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United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street Building 201
Richmond, CA 94804

Date: **11/24/2020**

Subject: **Analytical Testing Results - Project R21S04**
WorkOrder **2011017**

From: **Peter Husby, Director**
EPA Region 9 Laboratory
EMD-3-1

To: **Alana Lee**
California Site Cleanup Section 3
SFD-7-3

Attached are the results from the analysis of samples from the **MEW OU1 FY2021 Vapor Intrusion Investigation** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Audrey Johnson at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

Volatile Organic Compounds by GC/MS

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2011017**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 11/24/20 14:53
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
Classics-MH1-2ft-4d-R	2011017-01	Radiello 130	11/06/20 15:00	11/11/20 12:08
Classics-MH3-2ft-4d	2011017-03	Radiello 130	11/06/20 15:38	11/11/20 12:08
Classics-MH4-2ft-4d	2011017-04	Radiello 130	11/06/20 15:45	11/11/20 12:08
Classics-A18-SC-1ft-7d	2011017-05	Radiello 130	11/09/20 15:48	11/11/20 12:08
Classics-A19-SC-1ft-7d	2011017-06	Radiello 130	11/09/20 15:50	11/11/20 12:08
Classics-B20-SC-1ft-7d	2011017-07	Radiello 130	11/09/20 15:52	11/11/20 12:08
Classics-B21-SC-1ft-7d-R	2011017-08	Radiello 130	11/09/20 15:54	11/11/20 12:08
Classics-C22-SC-1ft-7d	2011017-09	Radiello 130	11/09/20 15:57	11/11/20 12:08
Classics-C23-SC-1ft-7d	2011017-10	Radiello 130	11/09/20 15:59	11/11/20 12:08
Classics-D24-SC-1ft-7d	2011017-11	Radiello 130	11/09/20 16:02	11/11/20 12:08
Classics-D24-SC-1ft-7d-Dup	2011017-12	Radiello 130	11/09/20 16:02	11/11/20 12:08
Classics-D25-SC-1ft-7d	2011017-13	Radiello 130	11/09/20 16:22	11/11/20 12:08
Classics-E26-SC-1ft-7d	2011017-14	Radiello 130	11/09/20 16:13	11/11/20 12:08
Classics-E27-SC-1ft-7d-R	2011017-15	Radiello 130	11/09/20 16:16	11/11/20 12:08
Classics-F28-SC-1ft-7d	2011017-16	Radiello 130	11/09/20 16:18	11/11/20 12:08
Classics-F29-SC-1ft-7d	2011017-17	Radiello 130	11/09/20 16:20	11/11/20 12:08
Classics-G30-SC-1ft-7d	2011017-18	Radiello 130	11/09/20 16:25	11/11/20 12:08
Classics-G31-SC-1ft-7d	2011017-19	Radiello 130	11/09/20 16:27	11/11/20 12:08
Classics-H33-SC-1ft-7d	2011017-20	Radiello 130	11/09/20 15:35	11/11/20 12:08
Classics-H33-SC-1ft-7d-Dup	2011017-21	Radiello 130	11/09/20 15:35	11/11/20 12:08
Classics-J34-SC-1ft-7d	2011017-22	Radiello 130	11/09/20 15:44	11/11/20 12:08
Classics-J35-SC-1ft-7d	2011017-23	Radiello 130	11/09/20 15:46	11/11/20 12:08

Work Order 2011017

Sample Classics-MH2-2ft-4d-R (2011017-02) had adsobed water during sampling and a water layer formed in the solvent extract. Analysis was cancelled for that sample.

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Project Manager: Alana Lee
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Project: MEW OU1 FY2021 Vapor Intrusion Investigation

California Site Cleanup Section 3
75 Hawthorne Street
San Francisco CA, 94105

WorkOrder: 2011017
Reported: 11/24/20 14:53

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2011017-01									**Radiello 130 - Sampled: 11/06/20 15:00**
Sample ID: Classics-MH1-2ft-4d-R									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		4.4		0.22	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		10		0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		4.2		0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		130		0.27	"	"	"	"	Radiello D1
Chloroform		44		0.22	"	"	"	"	Radiello D1
Trichloroethene	RE1	930		4.9	"	"	"	11/18/20	Radiello D1
Tetrachloroethene		40		0.28	"	"	"	11/17/20	Radiello D1
Surrogate: Toluene-d8			86 %	*86-118%*		"	"	"	
Lab ID: 2011017-03									**Radiello 130 - Sampled: 11/06/20 15:38**
Sample ID: Classics-MH3-2ft-4d									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		ND	U	0.22	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		ND	U	0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	0.26	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	0.27	"	"	"	"	Radiello D1
Chloroform		3.6		0.22	"	"	"	"	Radiello D1
Trichloroethene		0.39		0.24	"	"	"	"	Radiello D1
Tetrachloroethene		0.77		0.28	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		"	"	"	
Lab ID: 2011017-04									**Radiello 130 - Sampled: 11/06/20 15:45**
Sample ID: Classics-MH4-2ft-4d									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		ND	U	0.22	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		ND	U	0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	0.26	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	0.27	"	"	"	"	Radiello D1
Chloroform		1.2		0.22	"	"	"	"	Radiello D1
Trichloroethene		ND	U	0.24	"	"	"	"	Radiello D1
Tetrachloroethene		ND	U	0.28	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		"	"	"	
Lab ID: 2011017-05									**Radiello 130 - Sampled: 11/09/20 15:48**
Sample ID: Classics-A18-SC-1ft-7d									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		0.99		0.13	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		1.4		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.98		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		19		0.16	"	"	"	"	Radiello D1
Chloroform		22		0.13	"	"	"	"	Radiello D1
Trichloroethene	RE1	97		1.4	"	"	"	11/18/20	Radiello D1
Tetrachloroethene		3.8		0.17	"	"	"	11/17/20	Radiello D1

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Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2011017**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 11/24/20 14:53
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2011017-05									**Radiello 130 - Sampled: 11/09/20 15:48**
Sample ID: Classics-A18-SC-1ft-7d						**Volatile Organic Compounds Collected on Passive Air Sampling Devices**			
Surrogate: Toluene-d8			88 %	*86-118%*		*B20K062*	*11/17/20*	*11/17/20*	
Lab ID: 2011017-06									**Radiello 130 - Sampled: 11/09/20 15:50**
Sample ID: Classics-A19-SC-1ft-7d						**Volatile Organic Compounds Collected on Passive Air Sampling Devices**			
1,1-Dichloroethene		0.81		0.13	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		1.1		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.88		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		15		0.16	"	"	"	"	Radiello D1
Chloroform		15		0.13	"	"	"	"	Radiello D1
Trichloroethene		57		0.14	"	"	"	"	Radiello D1
Tetrachloroethene		2.4		0.17	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		"	"	"	
Lab ID: 2011017-07									**Radiello 130 - Sampled: 11/09/20 15:52**
Sample ID: Classics-B20-SC-1ft-7d						**Volatile Organic Compounds Collected on Passive Air Sampling Devices**			
1,1-Dichloroethene		0.14		0.13	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		0.21		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.16		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		2.6		0.16	"	"	"	"	Radiello D1
Chloroform		8.9		0.13	"	"	"	"	Radiello D1
Trichloroethene		10		0.14	"	"	"	"	Radiello D1
Tetrachloroethene		0.41		0.17	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		"	"	"	
Lab ID: 2011017-08									**Radiello 130 - Sampled: 11/09/20 15:54**
Sample ID: Classics-B21-SC-1ft-7d-R						**Volatile Organic Compounds Collected on Passive Air Sampling Devices**			
1,1-Dichloroethene		4.2		0.13	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		8.2		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		4.0		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene	RE1	84		3.2	"	"	"	11/18/20	Radiello D1
Chloroform		38		0.13	"	"	"	11/17/20	Radiello D1
Trichloroethene	RE1	430		2.8	"	"	"	11/18/20	Radiello D1
Tetrachloroethene		25		0.17	"	"	"	11/17/20	Radiello D1
Surrogate: Toluene-d8			89 %	*86-118%*		"	"	"	
Lab ID: 2011017-09									**Radiello 130 - Sampled: 11/09/20 15:57**
Sample ID: Classics-C22-SC-1ft-7d						**Volatile Organic Compounds Collected on Passive Air Sampling Devices**			
1,1-Dichloroethene		2.9		0.13	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		4.0		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		2.9		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		55		0.16	"	"	"	"	Radiello D1
Chloroform		30		0.13	"	"	"	"	Radiello D1

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Project Manager: Alana Lee
Project Number: R21S04
Project: MEW OU1 FY2021 Vapor Intrusion Investigation

California Site Cleanup Section 3
75 Hawthorne Street
San Francisco CA, 94105

WorkOrder: 2011017
Reported: 11/24/20 14:53

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2011017-09									**Radiello 130 - Sampled: 11/09/20 15:57**
Sample ID: Classics-C22-SC-1ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
Trichloroethene	RE1	280		1.4	ug/m³ Air	B20K062	11/17/20	11/18/20	Radiello D1
Tetrachloroethene		10		0.17	"	"	"	11/17/20	Radiello D1
Surrogate: Toluene-d8			87 %	*86-118%*		″	″	″	
Lab ID: 2011017-10									**Radiello 130 - Sampled: 11/09/20 15:59**
Sample ID: Classics-C23-SC-1ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.85		0.13	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		1.2		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.96		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		17		0.16	"	"	"	"	Radiello D1
Chloroform		13		0.13	"	"	"	"	Radiello D1
Trichloroethene		64		0.14	"	"	"	"	Radiello D1
Tetrachloroethene		2.5		0.17	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			87 %	*86-118%*		″	″	″	
Lab ID: 2011017-11									**Radiello 130 - Sampled: 11/09/20 16:02**
Sample ID: Classics-D24-SC-1ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.48		0.13	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		0.68		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.54		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		9.5		0.16	"	"	"	"	Radiello D1
Chloroform		9.1		0.13	"	"	"	"	Radiello D1
Trichloroethene		36		0.14	"	"	"	"	Radiello D1
Tetrachloroethene		1.4		0.17	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			87 %	*86-118%*		″	″	″	
Lab ID: 2011017-12									**Radiello 130 - Sampled: 11/09/20 16:02**
Sample ID: Classics-D24-SC-1ft-7d-Dup									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.89		0.13	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		1.2		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.94		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		17		0.16	"	"	"	"	Radiello D1
Chloroform		15		0.13	"	"	"	"	Radiello D1
Trichloroethene		61		0.14	"	"	"	"	Radiello D1
Tetrachloroethene		2.4		0.17	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		″	″	″	
Lab ID: 2011017-13									**Radiello 130 - Sampled: 11/09/20 16:22**
Sample ID: Classics-D25-SC-1ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		1.6		0.13	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		2.3		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		1.6		0.16	"	"	"	"	Radiello D1

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Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 11/24/20 14:53
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2011017-13									**Radiello 130 - Sampled: 11/09/20 16:22**
Sample ID: Classics-D25-SC-1ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
cis-1,2-Dichloroethene		32		0.16	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
Chloroform		23		0.13	"	"	"	"	Radiello D1
Trichloroethene	RE1	160		1.4	"	"	"	11/18/20	Radiello D1
Tetrachloroethene		5.7		0.17	"	"	"	11/17/20	Radiello D1
Surrogate: Toluene-d8			87 %	*86-118%*		"	"	"	
Lab ID: 2011017-14									**Radiello 130 - Sampled: 11/09/20 16:13**
Sample ID: Classics-E26-SC-1ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		1.8		0.13	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		2.4		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		1.8		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		33		0.16	"	"	"	"	Radiello D1
Chloroform		26		0.13	"	"	"	"	Radiello D1
Trichloroethene	RE1	140		1.4	"	"	"	11/18/20	Radiello D1
Tetrachloroethene		4.7		0.17	"	"	"	11/17/20	Radiello D1
Surrogate: Toluene-d8			87 %	*86-118%*		"	"	"	
Lab ID: 2011017-15									**Radiello 130 - Sampled: 11/09/20 16:16**
Sample ID: Classics-E27-SC-1ft-7d-R									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.52		0.13	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		0.77		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.58		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		11		0.16	"	"	"	"	Radiello D1
Chloroform		5.9		0.13	"	"	"	"	Radiello D1
Trichloroethene		36		0.14	"	"	"	"	Radiello D1
Tetrachloroethene		1.4		0.17	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		"	"	"	
Lab ID: 2011017-16									**Radiello 130 - Sampled: 11/09/20 16:18**
Sample ID: Classics-F28-SC-1ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.13		0.13	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		0.21		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.16		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		2.8		0.16	"	"	"	"	Radiello D1
Chloroform		9.1		0.13	"	"	"	"	Radiello D1
Trichloroethene		15		0.14	"	"	"	"	Radiello D1
Tetrachloroethene		0.43		0.17	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		"	"	"	
Lab ID: 2011017-17									**Radiello 130 - Sampled: 11/09/20 16:20**
Sample ID: Classics-F29-SC-1ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		1.0		0.13	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1

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Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2011017-17									**Radiello 130 - Sampled: 11/09/20 16:20**
Sample ID: Classics-F29-SC-1ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
trans-1,2-Dichloroethene		1.4		0.16	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
1,1-Dichloroethane		1.1		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		20		0.16	"	"	"	"	Radiello D1
Chloroform		17		0.13	"	"	"	"	Radiello D1
Trichloroethene		70		0.14	"	"	"	"	Radiello D1
Tetrachloroethene		2.7		0.17	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			87 %	*86-118%*		"	"	"	
Lab ID: 2011017-18									**Radiello 130 - Sampled: 11/09/20 16:25**
Sample ID: Classics-G30-SC-1ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		1.3		0.13	ug/m³ Air	B20K062	11/17/20	11/17/20	Radiello D1
trans-1,2-Dichloroethene		1.8		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		1.4		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		26		0.16	"	"	"	"	Radiello D1
Chloroform		13		0.13	"	"	"	"	Radiello D1
Trichloroethene	RE1	110		1.4	"	"	"	11/18/20	Radiello D1
Tetrachloroethene		3.9		0.17	"	"	"	11/17/20	Radiello D1
Surrogate: Toluene-d8			89 %	*86-118%*		"	"	"	
Lab ID: 2011017-19									**Radiello 130 - Sampled: 11/09/20 16:27**
Sample ID: Classics-G31-SC-1ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		2.8		0.13	ug/m³ Air	B20K078	11/19/20	11/19/20	Radiello D1
trans-1,2-Dichloroethene		3.8		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		3.0		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		50		0.16	"	"	"	"	Radiello D1
Chloroform		36		0.13	"	"	"	"	Radiello D1
Trichloroethene	RE1	210		1.4	"	"	"	11/20/20	Radiello D1
Tetrachloroethene		8.5		0.17	"	"	"	11/19/20	Radiello D1
Surrogate: Toluene-d8			87 %	*86-118%*		"	"	"	
Lab ID: 2011017-20									**Radiello 130 - Sampled: 11/09/20 15:35**
Sample ID: Classics-H33-SC-1ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		2.4		0.13	ug/m³ Air	B20K078	11/19/20	11/19/20	Radiello D1
trans-1,2-Dichloroethene		3.2		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		2.6		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		42		0.16	"	"	"	"	Radiello D1
Chloroform		31		0.13	"	"	"	"	Radiello D1
Trichloroethene	RE1	170		1.4	"	"	"	11/20/20	Radiello D1
Tetrachloroethene		6.7		0.17	"	"	"	11/19/20	Radiello D1
Surrogate: Toluene-d8			87 %	*86-118%*		"	"	"	
Lab ID: 2011017-21									**Radiello 130 - Sampled: 11/09/20 15:35**

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Alana Lee
Project Number: R21S04
Project: MEW OU1 FY2021 Vapor Intrusion Investigation

California Site Cleanup Section 3
75 Hawthorne Street
San Francisco CA, 94105

WorkOrder: 2011017
Reported: 11/24/20 14:53

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2011017-21									**Radiello 130 - Sampled: 11/09/20 15:35**
Sample ID: Classics-H33-SC-1ft-7d-Dup									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		2.8		0.13	ug/m³ Air	B20K078	11/19/20	11/19/20	Radiello D1
trans-1,2-Dichloroethene		3.8		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		2.9		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		51		0.16	"	"	"	"	Radiello D1
Chloroform		33		0.13	"	"	"	"	Radiello D1
Trichloroethene	RE1	220		1.4	"	"	"	11/20/20	Radiello D1
Tetrachloroethene		8.6		0.17	"	"	"	11/19/20	Radiello D1
Surrogate: Toluene-d8			87 %	*86-118%*		"	"	"	
Lab ID: 2011017-22									**Radiello 130 - Sampled: 11/09/20 15:44**
Sample ID: Classics-J34-SC-1ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		2.5		0.13	ug/m³ Air	B20K078	11/19/20	11/19/20	Radiello D1
trans-1,2-Dichloroethene		4.1		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		2.5		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		51		0.16	"	"	"	"	Radiello D1
Chloroform		37		0.13	"	"	"	"	Radiello D1
Trichloroethene	RE1	220		1.4	"	"	"	11/20/20	Radiello D1
Tetrachloroethene		9.1		0.17	"	"	"	11/19/20	Radiello D1
Surrogate: Toluene-d8			86 %	*86-118%*		"	"	"	
Lab ID: 2011017-23									**Radiello 130 - Sampled: 11/09/20 15:46**
Sample ID: Classics-J35-SC-1ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.22		0.13	ug/m³ Air	B20K078	11/19/20	11/20/20	Radiello D1
trans-1,2-Dichloroethene		0.41		0.16	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.27		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		4.5		0.16	"	"	"	"	Radiello D1
Chloroform		7.2		0.13	"	"	"	"	Radiello D1
Trichloroethene		21		0.14	"	"	"	"	Radiello D1
Tetrachloroethene		0.98		0.17	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			89 %	*86-118%*		"	"	"	

United States Environmental Protection Agency
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Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2011017**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 11/24/20 14:53
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

Volatile Organic Compounds Collected on Passive Air Sampling Devices - Quality Control

EPA Region 9 Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B20K062 - Passive Air Sampler										
Blank (B20K062-BLK1)				Prepared & Analyzed: 11/17/20						
1,1-Dichloroethene	ND	0.13	ug/m³ Air							U
trans-1,2-Dichloroethene	ND	0.16	ug/m³ Air							U
1,1-Dichloroethane	ND	0.16	ug/m³ Air							U
cis-1,2-Dichloroethene	ND	0.16	ug/m³ Air							U
Chloroform	ND	0.13	ug/m³ Air							U
Trichloroethene	ND	0.14	ug/m³ Air							U
Tetrachloroethene	ND	0.17	ug/m³ Air							U
Surrogate: Toluene-d8	*874*		ug/m³ Air	*992*		*88*	*86-118*			
LCS (B20K062-BS1)				Prepared & Analyzed: 11/17/20						
1,1-Dichloroethene	10.5	0.13	ug/m³ Air	13.1		80	22-143			
trans-1,2-Dichloroethene	13.0	0.16	ug/m³ Air	16.0		81	35-133			
1,1-Dichloroethane	12.9	0.16	ug/m³ Air	15.7		82	43-140			
cis-1,2-Dichloroethene	13.0	0.16	ug/m³ Air	16.0		81	49-134			
Chloroform	10.8	0.13	ug/m³ Air	13.2		81	56-132			
Trichloroethene	12.0	0.14	ug/m³ Air	14.4		84	69-124			
Tetrachloroethene	13.5	0.17	ug/m³ Air	16.8		80	69-124			
Surrogate: Toluene-d8	*885*		ug/m³ Air	*992*		*89*	*86-118*			
LCS Dup (B20K062-BSD1)				Prepared & Analyzed: 11/17/20						
1,1-Dichloroethene	8.87	0.13	ug/m³ Air	13.1		68	22-143	17	62	
trans-1,2-Dichloroethene	10.9	0.16	ug/m³ Air	16.0		68	35-133	18	53	
1,1-Dichloroethane	10.9	0.16	ug/m³ Air	15.7		69	43-140	17	44	
cis-1,2-Dichloroethene	11.1	0.16	ug/m³ Air	16.0		69	49-134	16	39	
Chloroform	9.26	0.13	ug/m³ Air	13.2		70	56-132	15	41	
Trichloroethene	10.2	0.14	ug/m³ Air	14.4		71	69-124	16	20	
Tetrachloroethene	11.7	0.17	ug/m³ Air	16.8		69	69-124	14	20	
Surrogate: Toluene-d8	*883*		ug/m³ Air	*992*		*89*	*86-118*			

United States Environmental Protection Agency
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Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2011017**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 11/24/20 14:53
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

Volatile Organic Compounds Collected on Passive Air Sampling Devices - Quality Control

EPA Region 9 Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B20K078 - Passive Air Sampler										
Blank (B20K078-BLK1)				Prepared & Analyzed: 11/19/20						
1,1-Dichloroethene	ND	0.13	ug/m³ Air							U
trans-1,2-Dichloroethene	ND	0.16	ug/m³ Air							U
1,1-Dichloroethane	ND	0.16	ug/m³ Air							U
cis-1,2-Dichloroethene	ND	0.16	ug/m³ Air							U
Chloroform	ND	0.13	ug/m³ Air							U
Trichloroethene	ND	0.14	ug/m³ Air							U
Tetrachloroethene	ND	0.17	ug/m³ Air							U
Surrogate: Toluene-d8	*870*		ug/m³ Air	*992*		*88*	*86-118*			
LCS (B20K078-BS1)				Prepared & Analyzed: 11/19/20						
1,1-Dichloroethene	8.47	0.13	ug/m³ Air	13.1		65	22-143			
trans-1,2-Dichloroethene	10.8	0.16	ug/m³ Air	16.0		68	35-133			
1,1-Dichloroethane	11.0	0.16	ug/m³ Air	15.7		70	43-140			
cis-1,2-Dichloroethene	11.4	0.16	ug/m³ Air	16.0		71	49-134			
Chloroform	9.77	0.13	ug/m³ Air	13.2		74	56-132			
Trichloroethene	11.5	0.14	ug/m³ Air	14.4		80	69-124			
Toluene	10.3	0.13	ug/m³ Air	13.4		77	77-111			
Tetrachloroethene	13.9	0.17	ug/m³ Air	16.8		83	69-124			
Surrogate: Toluene-d8	*879*		ug/m³ Air	*992*		*89*	*86-118*			
LCS Dup (B20K078-BSD1)				Prepared & Analyzed: 11/19/20						
1,1-Dichloroethene	10.4	0.13	ug/m³ Air	13.1		80	22-143	21	62	
trans-1,2-Dichloroethene	13.2	0.16	ug/m³ Air	16.0		83	35-133	20	53	
1,1-Dichloroethane	13.6	0.16	ug/m³ Air	15.7		86	43-140	21	44	
cis-1,2-Dichloroethene	13.7	0.16	ug/m³ Air	16.0		86	49-134	18	39	
Chloroform	11.7	0.13	ug/m³ Air	13.2		88	56-132	18	41	
Trichloroethene	12.8	0.14	ug/m³ Air	14.4		89	69-124	10	20	
Toluene	10.9	0.13	ug/m³ Air	13.4		81	77-111	5	19	
Tetrachloroethene	14.4	0.17	ug/m³ Air	16.8		85	69-124	3	20	
Surrogate: Toluene-d8	*882*		ug/m³ Air	*992*		*89*	*86-118*			

United States Environmental Protection Agency
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Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2011017**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 11/24/20 14:53
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

Volatile Organic Compounds Collected on Passive Air Sampling Devices - Quality Control

EPA Region 9 Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch S20K077 - B20K054										
Instrument Blank (S20K077-IBL1)				Prepared & Analyzed: 11/18/20						
1,1-Dichloroethene	ND	0.0	ug/L							U
trans-1,2-Dichloroethene	ND	0.0	ug/L							U
1,1-Dichloroethane	ND	0.0	ug/L							U
cis-1,2-Dichloroethene	ND	0.0	ug/L							U
Chloroform	ND	0.0	ug/L							U
Trichloroethene	ND	0.0	ug/L							U
Tetrachloroethene	ND	0.0	ug/L							U
Surrogate: Toluene-d8	*4280*		ug/L	*200000*		*2*	*86-118*			

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Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2011017**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 11/24/20 14:53
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

Qualifiers and Comments

J The reported result for this analyte should be considered an estimated value.

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
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Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2011017**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 11/24/20 14:53
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

Sample Receiving: Samples disinfected using 2% bleach TD 11/12/20

The CS2 extract sample for Classics-MH2-2ft-4d-R (2011017-02) has a water layer. Analysis cancelled for that sample. Alana Lee notified (see attached email). -- rjb 11/17/20

WORK ORDER

Printed: 11/12/2020 8:42:00AM

2011017

EPA Region 9 Laboratory

Client: **California Site Cleanup Section 3**
Project: **MEW OU1 FY2021 Vapor Intrusion Investigation**
Project Number: **R21S04**

Report To:
California Site Cleanup Section 3
Alana Lee
75 Hawthorne Street
San Francisco, CA 94105
Phone: (415) 972-3141
Fax: (415) 947-3526

Project Contact
California Site Cleanup Section 3
Alana Lee
75 Hawthorne Street
San Francisco, CA 94105
Phone :(415) 972-3141
Fax: (415) 947-3526

Shipping Containers	Description	Temp C	Custody Seals?	Containers Intact?	Labels COC Agree?	Preservation Confirmed?	Received on Ice?	Comments
Box 1	Modified COVID-19	18	No	Yes	Yes	No	No	

Date Due:	11/25/20 17:00 (14 day TAT)	SDG:	20316C
Received By:	Ziyad Rajabi	Date Received:	11/11/20 12:08
Logged In By:	Tatyana Dadiomov	Date Logged In:	11/11/20 13:54

Analysis	Hold Time Expires	Comments
2011017-01 Classics-MH1-2ft-4d-R [Radiello 130] Sampled 11/06/20 15:00 (GMT-08:00) Pacific Time (US &		**Y883Q**
VOCs, Passive Samplers	05/05/21	check COC for requested analytes
2011017-02 Classics-MH2-2ft-4d-R [Radiello 130] Sampled 11/06/20 15:05 (GMT-08:00) Pacific Time (US &		**Y884Q**
VOCs, Passive Samplers	05/05/21	check COC for requested analytes
2011017-03 Classics-MH3-2ft-4d [Radiello 130] Sampled 11/06/20 15:38 (GMT-08:00) Pacific Time (US &		**Y885Q**
VOCs, Passive Samplers	05/05/21	check COC for requested analytes
2011017-04 Classics-MH4-2ft-4d [Radiello 130] Sampled 11/06/20 15:45 (GMT-08:00) Pacific Time (US &		**Y886Q**
VOCs, Passive Samplers	05/05/21	check COC for requested analytes
2011017-05 Classics-A18-SC-1ft-7d [Radiello 130] Sampled 11/09/20 15:48 (GMT-08:00) Pacific Time (US &		**I289U**
VOCs, Passive Samplers	05/08/21	check COC for requested analytes
2011017-06 Classics-A19-SC-1ft-7d [Radiello 130] Sampled 11/09/20 15:50 (GMT-08:00) Pacific Time (US &		**I290U**
VOCs, Passive Samplers	05/08/21	check COC for requested analytes

WORK ORDER

Printed: 11/12/2020 8:42:00AM

2011017

EPA Region 9 Laboratory

Client: California Site Cleanup Section 3 **Project Number:** R21S04
Project: MEW OU1 FY2021 Vapor Intrusion Investigation

Analysis	Hold Time Expires	Comments

Analysis	Expires	Comments

2011017-07 Classics-B20-SC-1ft-7d [Radiello 130] Sampled 11/09/20 15:52 (GMT-08:00) Pacific Time (US & I291U

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-08 Classics-B21-SC-1ft-7d-R [Radiello 130] Sampled 11/09/20 15:54 (GMT-08:00) Pacific Time (US & I292U

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-09 Classics-C22-SC-1ft-7d [Radiello 130] Sampled 11/09/20 15:57 (GMT-08:00) Pacific Time (US & I293U

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-10 Classics-C23-SC-1ft-7d [Radiello 130] Sampled 11/09/20 15:59 (GMT-08:00) Pacific Time (US & I294U

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-11 Classics-D24-SC-1ft-7d [Radiello 130] Sampled 11/09/20 16:02 (GMT-08:00) Pacific Time (US & I295U

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-12 Classics-D24-SC-1ft-7d-Dup [Radiello 130] Sampled 11/09/20 16:02 (GMT-08:00) Pacific Time (US & I296U

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-13 Classics-D25-SC-1ft-7d [Radiello 130] Sampled 11/09/20 16:22 (GMT-08:00) Pacific Time (US & I297U

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-14 Classics-E26-SC-1ft-7d [Radiello 130] Sampled 11/09/20 16:13 (GMT-08:00) Pacific Time (US & I298U

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-15 Classics-E27-SC-1ft-7d-R [Radiello 130] Sampled 11/09/20 16:16 (GMT-08:00) Pacific Time (US & I299U

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

WORK ORDER

Printed: 11/12/2020 8:42:00AM

2011017

EPA Region 9 Laboratory

Client: California Site Cleanup Section 3 **Project Number:** R21S04
Project: MEW OU1 FY2021 Vapor Intrusion Investigation

Analysis	Hold Time Expires	Comments

Analysis	Expires	Comments

2011017-16 Classics-F28-SC-1ft-7d [Radiello 130] Sampled 11/09/20 16:18 (GMT-08:00) Pacific Time (US & **I300U**

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-17 Classics-F29-SC-1ft-7d [Radiello 130] Sampled 11/09/20 16:20 (GMT-08:00) Pacific Time (US & **I301U**

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-18 Classics-G30-SC-1ft-7d [Radiello 130] Sampled 11/09/20 16:25 (GMT-08:00) Pacific Time (US & **I302U**

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-19 Classics-G31-SC-1ft-7d [Radiello 130] Sampled 11/09/20 16:27 (GMT-08:00) Pacific Time (US & **I303U**

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-20 Classics-H33-SC-1ft-7d [Radiello 130] Sampled 11/09/20 15:35 (GMT-08:00) Pacific Time (US & **I304U**

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-21 Classics-H33-SC-1ft-7d-Dup [Radiello 130] Sampled 11/09/20 15:35 (GMT-08:00) Pacific Time (US & **I305U**

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-22 Classics-J34-SC-1ft-7d [Radiello 130] Sampled 11/09/20 15:44 (GMT-08:00) Pacific Time (US & **I306U**

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

2011017-23 Classics-J35-SC-1ft-7d [Radiello 130] Sampled 11/09/20 15:46 (GMT-08:00) Pacific Time (US & **L976I**

VOCs, Passive Samplers	05/08/21	check COC for requested analytes

Reviewed By Date

Bauer, Richard

From: Bauer, Richard
Sent: Tuesday, November 17, 2020 2:41 PM
To: Lee, Alana
Subject: Another wet one
Attachments: 2011017-02c.jpg; 2011017-02b.jpg; 2011017-02.jpg

Another Radiello from the delivery last week yielded a bunch of water upon extraction. Sample Classics-MH2-2ft-4d-R (2011017-02). I have cancelled analysis.

Richard Bauer
US EPA Region 9 Laboratory
1337 South 46th Street, Building 201
Richmond, CA 94804
(510) 412-2312

From: Dadiomov, Tatyana <Tatyana.Dadiomov@icf.com>
Sent: Tuesday, November 17, 2020 1:34 PM
To: Bauer, Richard <Bauer.Richard@epa.gov>; Rajabi, Ziyad <ziyad.rajabi@icf.com>
Cc: O'Brien, Kathy <Kathy.O'Brien@icf.com>
Subject: Re: radiello WO 2011015; 2011017

Hi,

one more WO 2011017-02

From: Bauer, Richard <Bauer.Richard@epa.gov>
Sent: Thursday, November 12, 2020 11:44 AM
To: Rajabi, Ziyad <Ziyad.Rajabi@icf.com>; Dadiomov, Tatyana <Tatyana.Dadiomov@icf.com>
Cc: O'Brien, Kathy <Kathy.O'Brien@icf.com>
Subject: RE: radiello WO 2011015

Yes cancel that samples and let me know if there are others that have this problem.

Thanks

Richard Bauer
US EPA Region 9 Laboratory
1337 South 46th Street, Building 201
Richmond, CA 94804
(510) 412-2312

-----Original Message-----
From: Rajabi, Ziyad <Ziyad.Rajabi@icf.com>

Sent: Thursday, November 12, 2020 10:48 AM
To: Dadiomov, Tatyana <Tatyana.Dadiomov@icf.com>
Cc: Bauer, Richard <Bauer.Richard@epa.gov>; O'Brien, Kathy <Kathy.O'Brien@icf.com>
Subject: Re: radiello WO 2011015

That's definitely water! Is that the only sample from the WO or were there others?

Rich, we should cancel analysis on this sample. Do you concur?

Thanks

Ziyad Rajabi

ICF International

(510) 412-2390

_____
From: Dadiomov, Tatyana <Tatyana.Dadiomov@icf.com>
Sent: Thursday, November 12, 2020 10:45 AM
To: Rajabi, Ziyad
Cc: Bauer, Richard; O'Brien, Kathy
Subject: Re: radiello WO 2011015

_____
From: Rajabi, Ziyad <Ziyad.Rajabi@icf.com>
Sent: Thursday, November 12, 2020 10:37 AM
To: Dadiomov, Tatyana <Tatyana.Dadiomov@icf.com>
Cc: Bauer, Richard <Bauer.Richard@epa.gov>; O'Brien, Kathy <Kathy.O'Brien@icf.com>
Subject: Re: radiello WO 2011015

Hi Tatyana,

Can you see if there is a second layer?

Please set the tube aside for now and make a note in the MMO field. I'll take a look tomorrow and we can decide with Rich's input.

Thanks

Ziyad Rajabi

ICF International

(510) 412-2390

_____
From: Dadiomov, Tatyana <Tatyana.Dadiomov@icf.com>
Sent: Thursday, November 12, 2020 10:33 AM
To: Rajabi, Ziyad
Cc: Bauer, Richard; O'Brien, Kathy

Subject: radiello WO 2011015

Hi Ziyad,

While extracting the Radiellos for work order 2011015 the normal 2.0 mL of carbon disulfide could not be added to sample -14. A lesser amount of CS2 (1.3mL) was added to these tubes because the tubes filled up and there was no more room.
I believe that there was water inside the metal mesh screens which was not visible upon inspection. This has resulted in sample extracts that contain a significant amount of water.
Please let me know if you would like to analyze the water containing extract or if you need any more information regarding this matter.

U.S. Environmental Protection Agency

CHAIN OF CUSTODY RECORD

EPA REGION 9
75 Hawthorne Street
San Francisco, California 94105

Project / Case Number: R21S04 MEW (M6) OU1

FY21 MEW OU1 Vapor Intrusion and Sewer Pathway

EPA Project Manager contact: Alana Lee, 415-972-3141 Lee.Alana@epa.gov

Laboratory: EPA R9 Richmond

Samplers: *Ray Chavira / Michael Schulman*

Analysis: TCE, cis & trans 1,2-DCE, PCE, 1,1 DCE, 1,1-DCA, chloroform (Preliminary TCE 10 d TAT requested)

Start Date End Date	Start Time/ End/Time	Matrix	Comp	Grab	EPA ID Number	Unique ID	RAD130 - # Containers	AVG (beg / end) Temp - F	AVG (beg / end) Temp - F	TCE Screen -µg/m^3 if available	
11/02/2020 11/09/2020	09:40 16:18	AIR	X		Classics-F28-SC-1ft-7d	I300U	1	68	68	30	Moist in SC / dry on pick up
11/02/2020 11/09/2020	09:43 16:20	AIR	X		Classics-F29-SC-1ft-7d	I301U	1	68	68	<50	
11/02/2020 11/09/2020	09:46 16:25	AIR	X		Classics-G30-SC-1ft-7d	I302U	1	68	68	<50	
11/02/2020 11/09/2020	09:49 16:27	AIR	X		Classics-G31-SC-1ft-7d	I303U	1	68	68	50	Very moist in SC / dry on pick up
11/02/2020 11/09/2020	09:54 15:35	AIR	X		Classics-H33-SC-1ft-7d	I304U	1	68	68	5-400	
11/02/2020 11/09/2020	09:54 15:35	AIR	X		Classics-H33-SC-1ft-7d-Dup	I305U	1	68	68	5-400	
11/02/2020 11/09/2020	09:57 15:44	AIR	X		Classics-J34-SC-1ft-7d	I306U	1	68	68	75	
11/02/2020 11/09/2020	09:59 15:46	AIR	X		Classics-J35-SC-1ft-7d	L976I	1	68	68	<10	

11/9/2020

Relinquished by: (Signature)	Date/Time	Received by: (Signature) Date/Time	Relinquished by: (Signature)	Date/Time
Alana Lee	11/10/2020 1208	11-11-20 12:08p		

Received for Laboratory by: (Signature)	Date/Time	Temp	Seals Intact? (Y/N)	Conditions / Remarks
Ziyad Rajabi		18°C		

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U.S. Environmental Protection Agency

CHAIN OF CUSTODY RECORD

EPA REGION 9
75 Hawthorne Street
San Francisco, California 94105

Project / Case Number: R21S04
MEW (M6) OU1

FY21 MEW OU1 Vapor Intrusion and Sewer Pathway

EPA Project Manager contact:
Alana Lee, 415-972-3141 Lee.Alana@epa.gov

Laboratory:
EPA R9 Richmond

Samplers: *Ray Chavira / Michael Schulman*

Analysis: TCE, cis & trans 1,2-DCE, PCE, 1,1 DCE, 1,1-DCA, chloroform
(Preliminary TCE 10 d TAT requested)

Start Date End Date	Start Time/ End/Time	Matrix	Comp	Grab	EPA ID Number	Unique ID	RAD130 - # Containers	AVG (beg / end) Temp - F	AVG (beg / end) Temp - F	TCE Screen -µg/m^3 if available	
11/02/2020 11/06/2020	08:56 15:00	AIR	X		Classics-MH1-2ft-4d-R	Y883Q	1	68	68	300-600	
11/02/2020 11/06/2020	09:00 15:05	AIR	X		Classics-MH2-2ft-4d-R	Y884Q	1	68	68	600-1400	
11/02/2020 11/06/2020	09:02 15:38	AIR	X		Classics-MH3-2ft-4d	Y885Q	1	68	68	<10	
11/02/2020 11/06/2020	09:05 15:45	AIR	X		Classics-MH4-2ft-4d	Y886Q	1	68	68	<10	
11/02/2020 11/09/2020	09:10 15:48	AIR	X		Classics-A18-SC-1ft-7d	I289U	1	68	68	20	
11/02/2020 11/09/2020	09:12 15:50	AIR	X		Classics-A19-SC-1ft-7d	I290U	1	68	68	60-200	
11/02/2020 11/09/2020	09:15 15:52	AIR	X		Classics-B20-SC-1ft-7d	I291U	1	68	68	<10	moist in SC / dry on pick up
11/02/2020 11/09/2020	09:18 15:54	AIR	X		Classics-B21-SC-1ft-7d-R	I292U	1	68	68	200	wet on pickup
11/02/2020 11/09/2020	09:22 15:57	AIR	X		Classics-C22-SC-1ft-7d	I293U	1	68	68	800	moist in SC / dry on pick up
11/02/2020 11/09/2020	09:24 15:59	AIR	X		Classics-C23-SC-1ft7d	I294U	1	68	68	<5	
11/02/2020 11/09/2020	09:28 16:02	AIR	X		Classics-D24-SC-1ft-7d	I295U	1	68	68	<5	Base loose?
11/02/2020 11/09/2020	09:28 16:02	AIR	X		Classics-D24-SC-1ft-7d-Dup	I296U	1	68	68	<5	Duplicate
11/02/2020 11/09/2020	09:31 16:22	AIR	X		Classics-D25-SC-1ft-7d	I297U	1	68	68	<20	
11/02/2020 11/09/2020	09:35 16:13	AIR	X		Classics-E26-SC-1ft-7d	I298U	1	68	68	<10	
11/02/2020 11/09/2020	09:37 16:16	AIR	X		Classics-E27-SC-1ft-7d-R	I299U	1	68	68	<20	

Relinquished by: *(Signature)*	Date/Time	Received by: *(Signature)* Date/Time	Relinquished by: *(Signature)*	Date/Time
Alana Lee	11/11/2020 1208	11-11-20 12:08P		
Received for Laboratory by: *(Signature)*	Date/Time	Temp	Seals Intact? (Y/N)	Conditions / Remarks
Ziyad Rajabi		18°C		

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Cooler/Box/Env 1 of 1

1337 South 46th Street
Richmond, CA 94804

U.S. Environmental Protection Agency
Region 9 Richmond Laboratory

Sample Receipt Checklist

Note in WO memo any items outside acceptable limits.

Project No: R21S04 **Work Order No(s):** 2011015 / 2011016 / 2011017 **Date:** 11/11/20 **by** TD

CUSTODY SEALS Are Intact? ☐ Yes ☐ No ☒ N/A-none

Check if applies: ☐ External Seals ☐ Internal Seals ☐ Hand Delivered

TEMPERATURE 17.6 °C

Within Acceptable Range? (If preservation is "store cool at 4°C," use 0-6°C for acceptable range.) ☐ Yes ☐ No ☒ Ambient OK

Measured by: ☒ IR thermometer ☐ Probe thermometer inserted in provided temp. blank

☐ Provided Temp Blank was not used because

Check if applies: ☐ No ice present ☐ Insufficient/Melted Ice ☐ Tissue Received Frozen

☐ Still cooling (sampled today & iced) ☐ Delivery Delay ☐ Previously Frozen

SAMPLE CONTAINERS Are Intact? ☒ Yes ☐ No

Check if applies and identify sample IDs in comments:

☐ Bottle/Jar/Vial broken ☐ Cap broken or loose ☐ Insufficient sample amount

☐ Other

CHAIN OF CUSTODY

COC forms are present? ☒ Yes ☐ No

COC forms are consistent with sample labels? ☐ Yes ☒ No ☐ N/A-no COC form

Check if applies: ☐ Missing "relinquished by" signature

TAT and analyses match TDF or scheduling? ☒ Yes ☐ No

Check if applies: ☒ Preliminary Results 10 days ☐ Rush Request ☐ 7-day TAT

Samples are received within hold times? ☒ Yes ☐ No ☐ N/A-no hold times

Check if applies: ☐ Expires soon; notify analyst ☐ Expired

All shipping and sample containers are accounted for? ☒ Yes ☐ No

PRESERVATION / FILTRATION

Samples were filtered in field? ☐ Yes ☐ No ☒ N/A

Filtration is correctly identified on samples? ☐ Yes ☐ No ☒ N/A

Check if applies: ☐ Analyst to filter

Check if applies: ☐ Notify analyst to check for methyl mercury analysis and low-level mercury analysis by 1631

Samples were preserved in field? ☐ Yes ☐ No ☒ N/A

Check if applies: ☐ Analyst to preserve ☐ Sample Receiving to preserve (see page 2)

Preservation is correctly identified on samples? ☐ Yes ☐ No ☒ N/A

Field-preserved samples (excluding VOA vials for VOC analyses) have correct pH? ☐ Yes ☐ No ☒ N/A

Check if verified:

☐ Sulfide: pH >9 NaOH/Zinc acetate

☐ Cyanide: pH >12 NaOH

☐ Metals: pH <2 HNO_3

☐ Ferrous Iron: pH <2 HCl

☐ TOC/DOC: pH <2 H_2SO_4/H_3PO_4 (not HCl)

☐ Ammonia / Nitrate/Nitrite / TKN / Phosphorus: pH <2 H_2SO_4

☐ Other:

FOLLOW-UP / COMMENTS / UNUSUAL CHARACTERISTICS OBSERVED (for example, sample is pink):

See memo field comments

FORM #: Q016
REV #: 2
REV. DATE: 07/29/19

Exposure Time in Minutes

	Sample number	Retrieved Date (XX/XX/XXXX)	Retrieved Time	Deployed Date	Deployed Time	Minutes	Start temp C	End temp C	Avg temp K	Plate #
1	Classics-MH1-2ft-4d-R	11/6/2020	15:00	11/2/2020	8:56	6124	20.00	20.00	293.00	Y883Q
2	Classics-MH2-2ft-4d-R	11/6/2020	15:05	11/2/2020	9:00	6125	20.00	20.00	293.00	Y884Q
3	Classics-MH3-2ft-4d	11/6/2020	15:38	11/2/2020	9:02	6156	20.00	20.00	293.00	Y885Q
4	Classics-MH4-2ft-4d	11/6/2020	15:45	11/2/2020	9:05	6160	20.00	20.00	293.00	Y886Q
5	Classics-A18-SC-1ft-7d	11/9/2020	15:48	11/2/2020	9:10	10478	20.00	20.00	293.00	I289U
6	Classics-A19-SC-1ft-7d	11/9/2020	15:50	11/2/2020	9:12	10478	20.00	20.00	293.00	I290U
7	Classics-B20-SC-1ft-7d	11/9/2020	15:52	11/2/2020	9:15	10477	20.00	20.00	293.00	I291U
8	Classics-B21-SC-1ft-7d-R	11/9/2020	15:54	11/2/2020	9:18	10476	20.00	20.00	293.00	I292U
9	Classics-C22-SC-1ft-7d	11/9/2020	15:57	11/2/2020	9:22	10475	20.00	20.00	293.00	I293U
10	Classics-C23-SC-1ft-7d	11/9/2020	15:59	11/2/2020	9:24	10475	20.00	20.00	293.00	I294U
11	Classics-D24-SC-1ft-7d	11/9/2020	16:02	11/2/2020	9:28	10474	20.00	20.00	293.00	I295U
12	Classics-D24-SC-1ft-7d-Dup	11/9/2020	16:02	11/2/2020	9:28	10474	20.00	20.00	293.00	I296U
13	Classics-D25-SC-1ft-7d	11/9/2020	16:22	11/2/2020	9:31	10491	20.00	20.00	293.00	I297U
14	Classics-E26-SC-1ft-7d	11/9/2020	16:13	11/2/2020	9:35	10478	20.00	20.00	293.00	I298U
15	Classics-E27-SC-1ft-7d-R	11/9/2020	16:16	11/2/2020	9:37	10479	20.00	20.00	293.00	I299U
16	Classics-F28-SC-1ft-7d	11/9/2020	16:18	11/2/2020	9:40	10478	20.00	20.00	293.00	I300U
17	Classics-F29-SC-1ft-7d	11/9/2020	16:20	11/2/2020	9:43	10477	20.00	20.00	293.00	I301U
18	Classics-G30-SC-1ft-7d	11/9/2020	16:25	11/2/2020	9:46	10479	20.00	20.00	293.00	I302U
19	Classics-G31-SC-1ft-7d	11/9/2020	16:27	11/2/2020	9:49	10478	20.00	20.00	293.00	I303U
20	Classics-H33-SC-1ft-7d	11/9/2020	15:35	11/2/2020	9:54	10421	20.00	20.00	293.00	I304U
21	Classics-H33-SC-1ft-7d-Dup	11/9/2020	15:35	11/2/2020	9:54	10421	20.00	20.00	293.00	I305U
22	Classics-J34-SC-1ft-7d	11/9/2020	15:44	11/2/2020	9:57	10427	20.00	20.00	293.00	I306U
23	Classics-J35-SC-1ft-7d	11/9/2020	15:46	11/2/2020	9:59	10427	20.00	20.00	293.00	L976I

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BATCH

B20K062

Batch Date: 11/17/2020

Batch Matrix: Radiello 130

Batch Analyses:

VOCs, Passive Samplers

PREPARATION BENCH SHEET

B20K062

EPA Region 9 Laboratory

Project: R21S04

Printed: 11/18/2020 12:20:49PM

Matrix: Radiello 13 **Analysis: VOCs, Passive Sampler** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 2030067**

Lab Number	SampleName	Prepared	Initial (Tube)	Final (mL)	Source ID	Spike ID 1	ul Spike 1	ul Surrogate	Ext pH	Prepared by	Extraction Comments
2011016-26 A	6Sixty-F36-SC-1ft-7d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011016-27 A	6Sixty-F37-SC-1ft-7d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-01 A	Classics-MH1-2ft-4d-R	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-02 A	Classics-MH2-2ft-4d-R	11/17/20 06:31	1	1.5				50		TD	WET, CANCELLED
2011017-03 A	Classics-MH3-2ft-4d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-04 A	Classics-MH4-2ft-4d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-05 A	Classics-A18-SC-1ft-7d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-06 A	Classics-A19-SC-1ft-7d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-07 A	Classics-B20-SC-1ft-7d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-08 A	Classics-B21-SC-1ft-7d-R	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-09 A	Classics-C22-SC-1ft-7d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-10 A	Classics-C23-SC-1ft-7d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-11 A	Classics-D24-SC-1ft-7d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-12 A	Classics-D24-SC-1ft-7d-Dup	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-13 A	Classics-D25-SC-1ft-7d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-14 A	Classics-E26-SC-1ft-7d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes

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PREPARATION BENCH SHEET

B20K062

EPA Region 9 Laboratory

Project: R21S04

Printed: 11/18/2020 12:20:49PM

Matrix: Radiello 13 **Analysis: VOCs, Passive Sampler** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 2030067**

Lab Number	SampleName	Prepared	Initial (Tube)	Final (mL)	Source ID	Spike ID 1	ul Spike 1	ul Surrogate	Ext pH	Prepared by	Extraction Comments
2011017-15 A	Classics-E27-SC-1ft-7d-R	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-16 A	Classics-F28-SC-1ft-7d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-17 A	Classics-F29-SC-1ft-7d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
2011017-18 A	Classics-G30-SC-1ft-7d	11/17/20 06:31	1	2				50		TD	check COC for requested analytes
B20K062-BLK1	Blank	11/17/20 06:31	1	2				50		TD	
B20K062-BS1	LCS	11/17/20 06:31	1	2		2006155	5	50		TD	
B20K062-BSD1	LCS Dup	11/17/20 06:31	1	2		2006155	5	50		TD	
B20K062-MRL1	MRL Check	11/17/20 06:31	1	2		2047001	5	50		TD	

Batch Comments

Reagents

Reagent #	Description
2045009	passive air Radiello tubes
2046039	Carbon disulfide

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PREPARATION BENCH SHEET

B20K062

EPA Region 9 Laboratory

Project: R21S04

Printed: 11/18/2020 12:20:49PM

Matrix: Radiello 13 **Analysis: QC** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 2030067**

Lab Number	SampleName	Prepared	Initial (Tube)	Final (mL)	Source ID	Spike ID 1	ul Spike 1	ul Surrogate	Ext pH	Prepared by	Extraction Comments

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BATCH

B20K078

Batch Date: 11/19/2020

Batch Matrix: Radiello 130

Batch Analyses:

VOCs, Passive Samplers

PREPARATION BENCH SHEET

B20K078

EPA Region 9 Laboratory

Project: R21S04

Printed: 11/23/2020 12:46:09PM

Matrix: Radiello 13 **Analysis: VOCs, Passive Sampler** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 2030067**

Lab Number	SampleName	Prepared	Initial (Tube)	Final (mL)	Source ID	Spike ID 1	ul Spike 1	ul Surrogate	Ext pH	Prepared by	Extraction Comments
2011017-19 A	Classics-G31-SC-1ft-7d	11/19/20 06:38	1	2				50		TD	check COC for requested analytes
2011017-19RE1 A	Classics-G31-SC-1ft-7d	11/19/20 06:38	1	2				50		TD	Added 11/20/2020 by ZAR
2011017-20 A	Classics-H33-SC-1ft-7d	11/19/20 06:38	1	2				50		TD	check COC for requested analytes
2011017-20RE1 A	Classics-H33-SC-1ft-7d	11/19/20 06:38	1	2				50		TD	Added 11/20/2020 by ZAR
2011017-21 A	Classics-H33-SC-1ft-7d-Dup	11/19/20 06:38	1	2				50		TD	check COC for requested analytes
2011017-21RE1 A	Classics-H33-SC-1ft-7d-Dup	11/19/20 06:38	1	2				50		TD	Added 11/20/2020 by ZAR
2011017-22 A	Classics-J34-SC-1ft-7d	11/19/20 06:38	1	2				50		TD	check COC for requested analytes
2011017-22RE1 A	Classics-J34-SC-1ft-7d	11/19/20 06:38	1	2				50		TD	Added 11/20/2020 by ZAR
2011017-23 A	Classics-J35-SC-1ft-7d	11/19/20 06:38	1	2				50		TD	check COC for requested analytes
2011021-01 A	RES170-FR2-BZ-10d	11/19/20 06:38	1	2				50		TD	check COC for requested analytes
2011021-02 A	RES171-FR2-BZ-10d	11/19/20 06:38	1	2				50		TD	check COC for requested analytes
2011021-03 A	RES172-FR2-BZ-10d	11/19/20 06:38	1	2				50		TD	check COC for requested analytes
2011021-04 A	RES172-BR3-BZ-10d	11/19/20 06:38	1	2				50		TD	check COC for requested analytes
2011021-05 A	RES172-OUT-3d	11/19/20 06:38	1	2				50		TD	check COC for requested analytes
2011021-06 A	RES172-OUT-4d	11/19/20 06:38	1	2				50		TD	check COC for requested analytes
2011021-07 A	RES173-DR2-BZ-4d	11/19/20 06:38	1	2				50		TD	check COC for requested analytes

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PREPARATION BENCH SHEET

B20K078

EPA Region 9 Laboratory

Project: R21S04

Printed: 11/23/2020 12:46:09PM

Matrix: Radiello 13 **Analysis: VOCs, Passive Sampler** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 2030067**

Lab Number	SampleName	Prepared	Initial (Tube)	Final (mL)	Source ID	Spike ID 1	ul Spike 1	ul Surrogate	Ext pH	Prepared by	Extraction Comments
2011021-08 A	RES173-OUT-4d	11/19/20 06:38	1	2				50		TD	check COC for requested analytes
2011021-09 A	RES174-FR2-BZ-7 d	11/19/20 06:38	1	2				50		TD	check COC for requested analytes
B20K078-BLK1	Blank	11/19/20 06:38	1	2				50		TD	
B20K078-BS1	LCS	11/19/20 06:38	1	2		2006155	5	50		TD	
B20K078-BSD1	LCS Dup	11/19/20 06:38	1	2		2006155	5	50		TD	
B20K078-MRL1	MRL Check	11/19/20 06:38	1	2		2047001	5	50		TD	

Batch Comments

Reagents

Reagent #	Description
2045009	passive air Radiello tubes
2046039	Carbon disulfide

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Calibration

2008017

Calibration Date: 08/20/2020

Instrument: AG5975CV

Calibration Analyses:

VOCs, Passive Samplers

Response Factor Report AG5975C

Method Path : C:\MSDCHEM\1\RAVIOLI METHODS\2020\
Method File : 082020.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Fri Aug 21 08:33:54 2020
Response Via : Initial Calibration

Calibration Files
25 =08202003.D 10 =08202004.D 5 =08202005.D 1 =08202006.D .15 =08202007.D .05 =08202008.D

		Compound	25	10	5	1	.15	.05	Avg	%RSD
1)	I	2-Fluorotoluene	----------ISTD----------							
2)	T	1,1-Dichloroet...	0.177	0.257	0.188	0.218	0.198	0.160	0.200	16.98
3)	T	trans-1,2-Dich...	0.203	0.293	0.216	0.246	0.230	0.197	0.231	15.27
4)	T	1,1-Dichloroet...	0.248	0.362	0.267	0.311	0.292	0.244	0.287	15.50
5)	T	cis-1,2-Dichlo...	0.261	0.382	0.283	0.330	0.300	0.263	0.303	15.27
6)	T	Chloroform	0.278	0.400	0.292	0.331	0.296	0.265	0.310	15.85
7)	T	1,1,1-Trichlor...	0.299	0.435	0.318	0.360	0.309	0.301	0.337	15.77
8)	T	Carbon tetrach...	0.282	0.413	0.301	0.340	0.290	0.278	0.317	16.33
9)	T	Benzene	0.711	1.056	0.777	0.908	0.795		0.850	15.98
10)	T	1,2-Dichloroet...	0.261	0.384	0.284	0.334	0.292	0.265	0.303	15.61
11)	T	Trichloroethene	0.215	0.322	0.240	0.279	0.237	0.242	0.256	15.05
12)	S	Toluene-d8	0.787	1.215	0.934	1.084	0.887	0.967	0.979	15.43
13)	T	Toluene	0.928	1.442	1.122	1.350	1.176	1.468	1.248	16.80
14)	T	1,1,2-Trichlor...	0.226	0.342	0.256	0.293	0.245	0.270	0.272	15.00
15)	T	Tetrachloroethene	0.290	0.451	0.346	0.393	0.322	0.365	0.361	15.58
16)	T	Chlorobenzene	0.700	1.097	0.858	0.980	0.798	0.928	0.894	15.66
17)	T	1,1,1,2-Tetrac...	0.258	0.400	0.308	0.350	0.285	0.320	0.320	15.68
18)	T	Ethylbenzene	1.139	1.801	1.423	1.675	1.409	1.666	1.519	15.88
19)	T	m&p-Xylene	0.880	1.387	1.091	1.290	1.114	1.362	1.187	16.42
)	T	o-Xylene	0.966	1.527	1.195	1.370	1.145	1.407	1.268	16.09
)	T	1,1,2,2-Tetrac...	0.438	0.688	0.537	0.613	0.501	0.596	0.562	15.76
)	T	1,3,5-Trimethy...	1.036	1.660	1.300	1.468	1.209	1.427	1.350	16.12
)	T	1,2,4-Trimethy...	1.048	1.684	1.315	1.486	1.284	1.597	1.402	16.63
)	T	Naphthalene	1.642	2.698	2.149	2.427	2.006	2.375	2.216	16.65
)		2-Fluorotoluen...			0.487				0.487	0.00
)		1,1-Dichloroet...			0.104				0.104	0.00
)		trans-1,2-Dich...			0.128				0.128	0.00
)		1,1-Dichloroet...			0.148				0.148	0.00
)		cis-1,2-Dichlo...			0.159				0.159	0.00
)		Chloroform SCAN			0.172				0.172	0.00
)		1,1,1-Trichlor...			0.157				0.157	0.00
)		Carbon tetrach...			0.164				0.164	0.00
)		Benzene SCAN			0.432				0.432	0.00
)		1,2-Dichloroet...			0.160				0.160	0.00
)		Trichloroethen...			0.119				0.119	0.00
)		Toluene-d8 SCAN			0.477				0.477	0.00
)		Toluene SCAN			0.610				0.610	0.00
)		1,1,2-Trichlor...			0.137				0.137	0.00
)		Tetrachloroeth...			0.147				0.147	0.00
)		Chlorobenzene ...			0.417				0.417	0.00
)		1,1,1,2-Tetrac...			0.154				0.154	0.00
)		Ethylbenzene SCAN			1.112				1.112	0.00

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Response Factor Report AG5975C

Method Path : C:\MSDCHEM\1\RAVIOLI METHODS\2020\
Method File : 082020.M

43)	m&p-Xylene SCAN	1.112	1.112	0.00
44)	o-Xylene SCAN	0.595	0.595	0.00
45)	1,1,2,2-Tetrac...	0.290	0.290	0.00
46)	1,3,5-Trimethy...	0.627	0.627	0.00
47)	1,2,4-Trimethy...	0.642	0.642	0.00
48)	Naphthalene SCAN	0.971	0.971	0.00

(#) = Out of Range

Page 34 of 2009 20110017 DATA_PKG (Rev0).PDF 11/24/20 15:01:25

Table of Contents

Method Path : C:\MSDCHEM\1\RAVIOLI METHODS\2020\
Method File : 082020.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Fri Aug 21 08:33:54 2020
Response Via : Initial Calibration

Total Cpnds : 48

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	2-Fluorotoluene	-109	10.970	1.000	A	1	A	B
2	T	1,1-Dichloroethene	-61	3.090	0.282	A	1	A	B
3	T	trans-1,2-Dichloroethene	-61	4.396	0.401	A	1	A	B
4	T	1,1-Dichloroethane	-63	5.099	0.465	A	1	A	B
5	T	cis-1,2-Dichloroethene	-61	6.094	0.556	A	1	A	B
6	T	Chloroform	-83	6.664	0.607	A	1	A	B
7	T	1,1,1-Trichloroethane	-97	6.919	0.631	A	2	A	B
8	T	Carbon tetrachloride	-117	7.187	0.655	A	1	A	B
9	T	Benzene	-78	7.515	0.685	A	1	A	B
10	T	1,2-Dichloroethane	-62	7.552	0.688	A	1	A	B
11	T	Trichloroethene	-130	8.569	0.781	A	3	A	B
12	S	Toluene-d8	-98	10.477	0.955	A	1	A	B
13	T	Toluene	-91	10.571	0.964	A	1	A	B
14	T	1,1,2-Trichloroethane	-97	11.222	1.023	A	1	A	B
15	T	Tetrachloroethene	-166	11.421	1.041	A	1	A	B
16	T	Chlorobenzene	-112	12.757	1.163	A	1	A	B
17	T	1,1,1,2-Tetrachloroethane	-131	12.908	1.177	A	1	A	B
18	T	Ethylbenzene	-91	12.964	1.182	A	2	A	B
19	T	m&p-Xylene	-91	13.162	1.200	A	2	A	B
20	T	o-Xylene	-91	13.774	1.256	A	1	A	B
21	T	1,1,2,2-Tetrachloroethane	-83	14.873	1.356	A	1	A	B
22	T	1,3,5-Trimethylbenzene	-105	15.345	1.399	A	1	A	B
23	T	1,2,4-Trimethylbenzene	-105	15.896	1.449	A	1	A	B
24	T	Naphthalene	-128	17.903	1.632	A	1	A	B
25		2-Fluorotoluene SCAN	109	10.969	1.000	A	1	A	B
26		1,1-Dichloroethene SCAN	61	3.107	0.283	A	2	A	B
27		trans-1,2-Dichloroethene SCAN	61	4.401	0.401	A	2	A	B
28		1,1-Dichloroethane SCAN	63	5.104	0.465	A	2	A	B
29		cis-1,2-Dichloroethene SCAN	61	6.093	0.555	A	3	A	B
30		Chloroform SCAN	83	6.662	0.607	A	2	A	B
31		1,1,1-Trichloroethane SCAN	97	6.918	0.631	A	2	A	B
32		Carbon tetrachloride SCAN	117	7.185	0.655	A	3	A	B
33		Benzene SCAN	78	7.514	0.685	A	3	A	B
34		1,2-Dichloroethane SCAN	62	7.550	0.688	A	2	A	B
35		Trichloroethene SCAN	130	8.568	0.781	A	3	A	B
36		Toluene-d8 SCAN	98	10.475	0.955	A	1	A	B
37		Toluene SCAN	91	10.580	0.964	A	2	A	B
38		1,1,2-Trichloroethane SCAN	97	11.221	1.023	A	3	A	B
39		Tetrachloroethene SCAN	166	11.430	1.042	A	3	A	B
40		Chlorobenzene SCAN	112	12.764	1.164	A	3	A	B
41		1,1,1,2-Tetrachloroethane SCAN	131	12.907	1.177	A	3	A	B
42		Ethylbenzene SCAN	91	13.161	1.200	A	2	A	B
43		m&p-Xylene SCAN	91	13.161	1.200	A	3	A	B
44		o-Xylene SCAN	91	13.781	1.256	A	2	A	B
45		1,1,2,2-Tetrachloroethane SCAN	83	14.872	1.356	A	2	A	B
46		1,3,5-Trimethylbenzene SCAN	105	15.343	1.399	A	2	A	B
47		1,2,4-Trimethylbenzene SCAN	105	15.899	1.449	A	3	A	B
48		Naphthalene SCAN	128	17.901	1.632	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

082020.M Fri Aug 21 09:05:10 2020

CHEMSTATION AREA COUNT REPORT

AG5975C
S20H039-SCV1
2030074 5 mg/L
8/20/2020
Fri Aug 21 08:33:54 2020
TD

#	Name	L1	L2	L3	L4	L5	L6
1)	2-Fluorotoluene	648237	658265	673233	620555	687675	604968
2)	1,1-Dichloroethene	574530	337762	126761	27036	4078	970
3)	trans-1,2-Dichloroethene	656585	385140	145387	30539	4743	1192
4)	1,1-Dichloroethane	803642	475966	180029	38542	6017	1475
5)	cis-1,2-Dichloroethene	844386	502402	190553	41004	6181	1594
6)	Chloroform	899977	526532	196458	41060	6101	1606
7)	1,1,1-Trichloroethane	968878	573090	214003	44677	6374	1818
8)	Carbon tetrachloride	914170	543134	202678	42146	5978	1680
9)	Benzene	2304166	1390859	523170	112745	16396	3813
10)	1,2-Dichloroethane	846849	505651	191144	41424	6015	1603
11)	Trichloroethene	695334	423697	161743	34670	4884	1464
12)	Toluene-d8	2550057	1598935	629076	134499	18291	5849
13)	Toluene	3008786	1898928	755646	167580	24264	8880
14)	1,1,2-Trichloroethane	733249	449618	172328	36313	5063	1632
15)	Tetrachloroethene	940662	593500	232804	48775	6650	2206
16)	Chlorobenzene	2268821	1444139	577532	121629	16465	5616
17)	1,1,1,2-Tetrachloroethane	836326	527138	207134	43449	5876	1936
18)	Ethylbenzene	3692757	2370804	957968	207872	29078	10080
19)	m&p-Xylene	5704874	3652536	1468448	320098	45947	16478
20)	o-Xylene	3130122	2010115	804751	169989	23631	8511
21)	1,1,2,2-Tetrachloroethane	1420481	905676	361853	76025	10329	3604
22)	1,3,5-Trimethylbenzene	3358352	2186063	875077	182134	24949	8630
23)	1,2,4-Trimethylbenzene	3395311	2217101	885300	184398	26485	9662
24)	Naphthalene	5320470	3552389	1447043	301171	41384	14370

CHEMSTATION CONCENTRATION REPORT

AG5975C
S20H039-SCV1
2030074 5 mg/L
8/20/2020
Fri Aug 21 08:33:54 2020
TD

#	Name	L1	L2	L3	L4	L5	L6
1)	2-Fluorotoluene	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00
2)	1,1-Dichloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
3)	trans-1,2-Dichloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
4)	1,1-Dichloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
5)	cis-1,2-Dichloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
6)	Chloroform	25000.00	10000.00	5000.00	1000.00	150.00	50.00
7)	1,1,1-Trichloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
8)	Carbon tetrachloride	25000.00	10000.00	5000.00	1000.00	150.00	50.00
9)	Benzene	25000.00	10000.00	5000.00	1000.00	150.00	1.00
10)	1,2-Dichloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
11)	Trichloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
12)	Toluene-d8	25000.00	10000.00	5000.00	1000.00	150.00	50.00
13)	Toluene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
14)	1,1,2-Trichloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
15)	Tetrachloroethene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
16)	Chlorobenzene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
17)	1,1,1,2-Tetrachloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
18)	Ethylbenzene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
19)	m&p-Xylene	50000.00	20000.00	10000.00	2000.00	300.00	100.00
20)	o-Xylene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
21)	1,1,2,2-Tetrachloroethane	25000.00	10000.00	5000.00	1000.00	150.00	50.00
22)	1,3,5-Trimethylbenzene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
23)	1,2,4-Trimethylbenzene	25000.00	10000.00	5000.00	1000.00	150.00	50.00
24)	Naphthalene	25000.00	10000.00	5000.00	1000.00	150.00	50.00

SCV REPORT

Instrument Name: AG5975C
Sample Name: S20H039-SCV1
Misc Info: 2030074 5 mg/L
Date Acquired: 8/20/2020
QLast Update: Fri Aug 21 08:33:54 2020
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.970	5000	5000.00	100%	70	130	pass
2)	1,1-Dichloroethene	3.090	5000	4697.18	94%	70	130	pass
3)	trans-1,2-Dichloroethene	4.396	5000	4478.96	90%	70	130	pass
4)	1,1-Dichloroethane	5.099	5000	4344.30	87%	70	130	pass
5)	cis-1,2-Dichloroethene	6.094	5000	4362.57	87%	70	130	pass
6)	Chloroform	6.664	5000	4400.85	88%	70	130	pass
7)	1,1,1-Trichloroethane	6.919	5000	4361.45	87%	70	130	pass
8)	Carbon tetrachloride	7.187	5000	4380.95	88%	70	130	pass
9)	Benzene	7.515	5000	4224.52	84%	70	130	pass
10)	1,2-Dichloroethane	7.552	5000	4392.50	88%	70	130	pass
11)	Trichloroethene	8.569	5000	4348.96	87%	70	130	pass
12)	Toluene-d8	10.477	5000	4327.91	87%	70	130	pass
13)	Toluene	10.571	5000	4058.14	81%	70	130	pass
14)	1,1,2-Trichloroethane	11.222	5000	4266.80	85%	70	130	pass
15)	Tetrachloroethene	11.421	5000	4266.83	85%	70	130	pass
16)	Chlorobenzene	12.757	5000	4270.56	85%	70	130	pass
17)	1,1,1,2-Tetrachloroethane	12.908	5000	4294.60	86%	70	130	pass
18)	Ethylbenzene	12.964	5000	4143.40	83%	70	130	pass
19)	m&p-Xylene	13.162	10000	8119.44	81%	70	130	pass
20)	o-Xylene	13.774	5000	4160.72	83%	70	130	pass
21)	1,1,2,2-Tetrachloroethane	14.873	5000	4216.30	84%	70	130	pass
22)	1,3,5-Trimethylbenzene	15.345	5000	4177.31	84%	70	130	pass
23)	1,2,4-Trimethylbenzene	15.896	5000	4010.73	80%	70	130	pass
24)	Naphthalene	17.903	5000	4128.17	83%	70	130	pass

Response Factor Report AG5975C

Method Path : C:\MSDCHEM\1\RAVIOLI METHODS\2020\
Method File : 111620.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Mon Nov 16 10:20:51 2020
Response Via : Initial Calibration

Calibration Files
25 =08202003.D 10 =08202004.D 5 =11162003.D 1 =08202006.D .15 =08202007.D .05 =08202008.D

		Compound	25	10	5	1	.15	.05	Avg	%RSD
1)	I	2-Fluorotoluene	----------ISTD----------							
2)	T	1,1-Dichloroet...	0.177	0.257	0.188	0.218	0.198	0.160	0.200	16.98
3)	T	trans-1,2-Dich...	0.203	0.293	0.216	0.246	0.230	0.197	0.231	15.27
4)	T	1,1-Dichloroet...	0.248	0.362	0.267	0.311	0.292	0.244	0.287	15.50
5)	T	cis-1,2-Dichlo...	0.261	0.382	0.283	0.330	0.300	0.263	0.303	15.27
6)	T	Chloroform	0.278	0.400	0.292	0.331	0.296	0.265	0.310	15.85
7)	T	1,1,1-Trichlor...	0.299	0.435	0.318	0.360	0.309	0.301	0.337	15.77
8)	T	Carbon tetrach...	0.282	0.413	0.301	0.340	0.290	0.278	0.317	16.33
9)	T	Benzene	0.711	1.056	0.777	0.908	0.795		0.850	15.98
10)	T	1,2-Dichloroet...	0.261	0.384	0.284	0.334	0.292	0.265	0.303	15.61
11)	T	Trichloroethene	0.215	0.322	0.240	0.279	0.237	0.242	0.256	15.05
12)	S	Toluene-d8	0.787	1.215	0.934	1.084	0.887	0.967	0.979	15.43
13)	T	Toluene	0.928	1.442	1.122	1.350	1.176	1.468	1.248	16.80
14)	T	1,1,2-Trichlor...	0.226	0.342	0.256	0.293	0.245	0.270	0.272	15.00
15)	T	Tetrachloroethene	0.290	0.451	0.346	0.393	0.322	0.365	0.361	15.58
16)	T	Chlorobenzene	0.700	1.097	0.858	0.980	0.798	0.928	0.894	15.66
17)	T	1,1,1,2-Tetrac...	0.258	0.400	0.308	0.350	0.285	0.320	0.320	15.68
18)	T	Ethylbenzene	1.139	1.801	1.423	1.675	1.409	1.666	1.519	15.88
19)	T	m&p-Xylene	0.880	1.387	1.091	1.290	1.114	1.362	1.187	16.42
)	T	o-Xylene	0.966	1.527	1.195	1.370	1.145	1.407	1.268	16.09
)	T	1,1,2,2-Tetrac...	0.438	0.688	0.537	0.613	0.501	0.596	0.562	15.76
)	T	1,3,5-Trimethy...	1.036	1.660	1.300	1.468	1.209	1.427	1.350	16.12
)	T	1,2,4-Trimethy...	1.048	1.684	1.315	1.486	1.284	1.597	1.402	16.63
)	T	Naphthalene	1.642	2.698	2.149	2.427	2.006	2.375	2.216	16.65
)		2-Fluorotoluen...			0.487				0.487	0.00
)		1,1-Dichloroet...			0.104				0.104	0.00
)		trans-1,2-Dich...			0.128				0.128	0.00
)		1,1-Dichloroet...			0.148				0.148	0.00
)		cis-1,2-Dichlo...			0.159				0.159	0.00
)		Chloroform SCAN			0.172				0.172	0.00
)		1,1,1-Trichlor...			0.157				0.157	0.00
)		Carbon tetrach...			0.164				0.164	0.00
)		Benzene SCAN			0.432				0.432	0.00
)		1,2-Dichloroet...			0.160				0.160	0.00
)		Trichloroethen...			0.119				0.119	0.00
)		Toluene-d8 SCAN			0.477				0.477	0.00
)		Toluene SCAN			0.610				0.610	0.00
)		1,1,2-Trichlor...			0.137				0.137	0.00
)		Tetrachloroeth...			0.147				0.147	0.00
)		Chlorobenzene ...			0.417				0.417	0.00
)		1,1,1,2-Tetrac...			0.154				0.154	0.00
)		Ethylbenzene SCAN			1.112				1.112	0.00

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Response Factor Report AG5975C

Method Path : C:\MSDCHEM\1\RAVIOLI METHODS\2020\
Method File : 111620.M

43)	m&p-Xylene SCAN	1.112	1.112	0.00
44)	o-Xylene SCAN	0.595	0.595	0.00
45)	1,1,2,2-Tetrac...	0.290	0.290	0.00
46)	1,3,5-Trimethy...	0.627	0.627	0.00
47)	1,2,4-Trimethy...	0.642	0.642	0.00
48)	Naphthalene SCAN	0.971	0.971	0.00

(#) = Out of Range

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SEQUENCE

S20H039

Sequence Date: 08/19/2020

Instrument: AG5975CV

Sequence Analyses:

VOCs, Passive Samplers

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	ICAL	SEQUENCE #:	S20H039 08/20/20
BATCH #:		ANALYSIS:	VOA Passive Air.

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
DOCUMENTATION	ANALYST: Bench sheet(s) attached? REVIEWER: Bench sheet(s) reviewed?	✔			
	ANALYST: Sequence log(s) attached? REVIEWER: Sequence log(s) reviewed?		Y	Y	
	ANALYST: Every run has a PDF in LIMS? REVIEWER: Every PDF reviewed?		Y	Y	
INITIAL CALIBRATION	Date of Initial Calibration used: If applicable, note date of "Last Update" in Comments.	Fri Aug 21 08:33:54 2020			
	Initial Calibration ID (LIMS number):	2008017			
	ICAL within QC criteria?		Y	Y	
	SCV within QC criteria?		Y	Y	
INSTRUMENT / QC CHECKS	Tune or degradation checks within QC criteria?		Y	Y	
	CCV(s) within QC criteria?	✔			
	QLS(s) within QC criteria?	✔			
	CB(s) or storage blank(s) within QC criteria?	✔			
	Other instrument checks within QC criteria? Specify if applicable.	✔			
BATCH QCs	Method blanks < 1/2 QL?	✔			
	LCS(s) or SRM(s) within QC criteria?	✔			
	MSs/MSDs and/or DUPs within QC criteria?	✔			
	Other method-specific QCs within QC criteria? Specify if applicable.	✔			

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	ICAL	SEQUENCE #:	S20H039 08/20/20
BATCH #:		ANALYSIS:	VOA Passive Air.

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
IS / SS	Internal standards within QC criteria?	☐	Y	Y	
	Surrogates within QC criteria?	☑			
SAMPLE DATA	Were samples prepared & analyzed within holding time?	☑			
	If samples need to be re-run, were RE(s) made in LIMS?	☑			
	Do any samples need to be re-digested or re-extracted?	☑			
	Were all data qualifiers appropriately applied?	☑			
	Are problems, anomalies, discrepancies documented in LIMS? Specify if applicable.	☑			
MANUAL INT	Were manual integrations performed and documented? Specify if applicable.	☐	Y	Y	

APPROVALS	ANALYST INITIALS & DATE:	TD 08/21/20
	REVIEWED BY:	Rajabi, Ziyad Digitally signed by Rajabi, Ziyad Date: 2020.10.02 15:55:42 -07'00' SIGN HERE

COMMENTS

Custom analyte list.

Injection Log

Operator: TD
Directory: C:\msdchem\1\Ravioli Data\2020\082020\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	08202001.D	1	S20H039-IBL1		20 Aug 2020 14:53
2	08202002.D	1	S20H039-TUN1	BFB 2016028	20 Aug 2020 15:15
3	08202003.D	1	S20H039-CAL1	2030068 25 mg/L	20 Aug 2020 15:25
4	08202004.D	1	S20H039-CAL2	2030069 10 mg/L	20 Aug 2020 15:49
5	08202005.D	1	S20H039-CAL3	2030070 5 mg/L	20 Aug 2020 16:13
6	08202006.D	1	S20H039-CAL4	2030071 1 mg/L	20 Aug 2020 16:37
7	08202007.D	1	S20H039-CAL5	2030072 0.15 mg/L	20 Aug 2020 17:01
8	08202008.D	1	S20H039-CAL6	2030073 0.05 mg/L	20 Aug 2020 17:25
9	08202009.D	1	S20H039-SCV1	2030074 5 mg/L	20 Aug 2020 17:49

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\Ravioli Data\2020\082020\08202002.D
Tune Time : 20 Aug 2020 15:15

Daily Calibration File : C:\msdchem\1\Ravioli Data\2020\082020\08202005.D

File	Sample	Surrogate Recovery %	Internal Standard Responses
			673233
08202003.D			
	S20H039-CA	402*	648237
08202004.D			
	S20H039-CA	248*	658265
08202005.D			
	S20H039-CA	95	673233
08202006.D			
	S20H039-CA	22*	620555
08202007.D			
	S20H039-CA	3*	687675
08202008.D			
	S20H039-CA	1*	604968
08202009.D			
	S20H039-SC	87	757040

(fails) - fails 12hr time check * - fails criteria

Created: Fri Aug 21 08:36:04 2020 AG5975C

Analysis Sequence

S20H039

Project:
Analysis:

Instrument: AG5975CV **Calibration ID:** 2007003 Printed: 08/21/2020 9:17 am

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S20H039-IBL1	Instrument Blank	1	8/20/20 14:53		2030067	TD	08202001.D	
S20H039-TUN1	BFB	2	8/20/20 15:15	2016028		TD	08202002.D	
S20H039-CAL1	Cal Standard	3	8/20/20 15:25	2030068		TD	08202003.D	
S20H039-CAL2	Cal Standard	4	8/20/20 15:49	2030069		TD	08202004.D	
S20H039-CAL3	Cal Standard	5	8/20/20 16:13	2030070		TD	08202005.D	
S20H039-CAL4	Cal Standard	6	8/20/20 16:37	2030071		TD	08202006.D	
S20H039-CAL5	Cal Standard	7	8/20/20 17:01	2030072		TD	08202007.D	
S20H039-CAL6	Cal Standard	8	8/20/20 17:25	2030073		TD	08202008.D	
S20H039-SCV1	Secondary Cal Check	9	8/20/20 17:49	2030074		TD	08202009.D	

Sequence Comments

Reagents

Reagent # **Description**

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SEQUENCE DATA

S20H039

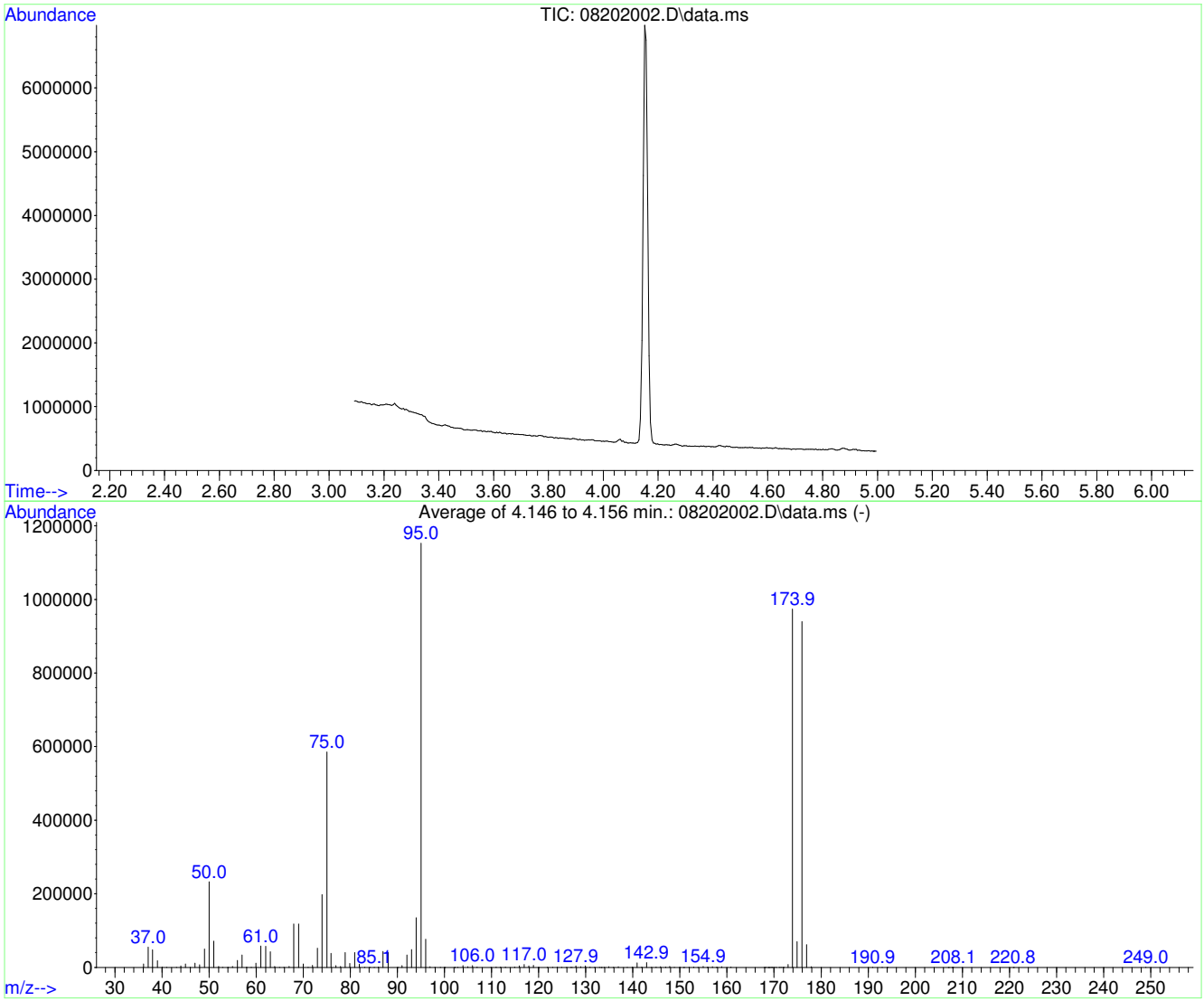
S20H039-TUN1

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202002.D
Acq On : 20 Aug 2020 15:15
Operator : TD
Sample : S20H039-TUN1
Misc : BFB 2016028
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: Ravioli.P

Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Fri Aug 21 08:33:54 2020



AutoFind: Scans 202, 203, 204; Background Corrected with Scan 195

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.2	232911	PASS
75	95	30	60	50.8	585813	PASS
95	95	100	100	100.0	1152511	PASS
96	95	5	9	6.6	76331	PASS
173	174	0.00	2	0.8	7673	PASS
174	95	50	120	84.5	973973	PASS
175	174	5	9	7.1	69584	PASS
176	174	95	101	96.5	939968	PASS
177	176	5	9	6.6	61843	PASS

Average of 4.146 to 4.156 min.: 08202002.D\data.ms
S20H039-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	9517	48.00	7027	58.95	258	70.00	9635
37.05	55357	49.00	49627	59.95	11406	71.05	479
38.00	47609	50.00	232911	61.00	58325	71.95	5719
39.00	17974	51.00	71652	62.00	57442	73.00	52114
40.05	890	52.00	2929	63.00	42288	74.00	197568
41.00	84	52.90	204	63.95	2952	75.00	585813
43.05	591	53.95	10	64.95	191	75.90	38507
44.00	4051	55.00	2848	65.90	492	76.95	4767
45.00	9535	56.00	18994	67.00	2390	77.90	2523
46.00	462	57.00	33861	68.00	117707	78.90	40464
47.00	11581	58.00	1082	69.00	118007	79.90	11132

Average of 4.146 to 4.156 min.: 08202002.D\data.ms
S20H039-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.90	40713	93.00	48144	104.95	1649	118.90	5720
81.90	8793	94.00	134819	105.95	4521	119.95	21
83.05	732	95.00	1.15251e+006	106.90	1216	121.85	370
84.15	72	96.00	76331	109.85	717	123.00	437
85.10	149	96.95	2145	110.95	1170	123.95	770
85.95	1075	97.95	88	111.90	907	124.90	464
86.95	43055	99.15	133	112.95	1255	125.95	523
88.00	40048	100.00	55	114.90	1351	126.85	416
90.10	85	102.10	50	115.90	4431	127.10	156
90.95	4717	102.85	287	116.95	7983	127.90	4060
92.00	33882	103.90	4876	117.90	4202	128.95	1897

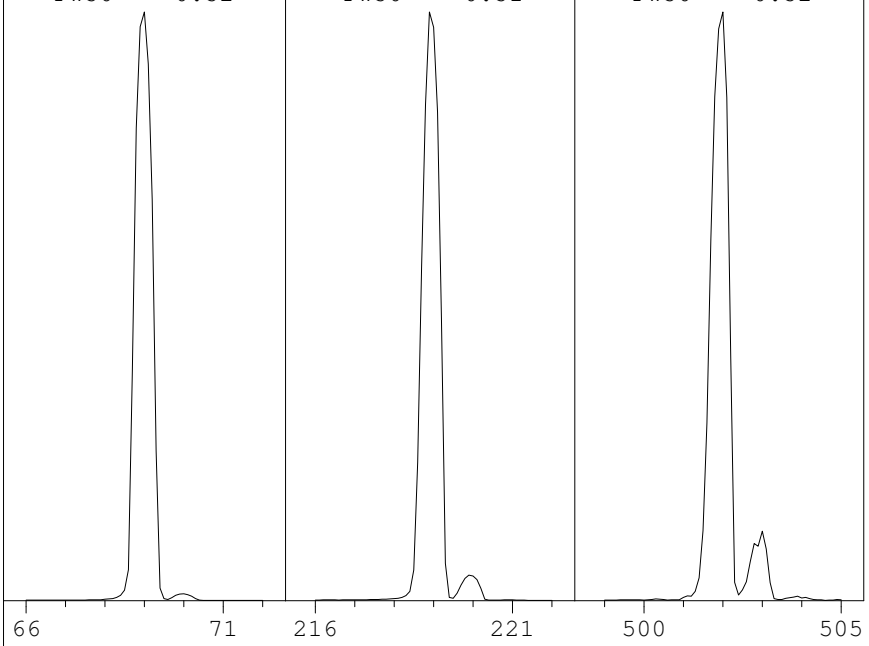
Average of 4.146 to 4.156 min.: 08202002.D\data.ms
S20H039-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.90	3885	140.90	12033	151.95	504	167.90	54
130.90	1497	141.90	1518	152.90	1027	168.30	122
131.90	167	142.90	12793	153.85	746	168.70	55
132.95	387	143.95	599	154.95	2637	169.00	53
133.30	58	144.95	1003	155.80	268	169.40	92
133.90	272	145.90	1611	156.00	223	169.65	299
134.90	2299	146.95	768	156.90	1924	170.00	126
135.85	523	147.85	2552	157.80	64	170.45	178
136.90	2136	148.85	764	157.95	190	171.15	456
138.85	513	149.95	1250	158.85	1548	171.50	129
139.90	1010	150.80	58	160.85	1010	171.90	508

Average of 4.146 to 4.156 min.: 08202002.D\data.ms
S20H039-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.10	525	207.80	62				
173.00	7673	208.10	189				
173.90	973973	220.80	62				
174.90	69584	249.00	155				
175.90	939968						
176.90	61843						
177.90	1588						
190.95	360						
192.95	216						
194.00	56						
207.00	38						

Mass	69.00	Mass	218.90	Mass	502.00
Ab	575143	Ab	388856	Ab	13189
Pw50	0.52	Pw50	0.51	Pw50	0.52

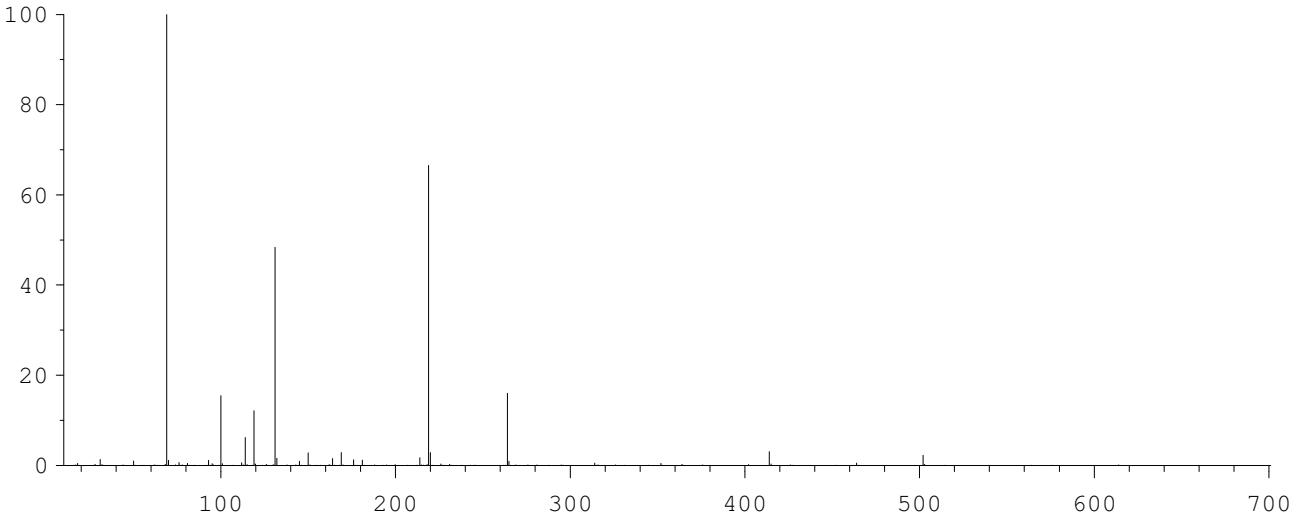


Ion Pol	Pos	MassGain	-1191
		MassOffs	-38
Emission	34.6	AmuGain	978
EIEnrgy	69.9	AmuOffs	127.94
Filament	1	Wid219	-0.003
		DC Pol	Pos
Repeller	29.79		
IonFcus	69.3	HEDEnab	On
EntLens	0.0	EMVolts	1329
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	230	Turbo Speed	100
MS Quad	150	HiVac	0.00e00

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10
125 peaks Base: 69.00 Abundance: 551040



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	551040	100.00	70.00	6195	1.12
219.00	366720	66.55	220.00	15616	4.26
502.00	12288	2.23	503.00	1319	10.73

Air/Water Check: H20~0.43% N2~0.28% O2~0.15% CO2~0.09% N2/H2O~64.78%

Column(1) Flow: 1 Column(2): -1.79769e+308 ml/min. Interface Temp: 300

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 51766
Repeller Maximum 30 volts using ion 219; Gain Factor 0.52

MassGain Values(Samples): -1179(3) -1177(2) -1157(1) -1126(0) -1040(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	127.9	127.9	127.9	127.9	127.9	127.9	127.9
Entrance Lens Offset:	16.8	14.1	14.3	15.6	16.1	16.8	16.8
Target Abund(%):	1.0	100.0	45.0	55.0	2.5	2.0	
Actual Tune Abund(%):	1.0	100.0	48.4	66.6	3.0	2.2	

S20H039-CAL1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202003.D
Acq On : 20 Aug 2020 15:25
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL1
Misc : 2030068 25 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 21 08:30:58 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration

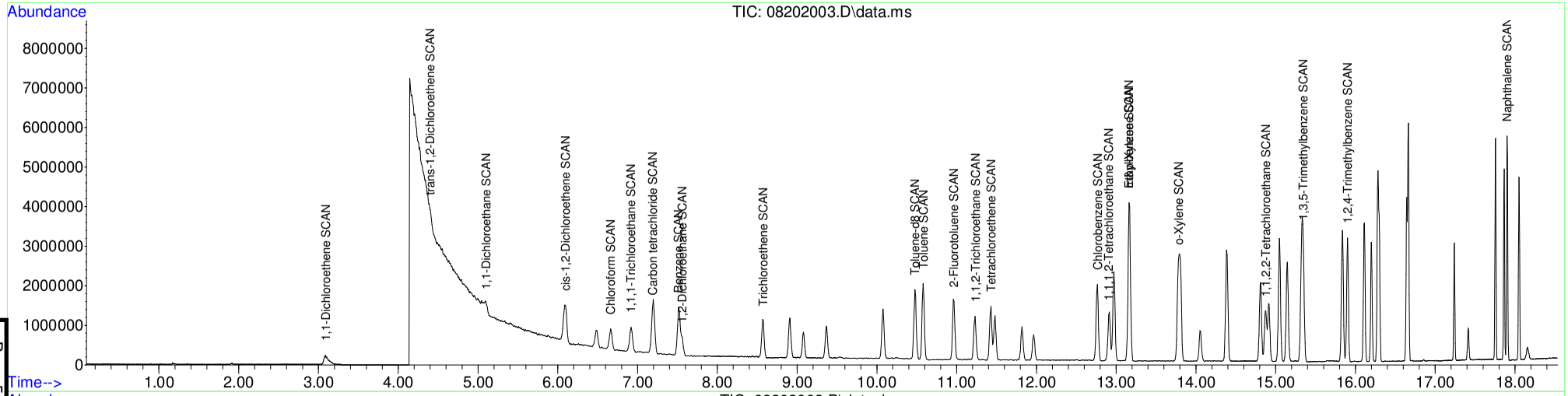
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	648237	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	2550057	20095.11 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 401.90%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	574530	20159.30 ug/L	84
3] trans-1,2-Dichloroethene	4.396	61	656585	21954.29 ug/L	99
4] 1,1-Dichloroethane	5.099	63	803642	21586.82 ug/L	99
5] cis-1,2-Dichloroethene	6.094	61	844386	21487.23 ug/L	99
6] Chloroform	6.664	83	899977	22375.19 ug/L	99
7] 1,1,1-Trichloroethane	6.919	97	968878	22180.47 ug/L	99
8] Carbon tetrachloride	7.187	117	914170	22235.33 ug/L	99
9] Benzene	7.515	78	2304166	20920.52 ug/L	99
10] 1,2-Dichloroethane	7.552	62	846849	21538.88 ug/L	98
11] Trichloroethene	8.569	130	695334	20968.15 ug/L	93
13] Toluene	10.571	91	3008786	18597.43 ug/L	99
14] 1,1,2-Trichloroethane	11.222	97	733249	20799.65 ug/L	97
15] Tetrachloroethene	11.432	166	940662	20090.91 ug/L	99
16] Chlorobenzene	12.757	112	2268821	19585.13 ug/L	93
17] 1,1,1,2-Tetrachloroethane	12.908	131	836326	20147.92 ug/L	99
18] Ethylbenzene	12.972	91	3692757	18751.96 ug/L	98
19] m&p-Xylene	13.162	91	5704874	37066.22 ug/L	98
20] o-Xylene	13.774	91	3130122	19035.81 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.873	83	1420481	19491.87 ug/L	100
22] 1,3,5-Trimethylbenzene	15.345	105	3358352	19188.41 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	3395311	18676.82 ug/L	97
24] Naphthalene	17.903	128	5320470	18517.34 ug/L	100
25) 2-Fluorotoluene SCAN	10.969	109	312945	4952.35 ug/L	87
26) 1,1-Dichloroethene SCAN	3.085	61	311746	23230.08 ug/L	87
27) trans-1,2-Dichloroethe...	4.394	61	351983	21195.80 ug/L #	62
28) 1,1-Dichloroethane SCAN	5.104	63	450335	23432.33 ug/L	97
29) cis-1,2-Dichloroethene...	6.093	61	461049	22391.00 ug/L #	77
30) Chloroform SCAN	6.662	83	492825	22066.51 ug/L	94
31) 1,1,1-Trichloroethane ...	6.918	97	499412	24538.45 ug/L	91
32) Carbon tetrachloride SCAN	7.186	117	453188	21347.00 ug/L	92
33) Benzene SCAN	7.514	78	1250753	22320.05 ug/L	96
34) 1,2-Dichloroethane SCAN	7.563	62	455179	21997.91 ug/L	96
35) Trichloroethene SCAN	8.574	130	336981	21882.74 ug/L	86
36) Toluene-d8 SCAN	10.475	98	1338484	21658.66 ug/L	95
37) Toluene SCAN	10.580	91	1546218	19537.05 ug/L	99
38) 1,1,2-Trichloroethane ...	11.231	97	383748	21602.31 ug/L	93
39) Tetrachloroethene SCAN	11.430	166	422055	22197.27 ug/L	95
40) Chlorobenzene SCAN	12.764	112	1101434	20366.73 ug/L	92
41) 1,1,1,2-Tetrachloroeth...	12.907	131	399709	19971.60 ug/L	95
42) Ethylbenzene SCAN	13.161	91	2927134	20301.32 ug/L	92
43) m&p-Xylene SCAN	13.161	91	2927134	20301.32 ug/L	92
44) o-Xylene SCAN	13.781	91	1599160	20720.30 ug/L	96
45) 1,1,2,2-Tetrachloroeth...	14.875	83	787765	20932.68 ug/L	98
46) 1,3,5-Trimethylbenzene...	15.343	105	1669431	20524.56 ug/L	98
47) 1,2,4-Trimethylbenzene...	15.899	105	1675093	20126.80 ug/L	96
48) Naphthalene SCAN	17.901	128	2499778	19849.60 ug/L	99

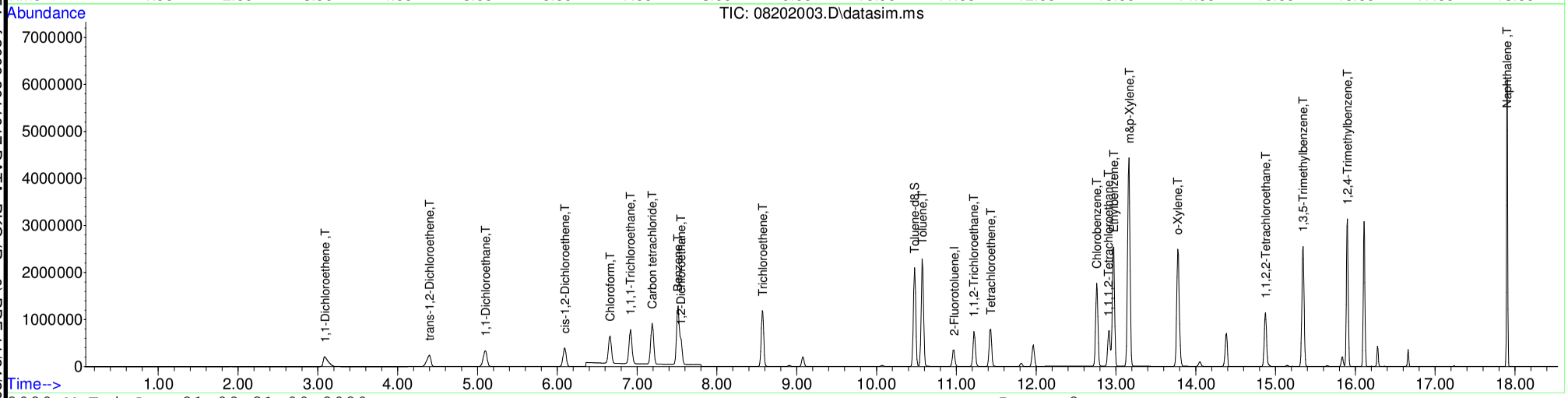
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202003.D
Acq On : 20 Aug 2020 15:25
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL1
Misc : 2030068 25 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 21 08:30:58 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration





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S20H039-CAL2

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202004.D
Acq On : 20 Aug 2020 15:49
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL2
Misc : 2030069 10 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 21 08:31:02 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration

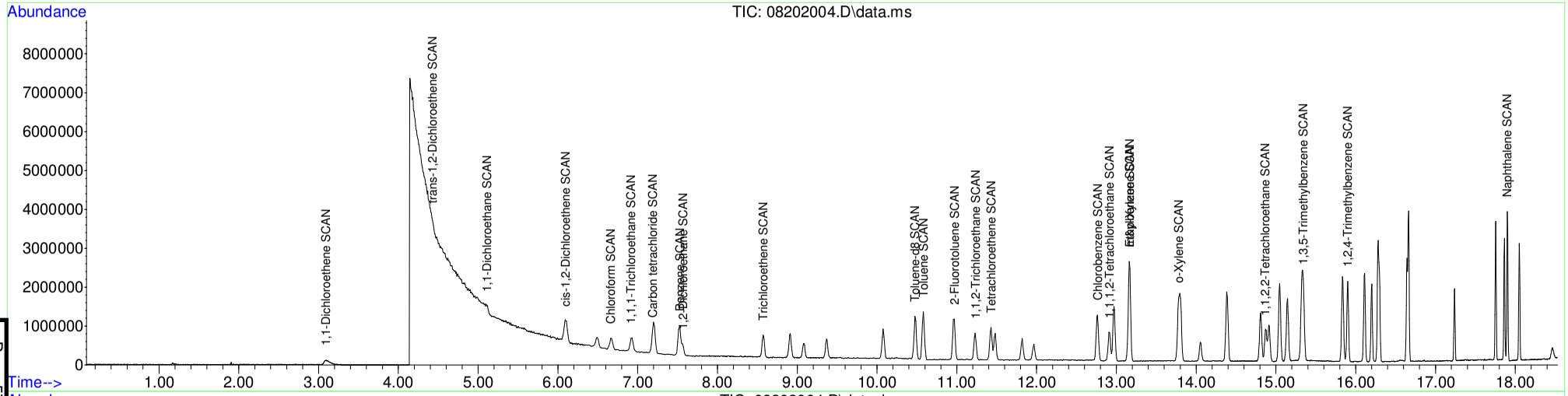
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	658265	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	1598935	12408.08 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 248.16%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.089	61	337762	11670.96 ug/L	85
3] trans-1,2-Dichloroethene	4.415	61	385140	12681.78 ug/L	99
4] 1,1-Dichloroethane	5.112	63	475966	12590.27 ug/L	99
5] cis-1,2-Dichloroethene	6.101	61	502402	12589.94 ug/L	99
6] Chloroform	6.664	83	526532	12891.19 ug/L	100
7] 1,1,1-Trichloroethane	6.919	97	573090	12919.85 ug/L	100
8] Carbon tetrachloride	7.187	117	543134	13009.38 ug/L	100
9] Benzene	7.515	78	1390859	12435.83 ug/L	100
10] 1,2-Dichloroethane	7.551	62	505651	12664.88 ug/L	98
11] Trichloroethene	8.575	130	423697	12582.16 ug/L	93
13] Toluene	10.571	91	1898928	11558.54 ug/L	100
14] 1,1,2-Trichloroethane	11.222	97	449618	12559.76 ug/L	97
15] Tetrachloroethene	11.432	166	593500	12483.03 ug/L	99
16] Chlorobenzene	12.757	112	1444139	12276.32 ug/L	93
17] 1,1,1,2-Tetrachloroethane	12.908	131	527138	12505.81 ug/L	100
18] Ethylbenzene	12.964	91	2370804	11855.63 ug/L	98
19] m&p-Xylene	13.162	91	3652536	23370.06 ug/L	97
20] o-Xylene	13.774	91	2010115	12038.27 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.873	83	905676	12238.38 ug/L	100
22] 1,3,5-Trimethylbenzene	15.340	105	2186063	12300.10 ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	2217101	12009.97 ug/L	97
24] Naphthalene	17.902	128	3552389	12175.37 ug/L	100
25) 2-Fluorotoluene SCAN	10.969	109	328600	5120.88 ug/L	93
26) 1,1-Dichloroethene SCAN	3.095	61	187881	13786.87 ug/L	86
27) trans-1,2-Dichloroethe...	4.421	61	211940	12568.23 ug/L #	60
28) 1,1-Dichloroethane SCAN	5.111	63	259075	13275.12 ug/L	97
29) cis-1,2-Dichloroethene...	6.099	61	277801	13285.97 ug/L #	78
30) Chloroform SCAN	6.662	83	277868	12252.16 ug/L	95
31) 1,1,1-Trichloroethane ...	6.918	97	298757	14455.71 ug/L	91
32) Carbon tetrachloride SCAN	7.185	117	255165	11836.21 ug/L	93
33) Benzene SCAN	7.526	78	760706	13368.21 ug/L	96
34) 1,2-Dichloroethane SCAN	7.562	62	279288	13291.82 ug/L	97
35) Trichloroethene SCAN	8.573	130	204333	13066.76 ug/L	85
36) Toluene-d8 SCAN	10.475	98	838595	13362.99 ug/L	98
37) Toluene SCAN	10.580	91	1003500	12486.44 ug/L	99
38) 1,1,2-Trichloroethane ...	11.231	97	237513	13166.63 ug/L	94
39) Tetrachloroethene SCAN	11.430	166	264331	13690.26 ug/L	97
40) Chlorobenzene SCAN	12.764	112	706230	12860.03 ug/L	91
41) 1,1,1,2-Tetrachloroeth...	12.915	131	248709	12237.52 ug/L	96
42) Ethylbenzene SCAN	13.161	91	1857232	12684.72 ug/L	91
43) m&p-Xylene SCAN	13.161	91	1857232	12684.72 ug/L	92
44) o-Xylene SCAN	13.781	91	1011769	12909.77 ug/L	96
45) 1,1,2,2-Tetrachloroeth...	14.868	83	500490	13096.54 ug/L	98
46) 1,3,5-Trimethylbenzene...	15.343	105	1082480	13105.64 ug/L	98
47) 1,2,4-Trimethylbenzene...	15.899	105	1083179	12816.49 ug/L	96
48) Naphthalene SCAN	17.901	128	1640425	12827.44 ug/L	99

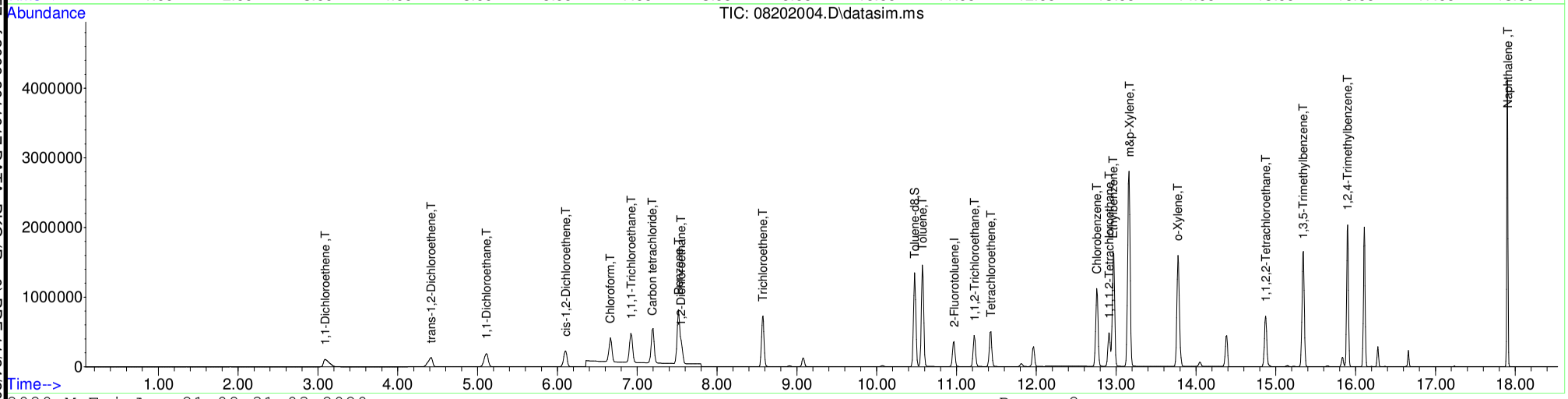
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202004.D
Acq On : 20 Aug 2020 15:49
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL2
Misc : 2030069 10 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 21 08:31:02 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration





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S20H039-CAL3

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202005.D
Acq On : 20 Aug 2020 16:13
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL3
Misc : 2030070 5 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 08:31:05 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration

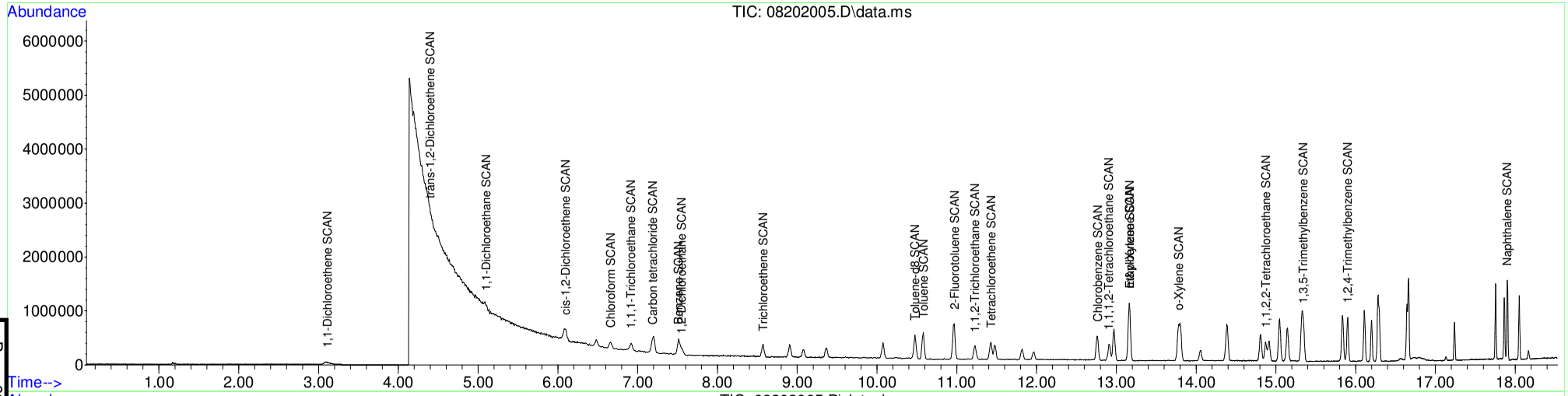
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	673233	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	629076	4773.23	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 95.46%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	126761	4282.69	ug/L	84
3] trans-1,2-Dichloroethene	4.396	61	145387	4680.82	ug/L	99
4] 1,1-Dichloroethane	5.099	63	180029	4656.26	ug/L	98
5] cis-1,2-Dichloroethene	6.094	61	190553	4669.00	ug/L	99
6] Chloroform	6.664	83	196458	4702.98	ug/L	100
7] 1,1,1-Trichloroethane	6.919	97	214003	4717.26	ug/L	99
8] Carbon tetrachloride	7.187	117	202678	4746.70	ug/L	100
9] Benzene	7.515	78	523170	4573.72	ug/L	99
10] 1,2-Dichloroethane	7.552	62	191144	4681.08	ug/L	98
11] Trichloroethene	8.569	130	161743	4696.35	ug/L	94
13] Toluene	10.571	91	755646	4497.26	ug/L	100
14] 1,1,2-Trichloroethane	11.222	97	172328	4706.83	ug/L	98
15] Tetrachloroethene	11.421	166	232804	4787.68	ug/L	100
16] Chlorobenzene	12.757	112	577532	4800.33	ug/L	93
17] 1,1,1,2-Tetrachloroethane	12.908	131	207134	4804.79	ug/L	100
18] Ethylbenzene	12.964	91	957968	4683.98	ug/L	98
19] m&p-Xylene	13.162	91	1468448	9186.69	ug/L	97
20] o-Xylene	13.774	91	804751	4712.38	ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.873	83	361853	4781.00	ug/L	100
22] 1,3,5-Trimethylbenzene	15.345	105	875077	4814.24	ug/L	96
23] 1,2,4-Trimethylbenzene	15.896	105	885300	4689.02	ug/L	97
24] Naphthalene	17.903	128	1447043	4849.29	ug/L	100
25) 2-Fluorotoluene SCAN	10.969	109	328139	5000.00	ug/L	97
26) 1,1-Dichloroethene SCAN	3.107	61	69687	5000.00	ug/L #	30
27) trans-1,2-Dichloroethe...	4.401	61	86233	5000.00	ug/L #	58
28) 1,1-Dichloroethane SCAN	5.104	63	99798	5000.00	ug/L	97
29) cis-1,2-Dichloroethene...	6.093	61	106924	5000.00	ug/L #	75
30) Chloroform SCAN	6.662	83	115974	5000.00	ug/L	93
31) 1,1,1-Trichloroethane ...	6.918	97	105685	5000.00	ug/L	90
32) Carbon tetrachloride SCAN	7.185	117	110241	5000.00	ug/L	87
33) Benzene SCAN	7.514	78	290990	5000.00	ug/L	97
34) 1,2-Dichloroethane SCAN	7.550	62	107449	5000.00	ug/L	97
35) Trichloroethene SCAN	8.568	130	79966	5000.00	ug/L	91
36) Toluene-d8 SCAN	10.475	98	320910	5000.00	ug/L	95
37) Toluene SCAN	10.580	91	410973	5000.00	ug/L	97
38) 1,1,2-Trichloroethane ...	11.221	97	92246	5000.00	ug/L	92
39) Tetrachloroethene SCAN	11.430	166	98735	5000.00	ug/L	95
40) Chlorobenzene SCAN	12.764	112	280827	5000.00	ug/L	92
41) 1,1,1,2-Tetrachloroeth...	12.907	131	103928	5000.00	ug/L	93
42) Ethylbenzene SCAN	13.161	91	748721	5000.00	ug/L	91
43) m&p-Xylene SCAN	13.161	91	748721	5000.00	ug/L	92
44) o-Xylene SCAN	13.781	91	400772	5000.00	ug/L	98
45) 1,1,2,2-Tetrachloroeth...	14.872	83	195422	5000.00	ug/L	99
46) 1,3,5-Trimethylbenzene...	15.343	105	422373	5000.00	ug/L	98
47) 1,2,4-Trimethylbenzene...	15.899	105	432181	5000.00	ug/L	96
48) Naphthalene SCAN	17.901	128	653960	5000.00	ug/L	99

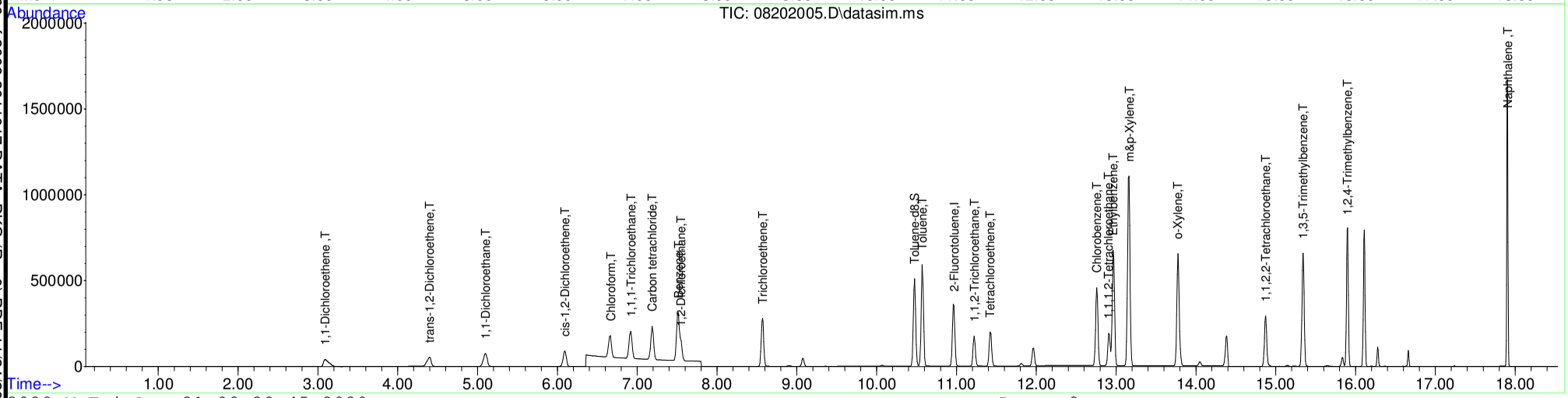
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202005.D
Acq On : 20 Aug 2020 16:13
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL3
Misc : 2030070 5 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 08:31:05 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration





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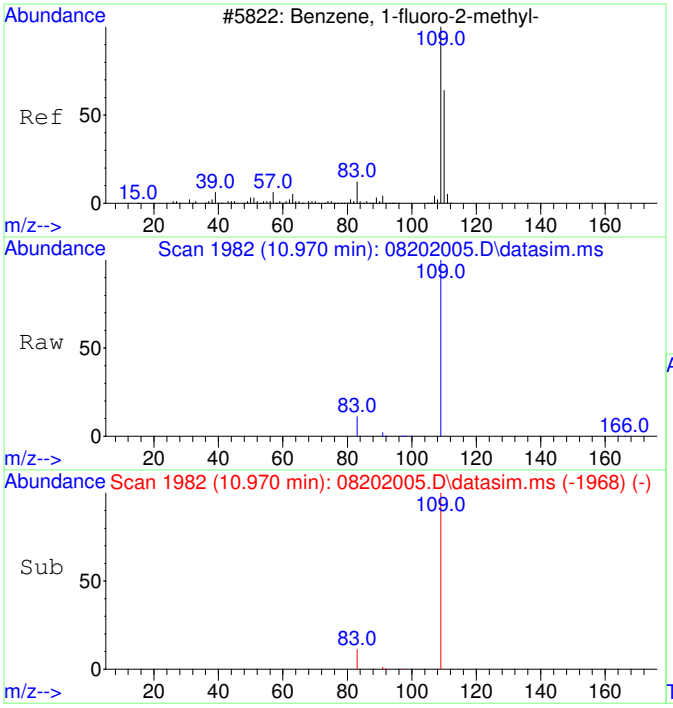
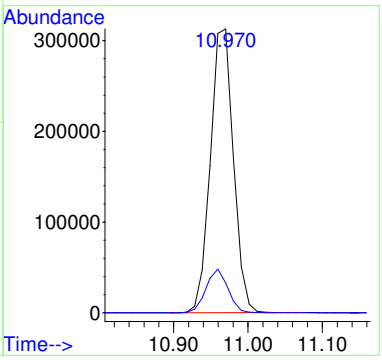
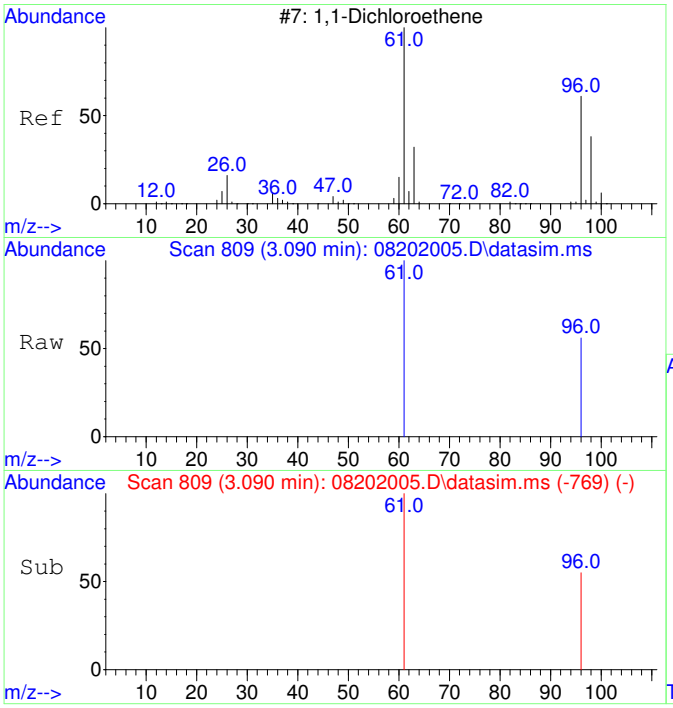


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:109 Resp: 673233

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	42.3

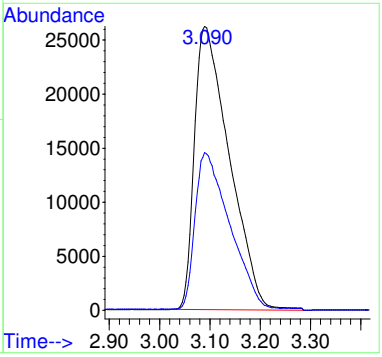


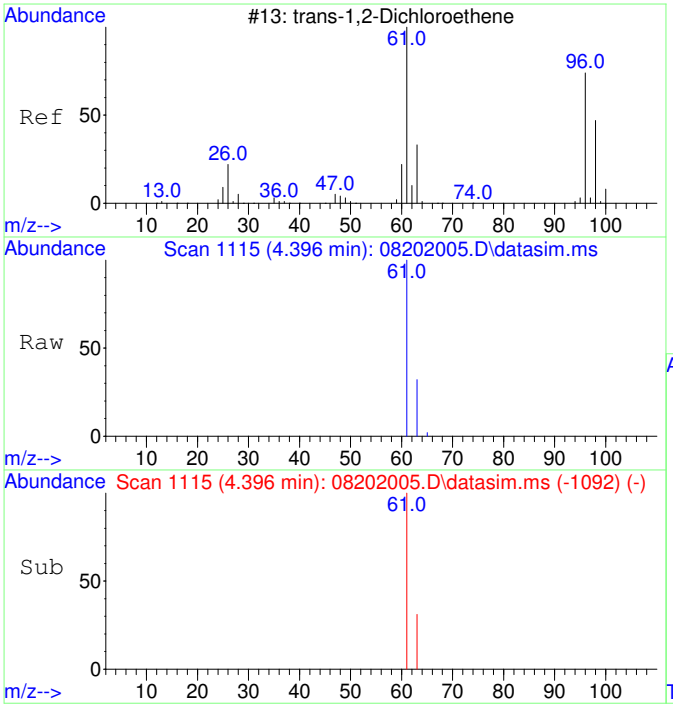


#2
1,1-Dichloroethene
Concen: 4282.69 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 61 Resp: 126761

Ion	Ratio	Lower	Upper
61	100		
96	54.2	37.2	97.2

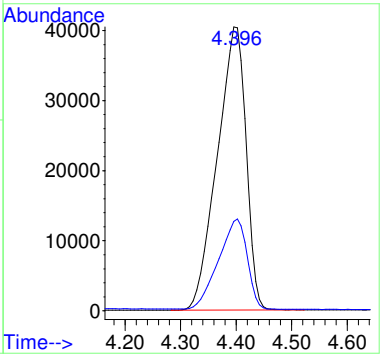


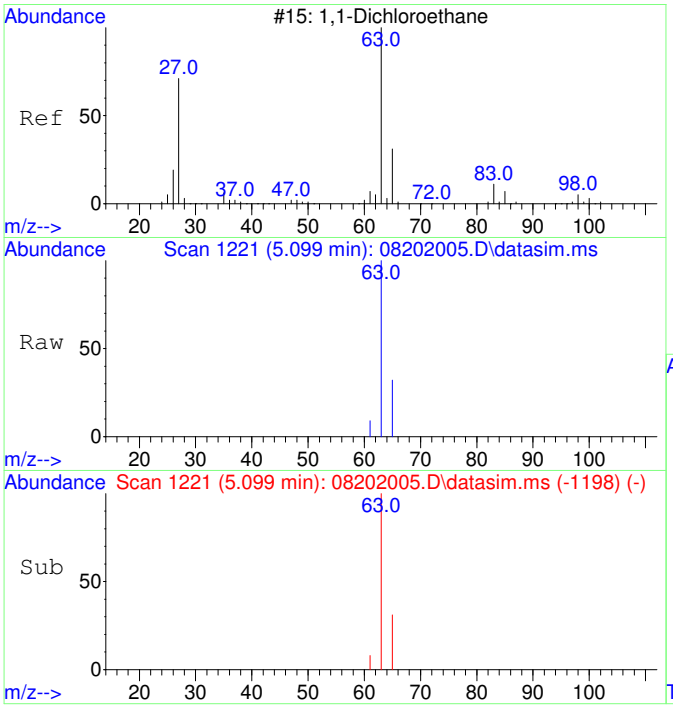


#3
trans-1,2-Dichloroethene
Concen: 4680.82 ug/L
RT: 4.396 min Scan# 1115
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 61 Resp: 145387

Ion	Ratio	Lower	Upper
61	100		
63	31.6	2.4	62.4

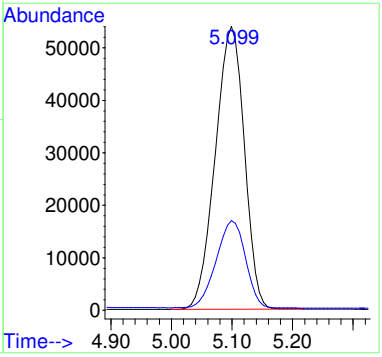


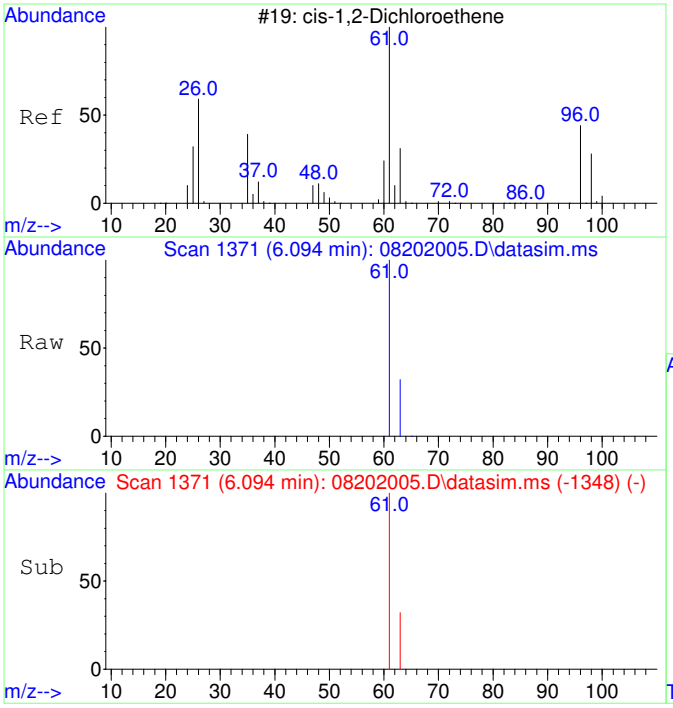


#4
1,1-Dichloroethane
Concen: 4656.26 ug/L
RT: 5.099 min Scan# 1221
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 63 Resp: 180029

Ion	Ratio	Lower	Upper
63	100		
65	30.9	1.8	61.8

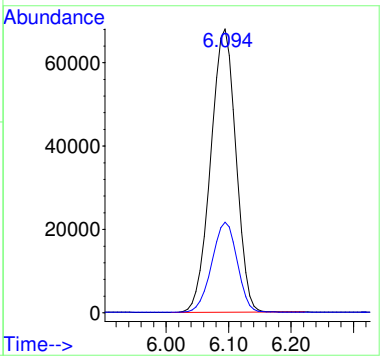


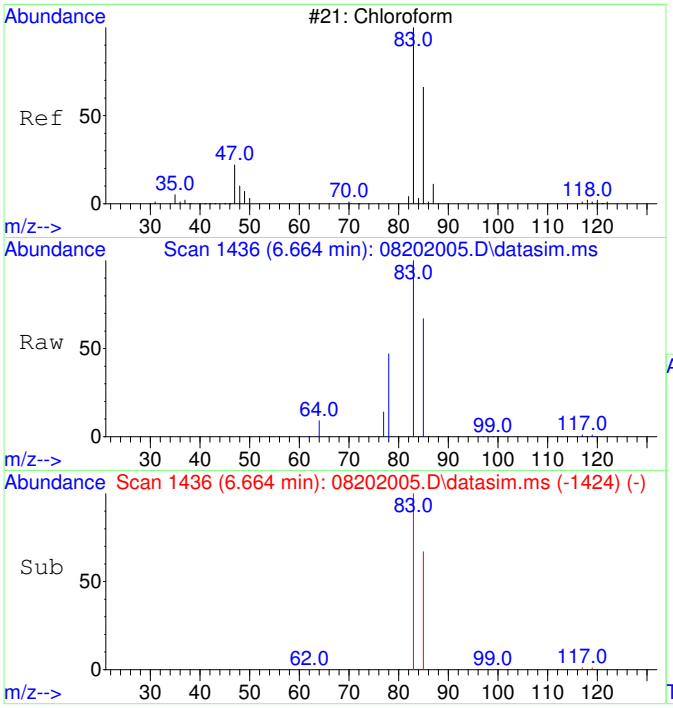


#5
cis-1,2-Dichloroethene
Concen: 4669.00 ug/L
RT: 6.094 min Scan# 1371
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 61 Resp: 190553

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

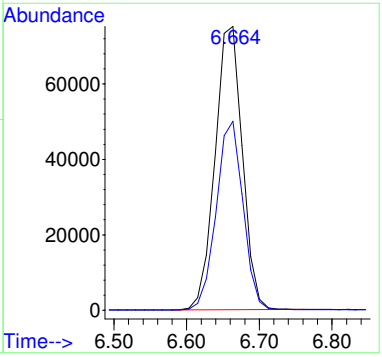


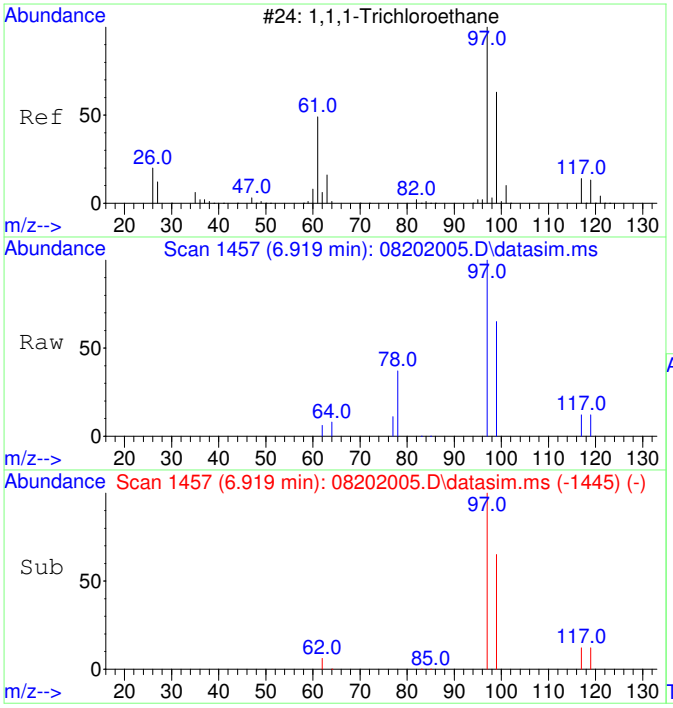


#6
Chloroform
Concen: 4702.98 ug/L
RT: 6.664 min Scan# 1436
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 83 Resp: 196458

Ion	Ratio	Lower	Upper
83	100		
85	65.0	35.1	95.1

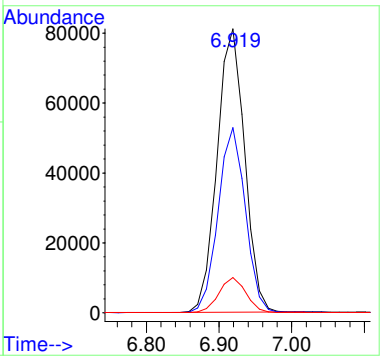


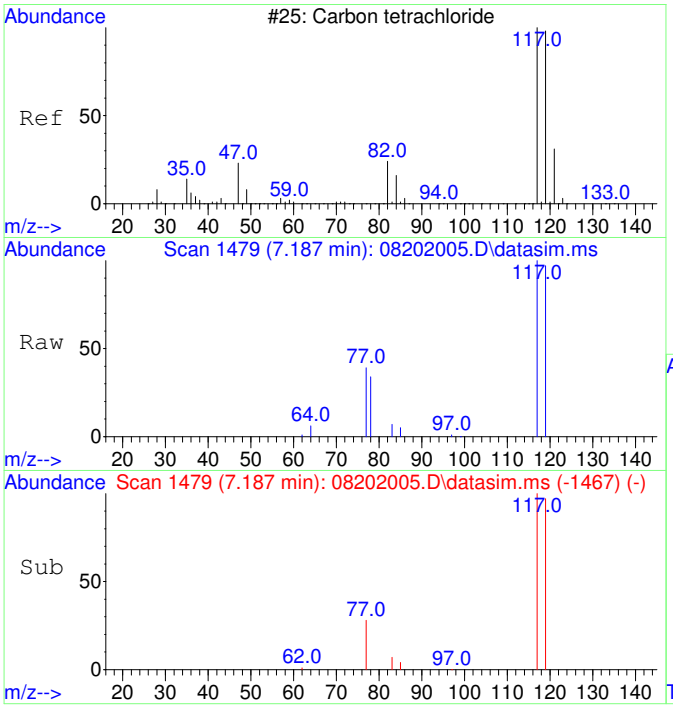


#7
1,1,1-Trichloroethane
Concen: 4717.26 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 97 Resp: 214003

Ion	Ratio	Lower	Upper
97	100		
99	64.3	34.6	94.6
117	12.1	0.0	43.2

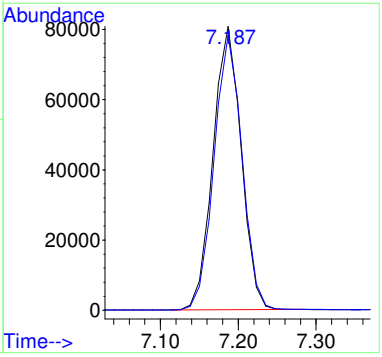


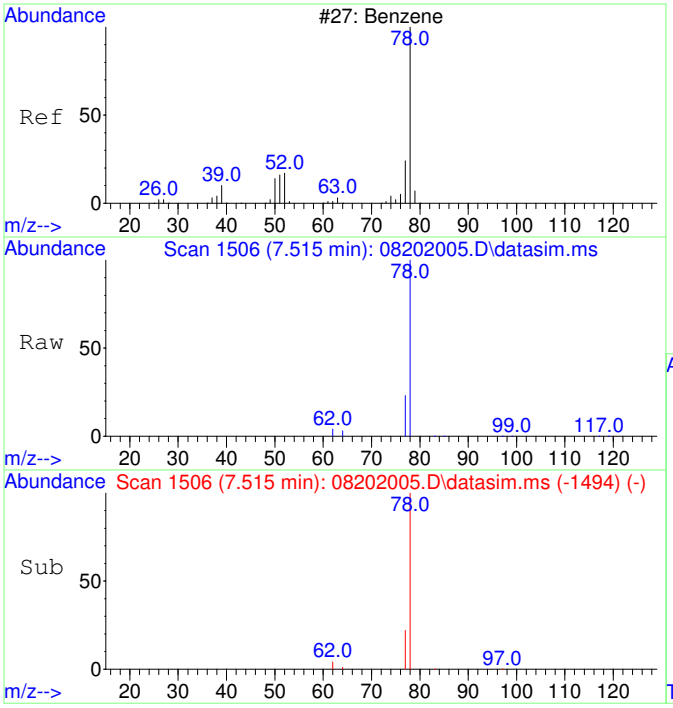


#8
Carbon tetrachloride
Concen: 4746.70 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:117 Resp: 202678

Ion	Ratio	Lower	Upper
117	100		
119	96.0	66.4	126.4

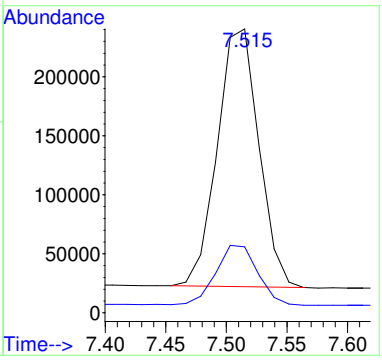


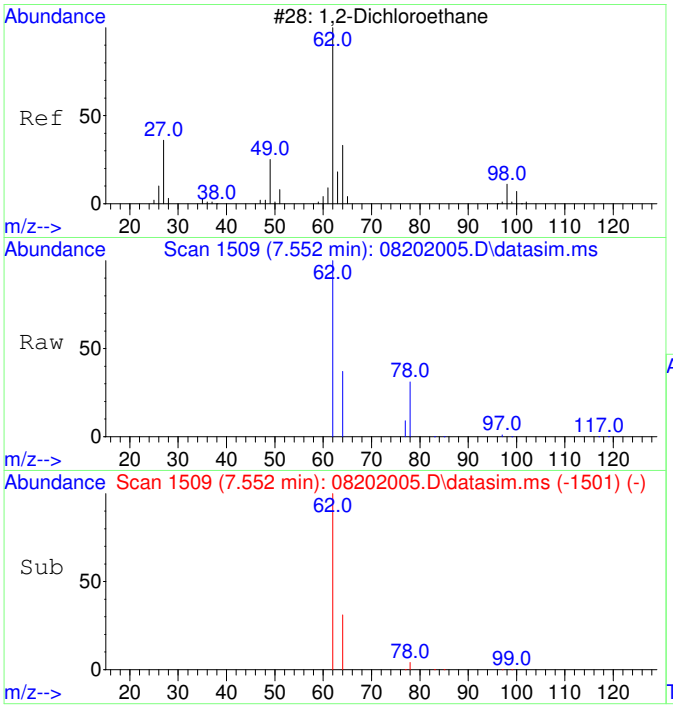


#9
Benzene
Concen: 4573.72 ug/L
RT: 7.515 min Scan# 1506
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 78 Resp: 523170

Ion	Ratio	Lower	Upper
78	100		
77	23.9	0.0	53.2

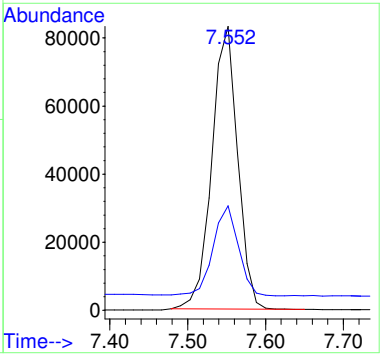


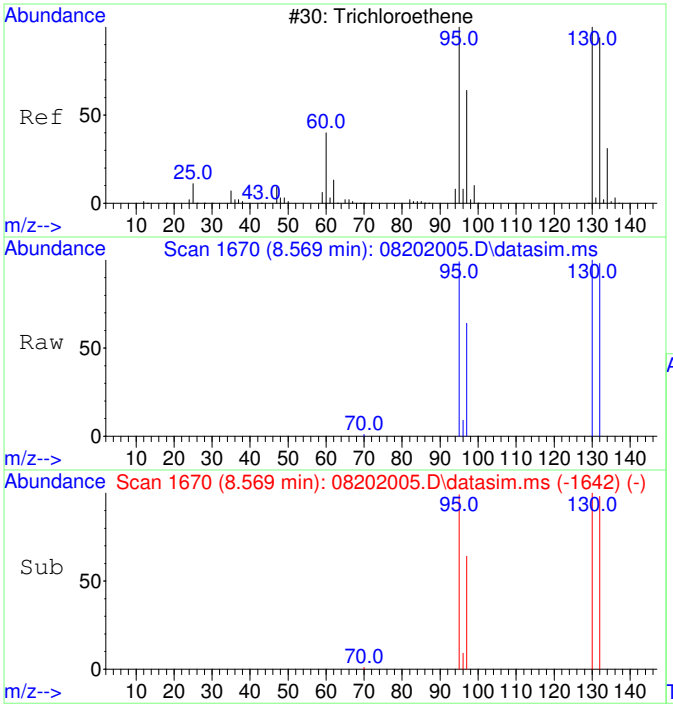


#10
1,2-Dichloroethane
Concen: 4681.08 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 62 Resp: 191144

Ion	Ratio	Lower	Upper
62	100		
64	31.3	2.3	62.3

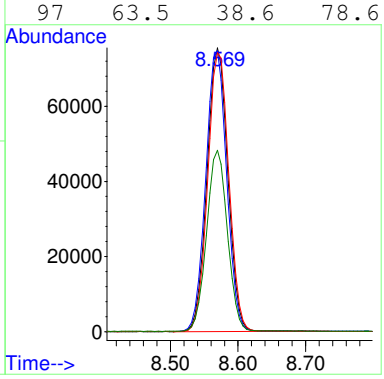


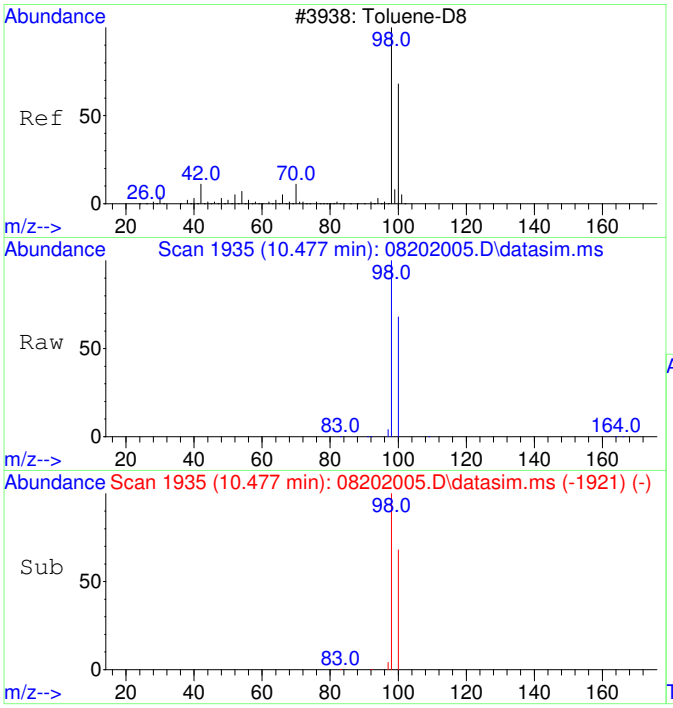


#11
Trichloroethene
Concen: 4696.35 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:130 Resp: 161743

Ion	Ratio	Lower	Upper
130	100		
95	99.3	60.7	120.7
132	99.4	76.0	116.0
97	63.5	38.6	78.6

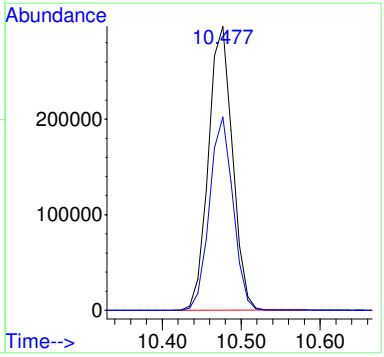


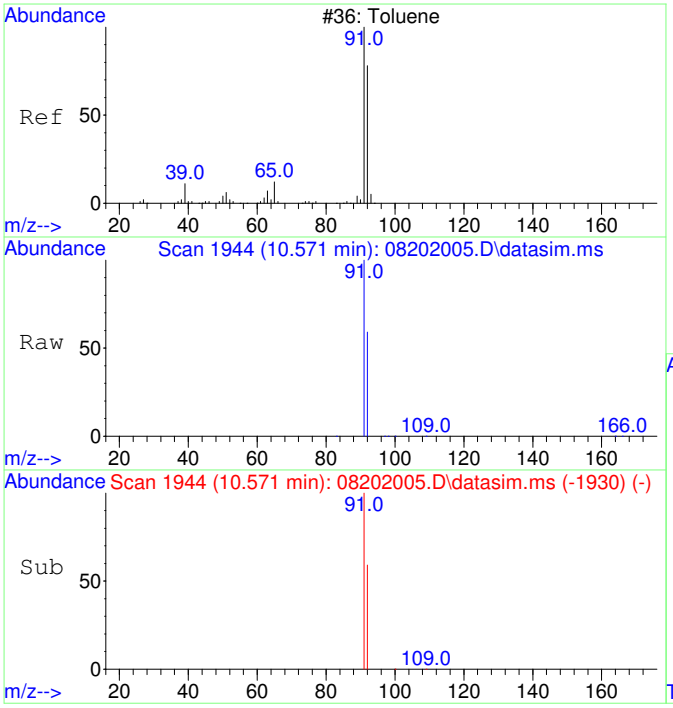


#12
Toluene-d8
Concen: 4773.23 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 98 Resp: 629076

Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1

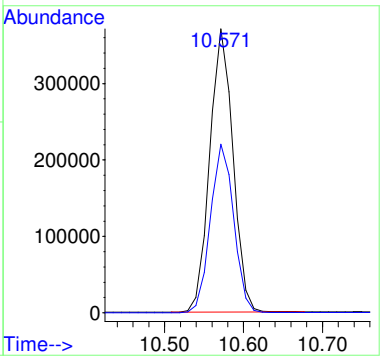


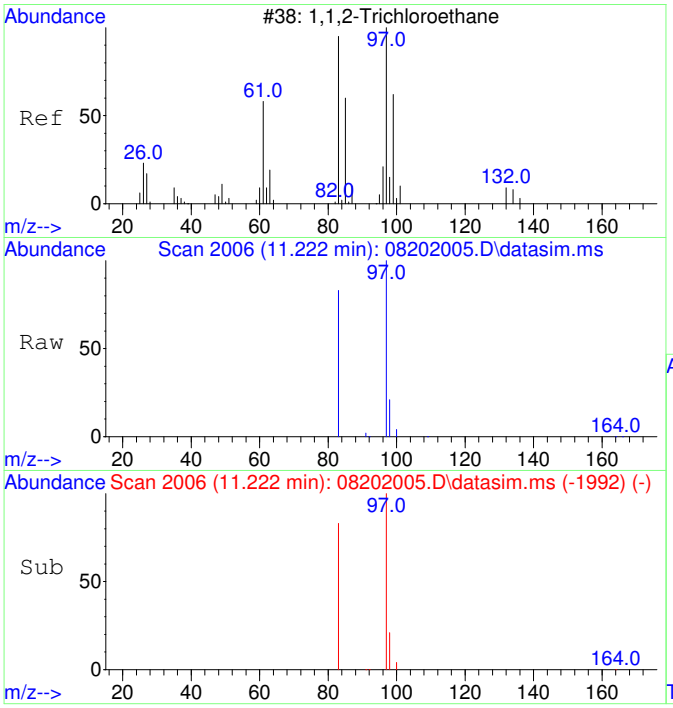


#13
Toluene
Concen: 4497.26 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 91 Resp: 755646

Ion	Ratio	Lower	Upper
91	100		
92	59.7	29.9	89.9

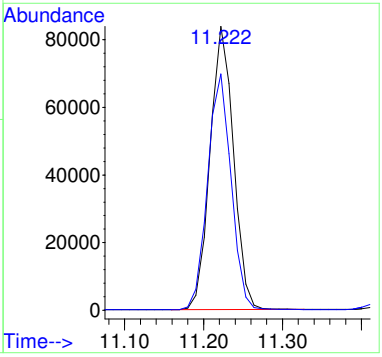


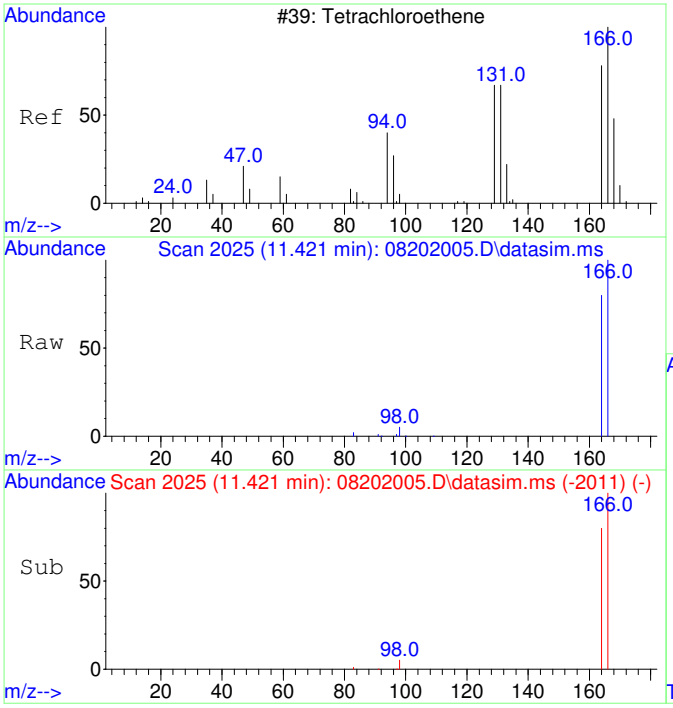


#14
1,1,2-Trichloroethane
Concen: 4706.83 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 97 Resp: 172328

Ion	Ratio	Lower	Upper
97	100		
83	83.4	51.2	111.2

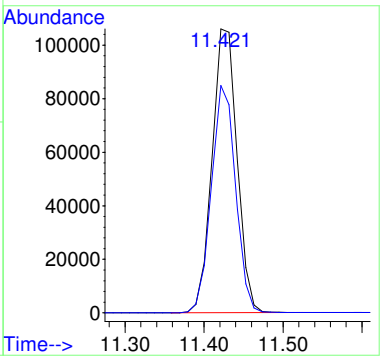


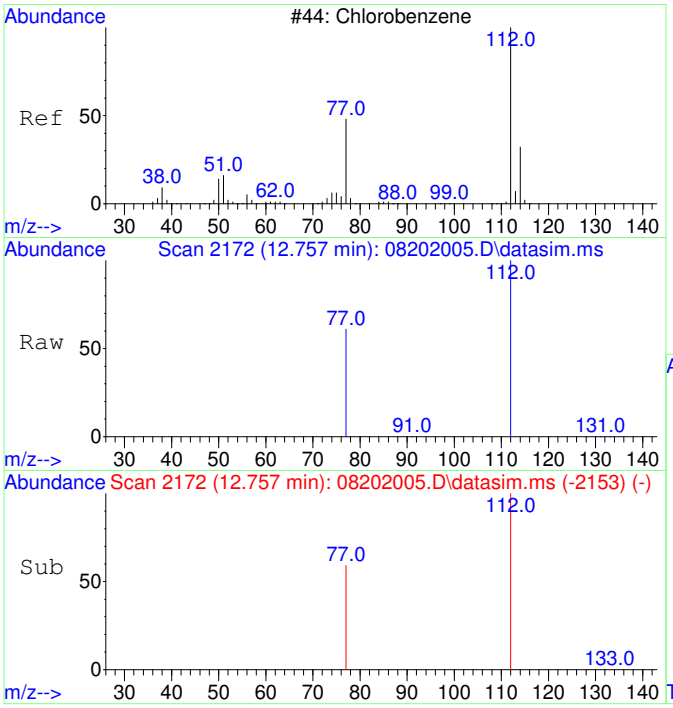


#15
Tetrachloroethene
Concen: 4787.68 ug/L
RT: 11.421 min Scan# 2025
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:166 Resp: 232804

Ion	Ratio	Lower	Upper
166	100		
164	77.7	47.8	107.8

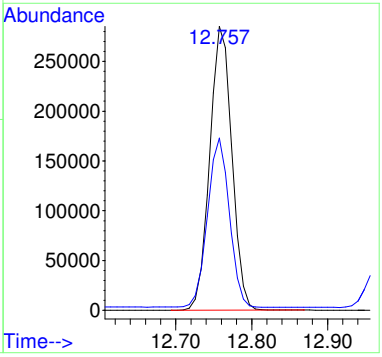


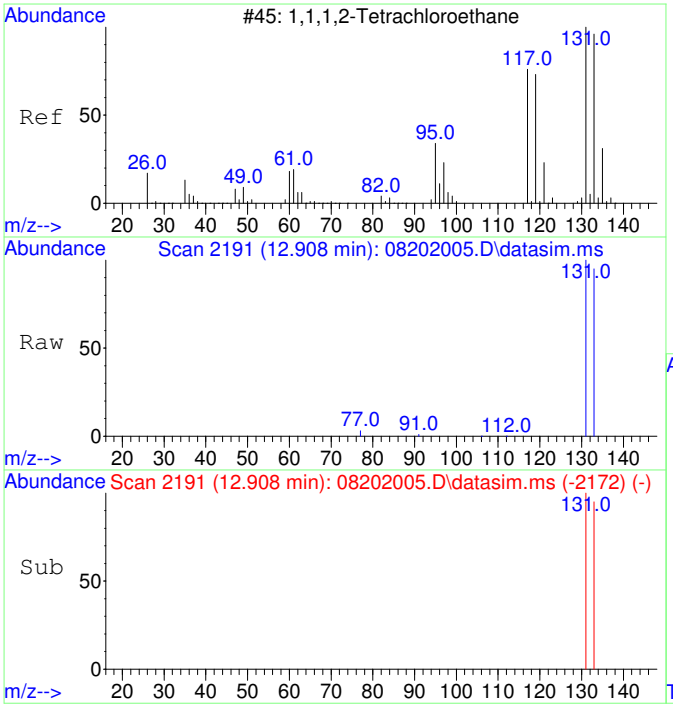


#16
Chlorobenzene
Concen: 4800.33 ug/L
RT: 12.757 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:112 Resp: 577532

Ion	Ratio	Lower	Upper
112	100		
77	58.8	23.6	83.6

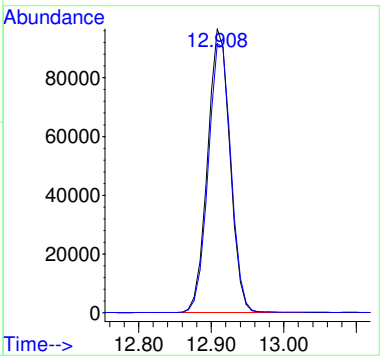


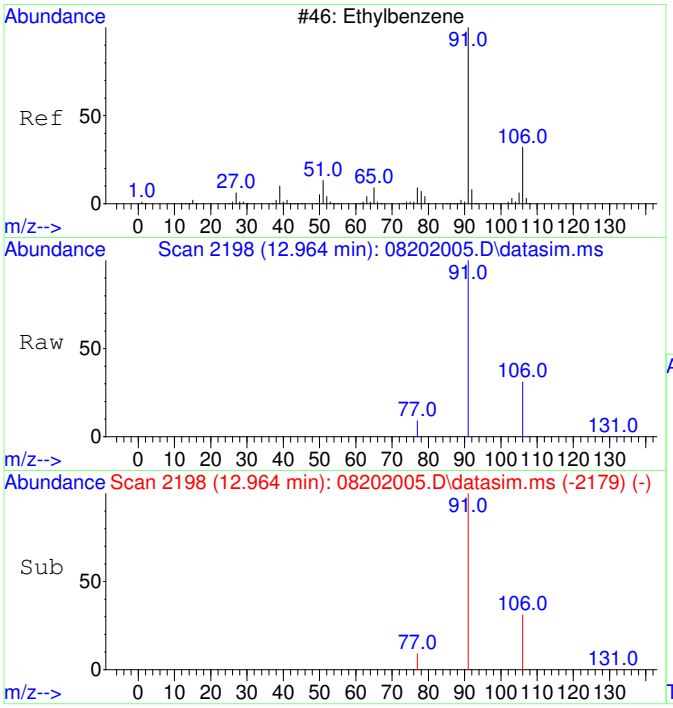


#17
1,1,1,2-Tetrachloroethane
Concen: 4804.79 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:131 Resp: 207134

Ion	Ratio	Lower	Upper
131	100		
133	96.4	66.3	126.3

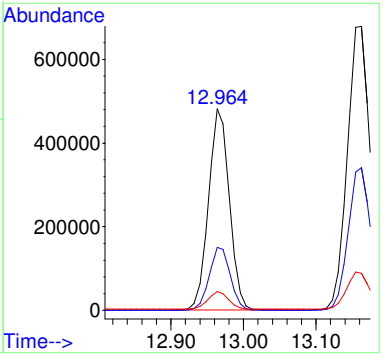


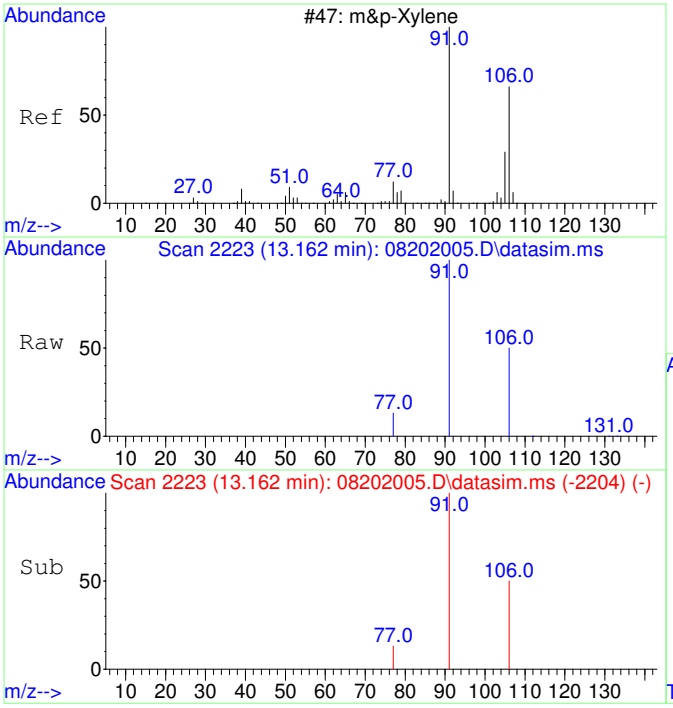


#18
Ethylbenzene
Concen: 4683.98 ug/L
RT: 12.964 min Scan# 2198
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 91 Resp: 957968

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	8.6	0.0	38.2

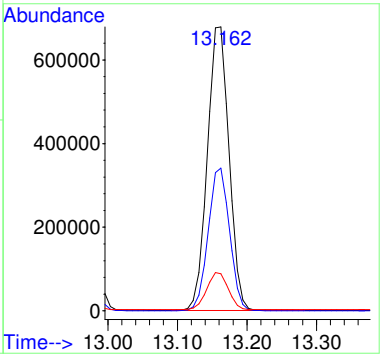


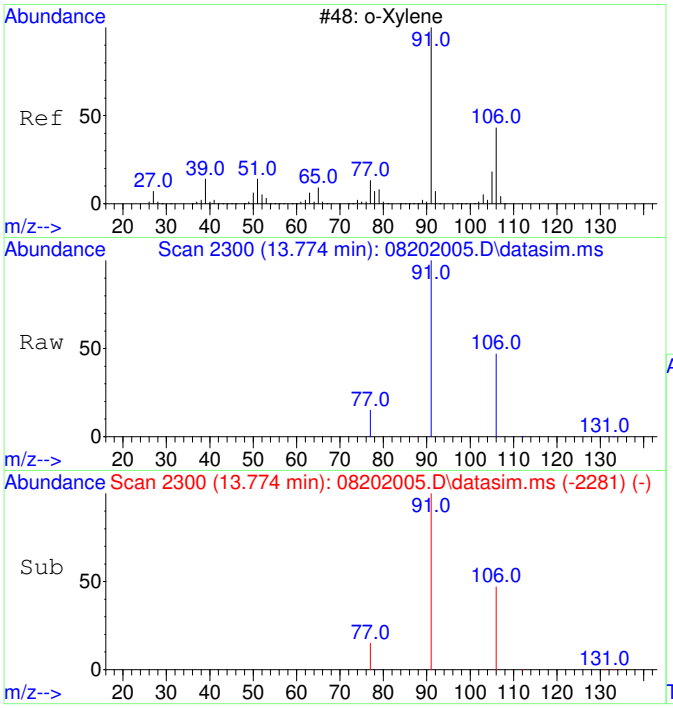


#19
m&p-Xylene
Concen: 9186.69 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 91 Resp: 1468448

Ion	Ratio	Lower	Upper
91	100		
106	49.5	22.2	82.2
77	13.0	0.0	42.4

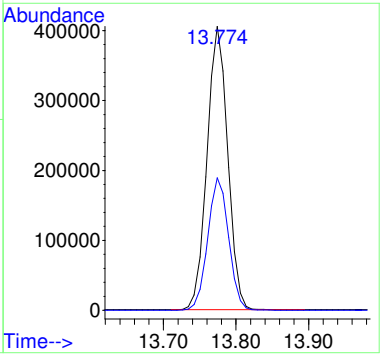


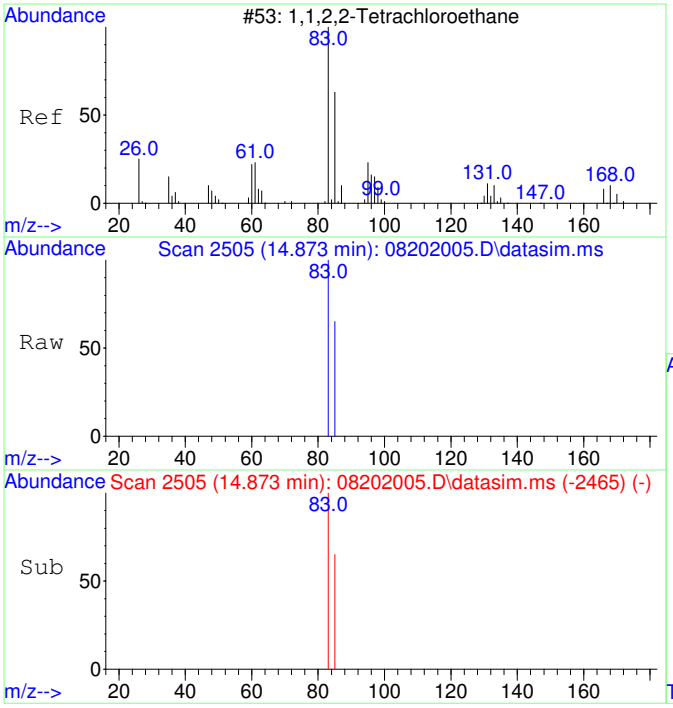


#20
o-Xylene
Concen: 4712.38 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 91 Resp: 804751

Ion	Ratio	Lower	Upper
91	100		
106	47.0	19.2	79.2

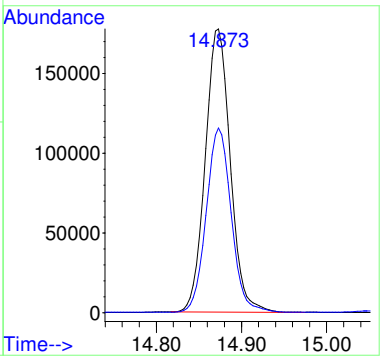


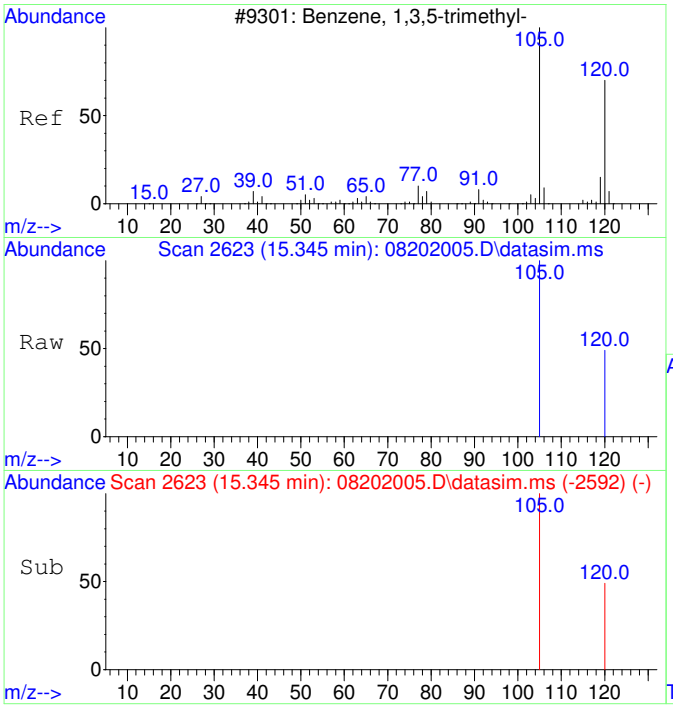


#21
1,1,2,2-Tetrachloroethane
Concen: 4781.00 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 83 Resp: 361853

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.8	94.8

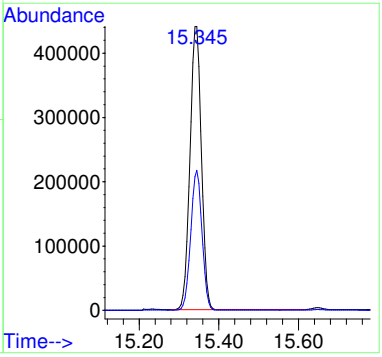


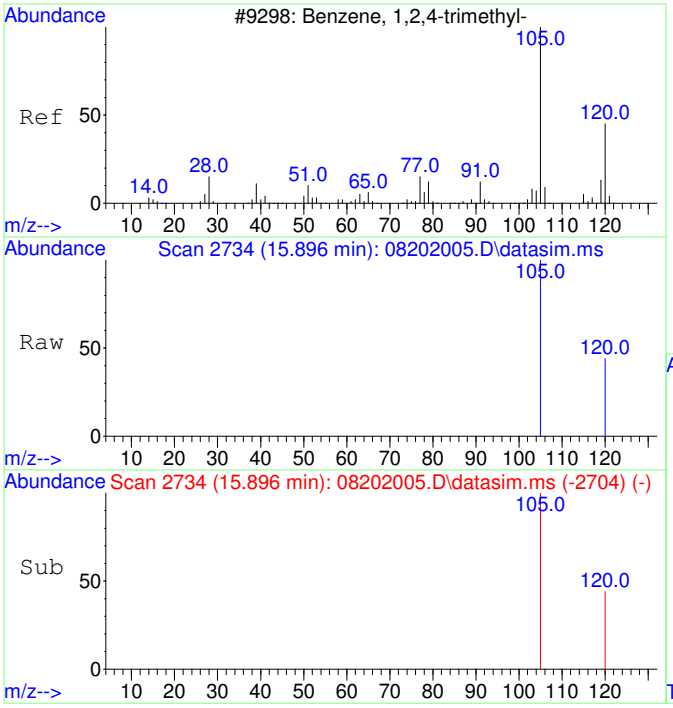


#22
1,3,5-Trimethylbenzene
Concen: 4814.24 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:105 Resp: 875077

Ion	Ratio	Lower	Upper
105	100		
120	48.6	21.1	81.1

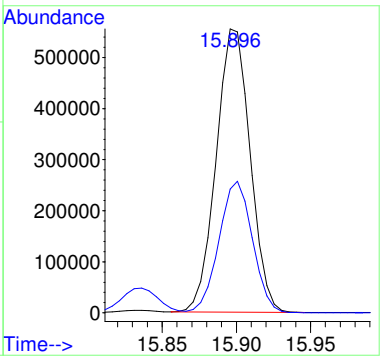


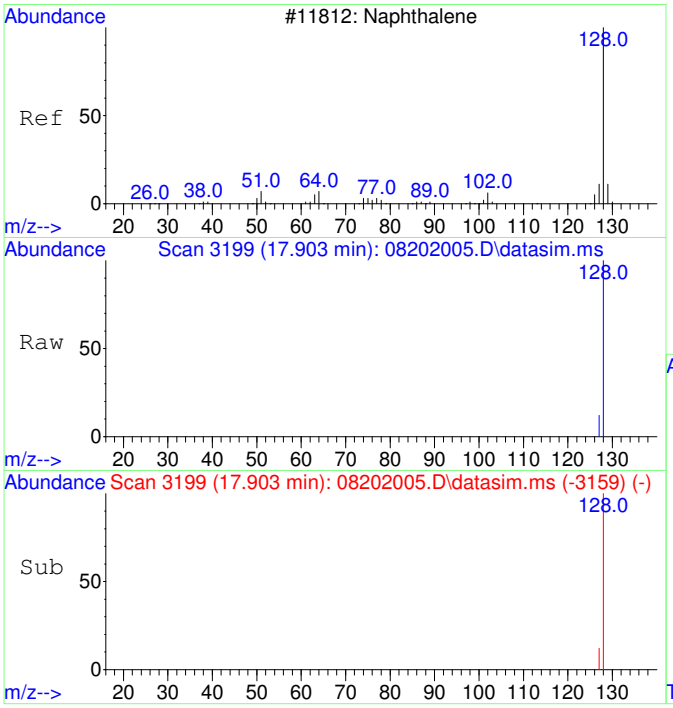


#23
1,2,4-Trimethylbenzene
Concen: 4689.02 ug/L
RT: 15.896 min Scan# 2734
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:105 Resp: 885300

Ion	Ratio	Lower	Upper
105	100		
120	44.9	17.2	77.2

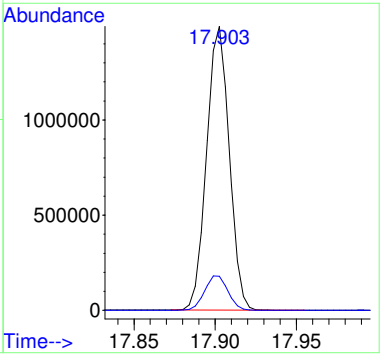


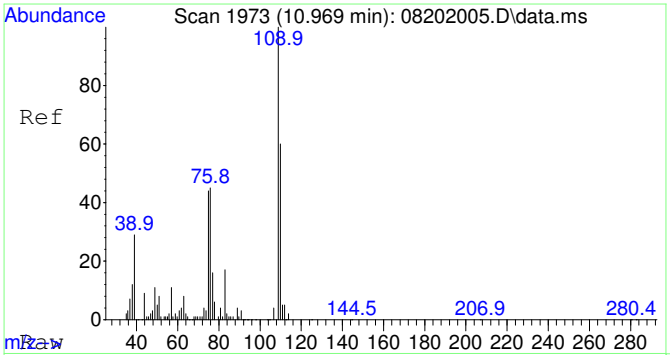


#24
Naphthalene
Concen: 4849.29 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:128 Resp: 1447043

Ion	Ratio	Lower	Upper
128	100		
127	12.4	0.0	42.5

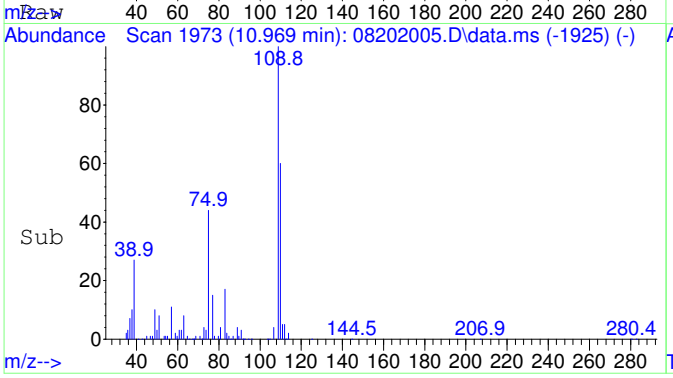


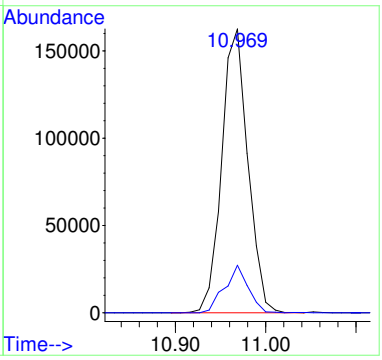


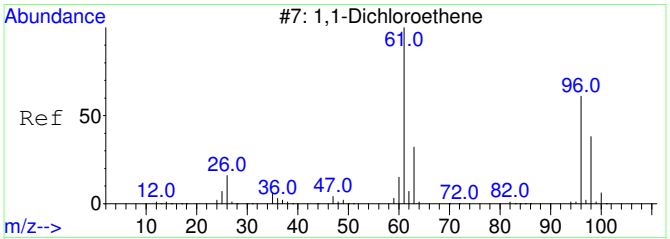
#25
2-Fluorotoluene SCAN
Concen: 5000.00 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:109 Resp: 328139

Ion	Ratio	Lower	Upper
109	100		
83	15.1	0.0	43.8



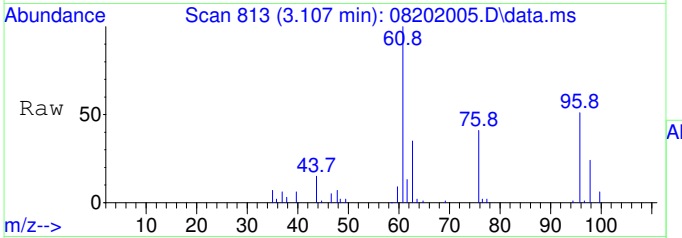


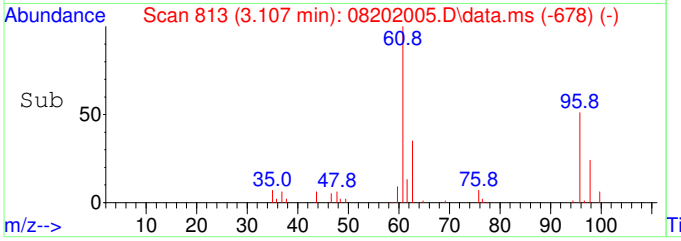


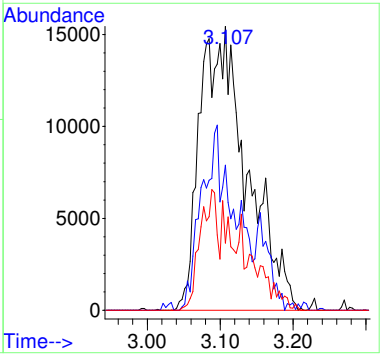
#26
1,1-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 3.107 min Scan# 813
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

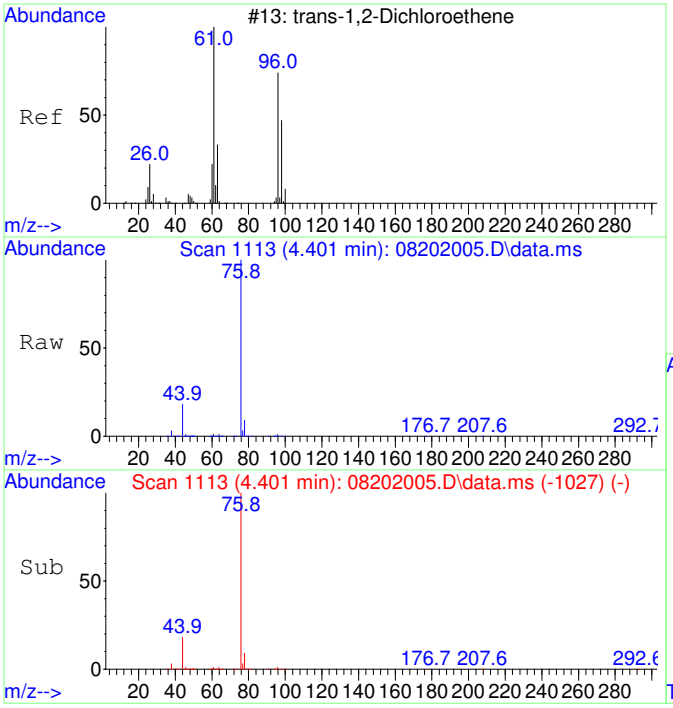
Tgt Ion: 61 Resp: 69687

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.1	93.1#
98	8.0	11.2	71.2#





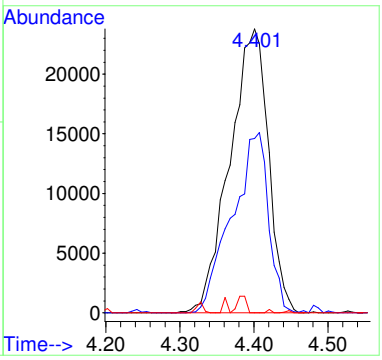


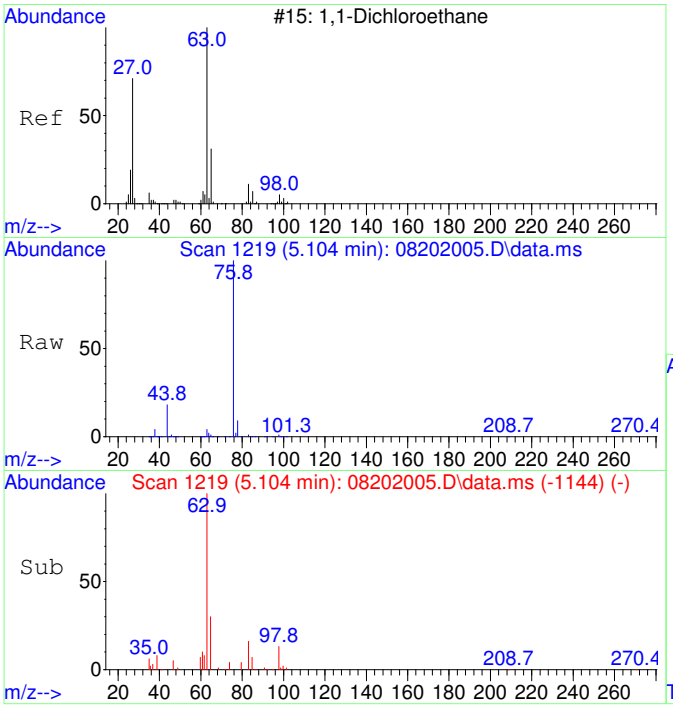


#27
trans-1,2-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 4.401 min Scan# 1113
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 61 Resp: 86233

Ion	Ratio	Lower	Upper
61	100		
96	59.5	49.0	109.0
97	0.1	20.5	80.5#

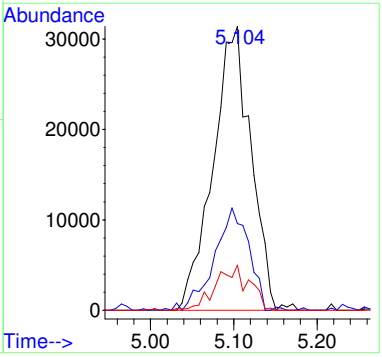


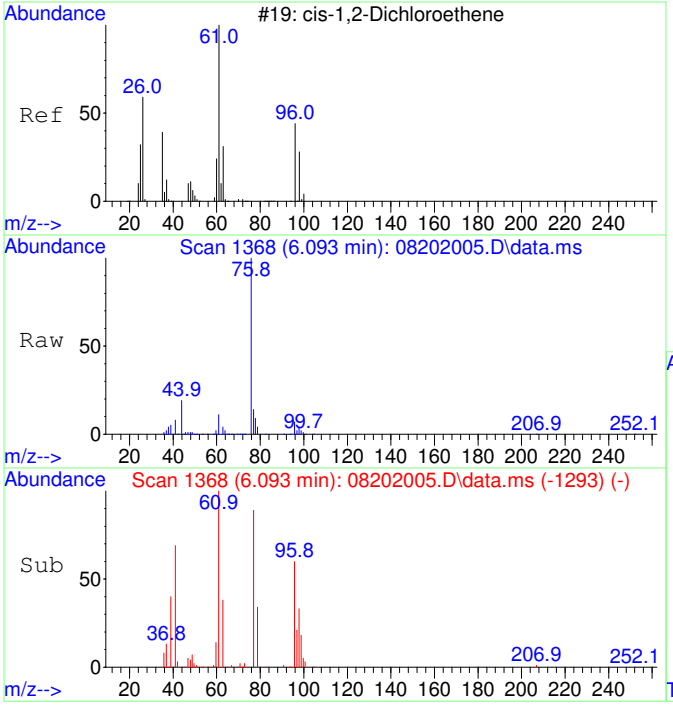


#28
1,1-Dichloroethane SCAN
Concen: 5000.00 ug/L
RT: 5.104 min Scan# 1219
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 63 Resp: 99798

Ion	Ratio	Lower	Upper
63	100		
65	32.7	1.3	61.3
83	14.0	0.0	45.9

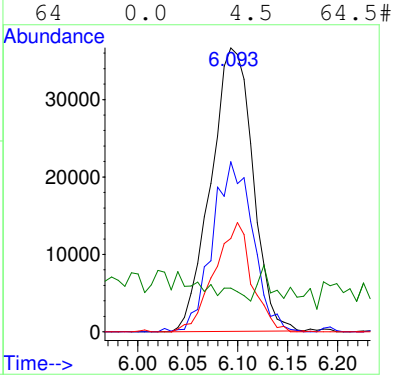


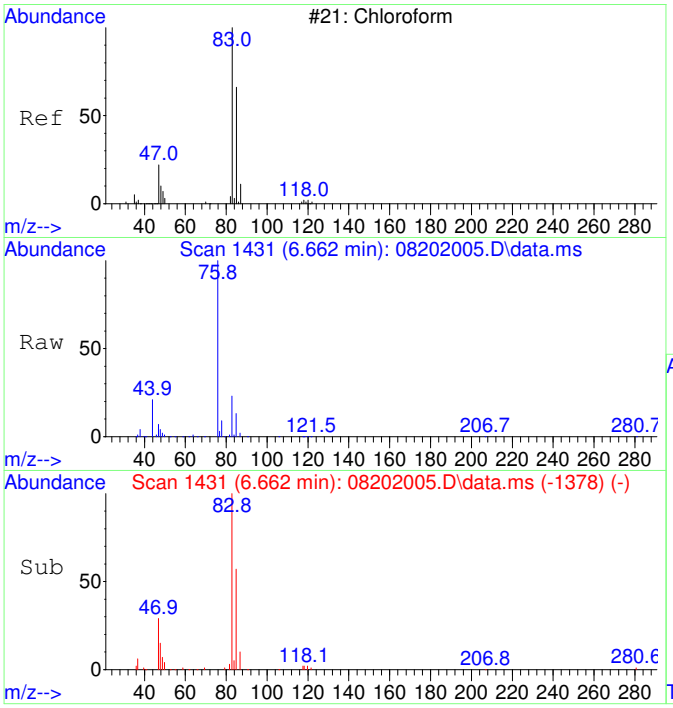


#29
cis-1,2-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 61 Resp: 106924

Ion	Ratio	Lower	Upper
61	100		
96	57.4	39.9	99.9
98	34.6	13.5	73.5
64	0.0	4.5	64.5#

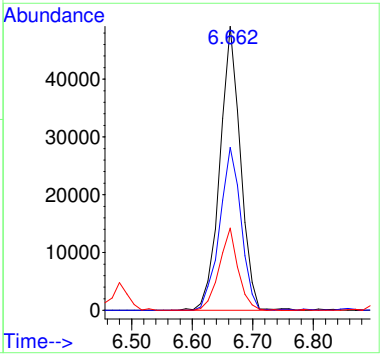


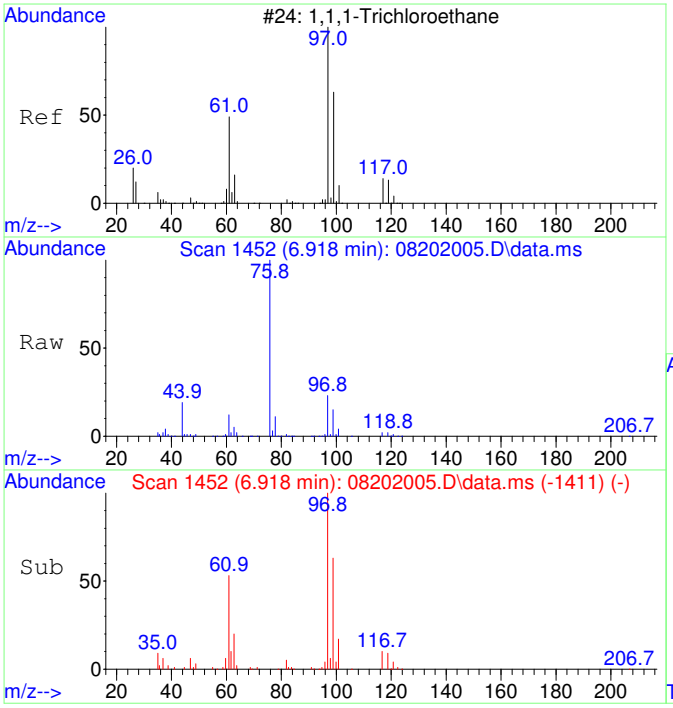


#30
Chloroform SCAN
Concen: 5000.00 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 83 Resp: 115974

Ion	Ratio	Lower	Upper
83	100		
85	59.6	34.6	94.6
47	26.8	0.0	53.4

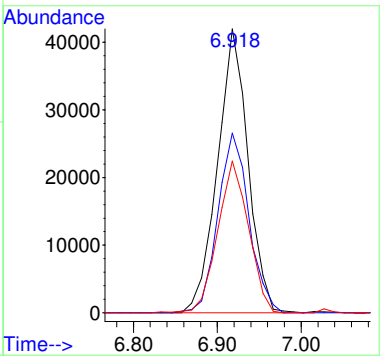


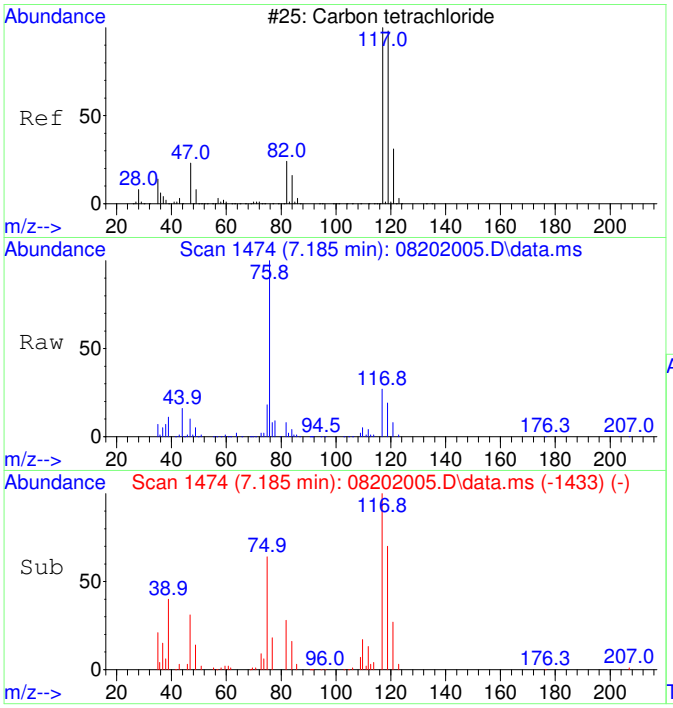


#31
1,1,1-Trichloroethane SCAN
Concen: 5000.00 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 97 Resp: 105685

Ion	Ratio	Lower	Upper
97	100		
99	64.5	43.6	103.6
61	54.2	18.0	78.0

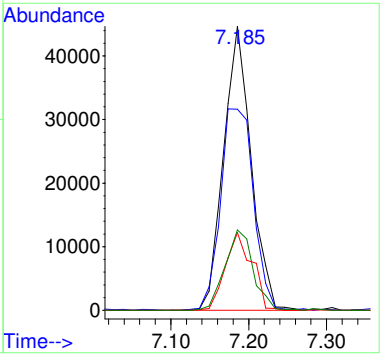


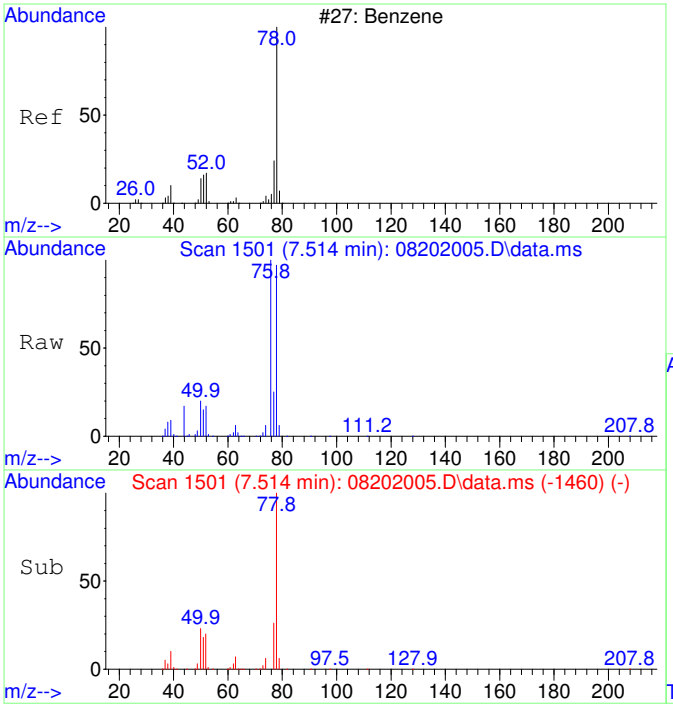


#32
Carbon tetrachloride SCAN
Concen: 5000.00 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:117 Resp: 110241

Ion	Ratio	Lower	Upper
117	100		
119	85.3	75.5	135.5
121	26.6	0.0	58.8
82	29.0	0.0	59.2

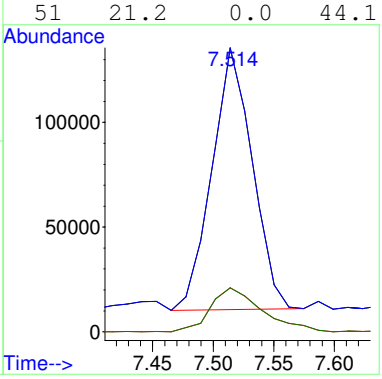


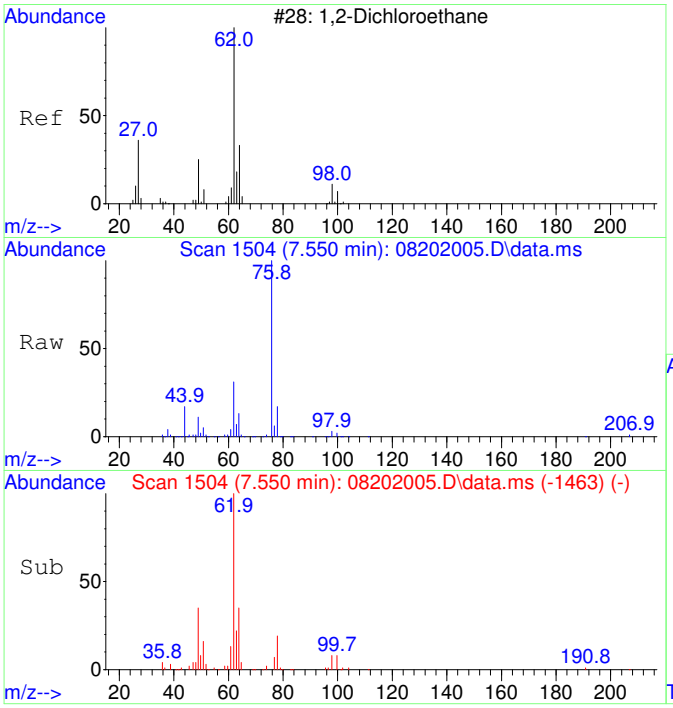


#33
Benzene SCAN
Concen: 5000.00 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 78 Resp: 290990

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	21.2	0.0	47.9
51	21.2	0.0	44.1

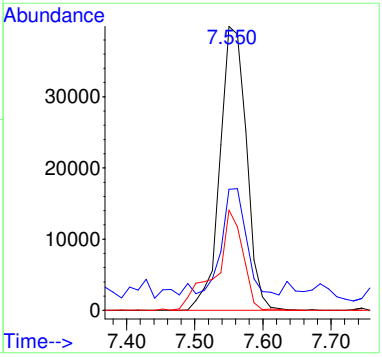


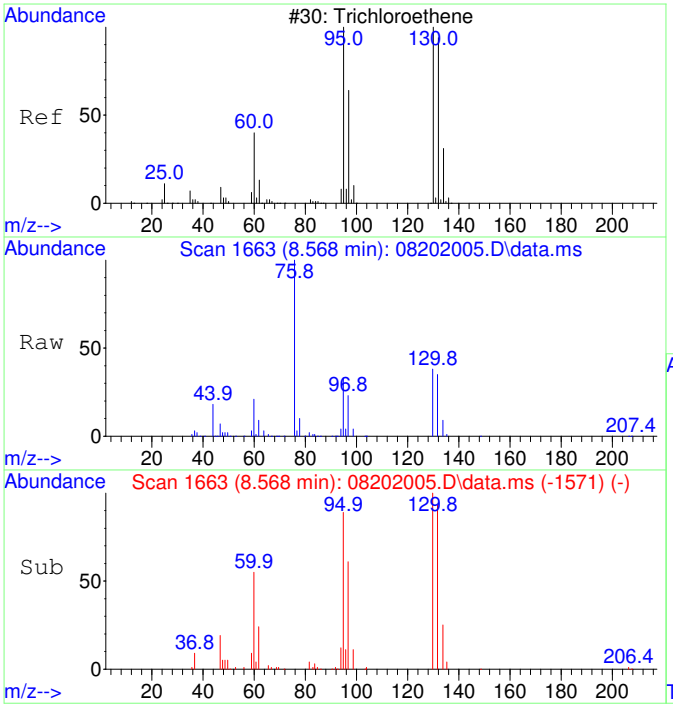


#34
1,2-Dichloroethane SCAN
Concen: 5000.00 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 62 Resp: 107449

Ion	Ratio	Lower	Upper
62	100		
64	33.6	5.2	65.2
49	36.2	3.9	63.9

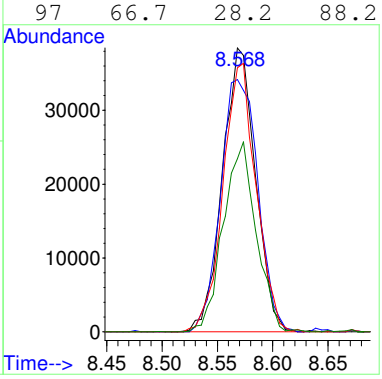


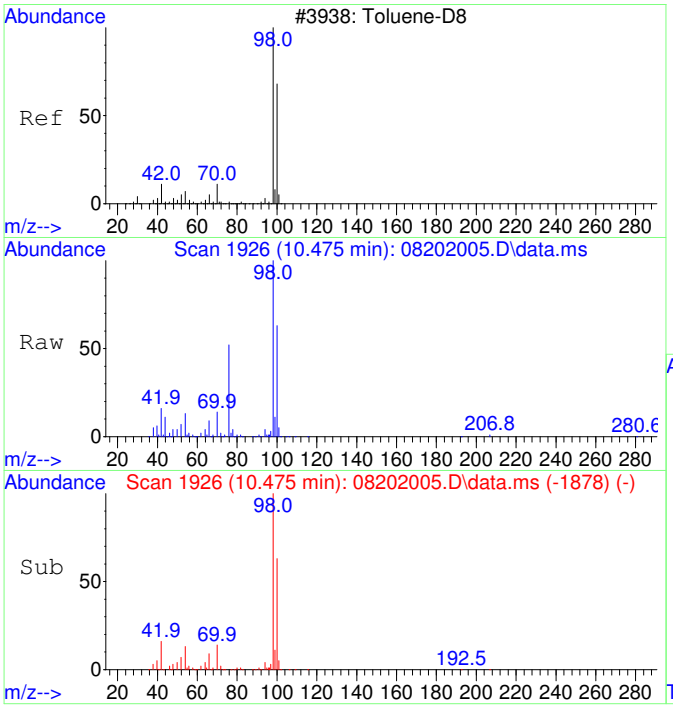


#35
Trichloroethene SCAN
Concen: 5000.00 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:130 Resp: 79966

Ion	Ratio	Lower	Upper
130	100		
95	100.5	60.5	120.5
132	94.5	59.6	119.6
97	66.7	28.2	88.2

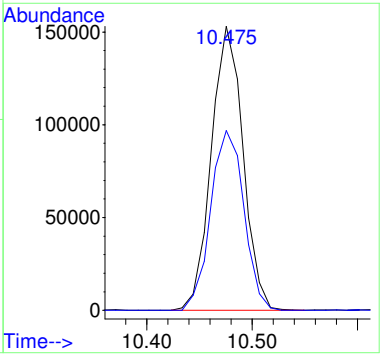


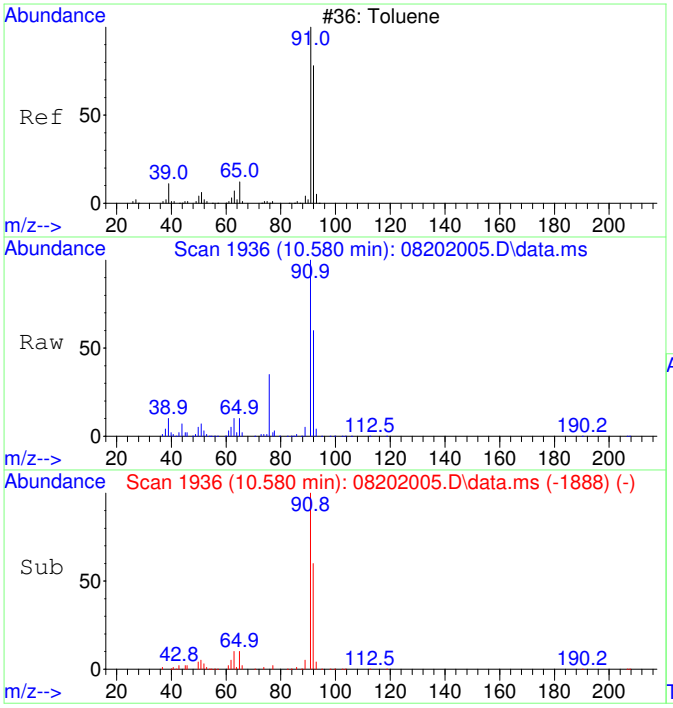


#36
Toluene-d8 SCAN
Concen: 5000.00 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 98 Resp: 320910

Ion	Ratio	Lower	Upper
98	100		
100	66.2	40.0	100.0

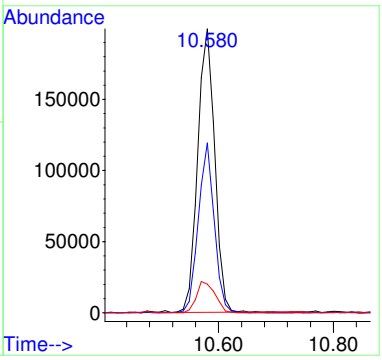


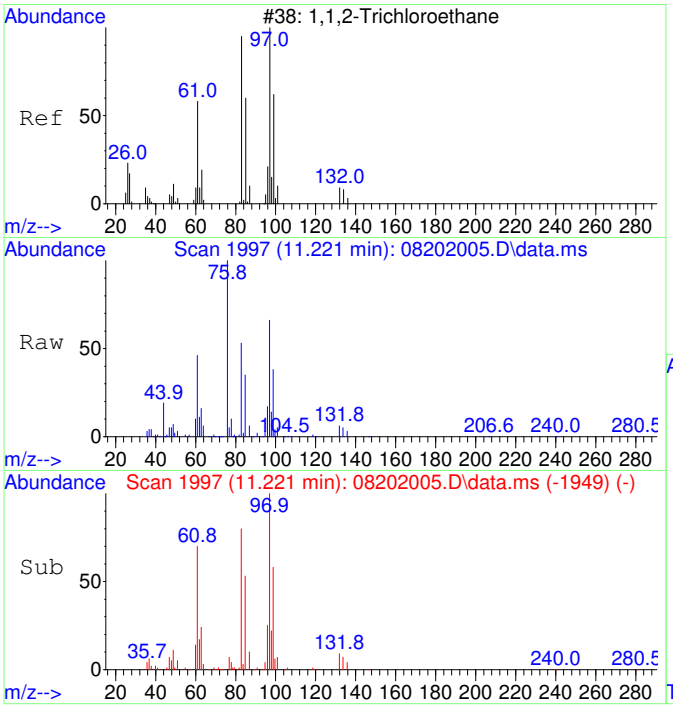


#37
Toluene SCAN
Concen: 5000.00 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 91 Resp: 410973

Ion	Ratio	Lower	Upper
91	100		
92	56.0	28.3	88.3
65	11.9	0.0	41.0

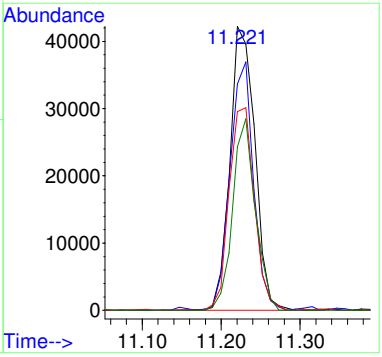


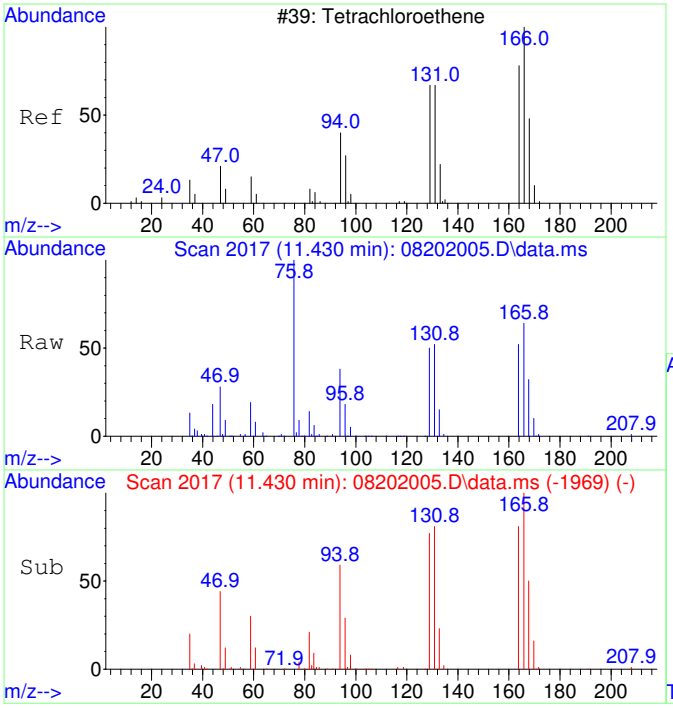


#38
1,1,2-Trichloroethane SCAN
Concen: 5000.00 ug/L
RT: 11.221 min Scan# 1997
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 97 Resp: 92246

Ion	Ratio	Lower	Upper
97	100		
83	82.6	57.7	117.7
61	72.3	32.1	92.1
99	61.4	36.7	96.7

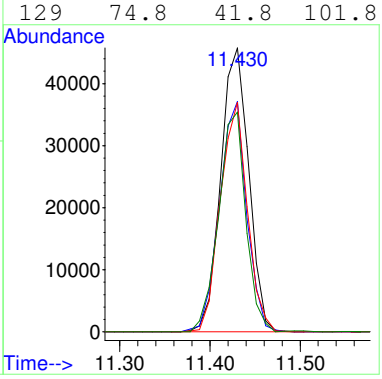


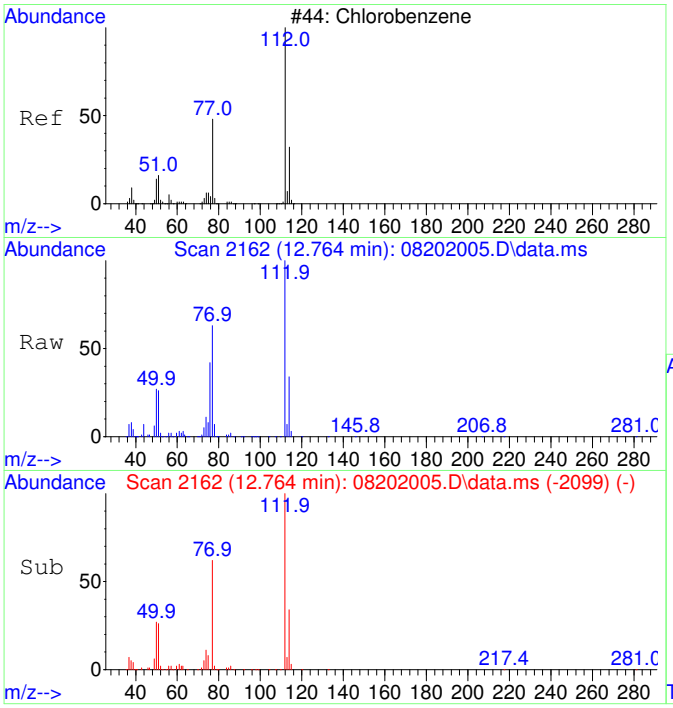


#39
Tetrachloroethene SCAN
Concen: 5000.00 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:166 Resp: 98735

Ion	Ratio	Lower	Upper
166	100		
164	79.1	50.9	110.9
131	78.0	38.7	98.7
129	74.8	41.8	101.8

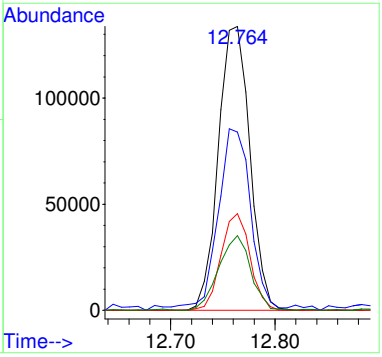


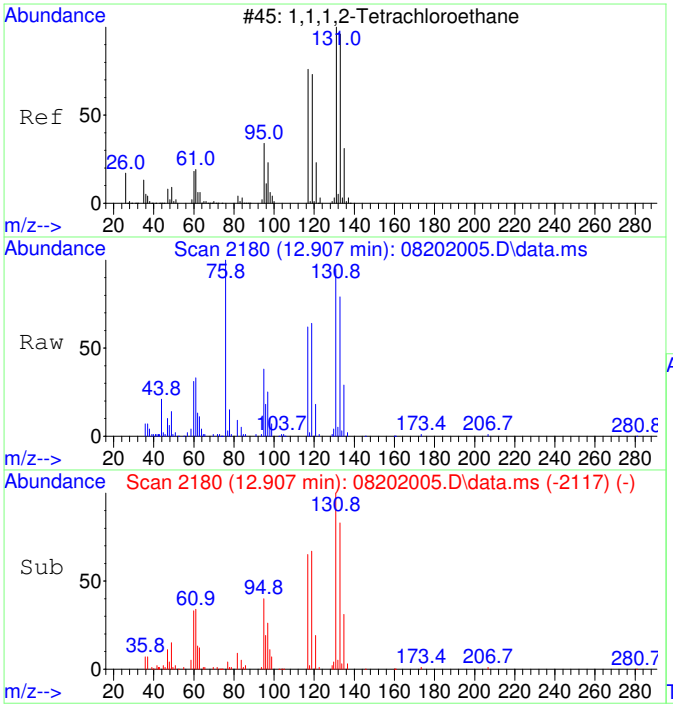


#40
Chlorobenzene SCAN
Concen: 5000.00 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:112 Resp: 280827

Ion	Ratio	Lower	Upper
112	100		
77	65.3	28.2	88.2
114	31.4	2.3	62.3
51	26.6	0.0	50.1

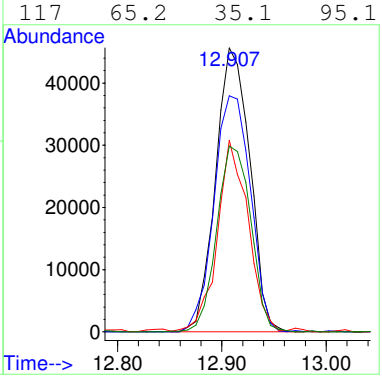


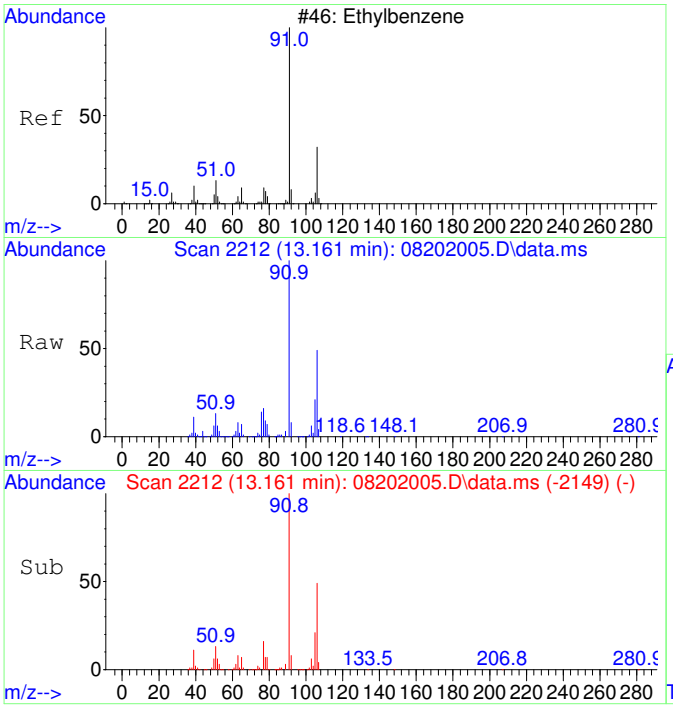


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 5000.00 ug/L
RT: 12.907 min Scan# 2180
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:131 Resp: 103928

Ion	Ratio	Lower	Upper
131	100		
133	88.7	66.9	126.9
119	59.8	40.4	100.4
117	65.2	35.1	95.1

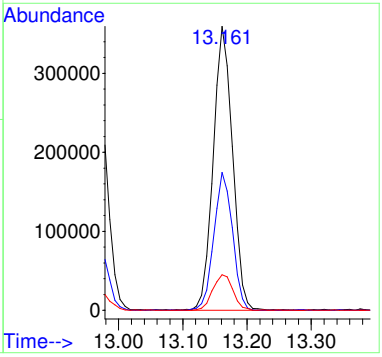


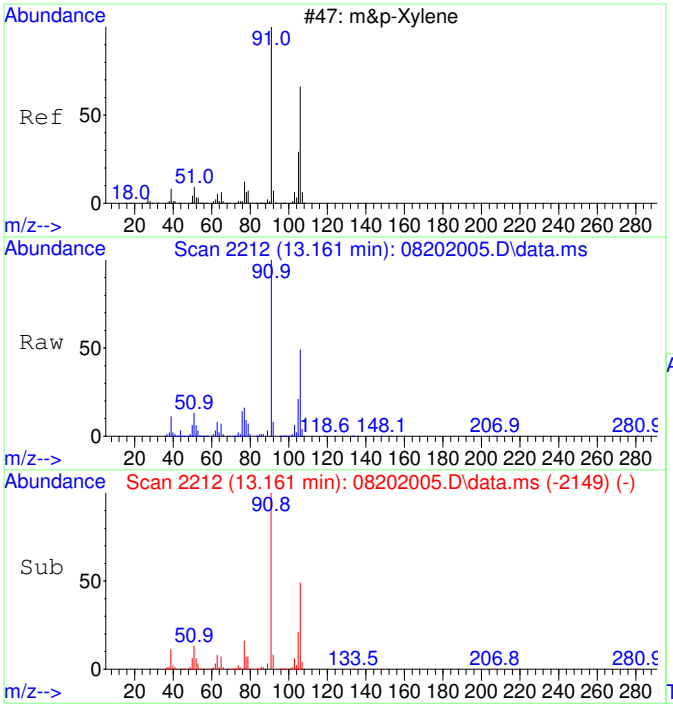


#42
Ethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 91 Resp: 748721

Ion	Ratio	Lower	Upper
91	100		
106	46.7	23.1	83.1
51	13.1	0.0	40.1

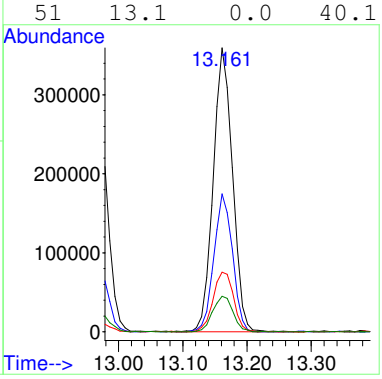


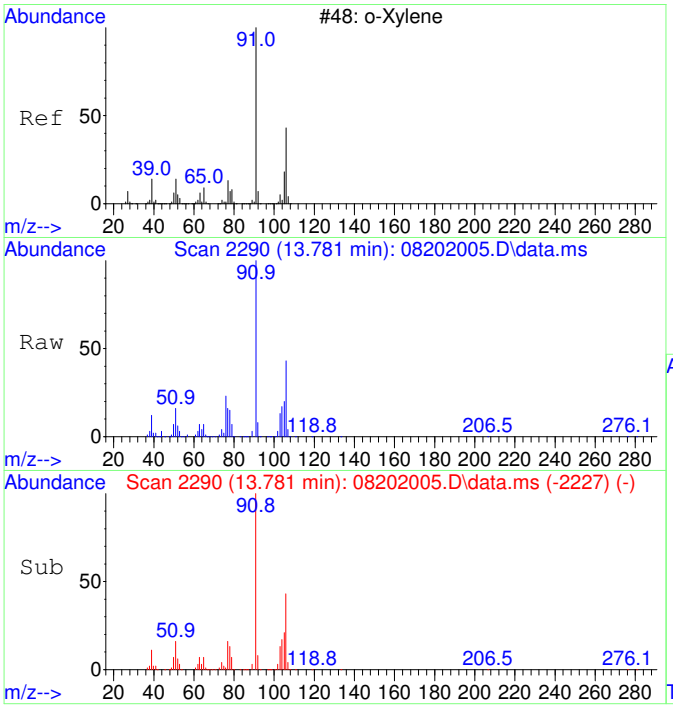


#43
m&p-Xylene SCAN
Concen: 5000.00 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 91 Resp: 748721

Ion	Ratio	Lower	Upper
91	100		
106	46.7	23.1	83.1
105	22.5	0.0	54.7
51	13.1	0.0	40.1

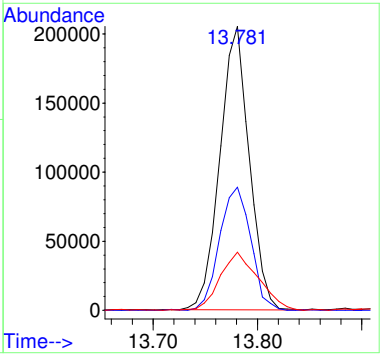


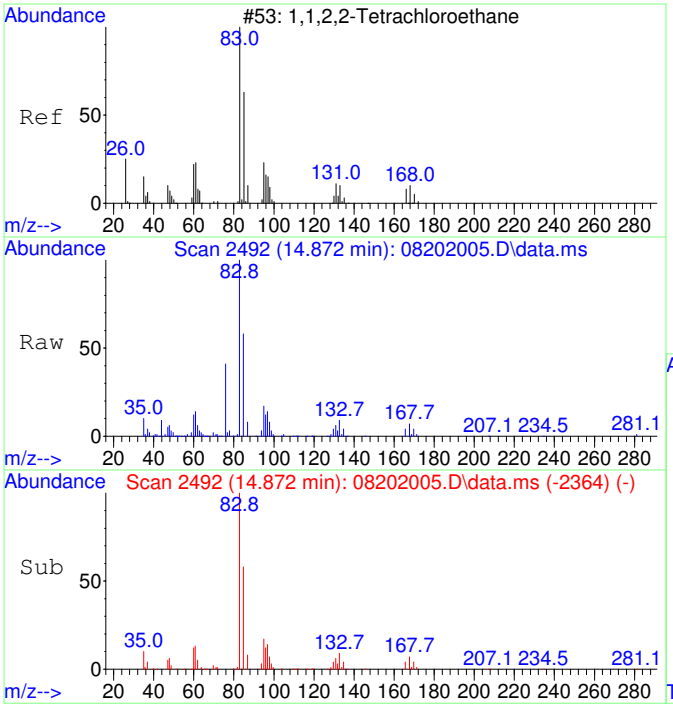


#44
o-Xylene SCAN
Concen: 5000.00 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 91 Resp: 400772

Ion	Ratio	Lower	Upper
91	100		
106	46.3	18.0	78.0
105	26.7	0.0	56.6

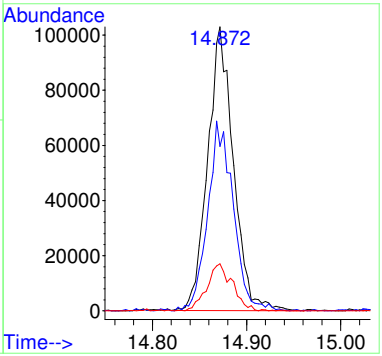


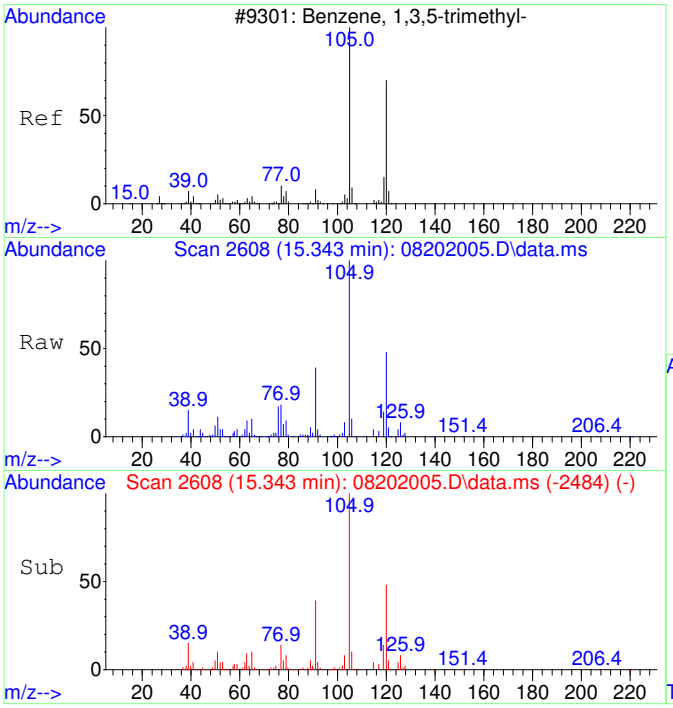


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 5000.00 ug/L
RT: 14.872 min Scan# 2492
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 83 Resp: 195422

Ion	Ratio	Lower	Upper
83	100		
85	66.2	35.9	95.9
95	16.2	0.0	47.4

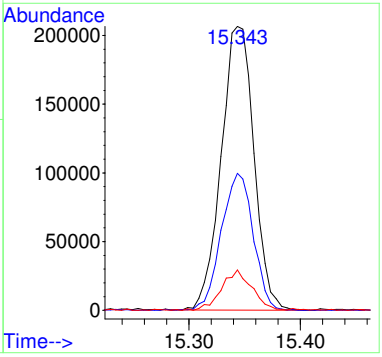


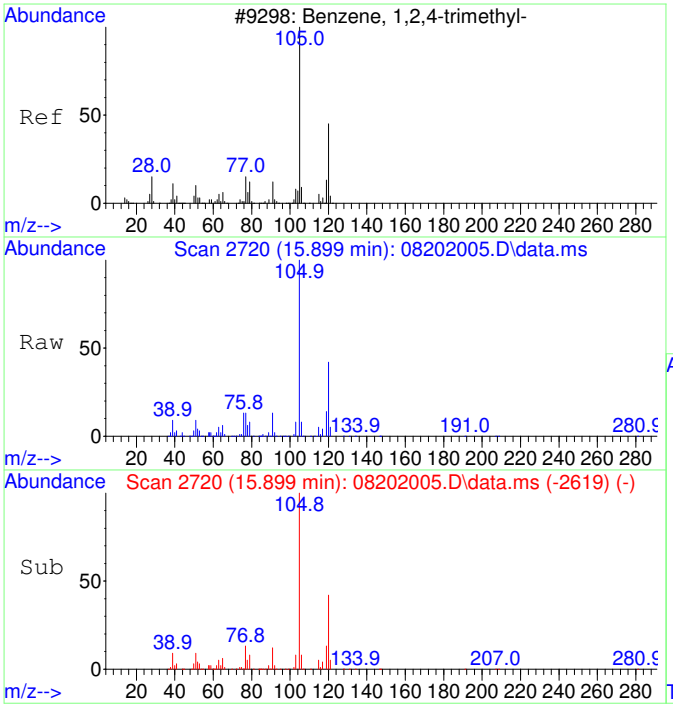


#46
1,3,5-Trimethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 15.343 min Scan# 2608
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:105 Resp: 422373

Ion	Ratio	Lower	Upper
105	100		
120	46.9	18.3	78.3
119	12.9	0.0	43.1

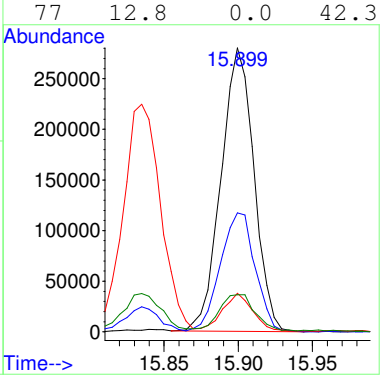


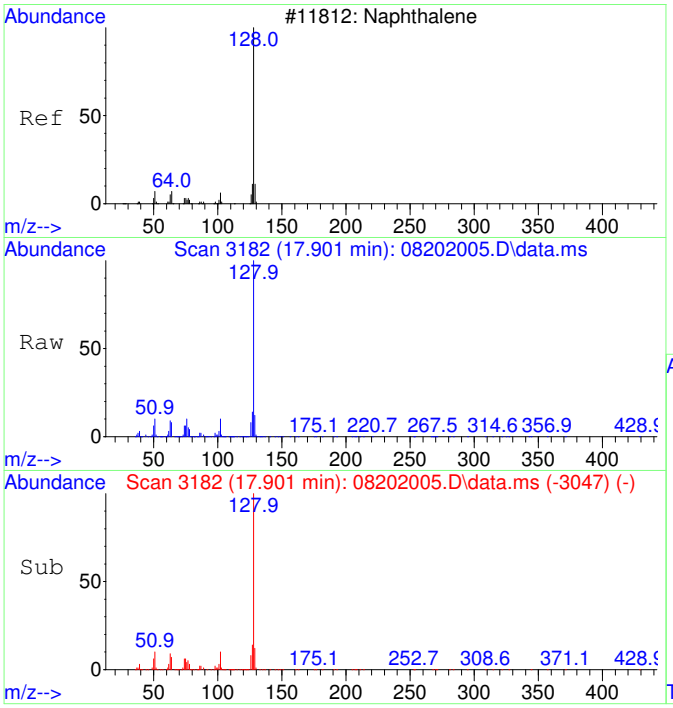


#47
1,2,4-Trimethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:105 Resp: 432181

Ion	Ratio	Lower	Upper
105	100		
120	43.9	16.9	76.9
119	10.9	0.0	41.9
77	12.8	0.0	42.3

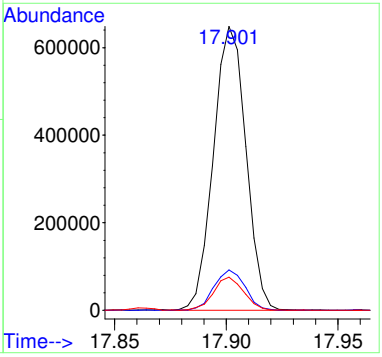




#48
Naphthalene SCAN
Concen: 5000.00 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:128 Resp: 653960

Ion	Ratio	Lower	Upper
128	100		
127	13.7	0.0	44.0
129	10.9	0.0	40.8



S20H039-CAL4

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202006.D
Acq On : 20 Aug 2020 16:37
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL4
Misc : 2030071 1 mg/L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 08:31:08 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration

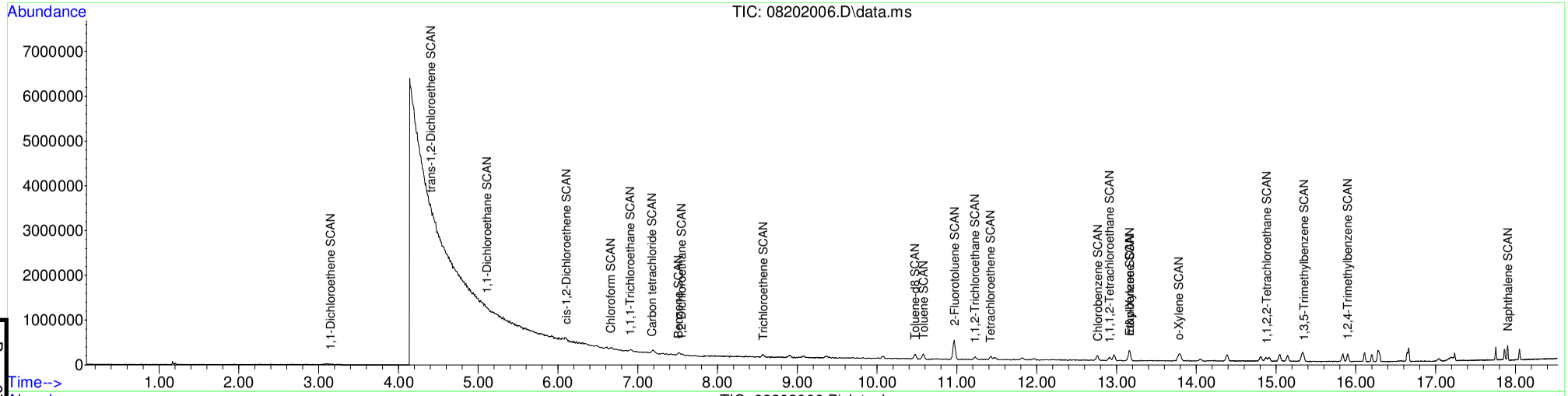
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.959	109	620555	5000.00	ug/L	-0.01
System Monitoring Compounds						
12) Toluene-d8	10.477	98	134499	1107.17	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 22.14%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.089	61	27036	990.97	ug/L	83
3] trans-1,2-Dichloroethene	4.402	61	30539	1066.69	ug/L	99
4] 1,1-Dichloroethane	5.099	63	38542	1081.47	ug/L	99
5] cis-1,2-Dichloroethene	6.094	61	41004	1089.98	ug/L	99
6] Chloroform	6.664	83	41060	1066.37	ug/L	100
7] 1,1,1-Trichloroethane	6.919	97	44677	1068.41	ug/L	99
8] Carbon tetrachloride	7.187	117	42146	1070.84	ug/L	99
9] Benzene	7.515	78	112745	1069.32	ug/L	95
10] 1,2-Dichloroethane	7.552	62	41424	1100.58	ug/L	98
11] Trichloroethene	8.569	130	34670	1092.13	ug/L	94
13] Toluene	10.571	91	167580	1082.02	ug/L	99
14] 1,1,2-Trichloroethane	11.222	97	36313	1076.02	ug/L	97
15] Tetrachloroethene	11.421	166	48775	1088.22	ug/L	100
16] Chlorobenzene	12.757	112	121629	1096.77	ug/L	92
17] 1,1,1,2-Tetrachloroethane	12.908	131	43449	1093.42	ug/L	99
18] Ethylbenzene	12.964	91	207872	1102.67	ug/L	97
19] m&p-Xylene	13.162	91	320098	2172.54	ug/L	96
20] o-Xylene	13.774	91	169989	1079.90	ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.873	83	76025	1089.75	ug/L	99
22] 1,3,5-Trimethylbenzene	15.340	105	182134	1087.07	ug/L	96
23] 1,2,4-Trimethylbenzene	15.896	105	184398	1059.58	ug/L	96
24] Naphthalene	17.900	128	301171	1094.95	ug/L	100
25) 2-Fluorotoluene SCAN	10.969	109	306378	5064.71	ug/L	99
26) 1,1-Dichloroethene SCAN	3.148	61	1349	105.01	ug/L	73
27) trans-1,2-Dichloroethe...	4.408	61	18304	1151.40	ug/L #	25
28) 1,1-Dichloroethane SCAN	5.111	63	19854	1079.15	ug/L	85
29) cis-1,2-Dichloroethene...	6.106	61	25480	1292.65	ug/L #	35
30) Chloroform SCAN	6.662	83	23662	1106.74	ug/L	91
31) 1,1,1-Trichloroethane ...	6.906	97	25181	1292.45	ug/L	79
32) Carbon tetrachloride SCAN	7.173	117	20098	988.93	ug/L	88
33) Benzene SCAN	7.514	78	64447	1201.38	ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	26922	1359.13	ug/L #	40
35) Trichloroethene SCAN	8.573	130	17410	1181.00	ug/L	86
36) Toluene-d8 SCAN	10.475	98	71562	1209.63	ug/L	99
37) Toluene SCAN	10.580	91	96865	1278.52	ug/L	96
38) 1,1,2-Trichloroethane ...	11.220	97	23045	1355.14	ug/L	87
39) Tetrachloroethene SCAN	11.420	166	21523	1182.46	ug/L	95
40) Chlorobenzene SCAN	12.764	112	61825	1194.21	ug/L	81
41) 1,1,1,2-Tetrachloroeth...	12.907	131	20506	1070.30	ug/L	93
42) Ethylbenzene SCAN	13.161	91	169926	1231.10	ug/L	90
43) m&p-Xylene SCAN	13.161	91	169926	1231.10	ug/L	91
44) o-Xylene SCAN	13.781	91	84347	1141.64	ug/L	97
45) 1,1,2,2-Tetrachloroeth...	14.879	83	43868	1217.67	ug/L #	28
46) 1,3,5-Trimethylbenzene...	15.348	105	88623	1138.17	ug/L	99
47) 1,2,4-Trimethylbenzene...	15.899	105	89148	1118.93	ug/L	93
48) Naphthalene SCAN	17.902	128	131675	1092.21	ug/L	96

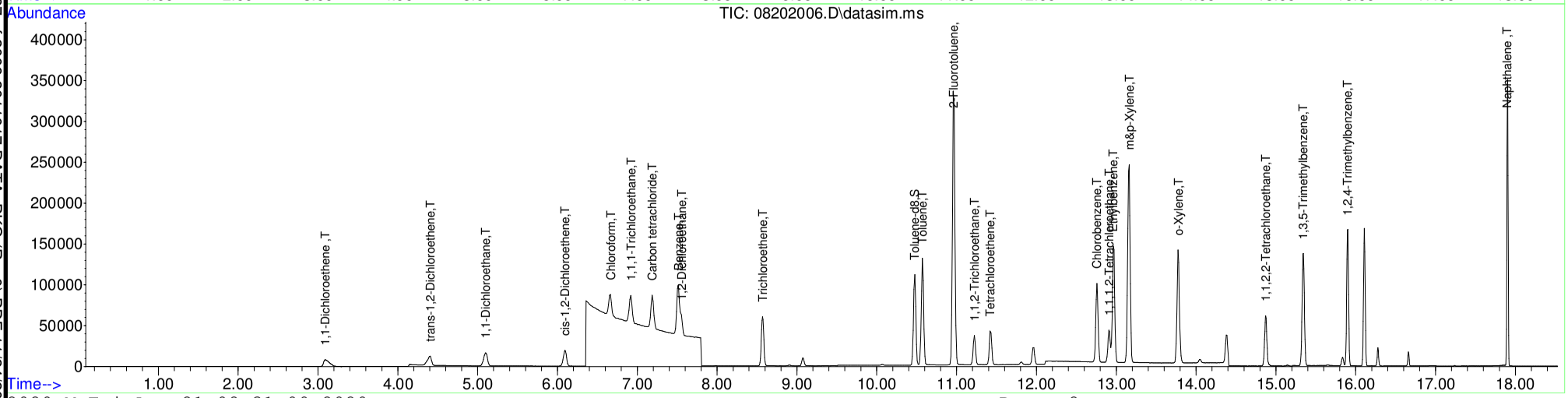
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202006.D
Acq On : 20 Aug 2020 16:37
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL4
Misc : 2030071 1 mg/L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 08:31:08 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration





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S20H039-CAL5

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202007.D
Acq On : 20 Aug 2020 17:01
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL5
Misc : 2030072 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 21 08:31:11 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration

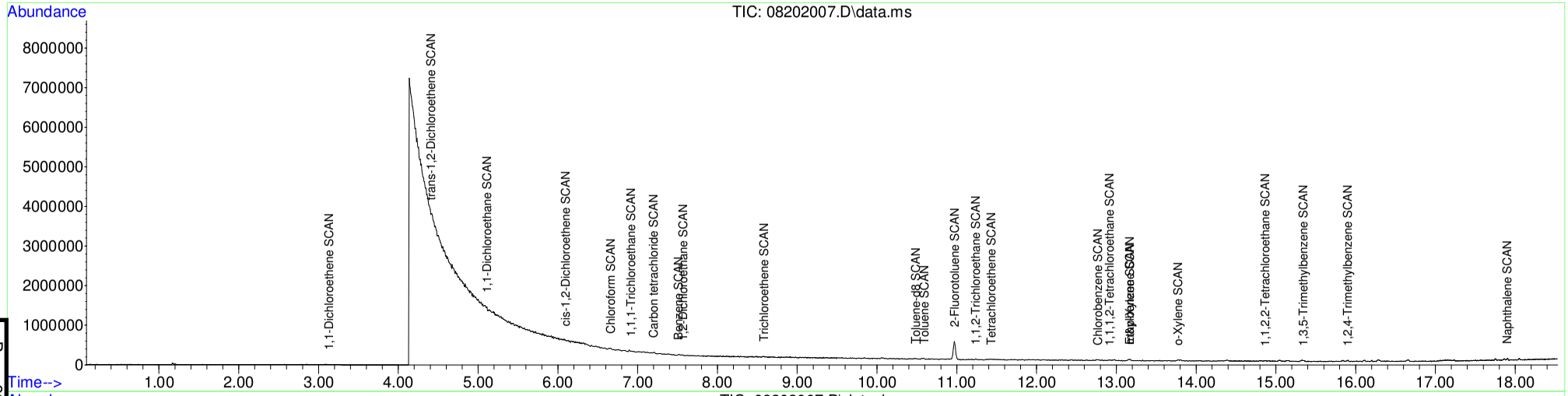
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	687675	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	18291	135.87	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 2.72%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	4736	156.65	ug/L	87
3] trans-1,2-Dichloroethene	4.396	61	4743	149.50	ug/L	88
4] 1,1-Dichloroethane	5.099	63	6017	152.35	ug/L	86
5] cis-1,2-Dichloroethene	6.094	61	6181	148.27	ug/L	99
6] Chloroform	6.664	83	6101	142.98	ug/L	95
7] 1,1,1-Trichloroethane	6.919	97	6374	137.55	ug/L	98
8] Carbon tetrachloride	7.187	117	5978	137.06	ug/L	98
9] Benzene	7.515	78	16396	140.33	ug/L	75
10] 1,2-Dichloroethane	7.552	62	6015	144.21	ug/L	80
11] Trichloroethene	8.575	130	4884	138.83	ug/L	93
13] Toluene	10.582	91	24264	141.38	ug/L	98
14] 1,1,2-Trichloroethane	11.232	97	5063	135.38	ug/L	97
15] Tetrachloroethene	11.432	166	6650	133.89	ug/L	99
16] Chlorobenzene	12.765	112	16465	133.98	ug/L	91
17] 1,1,1,2-Tetrachloroethane	12.908	131	5876	133.44	ug/L	98
18] Ethylbenzene	12.972	91	29078	139.19	ug/L	97
19] m&p-Xylene	13.163	91	45947	281.41	ug/L	95
20] o-Xylene	13.774	91	23631	135.47	ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.873	83	10329	133.61	ug/L	99
22] 1,3,5-Trimethylbenzene	15.344	105	24949	134.37	ug/L	97
23] 1,2,4-Trimethylbenzene	15.900	105	26485	137.33	ug/L	94
24] Naphthalene	17.903	128	41384	135.77	ug/L	100
25) 2-Fluorotoluene SCAN	10.969	109	332955	4966.84	ug/L	95
26) 1,1-Dichloroethene SCAN	3.126	61	434	30.49	ug/L	72
27) trans-1,2-Dichloroethe...	4.408	61	395	22.42	ug/L #	55
28) 1,1-Dichloroethane SCAN	5.111	63	2230	109.38	ug/L #	53
29) cis-1,2-Dichloroethene...	6.100	61	1391	63.68	ug/L #	33
30) Chloroform SCAN	6.663	83	4055	171.15	ug/L #	39
31) 1,1,1-Trichloroethane ...	6.918	97	4929	228.30	ug/L	78
32) Carbon tetrachloride SCAN	7.198	117	2800	124.33	ug/L #	65
33) Benzene SCAN	7.514	78	18871	317.45	ug/L	97
34) 1,2-Dichloroethane SCAN	7.563	62	3207	146.10	ug/L #	65
35) Trichloroethene SCAN	8.584	130	3166	193.80	ug/L	87
36) Toluene-d8 SCAN	10.486	98	12748	194.45	ug/L	64
37) Toluene SCAN	10.591	91	14371	171.17	ug/L	97
38) 1,1,2-Trichloroethane ...	11.231	97	4083	216.66	ug/L #	56
39) Tetrachloroethene SCAN	11.431	166	2646	131.18	ug/L #	67
40) Chlorobenzene SCAN	12.764	112	9698	169.04	ug/L #	35
41) 1,1,1,2-Tetrachloroeth...	12.915	131	3761	177.14	ug/L	95
42) Ethylbenzene SCAN	13.169	91	24198	158.20	ug/L	91
43) m&p-Xylene SCAN	13.169	91	24198	158.20	ug/L	93
44) o-Xylene SCAN	13.773	91	15595	190.48	ug/L	94
45) 1,1,2,2-Tetrachloroeth...	14.864	83	7082	177.39	ug/L #	39
46) 1,3,5-Trimethylbenzene...	15.337	105	14674	170.06	ug/L	95
47) 1,2,4-Trimethylbenzene...	15.898	105	13939	157.88	ug/L	82
48) Naphthalene SCAN	17.901	128	18555	138.89	ug/L	98

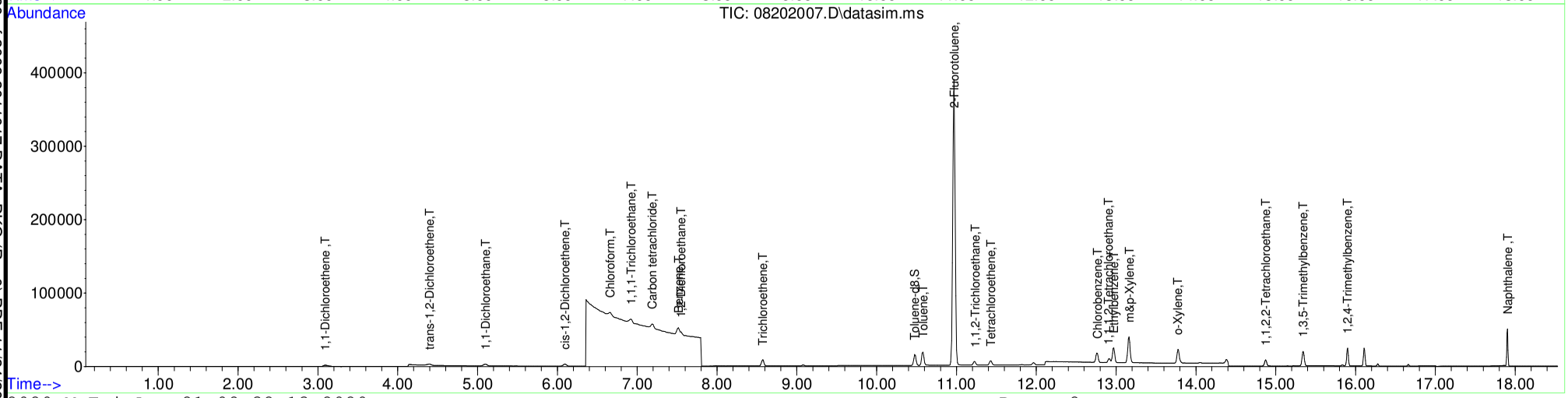
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202007.D
Acq On : 20 Aug 2020 17:01
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL5
Misc : 2030072 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 21 08:31:11 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration





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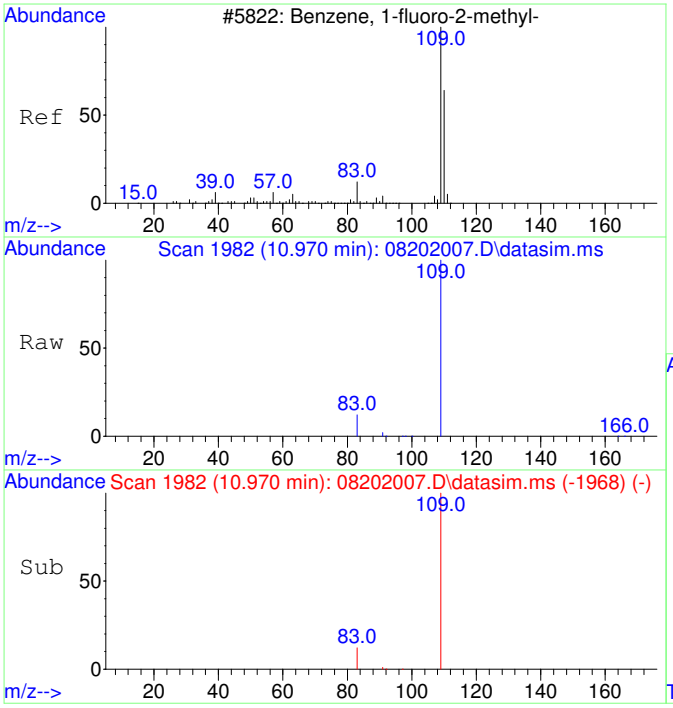
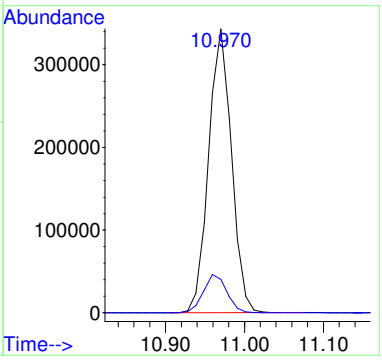
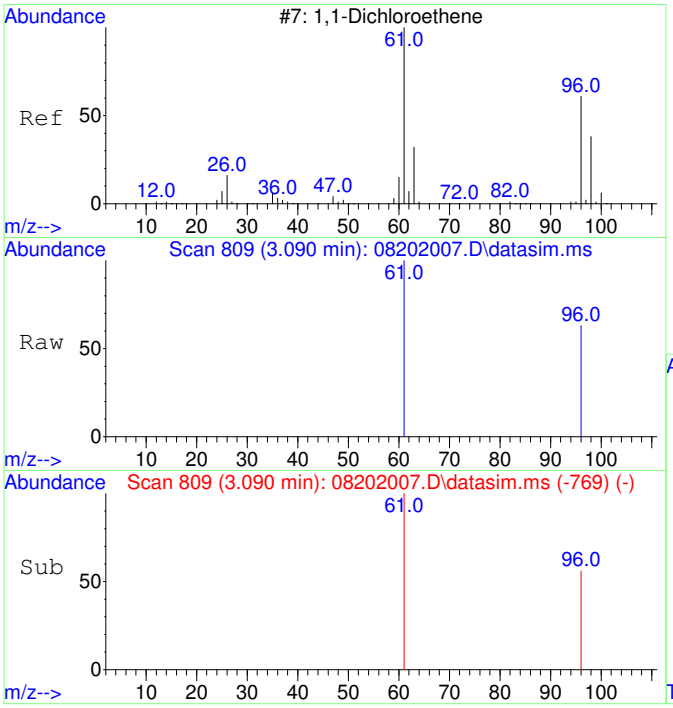


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:109 Resp: 687675

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

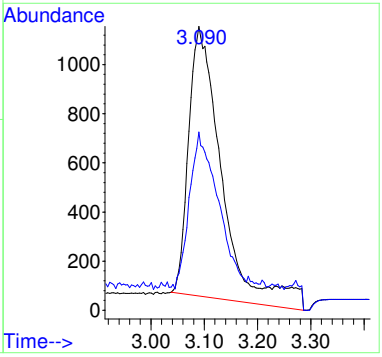




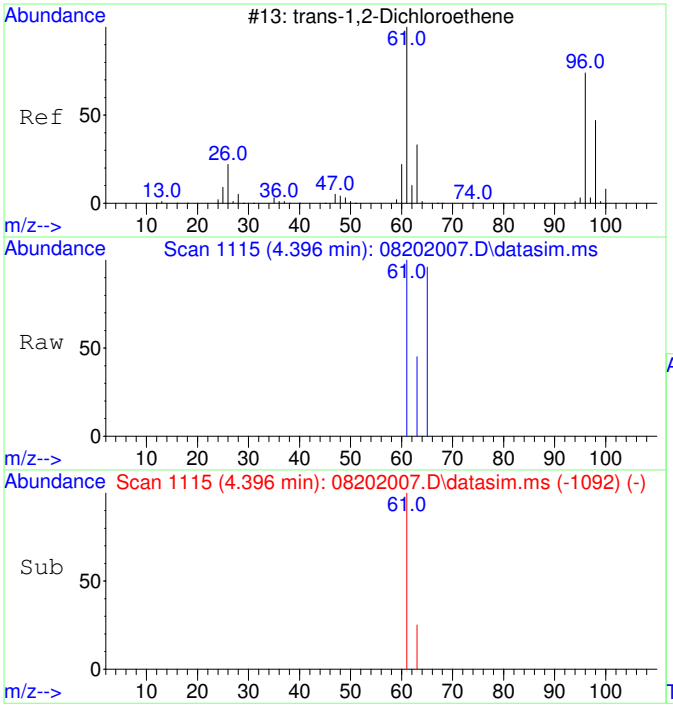
#2
1,1-Dichloroethene
Concen: 156.65 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 4736

Ion	Ratio	Lower	Upper
61	100		
96	56.8	37.2	97.2



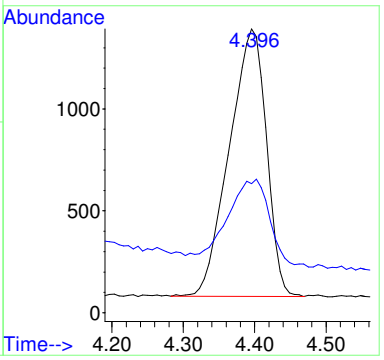
Before MI:
IMPROPER
BASELINE

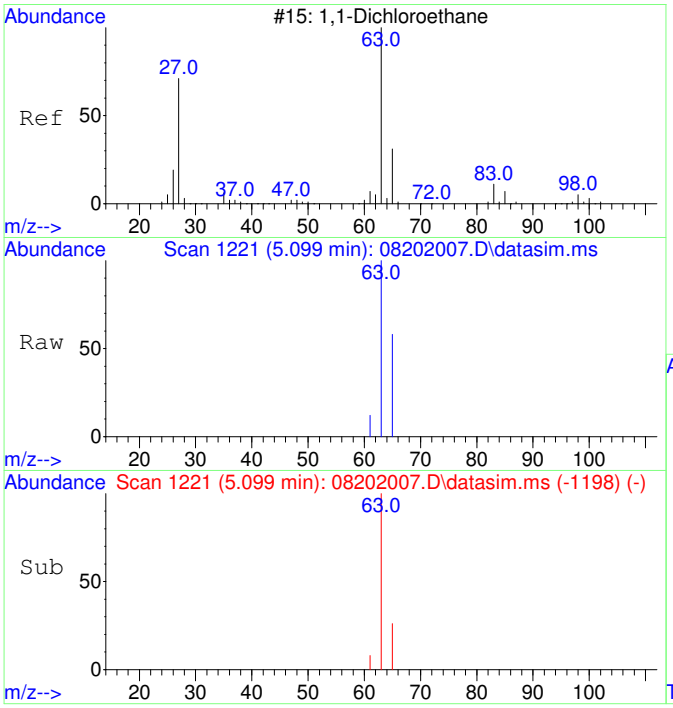


#3
trans-1,2-Dichloroethene
Concen: 149.50 ug/L
RT: 4.396 min Scan# 1115
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 4743

Ion	Ratio	Lower	Upper
61	100		
63	39.2	2.4	62.4

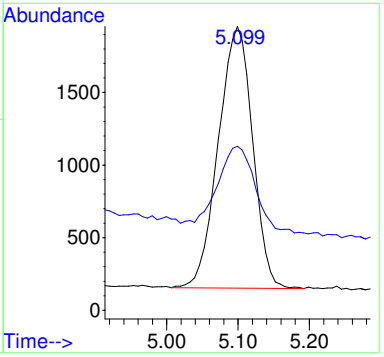


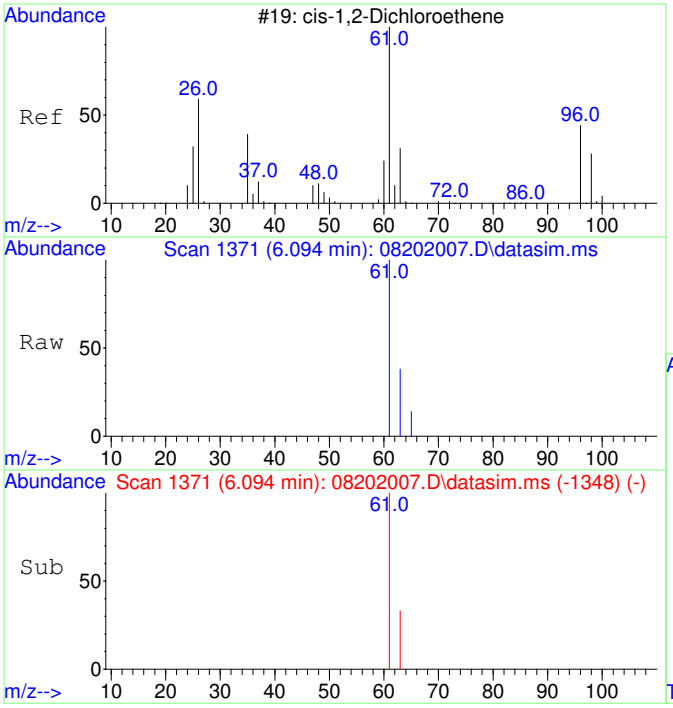


#4
1,1-Dichloroethane
Concen: 152.35 ug/L
RT: 5.099 min Scan# 1221
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 63 Resp: 6017

Ion	Ratio	Lower	Upper
63	100		
65	39.7	1.8	61.8

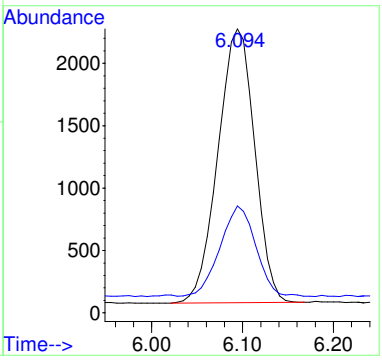


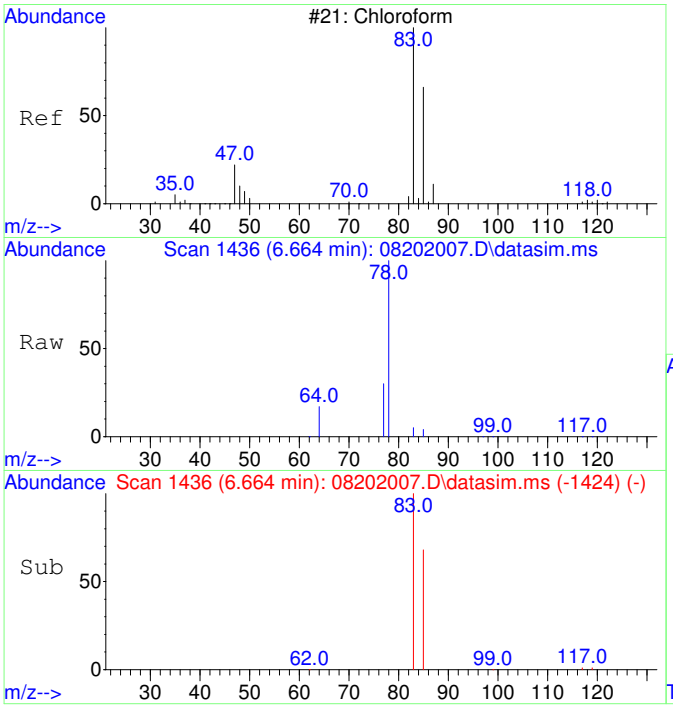


#5
cis-1,2-Dichloroethene
Concen: 148.27 ug/L
RT: 6.094 min Scan# 1371
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 6181

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

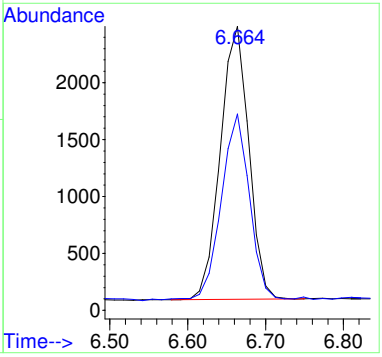


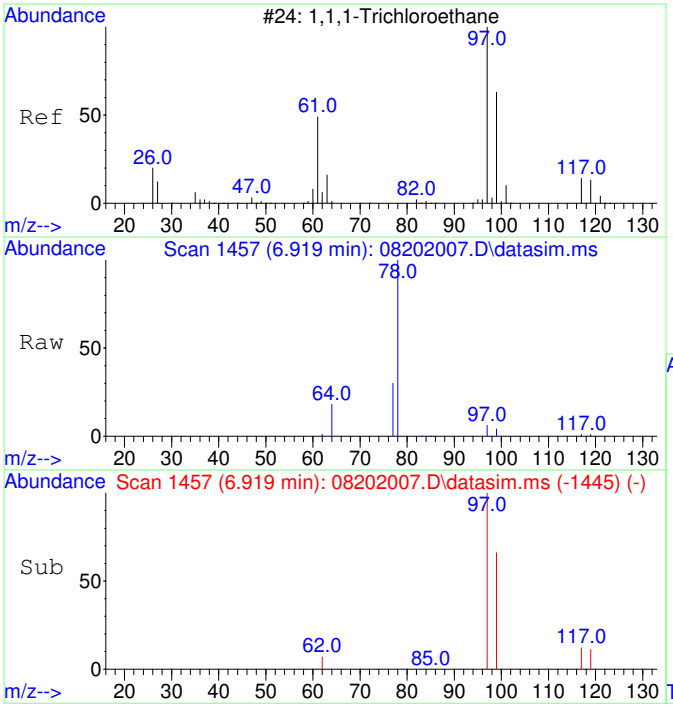


#6
Chloroform
Concen: 142.98 ug/L
RT: 6.664 min Scan# 1436
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 83 Resp: 6101

Ion	Ratio	Lower	Upper
83	100		
85	69.0	35.1	95.1

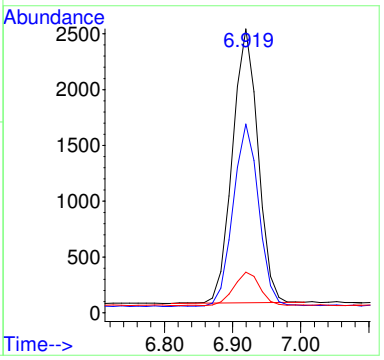


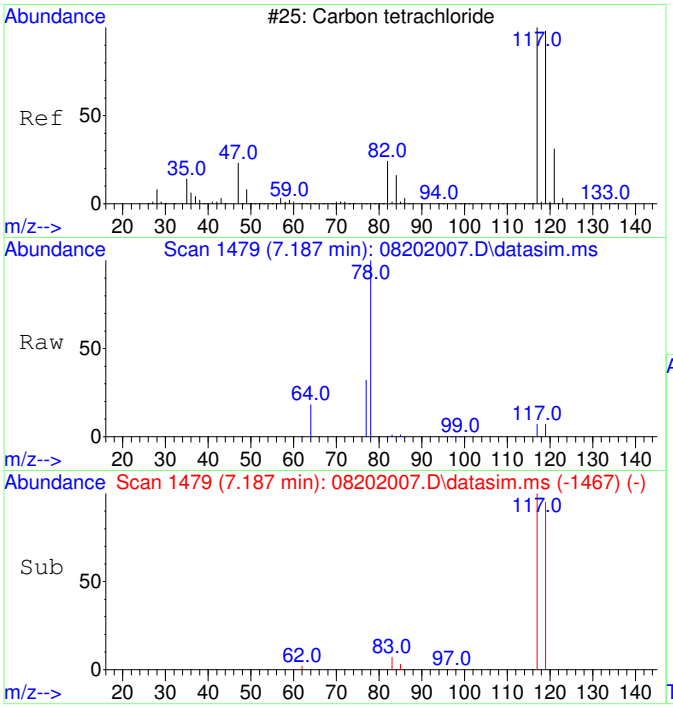


#7
1,1,1-Trichloroethane
Concen: 137.55 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 97 Resp: 6374

Ion	Ratio	Lower	Upper
97	100		
99	66.5	34.6	94.6
117	12.8	0.0	43.2

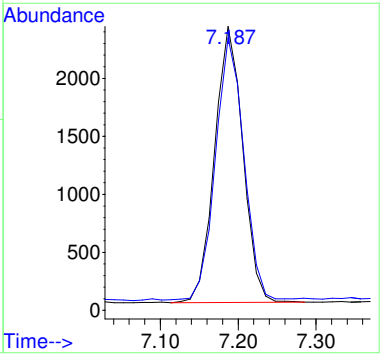


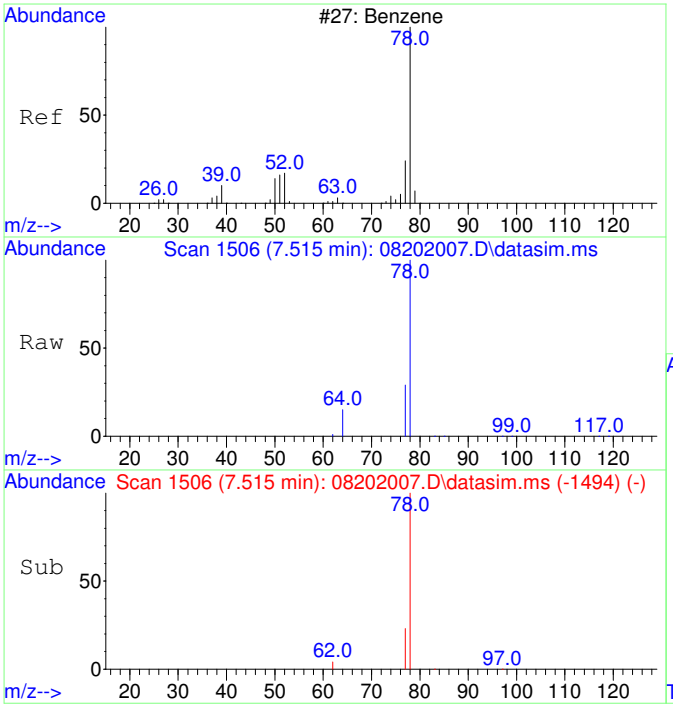


#8
Carbon tetrachloride
Concen: 137.06 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:117 Resp: 5978

Ion	Ratio	Lower	Upper
117	100		
119	94.6	66.4	126.4

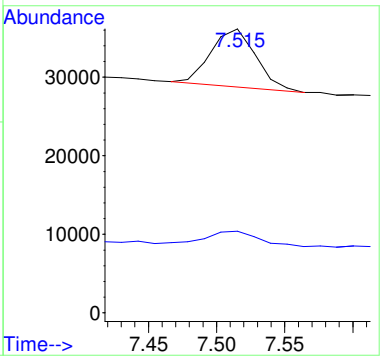


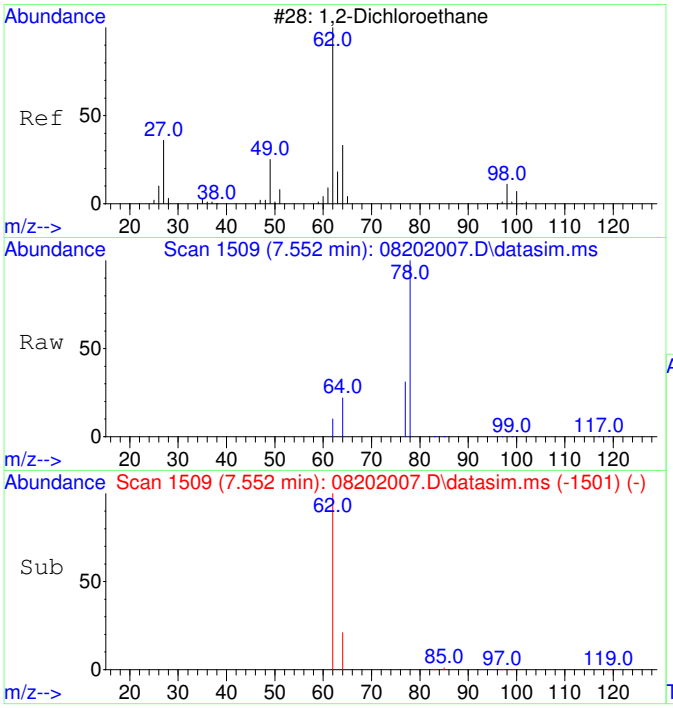


#9
Benzene
Concen: 140.33 ug/L
RT: 7.515 min Scan# 1506
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 78 Resp: 16396

Ion	Ratio	Lower	Upper
78	100		
77	35.6	0.0	53.2

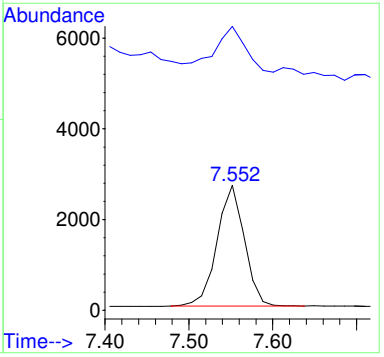


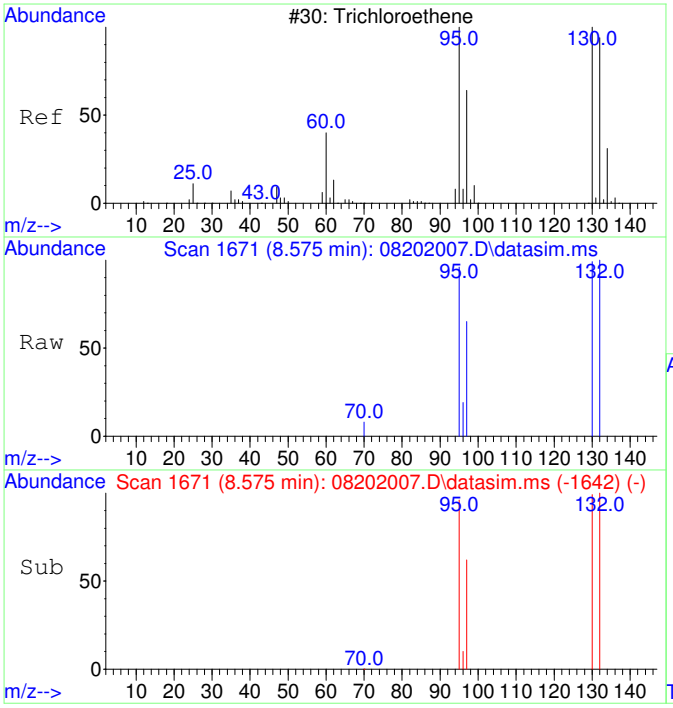


#10
1,2-Dichloroethane
Concen: 144.21 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 62 Resp: 6015

Ion	Ratio	Lower	Upper
62	100		
64	43.6	2.3	62.3

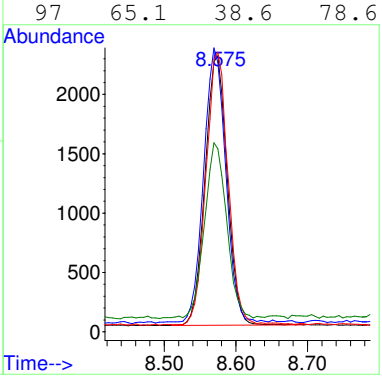


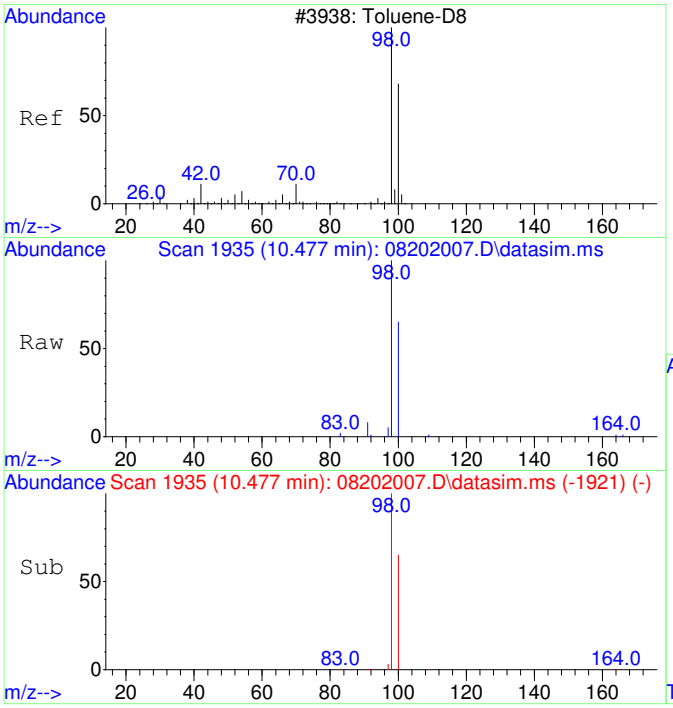


#11
Trichloroethene
Concen: 138.83 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.005 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:130 Resp: 4884

Ion	Ratio	Lower	Upper
130	100		
95	100.8	60.7	120.7
132	98.9	76.0	116.0
97	65.1	38.6	78.6

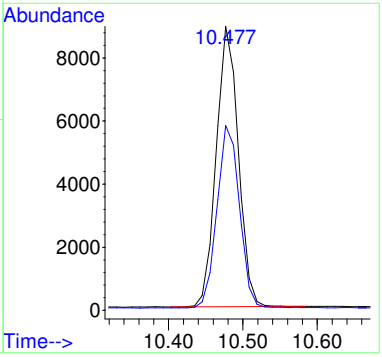


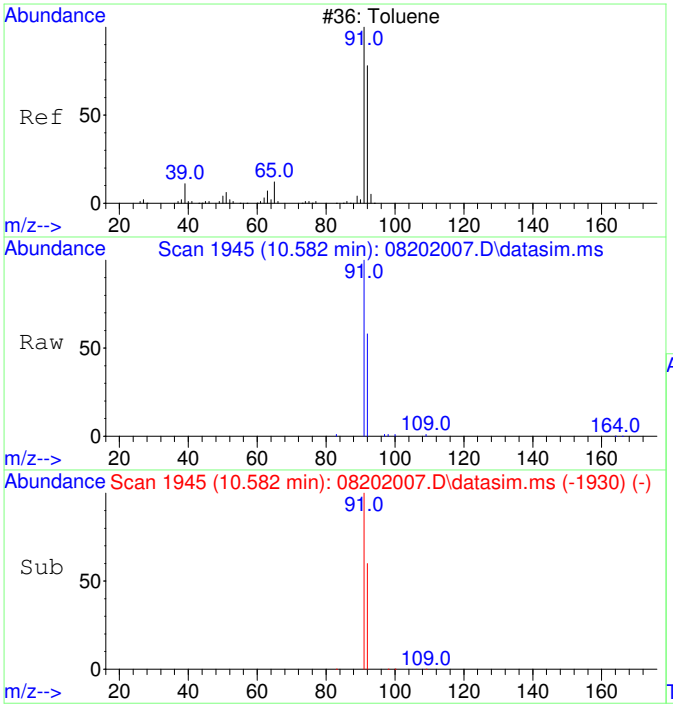


#12
Toluene-d8
Concen: 135.87 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 98 Resp: 18291

Ion	Ratio	Lower	Upper
98	100		
100	65.9	37.1	97.1

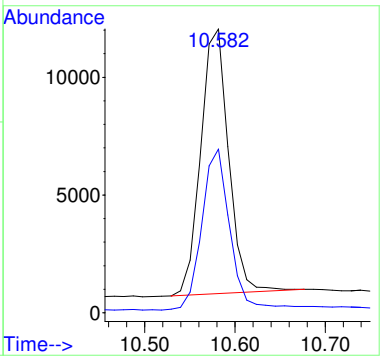


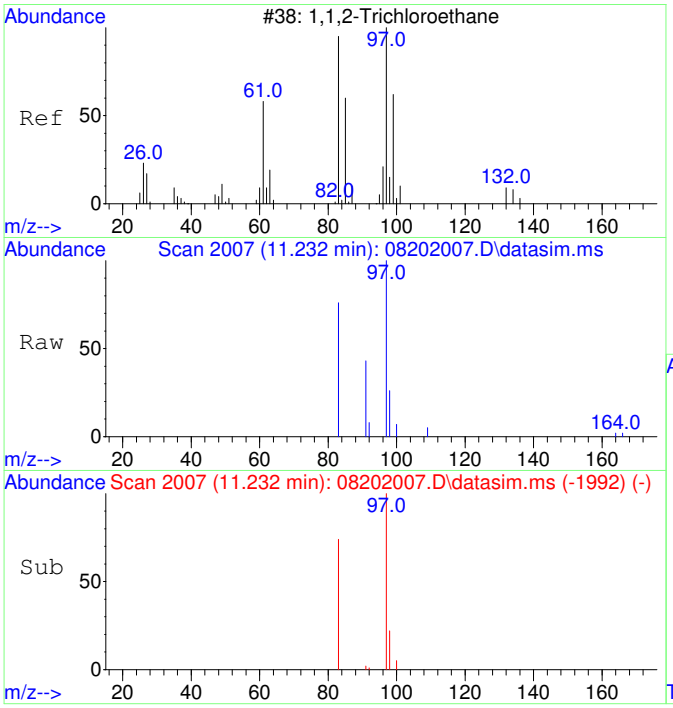


#13
Toluene
Concen: 141.38 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 24264

Ion	Ratio	Lower	Upper
91	100		
92	61.5	29.9	89.9

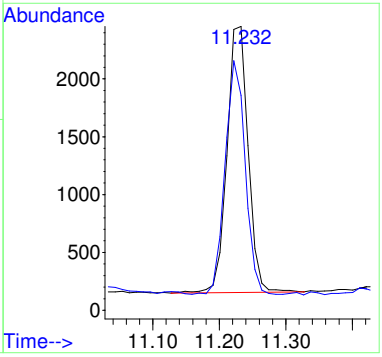


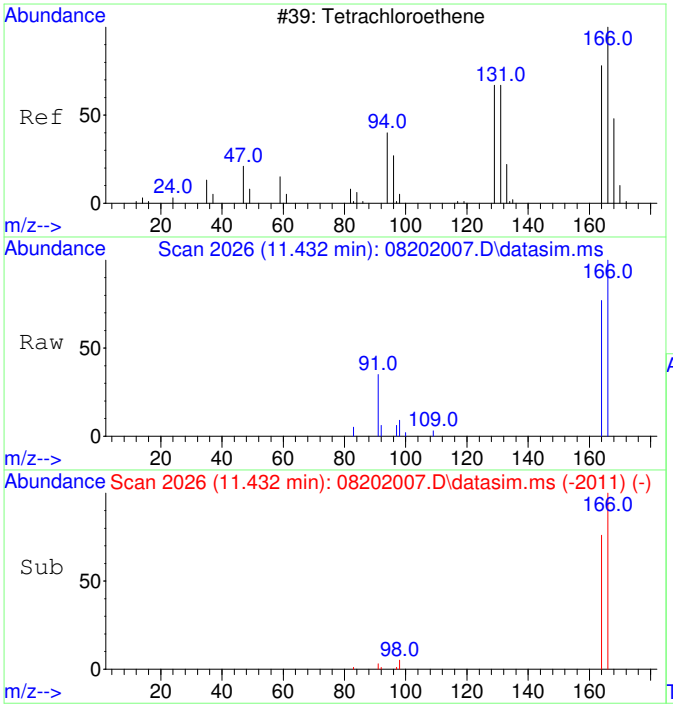


#14
1,1,2-Trichloroethane
Concen: 135.38 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 97 Resp: 5063

Ion	Ratio	Lower	Upper
97	100		
83	83.5	51.2	111.2

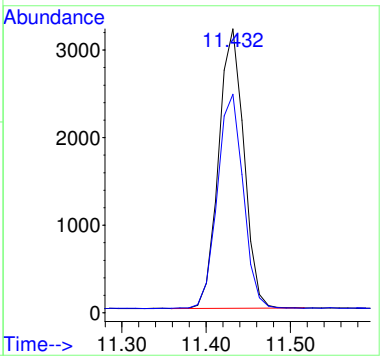


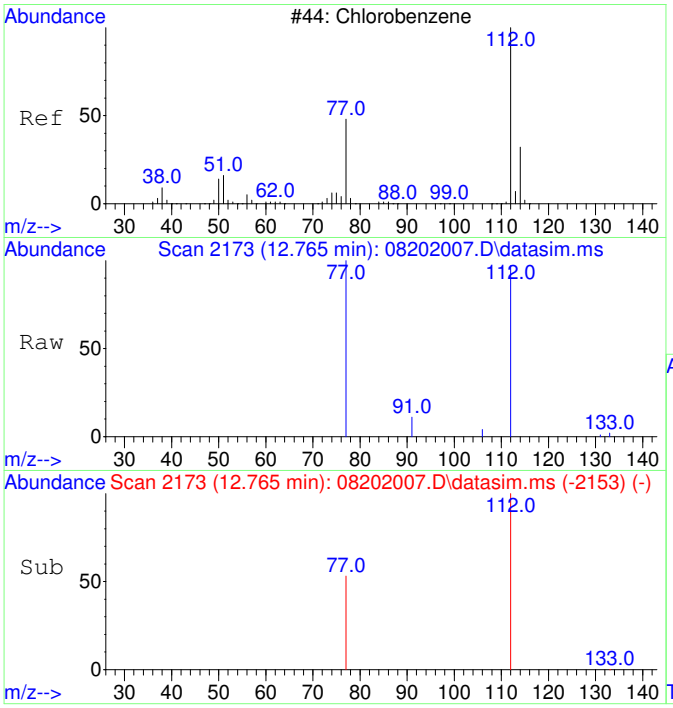


#15
Tetrachloroethene
Concen: 133.89 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:166 Resp: 6650

Ion	Ratio	Lower	Upper
166	100		
164	78.5	47.8	107.8

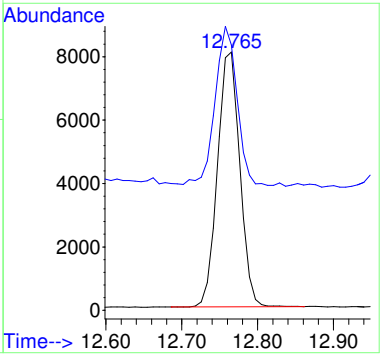


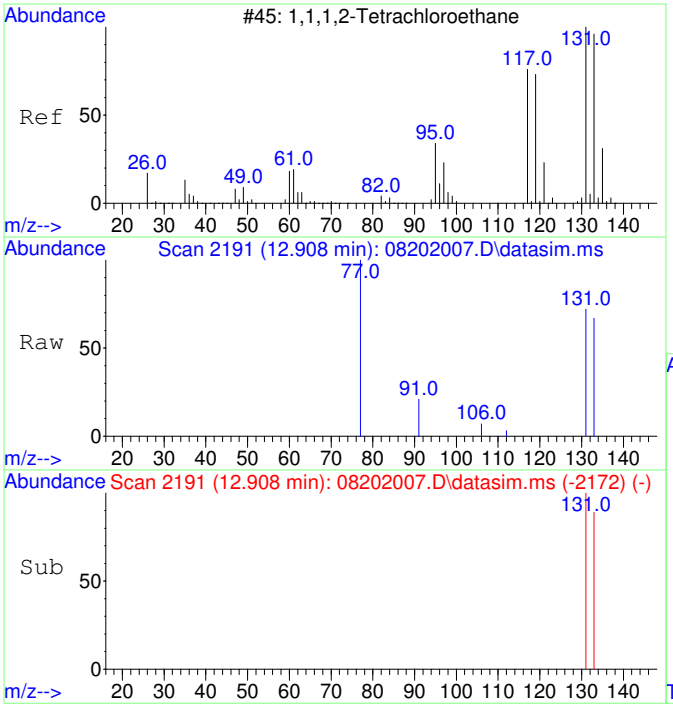


#16
Chlorobenzene
Concen: 133.98 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:112 Resp: 16465

Ion	Ratio	Lower	Upper
112	100		
77	60.1	23.6	83.6

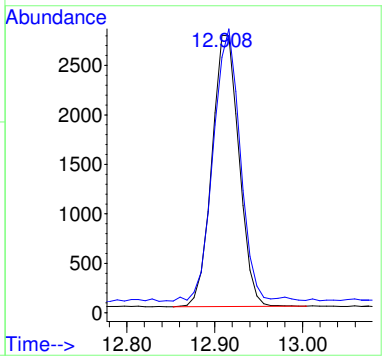


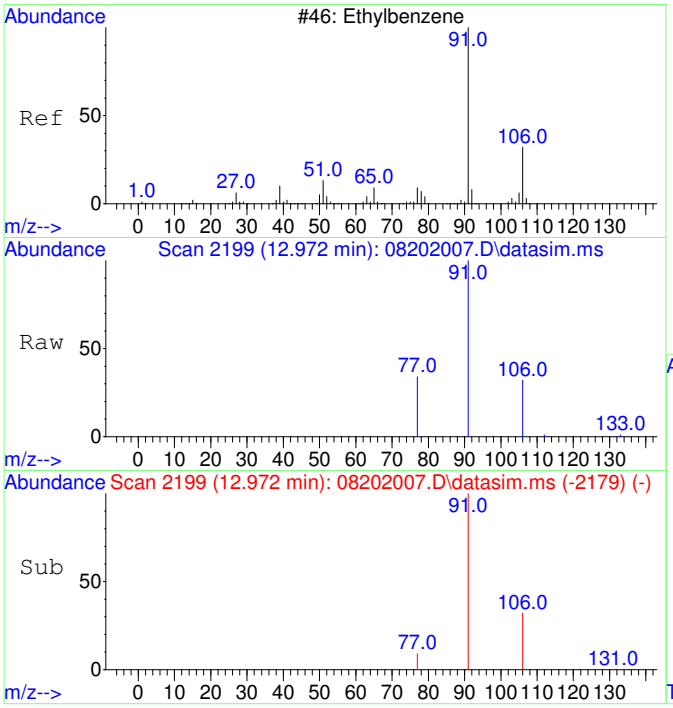


#17
1,1,1,2-Tetrachloroethane
Concen: 133.44 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:131 Resp: 5876

Ion	Ratio	Lower	Upper
131	100		
133	97.8	66.3	126.3

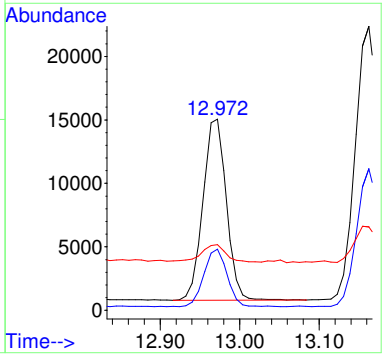


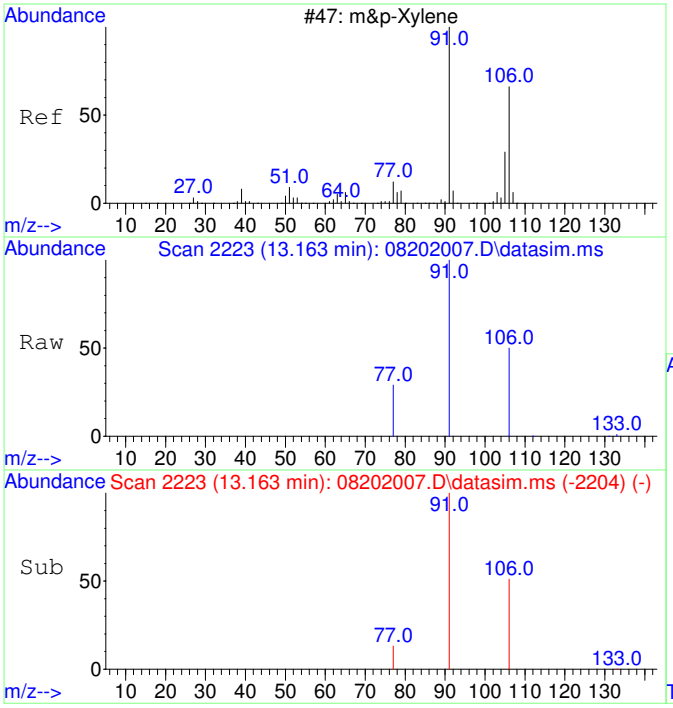


#18
Ethylbenzene
Concen: 139.19 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 29078

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	10.1	0.0	38.2

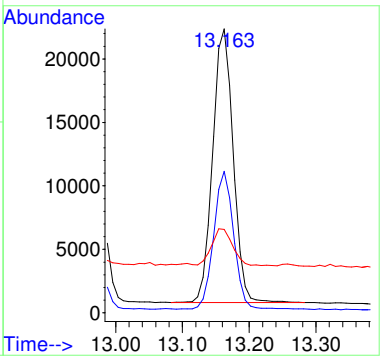


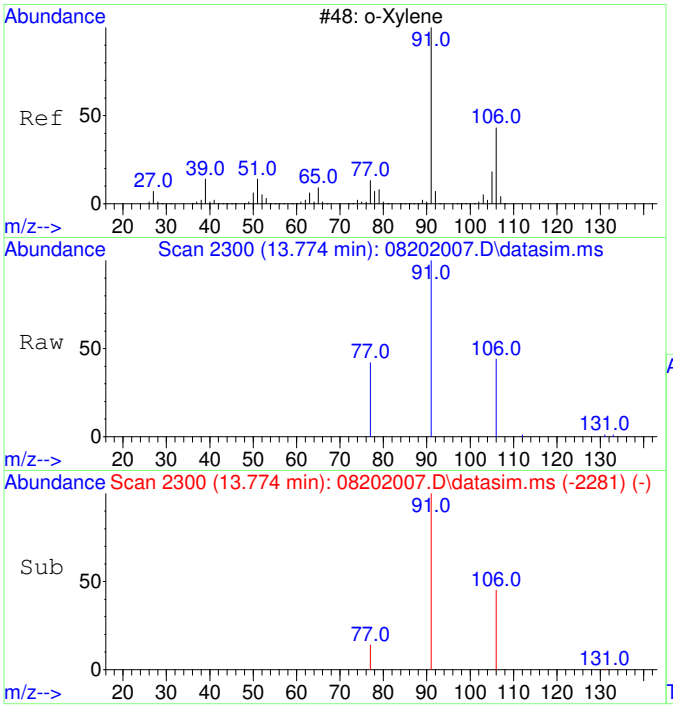


#19
m&p-Xylene
Concen: 281.41 ug/L
RT: 13.163 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 45947

Ion	Ratio	Lower	Upper
91	100		
106	48.7	22.2	82.2
77	14.0	0.0	42.4

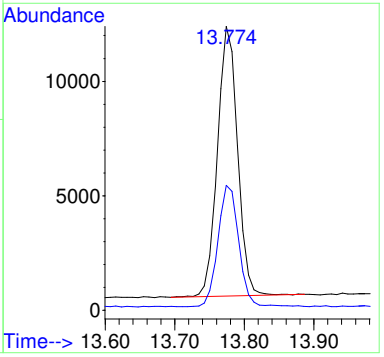


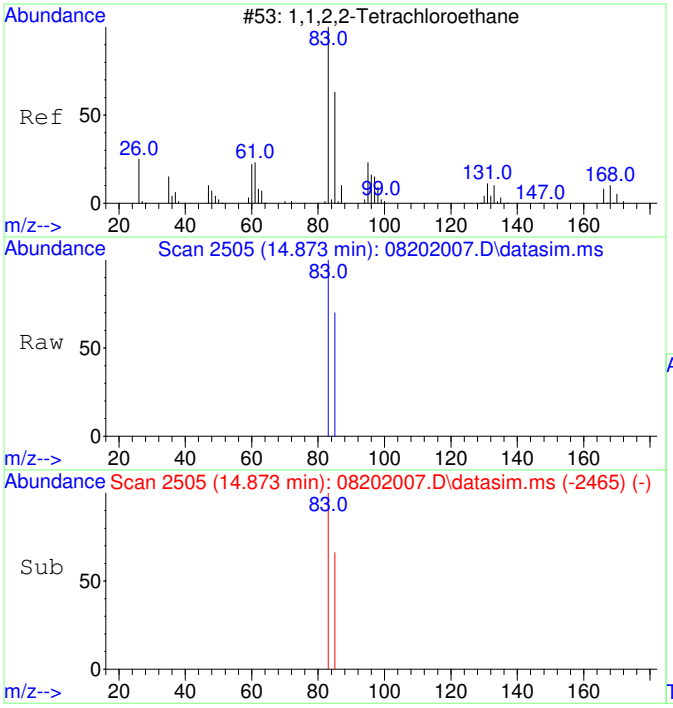


#20
o-Xylene
Concen: 135.47 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 23631

Ion	Ratio	Lower	Upper
91	100		
106	46.7	19.2	79.2

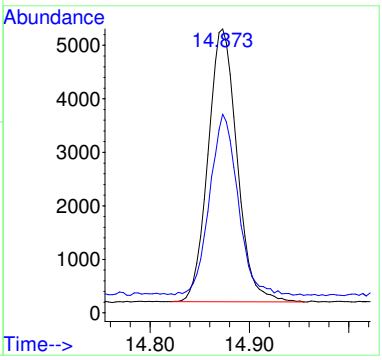


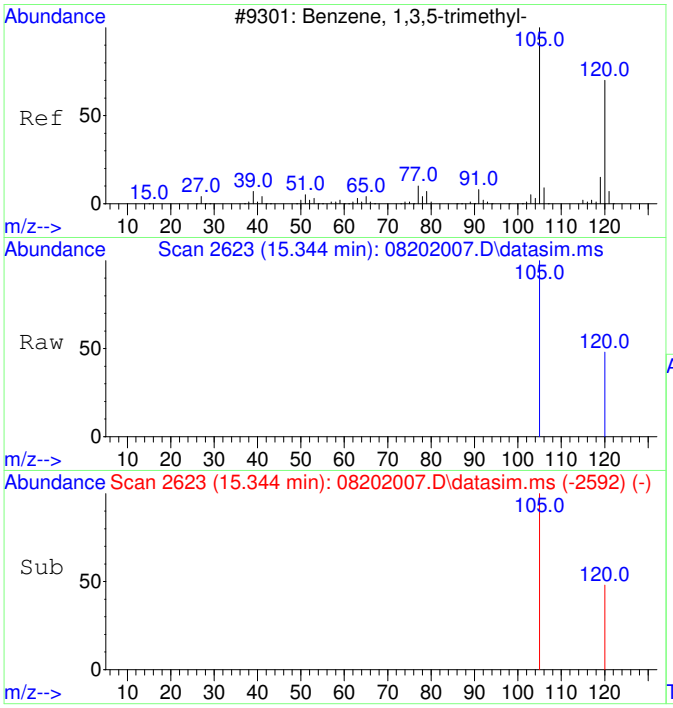


#21
1,1,2,2-Tetrachloroethane
Concen: 133.61 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 83 Resp: 10329

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.8	94.8

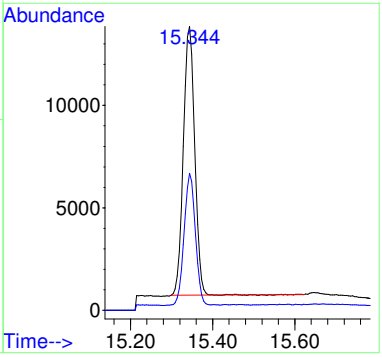


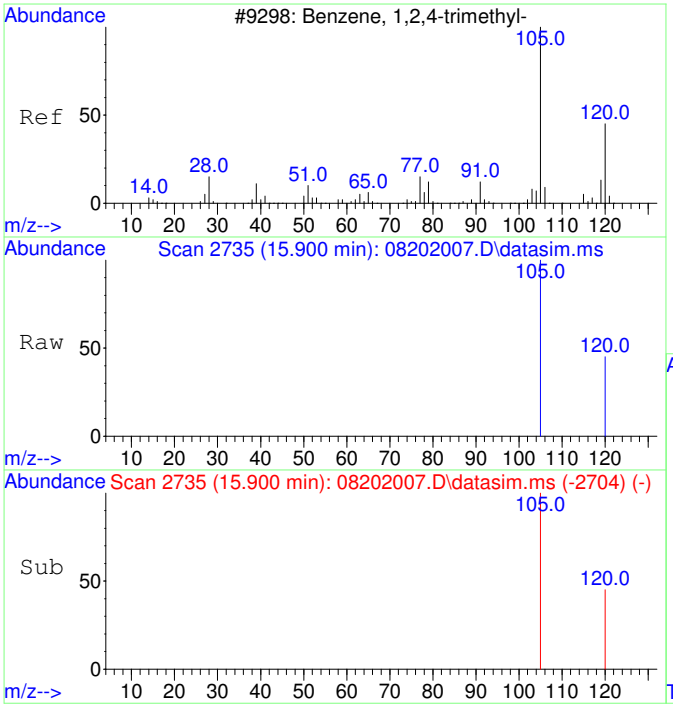


#22
1,3,5-Trimethylbenzene
Concen: 134.37 ug/L
RT: 15.344 min Scan# 2623
Delta R.T. -0.001 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:105 Resp: 24949

Ion	Ratio	Lower	Upper
105	100		
120	48.8	21.1	81.1

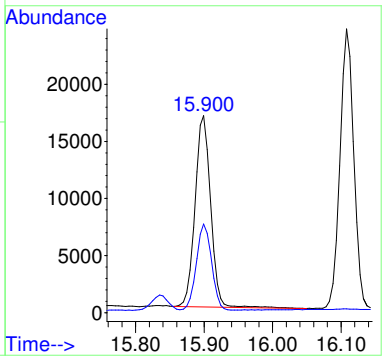


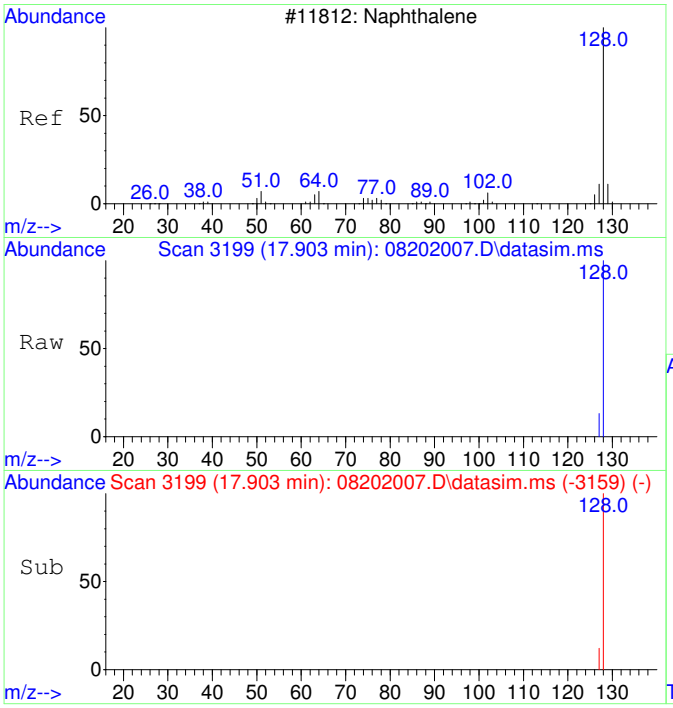


#23
1,2,4-Trimethylbenzene
Concen: 137.33 ug/L
RT: 15.900 min Scan# 2735
Delta R.T. 0.004 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:105 Resp: 26485

Ion	Ratio	Lower	Upper
105	100		
120	43.4	17.2	77.2

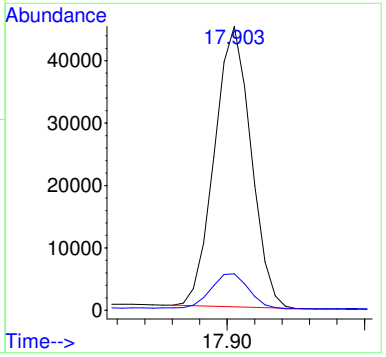


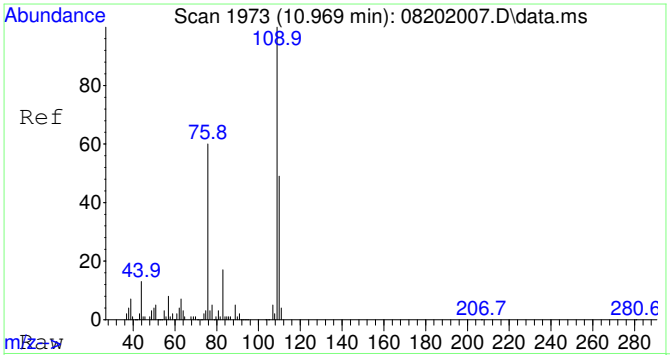


#24
Naphthalene
Concen: 135.77 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:128 Resp: 41384

Ion	Ratio	Lower	Upper
128	100		
127	12.6	0.0	42.5

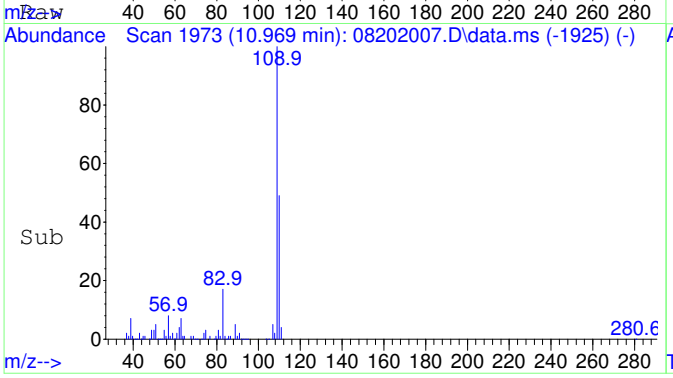


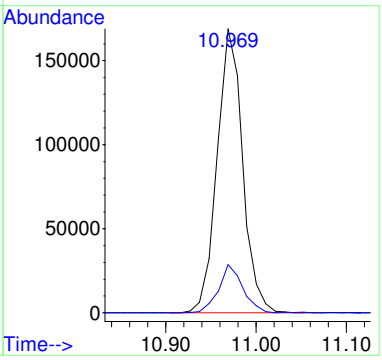


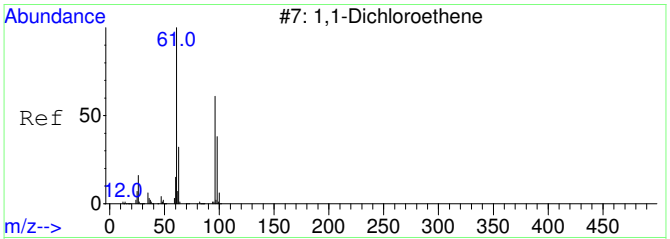
#25
2-Fluorotoluene SCAN
Concen: 4966.84 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:109 Resp: 332955

Ion	Ratio	Lower	Upper
109	100		
83	15.9	0.0	43.8



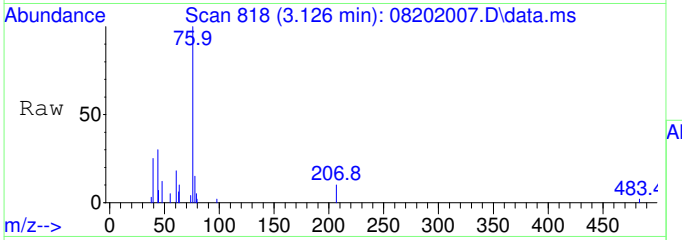


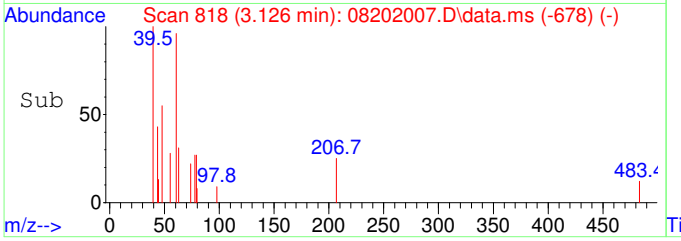


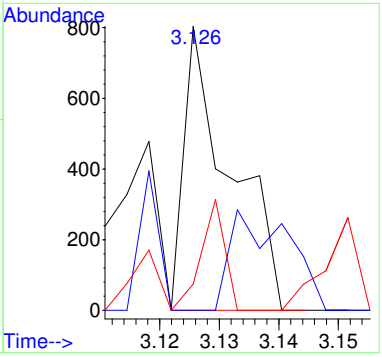
#26
1,1-Dichloroethene SCAN
Concen: 30.49 ug/L
RT: 3.126 min Scan# 818
Delta R.T. 0.019 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

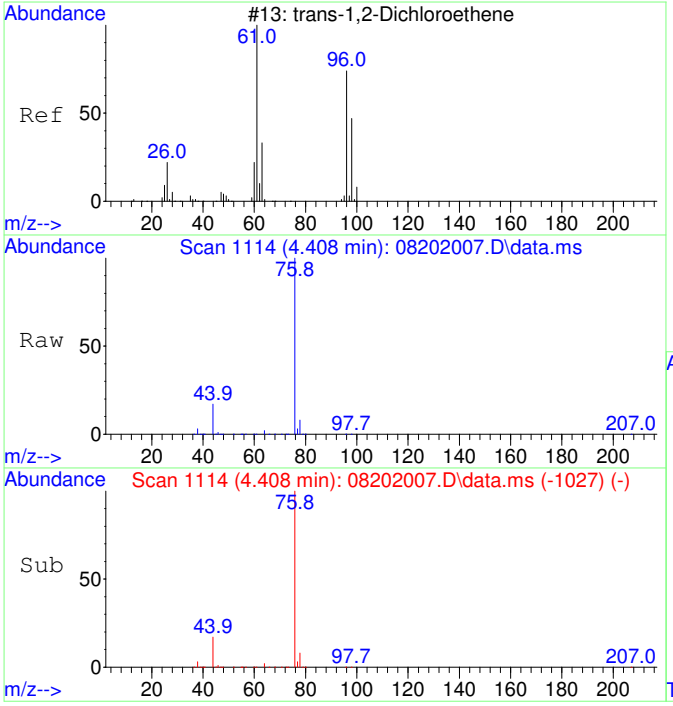
Tgt Ion: 61 Resp: 434

Ion	Ratio	Lower	Upper
61	100		
96	44.0	33.1	93.1
98	19.8	11.2	71.2





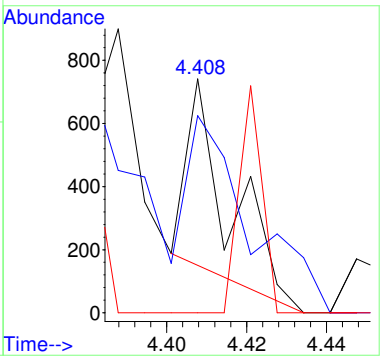


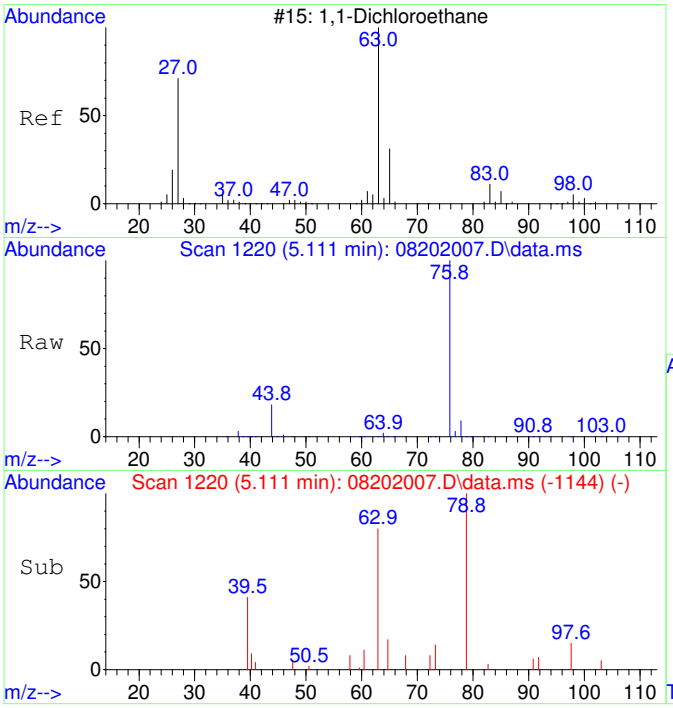


#27
trans-1,2-Dichloroethene SCAN
Concen: 22.42 ug/L
RT: 4.408 min Scan# 1114
Delta R.T. 0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 395

Ion	Ratio	Lower	Upper
61	100		
96	126.6	49.0	109.0#
97	72.4	20.5	80.5

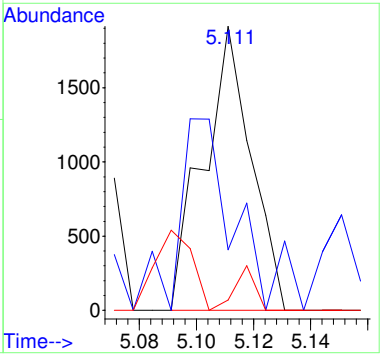


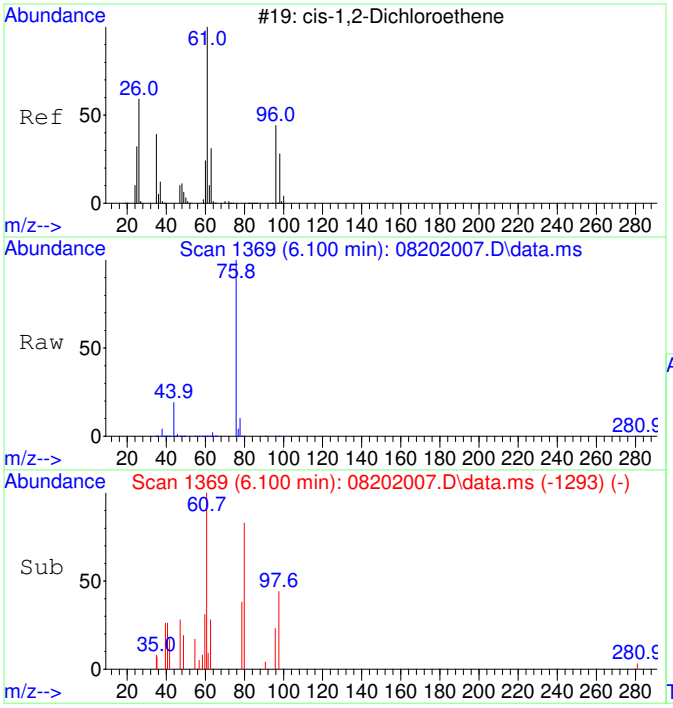


#28
1,1-Dichloroethane SCAN
Concen: 109.38 ug/L
RT: 5.111 min Scan# 1220
Delta R.T. 0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 63 Resp: 2230

Ion	Ratio	Lower	Upper
63	100		
65	0.0	1.3	61.3#
83	4.1	0.0	45.9

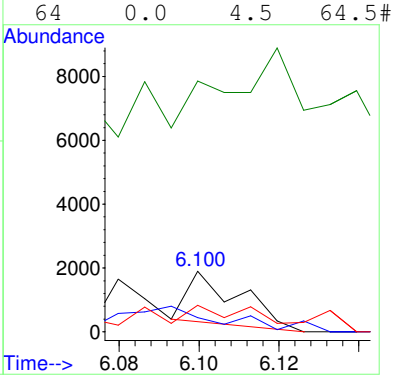


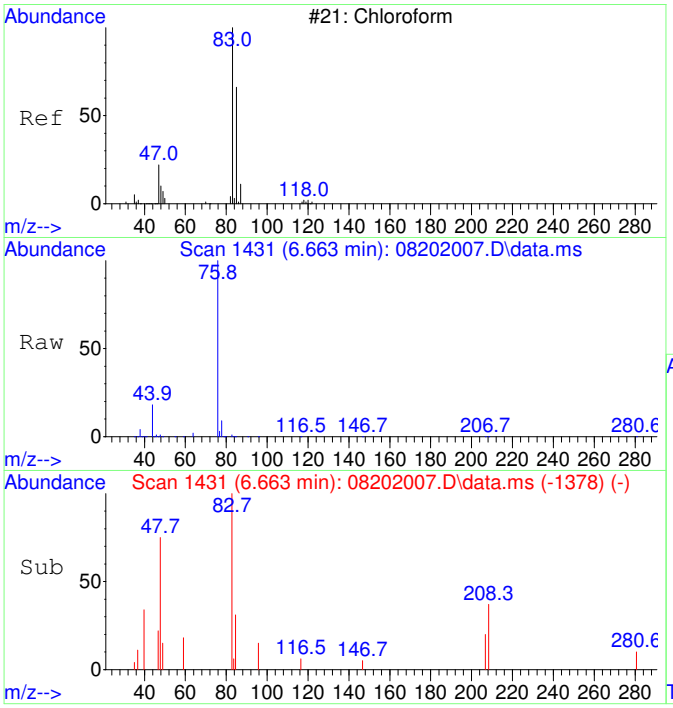


#29
cis-1,2-Dichloroethene SCAN
Concen: 63.68 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 1391

Ion	Ratio	Lower	Upper
61	100		
96	143.3	39.9	99.9#
98	66.9	13.5	73.5
64	0.0	4.5	64.5#

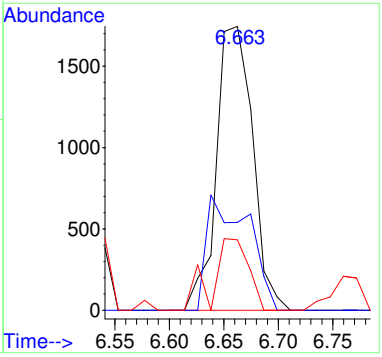


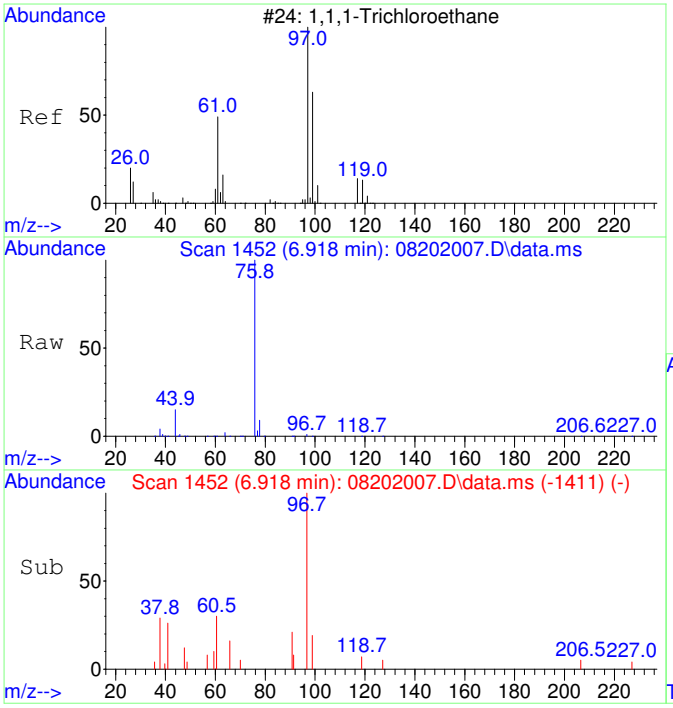


#30
Chloroform SCAN
Concen: 171.15 ug/L
RT: 6.663 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 83 Resp: 4055

Ion	Ratio	Lower	Upper
83	100		
85	0.0	34.6	94.6#
47	25.2	0.0	53.4

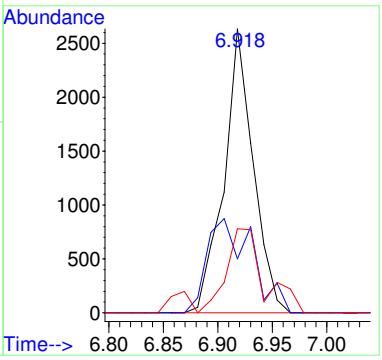


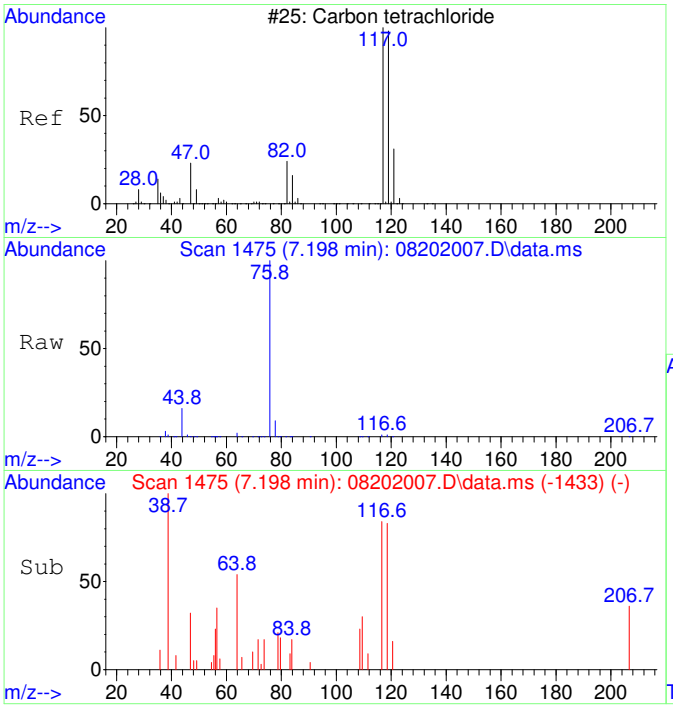


#31
1,1,1-Trichloroethane SCAN
Concen: 228.30 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 97 Resp: 4929

Ion	Ratio	Lower	Upper
97	100		
99	51.1	43.6	103.6
61	37.8	18.0	78.0

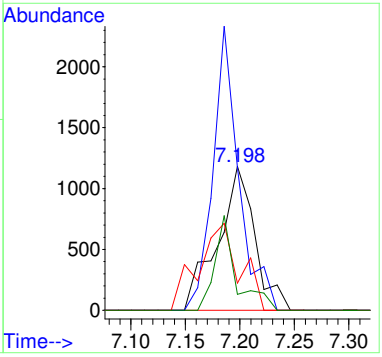


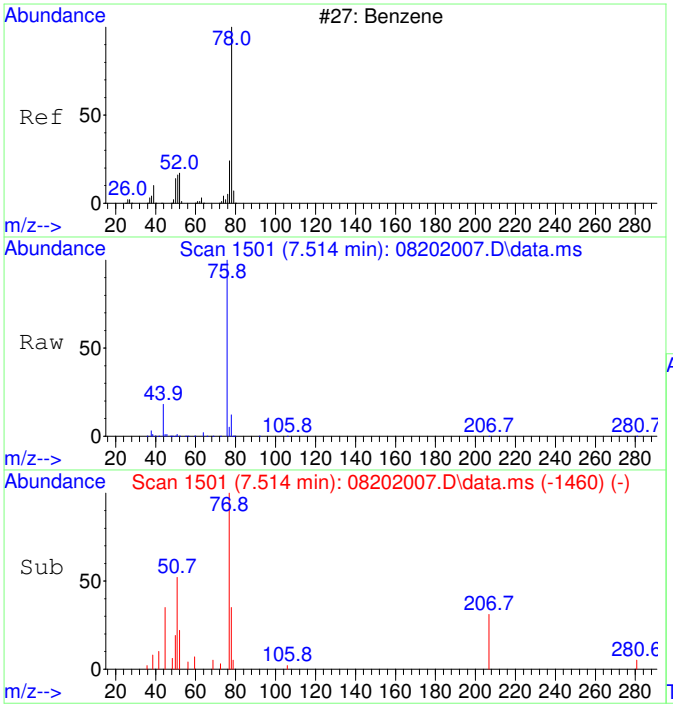


#32
Carbon tetrachloride SCAN
Concen: 124.33 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. 0.012 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:117 Resp: 2800

Ion	Ratio	Lower	Upper
117	100		
119	137.3	75.5	135.5#
121	67.3	0.0	58.8#
82	37.5	0.0	59.2

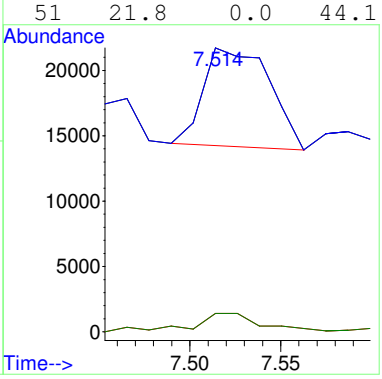


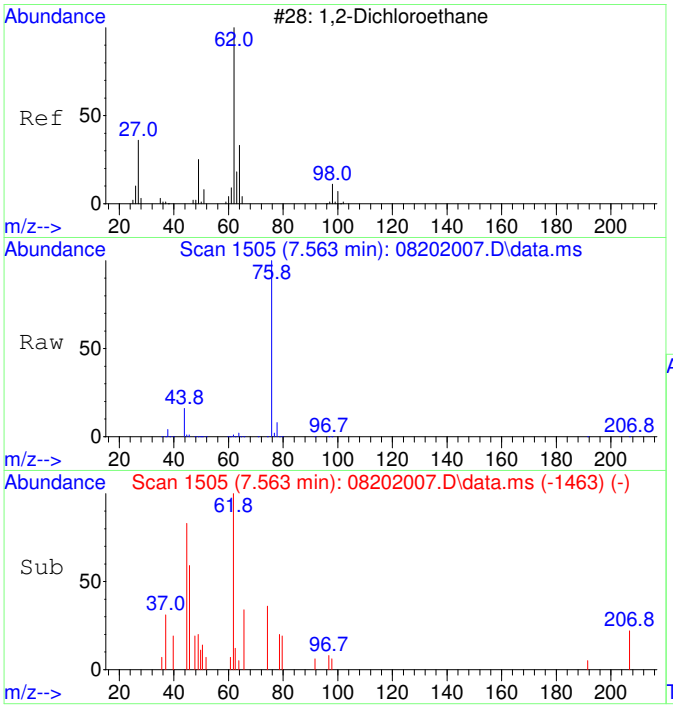


#33
Benzene SCAN
Concen: 317.45 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 78 Resp: 18871

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	21.8	0.0	47.9
51	21.8	0.0	44.1

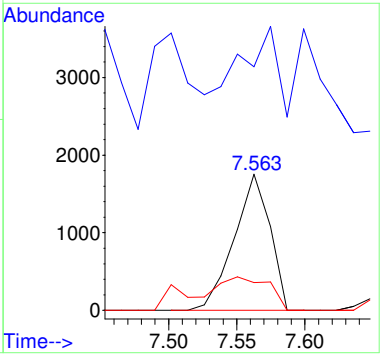


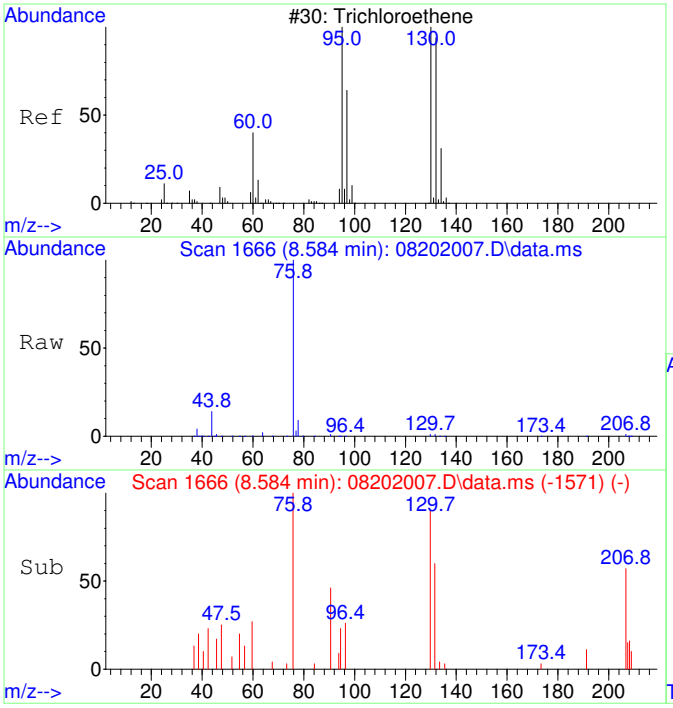


#34
1,2-Dichloroethane SCAN
Concen: 146.10 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 62 Resp: 3207

Ion	Ratio	Lower	Upper
62	100		
64	42.1	5.2	65.2
49	0.0	3.9	63.9#

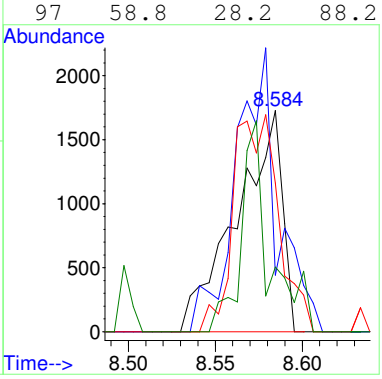


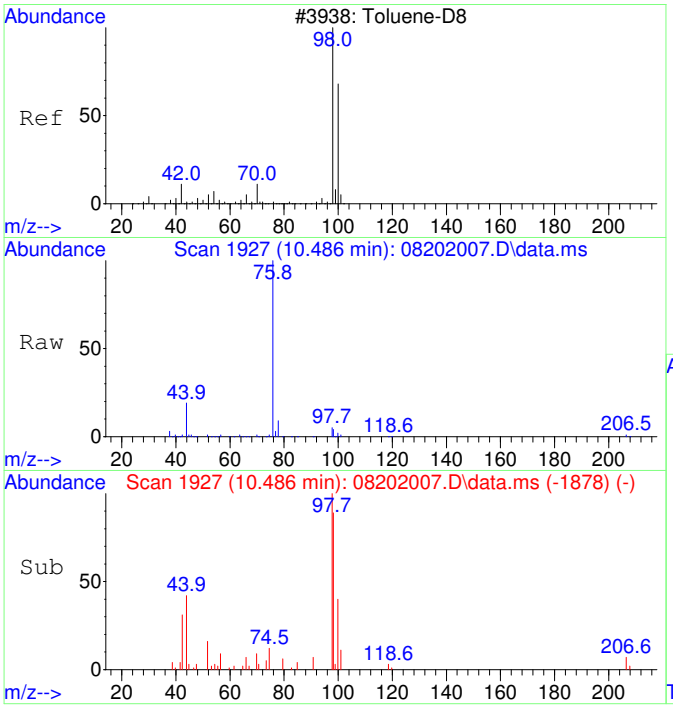


#35
Trichloroethene SCAN
Concen: 193.80 ug/L
RT: 8.584 min Scan# 1666
Delta R.T. 0.016 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:130 Resp: 3166

Ion	Ratio	Lower	Upper
130	100		
95	116.2	60.5	120.5
132	96.6	59.6	119.6
97	58.8	28.2	88.2

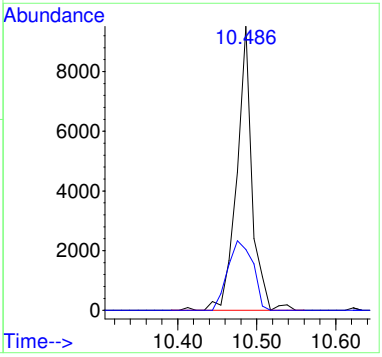


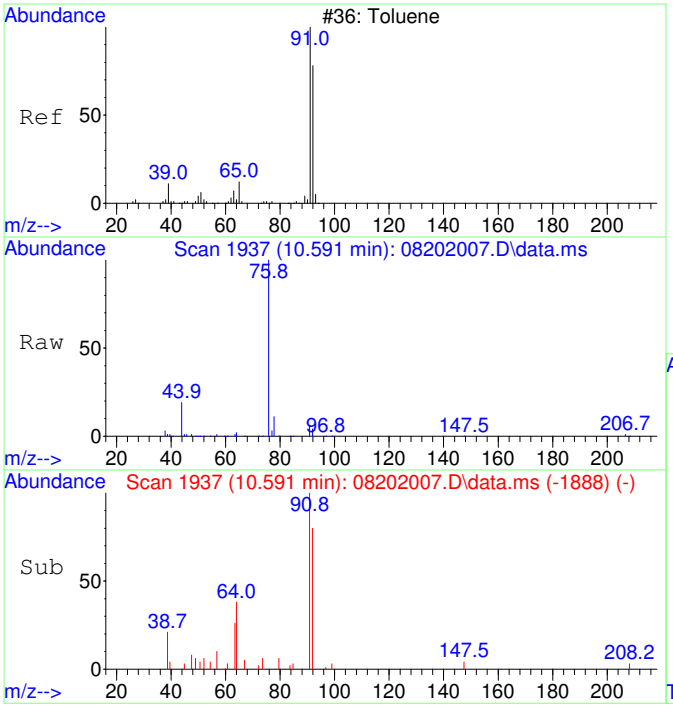


#36
Toluene-d8 SCAN
Concen: 194.45 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 98 Resp: 12748

Ion	Ratio	Lower	Upper
98	100		
100	40.3	40.0	100.0

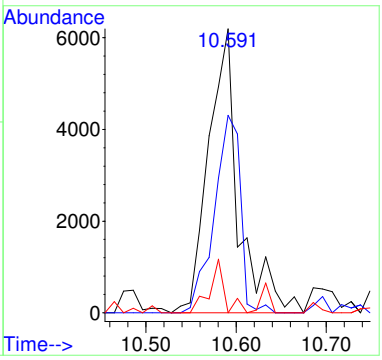


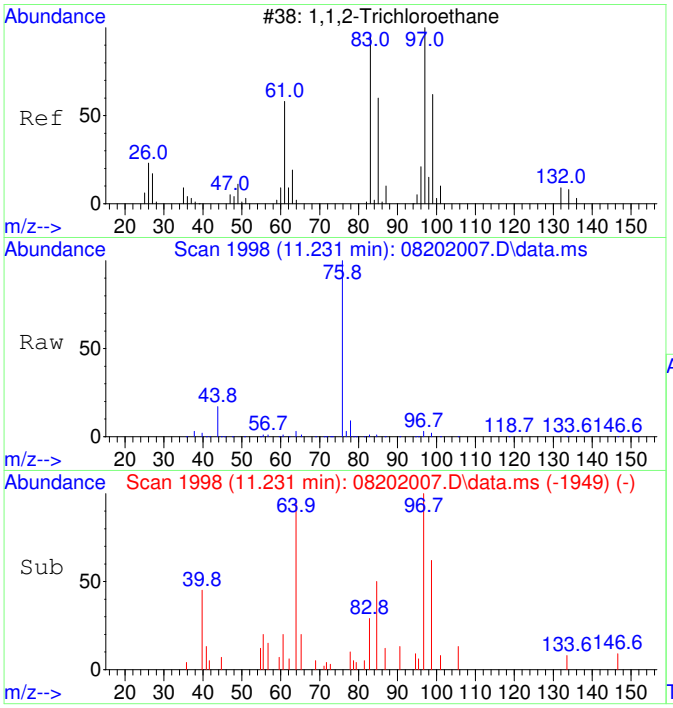


#37
Toluene SCAN
Concen: 171.17 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 14371

Ion	Ratio	Lower	Upper
91	100		
92	60.5	28.3	88.3
65	9.4	0.0	41.0

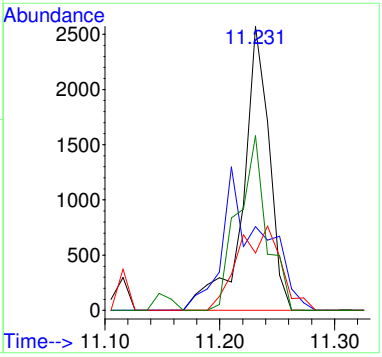


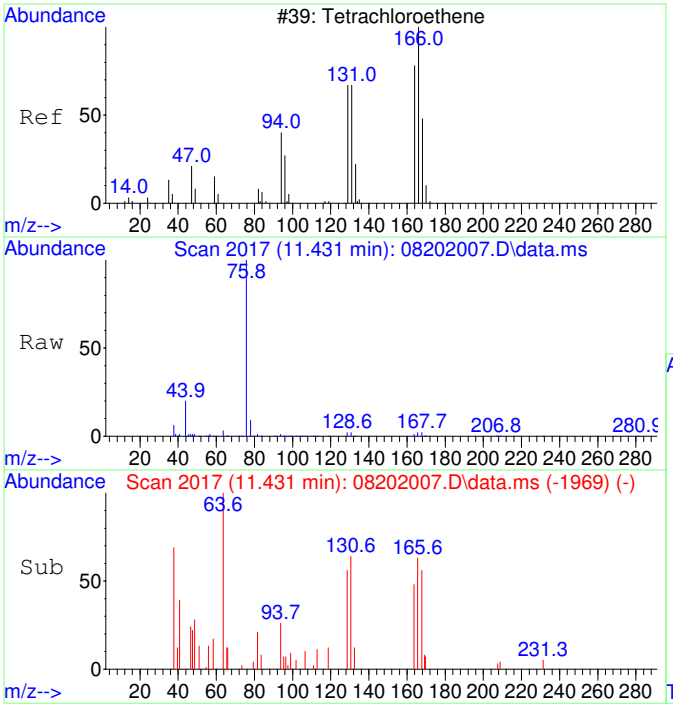


#38
1,1,2-Trichloroethane SCAN
Concen: 216.66 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 97 Resp: 4083

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	48.2	32.1	92.1
99	67.8	36.7	96.7

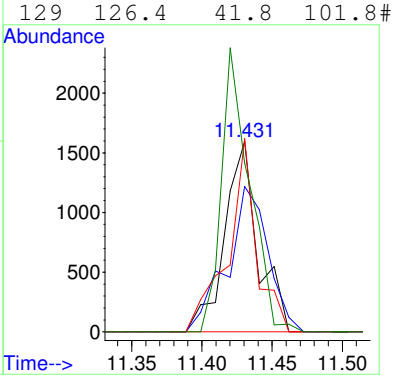


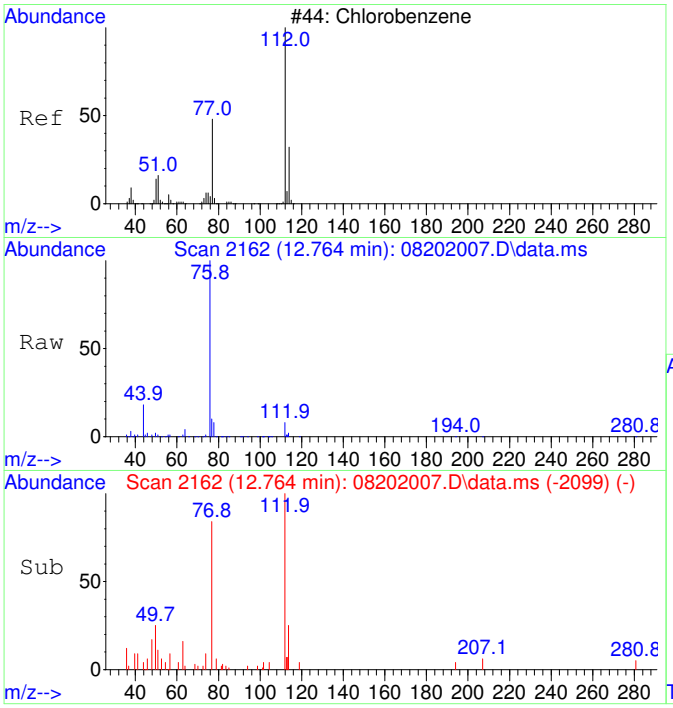


#39
Tetrachloroethene SCAN
Concen: 131.18 ug/L
RT: 11.431 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:166 Resp: 2646

Ion	Ratio	Lower	Upper
166	100		
164	93.8	50.9	110.9
131	86.4	38.7	98.7
129	126.4	41.8	101.8#

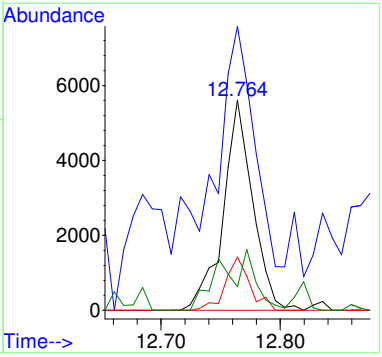


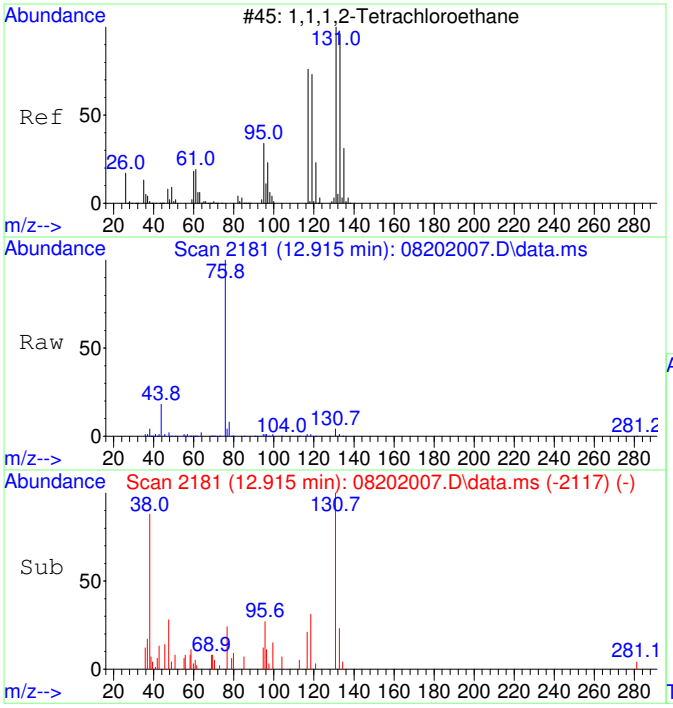


#40
Chlorobenzene SCAN
Concen: 169.04 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:112 Resp: 9698

Ion	Ratio	Lower	Upper
112	100		
77	136.8	28.2	88.2#
114	21.1	2.3	62.3
51	12.2	0.0	50.1

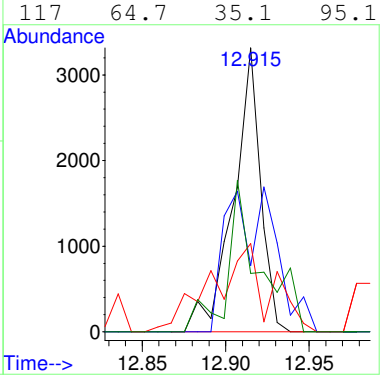


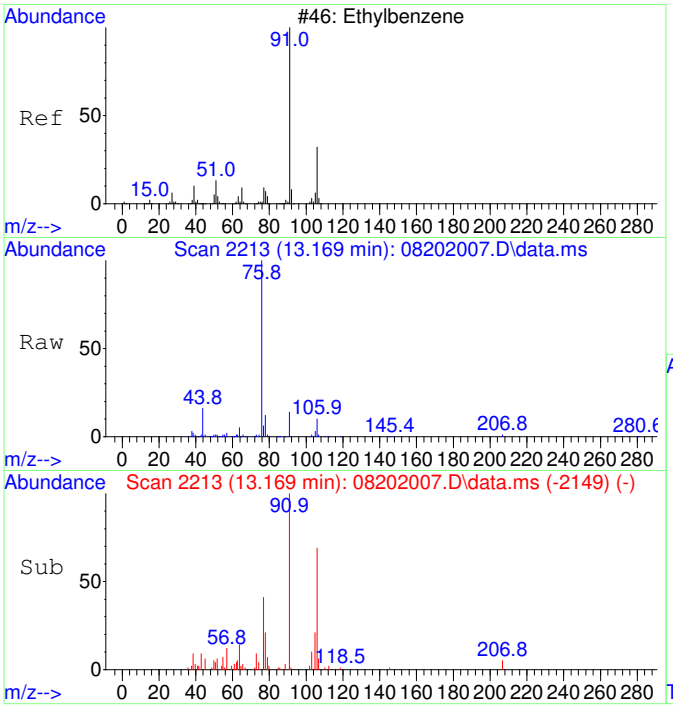


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 177.14 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:131 Resp: 3761

Ion	Ratio	Lower	Upper
131	100		
133	89.9	66.9	126.9
119	65.7	40.4	100.4
117	64.7	35.1	95.1

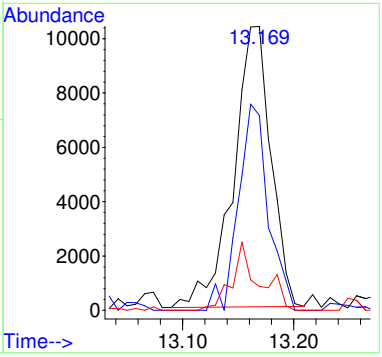


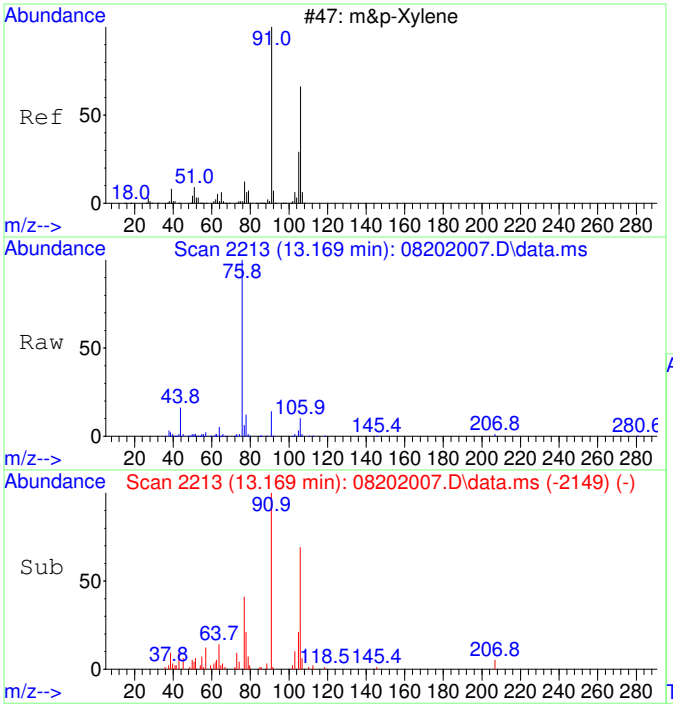


#42
Ethylbenzene SCAN
Concen: 158.20 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 24198

Ion	Ratio	Lower	Upper
91	100		
106	58.4	23.1	83.1
51	17.6	0.0	40.1

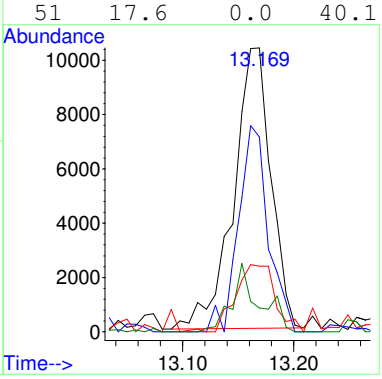


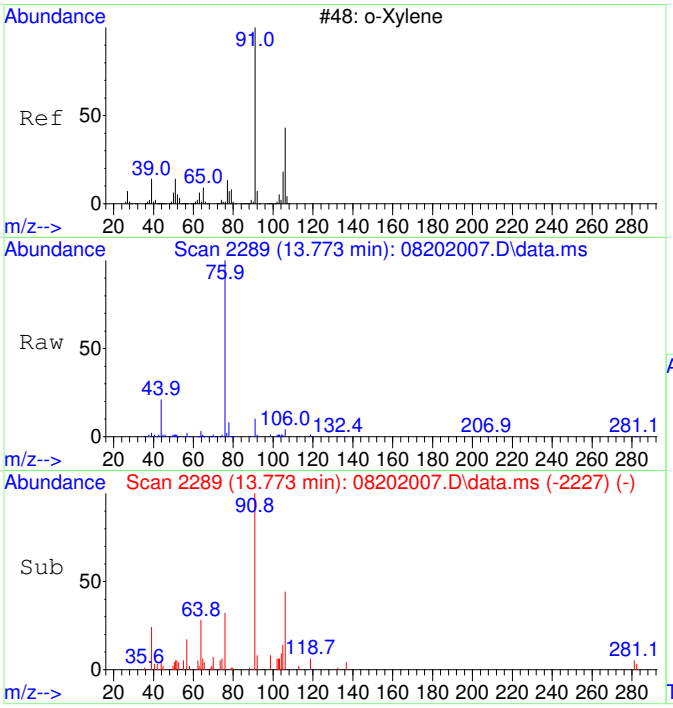


#43
m&p-Xylene SCAN
Concen: 158.20 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 24198

Ion	Ratio	Lower	Upper
91	100		
106	58.4	23.1	83.1
105	25.1	0.0	54.7
51	17.6	0.0	40.1

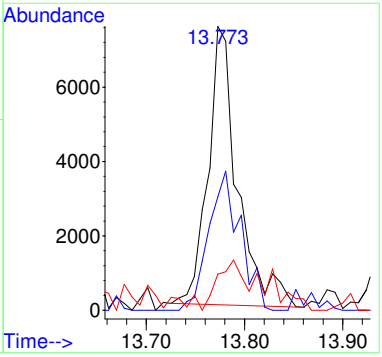


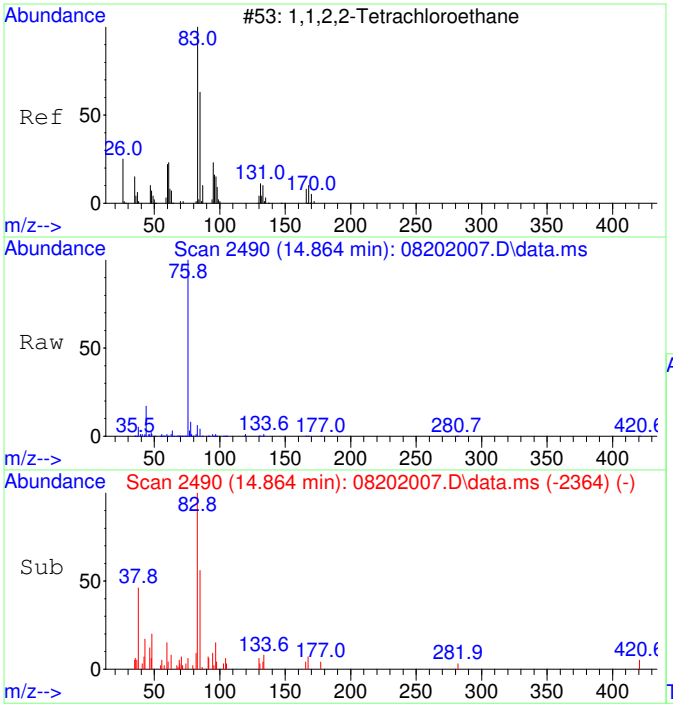


#44
o-Xylene SCAN
Concen: 190.48 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 15595

Ion	Ratio	Lower	Upper
91	100		
106	53.8	18.0	78.0
105	27.5	0.0	56.6

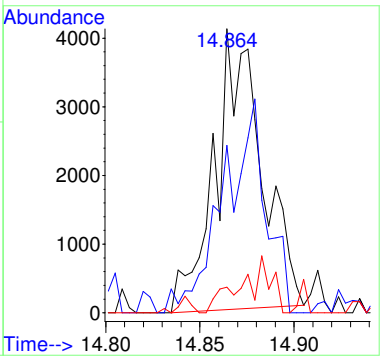


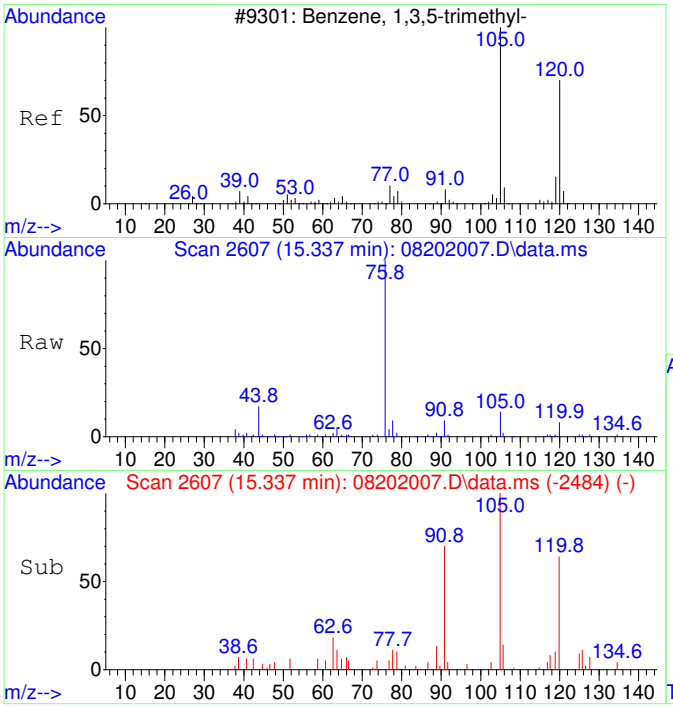


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 177.39 ug/L
RT: 14.864 min Scan# 2490
Delta R.T. -0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 83 Resp: 7082

Ion	Ratio	Lower	Upper
83	100		
85	10.5	35.9	95.9#
95	5.2	0.0	47.4

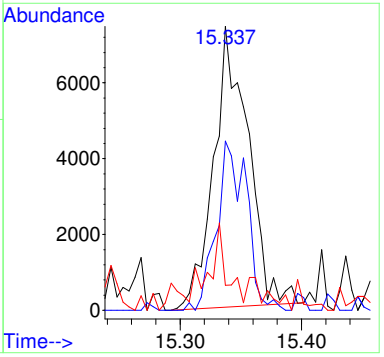


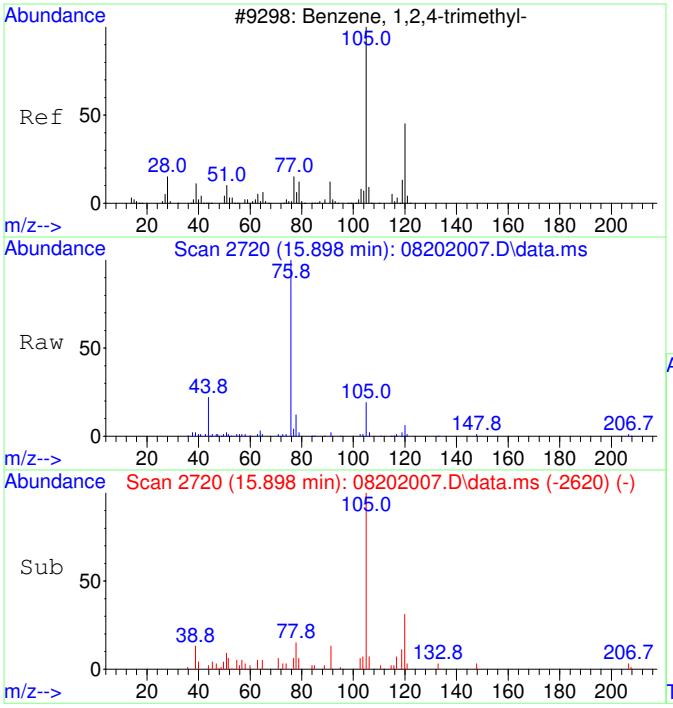


#46
1,3,5-Trimethylbenzene SCAN
Concen: 170.06 ug/L
RT: 15.337 min Scan# 2607
Delta R.T. -0.006 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:105 Resp: 14674

Ion	Ratio	Lower	Upper
105	100		
120	52.5	18.3	78.3
119	12.8	0.0	43.1

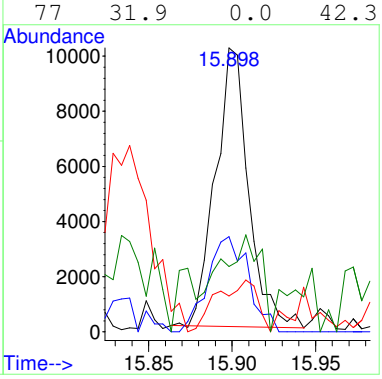


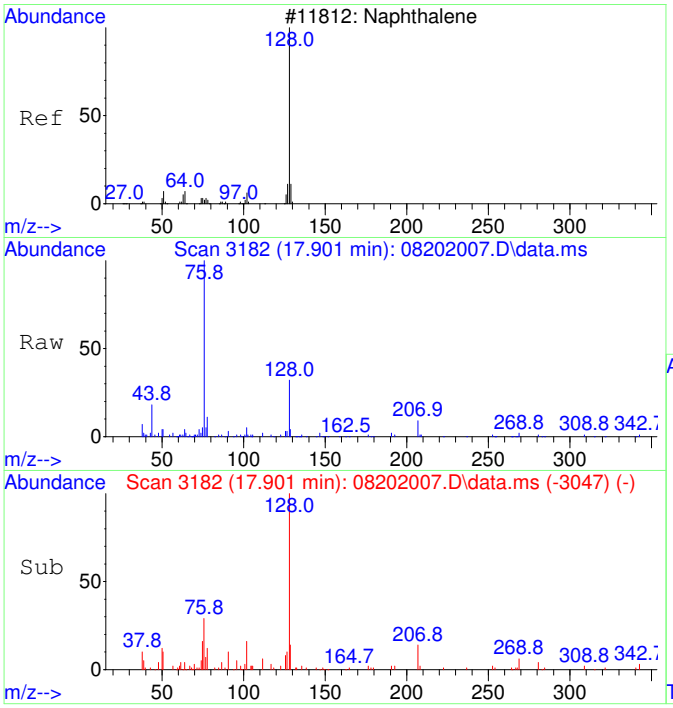


#47
1,2,4-Trimethylbenzene SCAN
Concen: 157.88 ug/L
RT: 15.898 min Scan# 2720
Delta R.T. -0.001 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:105 Resp: 13939

Ion	Ratio	Lower	Upper
105	100		
120	41.8	16.9	76.9
119	22.6	0.0	41.9
77	31.9	0.0	42.3

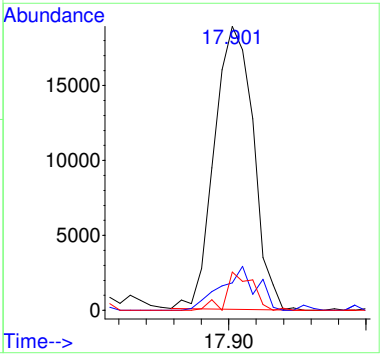




#48
Naphthalene SCAN
Concen: 138.89 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:128 Resp: 18555

Ion	Ratio	Lower	Upper
128	100		
127	14.1	0.0	44.0
129	9.5	0.0	40.8



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202007.D
Acq On : 20 Aug 2020 17:01
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL5
Misc : 2030072 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

M.I. Performed By:
TD at 8:44 am, Aug 21, 2020

M.I. Approved By:
ZR at 3:53 pm, Oct 02, 2020

Quant Time: Aug 21 08:31:11 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration

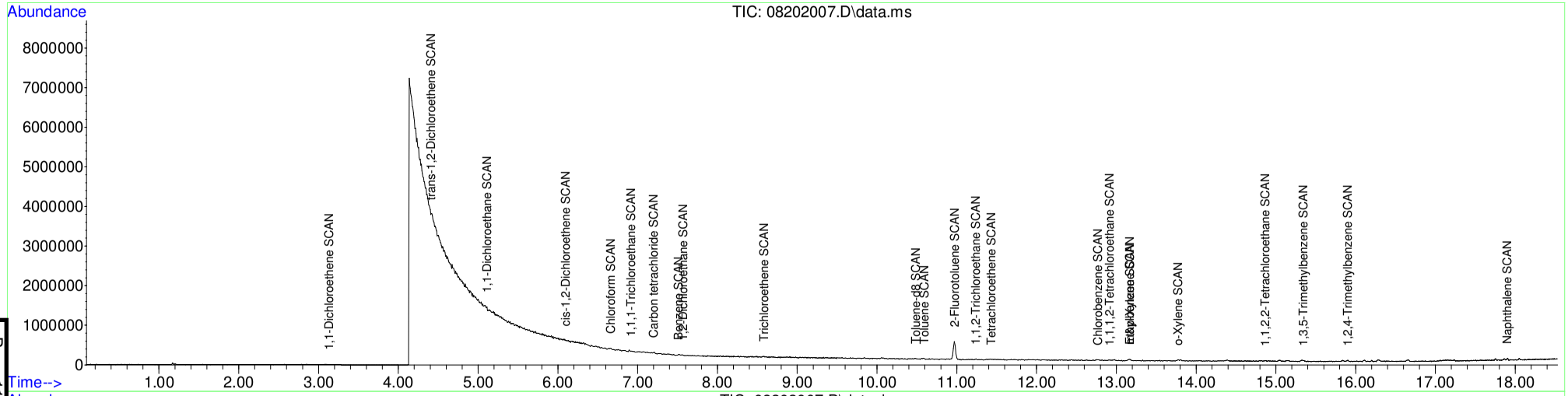
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	687675	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	18291	135.87	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 2.72%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	4078m	134.88	ug/L	
3] trans-1,2-Dichloroethene	4.396	61	4743	149.50	ug/L	88
4] 1,1-Dichloroethane	5.099	63	6017	152.35	ug/L	86
5] cis-1,2-Dichloroethene	6.094	61	6181	148.27	ug/L	99
6] Chloroform	6.664	83	6101	142.98	ug/L	95
7] 1,1,1-Trichloroethane	6.919	97	6374	137.55	ug/L	98
8] Carbon tetrachloride	7.187	117	5978	137.06	ug/L	98
9] Benzene	7.515	78	16396	140.33	ug/L	75
10] 1,2-Dichloroethane	7.552	62	6015	144.21	ug/L	80
11] Trichloroethene	8.575	130	4884	138.83	ug/L	93
13] Toluene	10.582	91	24264	141.38	ug/L	98
14] 1,1,2-Trichloroethane	11.232	97	5063	135.38	ug/L	97
15] Tetrachloroethene	11.432	166	6650	133.89	ug/L	99
16] Chlorobenzene	12.765	112	16465	133.98	ug/L	91
17] 1,1,1,2-Tetrachloroethane	12.908	131	5876	133.44	ug/L	98
18] Ethylbenzene	12.972	91	29078	139.19	ug/L	97
19] m&p-Xylene	13.163	91	45947	281.41	ug/L	95
20] o-Xylene	13.774	91	23631	135.47	ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.873	83	10329	133.61	ug/L	99
22] 1,3,5-Trimethylbenzene	15.344	105	24949	134.37	ug/L	97
23] 1,2,4-Trimethylbenzene	15.900	105	26485	137.33	ug/L	94
24] Naphthalene	17.903	128	41384	135.77	ug/L	100
25) 2-Fluorotoluene SCAN	10.969	109	332955	4966.84	ug/L	95
26) 1,1-Dichloroethene SCAN	3.126	61	434	30.49	ug/L	72
27) trans-1,2-Dichloroethe...	4.408	61	395	22.42	ug/L #	55
28) 1,1-Dichloroethane SCAN	5.111	63	2230	109.38	ug/L #	53
29) cis-1,2-Dichloroethene...	6.100	61	1391	63.68	ug/L #	33
30) Chloroform SCAN	6.663	83	4055	171.15	ug/L #	39
31) 1,1,1-Trichloroethane ...	6.918	97	4929	228.30	ug/L	78
32) Carbon tetrachloride SCAN	7.198	117	2800	124.33	ug/L #	65
33) Benzene SCAN	7.514	78	18871	317.45	ug/L	97
34) 1,2-Dichloroethane SCAN	7.563	62	3207	146.10	ug/L #	65
35) Trichloroethene SCAN	8.584	130	3166	193.80	ug/L	87
36) Toluene-d8 SCAN	10.486	98	12748	194.45	ug/L	64
37) Toluene SCAN	10.591	91	14371	171.17	ug/L	97
38) 1,1,2-Trichloroethane ...	11.231	97	4083	216.66	ug/L #	56
39) Tetrachloroethene SCAN	11.431	166	2646	131.18	ug/L #	67
40) Chlorobenzene SCAN	12.764	112	9698	169.04	ug/L #	35
41) 1,1,1,2-Tetrachloroeth...	12.915	131	3761	177.14	ug/L	95
42) Ethylbenzene SCAN	13.169	91	24198	158.20	ug/L	91
43) m&p-Xylene SCAN	13.169	91	24198	158.20	ug/L	93
44) o-Xylene SCAN	13.773	91	15595	190.48	ug/L	94
45) 1,1,2,2-Tetrachloroeth...	14.864	83	7082	177.39	ug/L #	39
46) 1,3,5-Trimethylbenzene...	15.337	105	14674	170.06	ug/L	95
47) 1,2,4-Trimethylbenzene...	15.898	105	13939	157.88	ug/L	82
48) Naphthalene SCAN	17.901	128	18555	138.89	ug/L	98

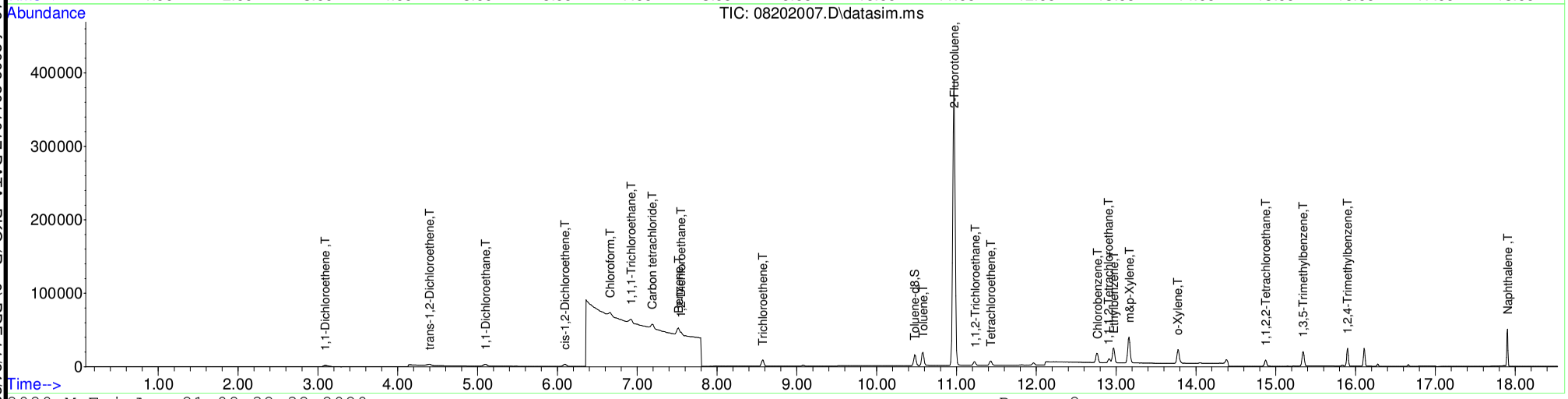
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202007.D
Acq On : 20 Aug 2020 17:01
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL5
Misc : 2030072 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 21 08:31:11 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration





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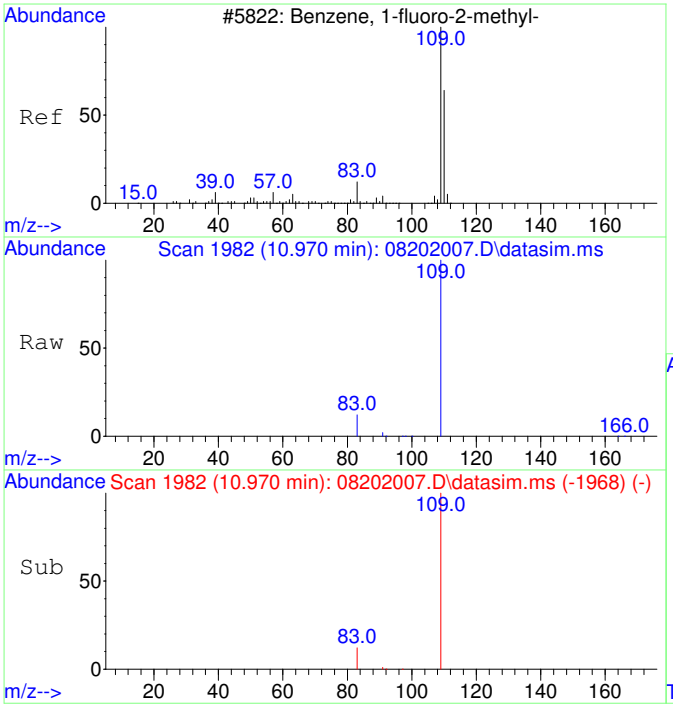
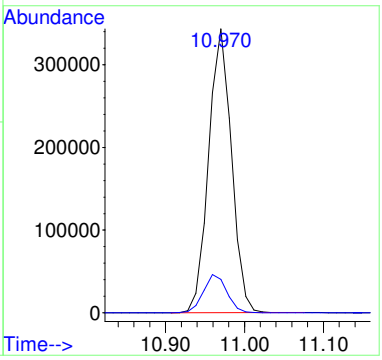
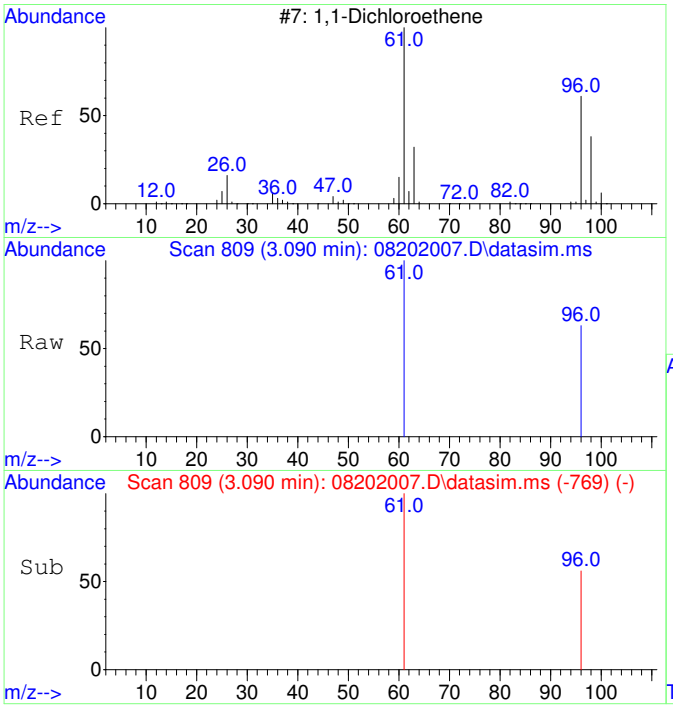


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:109 Resp: 687675

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

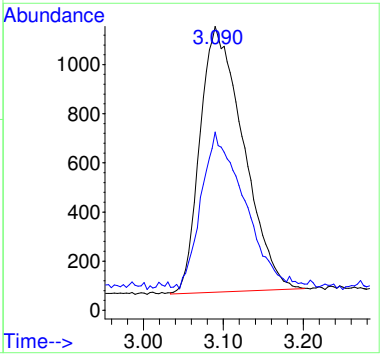


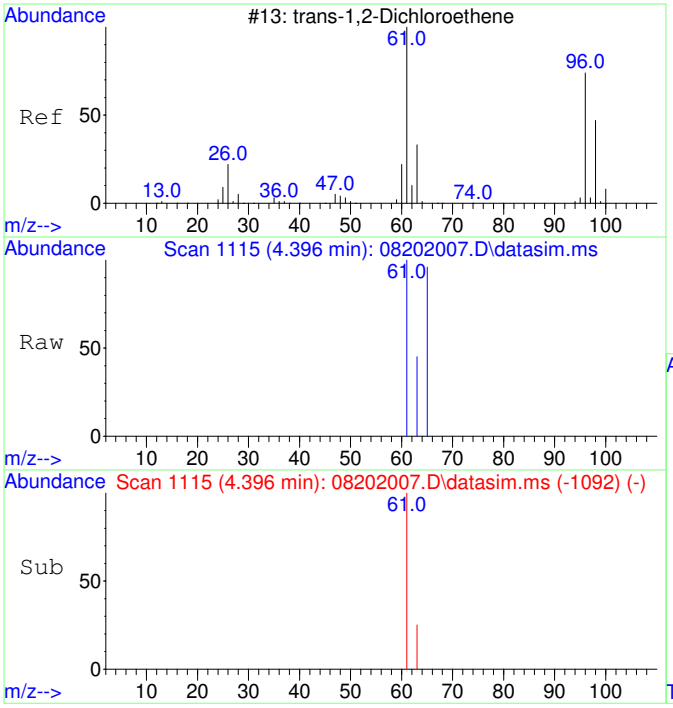


#2
1,1-Dichloroethene
Concen: 134.88 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 4078

Ion	Ratio	Lower	Upper
61	100		
96	66.0	37.2	97.2

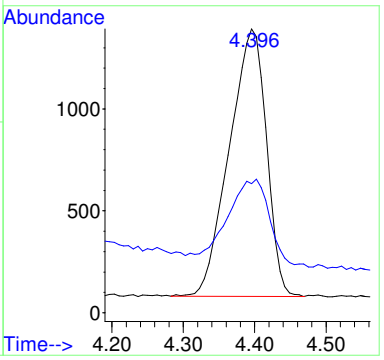


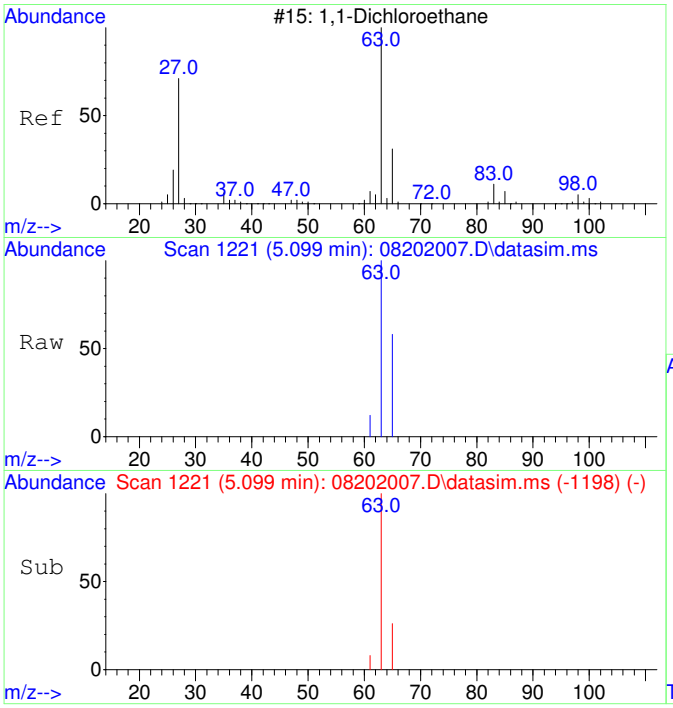


#3
trans-1,2-Dichloroethene
Concen: 149.50 ug/L
RT: 4.396 min Scan# 1115
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 4743

Ion	Ratio	Lower	Upper
61	100		
63	39.2	2.4	62.4

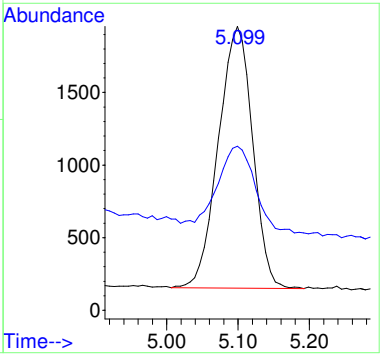


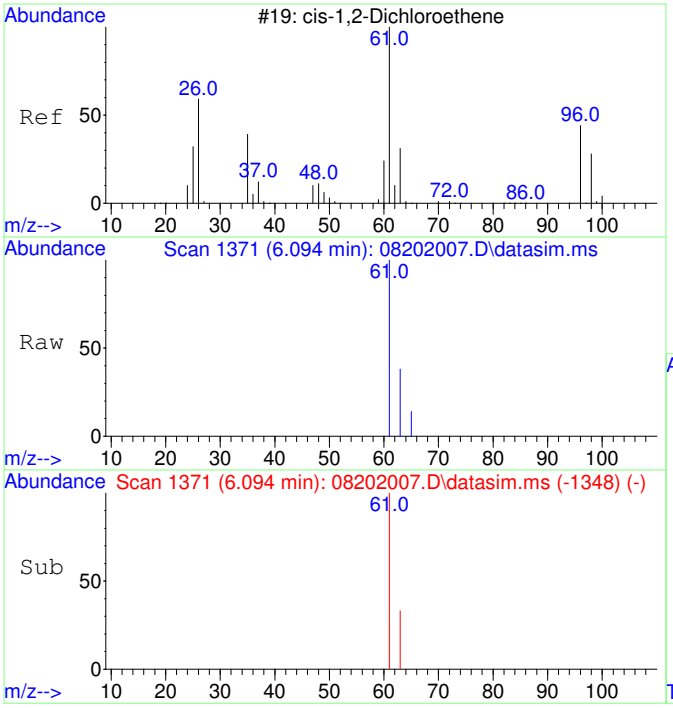


#4
1,1-Dichloroethane
Concen: 152.35 ug/L
RT: 5.099 min Scan# 1221
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 63 Resp: 6017

Ion	Ratio	Lower	Upper
63	100		
65	39.7	1.8	61.8

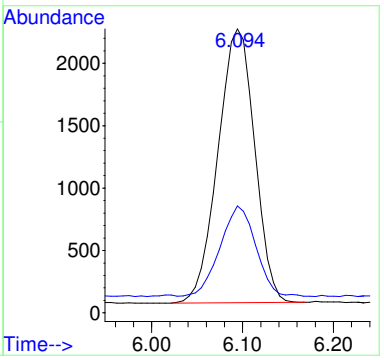


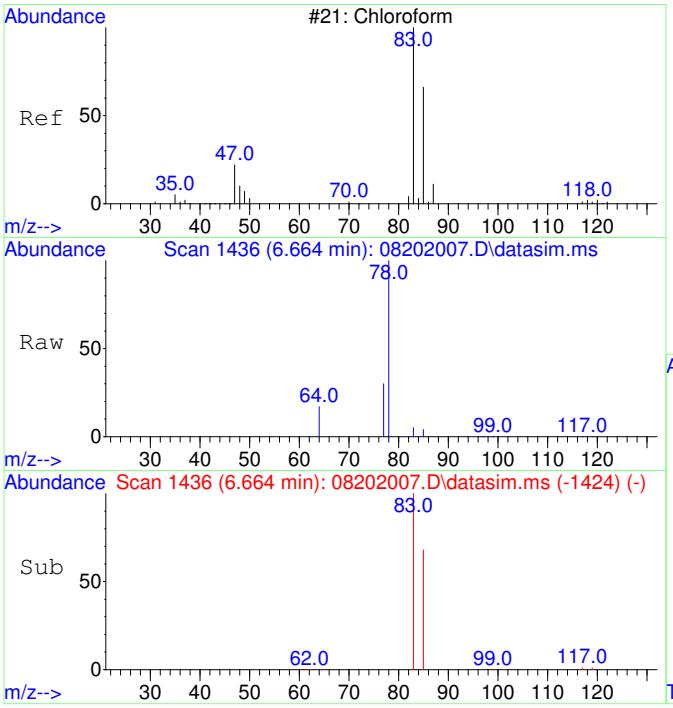


#5
cis-1,2-Dichloroethene
Concen: 148.27 ug/L
RT: 6.094 min Scan# 1371
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 6181

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

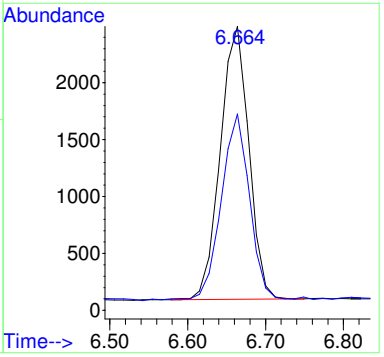


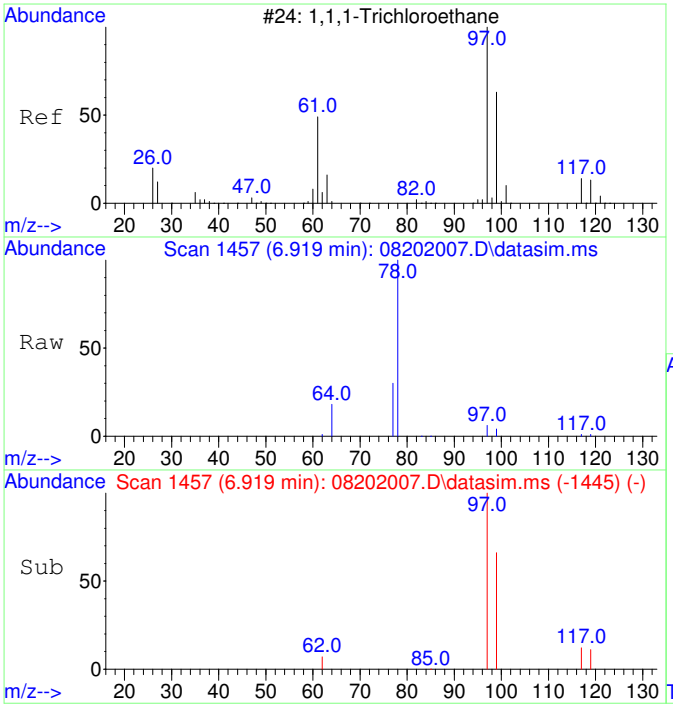


#6
Chloroform
Concen: 142.98 ug/L
RT: 6.664 min Scan# 1436
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 83 Resp: 6101

Ion	Ratio	Lower	Upper
83	100		
85	69.0	35.1	95.1

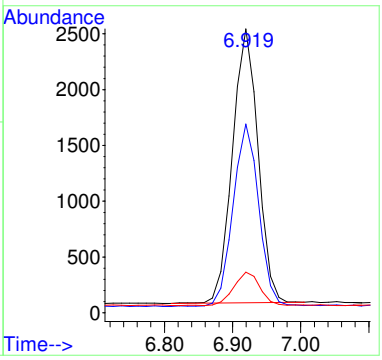


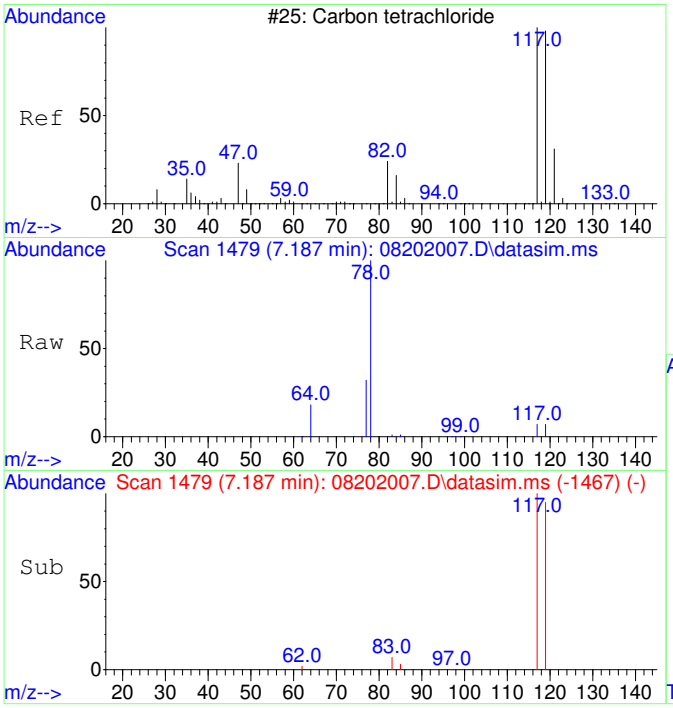


#7
1,1,1-Trichloroethane
Concen: 137.55 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 97 Resp: 6374

Ion	Ratio	Lower	Upper
97	100		
99	66.5	34.6	94.6
117	12.8	0.0	43.2

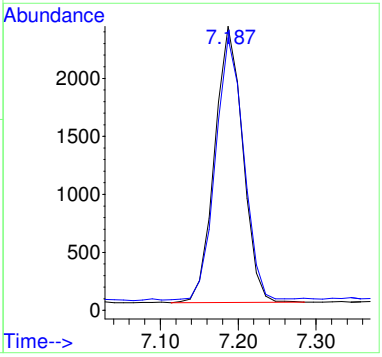


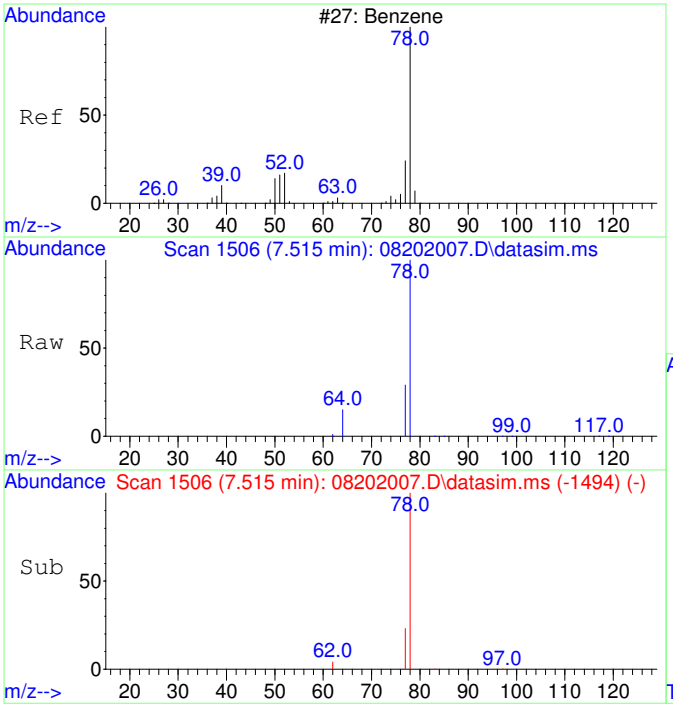


#8
Carbon tetrachloride
Concen: 137.06 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:117 Resp: 5978

Ion	Ratio	Lower	Upper
117	100		
119	94.6	66.4	126.4

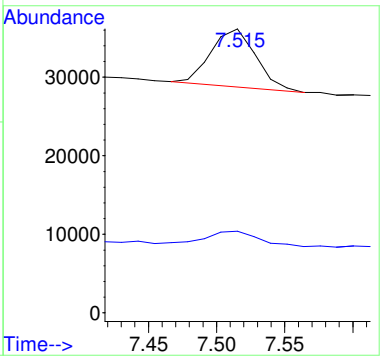


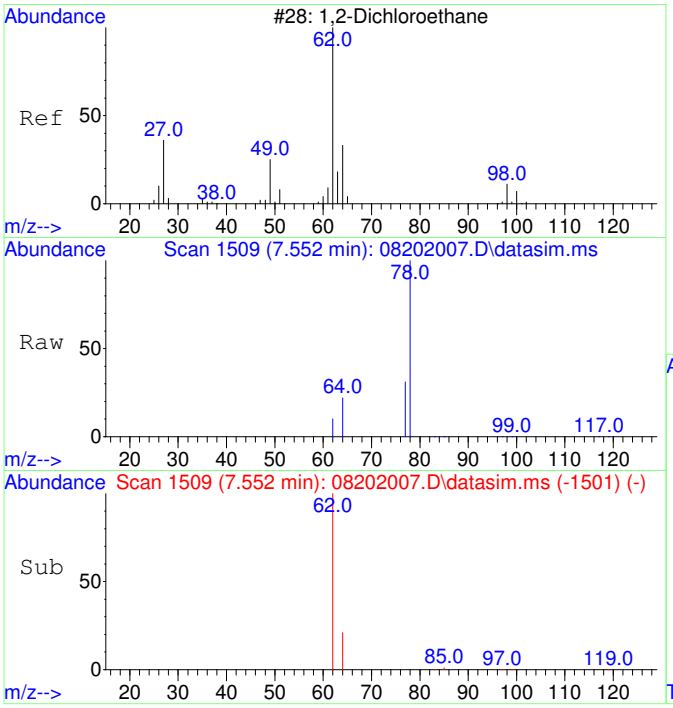


#9
Benzene
Concen: 140.33 ug/L
RT: 7.515 min Scan# 1506
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 78 Resp: 16396

Ion	Ratio	Lower	Upper
78	100		
77	35.6	0.0	53.2

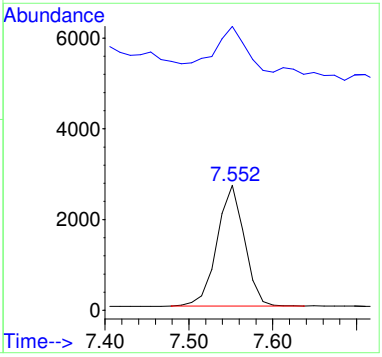


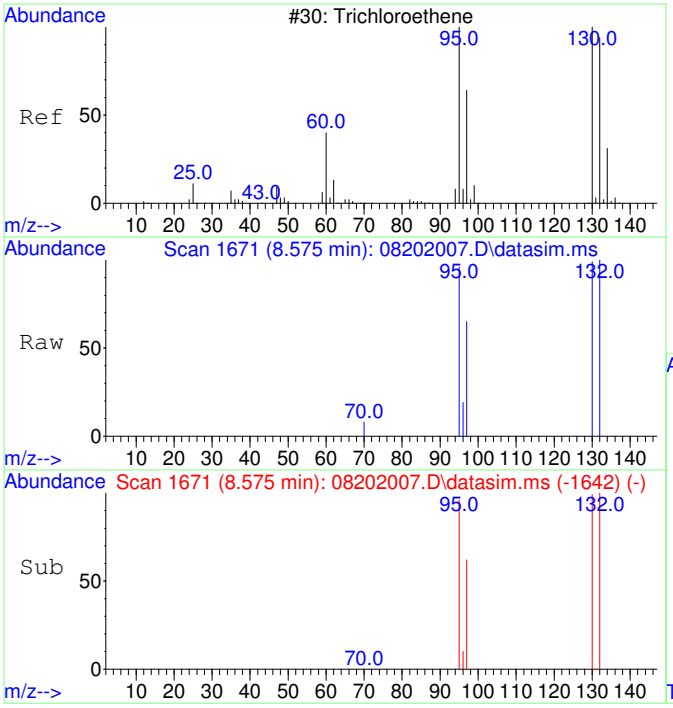


#10
1,2-Dichloroethane
Concen: 144.21 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 62 Resp: 6015

Ion	Ratio	Lower	Upper
62	100		
64	43.6	2.3	62.3

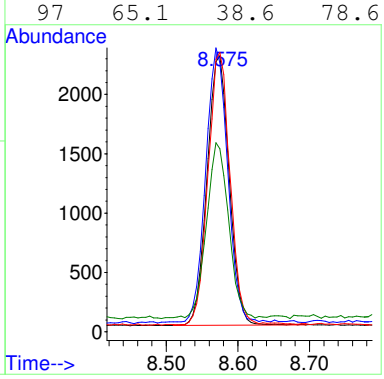


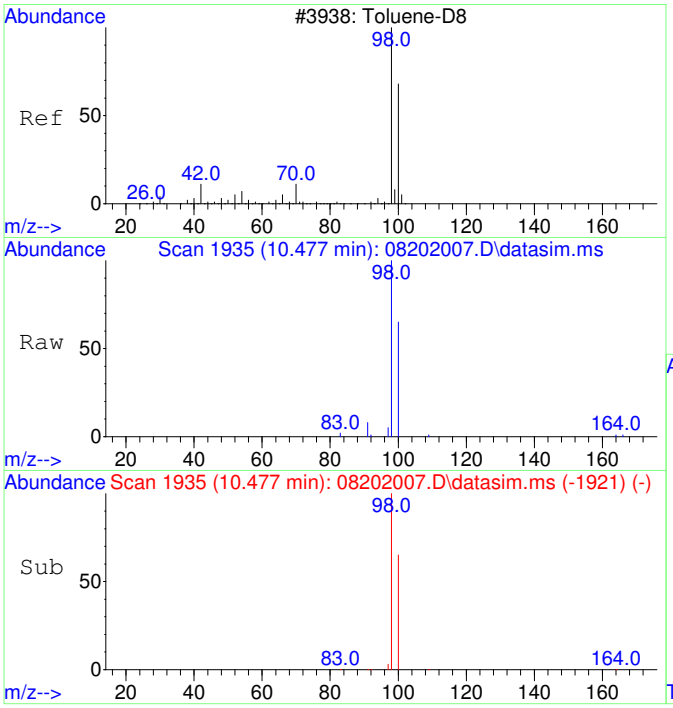


#11
Trichloroethene
Concen: 138.83 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.005 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:130 Resp: 4884

Ion	Ratio	Lower	Upper
130	100		
95	100.8	60.7	120.7
132	98.9	76.0	116.0
97	65.1	38.6	78.6

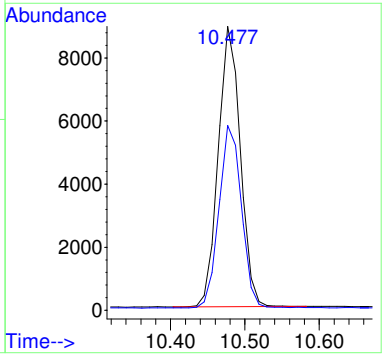


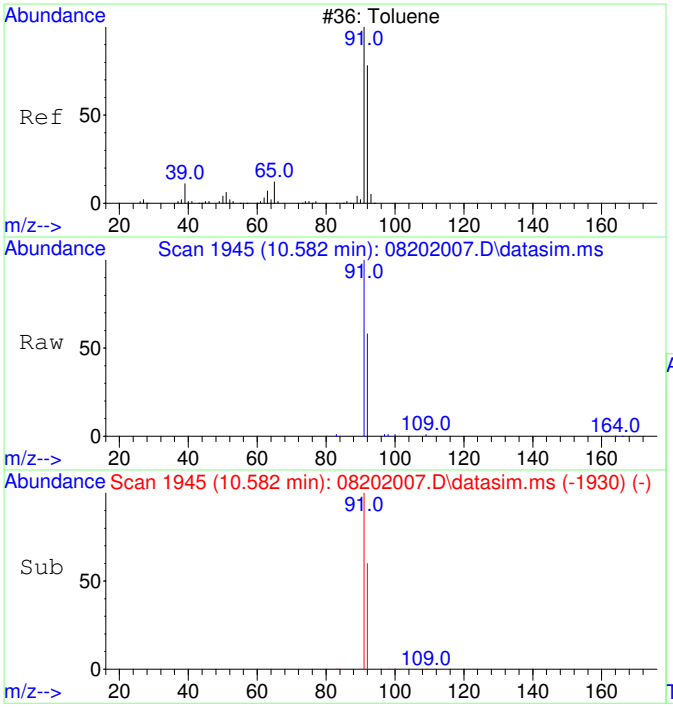


#12
Toluene-d8
Concen: 135.87 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 98 Resp: 18291

Ion	Ratio	Lower	Upper
98	100		
100	65.9	37.1	97.1

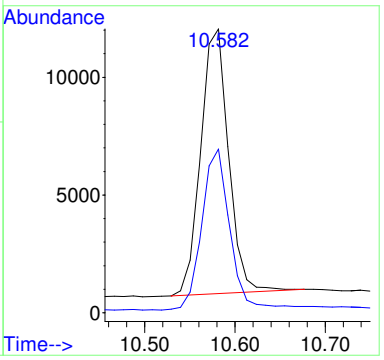


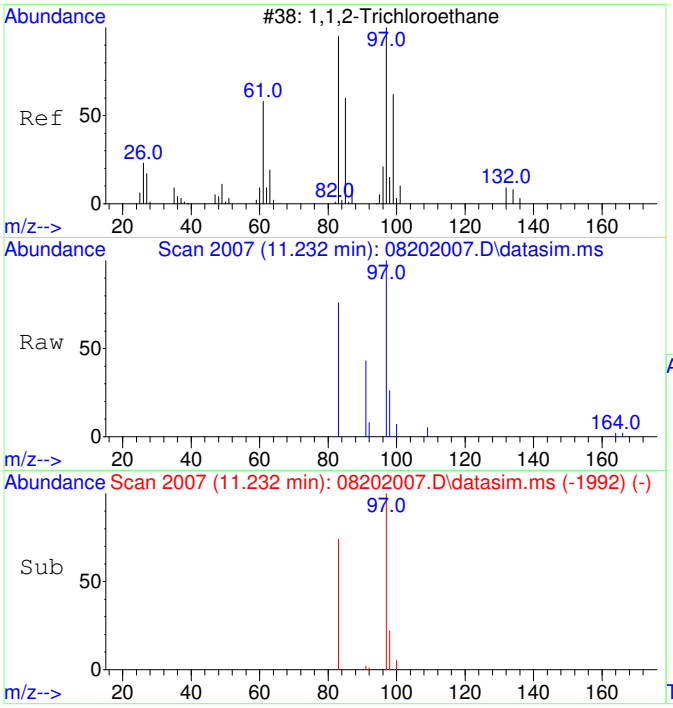


#13
Toluene
Concen: 141.38 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 24264

Ion	Ratio	Lower	Upper
91	100		
92	61.5	29.9	89.9

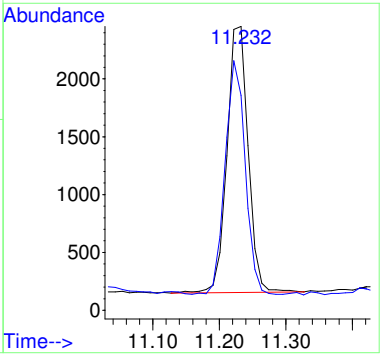


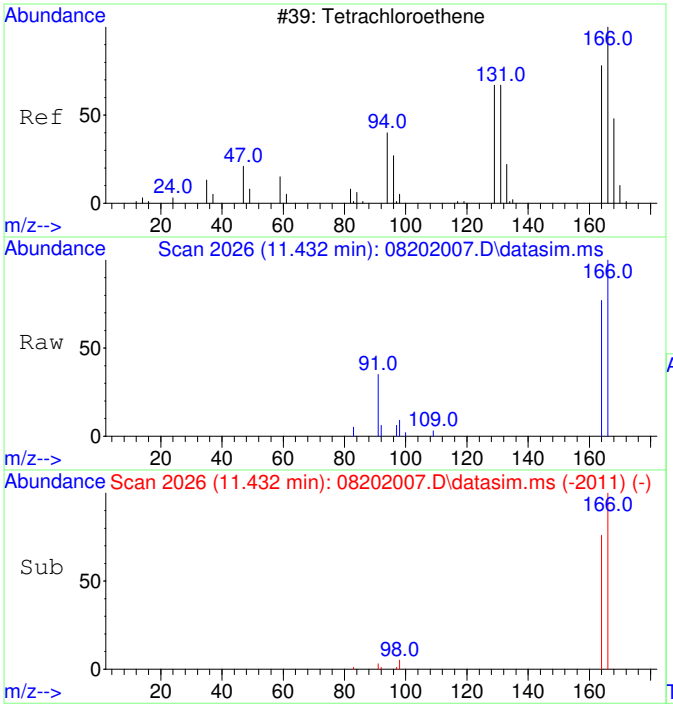


#14
1,1,2-Trichloroethane
Concen: 135.38 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 97 Resp: 5063

Ion	Ratio	Lower	Upper
97	100		
83	83.5	51.2	111.2

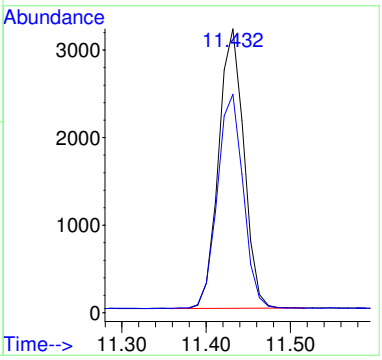


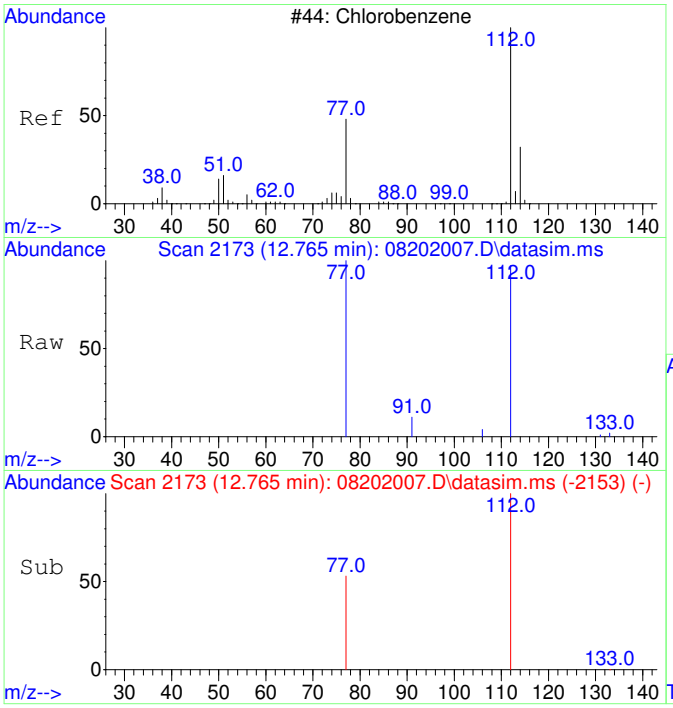


#15
Tetrachloroethene
Concen: 133.89 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:166 Resp: 6650

Ion	Ratio	Lower	Upper
166	100		
164	78.5	47.8	107.8

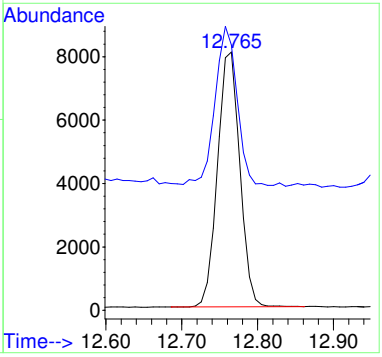


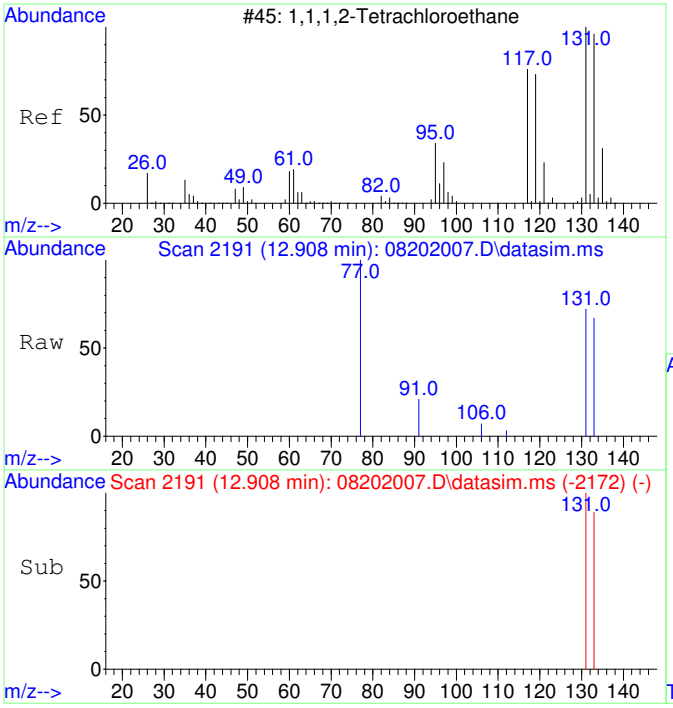


#16
Chlorobenzene
Concen: 133.98 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:112 Resp: 16465

Ion	Ratio	Lower	Upper
112	100		
77	60.1	23.6	83.6

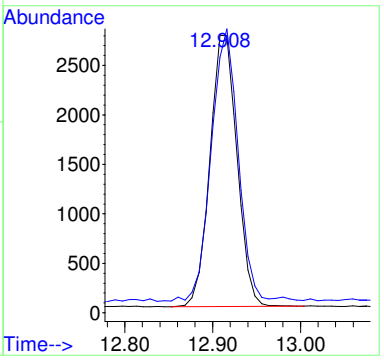


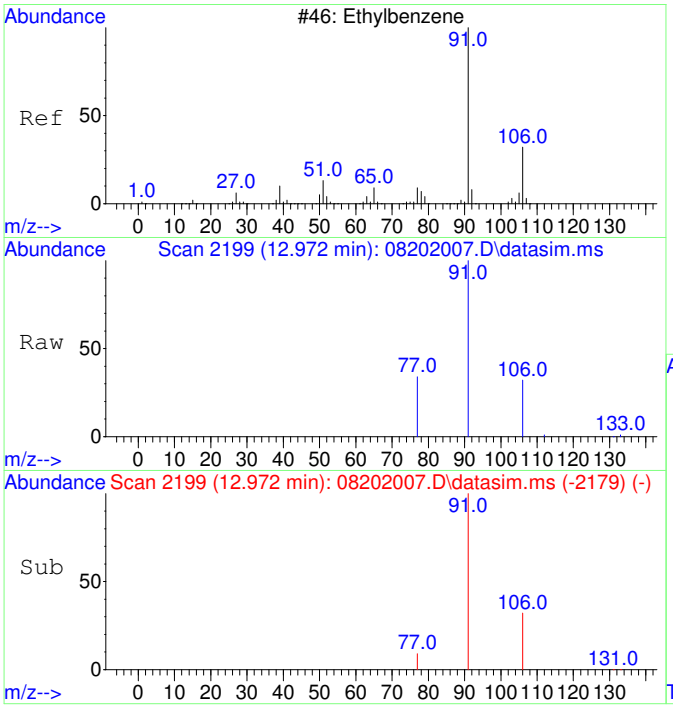


#17
1,1,1,2-Tetrachloroethane
Concen: 133.44 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:131 Resp: 5876

Ion	Ratio	Lower	Upper
131	100		
133	97.8	66.3	126.3

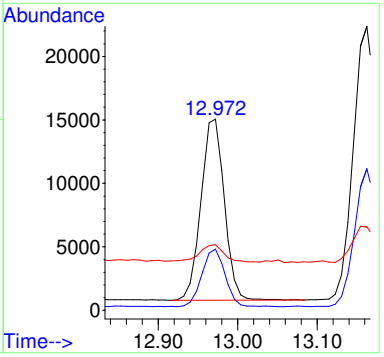


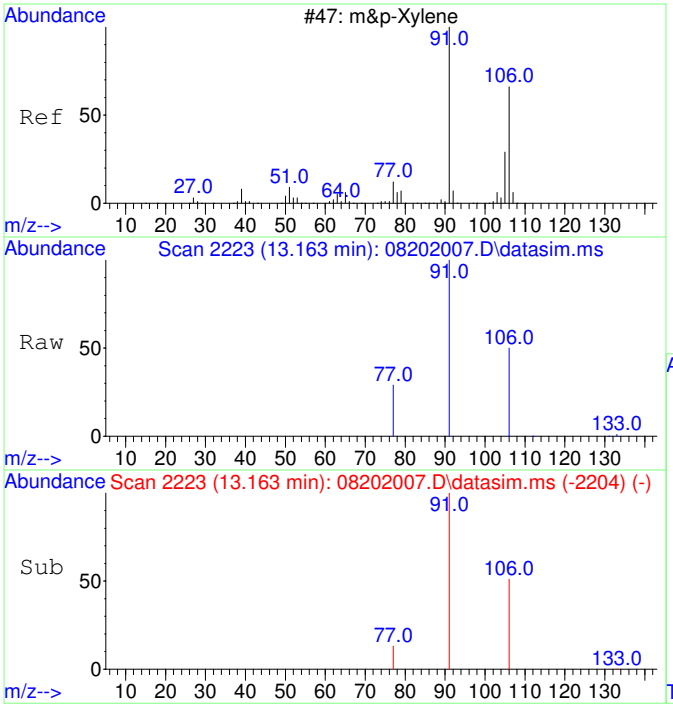


#18
Ethylbenzene
Concen: 139.19 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 29078

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	10.1	0.0	38.2

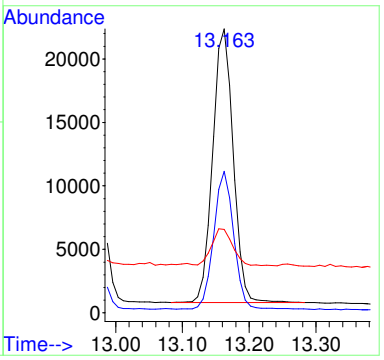


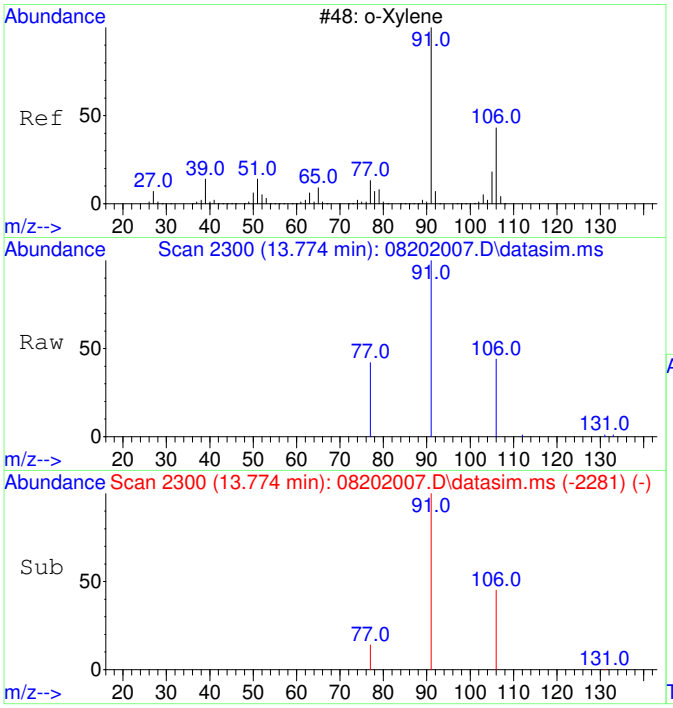


#19
m&p-Xylene
Concen: 281.41 ug/L
RT: 13.163 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 45947

Ion	Ratio	Lower	Upper
91	100		
106	48.7	22.2	82.2
77	14.0	0.0	42.4

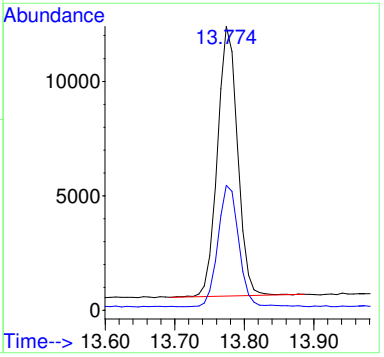


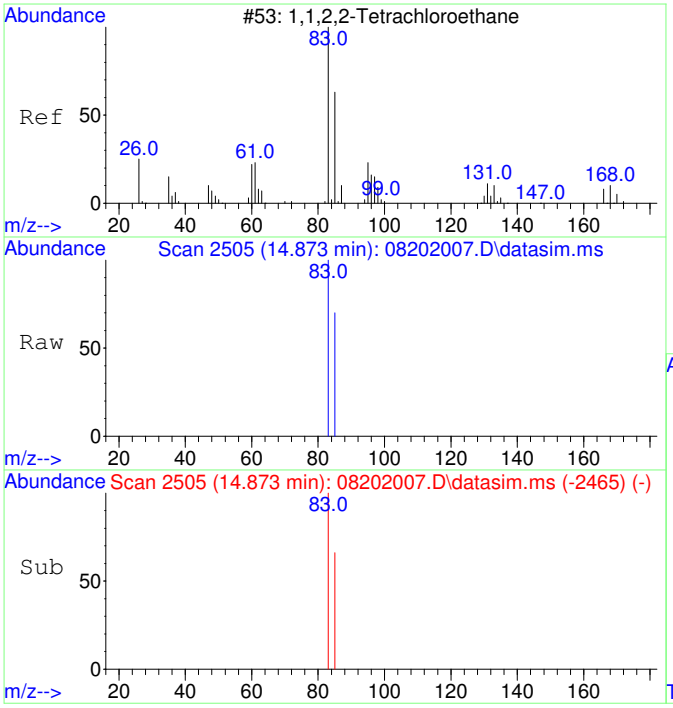


#20
o-Xylene
Concen: 135.47 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 23631

Ion	Ratio	Lower	Upper
91	100		
106	46.7	19.2	79.2

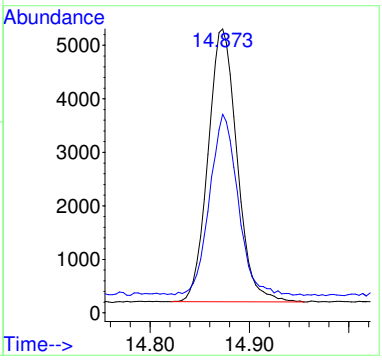


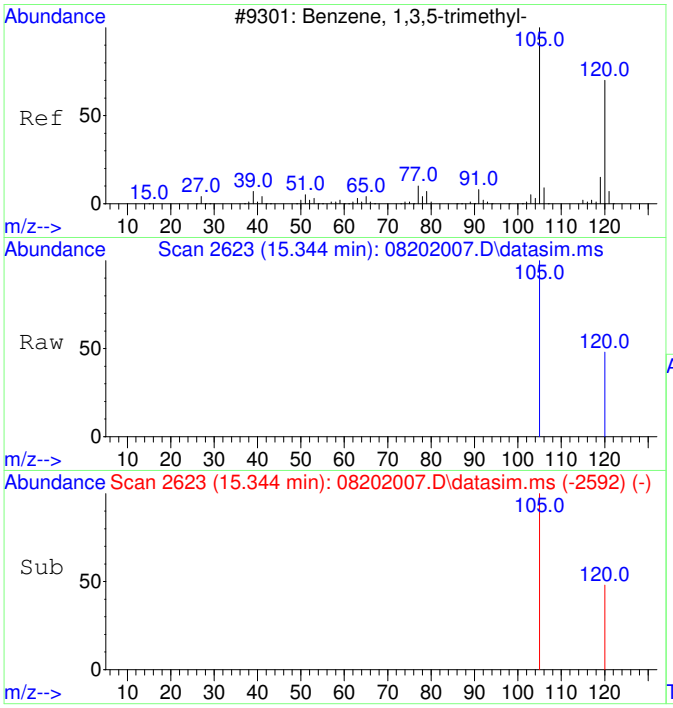


#21
1,1,2,2-Tetrachloroethane
Concen: 133.61 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 83 Resp: 10329

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.8	94.8

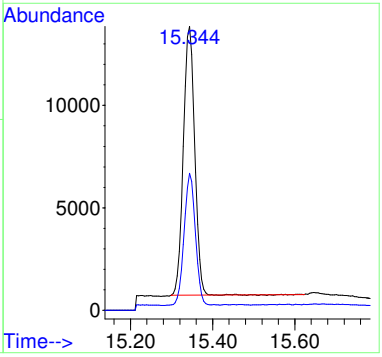


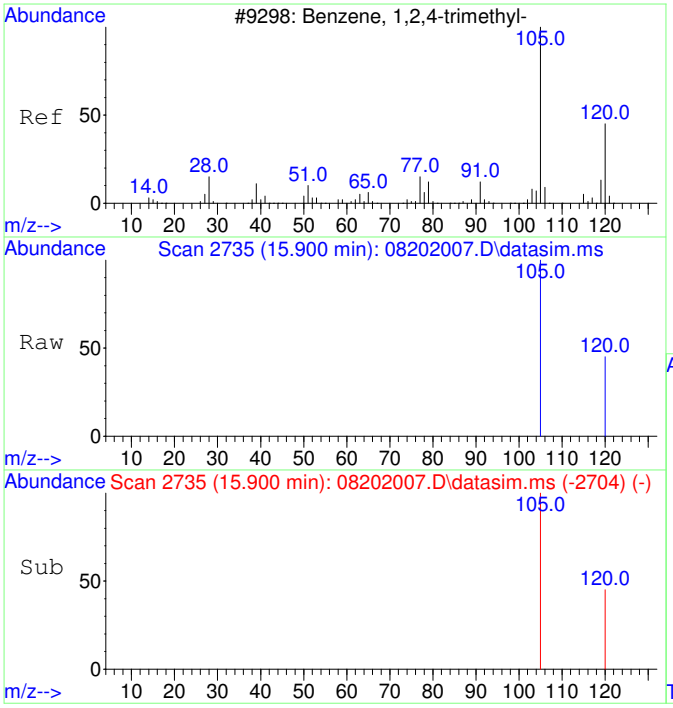


#22
1,3,5-Trimethylbenzene
Concen: 134.37 ug/L
RT: 15.344 min Scan# 2623
Delta R.T. -0.001 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:105 Resp: 24949

Ion	Ratio	Lower	Upper
105	100		
120	48.8	21.1	81.1

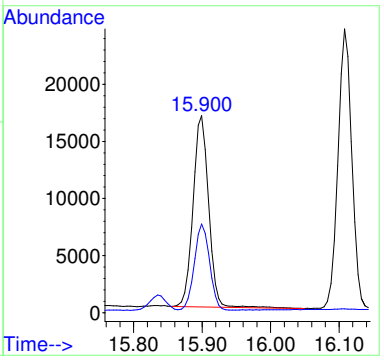


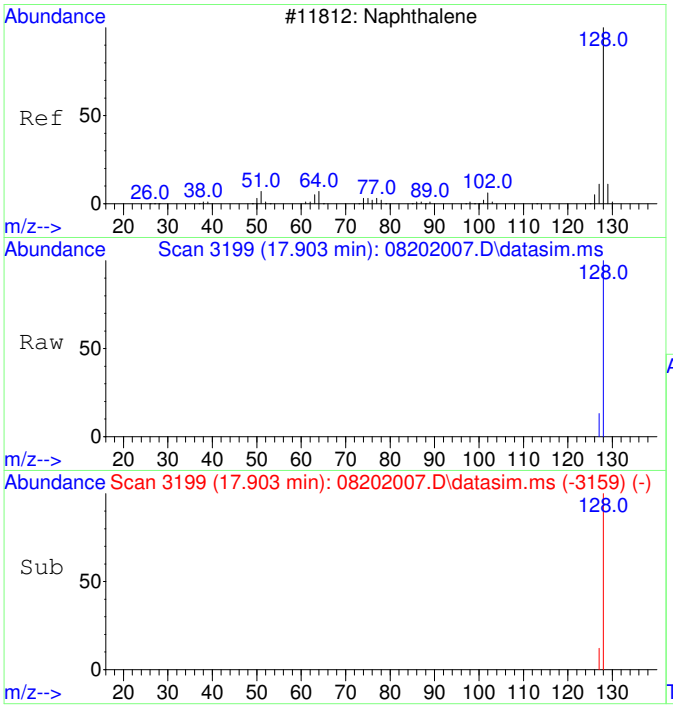


#23
1,2,4-Trimethylbenzene
Concen: 137.33 ug/L
RT: 15.900 min Scan# 2735
Delta R.T. 0.004 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:105 Resp: 26485

Ion	Ratio	Lower	Upper
105	100		
120	43.4	17.2	77.2

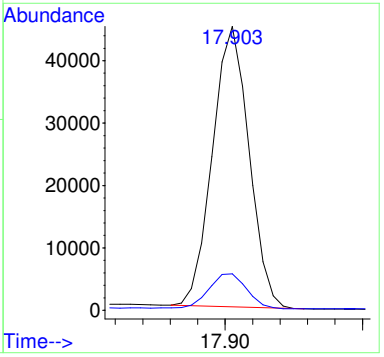


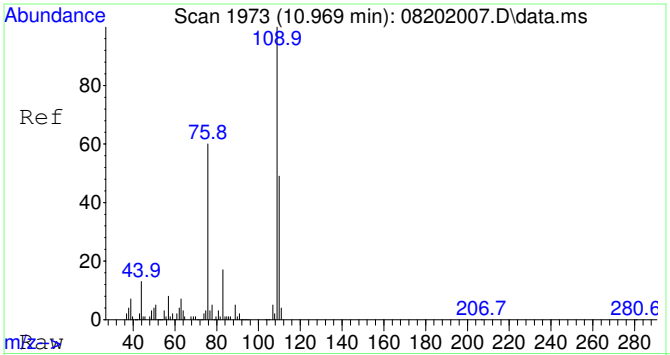


#24
Naphthalene
Concen: 135.77 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:128 Resp: 41384

Ion	Ratio	Lower	Upper
128	100		
127	12.6	0.0	42.5

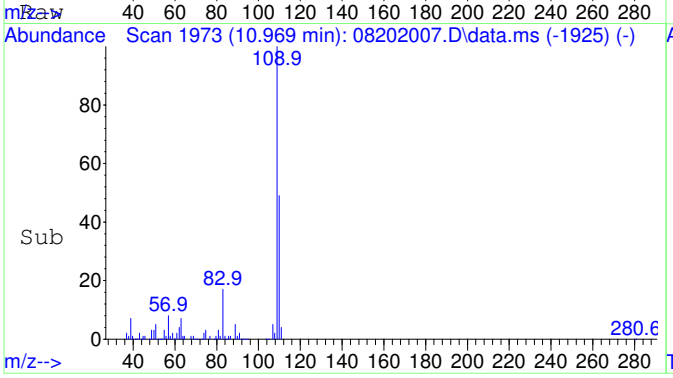


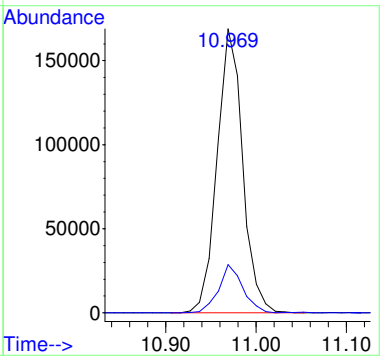


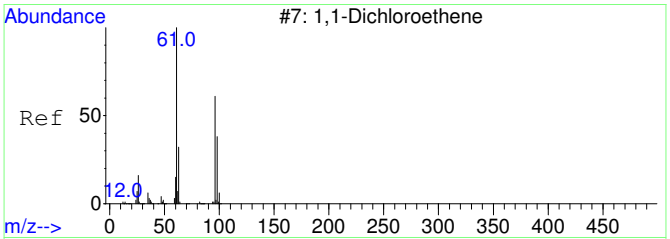
#25
2-Fluorotoluene SCAN
Concen: 4966.84 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:109 Resp: 332955

Ion	Ratio	Lower	Upper
109	100		
83	15.9	0.0	43.8



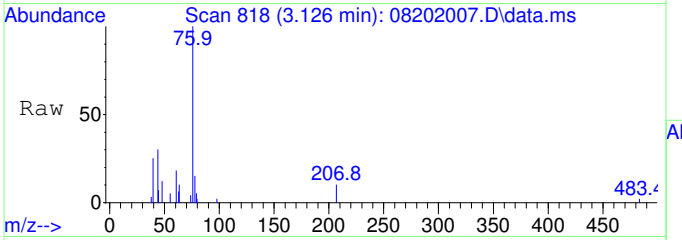


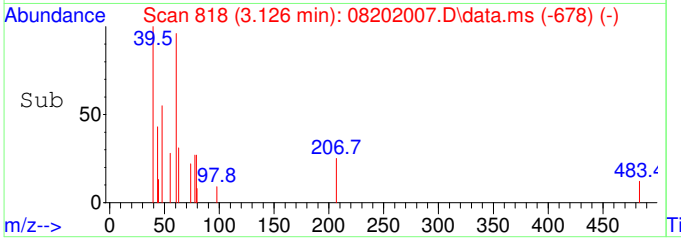


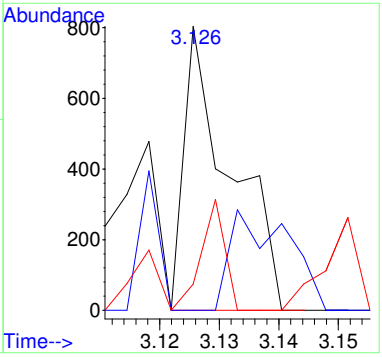
#26
1,1-Dichloroethene SCAN
Concen: 30.49 ug/L
RT: 3.126 min Scan# 818
Delta R.T. 0.019 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

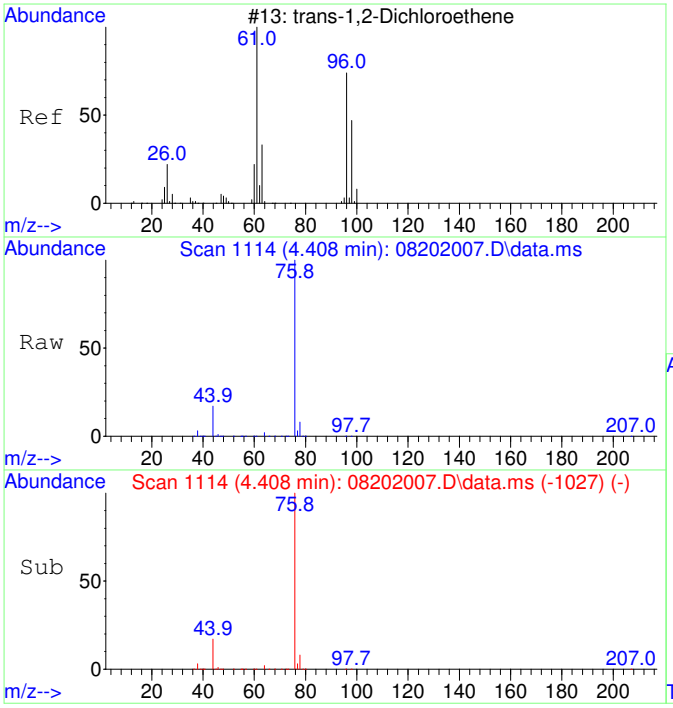
Tgt Ion: 61 Resp: 434

Ion	Ratio	Lower	Upper
61	100		
96	44.0	33.1	93.1
98	19.8	11.2	71.2





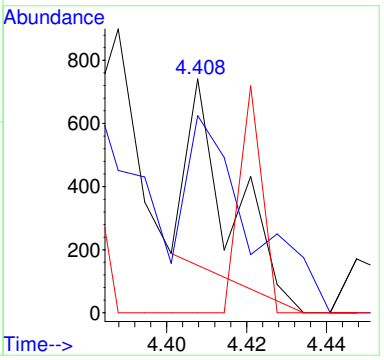


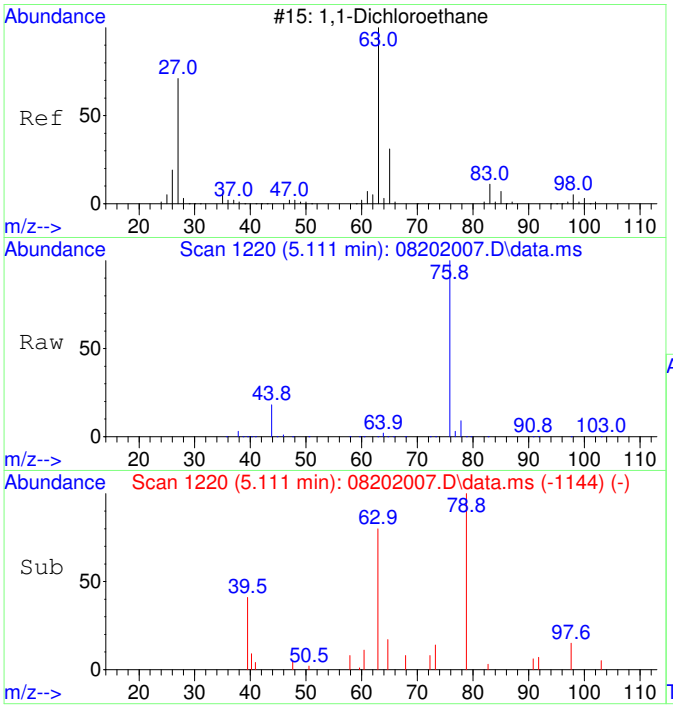


#27
trans-1,2-Dichloroethene SCAN
Concen: 22.42 ug/L
RT: 4.408 min Scan# 1114
Delta R.T. 0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 395

Ion	Ratio	Lower	Upper
61	100		
96	126.6	49.0	109.0#
97	72.4	20.5	80.5

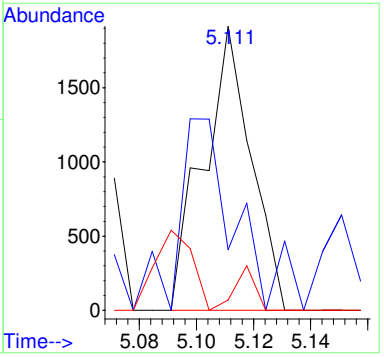


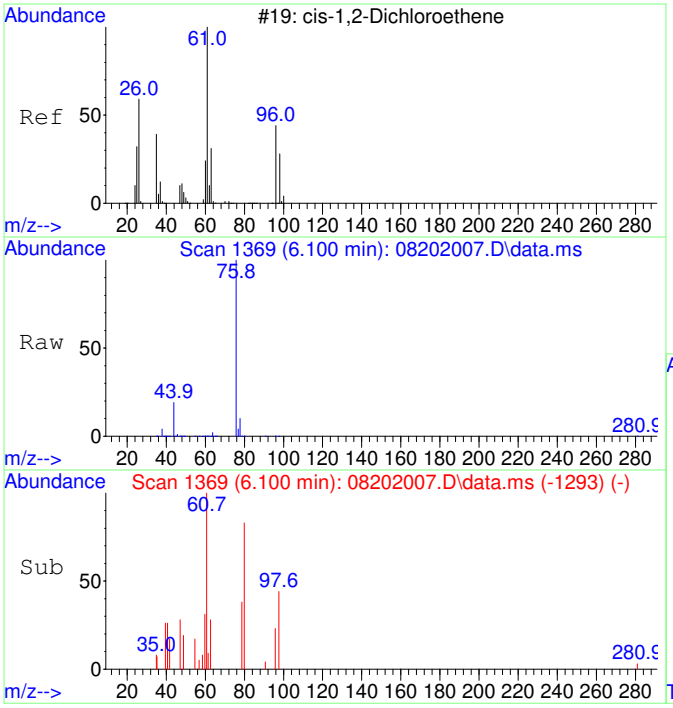


#28
1,1-Dichloroethane SCAN
Concen: 109.38 ug/L
RT: 5.111 min Scan# 1220
Delta R.T. 0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 63 Resp: 2230

Ion	Ratio	Lower	Upper
63	100		
65	0.0	1.3	61.3#
83	4.1	0.0	45.9

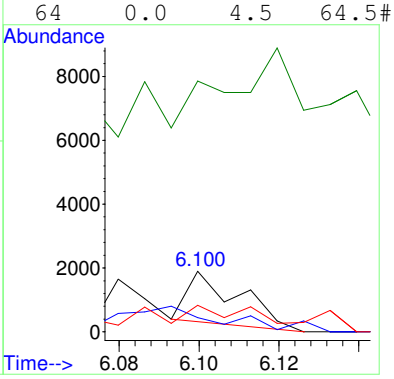


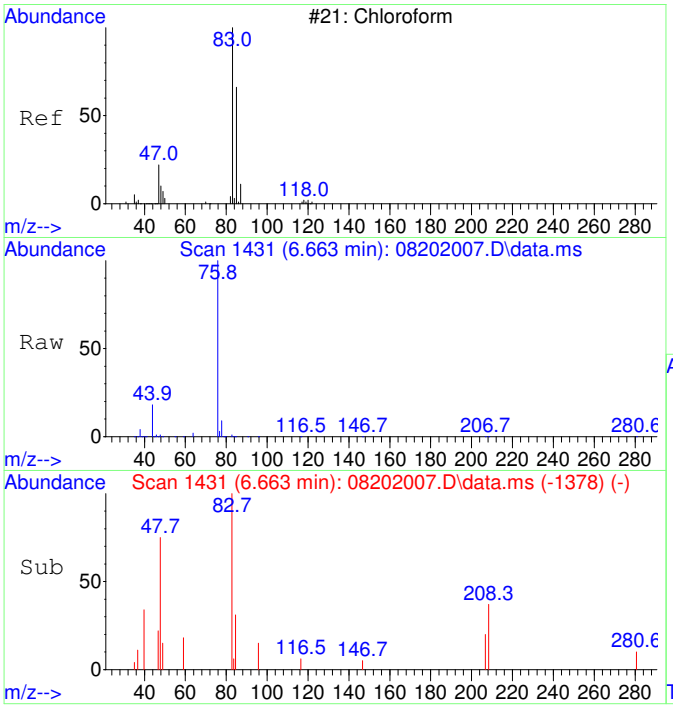


#29
cis-1,2-Dichloroethene SCAN
Concen: 63.68 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 1391

Ion	Ratio	Lower	Upper
61	100		
96	143.3	39.9	99.9#
98	66.9	13.5	73.5
64	0.0	4.5	64.5#

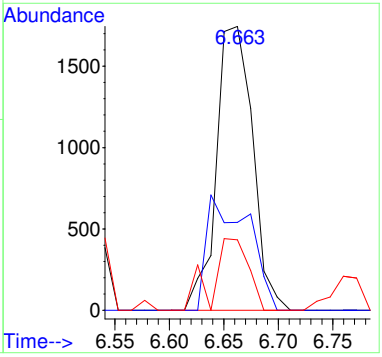


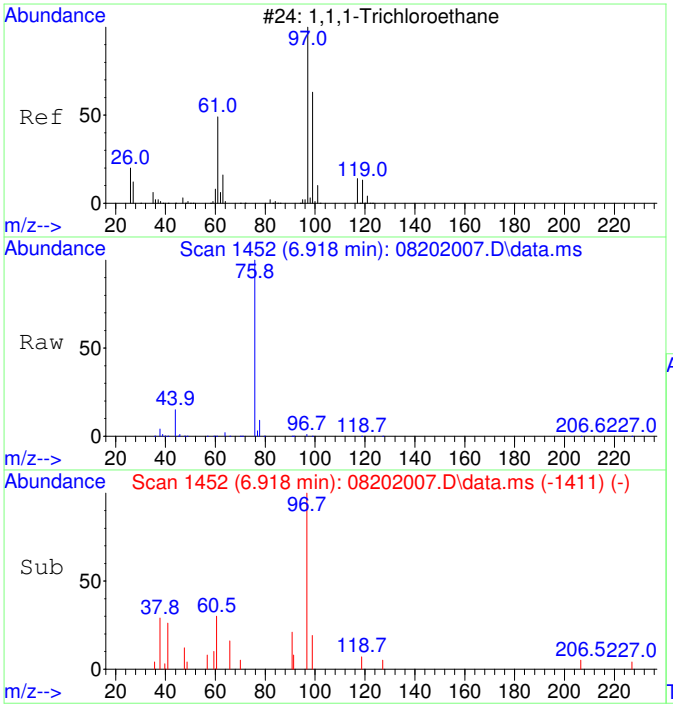


#30
Chloroform SCAN
Concen: 171.15 ug/L
RT: 6.663 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 83 Resp: 4055

Ion	Ratio	Lower	Upper
83	100		
85	0.0	34.6	94.6#
47	25.2	0.0	53.4

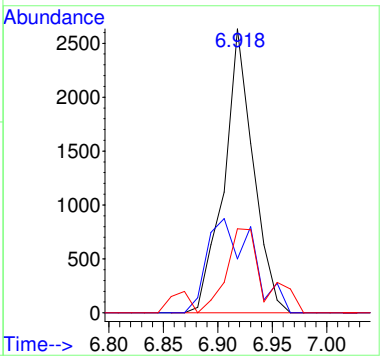


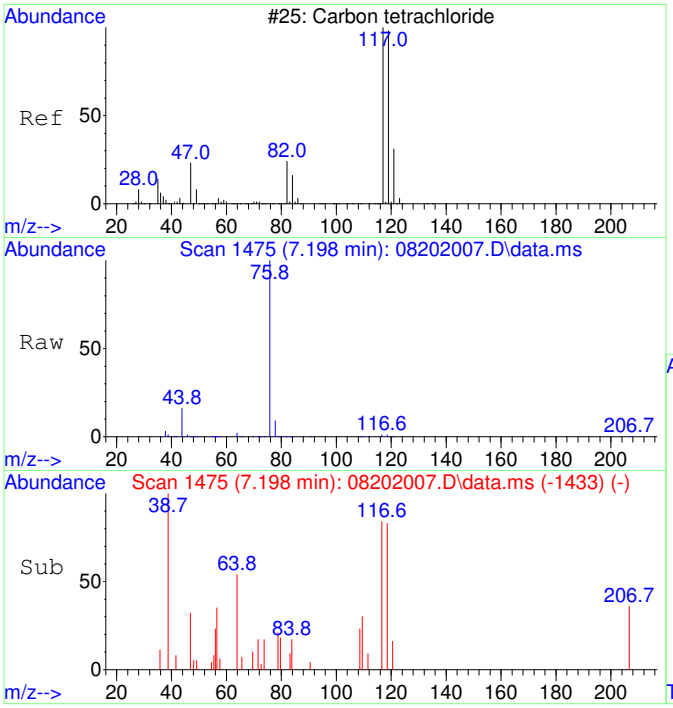


#31
1,1,1-Trichloroethane SCAN
Concen: 228.30 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 97 Resp: 4929

Ion	Ratio	Lower	Upper
97	100		
99	51.1	43.6	103.6
61	37.8	18.0	78.0

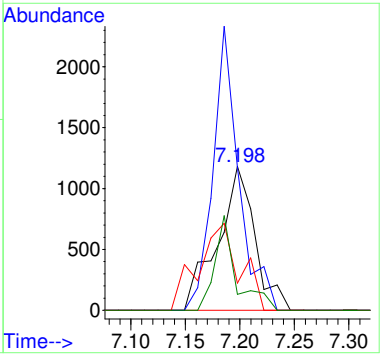


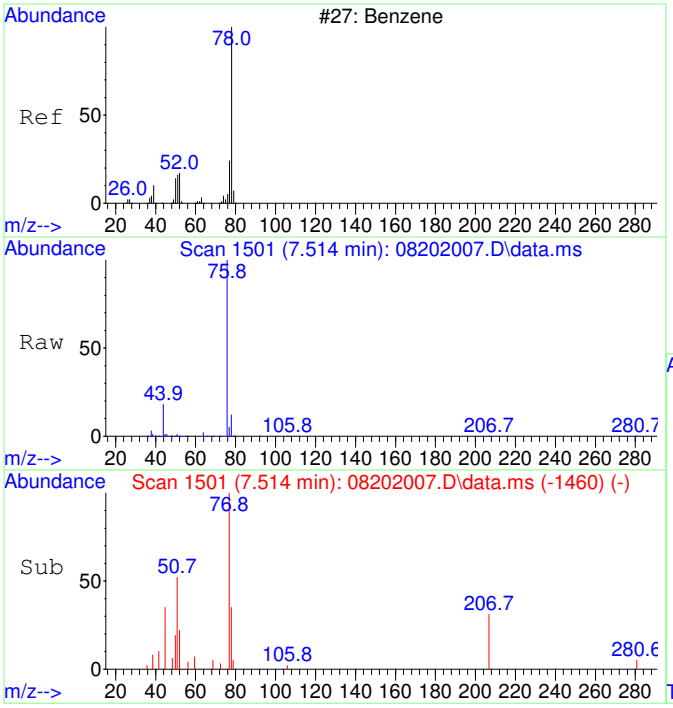


#32
Carbon tetrachloride SCAN
Concen: 124.33 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. 0.012 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:117 Resp: 2800

Ion	Ratio	Lower	Upper
117	100		
119	137.3	75.5	135.5#
121	67.3	0.0	58.8#
82	37.5	0.0	59.2

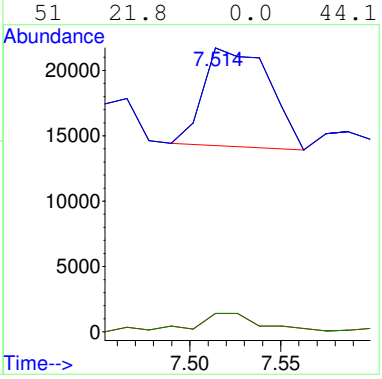


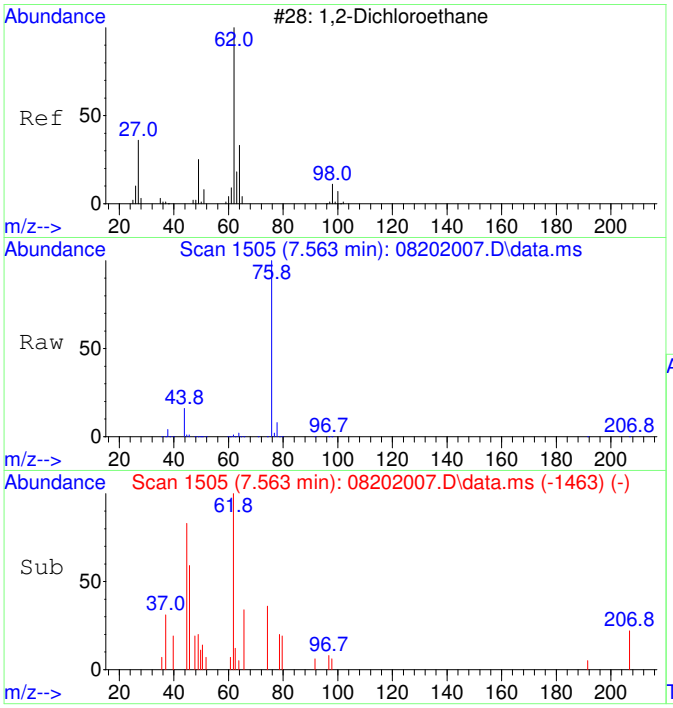


#33
Benzene SCAN
Concen: 317.45 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 78 Resp: 18871

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	21.8	0.0	47.9
51	21.8	0.0	44.1

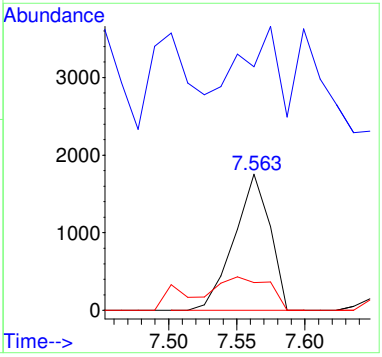


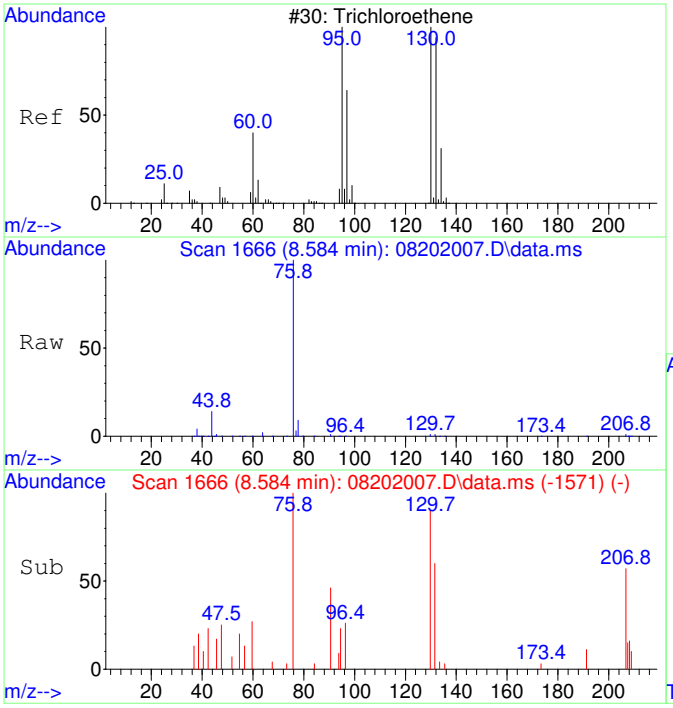


#34
1,2-Dichloroethane SCAN
Concen: 146.10 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 62 Resp: 3207

Ion	Ratio	Lower	Upper
62	100		
64	42.1	5.2	65.2
49	0.0	3.9	63.9#

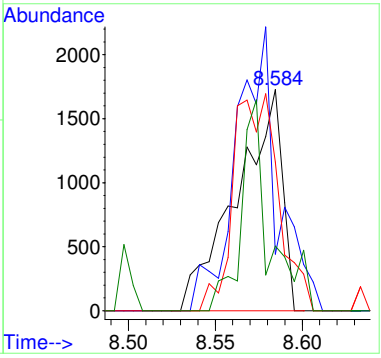


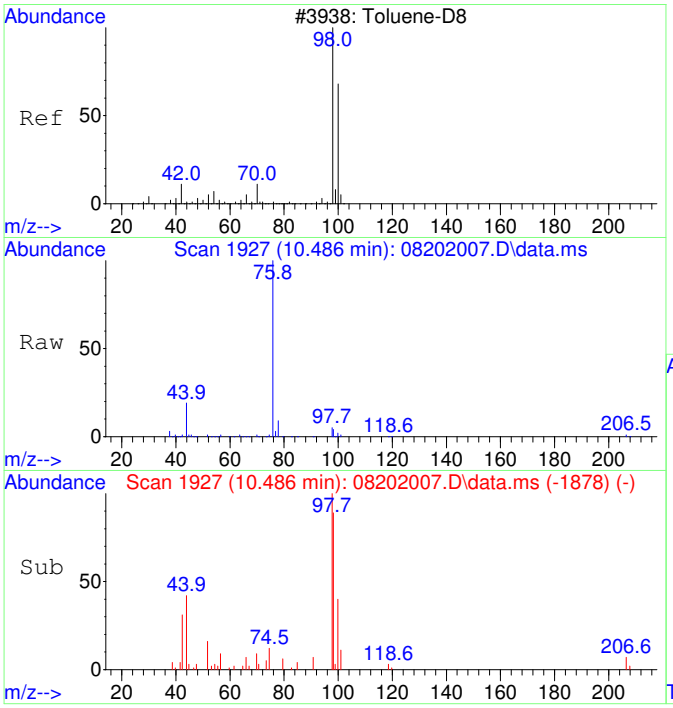


#35
Trichloroethene SCAN
Concen: 193.80 ug/L
RT: 8.584 min Scan# 1666
Delta R.T. 0.016 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:130 Resp: 3166

Ion	Ratio	Lower	Upper
130	100		
95	116.2	60.5	120.5
132	96.6	59.6	119.6
97	58.8	28.2	88.2

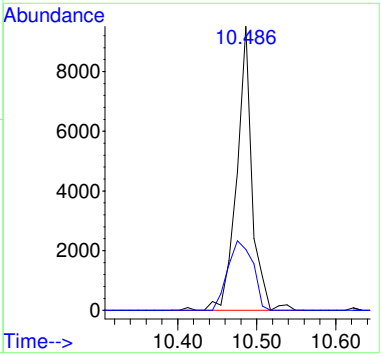


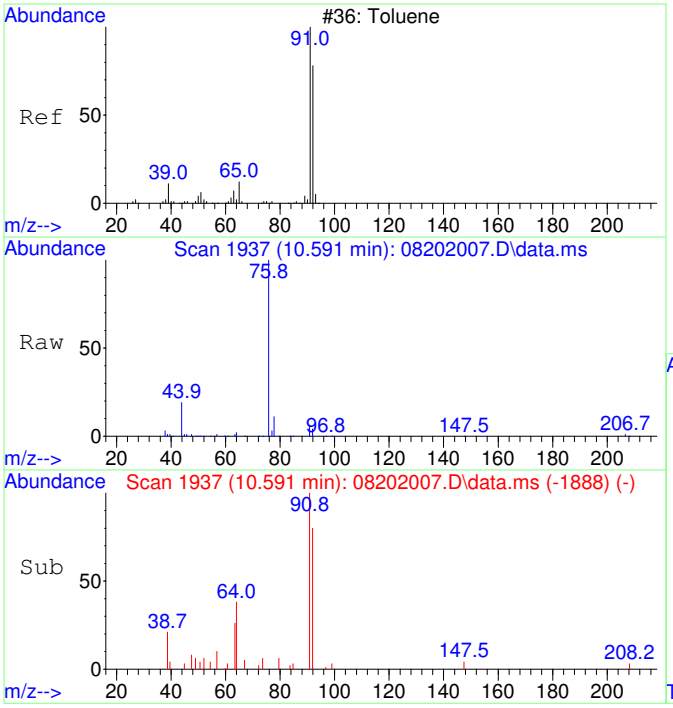


#36
Toluene-d8 SCAN
Concen: 194.45 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 98 Resp: 12748

Ion	Ratio	Lower	Upper
98	100		
100	40.3	40.0	100.0

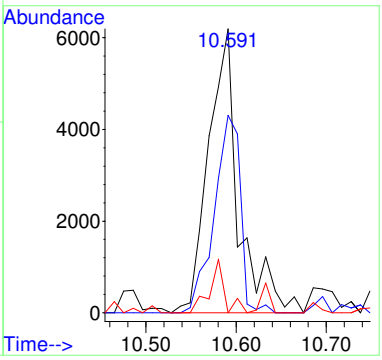


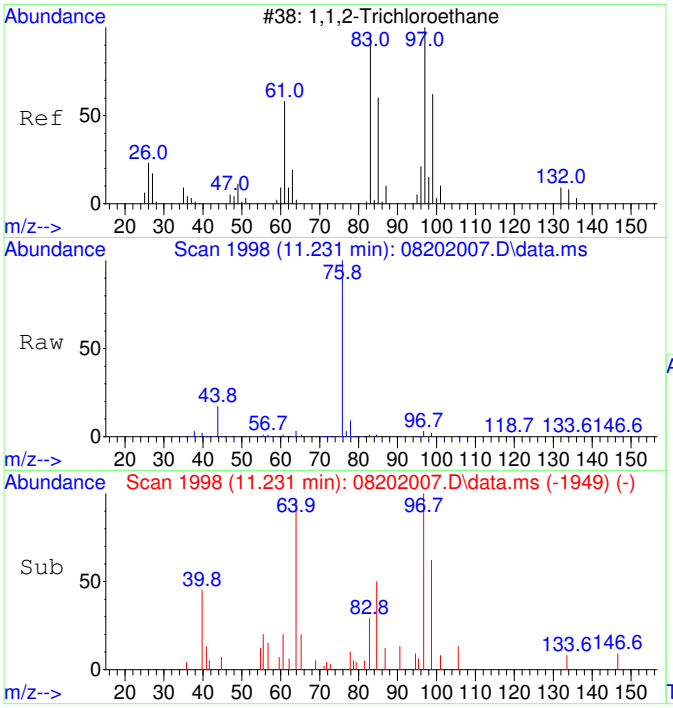


#37
Toluene SCAN
Concen: 171.17 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 14371

Ion	Ratio	Lower	Upper
91	100		
92	60.5	28.3	88.3
65	9.4	0.0	41.0

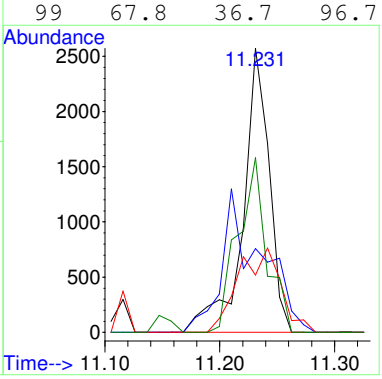


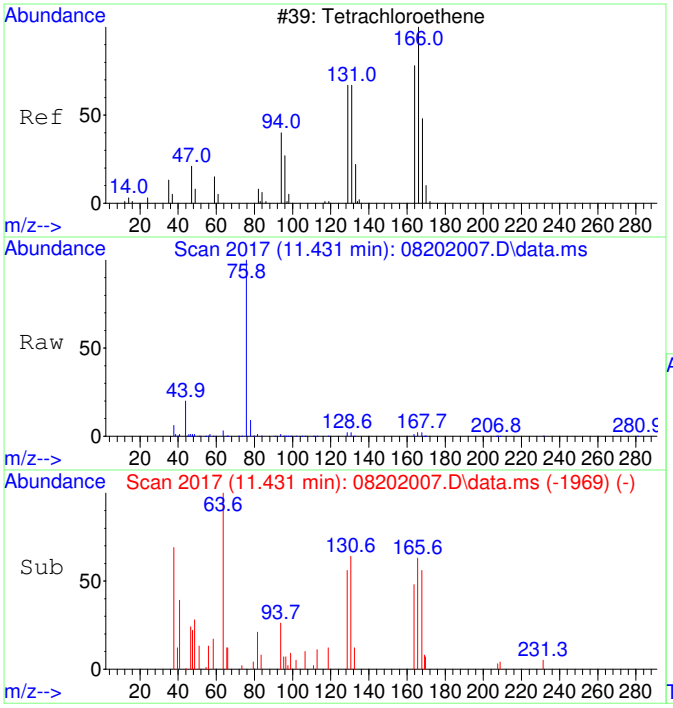


#38
1,1,2-Trichloroethane SCAN
Concen: 216.66 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 97 Resp: 4083

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	48.2	32.1	92.1
99	67.8	36.7	96.7

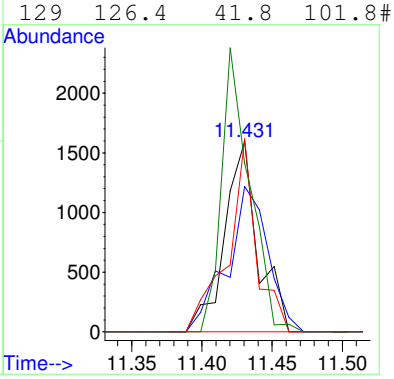


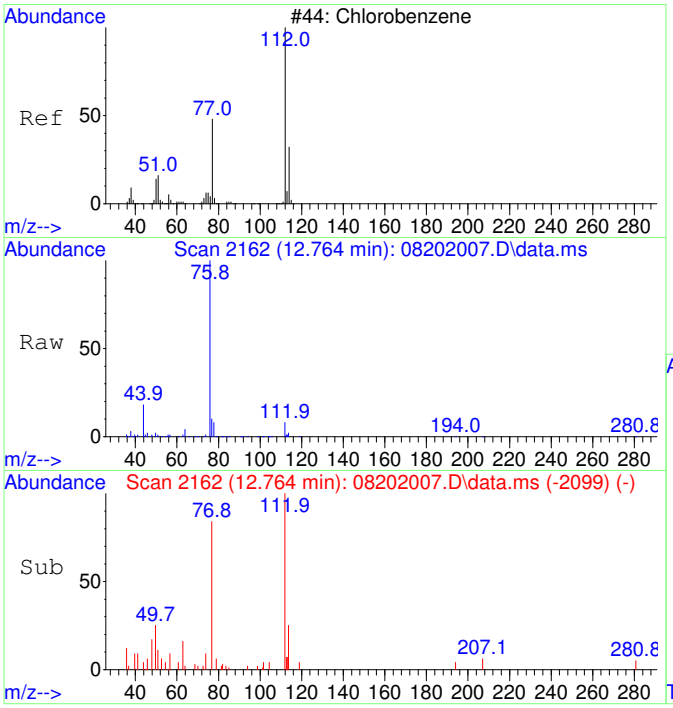


#39
Tetrachloroethene SCAN
Concen: 131.18 ug/L
RT: 11.431 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:166 Resp: 2646

Ion	Ratio	Lower	Upper
166	100		
164	93.8	50.9	110.9
131	86.4	38.7	98.7
129	126.4	41.8	101.8#

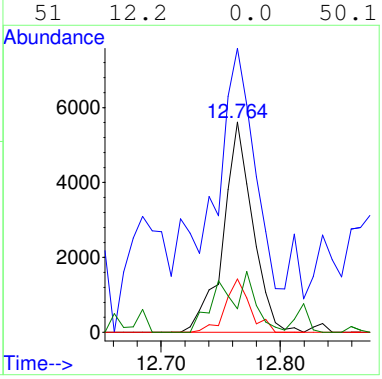


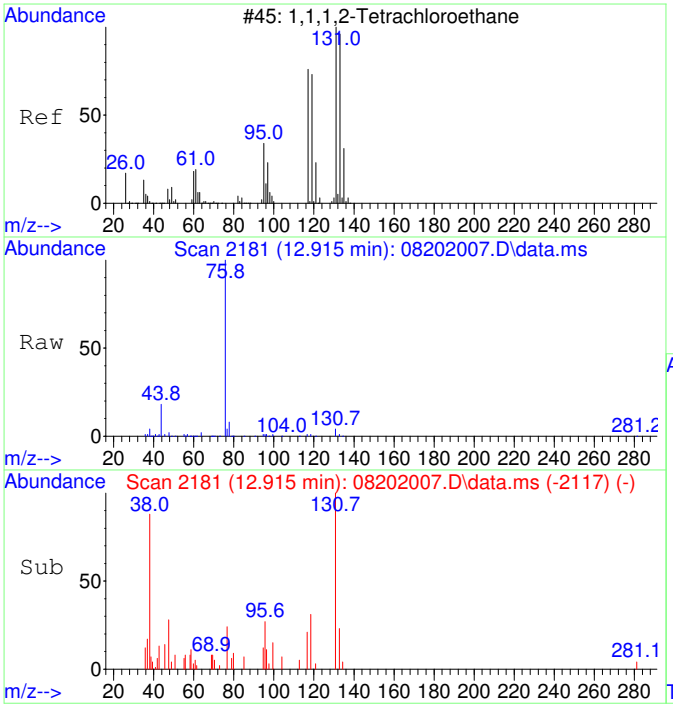


#40
Chlorobenzene SCAN
Concen: 169.04 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:112 Resp: 9698

Ion	Ratio	Lower	Upper
112	100		
77	136.8	28.2	88.2#
114	21.1	2.3	62.3
51	12.2	0.0	50.1

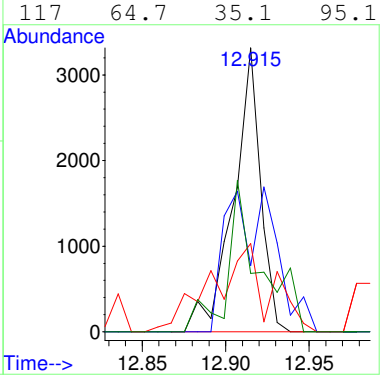


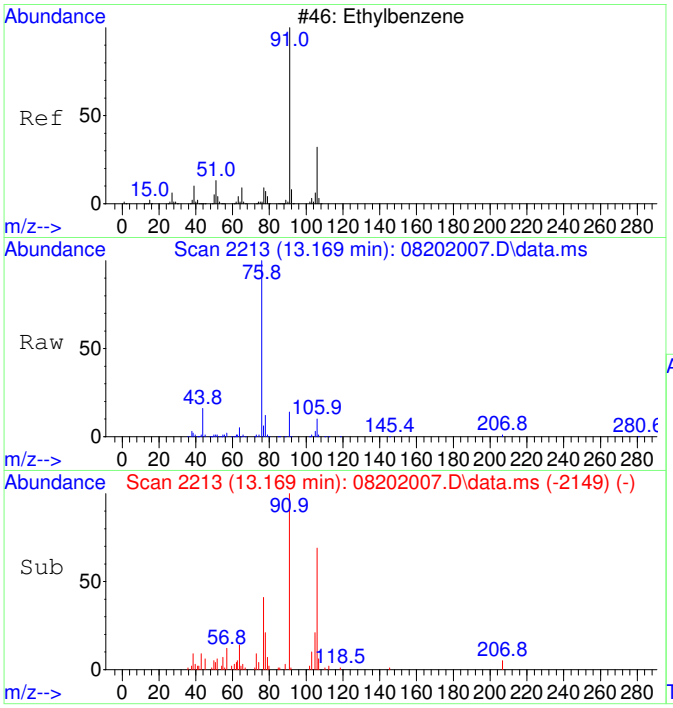


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 177.14 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:131 Resp: 3761

Ion	Ratio	Lower	Upper
131	100		
133	89.9	66.9	126.9
119	65.7	40.4	100.4
117	64.7	35.1	95.1

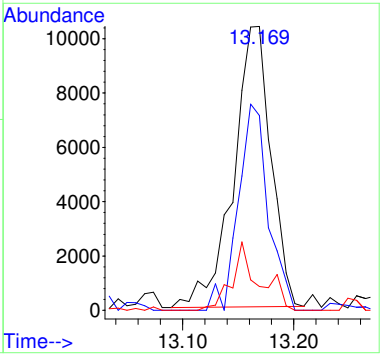


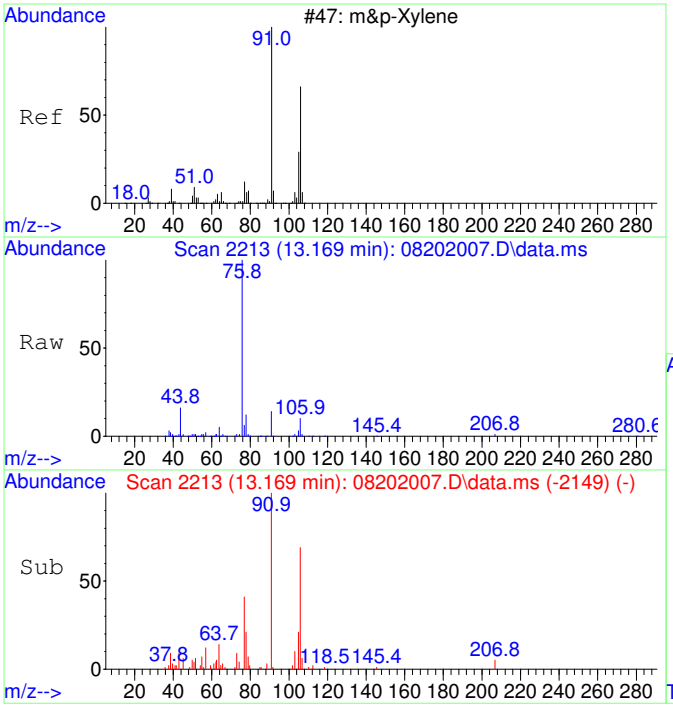


#42
Ethylbenzene SCAN
Concen: 158.20 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 24198

Ion	Ratio	Lower	Upper
91	100		
106	58.4	23.1	83.1
51	17.6	0.0	40.1

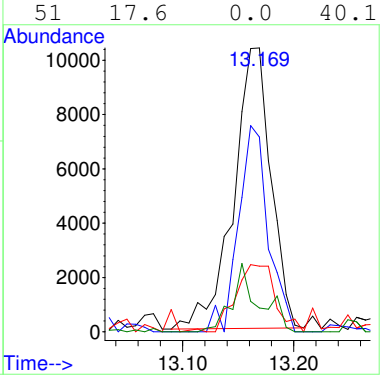


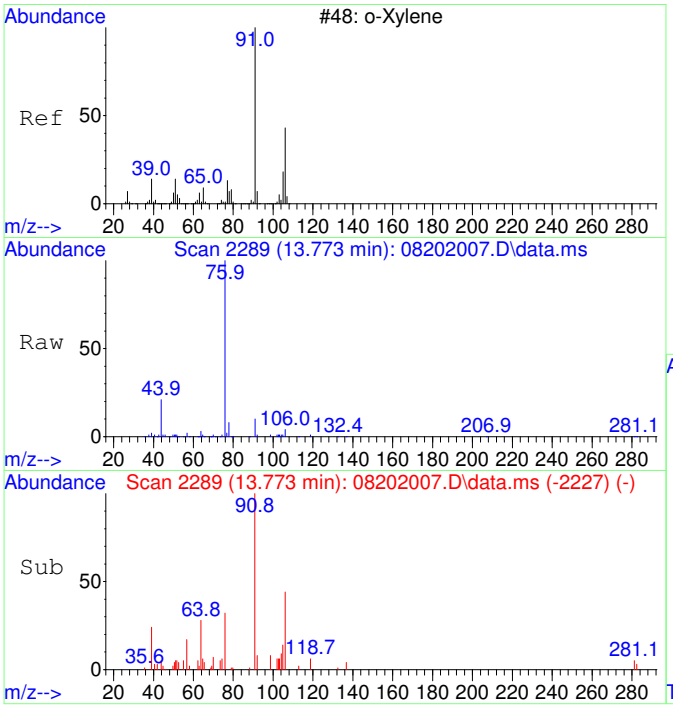


#43
m&p-Xylene SCAN
Concen: 158.20 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 24198

Ion	Ratio	Lower	Upper
91	100		
106	58.4	23.1	83.1
105	25.1	0.0	54.7
51	17.6	0.0	40.1

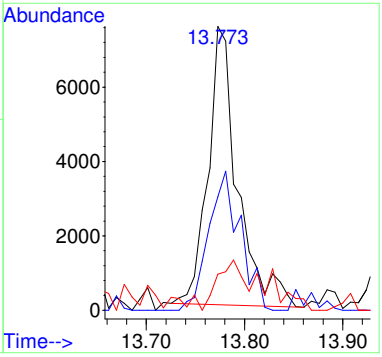


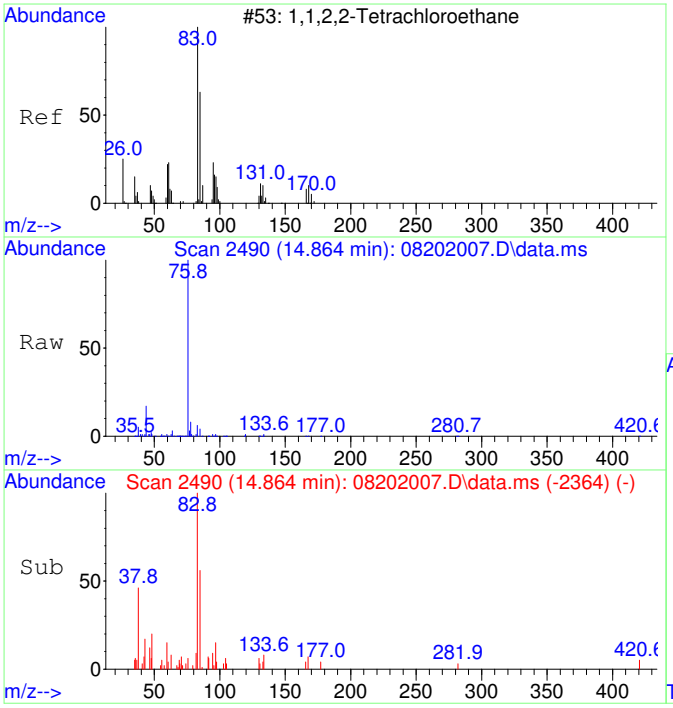


#44
o-Xylene SCAN
Concen: 190.48 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 15595

Ion	Ratio	Lower	Upper
91	100		
106	53.8	18.0	78.0
105	27.5	0.0	56.6

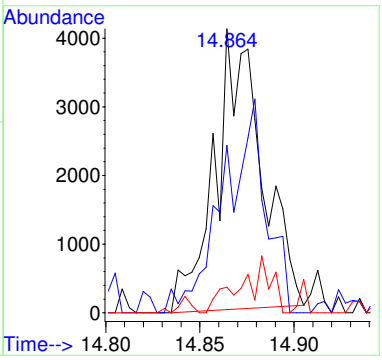


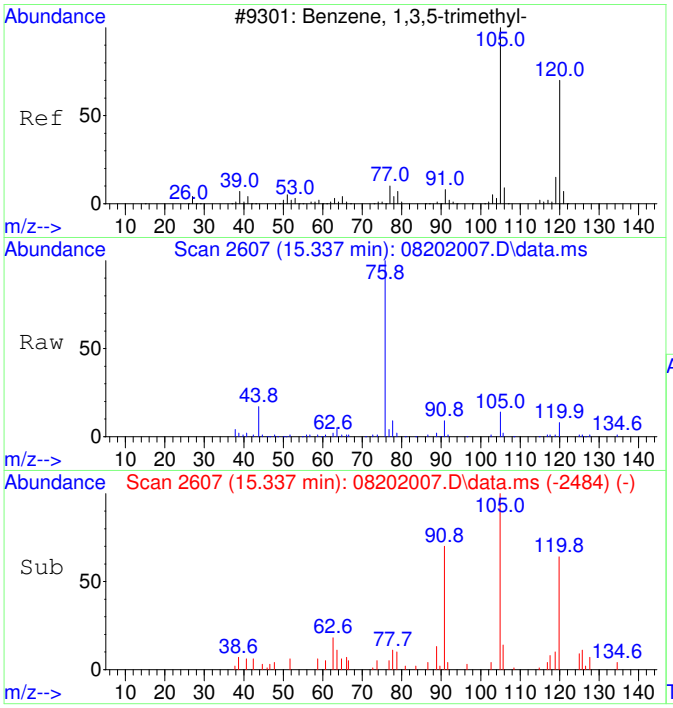


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 177.39 ug/L
RT: 14.864 min Scan# 2490
Delta R.T. -0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 83 Resp: 7082

Ion	Ratio	Lower	Upper
83	100		
85	10.5	35.9	95.9#
95	5.2	0.0	47.4

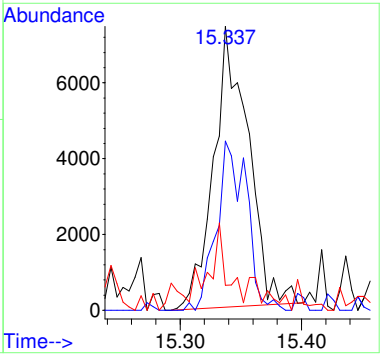


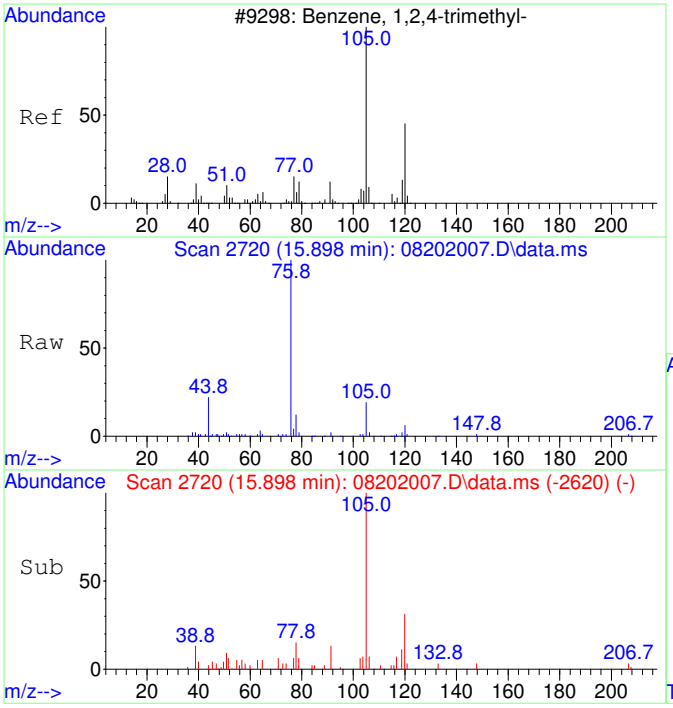


#46
1,3,5-Trimethylbenzene SCAN
Concen: 170.06 ug/L
RT: 15.337 min Scan# 2607
Delta R.T. -0.006 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:105 Resp: 14674

Ion	Ratio	Lower	Upper
105	100		
120	52.5	18.3	78.3
119	12.8	0.0	43.1

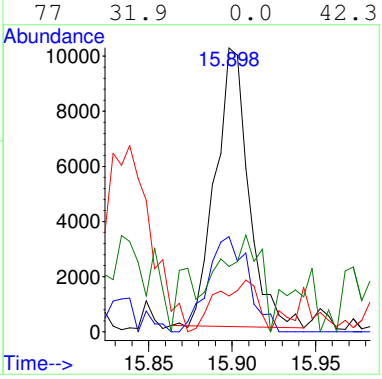


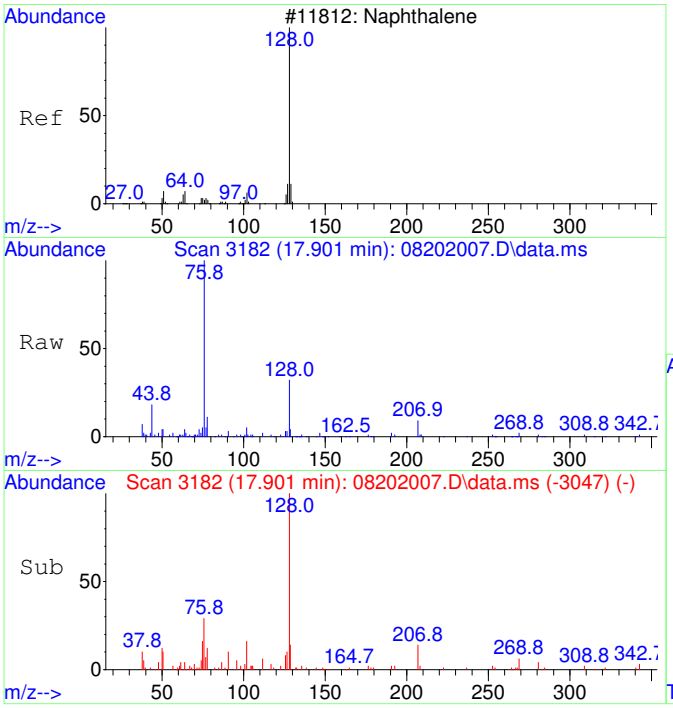


#47
1,2,4-Trimethylbenzene SCAN
Concen: 157.88 ug/L
RT: 15.898 min Scan# 2720
Delta R.T. -0.001 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:105 Resp: 13939

Ion	Ratio	Lower	Upper
105	100		
120	41.8	16.9	76.9
119	22.6	0.0	41.9
77	31.9	0.0	42.3

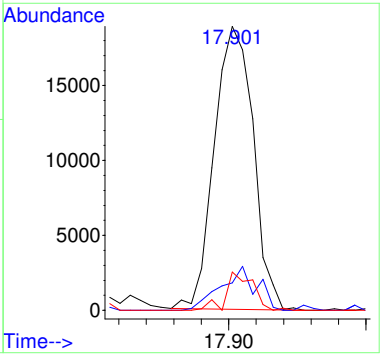




#48
Naphthalene SCAN
Concen: 138.89 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:128 Resp: 18555

Ion	Ratio	Lower	Upper
128	100		
127	14.1	0.0	44.0
129	9.5	0.0	40.8



S20H039-CAL6

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202008.D
Acq On : 20 Aug 2020 17:25
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL6
Misc : 2030073 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 21 08:31:14 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration

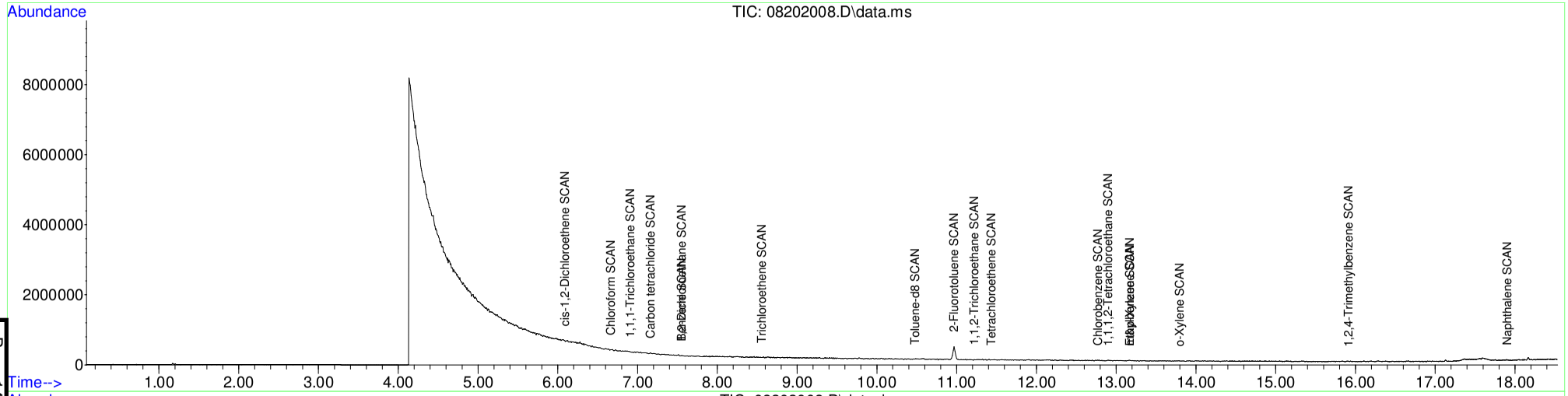
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	604968	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	5849	49.39	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	1509	56.74	ug/L	85
3] trans-1,2-Dichloroethene	4.362	61	1192	42.71	ug/L	71
4] 1,1-Dichloroethane	5.079	63	1475	42.45	ug/L #	20
5] cis-1,2-Dichloroethene	6.081	61	1594	43.46	ug/L	95
6] Chloroform	6.652	83	1606	42.78	ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	1818	44.60	ug/L	97
8] Carbon tetrachloride	7.175	117	1680	43.79	ug/L	90
9] Benzene	7.503	78	3813	37.10	ug/L #	1
10] 1,2-Dichloroethane	7.540	62	1603	43.69	ug/L #	1
11] Trichloroethene	8.569	130	1464	47.31	ug/L	94
13] Toluene	10.571	91	8880	58.81	ug/L	91
14] 1,1,2-Trichloroethane	11.222	97	1632	49.61	ug/L	93
15] Tetrachloroethene	11.432	166	2206	50.49	ug/L	99
16] Chlorobenzene	12.757	112	5616	51.95	ug/L	87
17] 1,1,1,2-Tetrachloroethane	12.908	131	1936	49.98	ug/L	97
18] Ethylbenzene	12.964	91	10080	54.85	ug/L	96
19] m&p-Xylene	13.162	91	16478	114.72	ug/L	94
20] o-Xylene	13.774	91	8511	55.46	ug/L	98
21] 1,1,2,2-Tetrachloroethane	14.873	83	3604	52.99	ug/L	98
22] 1,3,5-Trimethylbenzene	15.340	105	8630	52.84	ug/L	95
23] 1,2,4-Trimethylbenzene	15.896	105	9662	56.95	ug/L	92
24] Naphthalene	17.903	128	14370	53.59	ug/L	98
25) 2-Fluorotoluene SCAN	10.969	109	276390	4686.70	ug/L	97
29) cis-1,2-Dichloroethene...	6.086	61	446	23.21	ug/L #	77
30) Chloroform SCAN	6.662	83	1146	54.98	ug/L #	27
31) 1,1,1-Trichloroethane ...	6.906	97	1606	84.55	ug/L #	25
32) Carbon tetrachloride SCAN	7.161	117	1077	54.36	ug/L #	15
33) Benzene SCAN	7.550	78	16747	320.23	ug/L	92
34) 1,2-Dichloroethane SCAN	7.550	62	733	37.96	ug/L #	26
35) Trichloroethene SCAN	8.557	130	438	30.48	ug/L #	11
36) Toluene-d8 SCAN	10.475	98	3315	57.48	ug/L	99
38) 1,1,2-Trichloroethane ...	11.221	97	839	50.61	ug/L #	13
39) Tetrachloroethene SCAN	11.430	166	1089	61.37	ug/L #	37
40) Chlorobenzene SCAN	12.772	112	2260	44.78	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.891	131	1738	93.05	ug/L #	34
42) Ethylbenzene SCAN	13.169	91	10146	75.40	ug/L	70
43) m&p-Xylene SCAN	13.169	91	10146	75.40	ug/L #	65
44) o-Xylene SCAN	13.797	91	6861	95.26	ug/L #	51
47) 1,2,4-Trimethylbenzene...	15.909	105	4918	63.32	ug/L #	42
48) Naphthalene SCAN	17.901	128	6734	57.30	ug/L	67

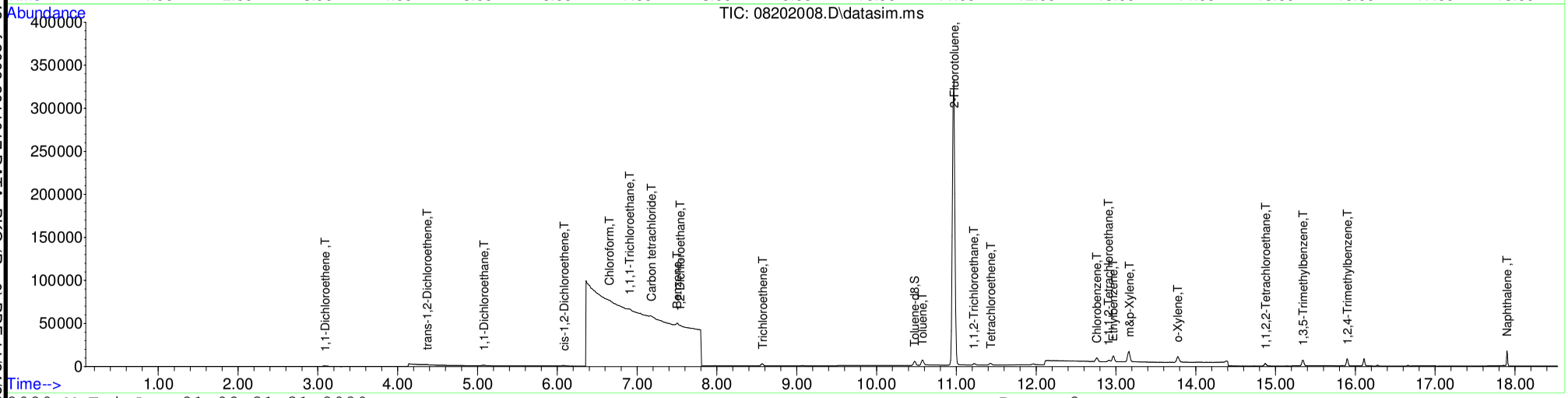
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202008.D
Acq On : 20 Aug 2020 17:25
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL6
Misc : 2030073 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 21 08:31:14 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration





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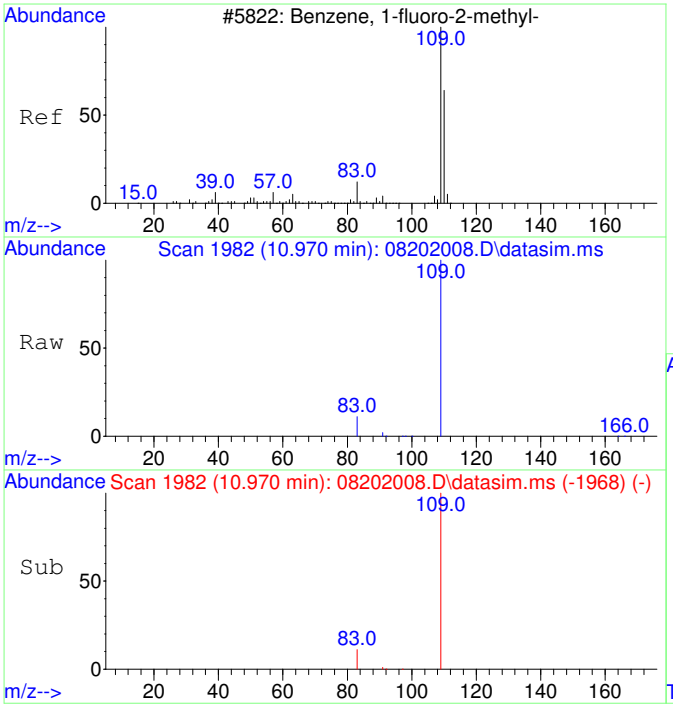
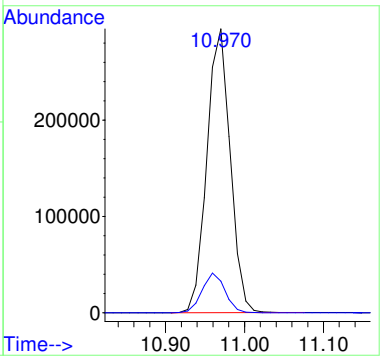
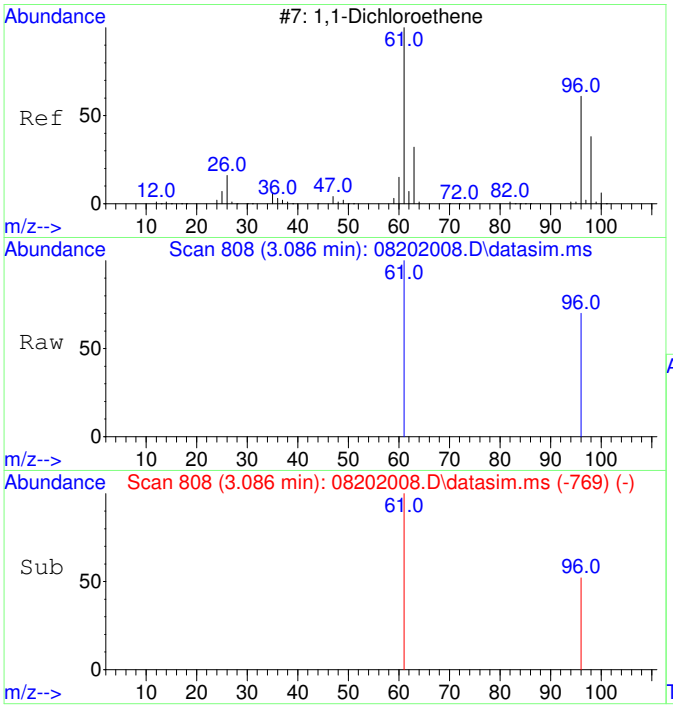


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:109 Resp: 604968

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

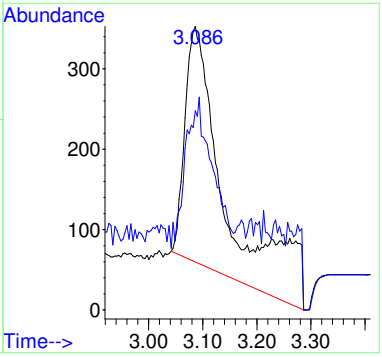




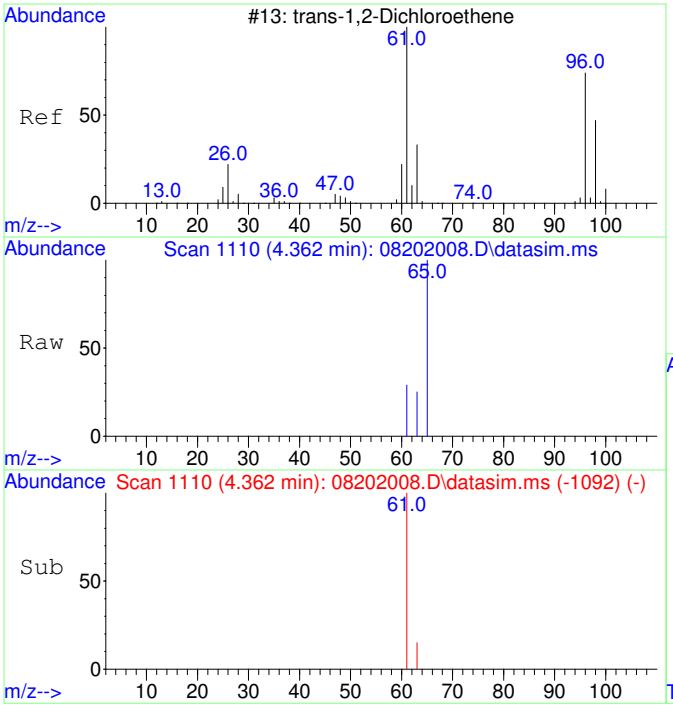
#2
1,1-Dichloroethene
Concen: 56.74 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.004 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 61 Resp: 1509

Ion	Ratio	Lower	Upper
61	100		
96	55.2	37.2	97.2



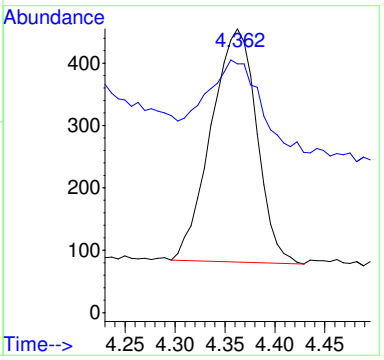
Before MI:
IMPROPER
BASELINE

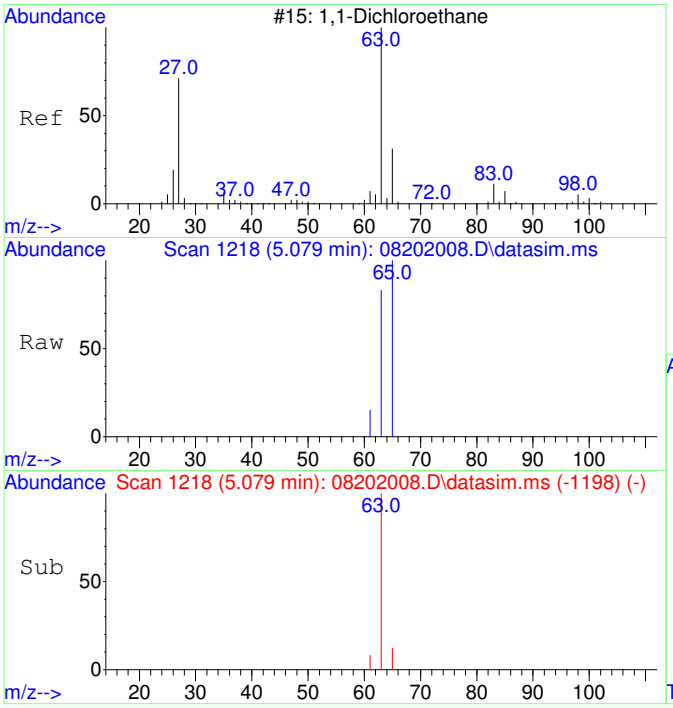


#3
trans-1,2-Dichloroethene
Concen: 42.71 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. -0.033 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 61 Resp: 1192

Ion	Ratio	Lower	Upper
61	100		
63	48.7	2.4	62.4

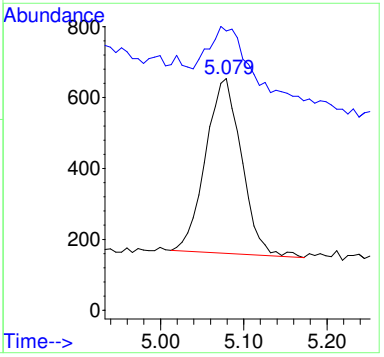


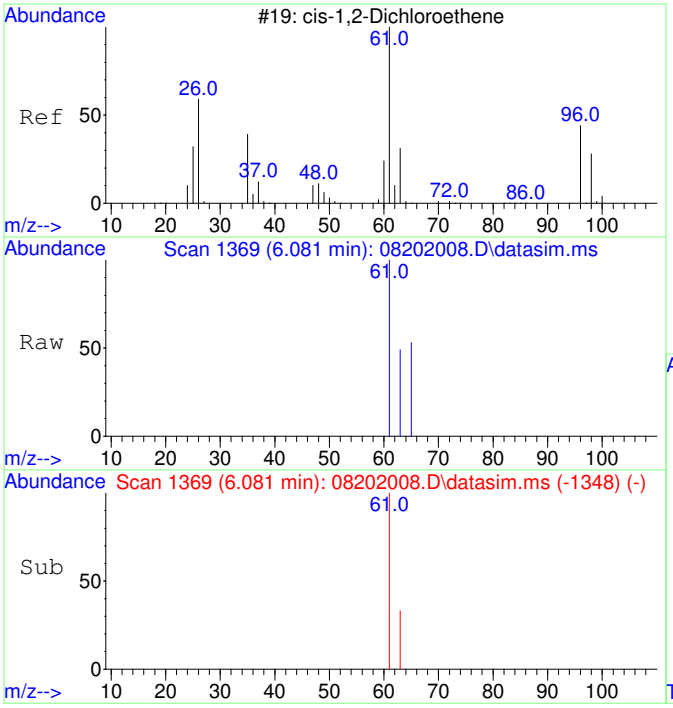


#4
1,1-Dichloroethane
Concen: 42.45 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 63 Resp: 1475

Ion	Ratio	Lower	Upper
63	100		
65	76.1	1.8	61.8#

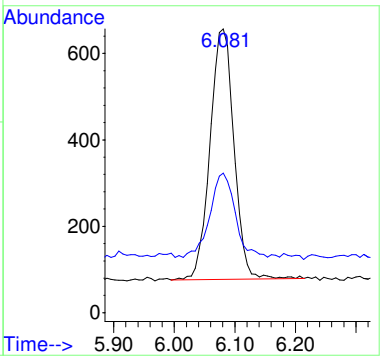


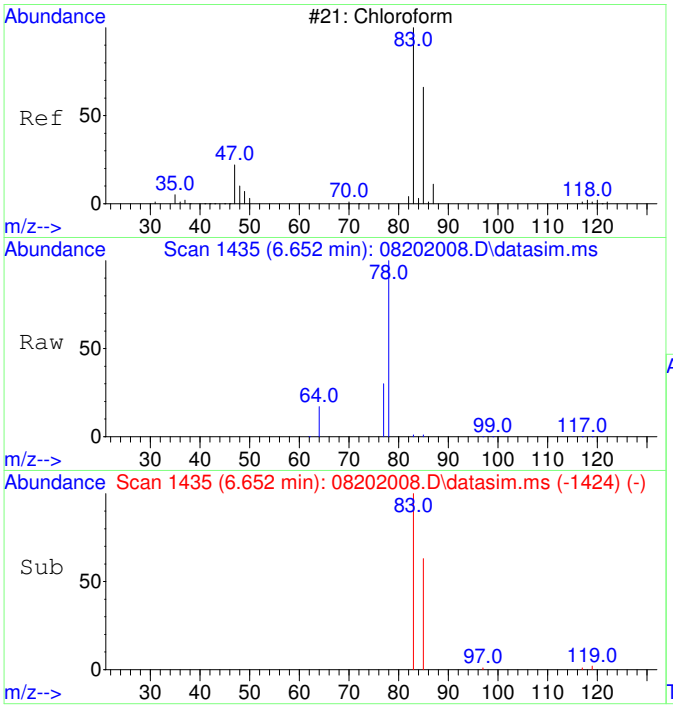


#5
cis-1,2-Dichloroethene
Concen: 43.46 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 61 Resp: 1594

Ion	Ratio	Lower	Upper
61	100		
63	35.1	2.5	62.5

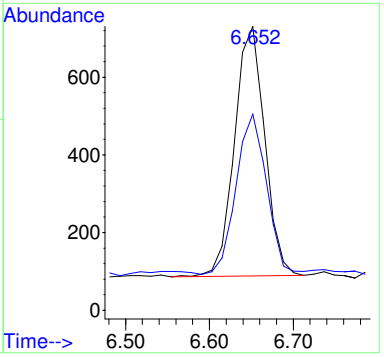


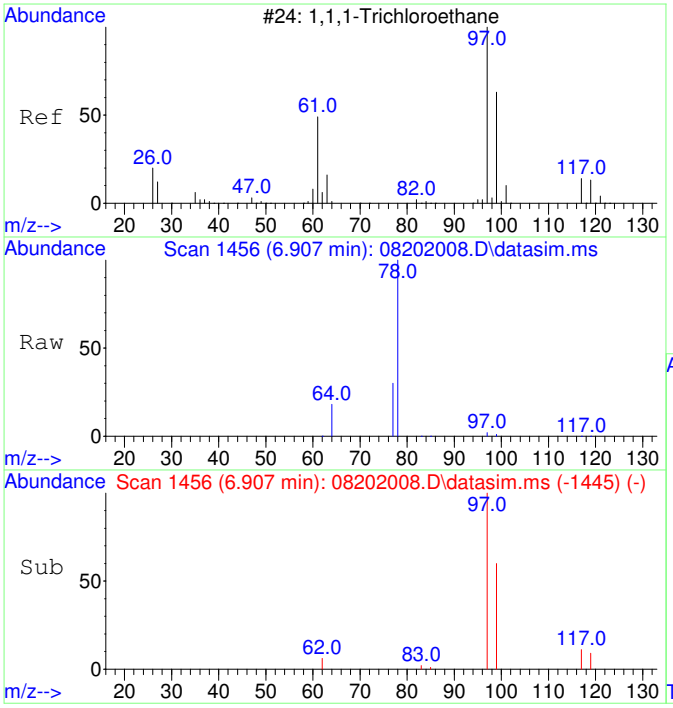


#6
Chloroform
Concen: 42.78 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 83 Resp: 1606

Ion	Ratio	Lower	Upper
83	100		
85	64.9	35.1	95.1

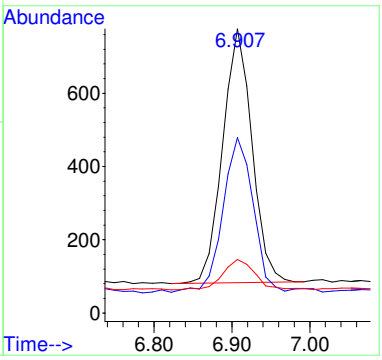


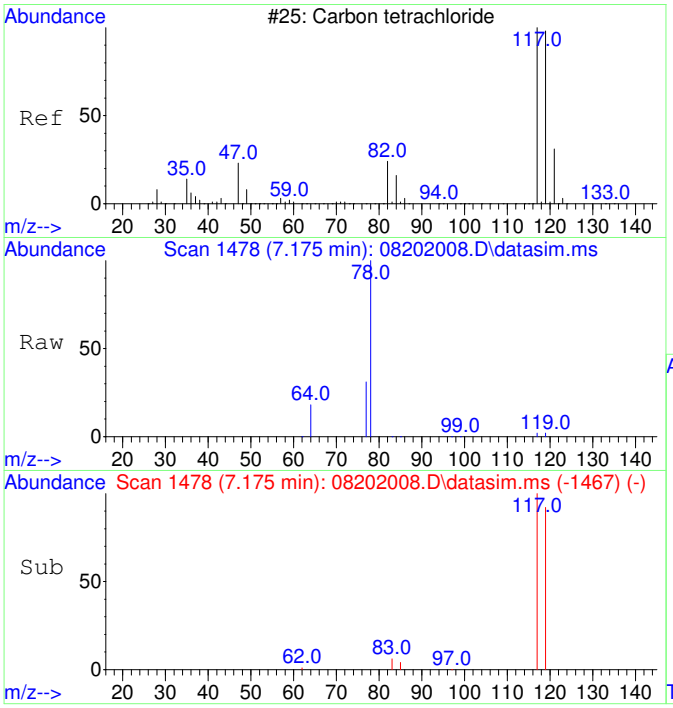


#7
1,1,1-Trichloroethane
Concen: 44.60 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 97 Resp: 1818

Ion	Ratio	Lower	Upper
97	100		
99	61.9	34.6	94.6
117	13.4	0.0	43.2

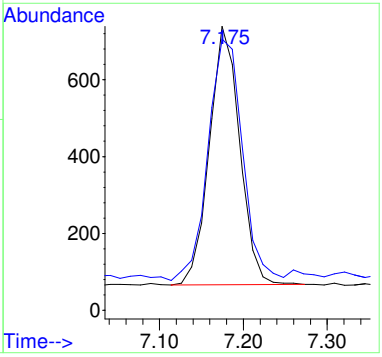


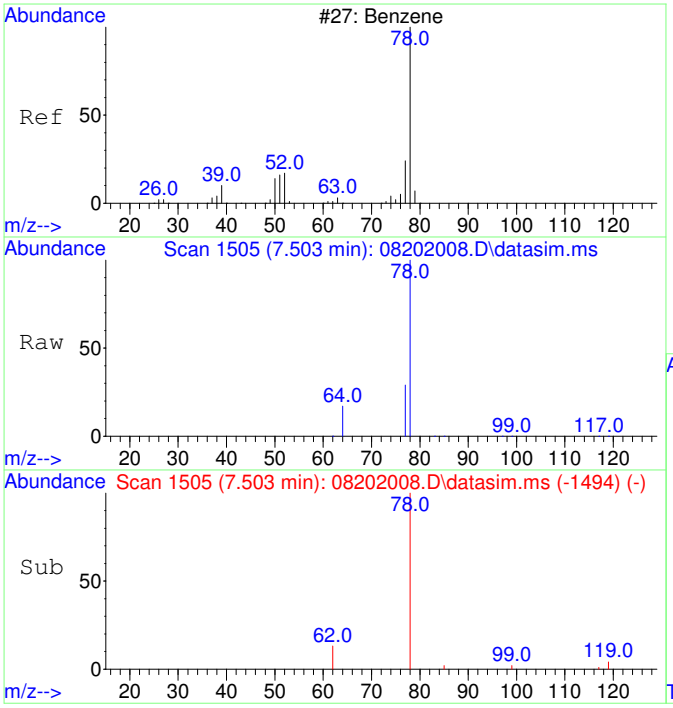


#8
Carbon tetrachloride
Concen: 43.79 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:117 Resp: 1680

Ion	Ratio	Lower	Upper
117	100		
119	105.9	66.4	126.4

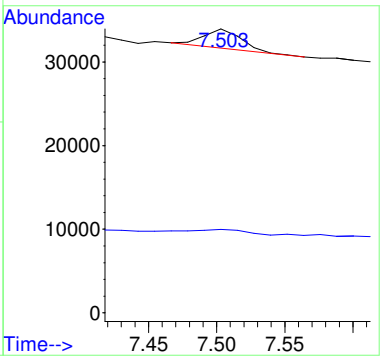


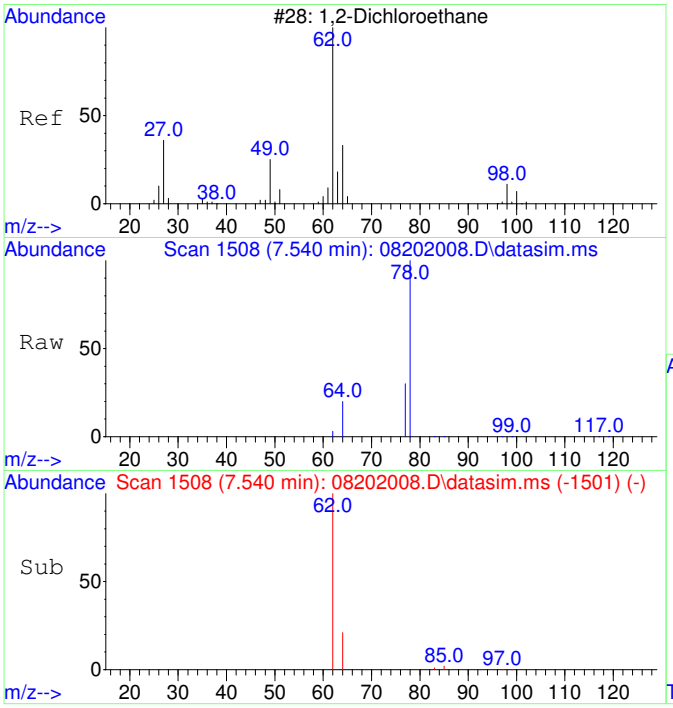


#9
Benzene
Concen: 37.10 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 78 Resp: 3813

Ion	Ratio	Lower	Upper
78	100		
77	99.1	0.0	53.2#

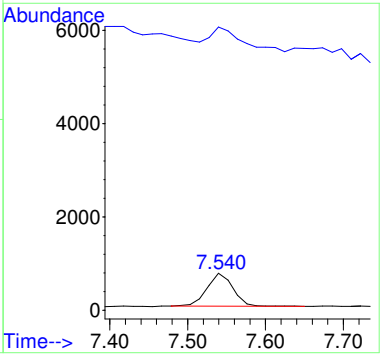


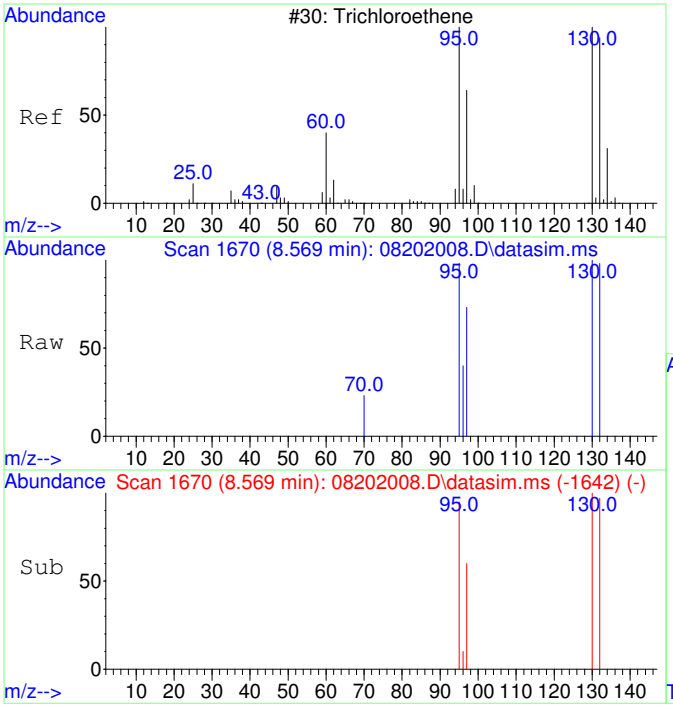


#10
1,2-Dichloroethane
Concen: 43.69 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 62 Resp: 1603

Ion	Ratio	Lower	Upper
62	100		
64	90.9	2.3	62.3#

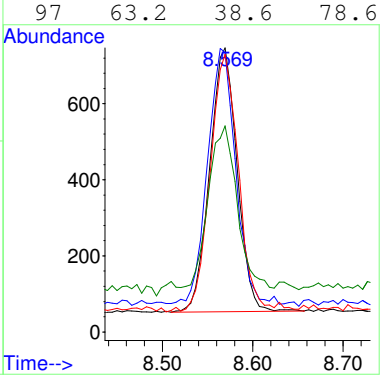


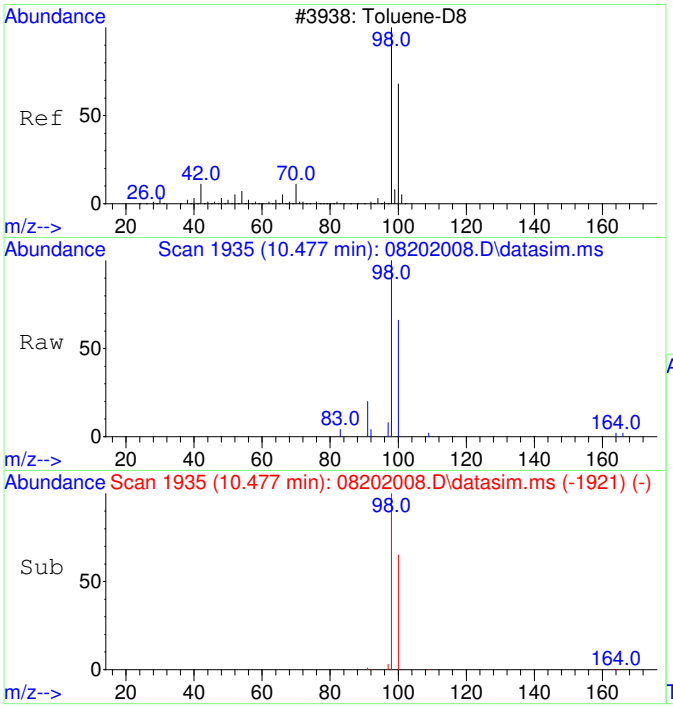


#11
Trichloroethene
Concen: 47.31 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:130 Resp: 1464

Ion	Ratio	Lower	Upper
130	100		
95	98.6	60.7	120.7
132	100.6	76.0	116.0
97	63.2	38.6	78.6

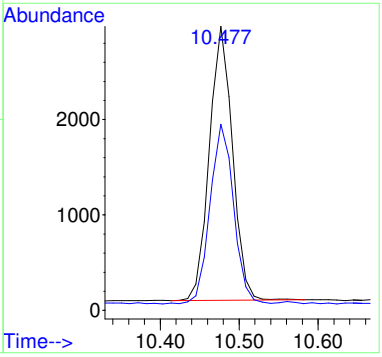


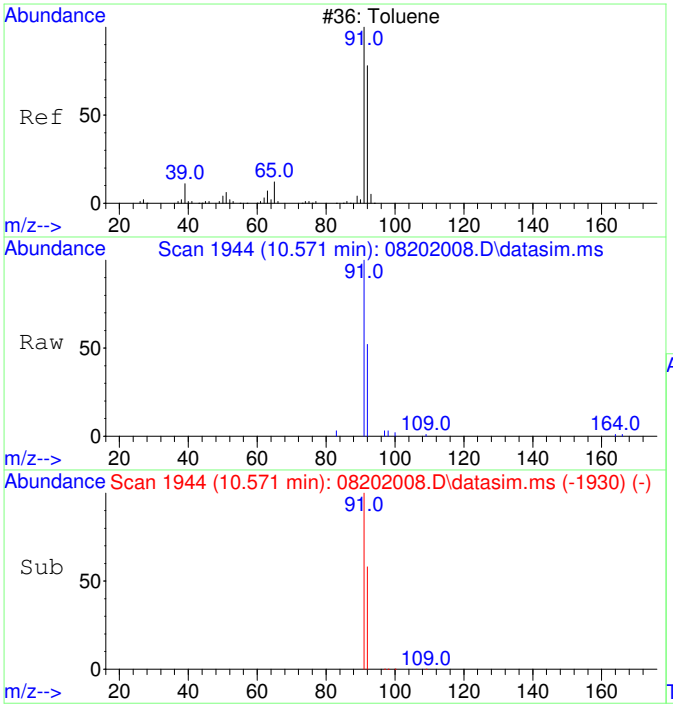


#12
Toluene-d8
Concen: 49.39 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 98 Resp: 5849

Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1

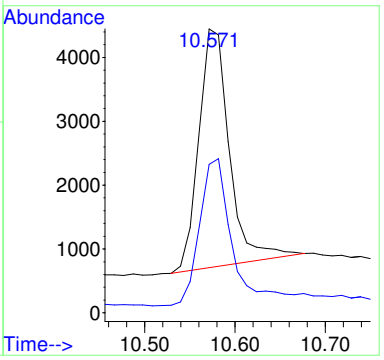


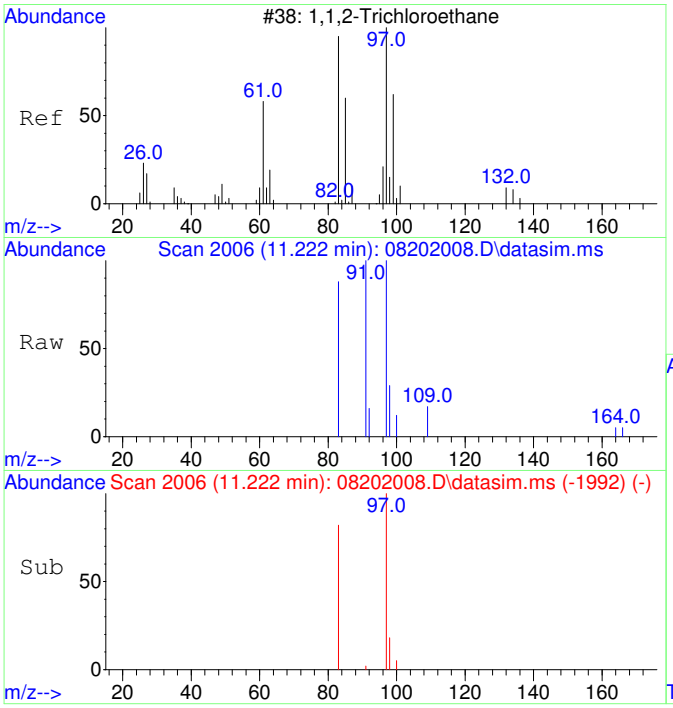


#13
Toluene
Concen: 58.81 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 8880

Ion	Ratio	Lower	Upper
91	100		
92	66.5	29.9	89.9

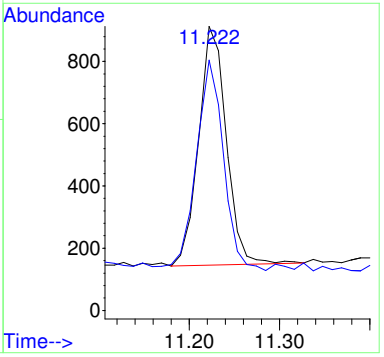


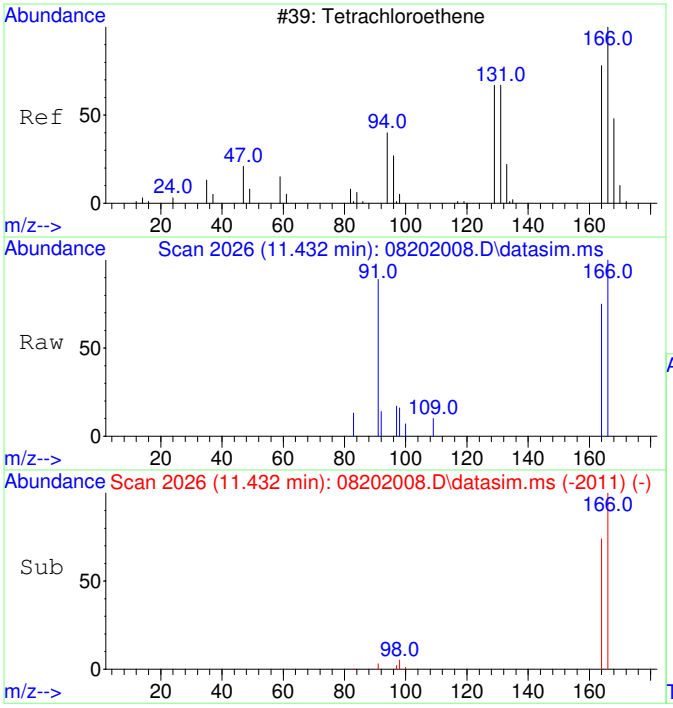


#14
1,1,2-Trichloroethane
Concen: 49.61 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 97 Resp: 1632

Ion	Ratio	Lower	Upper
97	100		
83	87.4	51.2	111.2

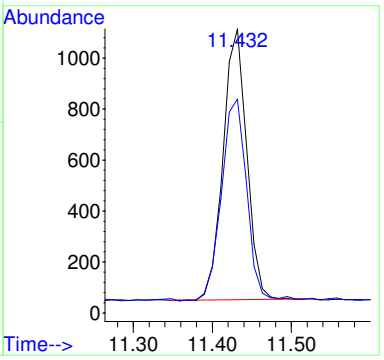


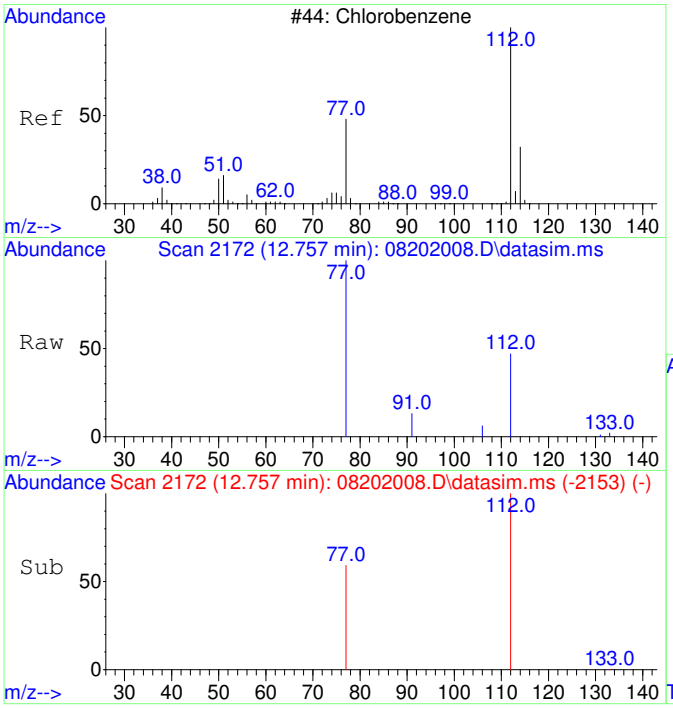


#15
Tetrachloroethene
Concen: 50.49 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:166 Resp: 2206

Ion	Ratio	Lower	Upper
166	100		
164	78.9	47.8	107.8

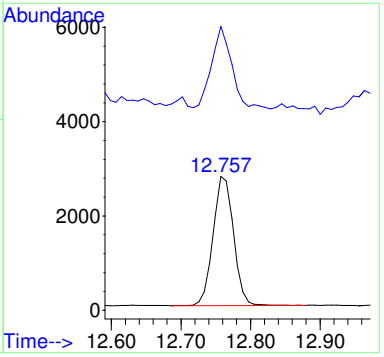


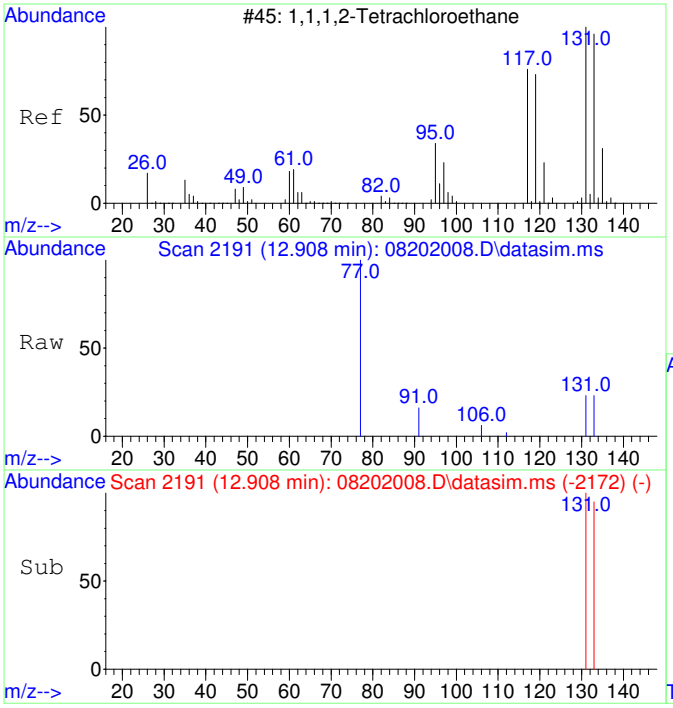


#16
Chlorobenzene
Concen: 51.95 ug/L
RT: 12.757 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:112 Resp: 5616

Ion	Ratio	Lower	Upper
112	100		
77	63.2	23.6	83.6

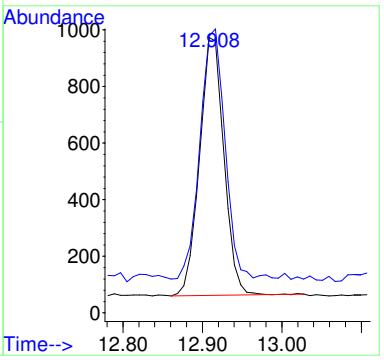


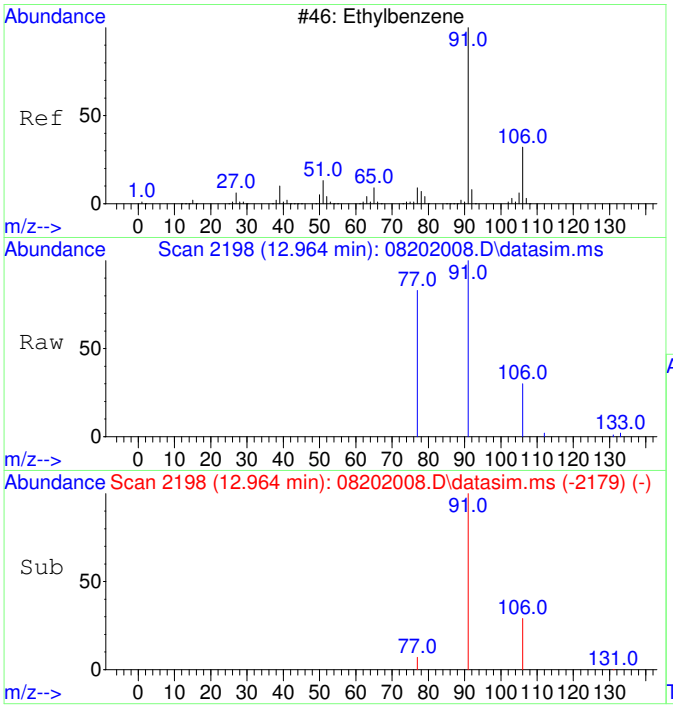


#17
1,1,1,2-Tetrachloroethane
Concen: 49.98 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:131 Resp: 1936

Ion	Ratio	Lower	Upper
131	100		
133	99.2	66.3	126.3

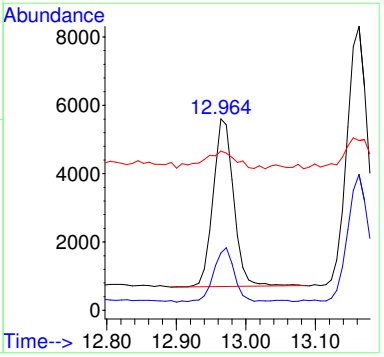


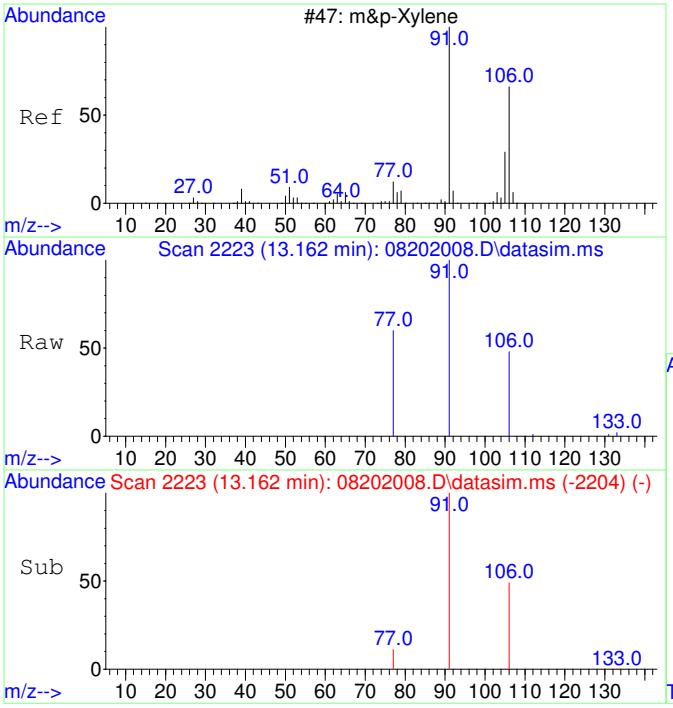


#18
Ethylbenzene
Concen: 54.85 ug/L
RT: 12.964 min Scan# 2198
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 10080

Ion	Ratio	Lower	Upper
91	100		
106	32.7	3.0	63.0
77	15.3	0.0	38.2

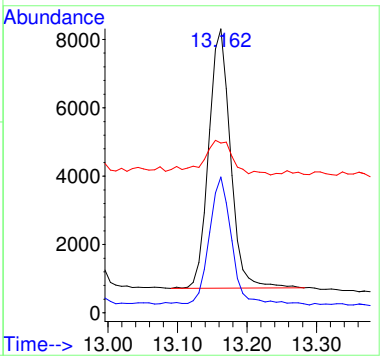


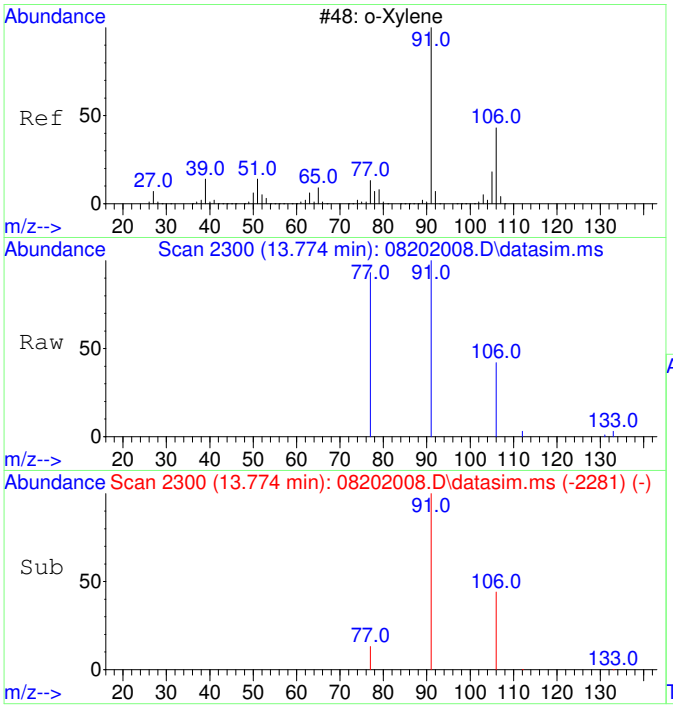


#19
m&p-Xylene
Concen: 114.72 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 16478

Ion	Ratio	Lower	Upper
91	100		
106	48.8	22.2	82.2
77	17.4	0.0	42.4

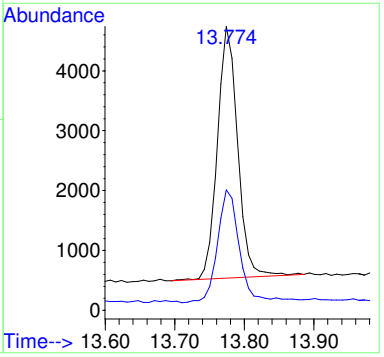


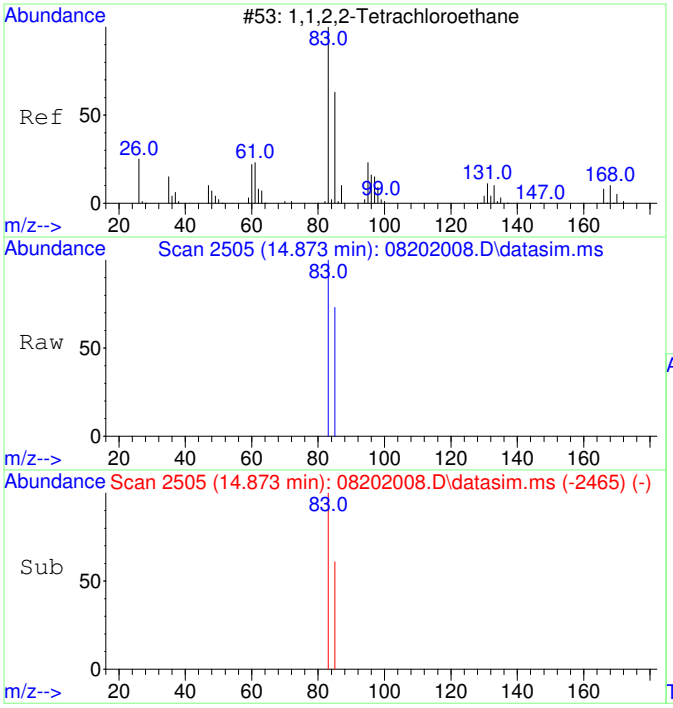


#20
o-Xylene
Concen: 55.46 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 8511

Ion	Ratio	Lower	Upper
91	100		
106	47.6	19.2	79.2

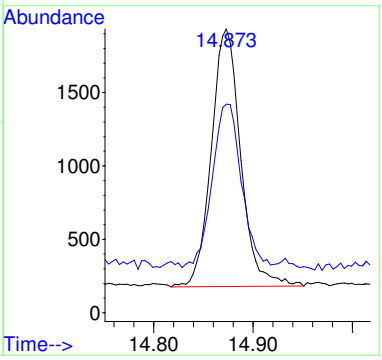


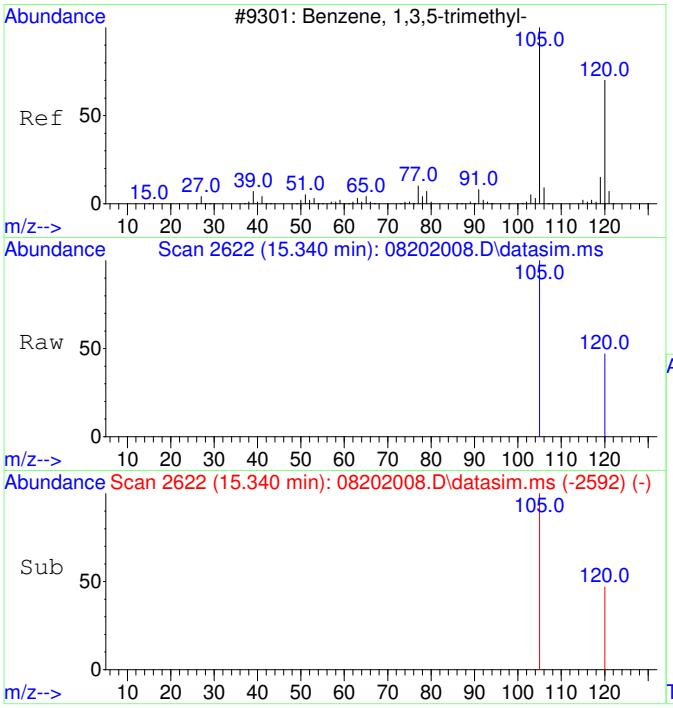


#21
1,1,2,2-Tetrachloroethane
Concen: 52.99 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 83 Resp: 3604

Ion	Ratio	Lower	Upper
83	100		
85	63.3	34.8	94.8

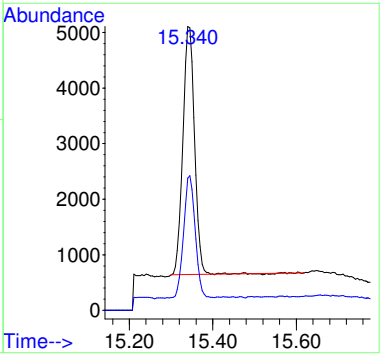


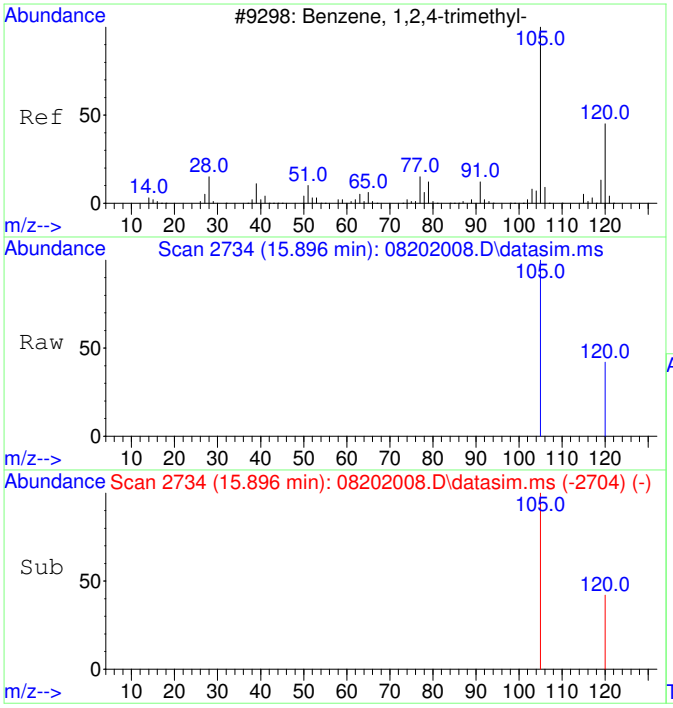


#22
1,3,5-Trimethylbenzene
Concen: 52.84 ug/L
RT: 15.340 min Scan# 2622
Delta R.T. -0.005 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:105 Resp: 8630

Ion	Ratio	Lower	Upper
105	100		
120	47.6	21.1	81.1

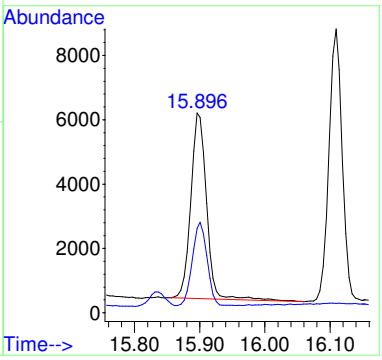


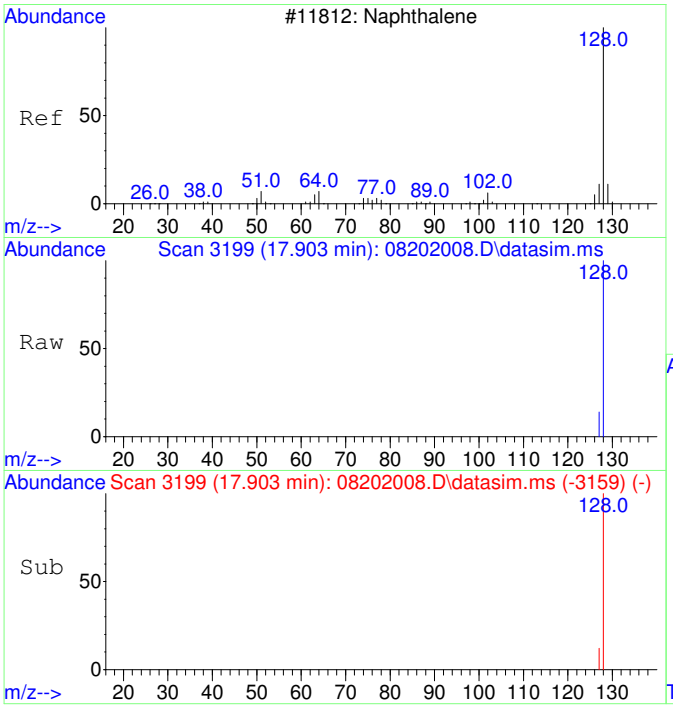


#23
1,2,4-Trimethylbenzene
Concen: 56.95 ug/L
RT: 15.896 min Scan# 2734
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:105 Resp: 9662

Ion	Ratio	Lower	Upper
105	100		
120	41.8	17.2	77.2

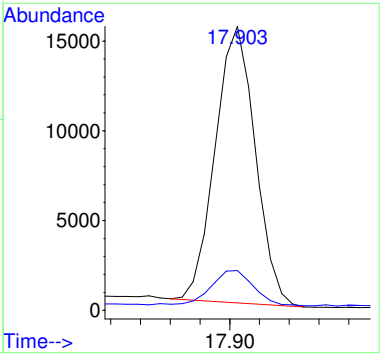


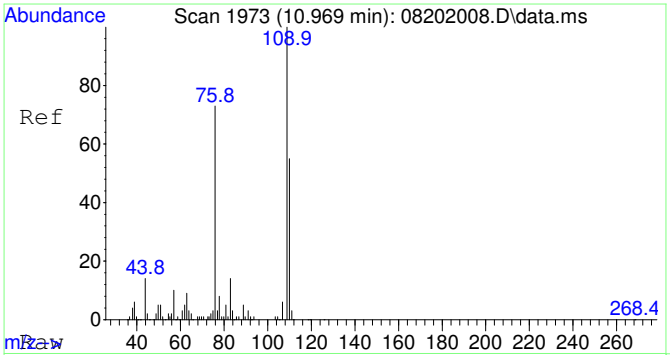


#24
Naphthalene
Concen: 53.59 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:128 Resp: 14370

Ion	Ratio	Lower	Upper
128	100		
127	13.4	0.0	42.5

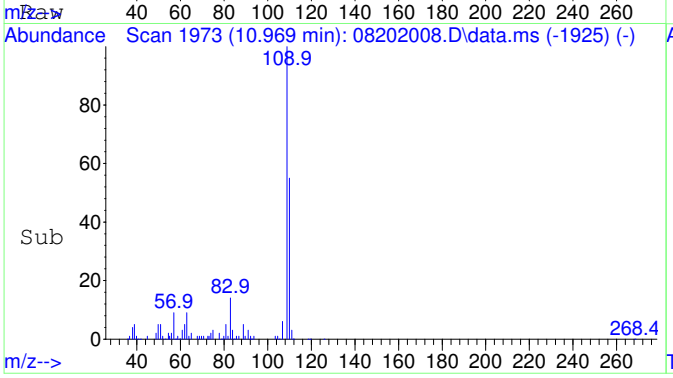


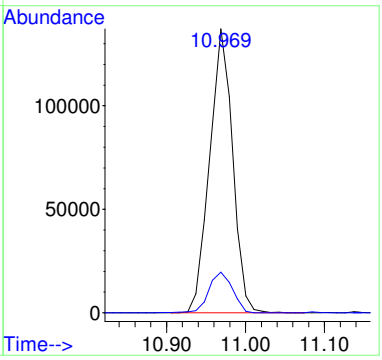


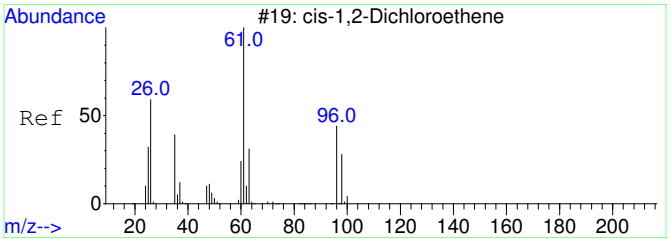
#25
2-Fluorotoluene SCAN
Concen: 4686.70 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:109 Resp: 276390

Ion	Ratio	Lower	Upper
109	100		
83	14.8	0.0	43.8



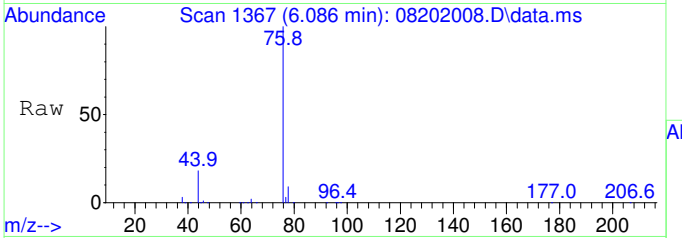


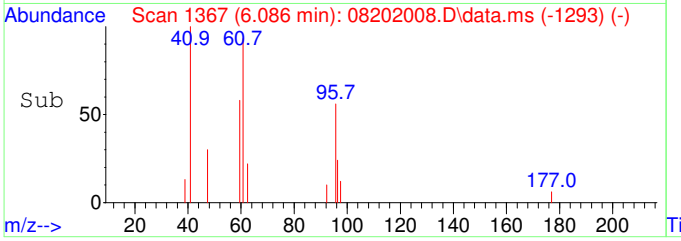


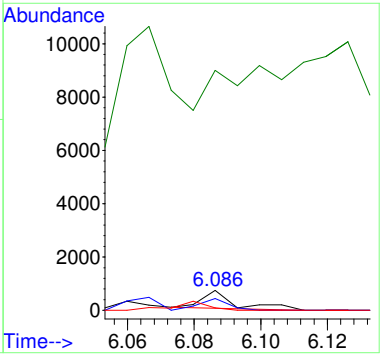
#29
cis-1,2-Dichloroethene SCAN
Concen: 23.21 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

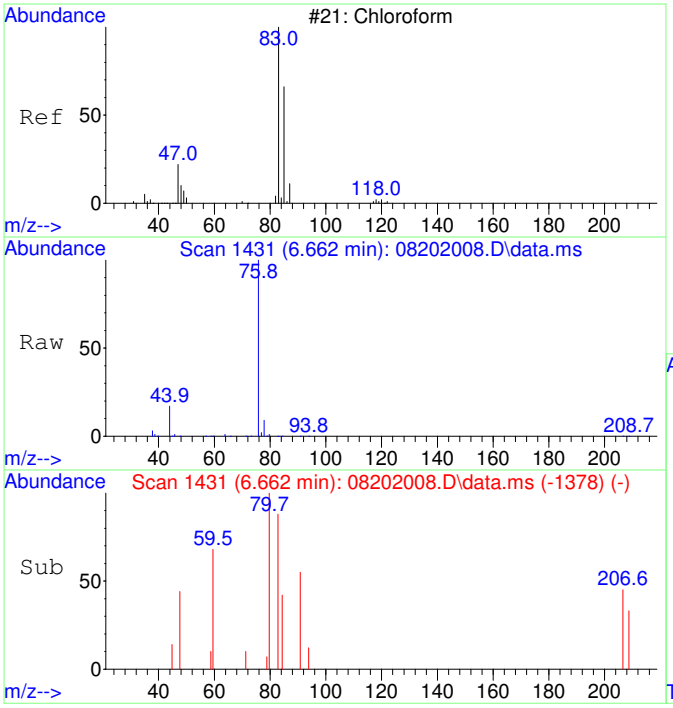
Tgt Ion: 61 Resp: 446

Ion	Ratio	Lower	Upper
61	100		
96	63.0	39.9	99.9
98	55.2	13.5	73.5
64	0.0	4.5	64.5#





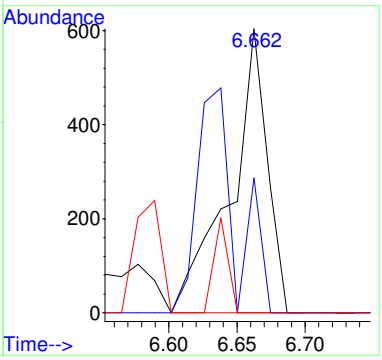


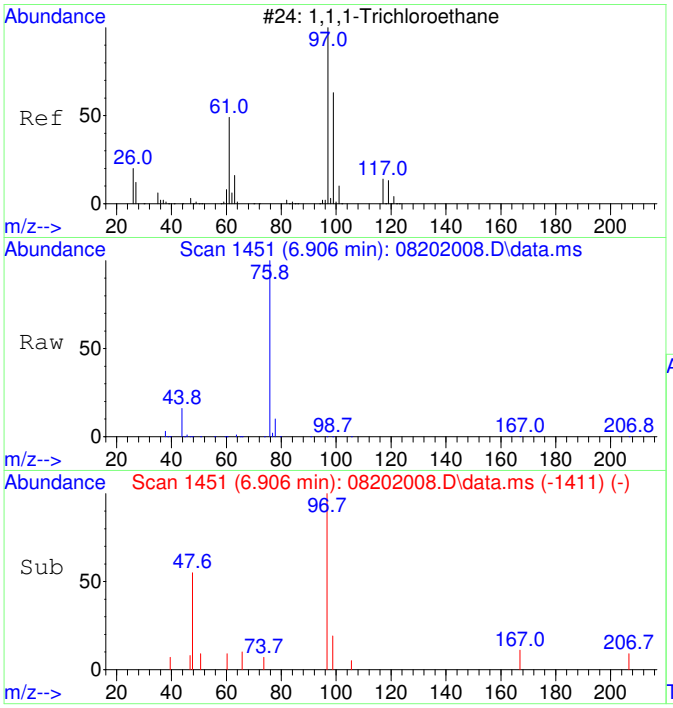


#30
Chloroform SCAN
Concen: 54.98 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 83 Resp: 1146

Ion	Ratio	Lower	Upper
83	100		
85	0.0	34.6	94.6#
47	0.0	0.0	53.4

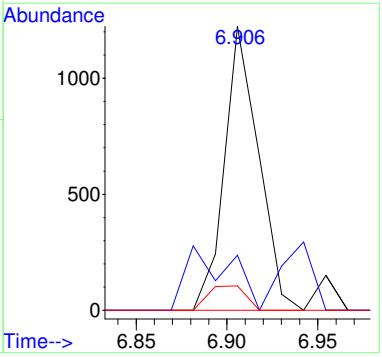


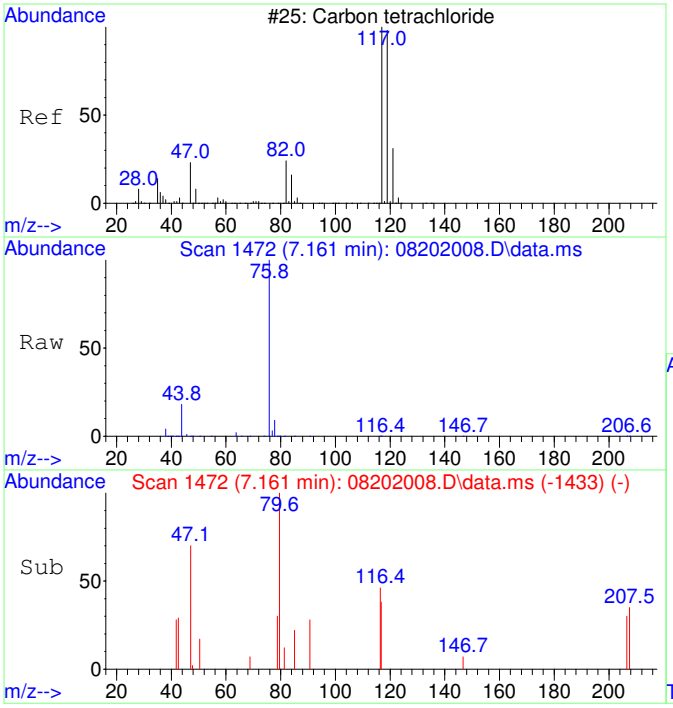


#31
1,1,1-Trichloroethane SCAN
Concen: 84.55 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 97 Resp: 1606

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	9.5	18.0	78.0#

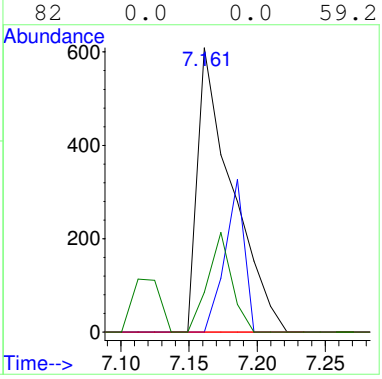


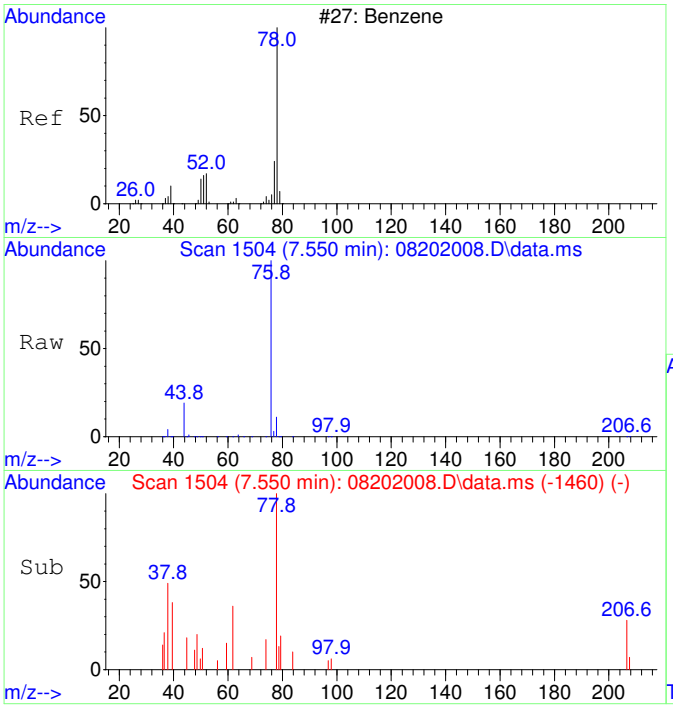


#32
Carbon tetrachloride SCAN
Concen: 54.36 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.024 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:117 Resp: 1077

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

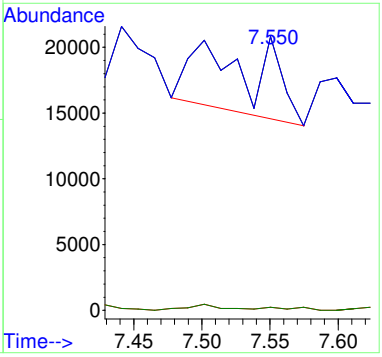


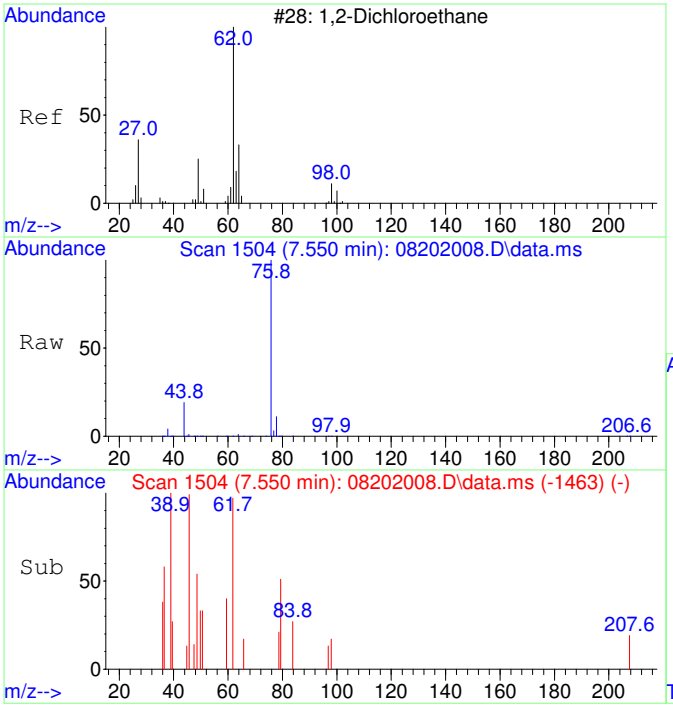


#33
Benzene SCAN
Concen: 320.23 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.037 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 78 Resp: 16747

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.6	0.0	47.9
51	1.6	0.0	44.1

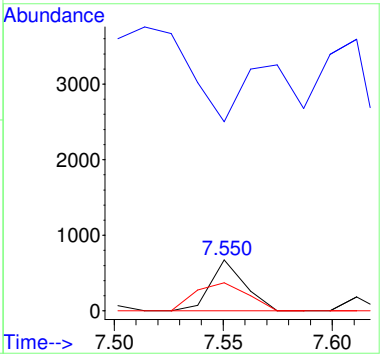


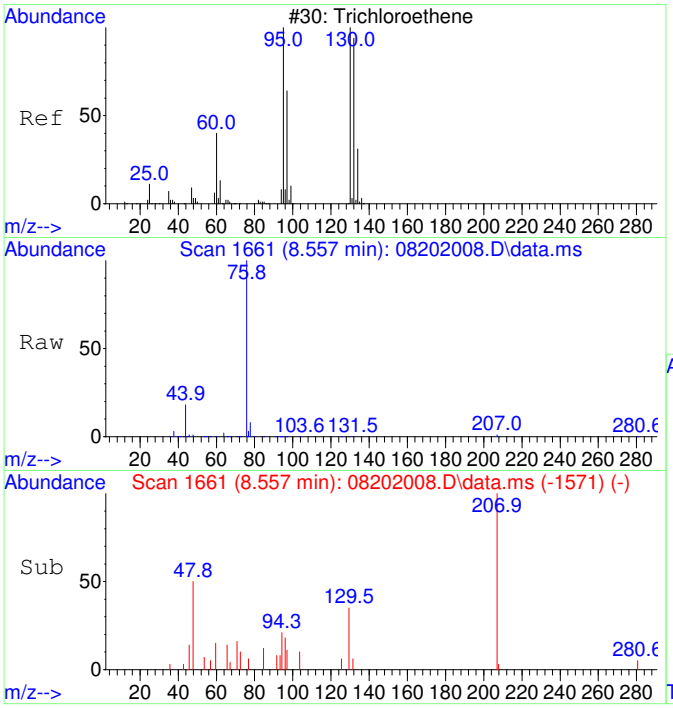


#34
1,2-Dichloroethane SCAN
Concen: 37.96 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 62 Resp: 733

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	84.6	3.9	63.9#

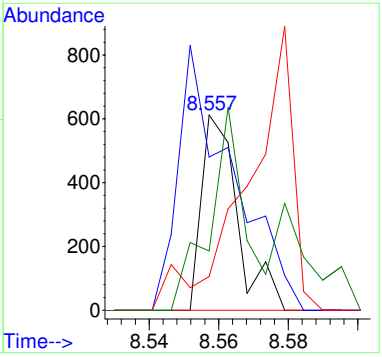


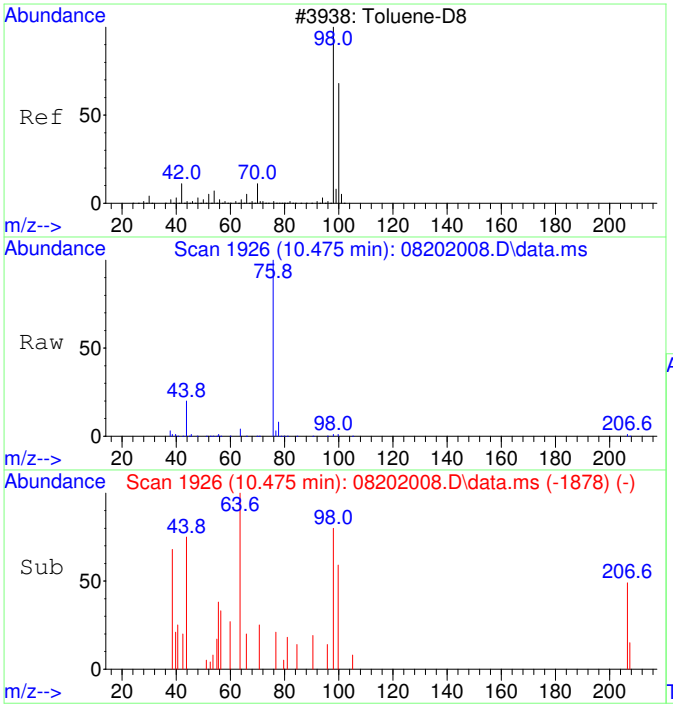


#35
Trichloroethene SCAN
Concen: 30.48 ug/L
RT: 8.557 min Scan# 1661
Delta R.T. -0.011 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:130 Resp: 438

Ion	Ratio	Lower	Upper
130	100		
95	204.1	60.5	120.5#
132	0.0	59.6	119.6#
97	81.1	28.2	88.2

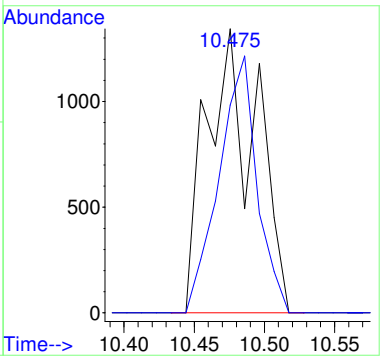


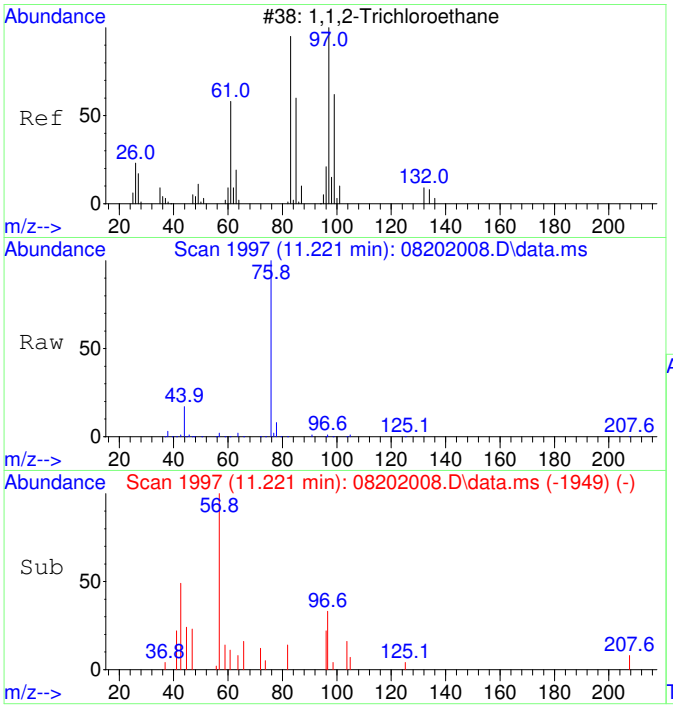


#36
Toluene-d8 SCAN
Concen: 57.48 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 98 Resp: 3315

Ion	Ratio	Lower	Upper
98	100		
100	69.2	40.0	100.0

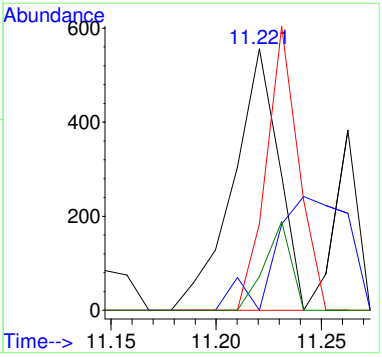


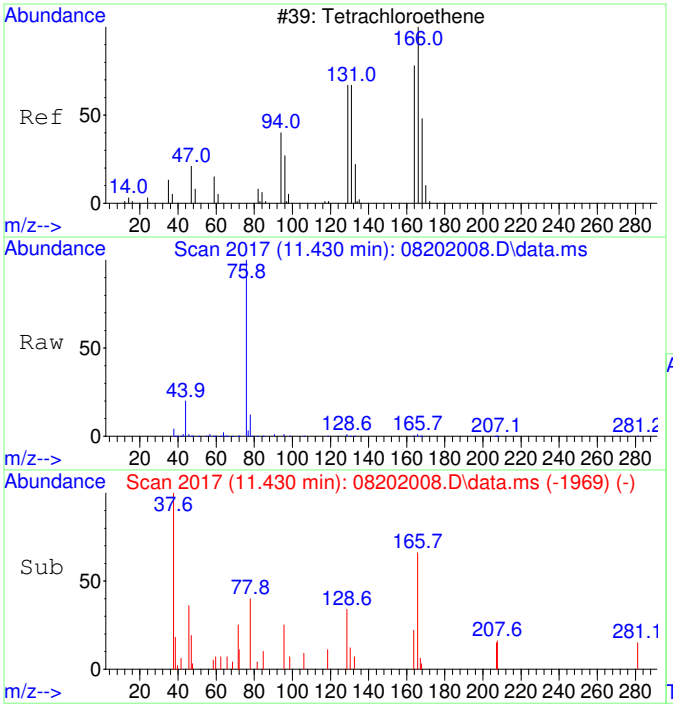


#38
1,1,2-Trichloroethane SCAN
Concen: 50.61 ug/L
RT: 11.221 min Scan# 1997
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 97 Resp: 839

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

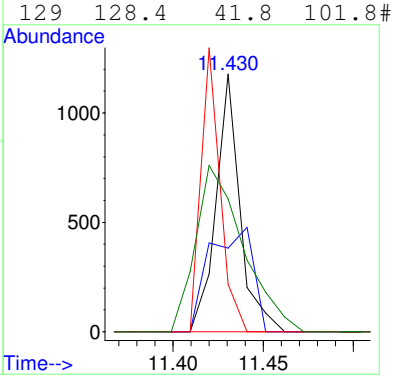


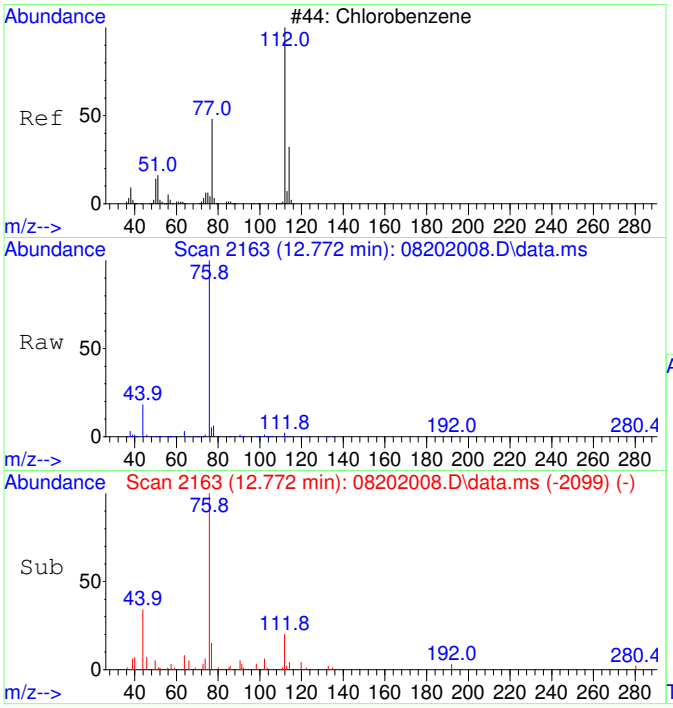


#39
Tetrachloroethene SCAN
Concen: 61.37 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:166 Resp: 1089

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	87.6	38.7	98.7
129	128.4	41.8	101.8#

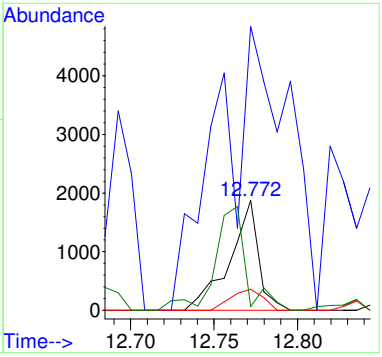


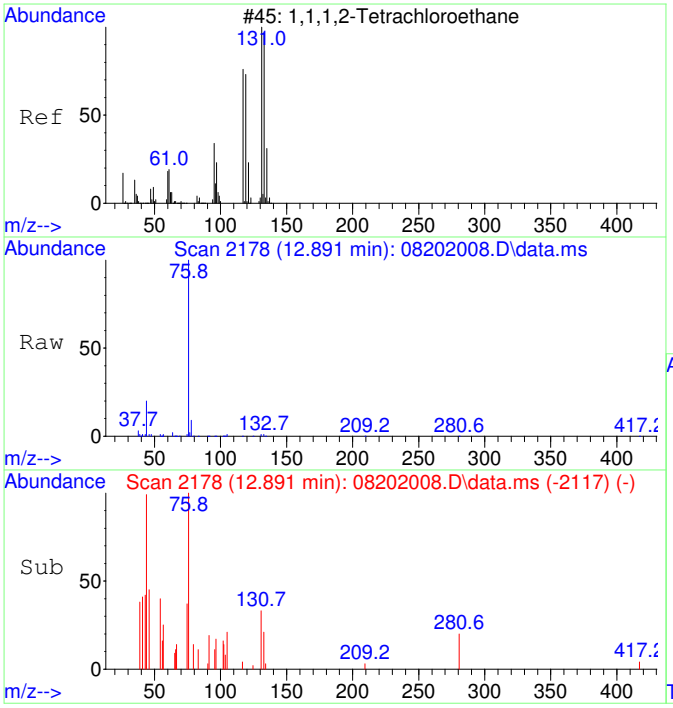


#40
Chlorobenzene SCAN
Concen: 44.78 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:112 Resp: 2260

Ion	Ratio	Lower	Upper
112	100		
77	292.5	28.2	88.2#
114	21.3	2.3	62.3
51	101.9	0.0	50.1#

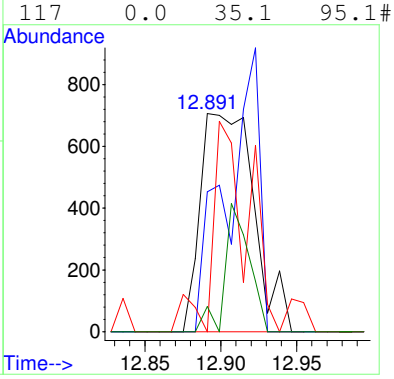


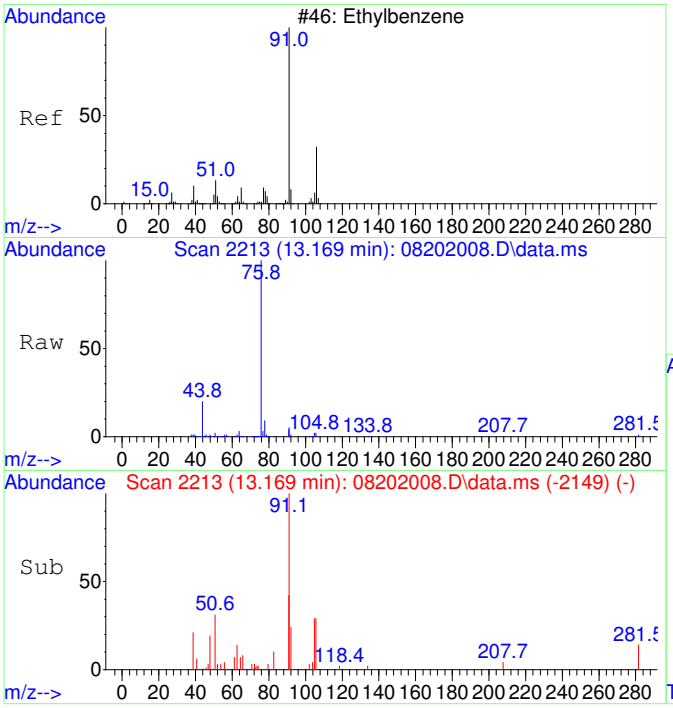


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 93.05 ug/L
RT: 12.891 min Scan# 2178
Delta R.T. -0.016 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:131 Resp: 1738

Ion	Ratio	Lower	Upper
131	100		
133	0.0	66.9	126.9#
119	64.3	40.4	100.4
117	0.0	35.1	95.1#

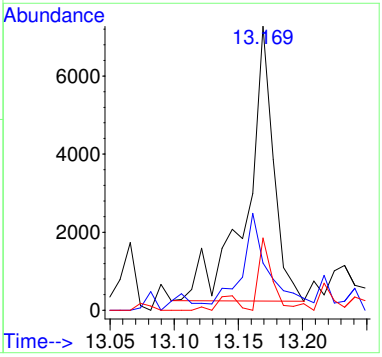


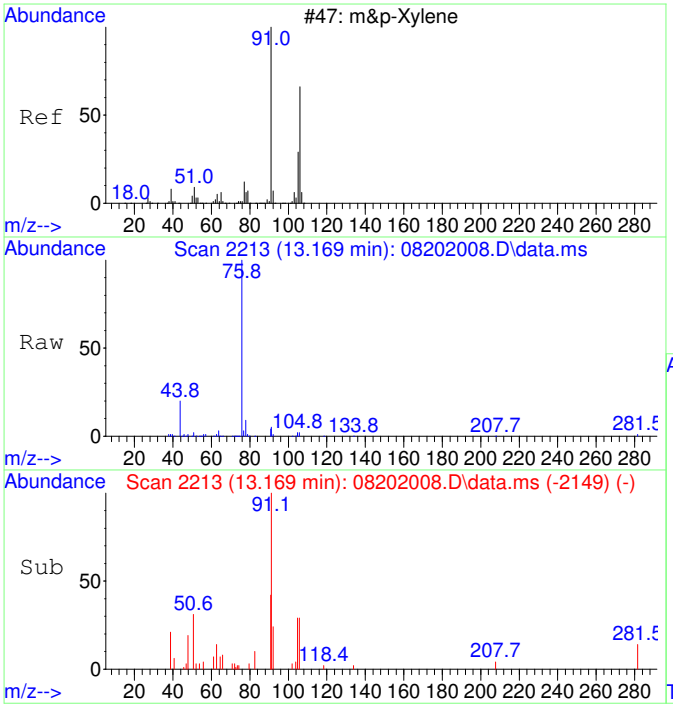


#42
Ethylbenzene SCAN
Concen: 75.40 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 10146

Ion	Ratio	Lower	Upper
91	100		
106	28.8	23.1	83.1
51	12.0	0.0	40.1

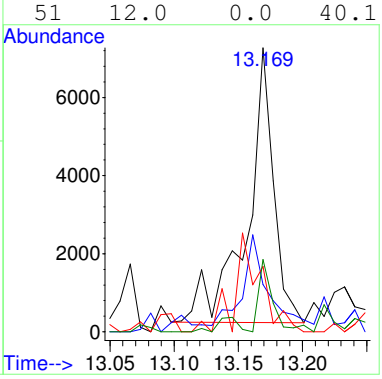


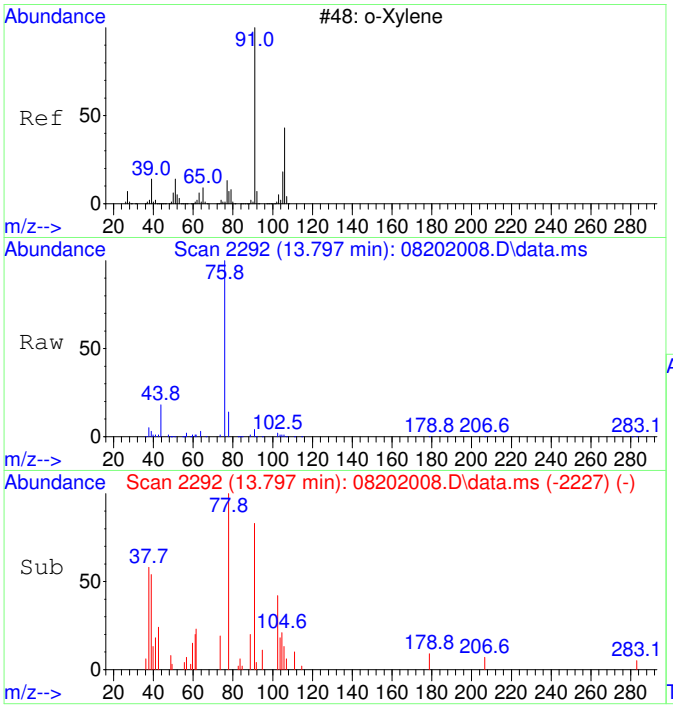


#43
m&p-Xylene SCAN
Concen: 75.40 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 10146

Ion	Ratio	Lower	Upper
91	100		
106	28.8	23.1	83.1
105	0.0	0.0	54.7
51	12.0	0.0	40.1

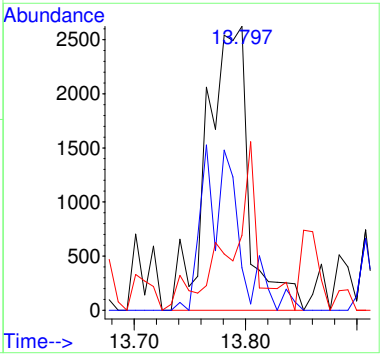


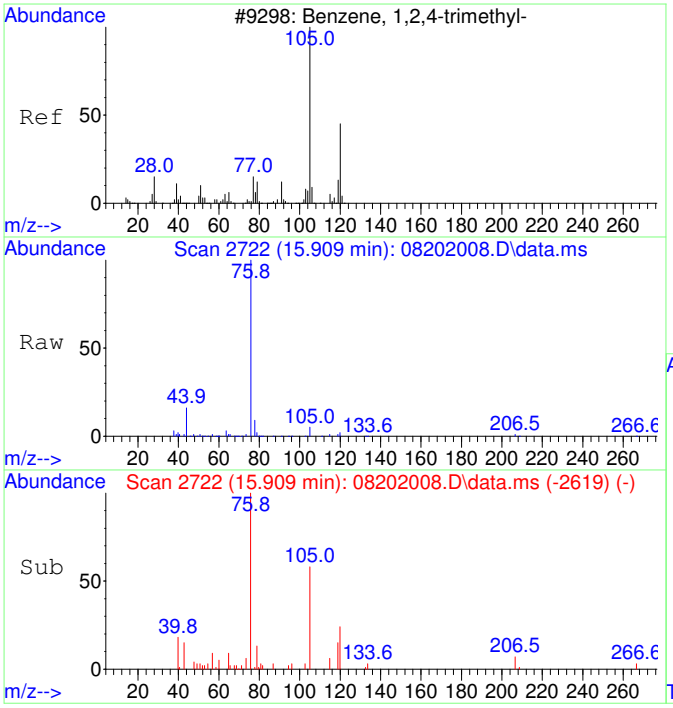


#44
o-Xylene SCAN
Concen: 95.26 ug/L
RT: 13.797 min Scan# 2292
Delta R.T. 0.016 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 6861

Ion	Ratio	Lower	Upper
91	100		
106	0.0	18.0	78.0#
105	21.3	0.0	56.6

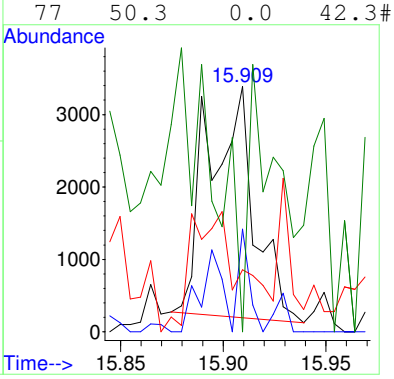


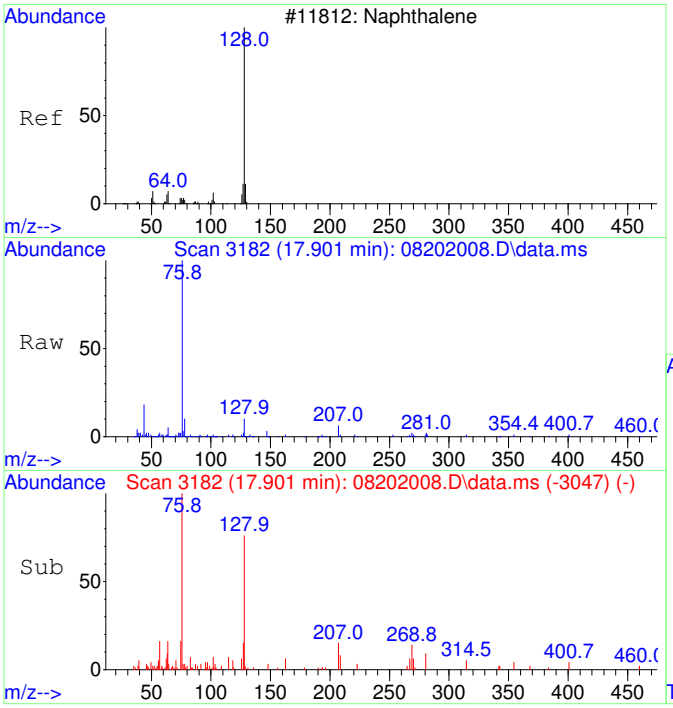


#47
1,2,4-Trimethylbenzene SCAN
Concen: 63.32 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.010 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:105 Resp: 4918

Ion	Ratio	Lower	Upper
105	100		
120	10.8	16.9	76.9#
119	0.0	0.0	41.9
77	50.3	0.0	42.3#

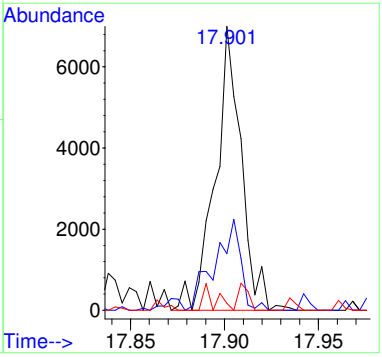




#48
Naphthalene SCAN
Concen: 57.30 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:128 Resp: 6734

Ion	Ratio	Lower	Upper
128	100		
127	32.0	0.0	44.0
129	3.8	0.0	40.8



Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202008.D
Acq On : 20 Aug 2020 17:25
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL6
Misc : 2030073 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

M.I. Performed By:
TD at 8:45 am, Aug 21, 2020

M.I. Approved By:
ZR at 3:53 pm, Oct 02, 2020

Quant Time: Aug 21 08:31:14 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration

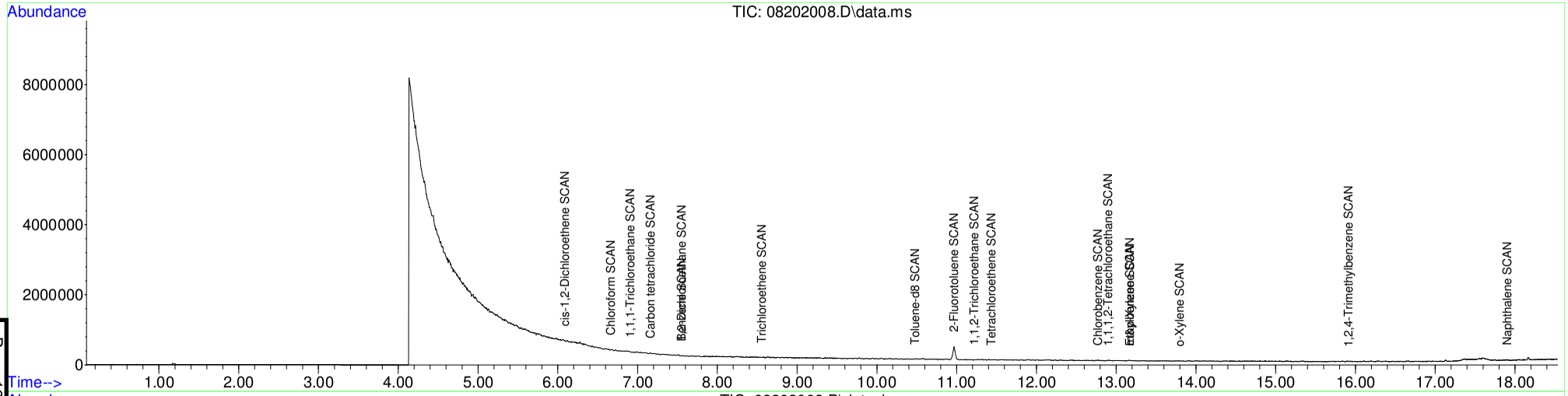
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	604968	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	5849	49.39	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	970m	36.47	ug/L	
3] trans-1,2-Dichloroethene	4.362	61	1192	42.71	ug/L	71
4] 1,1-Dichloroethane	5.079	63	1475	42.45	ug/L #	20
5] cis-1,2-Dichloroethene	6.081	61	1594	43.46	ug/L	95
6] Chloroform	6.652	83	1606	42.78	ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	1818	44.60	ug/L	97
8] Carbon tetrachloride	7.175	117	1680	43.79	ug/L	90
9] Benzene	7.503	78	3813	37.10	ug/L #	1
10] 1,2-Dichloroethane	7.540	62	1603	43.69	ug/L #	1
11] Trichloroethene	8.569	130	1464	47.31	ug/L	94
13] Toluene	10.571	91	8880	58.81	ug/L	91
14] 1,1,2-Trichloroethane	11.222	97	1632	49.61	ug/L	93
15] Tetrachloroethene	11.432	166	2206	50.49	ug/L	99
16] Chlorobenzene	12.757	112	5616	51.95	ug/L	87
17] 1,1,1,2-Tetrachloroethane	12.908	131	1936	49.98	ug/L	97
18] Ethylbenzene	12.964	91	10080	54.85	ug/L	96
19] m&p-Xylene	13.162	91	16478	114.72	ug/L	94
20] o-Xylene	13.774	91	8511	55.46	ug/L	98
21] 1,1,2,2-Tetrachloroethane	14.873	83	3604	52.99	ug/L	98
22] 1,3,5-Trimethylbenzene	15.340	105	8630	52.84	ug/L	95
23] 1,2,4-Trimethylbenzene	15.896	105	9662	56.95	ug/L	92
24] Naphthalene	17.903	128	14370	53.59	ug/L	98
25) 2-Fluorotoluene SCAN	10.969	109	276390	4686.70	ug/L	97
29) cis-1,2-Dichloroethene...	6.086	61	446	23.21	ug/L #	77
30) Chloroform SCAN	6.662	83	1146	54.98	ug/L #	27
31) 1,1,1-Trichloroethane ...	6.906	97	1606	84.55	ug/L #	25
32) Carbon tetrachloride SCAN	7.161	117	1077	54.36	ug/L #	15
33) Benzene SCAN	7.550	78	16747	320.23	ug/L	92
34) 1,2-Dichloroethane SCAN	7.550	62	733	37.96	ug/L #	26
35) Trichloroethene SCAN	8.557	130	438	30.48	ug/L #	11
36) Toluene-d8 SCAN	10.475	98	3315	57.48	ug/L	99
38) 1,1,2-Trichloroethane ...	11.221	97	839	50.61	ug/L #	13
39) Tetrachloroethene SCAN	11.430	166	1089	61.37	ug/L #	37
40) Chlorobenzene SCAN	12.772	112	2260	44.78	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.891	131	1738	93.05	ug/L #	34
42) Ethylbenzene SCAN	13.169	91	10146	75.40	ug/L	70
43) m&p-Xylene SCAN	13.169	91	10146	75.40	ug/L #	65
44) o-Xylene SCAN	13.797	91	6861	95.26	ug/L #	51
47) 1,2,4-Trimethylbenzene...	15.909	105	4918	63.32	ug/L #	42
48) Naphthalene SCAN	17.901	128	6734	57.30	ug/L	67

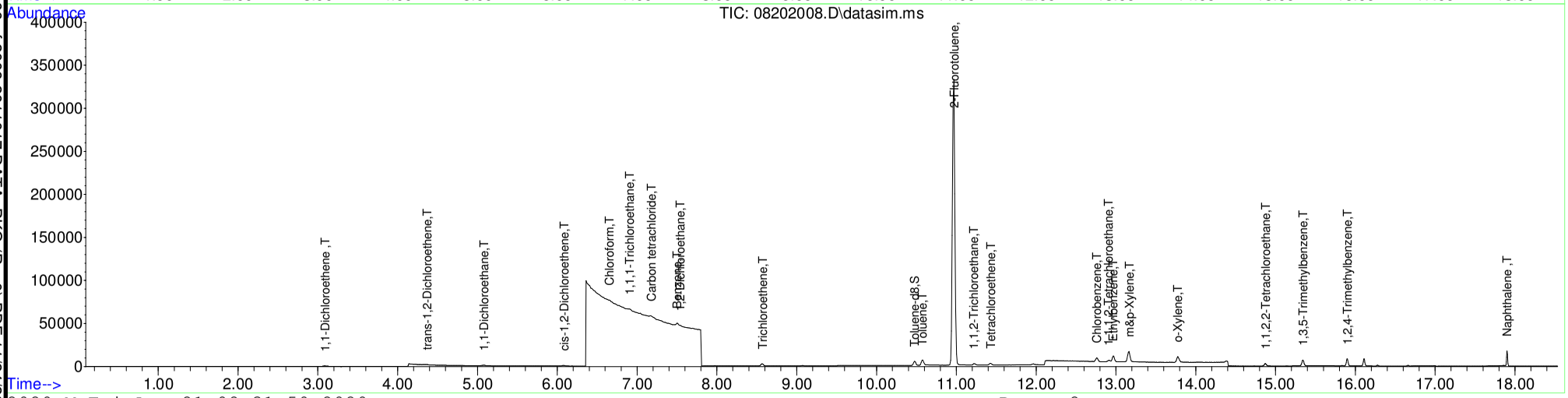
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202008.D
Acq On : 20 Aug 2020 17:25
InstName : AG5975C
Operator : TD
Sample : S20H039-CAL6
Misc : 2030073 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 21 08:31:14 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:30:13 2020
Response via : Initial Calibration





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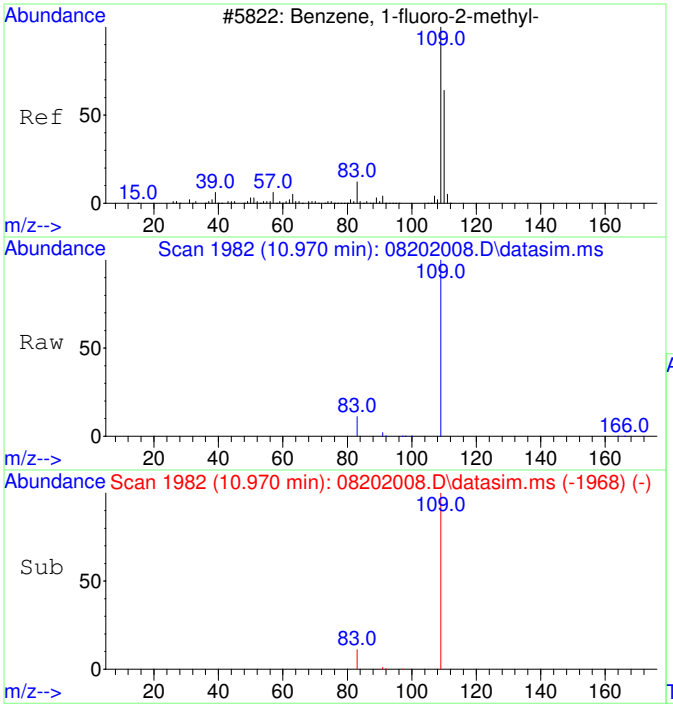
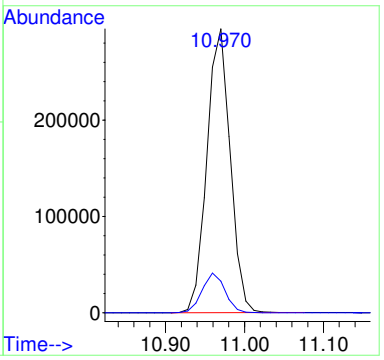
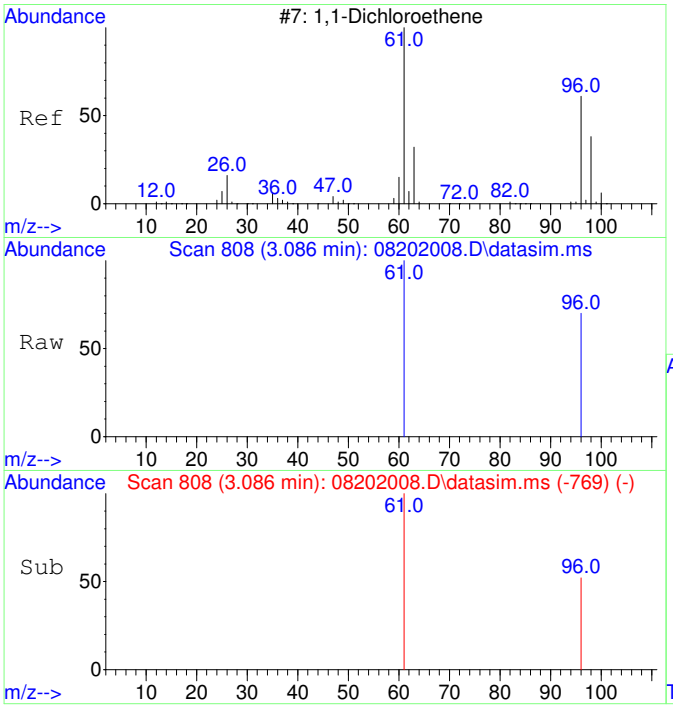


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:109 Resp: 604968

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

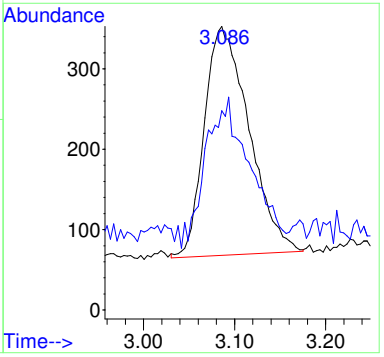


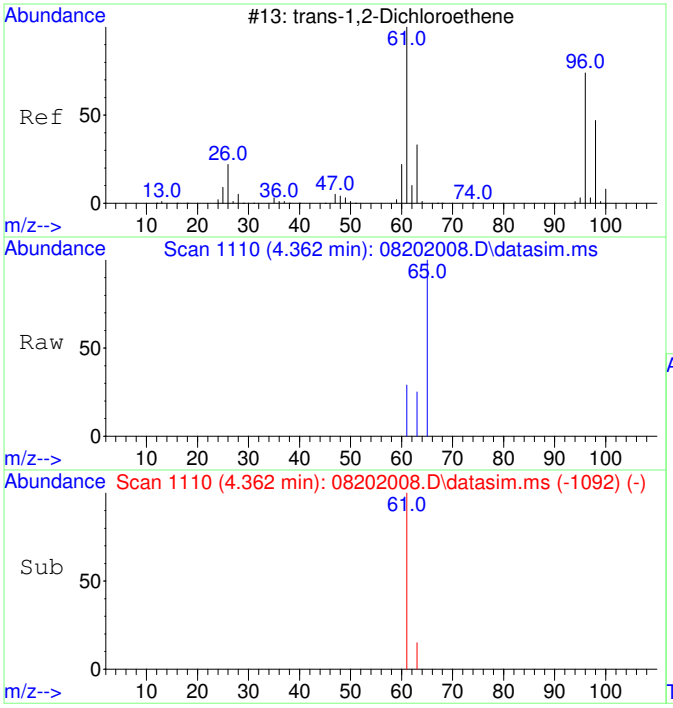


#2
1,1-Dichloroethene
Concen: 36.47 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. -0.004 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 61 Resp: 970

Ion	Ratio	Lower	Upper
61	100		
96	85.9	37.2	97.2

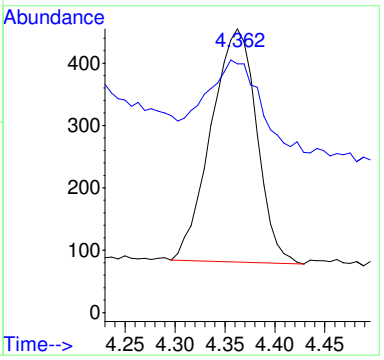


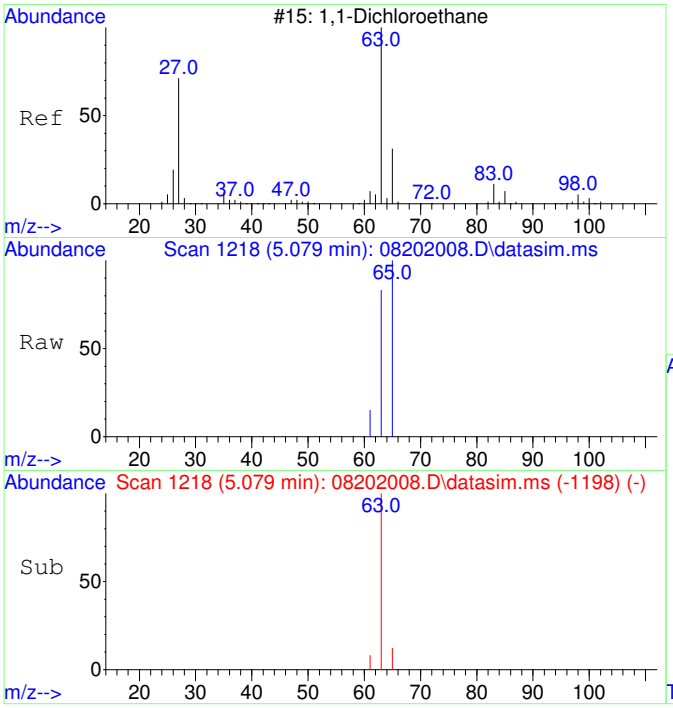


#3
trans-1,2-Dichloroethene
Concen: 42.71 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. -0.033 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 61 Resp: 1192

Ion	Ratio	Lower	Upper
61	100		
63	48.7	2.4	62.4

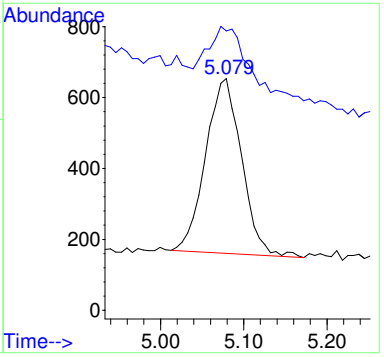


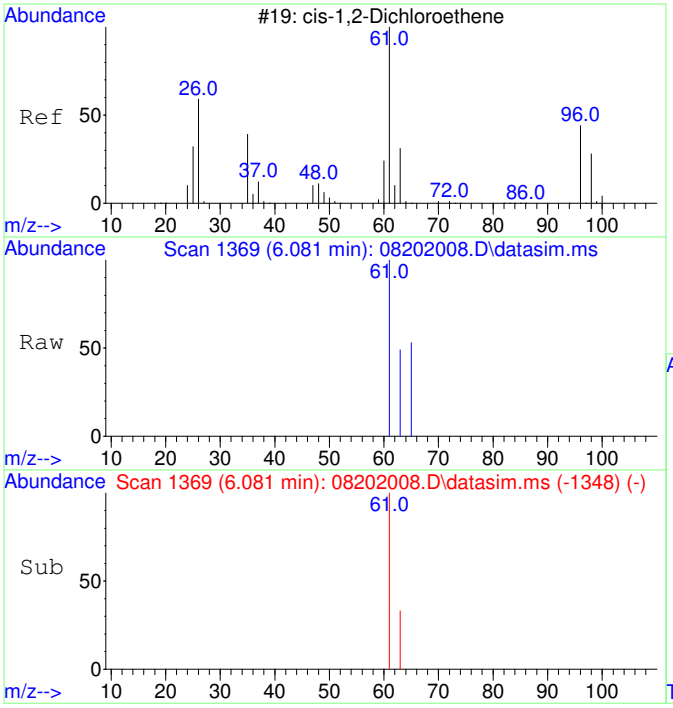


#4
1,1-Dichloroethane
Concen: 42.45 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 63 Resp: 1475

Ion	Ratio	Lower	Upper
63	100		
65	76.1	1.8	61.8#

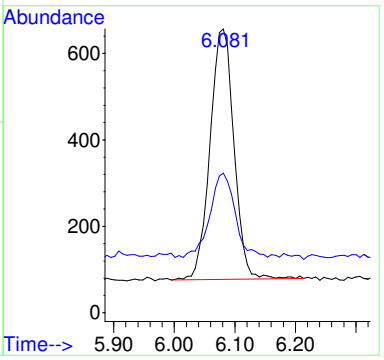


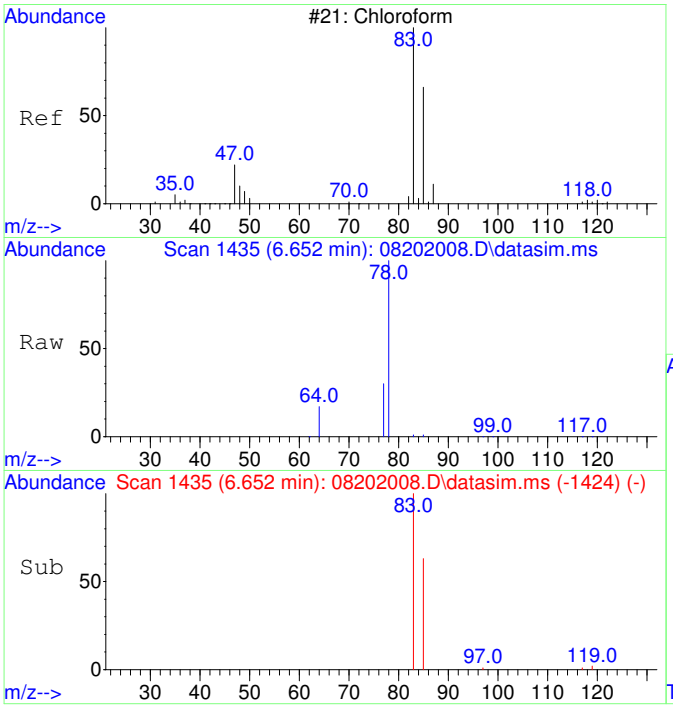


#5
cis-1,2-Dichloroethene
Concen: 43.46 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 61 Resp: 1594

Ion	Ratio	Lower	Upper
61	100		
63	35.1	2.5	62.5

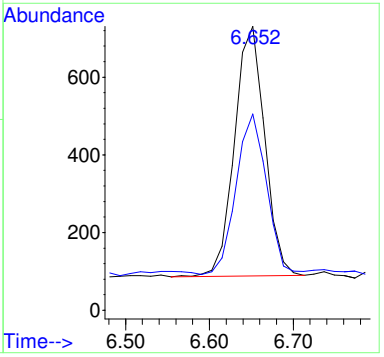


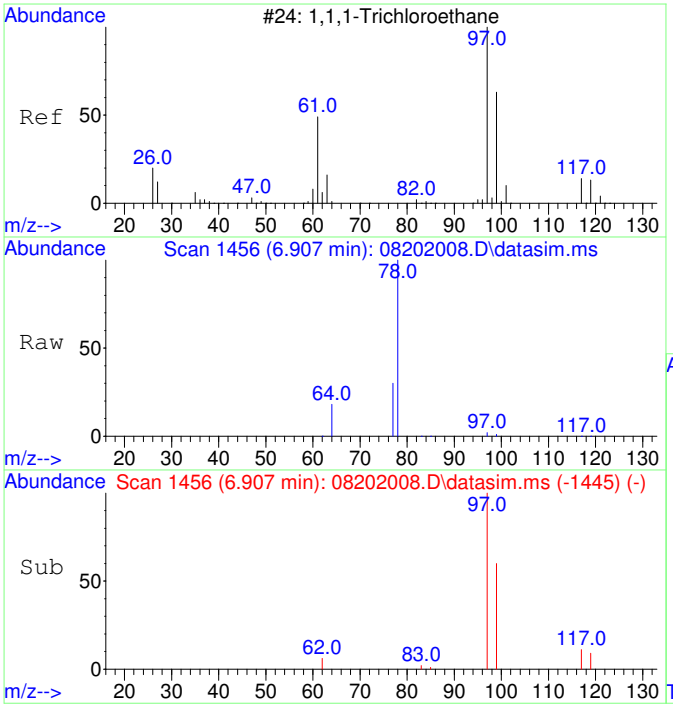


#6
Chloroform
Concen: 42.78 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 83 Resp: 1606

Ion	Ratio	Lower	Upper
83	100		
85	64.9	35.1	95.1

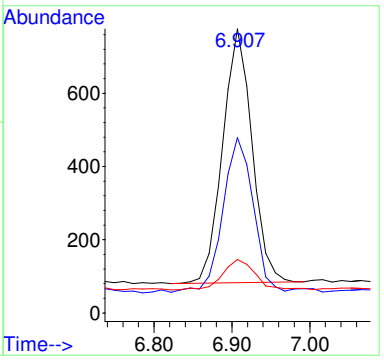


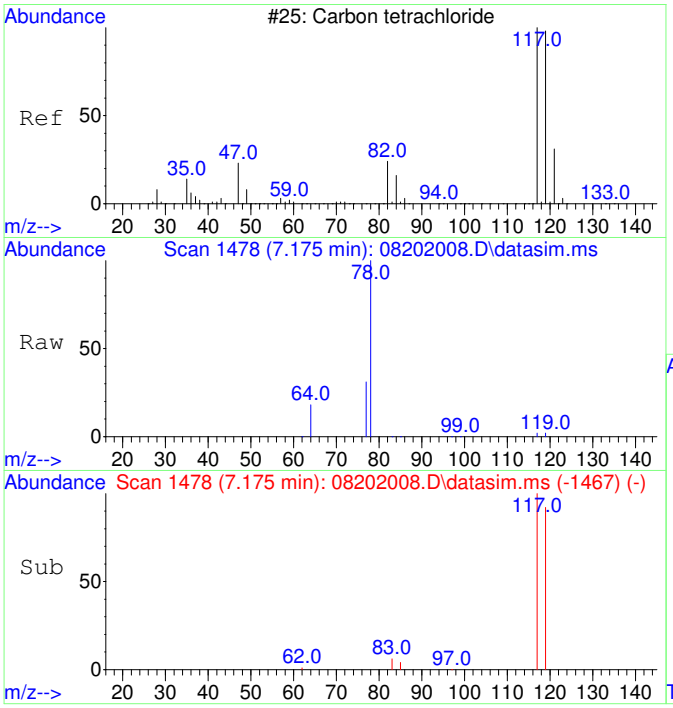


#7
1,1,1-Trichloroethane
Concen: 44.60 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 97 Resp: 1818

Ion	Ratio	Lower	Upper
97	100		
99	61.9	34.6	94.6
117	13.4	0.0	43.2

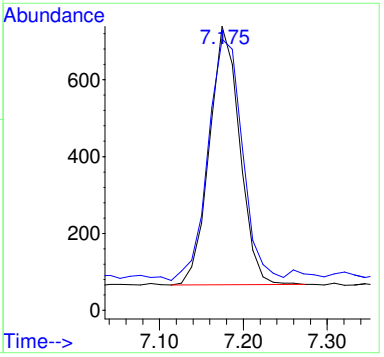


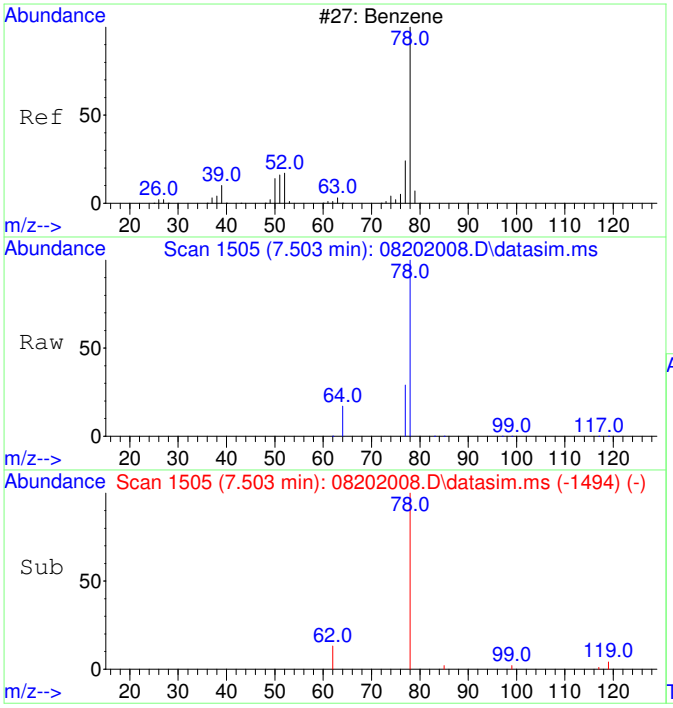


#8
Carbon tetrachloride
Concen: 43.79 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:117 Resp: 1680

Ion	Ratio	Lower	Upper
117	100		
119	105.9	66.4	126.4

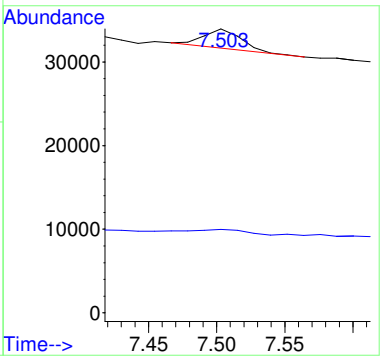


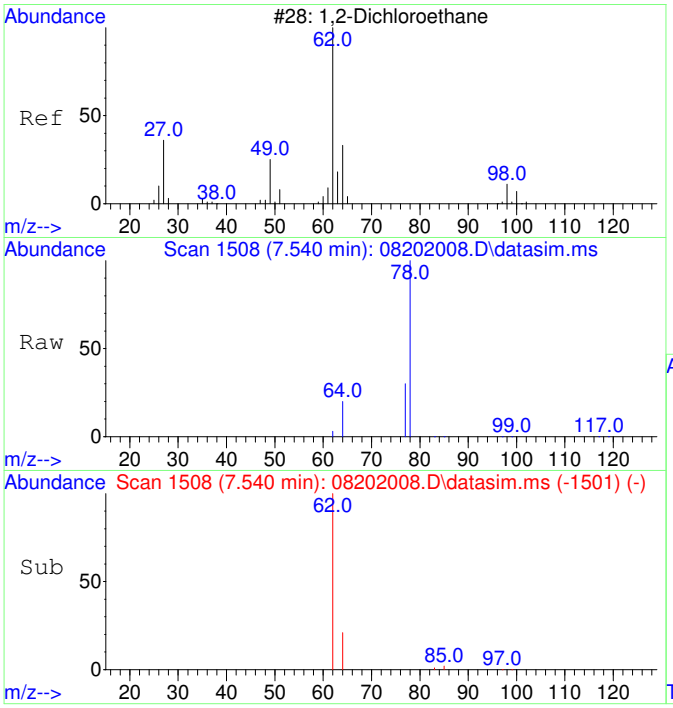


#9
Benzene
Concen: 37.10 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 78 Resp: 3813

Ion	Ratio	Lower	Upper
78	100		
77	99.1	0.0	53.2#

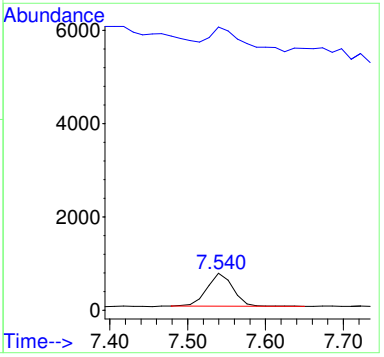


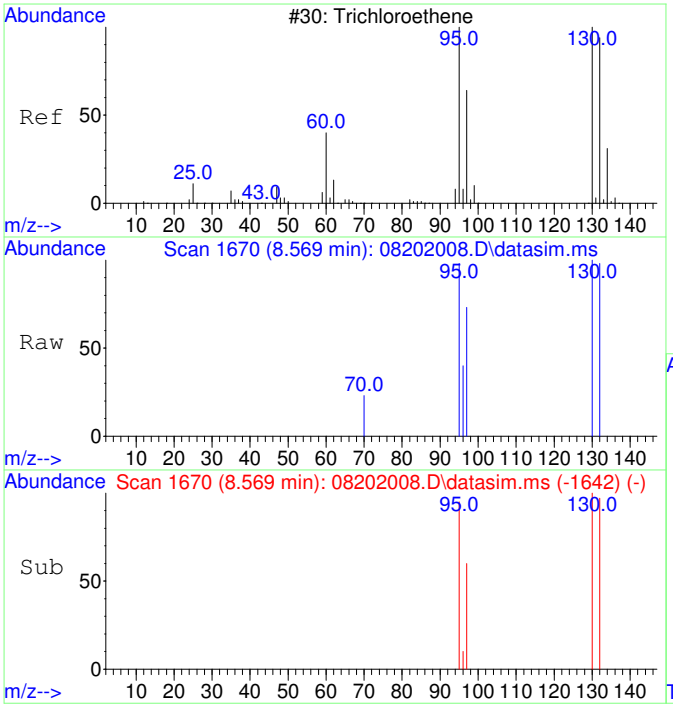


#10
1,2-Dichloroethane
Concen: 43.69 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 62 Resp: 1603

Ion	Ratio	Lower	Upper
62	100		
64	90.9	2.3	62.3#

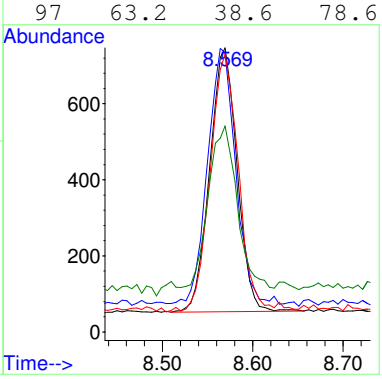


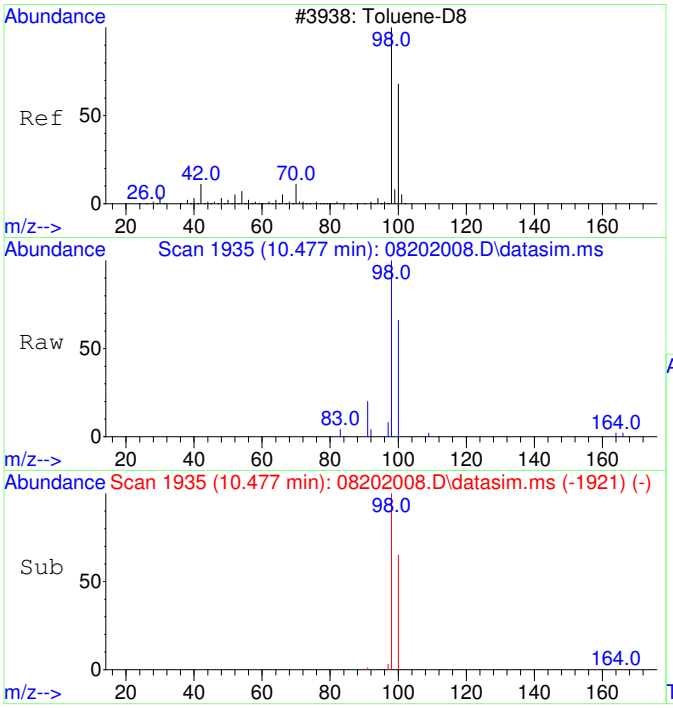


#11
Trichloroethene
Concen: 47.31 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:130 Resp: 1464

Ion	Ratio	Lower	Upper
130	100		
95	98.6	60.7	120.7
132	100.6	76.0	116.0
97	63.2	38.6	78.6

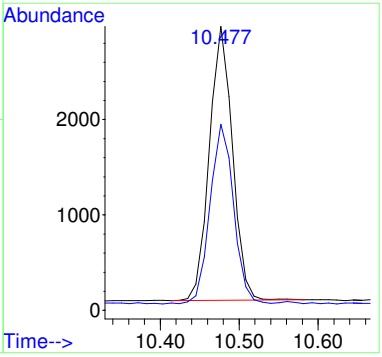


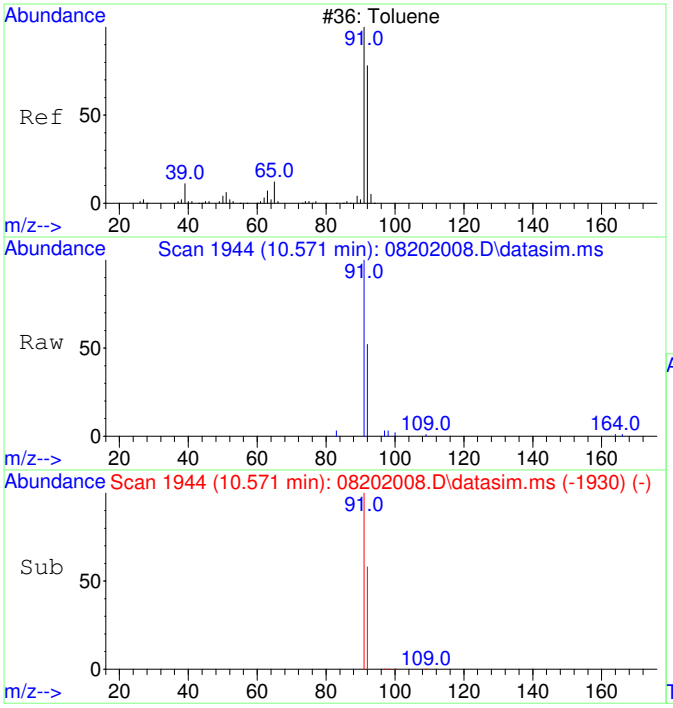


#12
Toluene-d8
Concen: 49.39 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 98 Resp: 5849

Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1

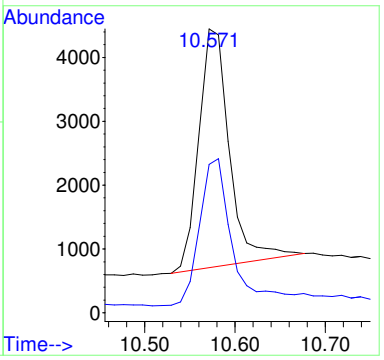


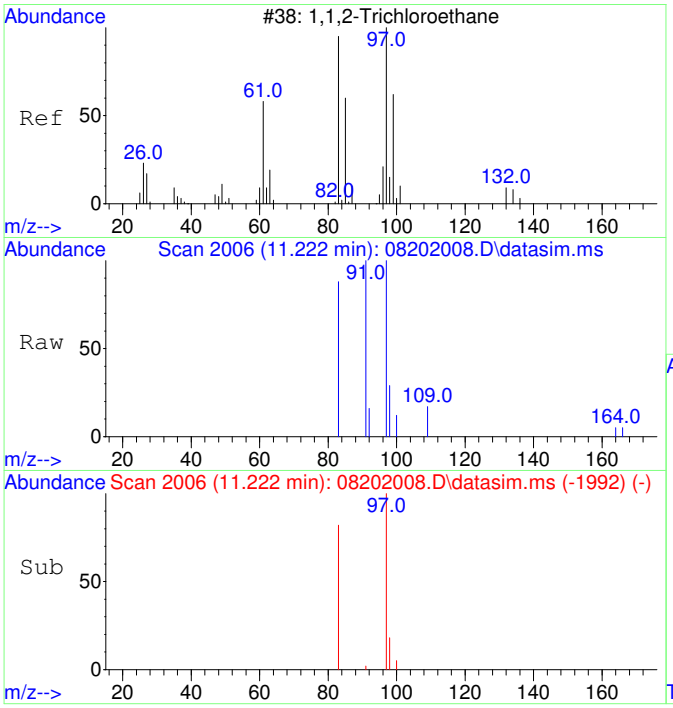


#13
Toluene
Concen: 58.81 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 8880

Ion	Ratio	Lower	Upper
91	100		
92	66.5	29.9	89.9

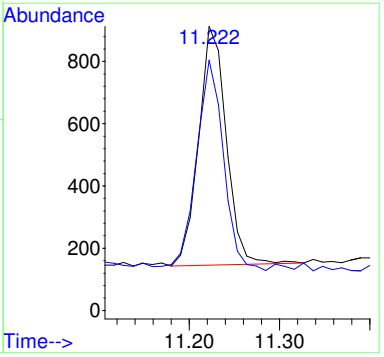


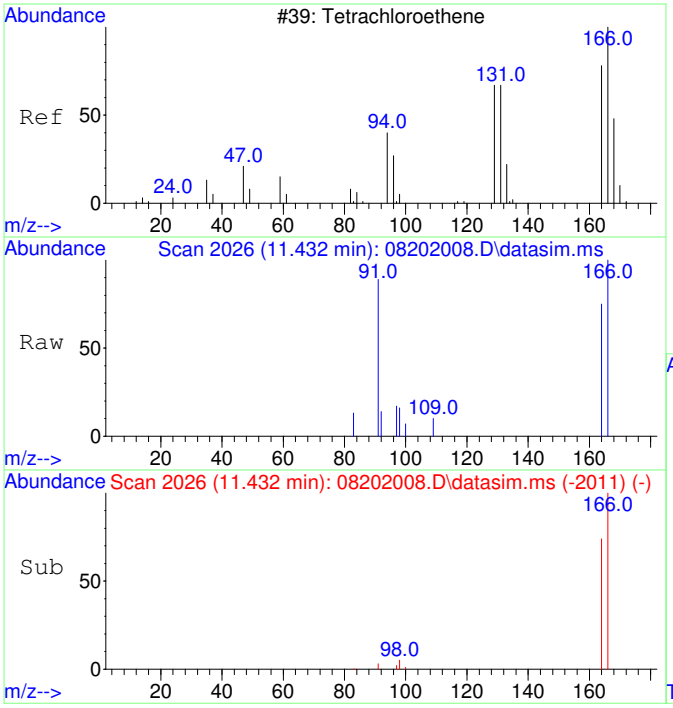


#14
1,1,2-Trichloroethane
Concen: 49.61 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 97 Resp: 1632

Ion	Ratio	Lower	Upper
97	100		
83	87.4	51.2	111.2

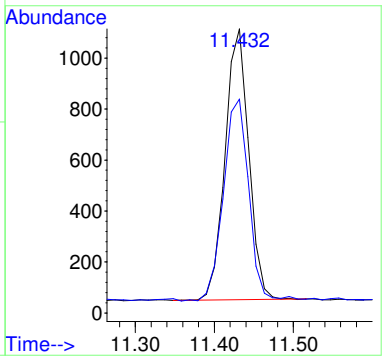


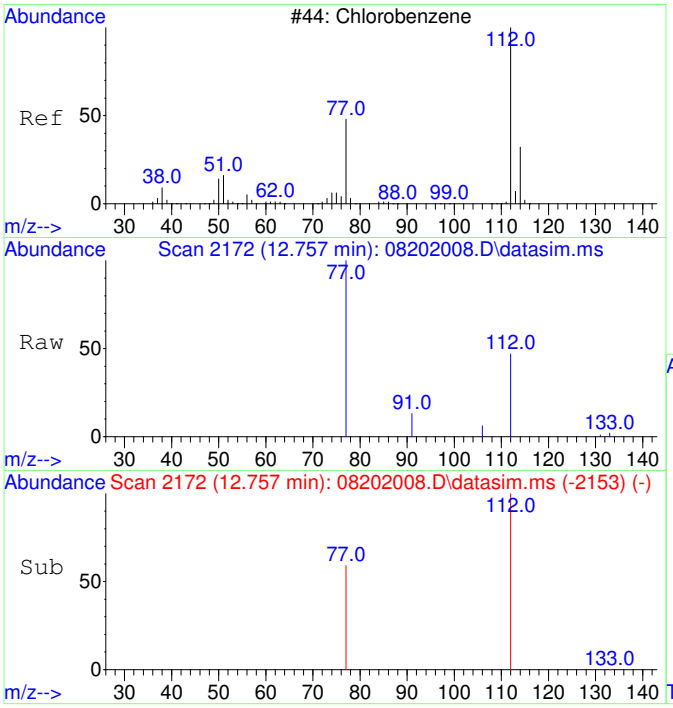


#15
Tetrachloroethene
Concen: 50.49 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:166 Resp: 2206

Ion	Ratio	Lower	Upper
166	100		
164	78.9	47.8	107.8

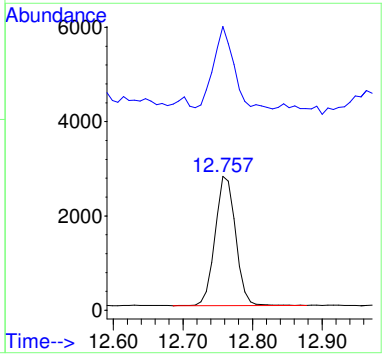


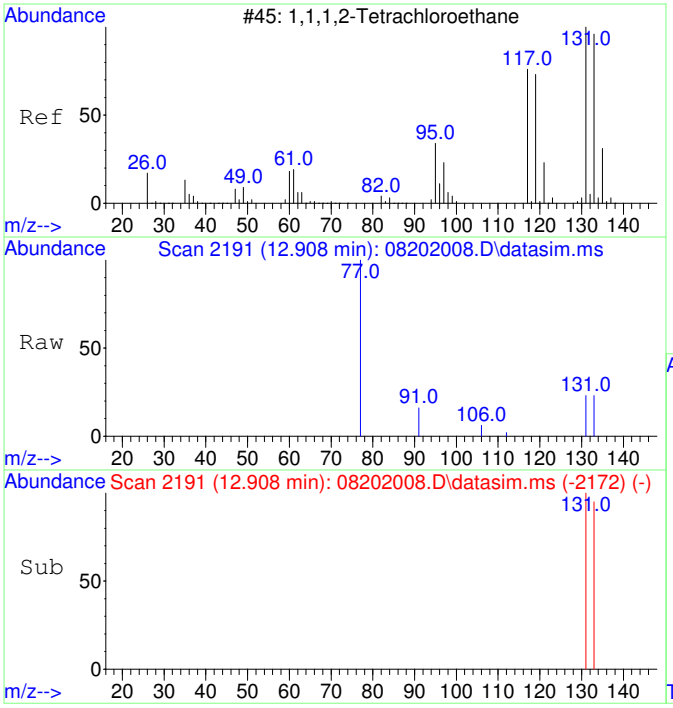


#16
Chlorobenzene
Concen: 51.95 ug/L
RT: 12.757 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:112 Resp: 5616

Ion	Ratio	Lower	Upper
112	100		
77	63.2	23.6	83.6

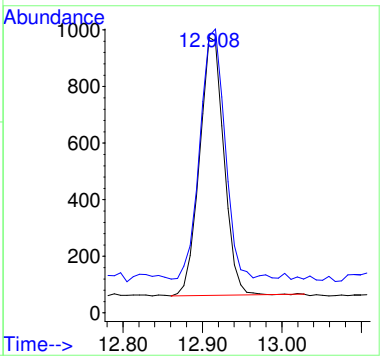


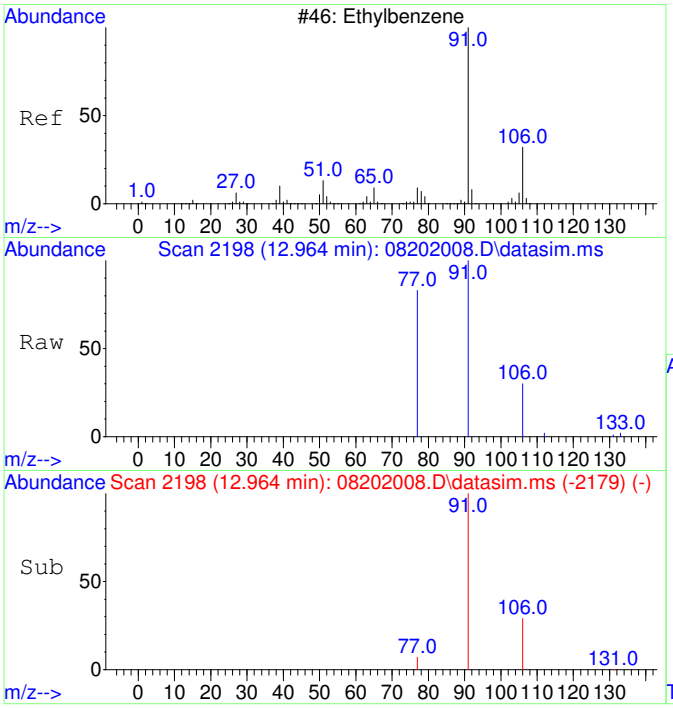


#17
1,1,1,2-Tetrachloroethane
Concen: 49.98 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:131 Resp: 1936

Ion	Ratio	Lower	Upper
131	100		
133	99.2	66.3	126.3

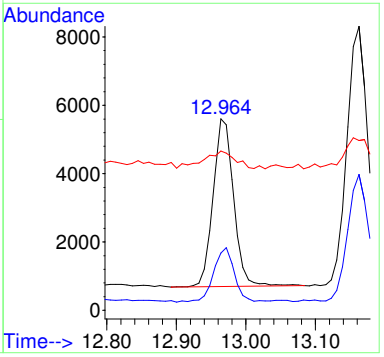


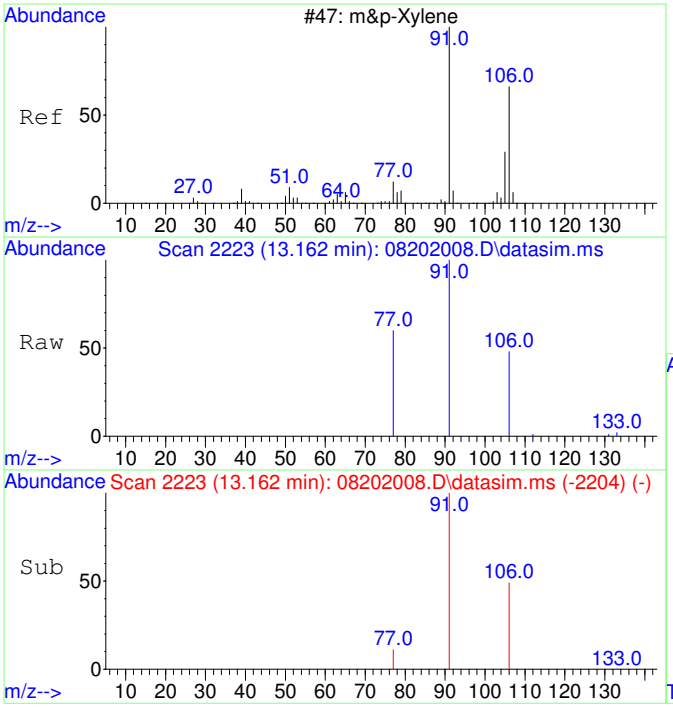


#18
Ethylbenzene
Concen: 54.85 ug/L
RT: 12.964 min Scan# 2198
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 10080

Ion	Ratio	Lower	Upper
91	100		
106	32.7	3.0	63.0
77	15.3	0.0	38.2

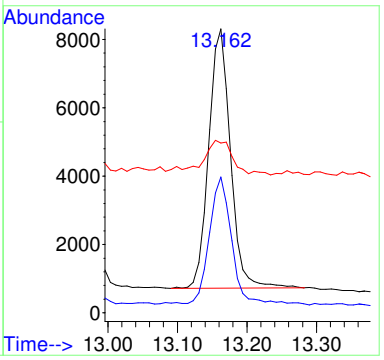


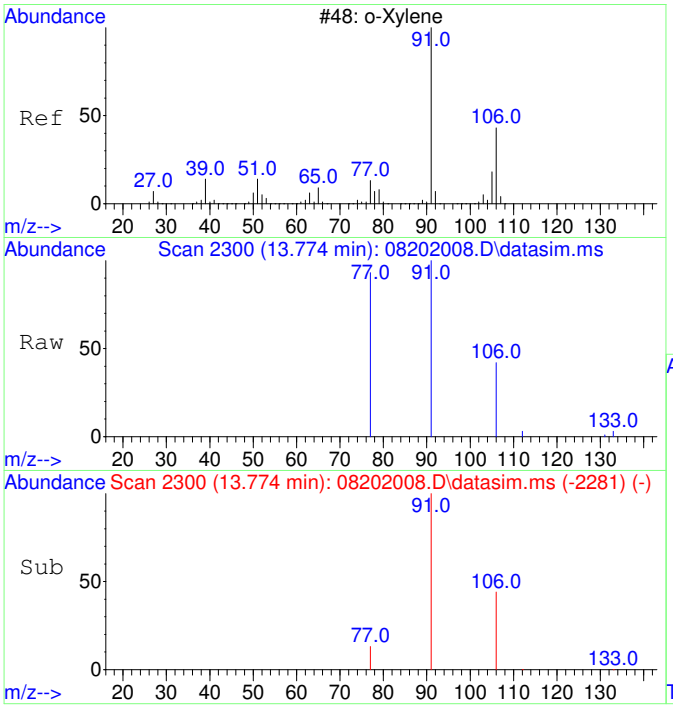


#19
m&p-Xylene
Concen: 114.72 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 16478

Ion	Ratio	Lower	Upper
91	100		
106	48.8	22.2	82.2
77	17.4	0.0	42.4

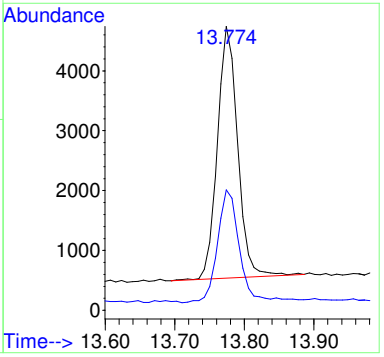


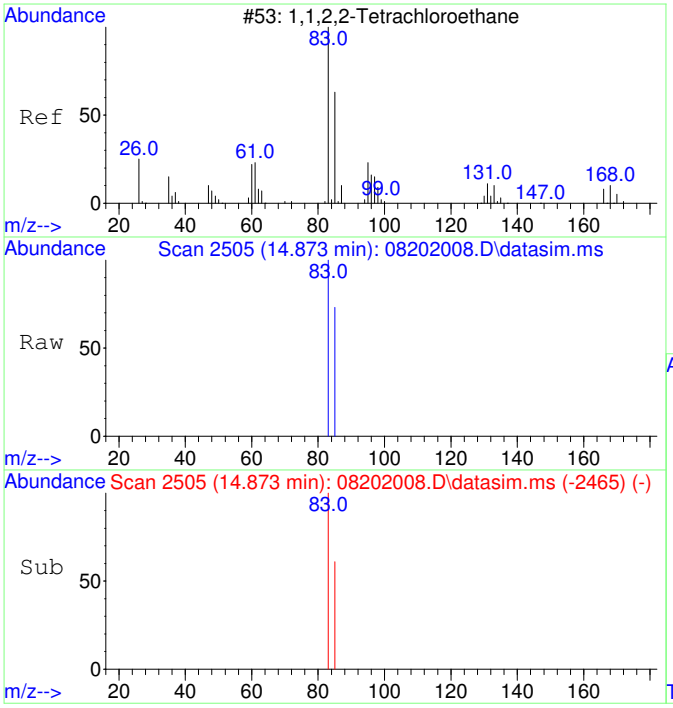


#20
o-Xylene
Concen: 55.46 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 8511

Ion	Ratio	Lower	Upper
91	100		
106	47.6	19.2	79.2

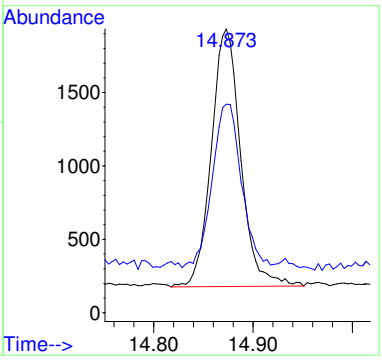


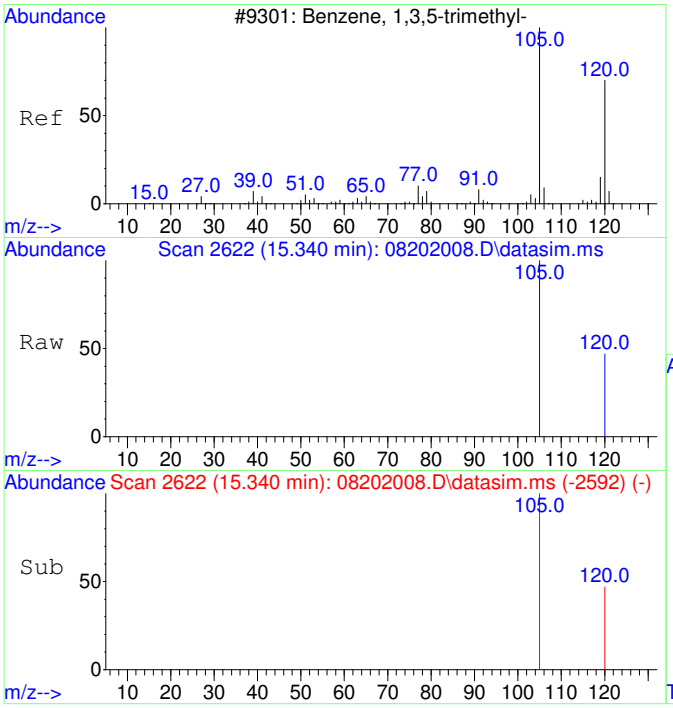


#21
1,1,2,2-Tetrachloroethane
Concen: 52.99 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 83 Resp: 3604

Ion	Ratio	Lower	Upper
83	100		
85	63.3	34.8	94.8

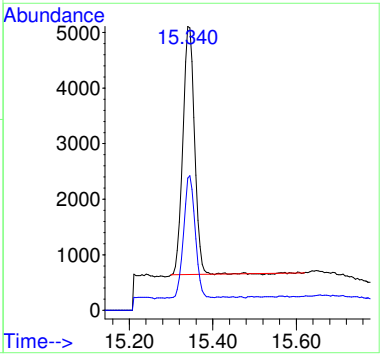


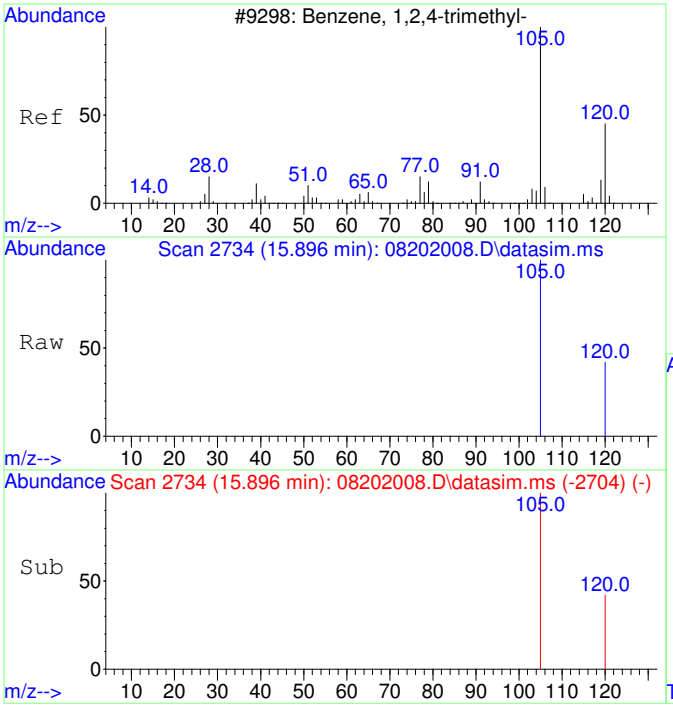


#22
1,3,5-Trimethylbenzene
Concen: 52.84 ug/L
RT: 15.340 min Scan# 2622
Delta R.T. -0.005 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:105 Resp: 8630

Ion	Ratio	Lower	Upper
105	100		
120	47.6	21.1	81.1

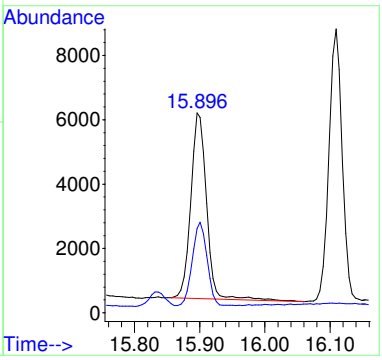


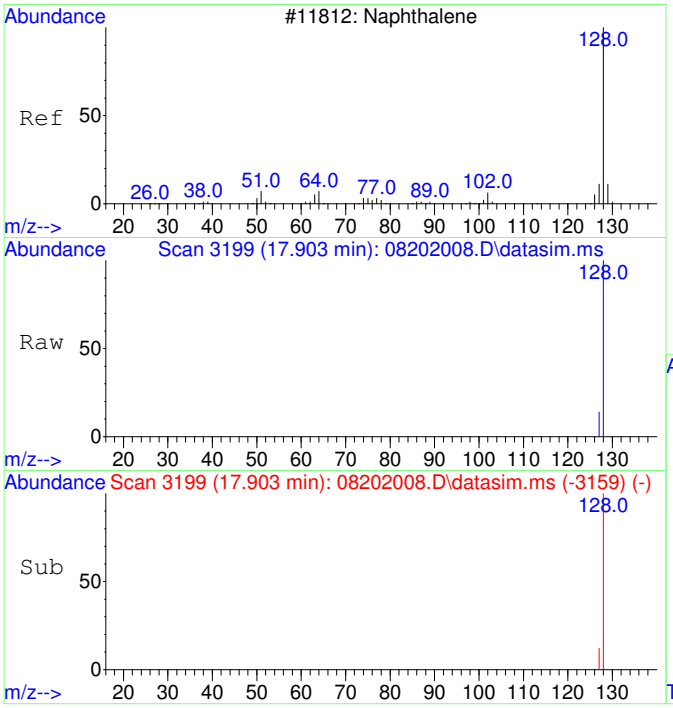


#23
1,2,4-Trimethylbenzene
Concen: 56.95 ug/L
RT: 15.896 min Scan# 2734
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:105 Resp: 9662

Ion	Ratio	Lower	Upper
105	100		
120	41.8	17.2	77.2

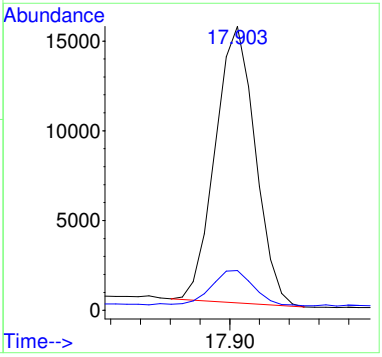


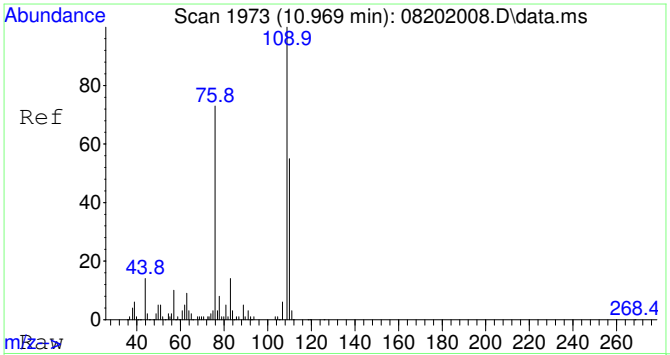


#24
Naphthalene
Concen: 53.59 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:128 Resp: 14370

Ion	Ratio	Lower	Upper
128	100		
127	13.4	0.0	42.5

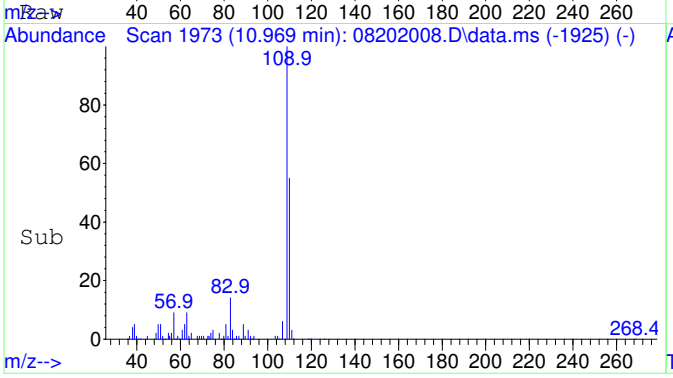


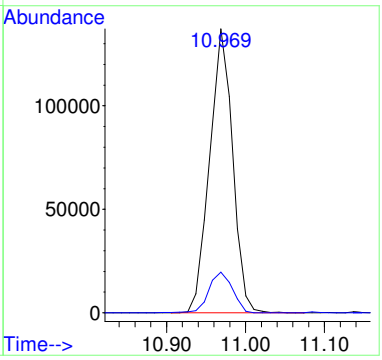


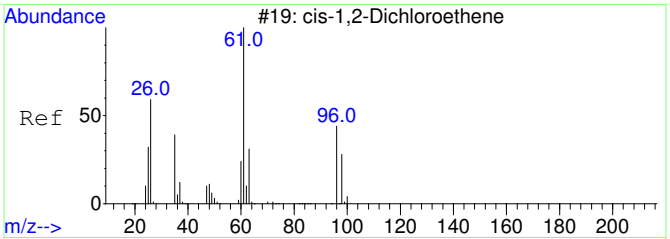
#25
2-Fluorotoluene SCAN
Concen: 4686.70 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:109 Resp: 276390

Ion	Ratio	Lower	Upper
109	100		
83	14.8	0.0	43.8



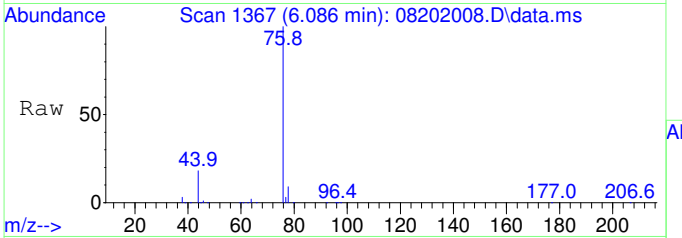


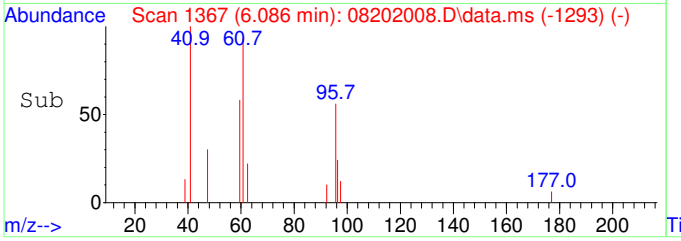


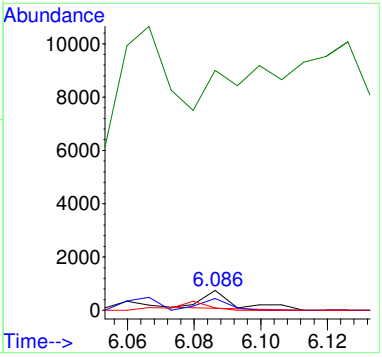
#29
cis-1,2-Dichloroethene SCAN
Concen: 23.21 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

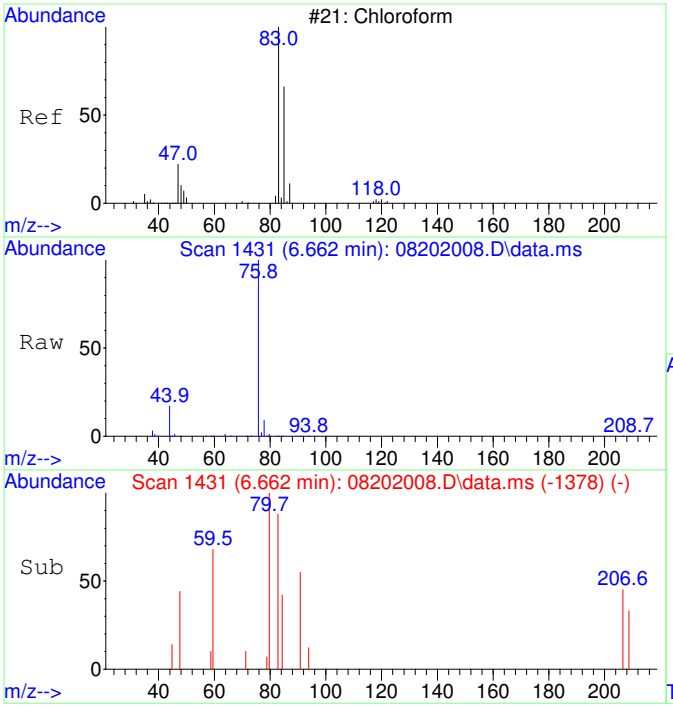
Tgt Ion: 61 Resp: 446

Ion	Ratio	Lower	Upper
61	100		
96	63.0	39.9	99.9
98	55.2	13.5	73.5
64	0.0	4.5	64.5#





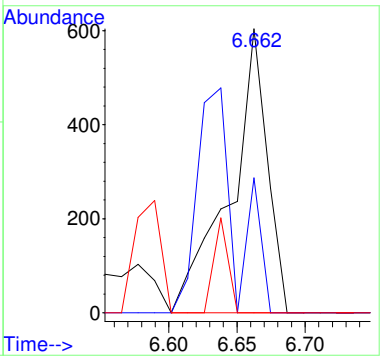


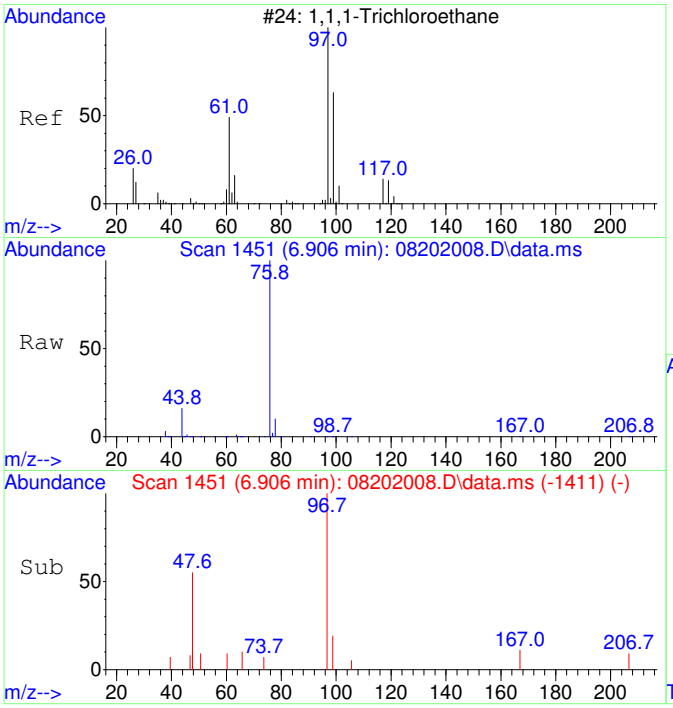


#30
Chloroform SCAN
Concen: 54.98 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 83 Resp: 1146

Ion	Ratio	Lower	Upper
83	100		
85	0.0	34.6	94.6#
47	0.0	0.0	53.4

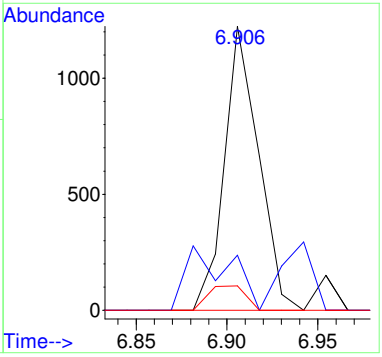


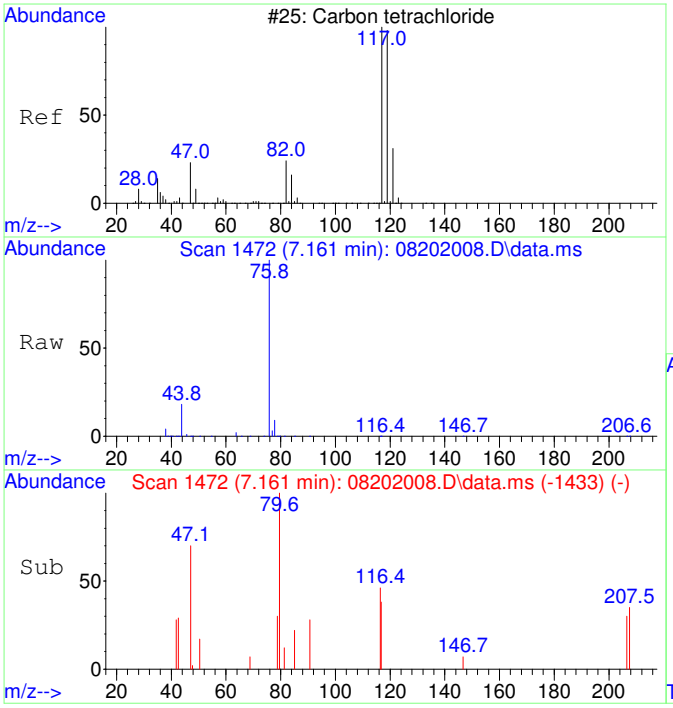


#31
1,1,1-Trichloroethane SCAN
Concen: 84.55 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 97 Resp: 1606

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	9.5	18.0	78.0#

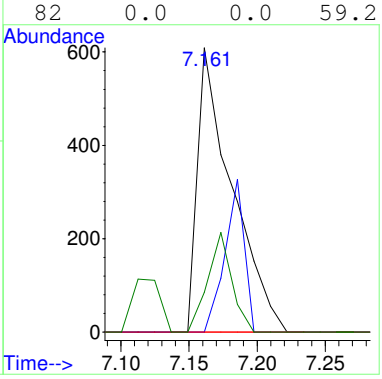


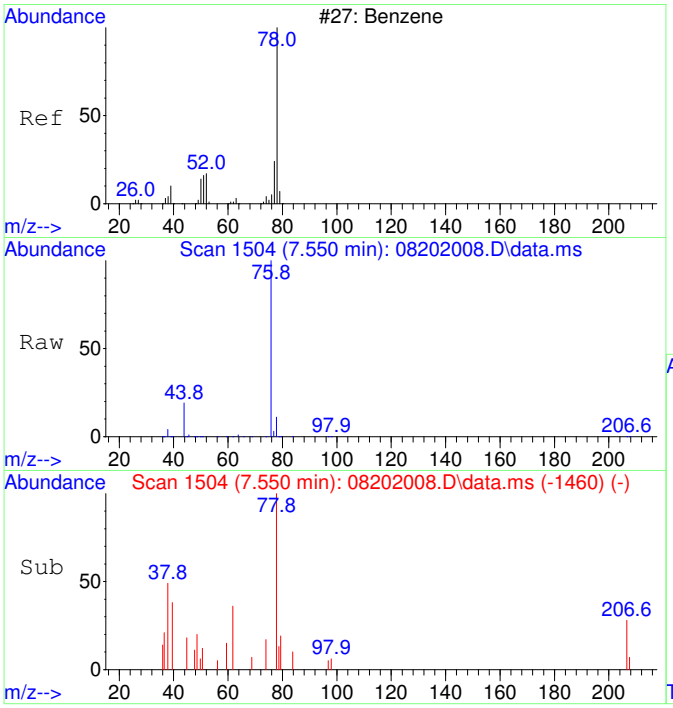


#32
Carbon tetrachloride SCAN
Concen: 54.36 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.024 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:117 Resp: 1077

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

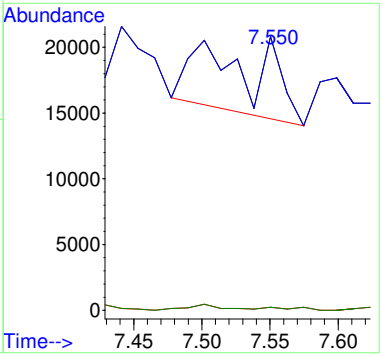


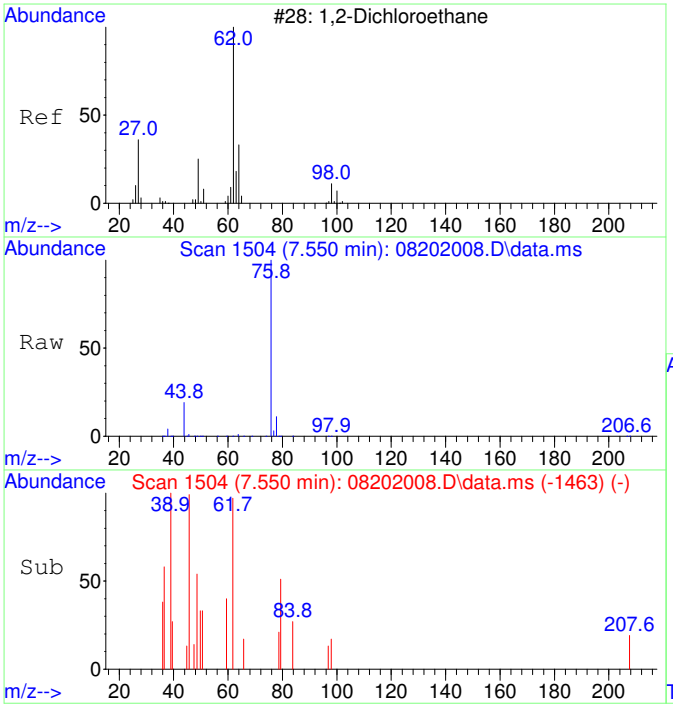


#33
Benzene SCAN
Concen: 320.23 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.037 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 78 Resp: 16747

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.6	0.0	47.9
51	1.6	0.0	44.1

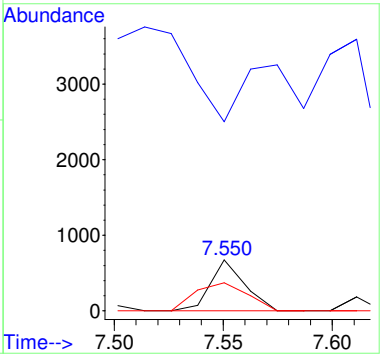


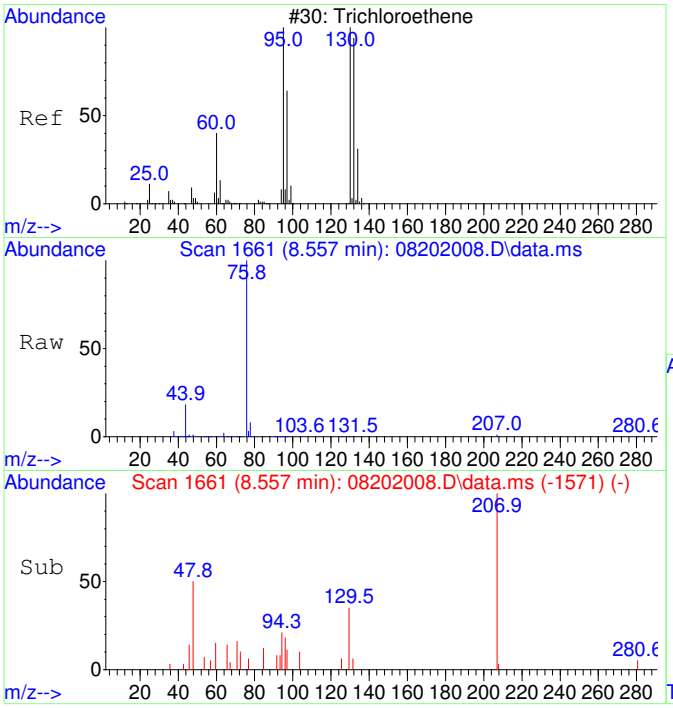


#34
1,2-Dichloroethane SCAN
Concen: 37.96 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 62 Resp: 733

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	84.6	3.9	63.9#

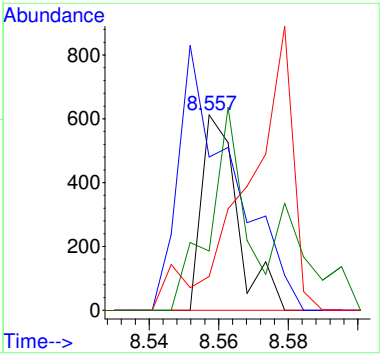


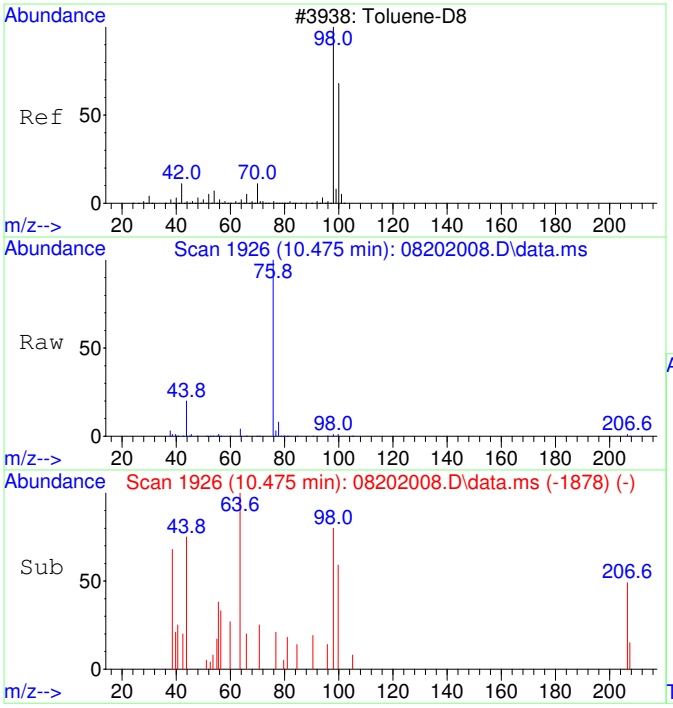


#35
Trichloroethene SCAN
Concen: 30.48 ug/L
RT: 8.557 min Scan# 1661
Delta R.T. -0.011 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:130 Resp: 438

Ion	Ratio	Lower	Upper
130	100		
95	204.1	60.5	120.5#
132	0.0	59.6	119.6#
97	81.1	28.2	88.2

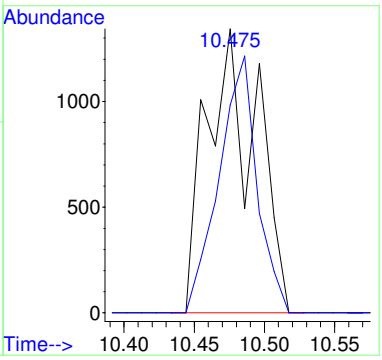


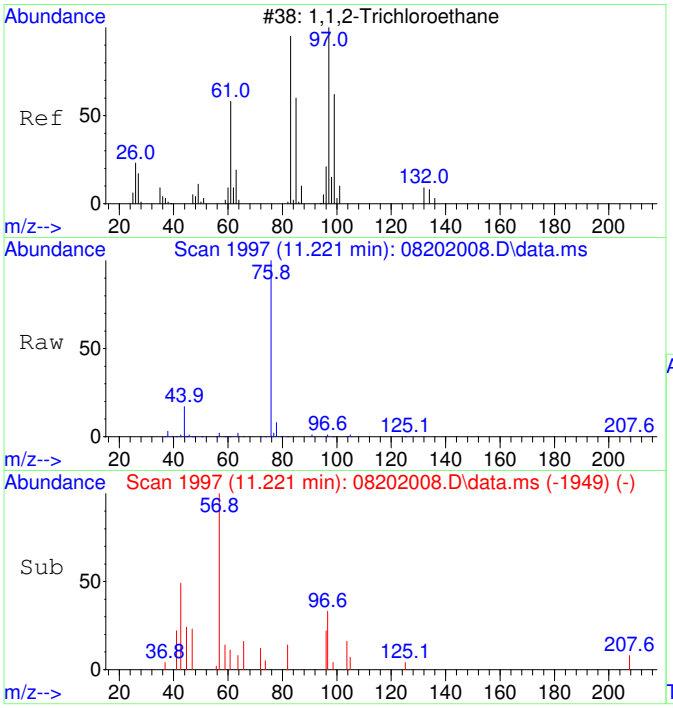


#36
Toluene-d8 SCAN
Concen: 57.48 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 98 Resp: 3315

Ion	Ratio	Lower	Upper
98	100		
100	69.2	40.0	100.0

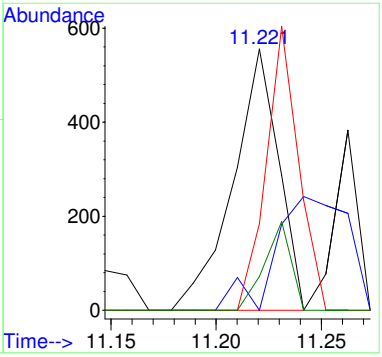


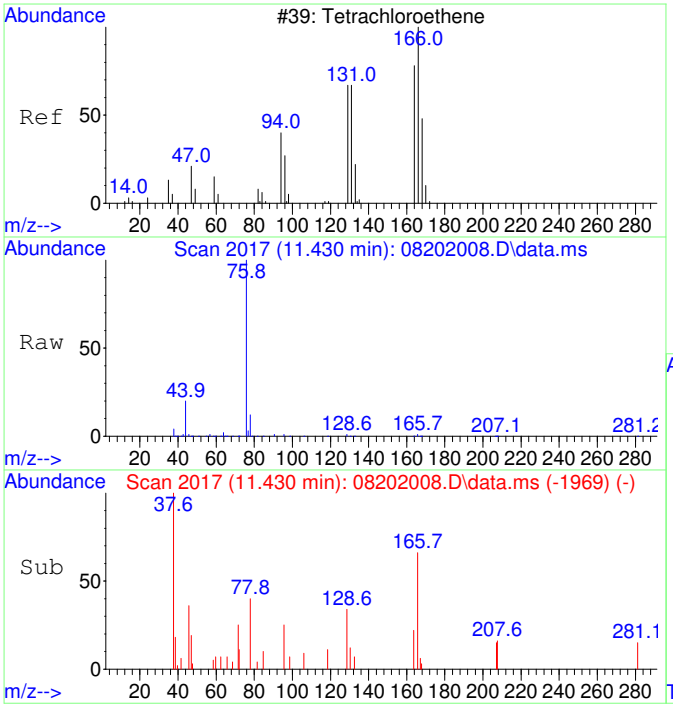


#38
1,1,2-Trichloroethane SCAN
Concen: 50.61 ug/L
RT: 11.221 min Scan# 1997
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 97 Resp: 839

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

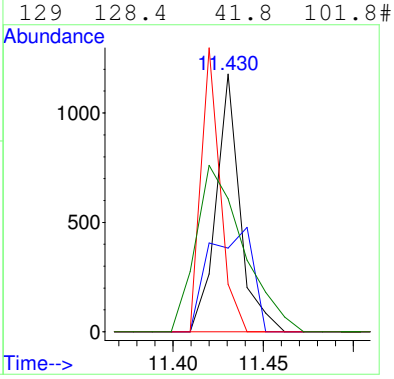


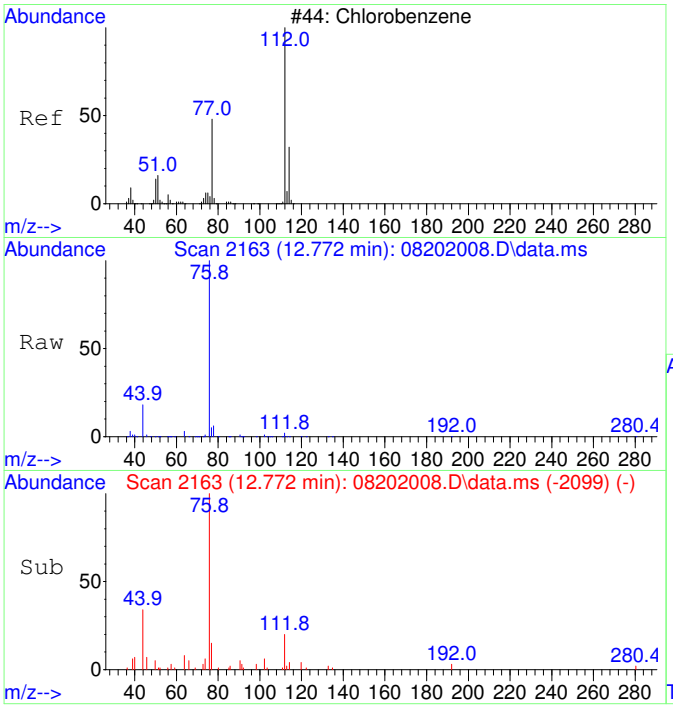


#39
Tetrachloroethene SCAN
Concen: 61.37 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:166 Resp: 1089

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	87.6	38.7	98.7
129	128.4	41.8	101.8#

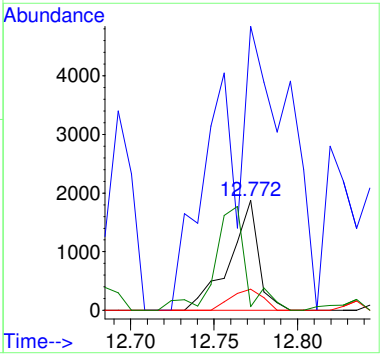


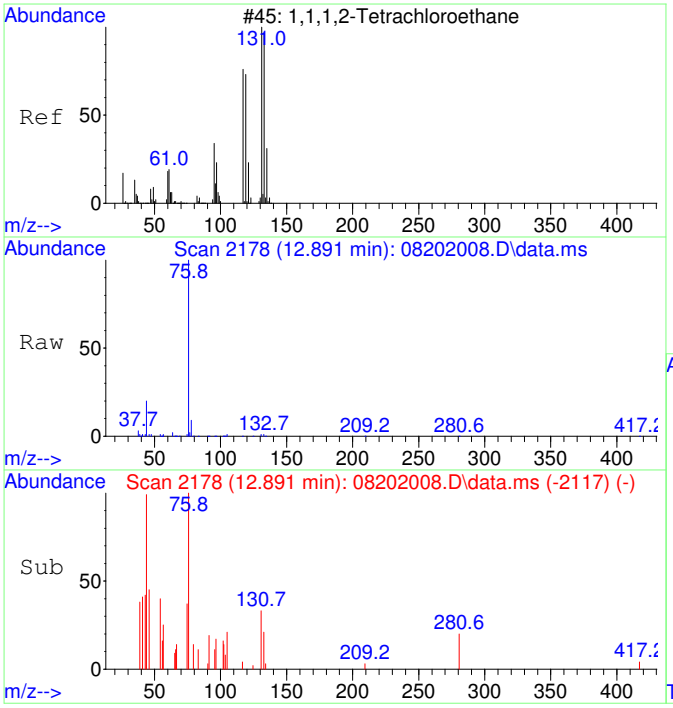


#40
Chlorobenzene SCAN
Concen: 44.78 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:112 Resp: 2260

Ion	Ratio	Lower	Upper
112	100		
77	292.5	28.2	88.2#
114	21.3	2.3	62.3
51	101.9	0.0	50.1#

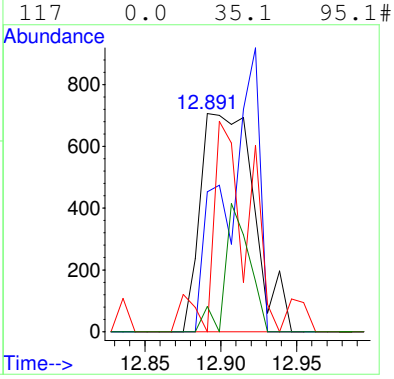


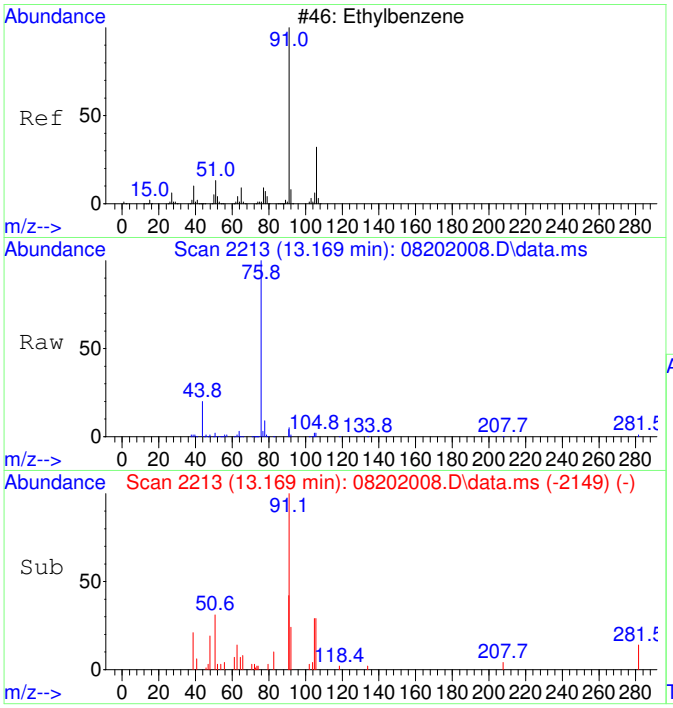


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 93.05 ug/L
RT: 12.891 min Scan# 2178
Delta R.T. -0.016 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:131 Resp: 1738

Ion	Ratio	Lower	Upper
131	100		
133	0.0	66.9	126.9#
119	64.3	40.4	100.4
117	0.0	35.1	95.1#

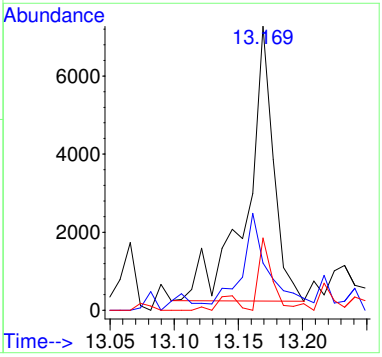


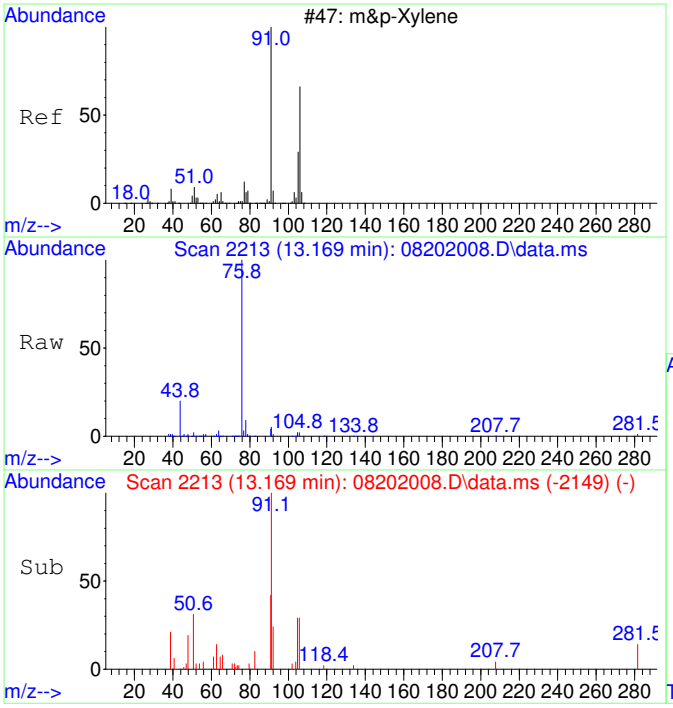


#42
Ethylbenzene SCAN
Concen: 75.40 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 10146

Ion	Ratio	Lower	Upper
91	100		
106	28.8	23.1	83.1
51	12.0	0.0	40.1

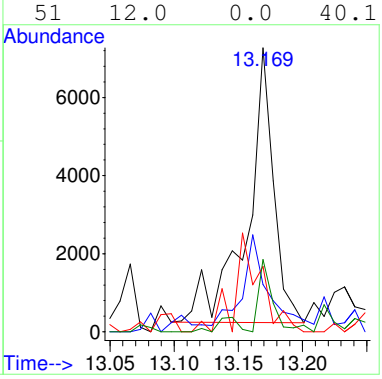


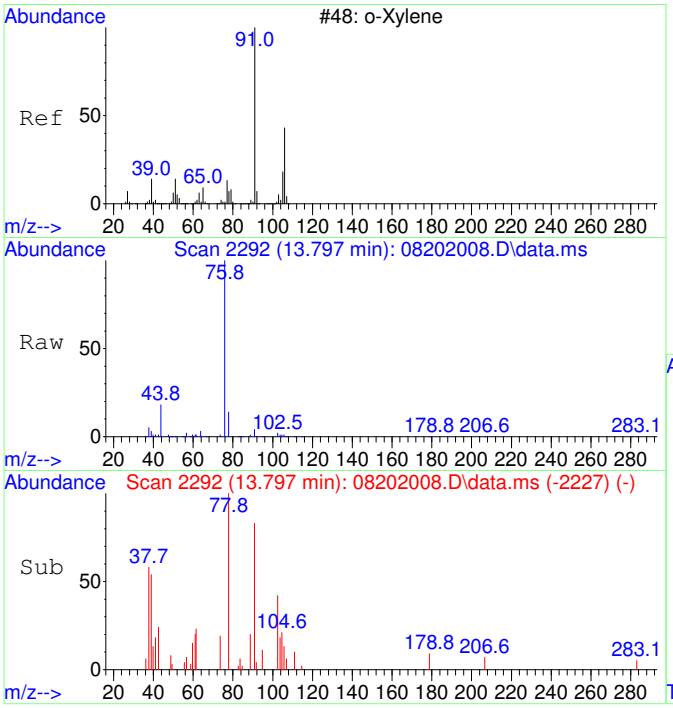


#43
m&p-Xylene SCAN
Concen: 75.40 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 10146

Ion	Ratio	Lower	Upper
91	100		
106	28.8	23.1	83.1
105	0.0	0.0	54.7
51	12.0	0.0	40.1

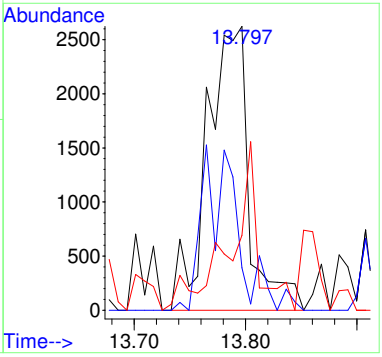


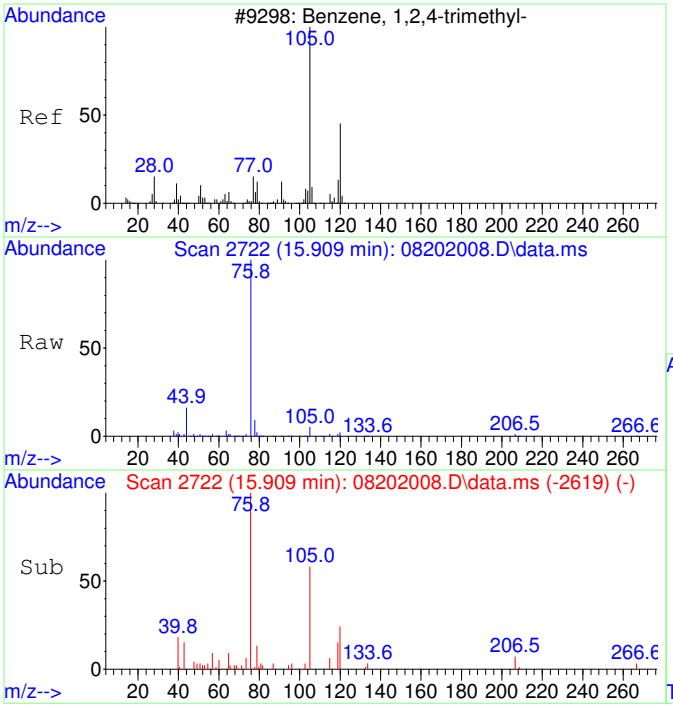


#44
o-Xylene SCAN
Concen: 95.26 ug/L
RT: 13.797 min Scan# 2292
Delta R.T. 0.016 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 6861

Ion	Ratio	Lower	Upper
91	100		
106	0.0	18.0	78.0#
105	21.3	0.0	56.6

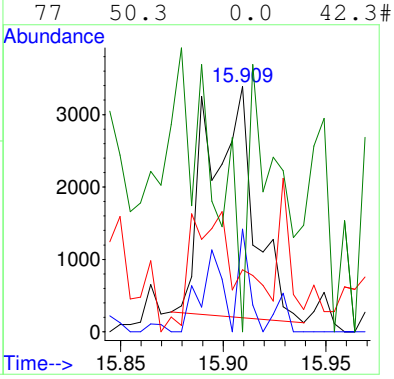


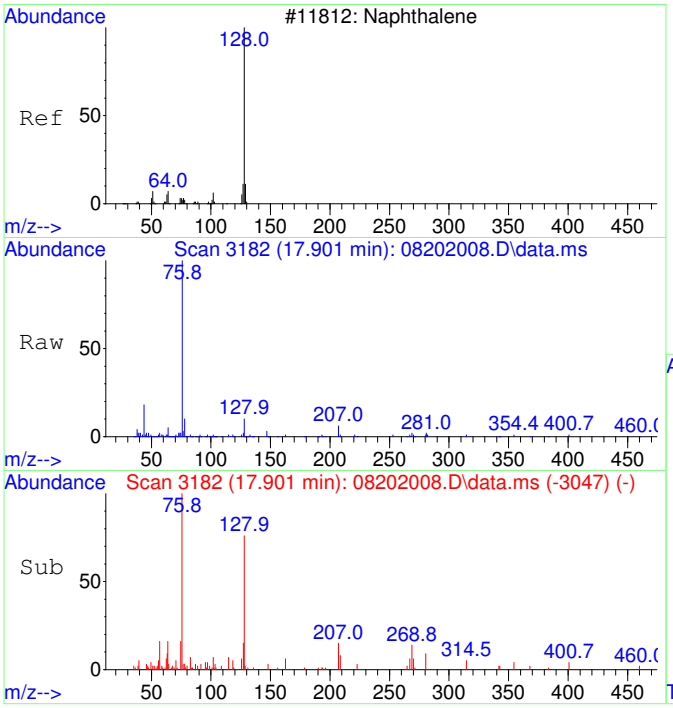


#47
1,2,4-Trimethylbenzene SCAN
Concen: 63.32 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.010 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:105 Resp: 4918

Ion	Ratio	Lower	Upper
105	100		
120	10.8	16.9	76.9#
119	0.0	0.0	41.9
77	50.3	0.0	42.3#

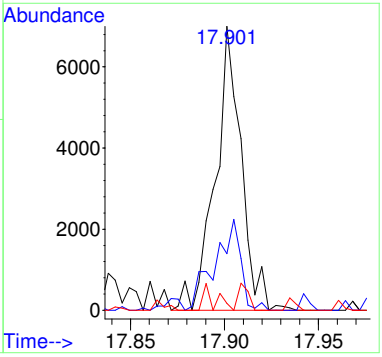




#48
Naphthalene SCAN
Concen: 57.30 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:128 Resp: 6734

Ion	Ratio	Lower	Upper
128	100		
127	32.0	0.0	44.0
129	3.8	0.0	40.8



S20H039-SCV1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202009.D
Acq On : 20 Aug 2020 17:49
InstName : AG5975C
Operator : TD
Sample : S20H039-SCV1
Misc : 2030074 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 08:34:36 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

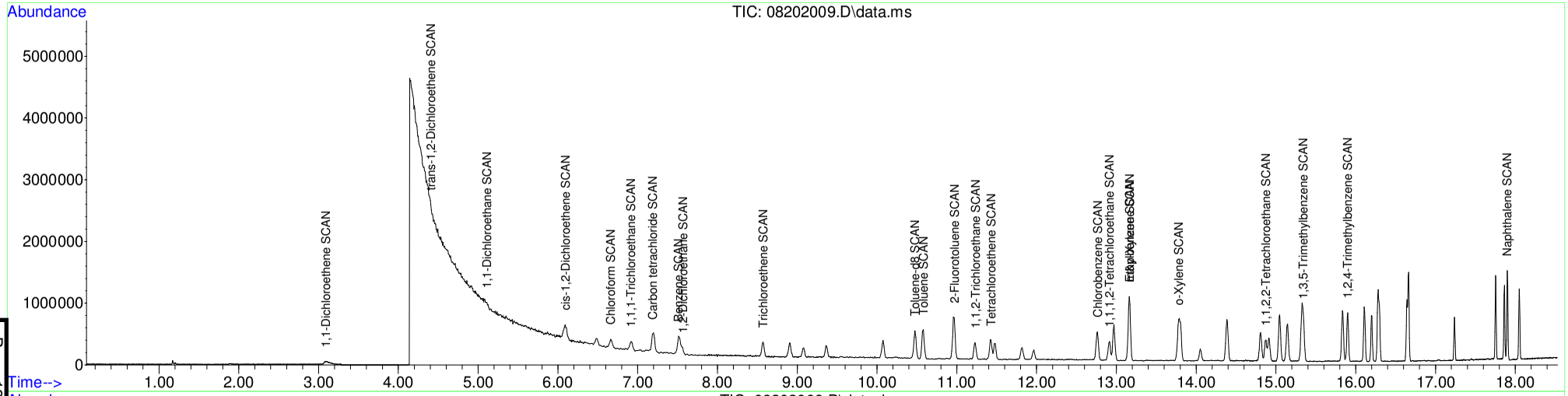
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.959	109	757040	5000.00 ug/L	-0.01
System Monitoring Compounds					
12) Toluene-d8	10.477	98	641391	4327.91 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.56%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.089	61	141995	4697.18 ug/L	84
3] trans-1,2-Dichloroethene	4.409	61	156435	4478.96 ug/L	98
4] 1,1-Dichloroethane	5.105	63	188877	4344.30 ug/L	99
5] cis-1,2-Dichloroethene	6.094	61	200211	4362.57 ug/L	99
6] Chloroform	6.664	83	206722	4400.85 ug/L	100
7] 1,1,1-Trichloroethane	6.919	97	222492	4361.45 ug/L	99
8] Carbon tetrachloride	7.187	117	210347	4380.95 ug/L	100
9] Benzene	7.515	78	543380	4224.52 ug/L	99
10] 1,2-Dichloroethane	7.552	62	201688	4392.50 ug/L	98
11] Trichloroethene	8.569	130	168424	4348.96 ug/L	93
13] Toluene	10.571	91	766745	4058.14 ug/L	99
14] 1,1,2-Trichloroethane	11.222	97	175664	4266.80 ug/L	97
15] Tetrachloroethene	11.421	166	233305	4266.83 ug/L	100
16] Chlorobenzene	12.757	112	577755	4270.56 ug/L	93
17] 1,1,1,2-Tetrachloroethane	12.908	131	208187	4294.60 ug/L	100
18] Ethylbenzene	12.964	91	952897	4143.40 ug/L	98
19] m&p-Xylene	13.162	91	1459415	8119.44 ug/L	97
20] o-Xylene	13.774	91	798994	4160.72 ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.873	83	358838	4216.30 ug/L	100
22] 1,3,5-Trimethylbenzene	15.340	105	853826	4177.31 ug/L	97
23] 1,2,4-Trimethylbenzene	15.896	105	851500	4010.73 ug/L	96
24] Naphthalene	17.902	128	1385206	4128.17 ug/L	100
25) 2-Fluorotoluene SCAN	10.969	109	369181	5002.63 ug/L	96
26) 1,1-Dichloroethene SCAN	3.095	61	79153	5050.47 ug/L #	26
27) trans-1,2-Dichloroethe...	4.408	61	82682	4263.38 ug/L	86
28) 1,1-Dichloroethane SCAN	5.111	63	103619	4616.73 ug/L	95
29) cis-1,2-Dichloroethene...	6.093	61	108450	4509.94 ug/L #	76
30) Chloroform SCAN	6.662	83	116757	4476.50 ug/L	95
31) 1,1,1-Trichloroethane ...	6.918	97	110368	4643.51 ug/L	93
32) Carbon tetrachloride SCAN	7.185	117	106486	4295.03 ug/L	86
33) Benzene SCAN	7.514	78	297664	4548.46 ug/L	96
34) 1,2-Dichloroethane SCAN	7.562	62	107394	4444.21 ug/L	98
35) Trichloroethene SCAN	8.568	130	79510	4421.13 ug/L	85
36) Toluene-d8 SCAN	10.475	98	338745	4693.60 ug/L	93
37) Toluene SCAN	10.580	91	401544	4344.47 ug/L	99
38) 1,1,2-Trichloroethane ...	11.231	97	88219	4252.37 ug/L	89
39) Tetrachloroethene SCAN	11.430	166	104871	4722.81 ug/L	94
40) Chlorobenzene SCAN	12.764	112	279082	4418.85 ug/L	91
41) 1,1,1,2-Tetrachloroeth...	12.915	131	96758	4139.72 ug/L	95
42) Ethylbenzene SCAN	13.161	91	746698	4434.47 ug/L	90
43) m&p-Xylene SCAN	13.161	91	746698	4434.47 ug/L	91
44) o-Xylene SCAN	13.781	91	405263	4496.31 ug/L	96
45) 1,1,2,2-Tetrachloroeth...	14.875	83	198460	4515.61 ug/L	95
46) 1,3,5-Trimethylbenzene...	15.343	105	412807	4345.78 ug/L	99
47) 1,2,4-Trimethylbenzene...	15.899	105	420213	4323.35 ug/L	94
48) Naphthalene SCAN	17.901	128	615008	4181.64 ug/L	99

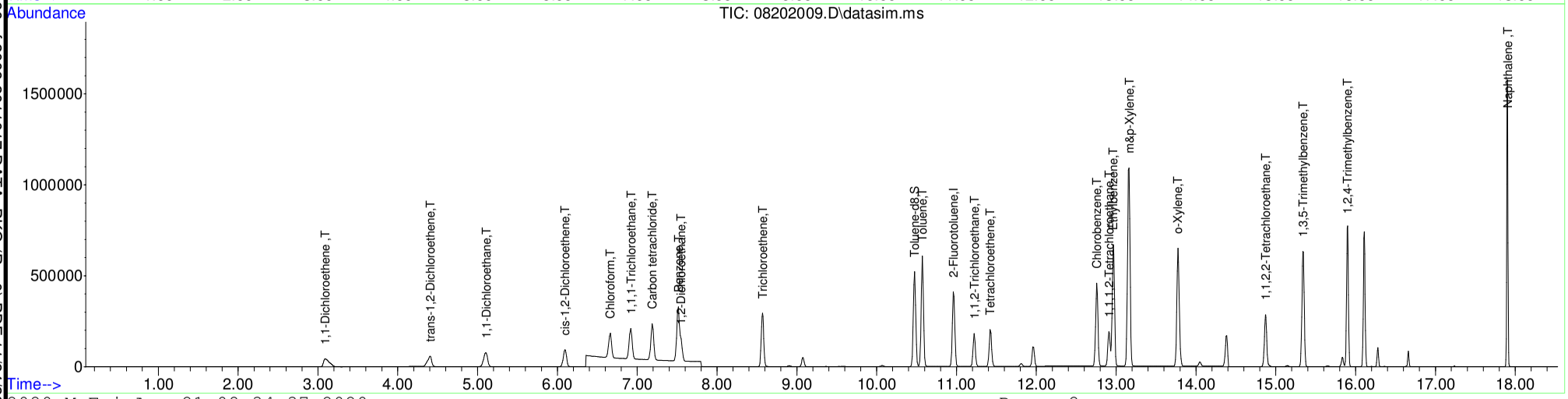
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202009.D
Acq On : 20 Aug 2020 17:49
InstName : AG5975C
Operator : TD
Sample : S20H039-SCV1
Misc : 2030074 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 08:34:36 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration





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SEQUENCE

S20K066

Sequence Date: 11/17/2020

Instrument: AG5975CV

Sequence Analyses:

VOCs, Passive Samplers

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B20K062	SEQUENCE #:	S20K066 11/17/20
BATCH #:		ANALYSIS:	VOA Passive Air. R21S04

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
DOCUMENTATION	ANALYST: Bench sheet(s) attached? REVIEWER: Bench sheet(s) reviewed?	☐	Y	Y	
	ANALYST: Sequence log(s) attached? REVIEWER: Sequence log(s) reviewed?	☐	Y	Y	
	ANALYST: Every run has a PDF in LIMS? REVIEWER: Every PDF reviewed?	☐	Y	Y	
INITIAL CALIBRATION	Date of Initial Calibration used: If applicable, note date of "Last Update" in Comments.	Mon Nov 16 10:20:51 2020			RT UPDATED ONLY
	Initial Calibration ID (LIMS number):	2008017			
	ICAL within QC criteria?	✔			
	SCV within QC criteria?	✔			
INSTRUMENT / QC CHECKS	Tune or degradation checks within QC criteria?	☐	Y	Y	
	CCV(s) within QC criteria?	☐	Y	Y	
	QLS(s) within QC criteria?	☐	Y	Y	
	CB(s) or storage blank(s) within QC criteria?	✔			
	Other instrument checks within QC criteria? Specify if applicable.	✔			
BATCH QCs	Method blanks < 1/2 QL?	☐	Y	Y	
	LCS(s) or SRM(s) within QC criteria?	☐	Y	Y	
	MSs/MSDs and/or DUPs within QC criteria?	✔			
	Other method-specific QCs within QC criteria? Specify if applicable.	✔			

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B20K062	SEQUENCE #:	S20K066 11/17/20
BATCH #:		ANALYSIS:	VOA Passive Air. R21S04

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
IS / SS	Internal standards within QC criteria?	☐	Y	Y	
	Surrogates within QC criteria?	☐	Y	Y	
SAMPLE DATA	Were samples prepared & analyzed within holding time?	☐	Y	Y	
	If samples need to be re-run, were RE(s) made in LIMS?	☐	Y	Y	
	Do any samples need to be re-digested or re-extracted?	✔			
	Were all data qualifiers appropriately applied?	☐	Y	Y	
	Are problems, anomalies, discrepancies documented in LIMS? Specify if applicable.	✔			
MANUAL INT	Were manual integrations performed and documented? Specify if applicable.	☐	Y	Y	

APPROVALS	ANALYST INITIALS & DATE:	TD 11/23/20
	REVIEWED BY:	Rajabi, Ziyad Digitally signed by Rajabi, Ziyad Date: 2020.11.23 15:50:52 -08'00' SIGN HERE

COMMENTS

Custom analyte list.

Injection Log

Operator: TD
Directory: C:\msdchem\1\Ravioli Data\2020\111720\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	11172001.D	1	S20K066-IBL1		17 Nov 2020 8:11
2	11172002.D	1	S20K066-TUN1	BFB 2040028	17 Nov 2020 8:32
3	11172003.D	1	S20K066-CCV1	2030070 5 mg/L	17 Nov 2020 8:42
4	11172004.D	1	S20K066-CRL1	2030073 0.05 mg/L	17 Nov 2020 9:05
5	11172005.D	1	B20K062-BLK1		17 Nov 2020 9:29
6	11172006.D	1	B20K062-BS1		17 Nov 2020 9:52
7	11172007.D	1	B20K062-BSD1		17 Nov 2020 10:16
8	11172008.D	1	B20K062-MRL1		17 Nov 2020 10:40
9	11172009.D	1	2011016-18RE1	RA for LOW SURR	17 Nov 2020 11:03
10	11172010.D	1	2011016-22RE1	RA for LOW SURR	17 Nov 2020 11:27
11	11172011.D	1	2011016-26		17 Nov 2020 11:51
12	11172012.D	1	2011016-27		17 Nov 2020 12:14
13	11172013.D	1	2011017-01		17 Nov 2020 12:38
14	11172014.D	1	2011017-03		17 Nov 2020 13:02
15	11172015.D	1	2011017-04		17 Nov 2020 13:25
16	11172016.D	1	2011017-05		17 Nov 2020 13:49
17	11172017.D	1	2011017-06		17 Nov 2020 14:13
18	11172018.D	1	2011017-07		17 Nov 2020 14:36
19	11172019.D	1	2011017-08		17 Nov 2020 15:00
20	11172020.D	1	2011017-09		17 Nov 2020 15:24
21	11172021.D	1	2011017-10		17 Nov 2020 15:47
22	11172022.D	1	2011017-11		17 Nov 2020 16:11
23	11172023.D	1	2011017-12		17 Nov 2020 16:35
24	11172024.D	1	2011017-13		17 Nov 2020 16:58
25	11172025.D	1	2011017-14		17 Nov 2020 17:22
26	11172026.D	1	2011017-15		17 Nov 2020 17:46
27	11172027.D	1	2011017-16		17 Nov 2020 18:09
28	11172028.D	1	2011017-17		17 Nov 2020 18:33
29	11172029.D	1	2011017-18		17 Nov 2020 18:57
30	11172030.D	1	2011016-14RE1	RA for LOW SURR	17 Nov 2020 19:20
1	11172031.D	1	IB		17 Nov 2020 19:44
1	11172032.D	1	IB		17 Nov 2020 20:08
1	11172033.D	1	IB		17 Nov 2020 20:31

GC/MS QA-QC Check Report

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Tune File : C:\msdchem\1\Ravioli Data\2020\111720\11172002.D
Tune Time : 17 Nov 2020 8:32

Daily Calibration File : C:\msdchem\1\Ravioli Data\2020\111720\11172003.D

536664

File	Sample	Surrogate Recovery %	Internal Standard Responses	
11172003.D	S20K066-CC	95	536664	
11172004.D	S20K066-CR	1*	604274	
11172005.D	B20K062-BL	88	693191	
11172006.D	B20K062-BS	89	580027	
11172007.D	B20K062-BS	89	579612	
11172008.D	B20K062-MR	88	542657	
11172009.D	2011016-18RE1	88	587590	RA for low SURR
11172010.D	2011016-22RE1	86	778009	RA for low SURR
11172011.D	2011016-26	89	558371	
11172012.D	2011016-27	88	715309	
11172013.D	2011017-01	86	606120	
11172014.D	2011017-03	88	582089	
11172015.D	2011017-04	88	615434	
11172016.D	2011017-05	88	603989	
11172017.D	2011017-06	88	585831	
11172018.D	2011017-07	88	549431	
11172019.D	2011017-08	89	344406	
11172020.D	2011017-09	87	508629	
11172021.D	2011017-10	87	544876	
11172022.D	2011017-11	87	610092	
11172023.D	2011017-12	88	606596	

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11172024.D
         2011017-13   87                      629655
--------------------------------------------------------------------------
11172025.D
         2011017-14   87                      634662
--------------------------------------------------------------------------
11172026.D
         2011017-15   88                      564401
--------------------------------------------------------------------------
11172027.D
         2011017-16   88                      552372
--------------------------------------------------------------------------
11172028.D
         2011017-17   87                      622355
--------------------------------------------------------------------------
11172029.D
         2011017-18   89                      558246
--------------------------------------------------------------------------
11172030.D
         2011016-14RE1   86                   863030   RA for low SURR
--------------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

    Created: Wed Nov 18 06:18:52 2020  AG5975C
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Analysis Sequence

S20K066

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2008017 Printed: 11/23/2020 10:32 am

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S20K066-IBL1	Instrument Blank	1	11/17/20 8:11		2030067	TD	11172001.D	
S20K066-TUN1	BFB	2	11/17/20 8:32	2040028		TD	11172002.D	
S20K066-CCV1	Calibration Check	3	11/17/20 8:42	2030070		TD	11172003.D	
S20K066-CRL1	Instrument RL Check	4	11/17/20 9:05	2030073		TD	11172004.D	
B20K062-BLK1	Blank	5	11/17/20 9:29			TD	11172005.D	
B20K062-BS1	LCS	6	11/17/20 9:52			TD	11172006.D	
B20K062-BSD1	LCS Dup	7	11/17/20 10:16			TD	11172007.D	
B20K062-MRL1	MRL Check	8	11/17/20 10:40			TD	11172008.D	
2011016-18RE1 A	6Sixty-B16-SC-1ft-7d	9	11/17/20 11:03			TD	11172009.D	
2011016-22RE1 A	6Sixty-D23-SC-1ft-7d	10	11/17/20 11:27			TD	11172010.D	
2011016-26 A	6Sixty-F36-SC-1ft-7d	11	11/17/20 11:51			TD	11172011.D	
2011016-27 A	6Sixty-F37-SC-1ft-7d	12	11/17/20 12:14			TD	11172012.D	
2011017-01 A	Classics-MH1-2ft-4d-R	13	11/17/20 12:38			TD	11172013.D	
2011017-03 A	Classics-MH3-2ft-4d	14	11/17/20 13:02			TD	11172014.D	
2011017-04 A	Classics-MH4-2ft-4d	15	11/17/20 13:25			TD	11172015.D	
2011017-05 A	Classics-A18-SC-1ft-7d	16	11/17/20 13:49			TD	11172016.D	
2011017-06 A	Classics-A19-SC-1ft-7d	17	11/17/20 14:13			TD	11172017.D	
2011017-07 A	Classics-B20-SC-1ft-7d	18	11/17/20 14:36			TD	11172018.D	
2011017-08 A	Classics-B21-SC-1ft-7d-R	19	11/17/20 15:00			TD	11172019.D	
2011017-09 A	Classics-C22-SC-1ft-7d	20	11/17/20 15:24			TD	11172020.D	
2011017-10 A	Classics-C23-SC-1ft-7d	21	11/17/20 15:47			TD	11172021.D	
2011017-11 A	Classics-D24-SC-1ft-7d	22	11/17/20 16:11			TD	11172022.D	

Page 197 of 2009 2011017 DATA_PKG (Rev0).PDF 11/24/20 15:01:25

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Analysis Sequence

S20K066

(Continued)

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2008017 Printed: 11/23/2020 10:32 am

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
2011017-12 A	Classics-D24-SC-1ft-7d-Dup	23	11/17/20 16:35			TD	11172023.D	
2011017-13 A	Classics-D25-SC-1ft-7d	24	11/17/20 16:58			TD	11172024.D	
2011017-14 A	Classics-E26-SC-1ft-7d	25	11/17/20 17:22			TD	11172025.D	
2011017-15 A	Classics-E27-SC-1ft-7d-R	26	11/17/20 17:46			TD	11172026.D	
2011017-16 A	Classics-F28-SC-1ft-7d	27	11/17/20 18:09			TD	11172027.D	
2011017-17 A	Classics-F29-SC-1ft-7d	28	11/17/20 18:33			TD	11172028.D	
2011017-18 A	Classics-G30-SC-1ft-7d	29	11/17/20 18:57			TD	11172029.D	
2011016-14RE1 A	6Sixty-B12-SC-1ft-7d-R	30	11/17/20 19:20			TD	11172030.D	

Sequence Comments

Reagents

Reagent #	Description

SEQUENCE DATA

S20K066

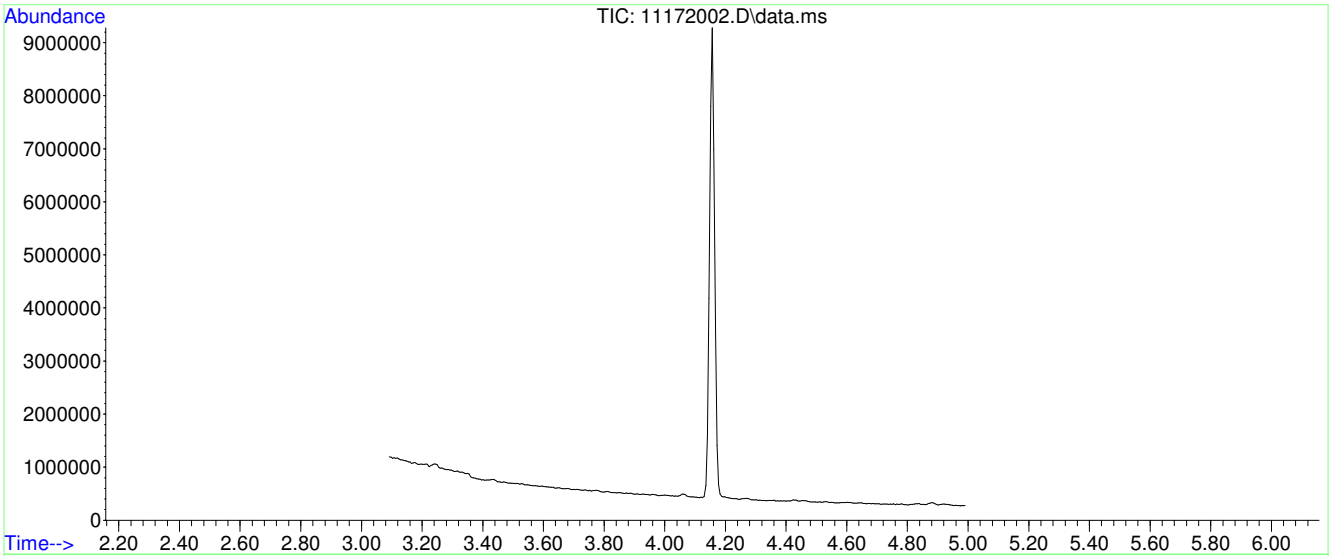
S20K066-TUN1

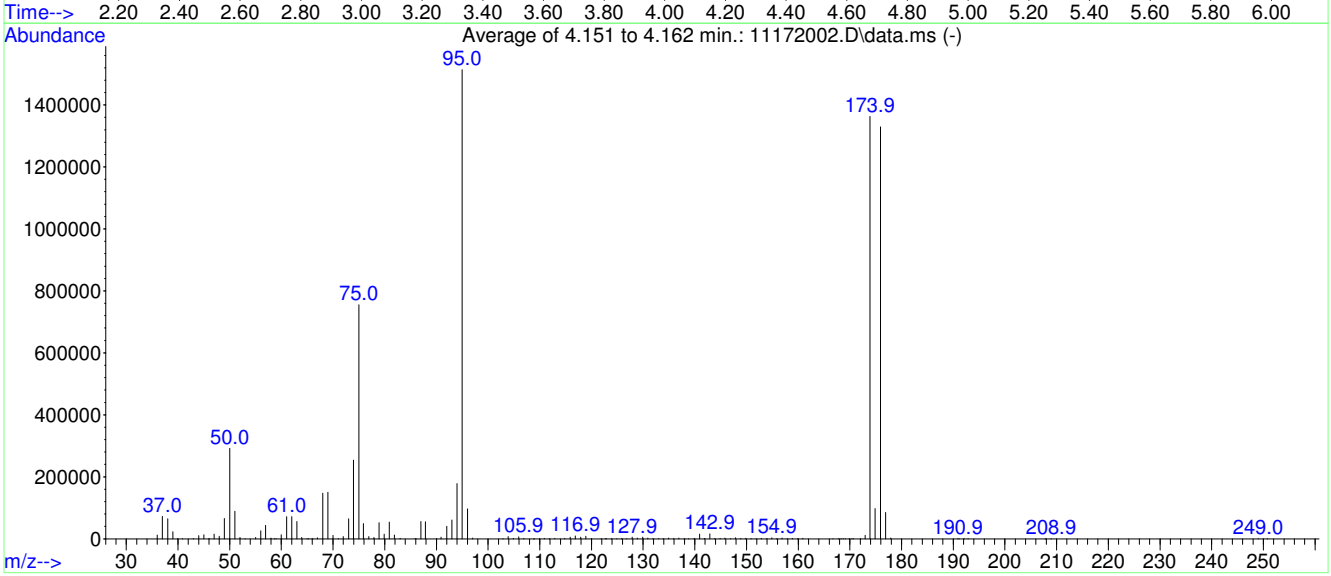
Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172002.D
Acq On : 17 Nov 2020 8:32
Operator : TD
Sample : S20K066-TUN1
Misc : BFB 2040028
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: Ravioli.P

Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Mon Nov 16 10:20:51 2020





AutoFind: Scans 203, 204, 205; Background Corrected with Scan 196

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	291627	PASS
75	95	30	60	49.9	755036	PASS
95	95	100	100	100.0	1513472	PASS
96	95	5	9	6.4	96376	PASS
173	174	0.00	2	0.8	10934	PASS
174	95	50	120	90.1	1363456	PASS
175	174	5	9	7.2	98101	PASS
176	174	95	101	97.5	1329664	PASS
177	176	5	9	6.4	84760	PASS

Average of 4.151 to 4.162 min.: 11172002.D\data.ms
S20K066-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	12207	48.00	8475	59.00	113	69.00	150376
37.00	72043	49.00	65163	60.00	13571	70.00	11697
38.00	64882	50.00	291627	61.00	71645	71.05	684
39.00	22788	51.00	89269	62.00	71445	71.95	7690
39.95	761	52.00	4000	63.00	55771	73.00	64683
40.90	288	53.00	119	63.95	4456	73.95	253665
43.00	847	55.00	3996	65.00	310	75.00	755036
44.00	9845	56.00	25701	65.30	68	75.90	49387
45.00	13175	56.95	43749	65.90	24	76.90	7310
46.00	1404	58.00	2024	66.95	3565	77.90	4811
47.00	15223	58.70	102	68.00	147413	78.90	51817

Average of 4.151 to 4.162 min.: 11172002.D\data.ms
S20K066-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.90	15146	93.00	61115	109.95	990	122.70	111
80.90	54325	94.00	177856	110.90	1403	122.95	265
81.90	12531	95.00	1.51347e+006	111.85	945	123.85	865
83.00	1388	96.00	96376	112.90	1399	124.90	633
85.90	827	97.00	2707	114.85	1860	125.85	443
86.05	910	102.90	770	115.90	5845	126.85	538
87.00	56000	103.90	6918	116.90	9399	127.90	5627
87.90	54885	104.85	1894	117.90	5864	128.85	2445
90.00	119	105.90	6739	118.90	8576	129.90	5291
90.90	5783	106.90	1555	120.00	523	130.90	2181
92.00	40723	108.80	50	121.90	241	131.90	321

Average of 4.151 to 4.162 min.: 11172002.D\data.ms
S20K066-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
133.00	87	143.85	827	154.90	3780	169.10	112
133.90	528	144.90	1442	155.85	489	169.85	537
134.90	2810	145.80	2296	156.90	2936	170.40	284
135.85	446	146.95	764	157.85	148	170.70	221
136.90	2586	147.85	3276	158.85	1870	172.10	613
137.90	62	148.90	1140	159.90	143	172.95	10934
138.80	540	149.85	1824	160.90	1784	173.90	1.36346e+006
139.85	1048	150.90	225	166.70	69	174.90	98101
140.90	14947	151.85	664	167.75	152	175.90	1.32966e+006
141.85	1741	152.85	1047	168.30	79	176.90	84760
142.90	15748	153.90	920	168.70	96	177.90	2270

Average of 4.151 to 4.162 min.: 11172002.D\data.ms
S20K066-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
190.90	245						
191.10	140						
192.10	87						
192.90	80						
207.80	53						
208.95	177						
249.00	194						
250.75	106						

Mass	69.00	Mass	218.90	Mass	501.90
Ab	408344	Ab	264879	Ab	7423
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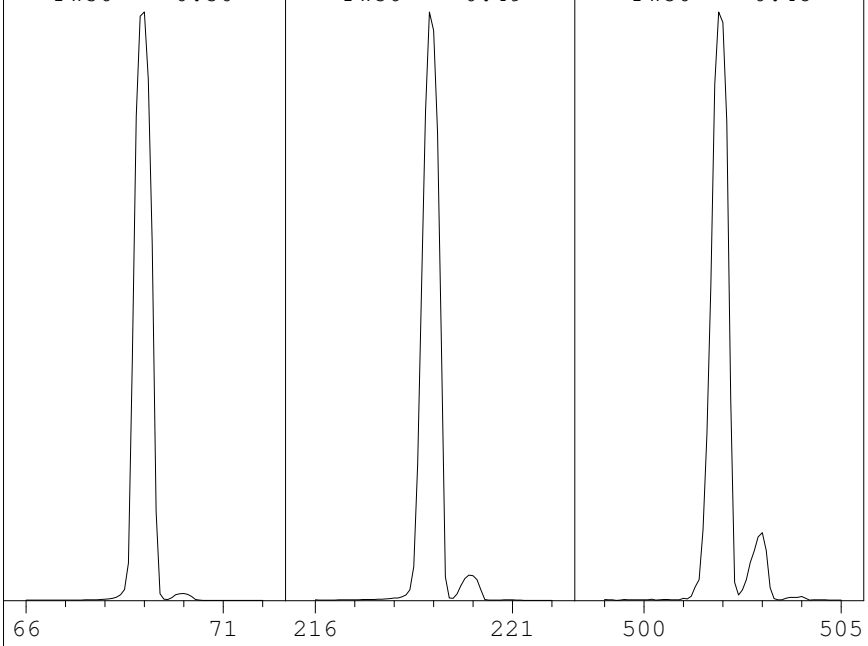

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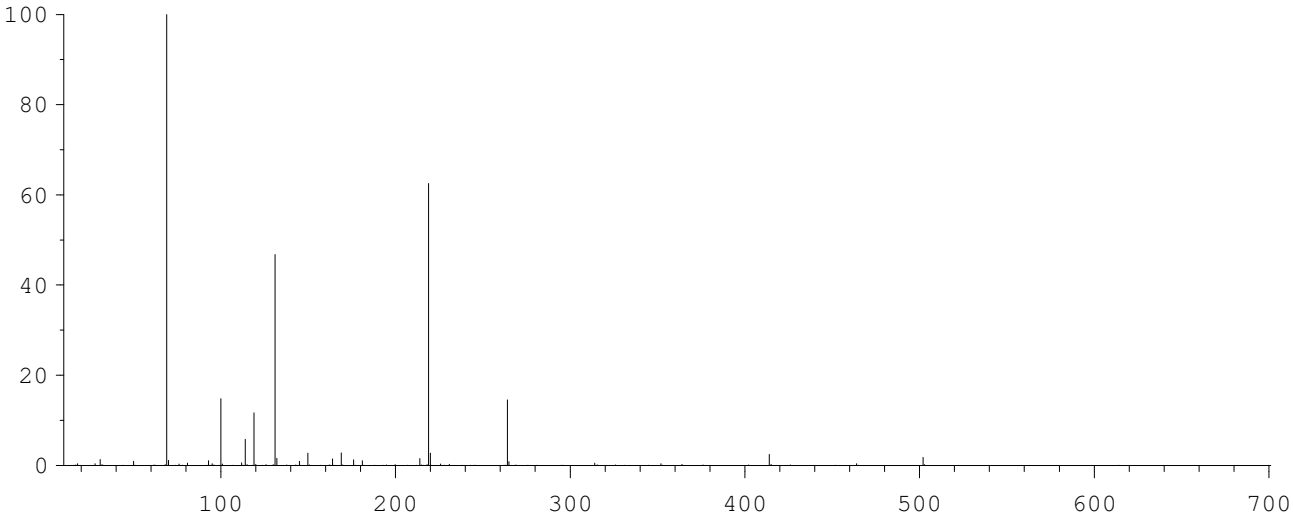
		MassOffs	-40
Emission	34.6	AmuGain	978
EIEnrgy	69.9	AmuOffs	127.94
Filament	1	Wid219	-0.003
		DC Pol	Pos
Repeller	29.79		
IonFcus	69.3	HEDEnab	On
EntLens	0.0	EMVolts	1329
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	230	Turbo Speed	100
MS Quad	150	HiVac	0.00e00

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10
106 peaks Base: 69.00 Abundance: 387648



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	387648	100.00	70.00	4210	1.09
219.00	242432	62.54	220.00	10419	4.30
502.00	6806	1.76	503.00	703	10.33

Air/Water Check: H20~0.38% N2~0.39% O2~0.18% CO2~0.04% N2/H2O~102.76%

Column(1) Flow: 1 Column(2): -1.79769e+308 ml/min. Interface Temp: 300

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 40364
Repeller Maximum 30 volts using ion 219; Gain Factor 0.40

MassGain Values(Samples): -1173(3) -1171(2) -1151(1) -1121(0) -1034(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	127.9	127.9	127.9	127.9	127.9	127.9	127.9
Entrance Lens Offset:	16.8	14.1	14.3	15.6	16.1	16.8	16.8
Target Abund(%):	1.0	100.0	45.0	55.0	2.5	2.0	
Actual Tune Abund(%):	0.9	100.0	46.7	62.5	2.4	1.8	

S20K066-CCV1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172003.D
Acq On : 17 Nov 2020 8:42
InstName : AG5975C
Operator : TD
Sample : S20K066-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 17 09:00:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.03min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	2-Fluorotoluene	1.000	1.000	0.0	80	0.00
2	T	1,1-Dichloroethene	0.200	0.210	-5.0	89	0.00
3	T	trans-1,2-Dichloroethene	0.231	0.231	0.0	85	0.01
4	T	1,1-Dichloroethane	0.287	0.286	0.3	85	0.00
5	T	cis-1,2-Dichloroethene	0.303	0.297	2.0	84	0.00
6	T	Chloroform	0.310	0.300	3.2	82	0.01
7	T	1,1,1-Trichloroethane	0.337	0.315	6.5	79	0.00
8	T	Carbon tetrachloride	0.317	0.293	7.6	78	0.01
9	T	Benzene	0.850	0.792	6.8	81	0.00
10	T	1,2-Dichloroethane	0.303	0.284	6.3	80	0.00
11	T	Trichloroethene	0.256	0.244	4.7	81	0.01
12	S	Toluene-d8	0.979	0.934	4.6	80	0.01
13	T	Toluene	1.248	1.123	10.0	80	0.01
14	T	1,1,2-Trichloroethane	0.272	0.255	6.3	79	0.01
15	T	Tetrachloroethene	0.361	0.336	6.9	77	0.00
16	T	Chlorobenzene	0.894	0.840	6.0	78	0.00
17	T	1,1,1,2-Tetrachloroethane	0.320	0.299	6.6	77	0.00
18	T	Ethylbenzene	1.519	1.397	8.0	78	0.00
19	T	m&p-Xylene	1.187	1.057	11.0	77	0.00
20	T	o-Xylene	1.268	1.143	9.9	76	0.00
21	T	1,1,2,2-Tetrachloroethane	0.562	0.524	6.8	78	0.00
22	T	1,3,5-Trimethylbenzene	1.350	1.245	7.8	76	0.00
23	T	1,2,4-Trimethylbenzene	1.402	1.254	10.6	76	0.00
24	T	Naphthalene	2.216	2.140	3.4	79	0.00
25		2-Fluorotoluene SCAN	0.487	0.461	5.3	75	0.00
26		1,1-Dichloroethene SCAN	0.104	0.110	-5.8	85	0.00
27		trans-1,2-Dichloroethene SC	0.128	0.123	3.9	76	0.01
28		1,1-Dichloroethane SCAN	0.148	0.157	-6.1	84	0.01
29		cis-1,2-Dichloroethene SCAN	0.159	0.154	3.1	77	0.01
30		Chloroform SCAN	0.172	0.165	4.1	76	0.00
31		1,1,1-Trichloroethane SCAN	0.157	0.156	0.6	79	0.00
32		Carbon tetrachloride SCAN	0.164	0.149	9.1	73	0.01
33		Benzene SCAN	0.432	0.441	-2.1	81	0.01
34		1,2-Dichloroethane SCAN	0.160	0.155	3.1	78	0.00
35		Trichloroethene SCAN	0.119	0.117	1.7	78	0.02
36		Toluene-d8 SCAN	0.477	0.450	5.7	75	0.01
37		Toluene SCAN	0.610	0.572	6.2	75	0.01
38		1,1,2-Trichloroethane SCAN	0.137	0.133	2.9	77	0.01
39		Tetrachloroethene SCAN	0.147	0.157	-6.8	86	0.00
40		Chlorobenzene SCAN	0.417	0.409	1.9	78	0.00
41		1,1,1,2-Tetrachloroethane S	0.154	0.129	16.2	66	0.00
42		Ethylbenzene SCAN	1.112	1.049	5.7	75	0.00
43		m&p-Xylene SCAN	1.112	1.049	5.7	75	0.00
44		o-Xylene SCAN	0.595	0.567	4.7	76	0.00
45		1,1,2,2-Tetrachloroethane S	0.290	0.288	0.7	79	0.00
46		1,3,5-Trimethylbenzene SCAN	0.627	0.568	9.4	72	0.00
47		1,2,4-Trimethylbenzene SCAN	0.642	0.582	9.3	72	0.00
48		Naphthalene SCAN	0.971	0.940	3.2	77	0.00

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172003.D
Acq On : 17 Nov 2020 8:42
InstName : AG5975C
Operator : TD
Sample : S20K066-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 17 09:00:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

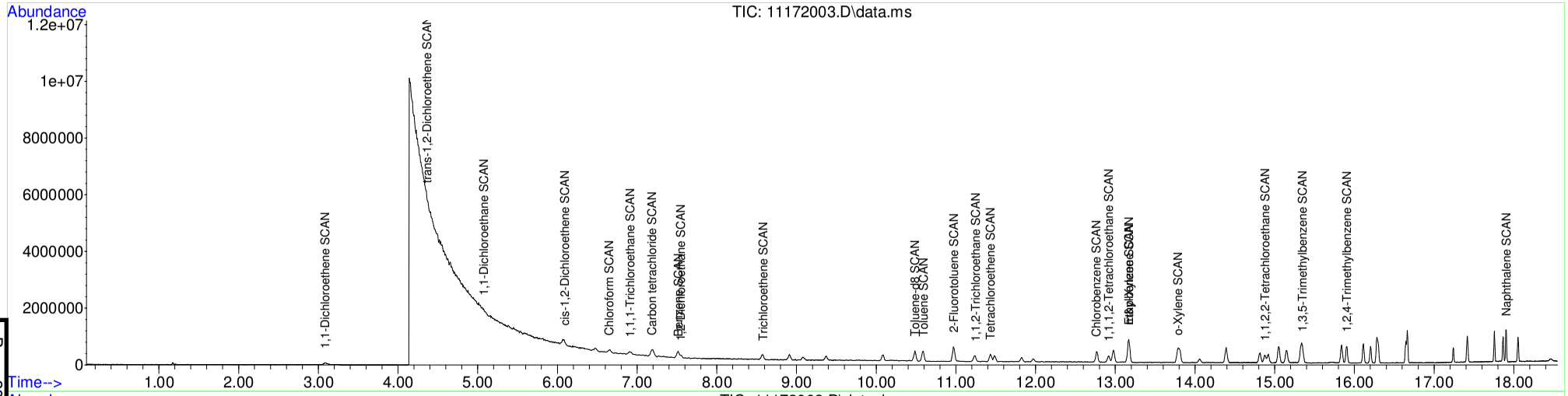
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	536664	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	501005	4768.85 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 95.38%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	112675	5257.85 ug/L	85
3] trans-1,2-Dichloroethene	4.356	61	123856	5002.38 ug/L	99
4] 1,1-Dichloroethane	5.072	63	153694	4986.71 ug/L	98
5] cis-1,2-Dichloroethene	6.081	61	159415	4900.04 ug/L	99
6] Chloroform	6.652	83	160832	4829.91 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	169046	4674.53 ug/L	100
8] Carbon tetrachloride	7.187	117	157216	4618.97 ug/L	100
9] Benzene	7.503	78	424993	4660.92 ug/L	98
10] 1,2-Dichloroethane	7.540	62	152463	4683.96 ug/L	99
11] Trichloroethene	8.575	130	130704	4760.88 ug/L	94
13] Toluene	10.582	91	602691	4499.74 ug/L	99
14] 1,1,2-Trichloroethane	11.232	97	136983	4693.56 ug/L	96
15] Tetrachloroethene	11.432	166	180128	4647.06 ug/L	100
16] Chlorobenzene	12.765	112	450603	4698.42 ug/L	94
17] 1,1,1,2-Tetrachloroethane	12.916	131	160497	4670.39 ug/L	99
18] Ethylbenzene	12.972	91	749676	4598.34 ug/L	98
19] m&p-Xylene	13.163	91	1134461	8903.34 ug/L	98
20] o-Xylene	13.782	91	613333	4505.45 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.877	83	281275	4662.09 ug/L	100
22] 1,3,5-Trimethylbenzene	15.345	105	668369	4612.76 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	672843	4470.63 ug/L	97
24] Naphthalene	17.903	128	1148606	4828.71 ug/L	100
25) 2-Fluorotoluene SCAN	10.969	109	247530	4731.54 ug/L	98
26) 1,1-Dichloroethene SCAN	3.081	61	59015	5311.82 ug/L	87
27) trans-1,2-Dichloroethe...	4.361	61	65820	4787.59 ug/L	85
28) 1,1-Dichloroethane SCAN	5.078	63	84307	5298.77 ug/L	94
29) cis-1,2-Dichloroethene...	6.086	61	82772	4855.58 ug/L #	78
30) Chloroform SCAN	6.650	83	88519	4787.50 ug/L	95
31) 1,1,1-Trichloroethane ...	6.906	97	83472	4954.05 ug/L	93
32) Carbon tetrachloride SCAN	7.186	117	79995	4551.48 ug/L	89
33) Benzene SCAN	7.514	78	236614	5100.30 ug/L	97
34) 1,2-Dichloroethane SCAN	7.550	62	83359	4866.12 ug/L	94
35) Trichloroethene SCAN	8.579	130	62589	4909.37 ug/L	90
36) Toluene-d8 SCAN	10.486	98	241436	4719.02 ug/L	96
37) Toluene SCAN	10.591	91	306940	4684.61 ug/L	96
38) 1,1,2-Trichloroethane ...	11.242	97	71458	4858.88 ug/L	95
39) Tetrachloroethene SCAN	11.431	166	84431	5363.69 ug/L	92
40) Chlorobenzene SCAN	12.764	112	219413	4900.68 ug/L	93
41) 1,1,1,2-Tetrachloroeth...	12.915	131	69077	4169.02 ug/L	95
42) Ethylbenzene SCAN	13.169	91	562699	4713.99 ug/L	92
43) m&p-Xylene SCAN	13.169	91	562699	4713.99 ug/L	93
44) o-Xylene SCAN	13.781	91	304367	4763.58 ug/L	97
45) 1,1,2,2-Tetrachloroeth...	14.875	83	154501	4958.96 ug/L	97
46) 1,3,5-Trimethylbenzene...	15.348	105	304633	4523.91 ug/L	99
47) 1,2,4-Trimethylbenzene...	15.904	105	312295	4532.44 ug/L	97
48) Naphthalene SCAN	17.905	128	504197	4835.95 ug/L	99

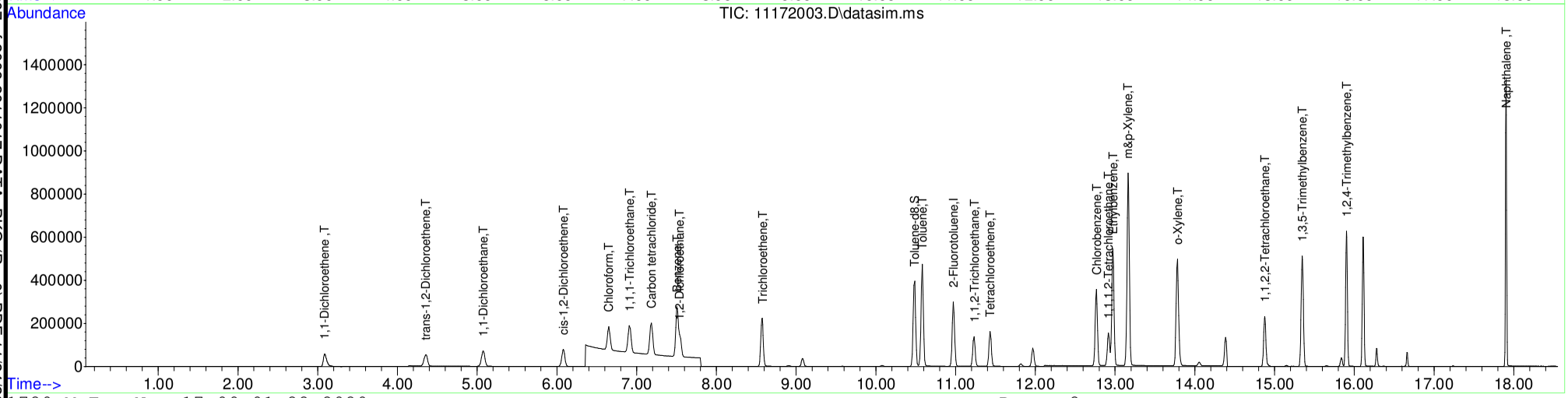
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172003.D
Acq On : 17 Nov 2020 8:42
InstName : AG5975C
Operator : TD
Sample : S20K066-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 17 09:00:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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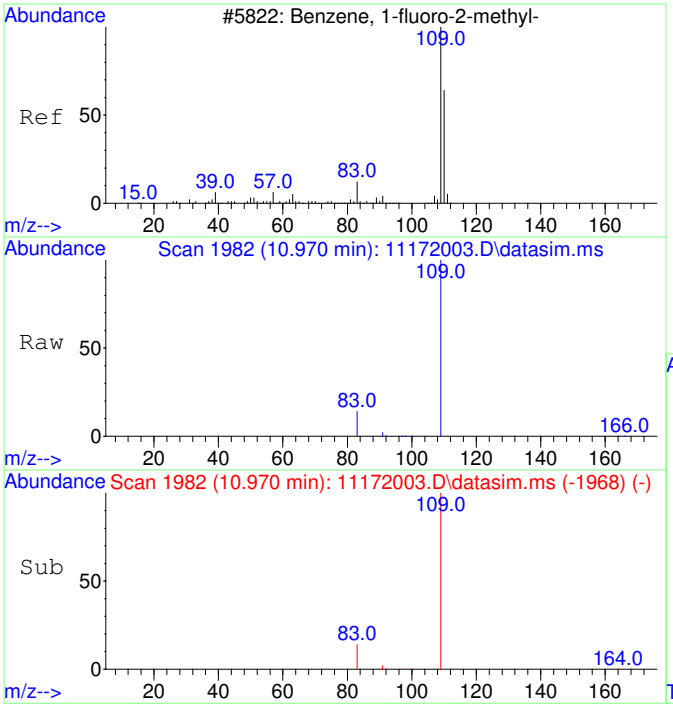
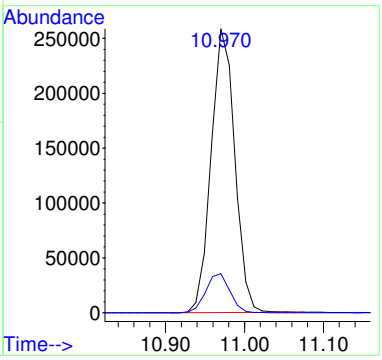
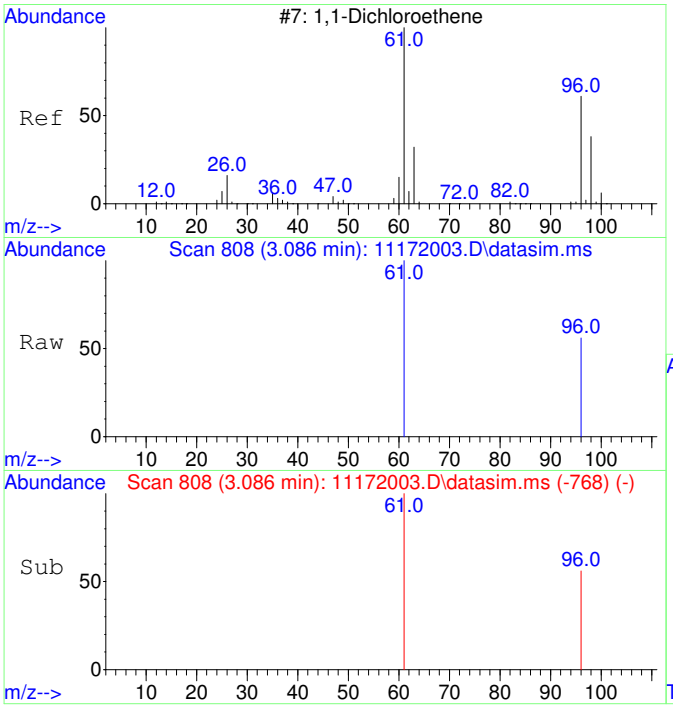


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:109 Resp: 536664

Ion	Ratio	Lower	Upper
109	100		
83	14.1	0.0	42.3

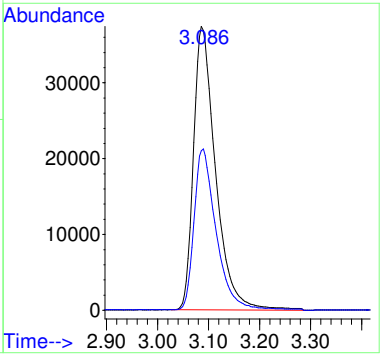


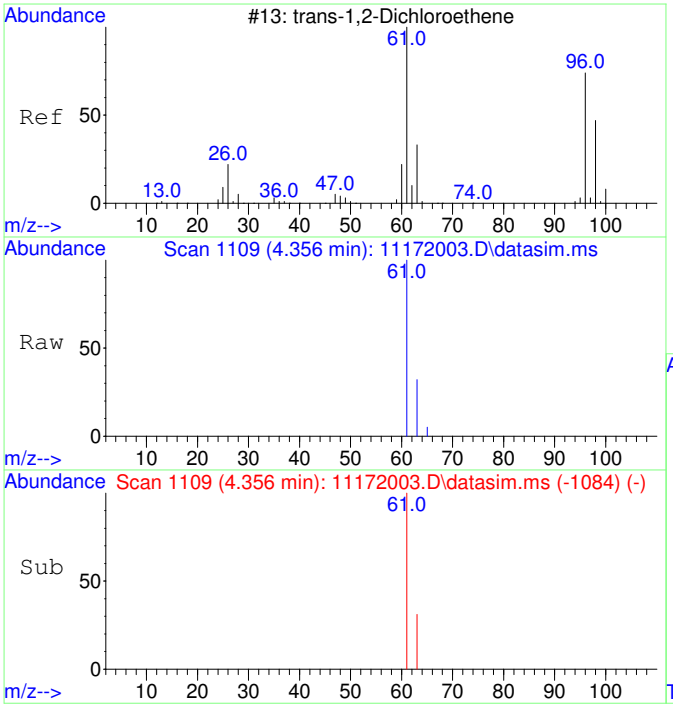


#2
1,1-Dichloroethene
Concen: 5257.85 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 61 Resp: 112675

Ion	Ratio	Lower	Upper
61	100		
96	55.1	37.2	97.2

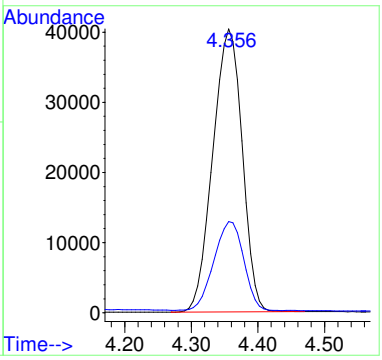


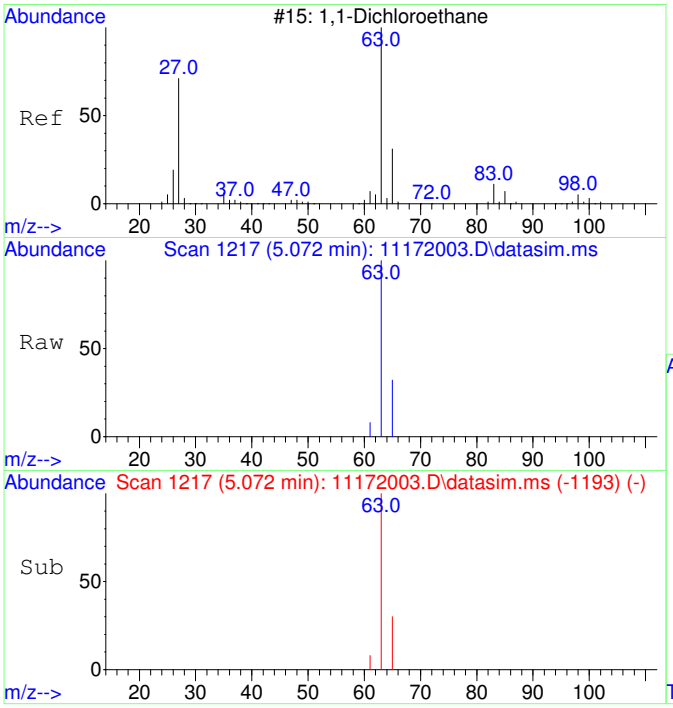


#3
trans-1,2-Dichloroethene
Concen: 5002.38 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 61 Resp: 123856

Ion	Ratio	Lower	Upper
61	100		
63	31.7	2.4	62.4

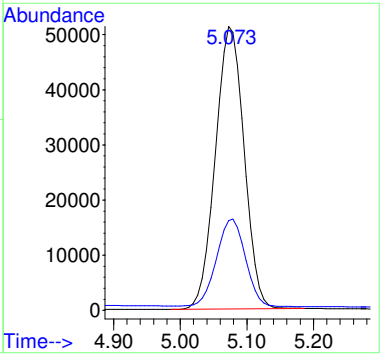


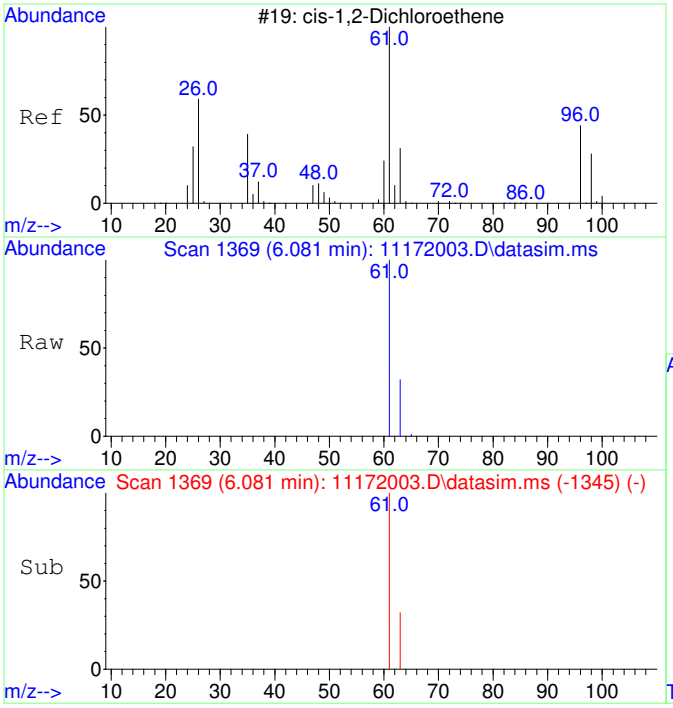


#4
1,1-Dichloroethane
Concen: 4986.71 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 63 Resp: 153694

Ion	Ratio	Lower	Upper
63	100		
65	30.9	1.8	61.8

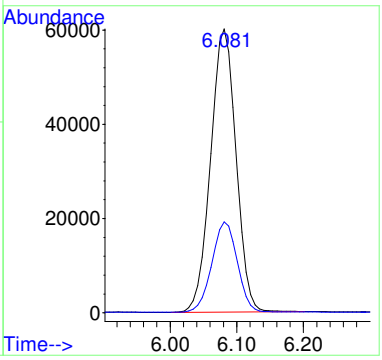


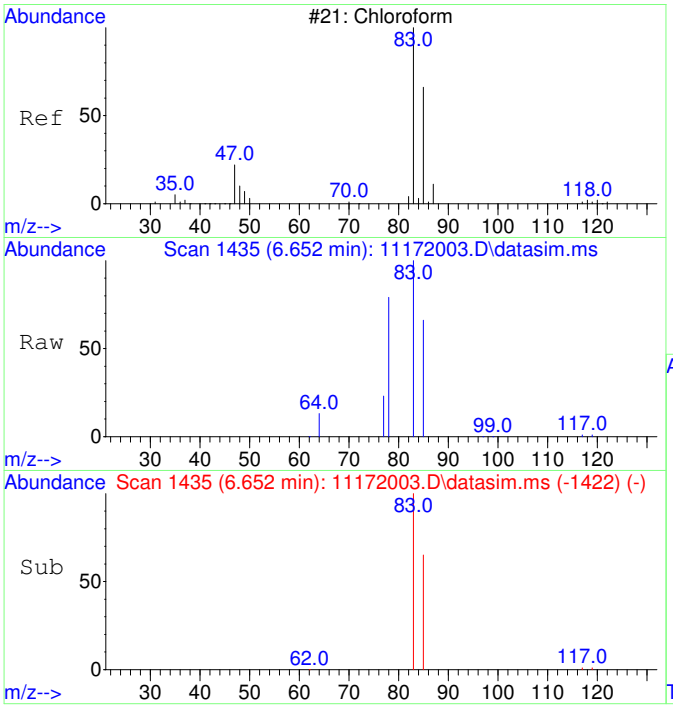


#5
cis-1,2-Dichloroethene
Concen: 4900.04 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 61 Resp: 159415

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

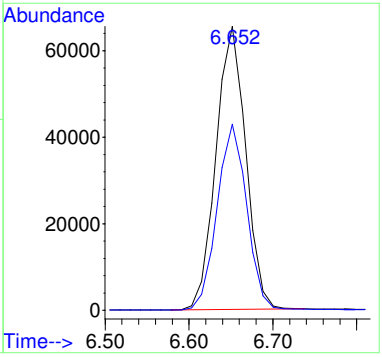


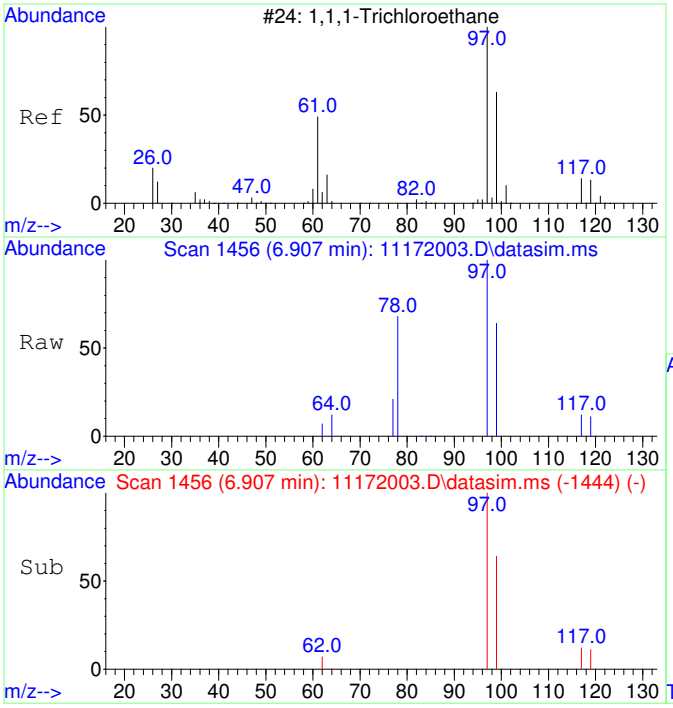


#6
Chloroform
Concen: 4829.91 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 83 Resp: 160832

Ion	Ratio	Lower	Upper
83	100		
85	64.9	35.1	95.1

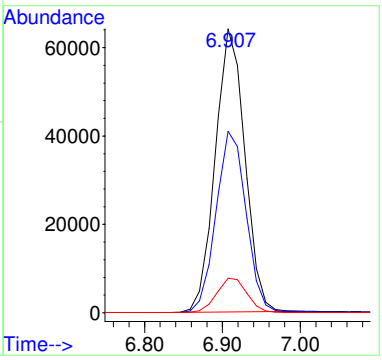


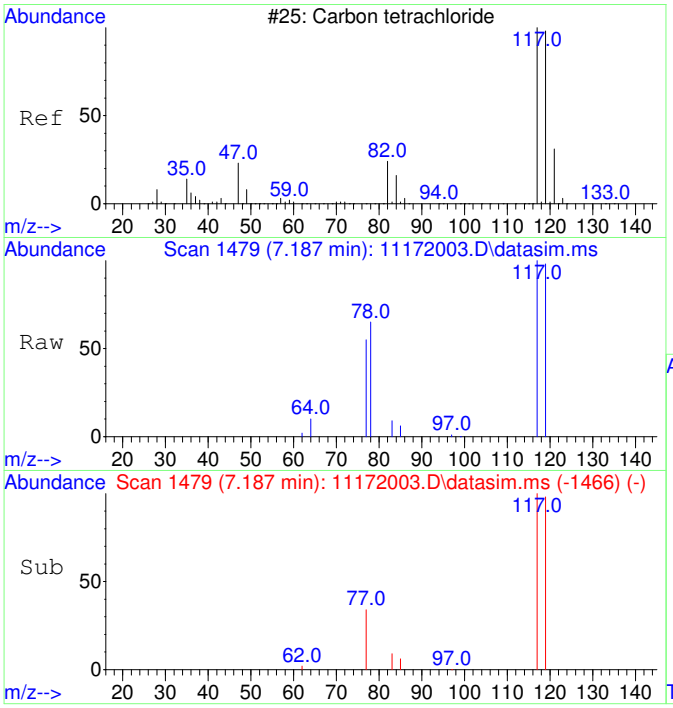


#7
1,1,1-Trichloroethane
Concen: 4674.53 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 97 Resp: 169046

Ion	Ratio	Lower	Upper
97	100		
99	64.6	34.6	94.6
117	12.4	0.0	43.2

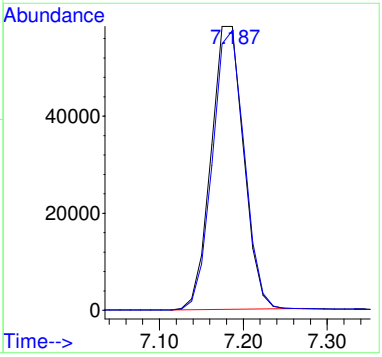


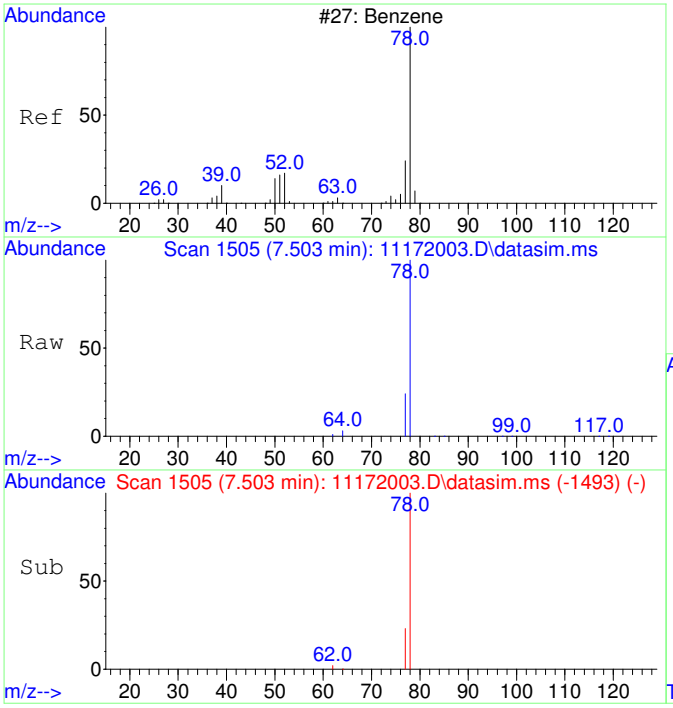


#8
Carbon tetrachloride
Concen: 4618.97 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:117 Resp: 157216

Ion	Ratio	Lower	Upper
117	100		
119	96.3	66.4	126.4

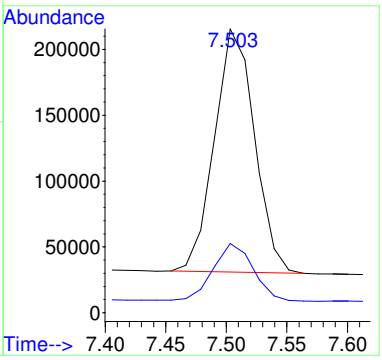


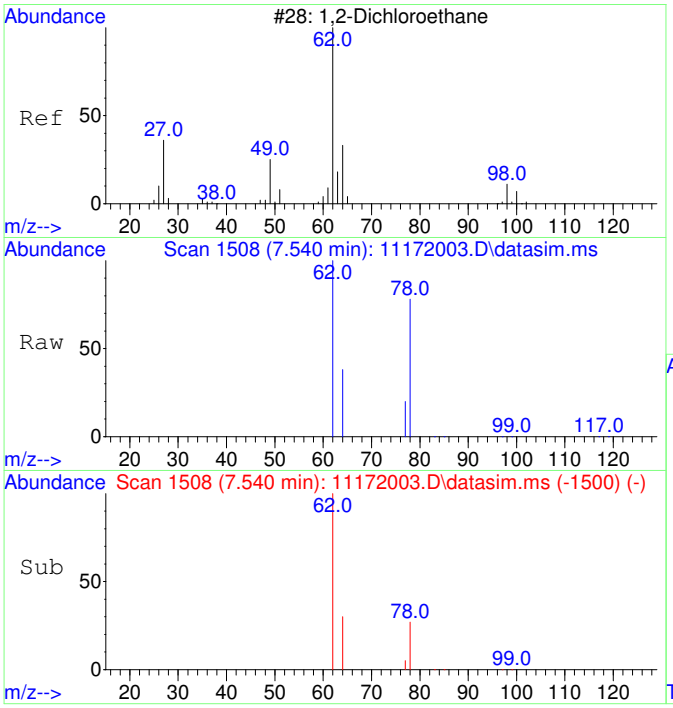


#9
Benzene
Concen: 4660.92 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 78 Resp: 424993

Ion	Ratio	Lower	Upper
78	100		
77	24.0	0.0	53.2

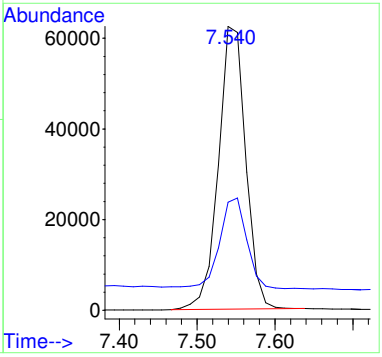


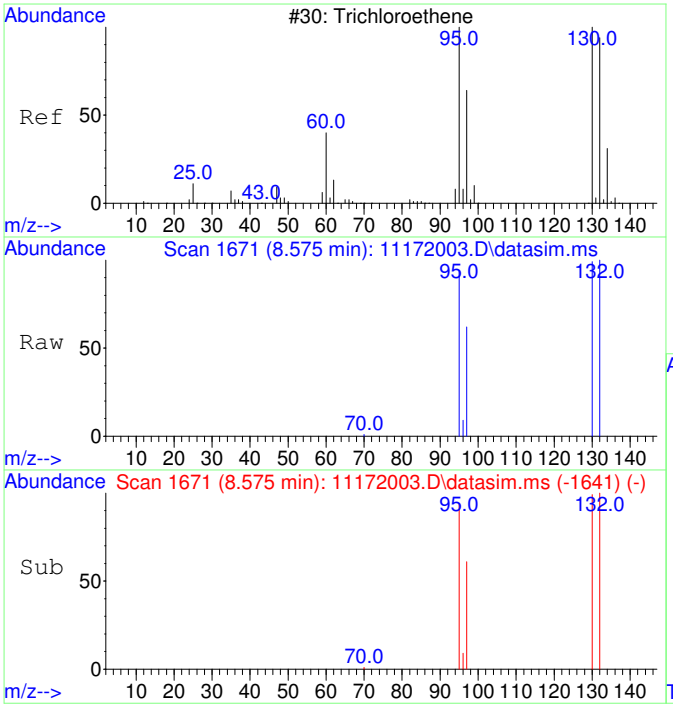


#10
1,2-Dichloroethane
Concen: 4683.96 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 62 Resp: 152463

Ion	Ratio	Lower	Upper
62	100		
64	32.0	2.3	62.3

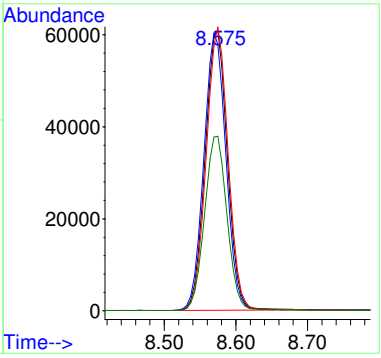


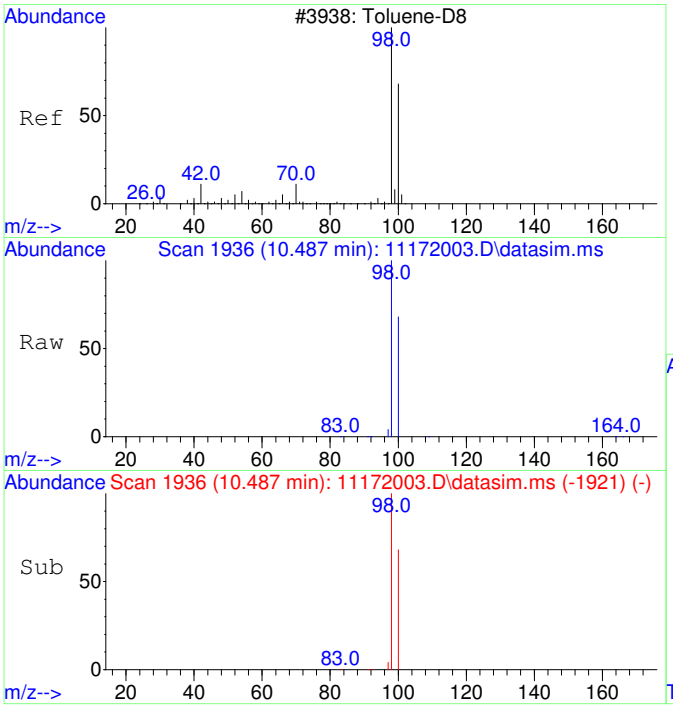


#11
Trichloroethene
Concen: 4760.88 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:130 Resp: 130704

Ion	Ratio	Lower	Upper
130	100		
95	98.5	60.7	120.7
132	99.6	76.0	116.0
97	62.8	38.6	78.6

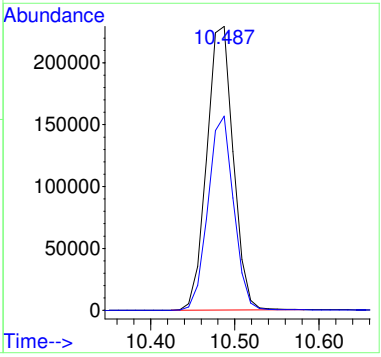


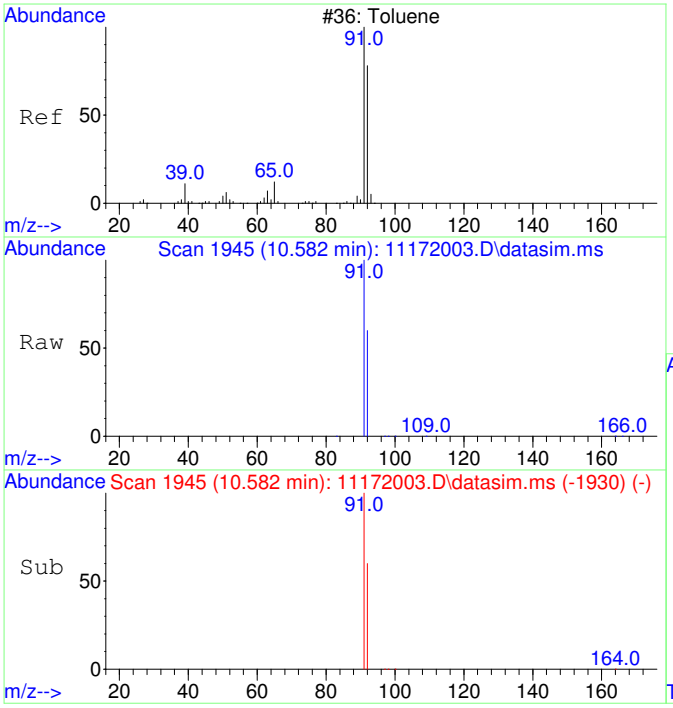


#12
Toluene-d8
Concen: 4768.85 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.011 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 98 Resp: 501005

Ion	Ratio	Lower	Upper
98	100		
100	66.2	37.1	97.1

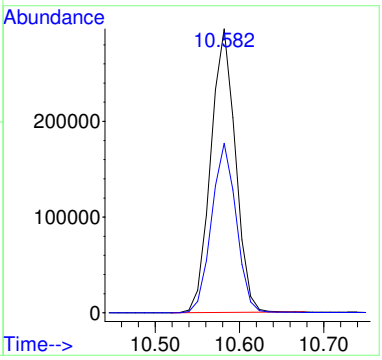


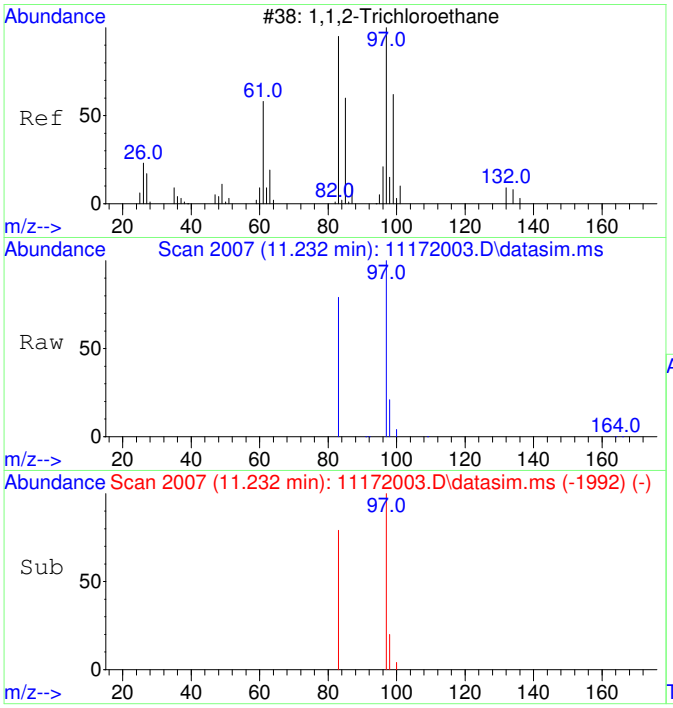


#13
Toluene
Concen: 4499.74 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 91 Resp: 602691

Ion	Ratio	Lower	Upper
91	100		
92	59.5	29.9	89.9

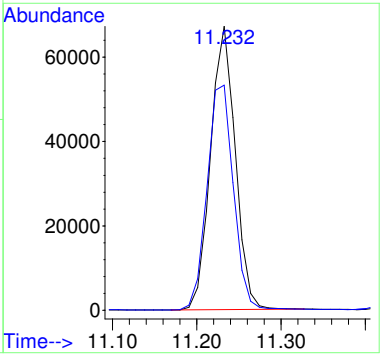


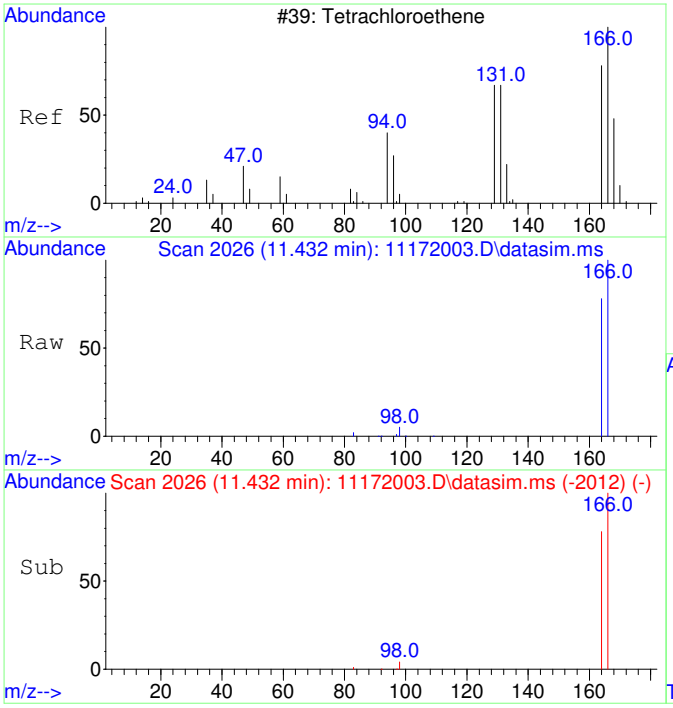


#14
1,1,2-Trichloroethane
Concen: 4693.56 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.011 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 97 Resp: 136983

Ion	Ratio	Lower	Upper
97	100		
83	84.4	51.2	111.2

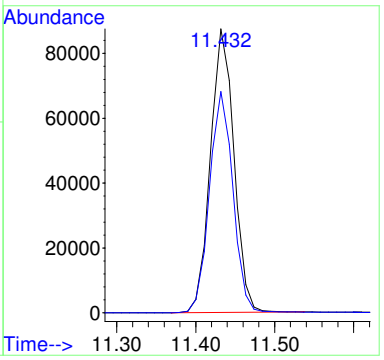


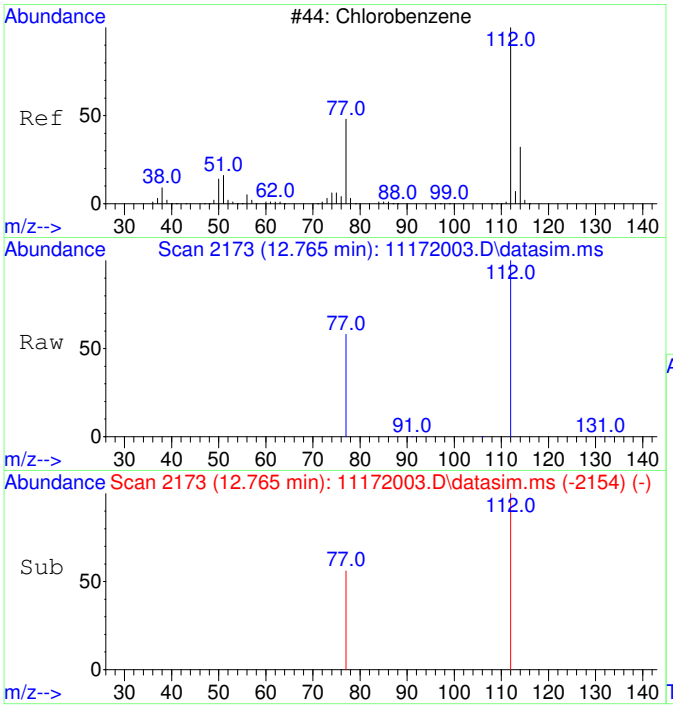


#15
Tetrachloroethene
Concen: 4647.06 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:166 Resp: 180128

Ion	Ratio	Lower	Upper
166	100		
164	77.5	47.8	107.8

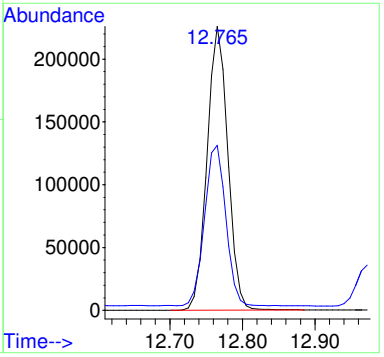


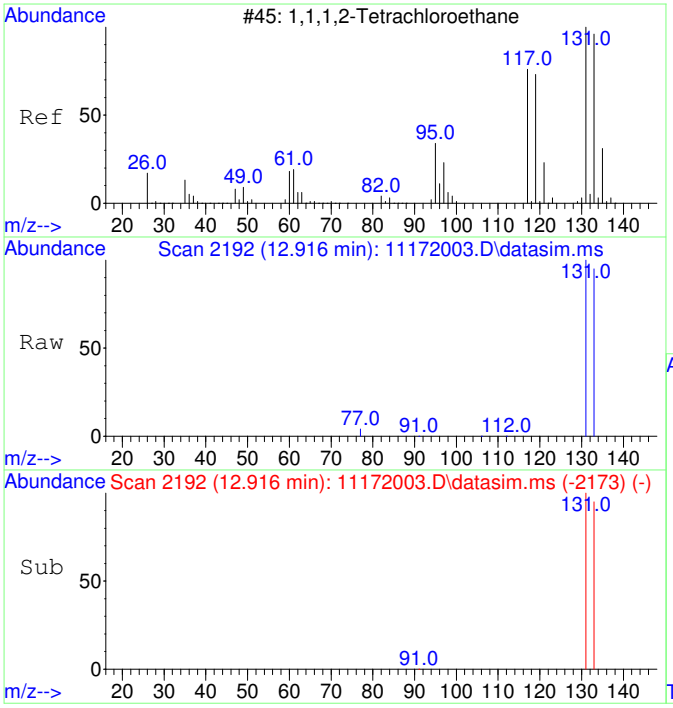


#16
Chlorobenzene
Concen: 4698.42 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:112 Resp: 450603

Ion	Ratio	Lower	Upper
112	100		
77	57.9	23.6	83.6

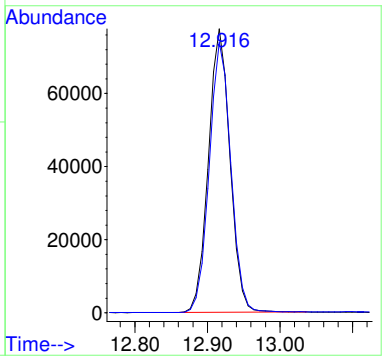


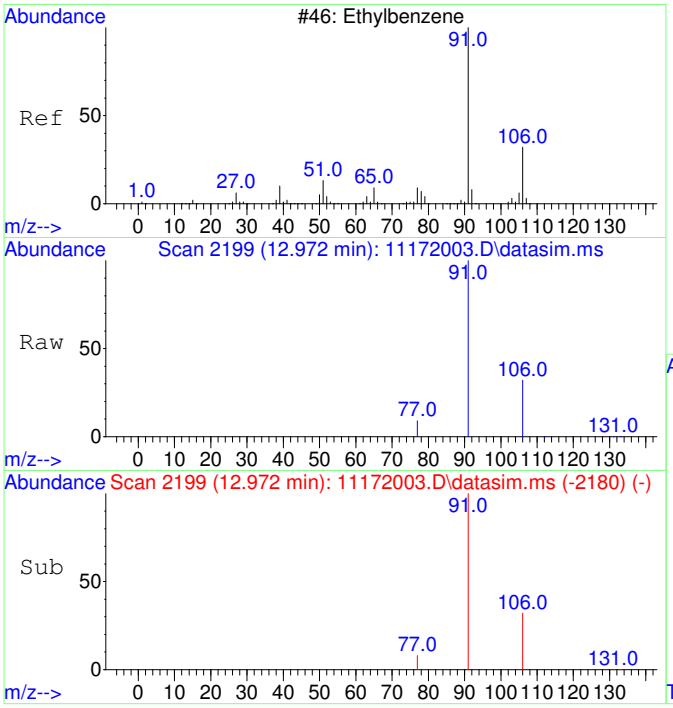


#17
1,1,1,2-Tetrachloroethane
Concen: 4670.39 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:131 Resp: 160497

Ion	Ratio	Lower	Upper
131	100		
133	95.3	66.3	126.3

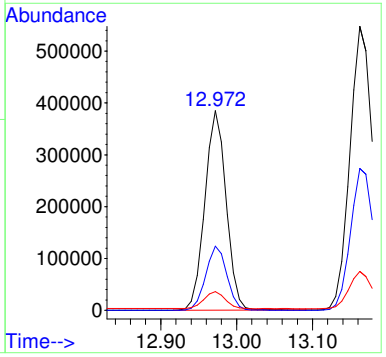


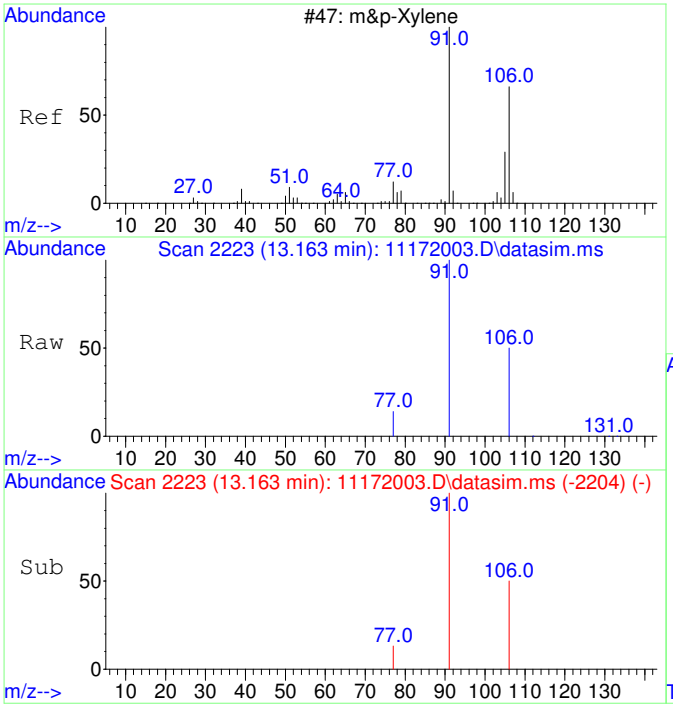


#18
Ethylbenzene
Concen: 4598.34 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 91 Resp: 749676

Ion	Ratio	Lower	Upper
91	100		
106	31.9	3.0	63.0
77	8.4	0.0	38.2

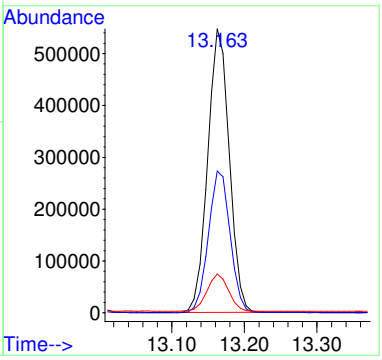


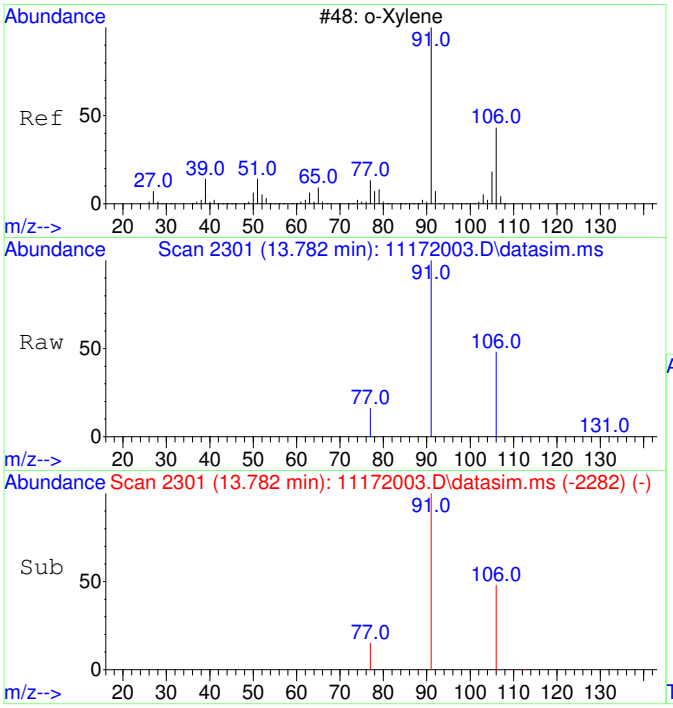


#19
m&p-Xylene
Concen: 8903.34 ug/L
RT: 13.163 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 91 Resp: 1134461

Ion	Ratio	Lower	Upper
91	100		
106	50.3	22.2	82.2
77	13.0	0.0	42.4

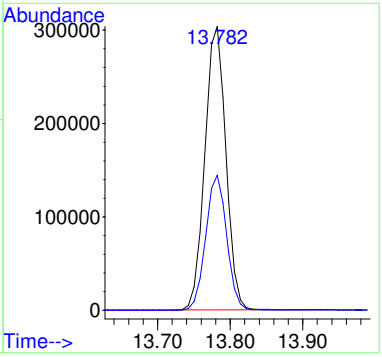


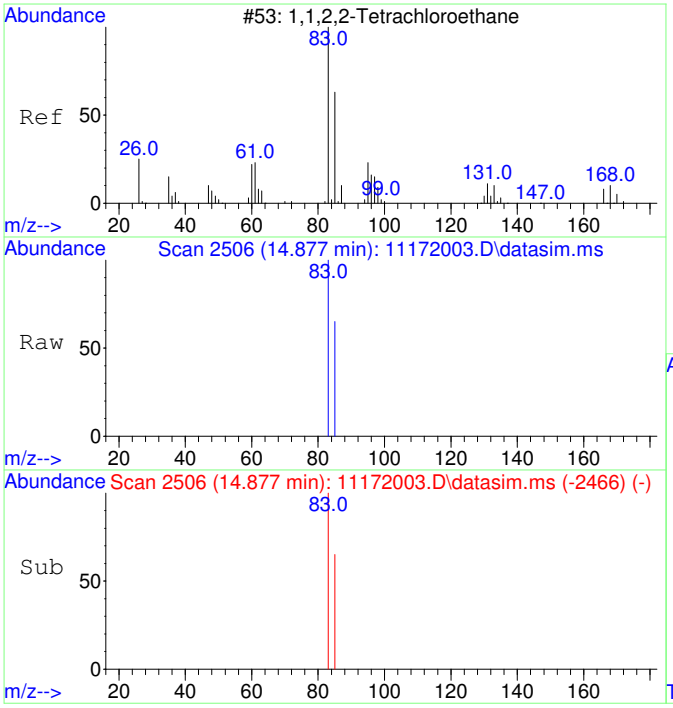


#20
o-Xylene
Concen: 4505.45 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 91 Resp: 613333

Ion	Ratio	Lower	Upper
91	100		
106	47.4	19.2	79.2

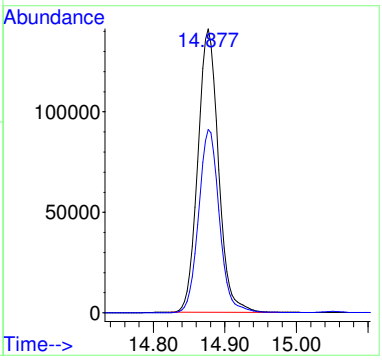


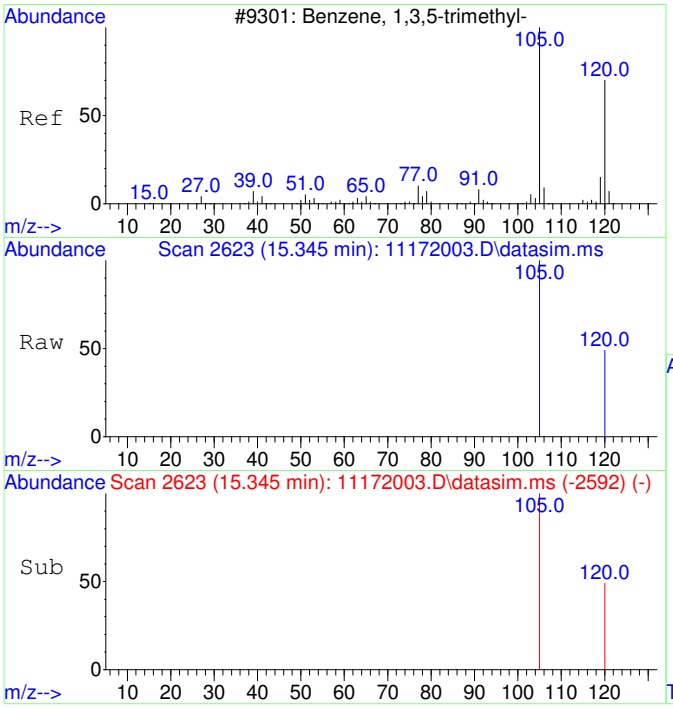


#21
1,1,2,2-Tetrachloroethane
Concen: 4662.09 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 83 Resp: 281275

Ion	Ratio	Lower	Upper
83	100		
85	65.0	34.8	94.8

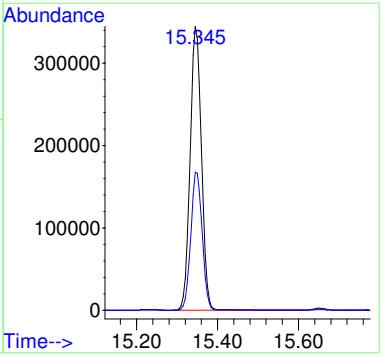


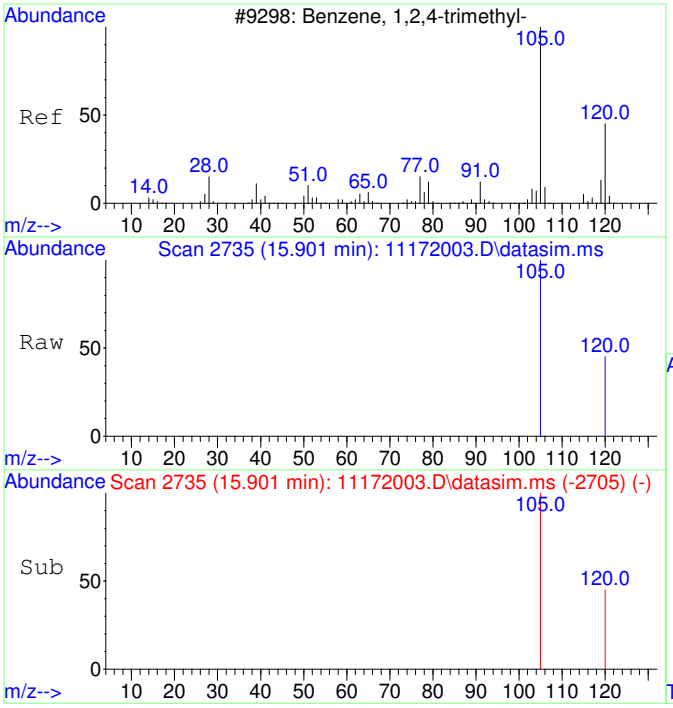


#22
1,3,5-Trimethylbenzene
Concen: 4612.76 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:105 Resp: 668369

Ion	Ratio	Lower	Upper
105	100		
120	48.9	21.1	81.1

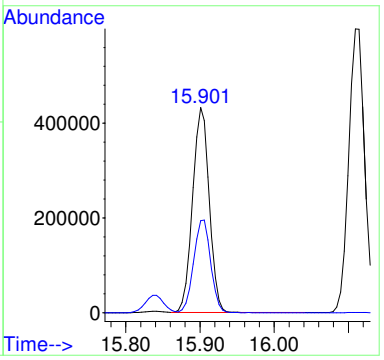


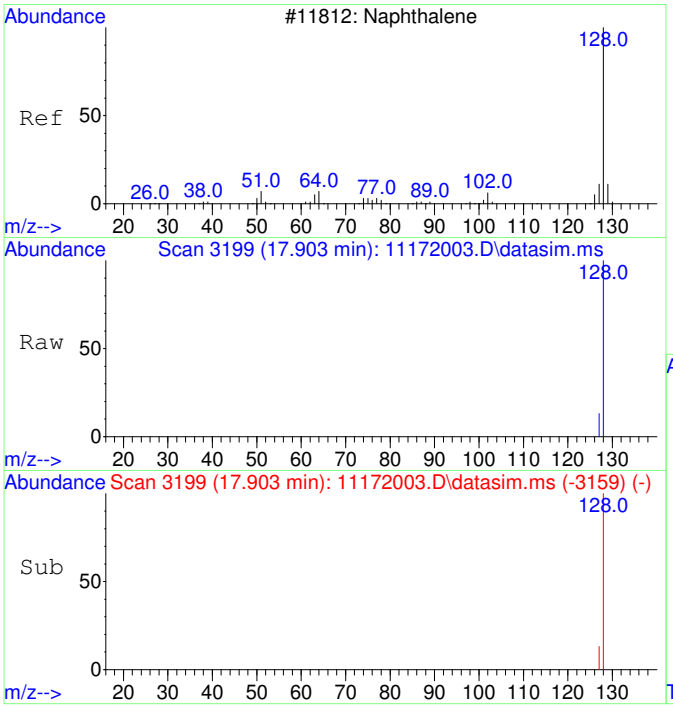


#23
1,2,4-Trimethylbenzene
Concen: 4470.63 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:105 Resp: 672843

Ion	Ratio	Lower	Upper
105	100		
120	45.2	17.2	77.2

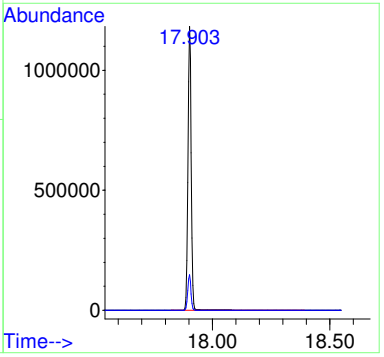


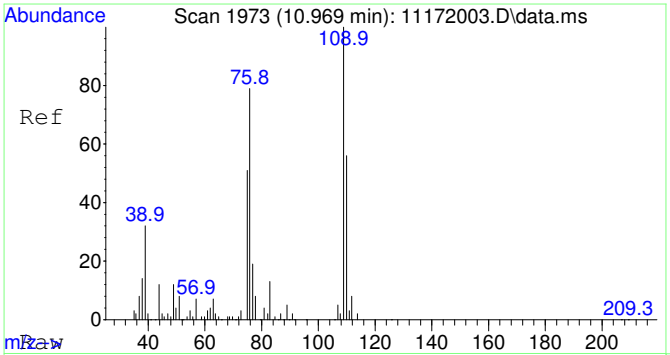


#24
Naphthalene
Concen: 4828.71 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:128 Resp: 1148606

Ion	Ratio	Lower	Upper
128	100		
127	12.4	0.0	42.5

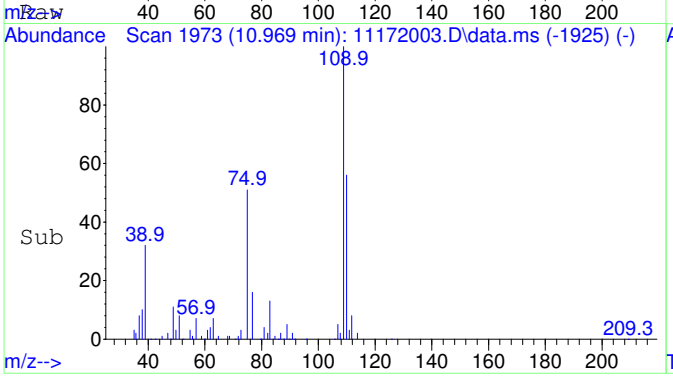


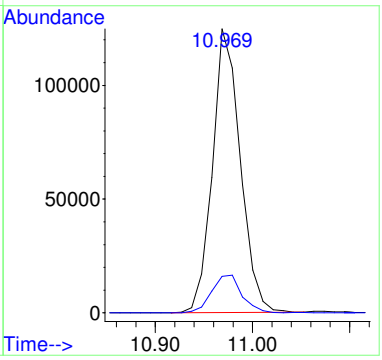


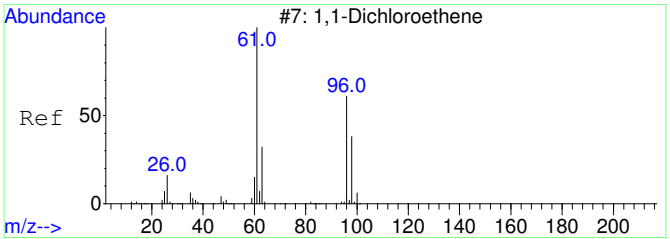
#25
2-Fluorotoluene SCAN
Concen: 4731.54 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:109 Resp: 247530

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	43.8



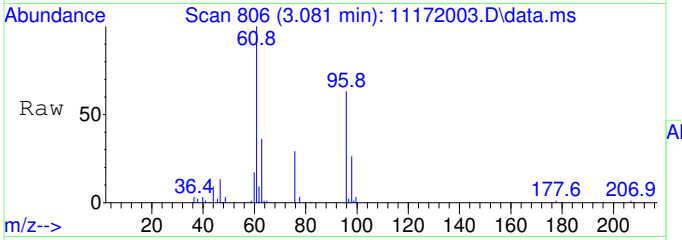


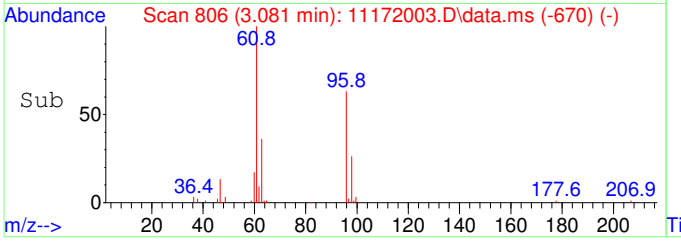


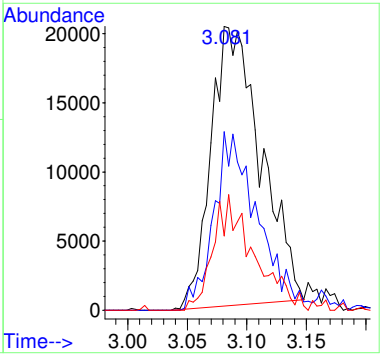
#26
1,1-Dichloroethene SCAN
Concen: 5311.82 ug/L
RT: 3.081 min Scan# 806
Delta R.T. 0.004 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

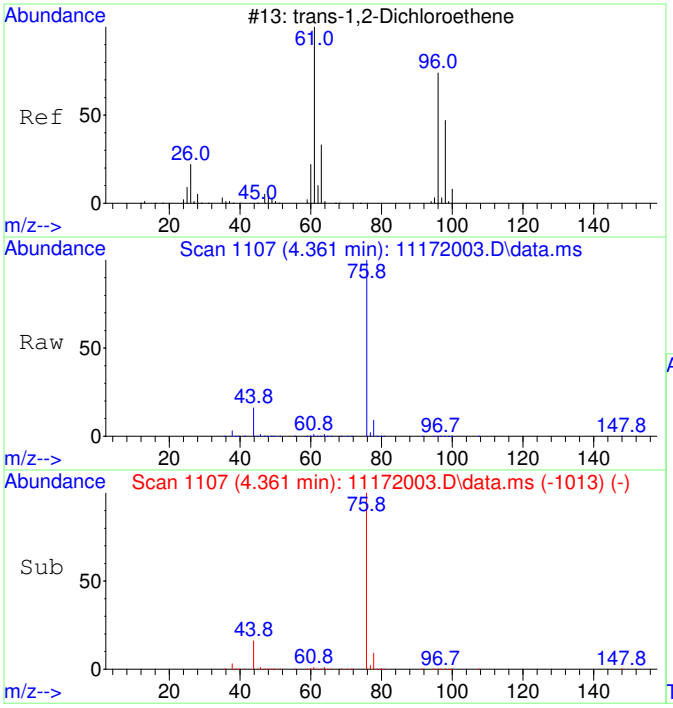
Tgt Ion: 61 Resp: 59015

Ion	Ratio	Lower	Upper
61	100		
96	52.8	33.1	93.1
98	33.4	11.2	71.2





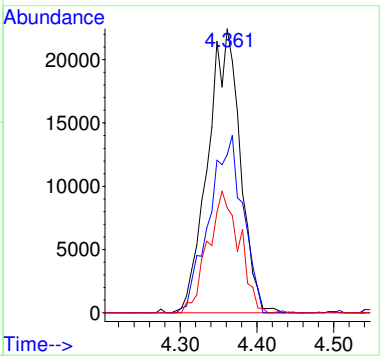


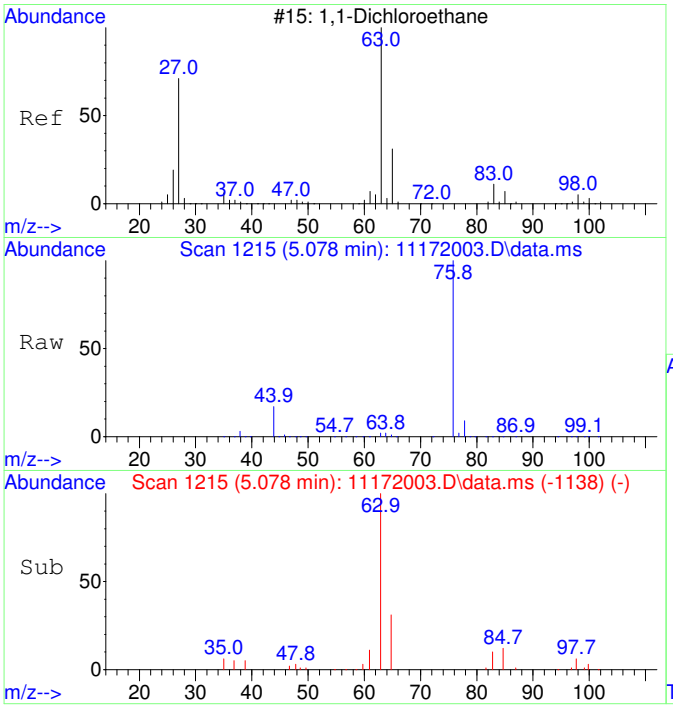


#27
trans-1,2-Dichloroethene SCAN
Concen: 4787.59 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. 0.013 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 61 Resp: 65820

Ion	Ratio	Lower	Upper
61	100		
96	64.8	49.0	109.0
98	41.3	20.5	80.5

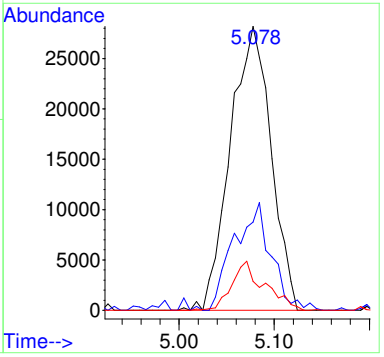


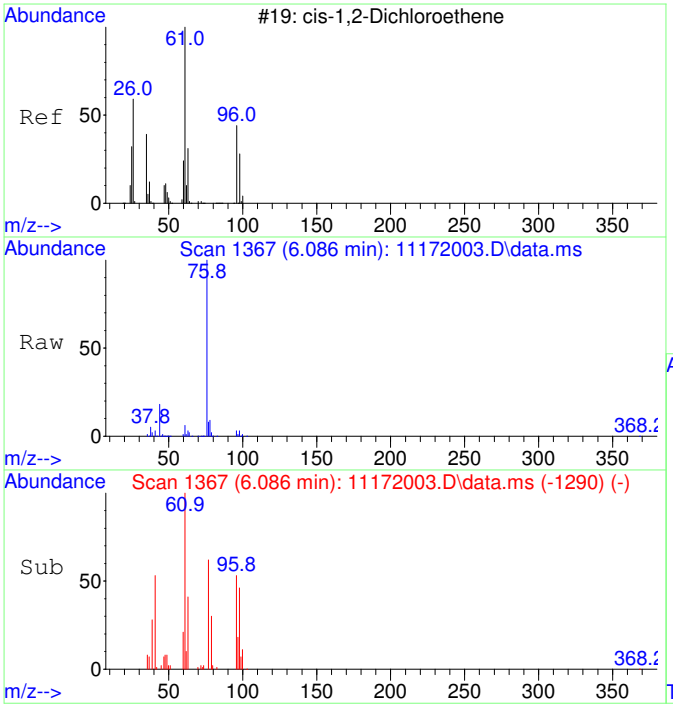


#28
1,1-Dichloroethane SCAN
Concen: 5298.77 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 63 Resp: 84307

Ion	Ratio	Lower	Upper
63	100		
65	34.6	1.3	61.3
83	13.9	0.0	45.9

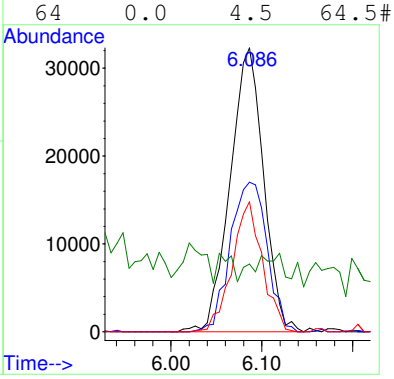


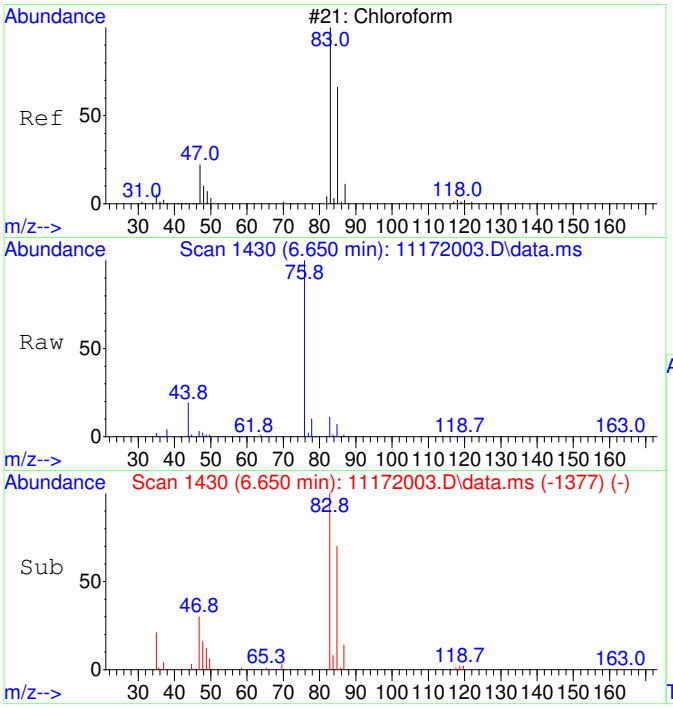


#29
cis-1,2-Dichloroethene SCAN
Concen: 4855.58 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 61 Resp: 82772

Ion	Ratio	Lower	Upper
61	100		
96	58.1	39.9	99.9
98	41.6	13.5	73.5
64	0.0	4.5	64.5#

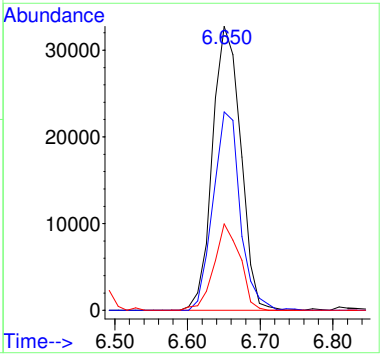


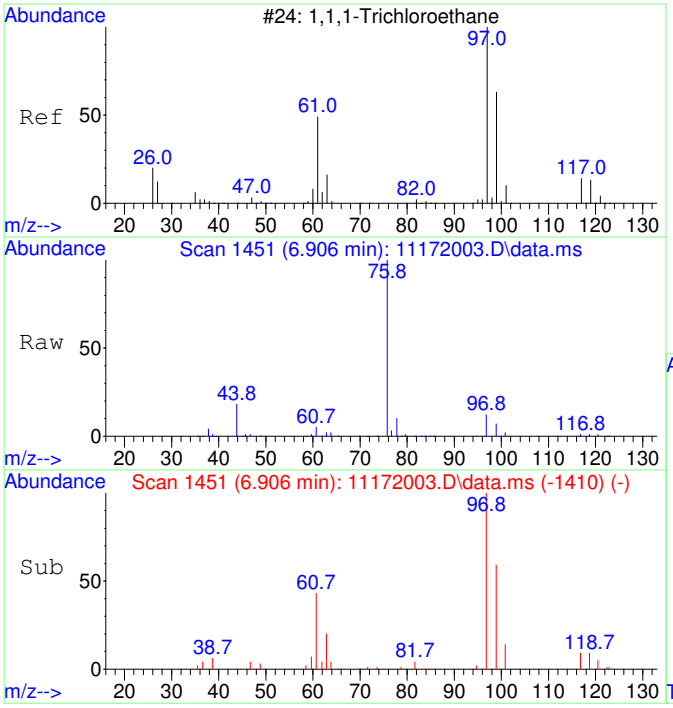


#30
Chloroform SCAN
Concen: 4787.50 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 83 Resp: 88519

Ion	Ratio	Lower	Upper
83	100		
85	67.3	34.6	94.6
47	28.0	0.0	53.4

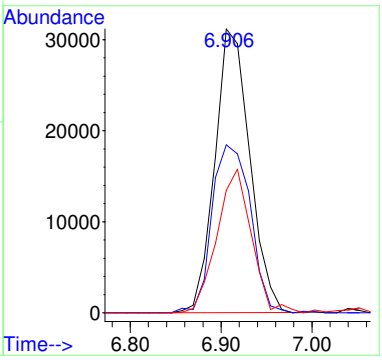


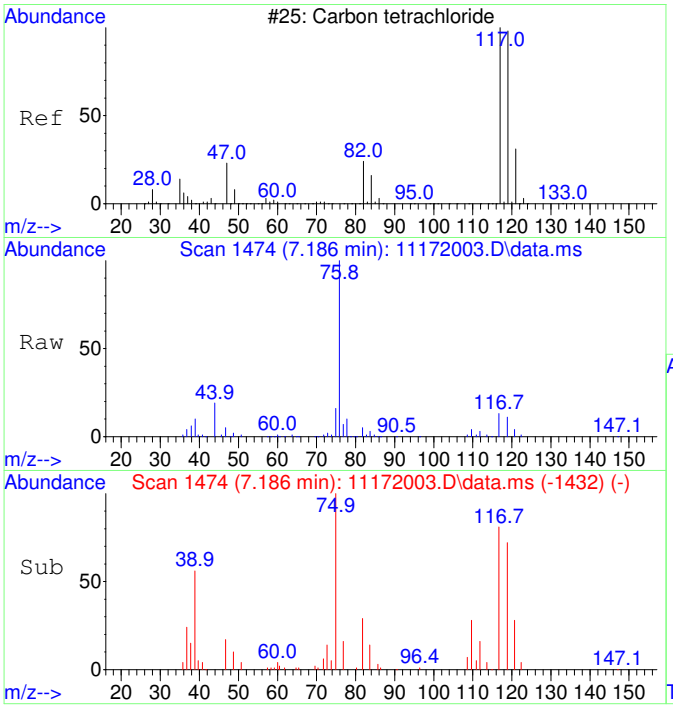


#31
1,1,1-Trichloroethane SCAN
Concen: 4954.05 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 97 Resp: 83472

Ion	Ratio	Lower	Upper
97	100		
99	65.2	43.6	103.6
61	49.9	18.0	78.0

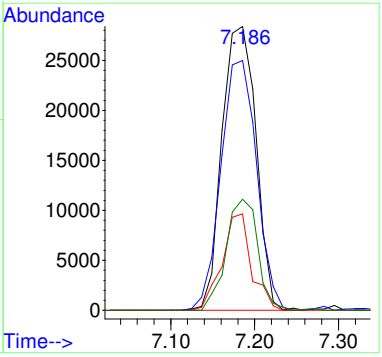


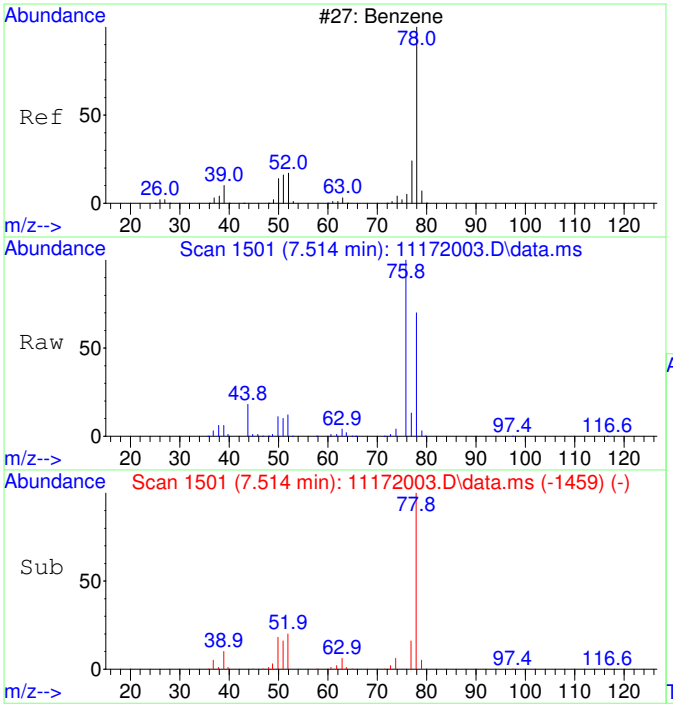


#32
Carbon tetrachloride SCAN
Concen: 4551.48 ug/L
RT: 7.186 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:117 Resp: 79995

Ion	Ratio	Lower	Upper
117	100		
119	92.2	75.5	135.5
121	29.3	0.0	58.8
82	36.7	0.0	59.2

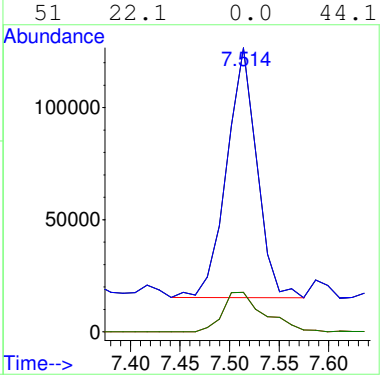


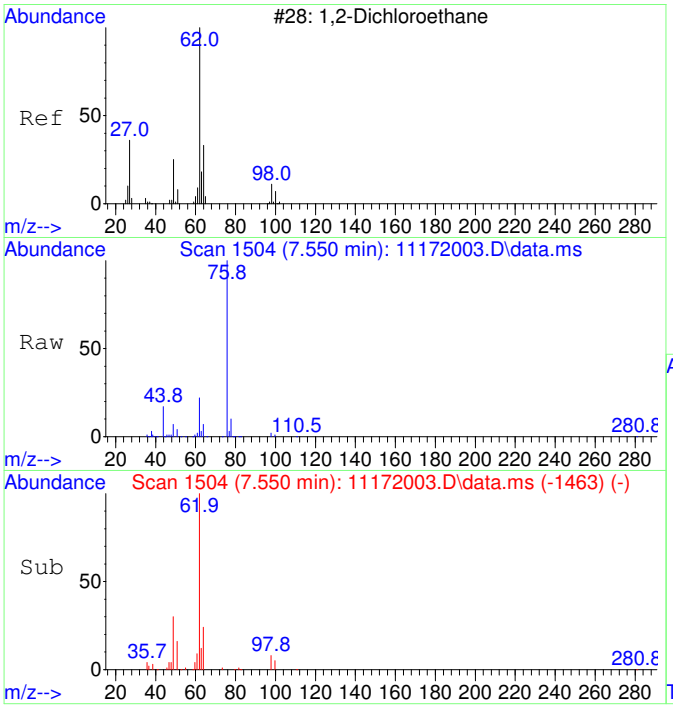


#33
Benzene SCAN
Concen: 5100.30 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 78 Resp: 236614

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	22.1	0.0	47.9
51	22.1	0.0	44.1

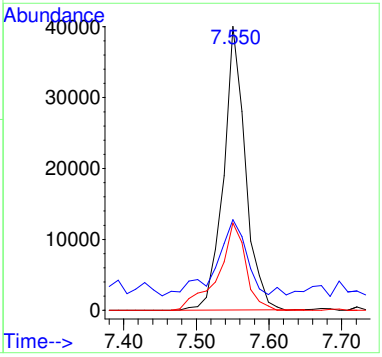


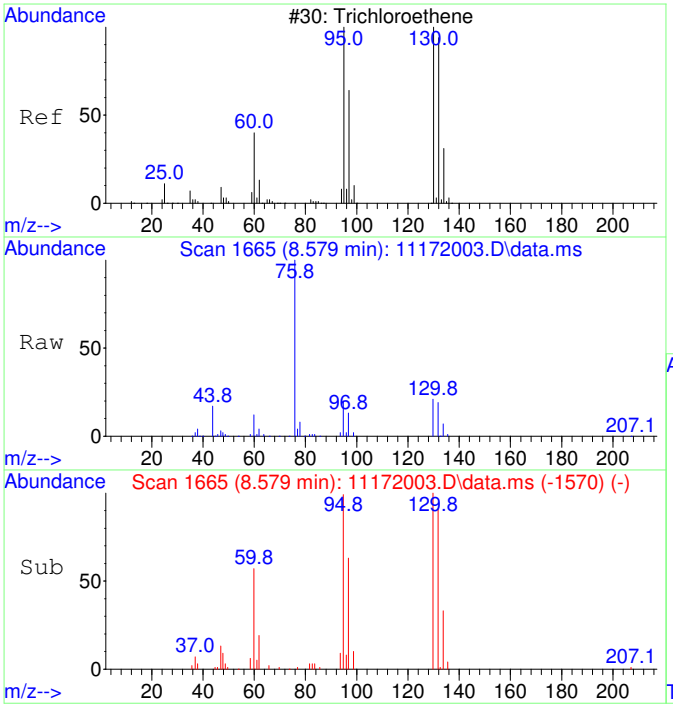


#34
1,2-Dichloroethane SCAN
Concen: 4866.12 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 62 Resp: 83359

Ion	Ratio	Lower	Upper
62	100		
64	37.5	5.2	65.2
49	39.0	3.9	63.9

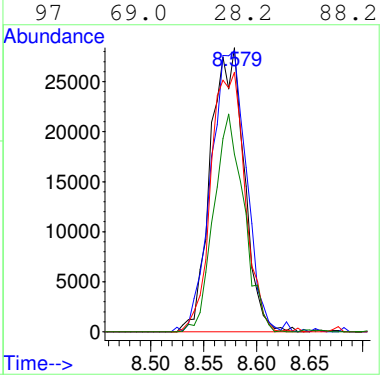


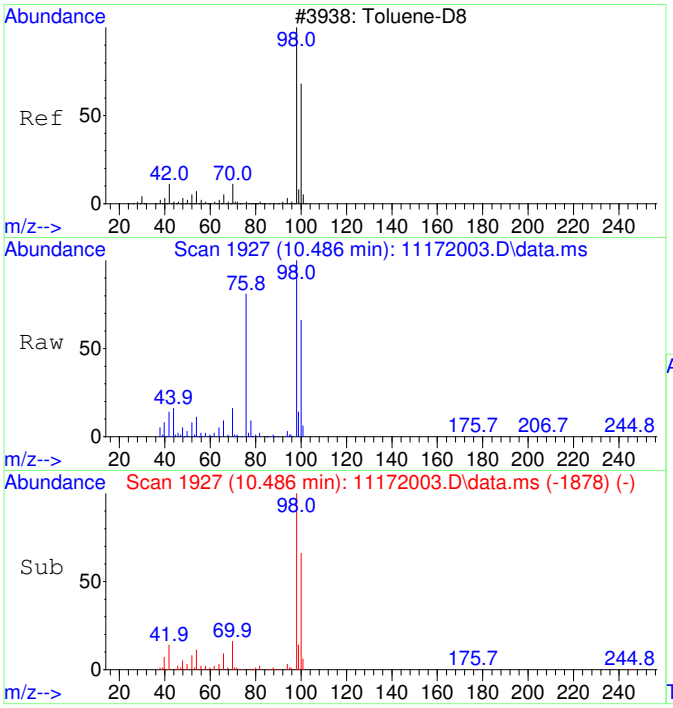


#35
Trichloroethene SCAN
Concen: 4909.37 ug/L
RT: 8.579 min Scan# 1665
Delta R.T. 0.016 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:130 Resp: 62589

Ion	Ratio	Lower	Upper
130	100		
95	103.2	60.5	120.5
132	92.1	59.6	119.6
97	69.0	28.2	88.2

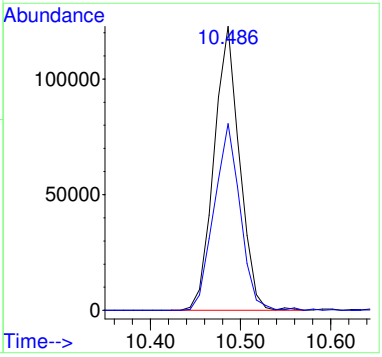


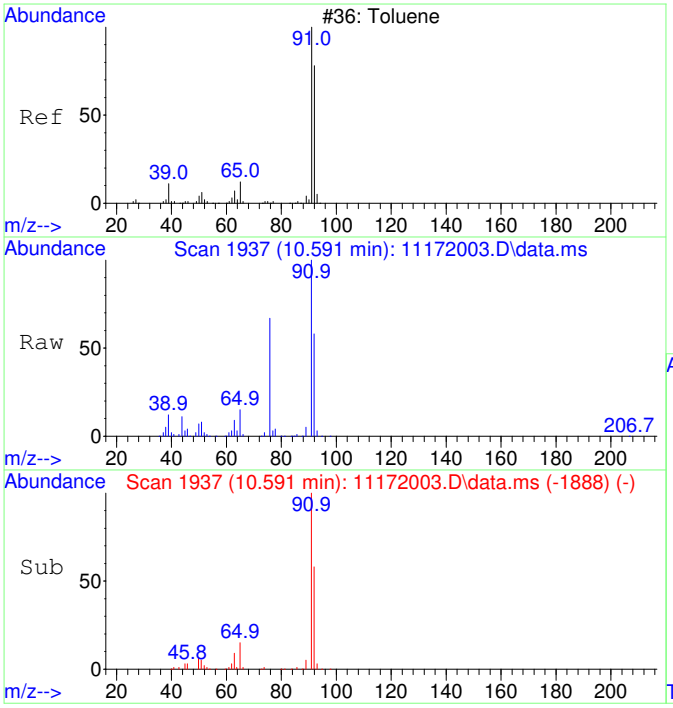


#36
Toluene-d8 SCAN
Concen: 4719.02 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 98 Resp: 241436

Ion	Ratio	Lower	Upper
98	100		
100	66.5	40.0	100.0

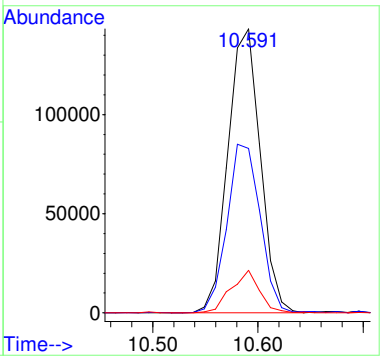


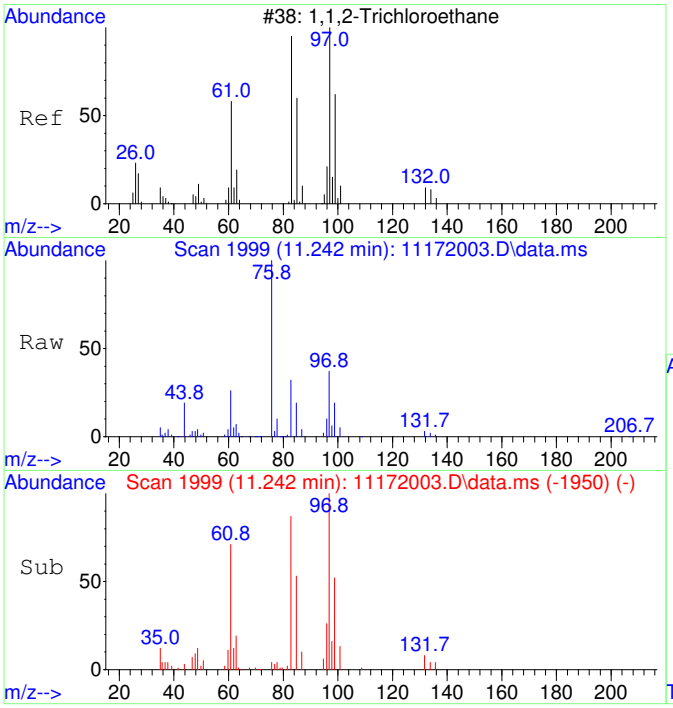


#37
Toluene SCAN
Concen: 4684.61 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 91 Resp: 306940

Ion	Ratio	Lower	Upper
91	100		
92	60.8	28.3	88.3
65	13.2	0.0	41.0

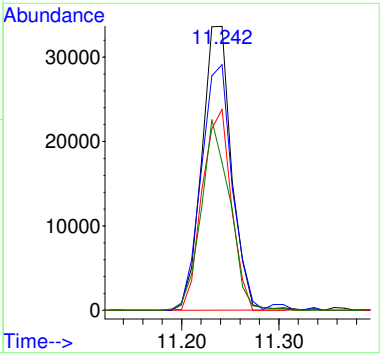


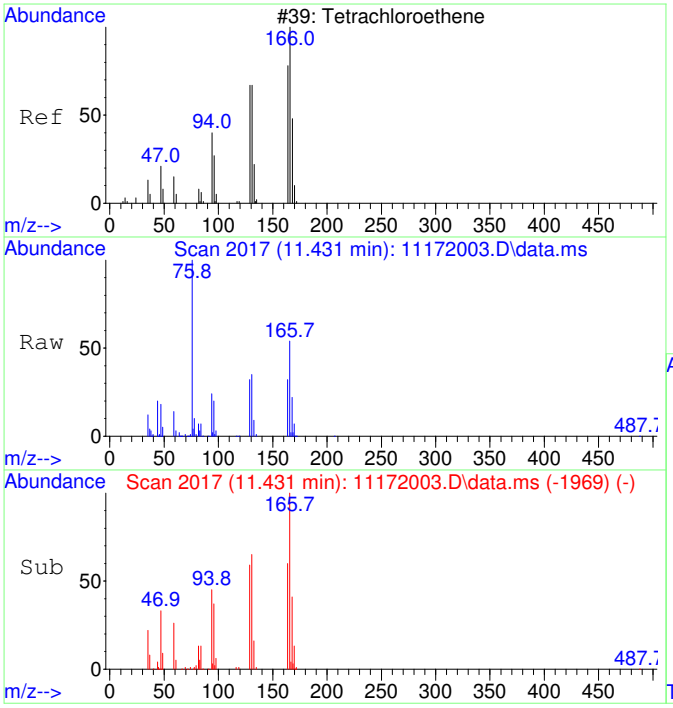


#38
1,1,2-Trichloroethane SCAN
Concen: 4858.88 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. 0.010 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 97 Resp: 71458

Ion	Ratio	Lower	Upper
97	100		
83	91.0	57.7	117.7
61	69.0	32.1	92.1
99	64.7	36.7	96.7

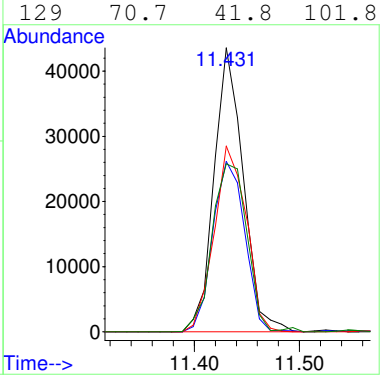


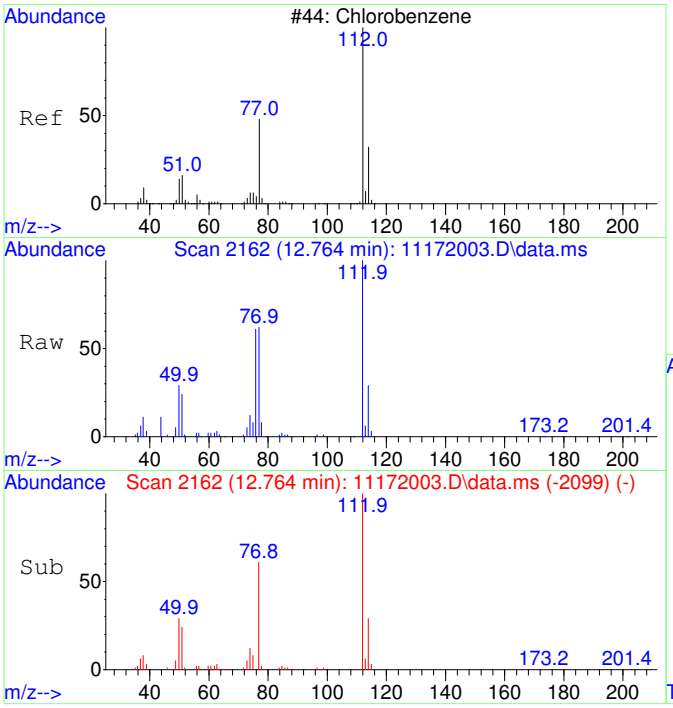


#39
Tetrachloroethene SCAN
Concen: 5363.69 ug/L
RT: 11.431 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:166 Resp: 84431

Ion	Ratio	Lower	Upper
166	100		
164	65.4	50.9	110.9
131	71.5	38.7	98.7
129	70.7	41.8	101.8

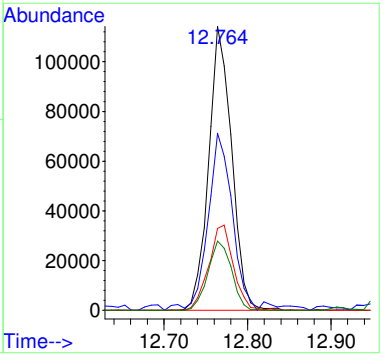


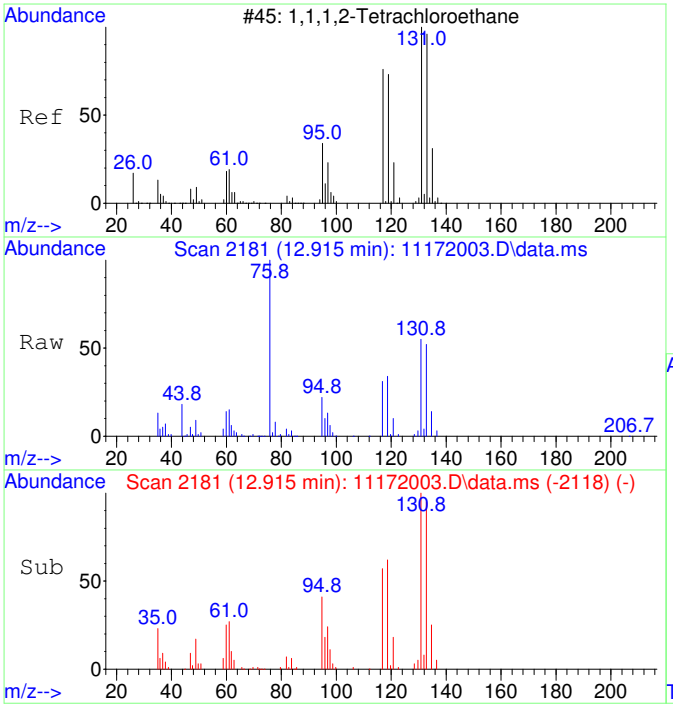


#40
Chlorobenzene SCAN
Concen: 4900.68 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:112 Resp: 219413

Ion	Ratio	Lower	Upper
112	100		
77	65.3	28.2	88.2
114	32.2	2.3	62.3
51	25.1	0.0	50.1

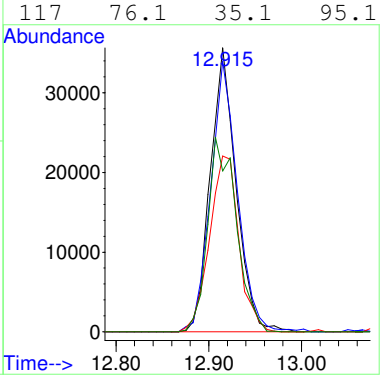


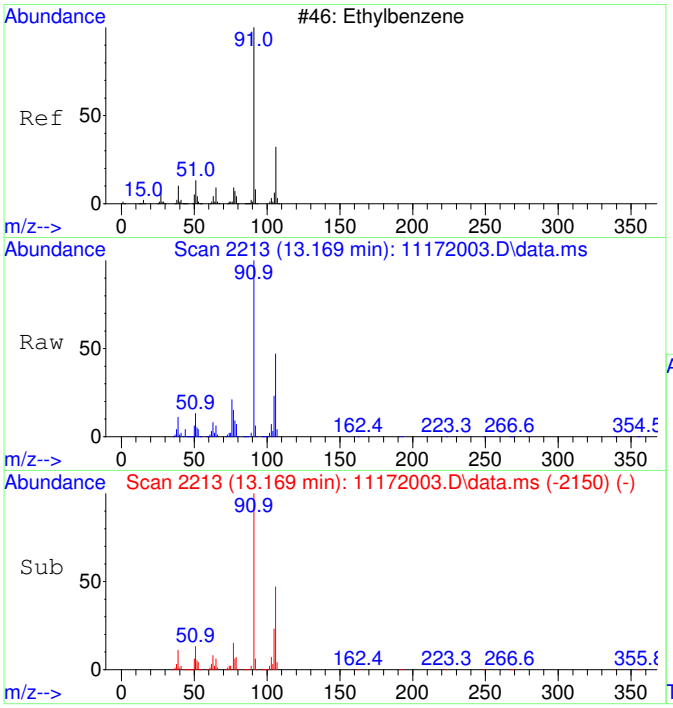


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 4169.02 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:131 Resp: 69077

Ion	Ratio	Lower	Upper
131	100		
133	99.1	66.9	126.9
119	70.2	40.4	100.4
117	76.1	35.1	95.1

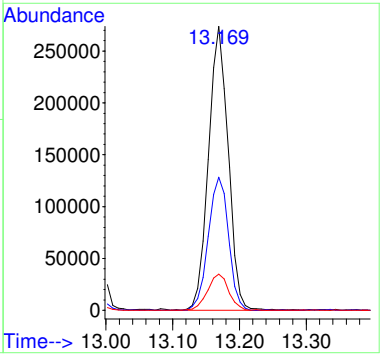


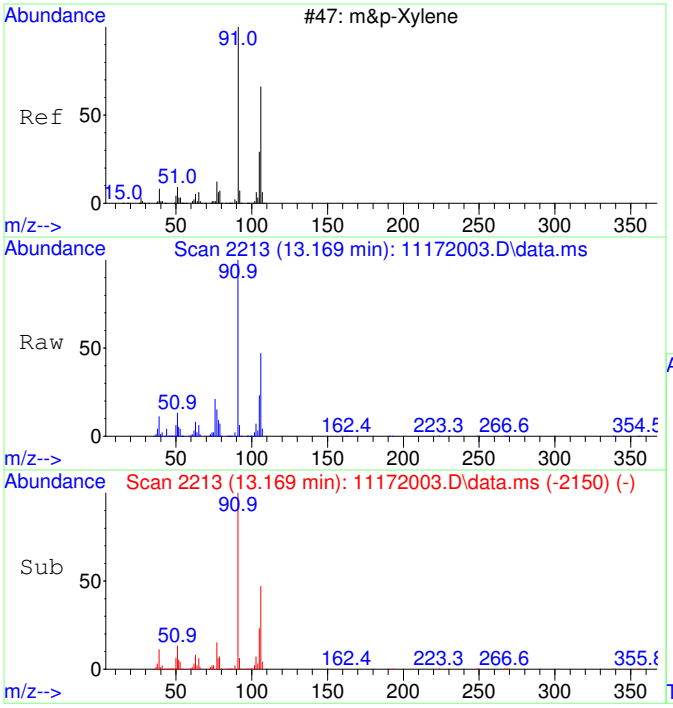


#42
Ethylbenzene SCAN
Concen: 4713.99 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 91 Resp: 562699

Ion	Ratio	Lower	Upper
91	100		
106	48.0	23.1	83.1
51	13.7	0.0	40.1

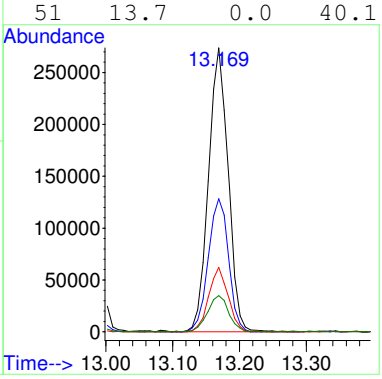


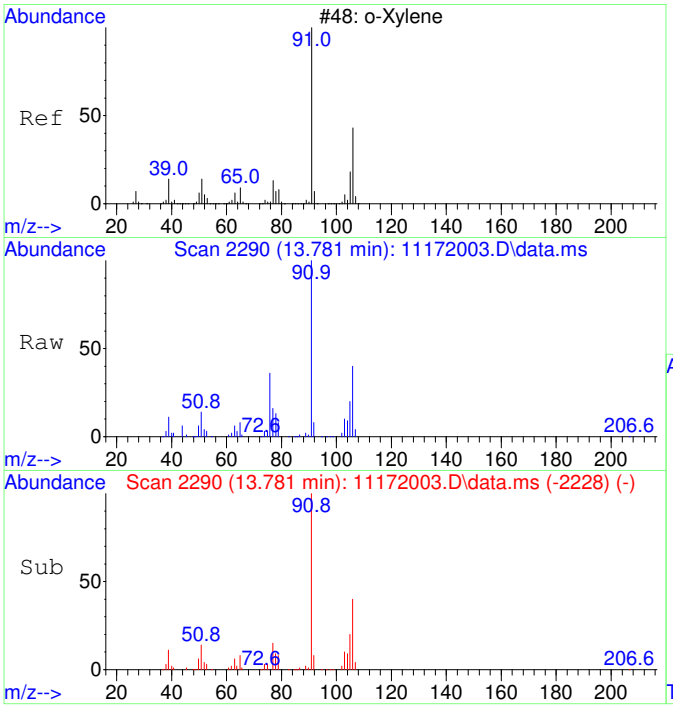


#43
m&p-Xylene SCAN
Concen: 4713.99 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 91 Resp: 562699

Ion	Ratio	Lower	Upper
91	100		
106	48.0	23.1	83.1
105	22.5	0.0	54.7
51	13.7	0.0	40.1

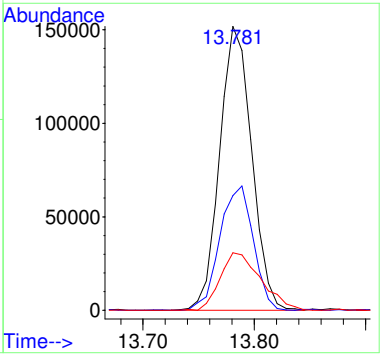


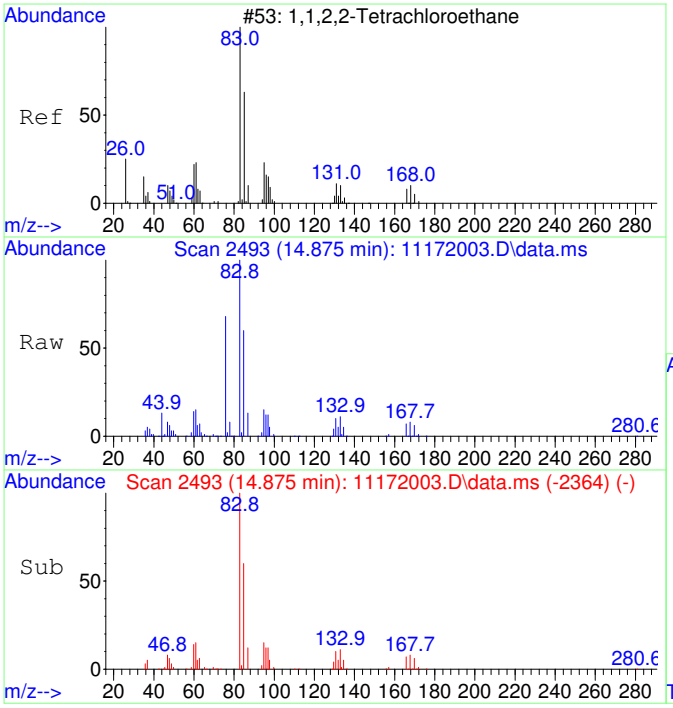


#44
o-Xylene SCAN
Concen: 4763.58 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 91 Resp: 304367

Ion	Ratio	Lower	Upper
91	100		
106	45.7	18.0	78.0
105	25.7	0.0	56.6

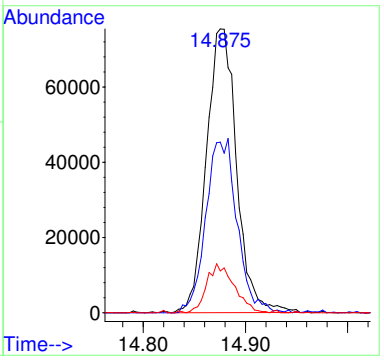


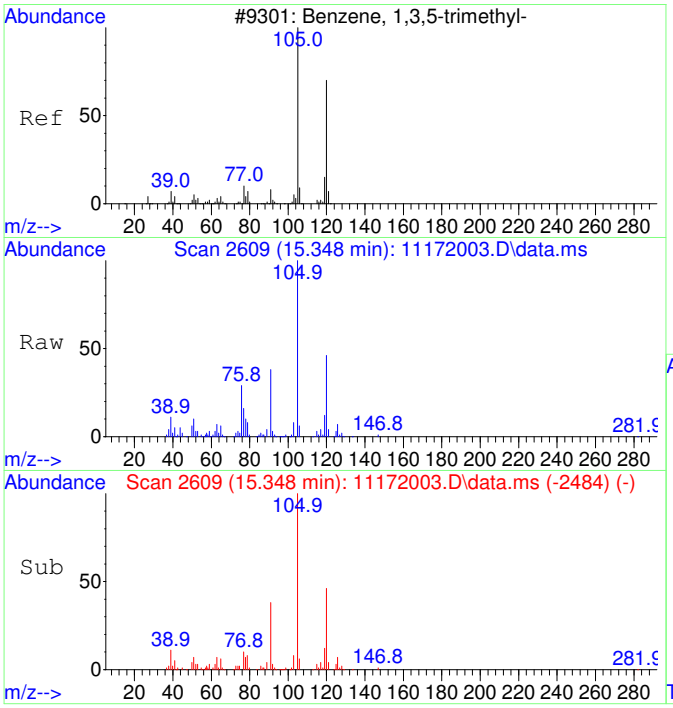


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 4958.96 ug/L
RT: 14.875 min Scan# 2493
Delta R.T. 0.004 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion: 83 Resp: 154501

Ion	Ratio	Lower	Upper
83	100		
85	63.3	35.9	95.9
95	15.7	0.0	47.4

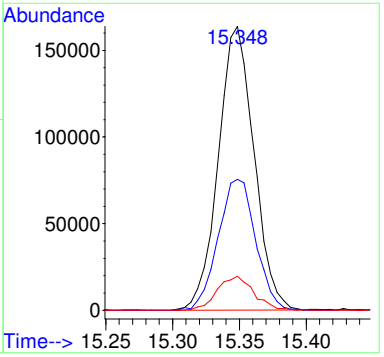


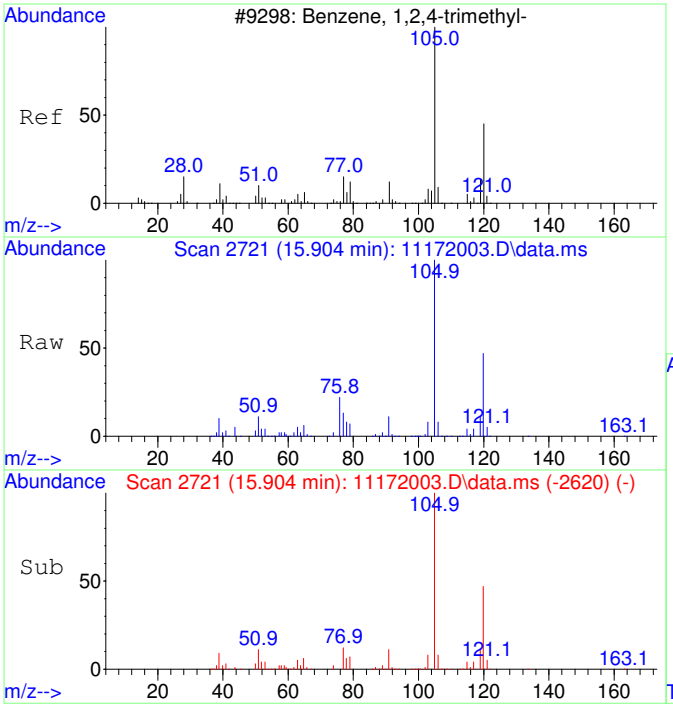


#46
1,3,5-Trimethylbenzene SCAN
Concen: 4523.91 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:105 Resp: 304633

Ion	Ratio	Lower	Upper
105	100		
120	48.6	18.3	78.3
119	12.4	0.0	43.1

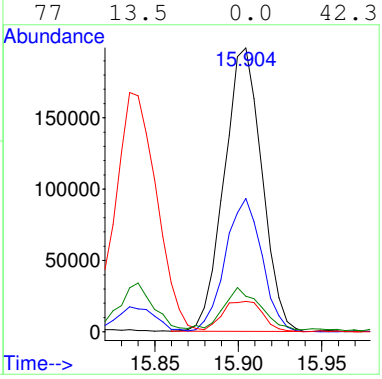


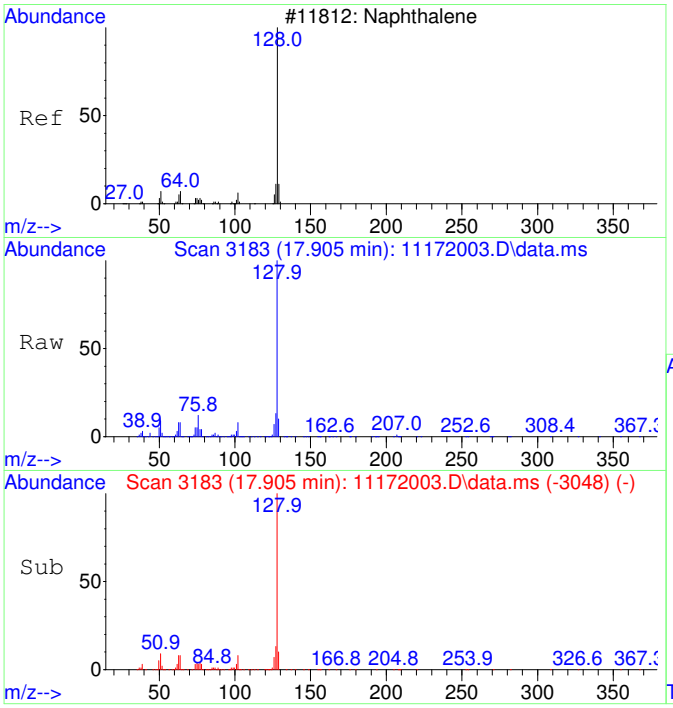


#47
1,2,4-Trimethylbenzene SCAN
Concen: 4532.44 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:105 Resp: 312295

Ion	Ratio	Lower	Upper
105	100		
120	45.2	16.9	76.9
119	10.6	0.0	41.9
77	13.5	0.0	42.3

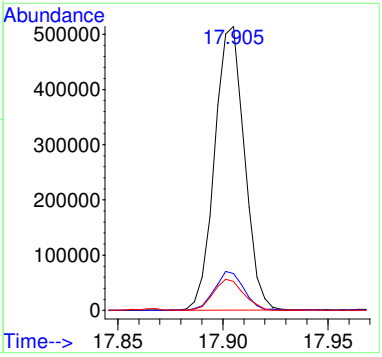




#48
Naphthalene SCAN
Concen: 4835.95 ug/L
RT: 17.905 min Scan# 3183
Delta R.T. 0.000 min
Lab File: 11172003.D
Acq: 17 Nov 2020 8:42

Tgt Ion:128 Resp: 504197

Ion	Ratio	Lower	Upper
128	100		
127	13.5	0.0	44.0
129	11.1	0.0	40.8



S20K066-CRL1

QLS REPORT

Instrument Name: AG5975C
Sample Name: S20K066-CRL1
Misc Info: 2030073 0.05 mg/L
Date Acquired: 11/17/20 9:05
QLast Update: Mon Nov 16 10:20:51 2020
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.970	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.086	50.0	45.71	91%	60	140	pass
3)	trans-1,2-Dichloroethene	4.343	50.0	44.80	90%	60	140	pass
4)	1,1-Dichloroethane	5.066	50.0	46.45	93%	60	140	pass
5)	cis-1,2-Dichloroethene	6.074	50.0	46.90	94%	60	140	pass
6)	Chloroform	6.639	50.0	45.02	90%	60	140	pass
7)	1,1,1-Trichloroethane	6.907	50.0	44.16	88%	60	140	pass
8)	Carbon tetrachloride	7.175	50.0	44.28	89%	60	140	pass
10)	1,2-Dichloroethane	7.540	50.0	44.94	90%	60	140	pass
11)	Trichloroethene	8.564	50.0	48.78	98%	60	140	pass
12)	Toluene-d8	10.477	50.0	49.67	99%	60	140	pass
13)	Toluene	10.571	50.0	50.71	101%	60	140	pass
14)	1,1,2-Trichloroethane	11.222	50.0	50.54	101%	60	140	pass
15)	Tetrachloroethene	11.432	50.0	49.22	98%	60	140	pass
16)	Chlorobenzene	12.765	50.0	52.20	104%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.916	50.0	50.63	101%	60	140	pass
18)	Ethylbenzene	12.972	50.0	52.93	106%	60	140	pass
19)	m&p-Xylene	13.163	100.0	105.54	106%	60	140	pass
20)	o-Xylene	13.782	50.0	52.20	104%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.877	50.0	53.48	107%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.345	50.0	56.53	113%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.901	50.0	58.58	117%	60	140	pass
24)	Naphthalene	17.903	50.0	50.79	102%	60	140	pass

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172004.D
Acq On : 17 Nov 2020 9:05
InstName : AG5975C
Operator : TD
Sample : S20K066-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 17 09:24:41 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	604274	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	5876	49.67	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	1597	66.18	ug/L	83
3] trans-1,2-Dichloroethene	4.356	61	1249	44.80	ug/L	60
4] 1,1-Dichloroethane	5.079	63	1612	46.45	ug/L #	30
5] cis-1,2-Dichloroethene	6.081	61	1718	46.90	ug/L	99
6] Chloroform	6.652	83	1688	45.02	ug/L	93
7] 1,1,1-Trichloroethane	6.907	97	1798	44.16	ug/L	96
8] Carbon tetrachloride	7.187	117	1697	44.28	ug/L	99
9] Benzene	7.503	78	5827	56.75	ug/L	59
10] 1,2-Dichloroethane	7.552	62	1647	44.94	ug/L #	1
11] Trichloroethene	8.569	130	1508	48.78	ug/L	93
13] Toluene	10.582	91	7647	50.71	ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	1661	50.54	ug/L	97
15] Tetrachloroethene	11.432	166	2148	49.22	ug/L	98
16] Chlorobenzene	12.765	112	5637	52.20	ug/L	84
17] 1,1,1,2-Tetrachloroethane	12.916	131	1959	50.63	ug/L	100
18] Ethylbenzene	12.972	91	9717	52.93	ug/L	95
19] m&p-Xylene	13.162	91	15142	105.54	ug/L	95
20] o-Xylene	13.782	91	8002	52.20	ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.877	83	3633	53.48	ug/L	99
22] 1,3,5-Trimethylbenzene	15.350	105	9223	56.53	ug/L	95
23] 1,2,4-Trimethylbenzene	15.901	105	9927	58.58	ug/L	90
24] Naphthalene	17.904	128	13603	50.79	ug/L	98
25) 2-Fluorotoluene SCAN	10.969	109	298529	5067.92	ug/L	98
27) trans-1,2-Dichloroethe...	4.355	61	681	43.99	ug/L #	51
28) 1,1-Dichloroethane SCAN	5.071	63	656	36.62	ug/L #	14
29) cis-1,2-Dichloroethene...	6.080	61	433	22.56	ug/L #	51
30) Chloroform SCAN	6.638	83	813	39.05	ug/L	75
32) Carbon tetrachloride SCAN	7.161	117	1306	65.99	ug/L #	15
33) Benzene SCAN	7.855	78	4583	87.74	ug/L	93
34) 1,2-Dichloroethane SCAN	7.550	62	763	39.56	ug/L #	45
35) Trichloroethene SCAN	8.579	130	502	34.97	ug/L #	57
36) Toluene-d8 SCAN	10.475	98	4360	75.68	ug/L #	59
37) Toluene SCAN	10.580	91	5041	68.33	ug/L	64
38) 1,1,2-Trichloroethane ...	11.252	97	1462	88.29	ug/L #	63
39) Tetrachloroethene SCAN	11.441	166	735	41.47	ug/L #	53
40) Chlorobenzene SCAN	12.756	112	2846	56.45	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.923	131	742	39.77	ug/L #	36
42) Ethylbenzene SCAN	13.169	91	7246	53.91	ug/L	97
43) m&p-Xylene SCAN	13.169	91	7246	53.91	ug/L	98
44) o-Xylene SCAN	13.789	91	4279	59.48	ug/L	68
47) 1,2,4-Trimethylbenzene...	15.904	105	5124	66.05	ug/L #	39
48) Naphthalene SCAN	17.902	128	5823	49.60	ug/L	86

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

Quantitation Report (Not Reviewed)

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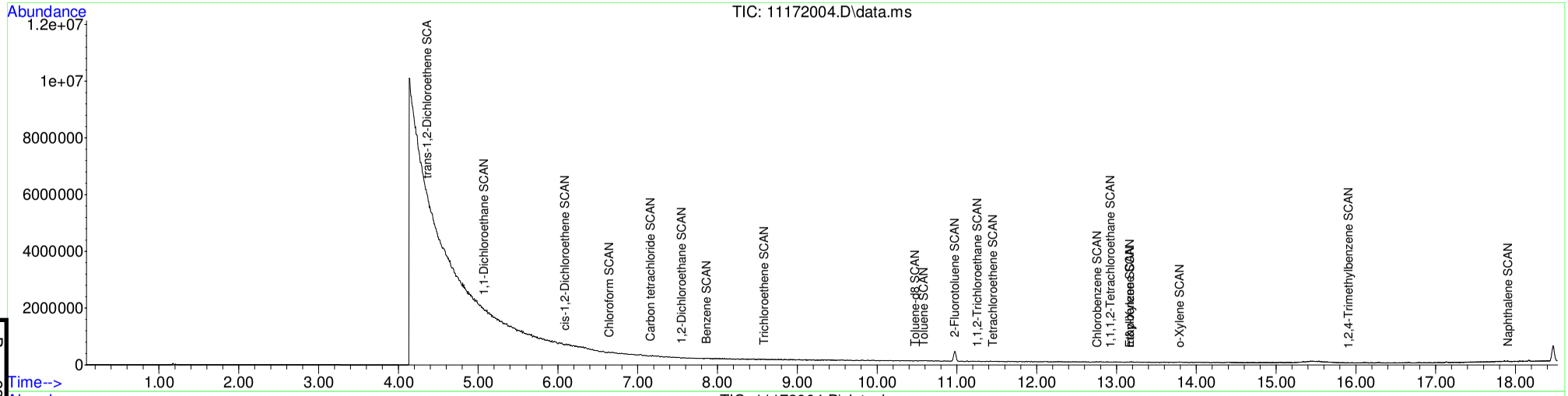

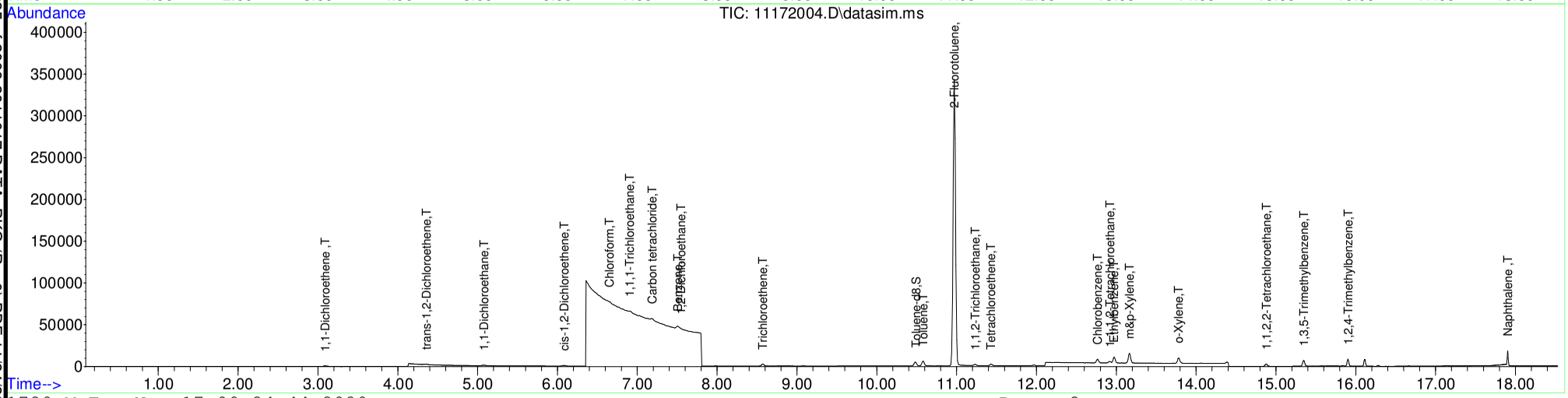

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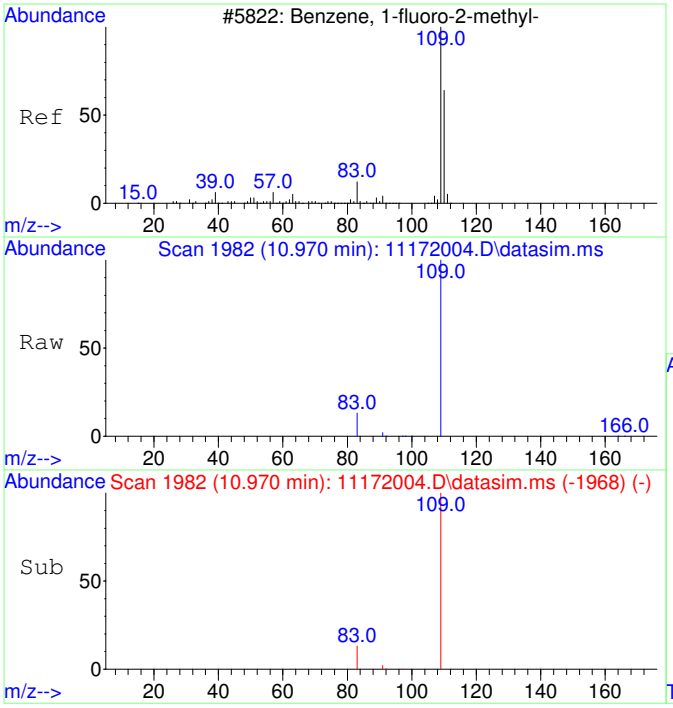
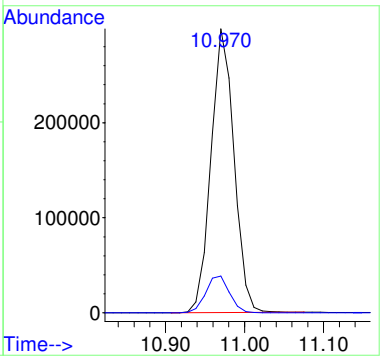
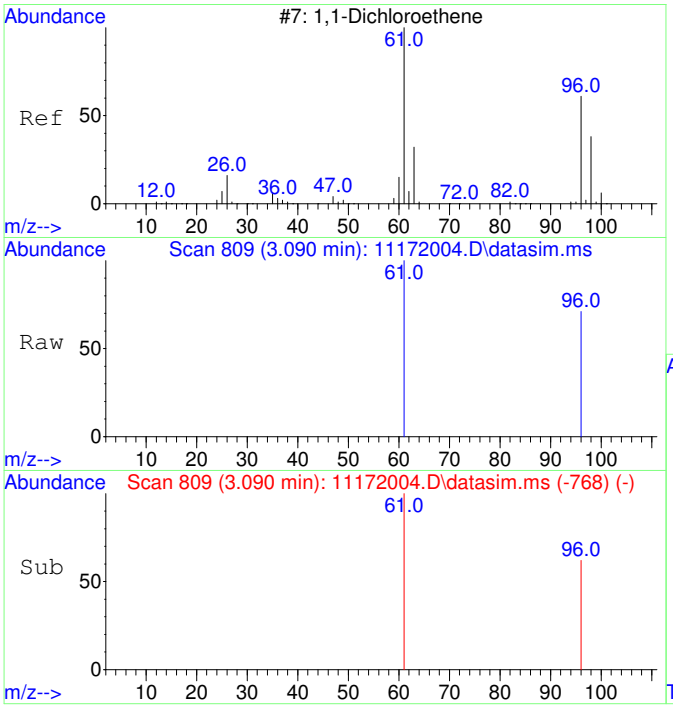


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:109 Resp: 604274

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

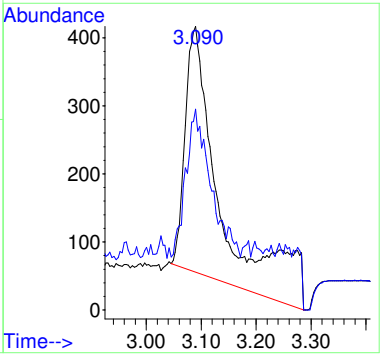




#2
1,1-Dichloroethene
Concen: 66.18 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 1597

Ion	Ratio	Lower	Upper
61	100		
96	53.5	37.2	97.2



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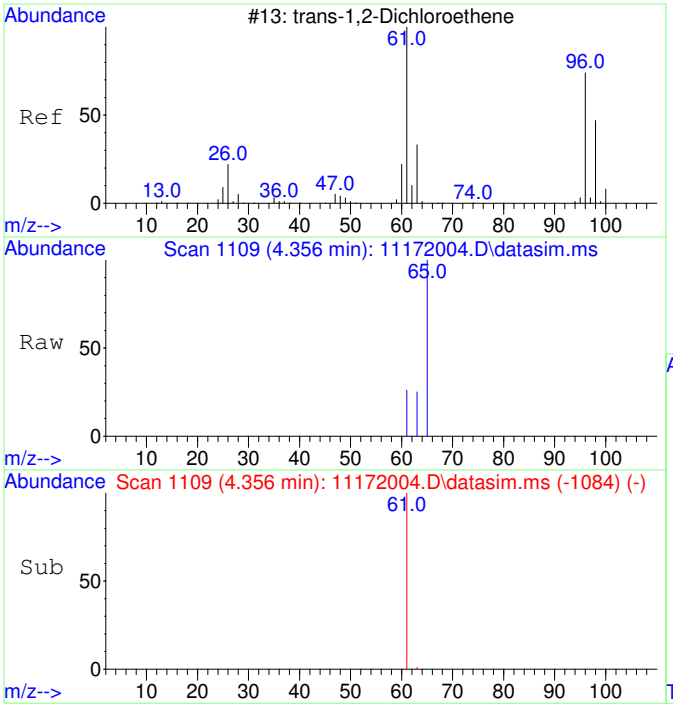
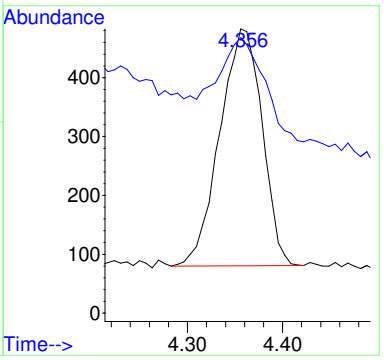
IMPROPER
BASELINE

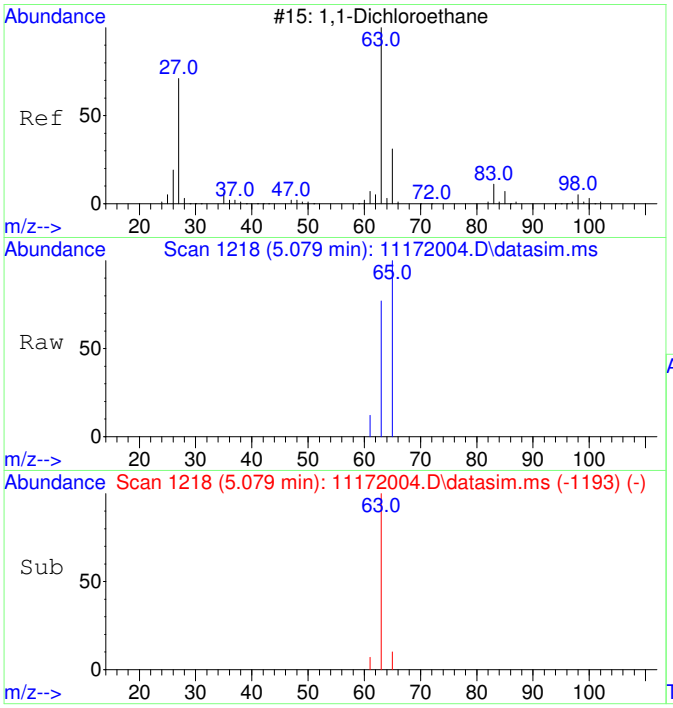


#3
trans-1,2-Dichloroethene
Concen: 44.80 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 1249

Ion	Ratio	Lower	Upper
61	100		
63	54.8	2.4	62.4

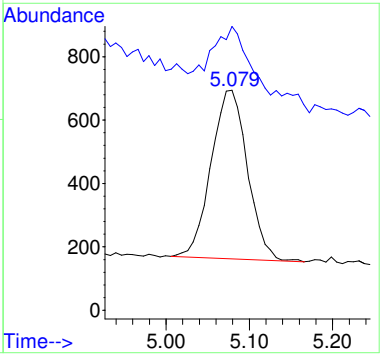


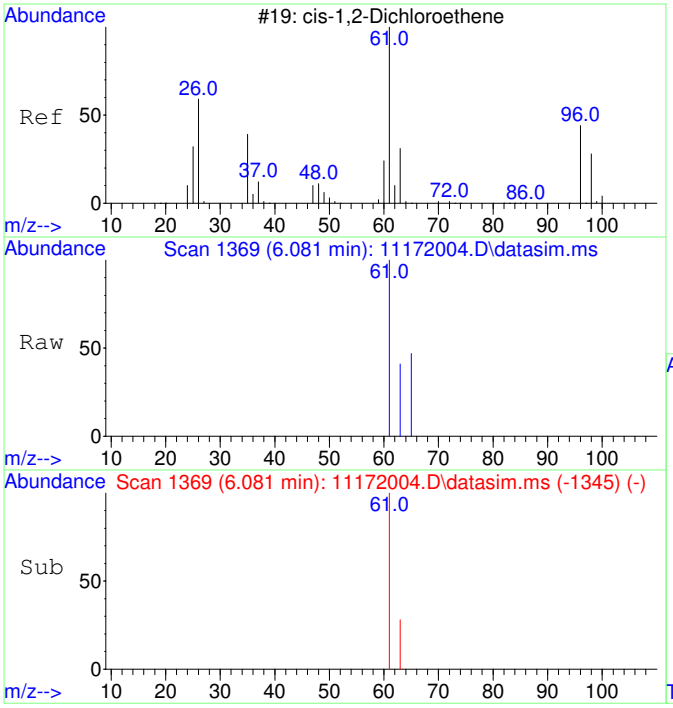


#4
1,1-Dichloroethane
Concen: 46.45 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 63 Resp: 1612

Ion	Ratio	Lower	Upper
63	100		
65	71.0	1.8	61.8#

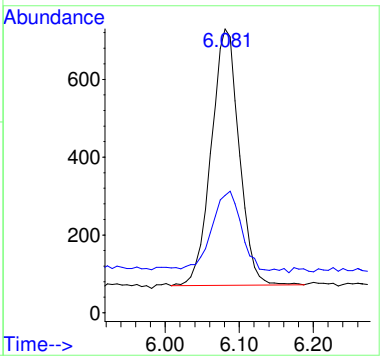


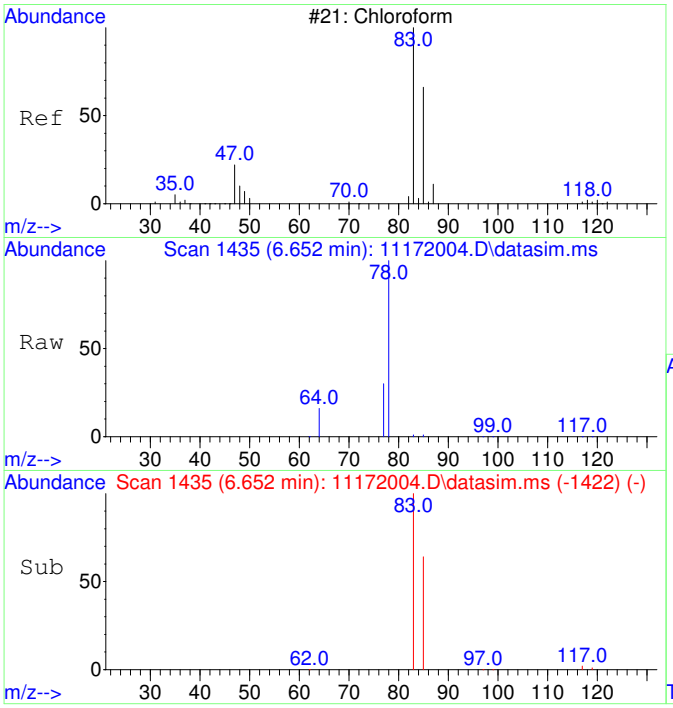


#5
cis-1,2-Dichloroethene
Concen: 46.90 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 1718

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.5	62.5

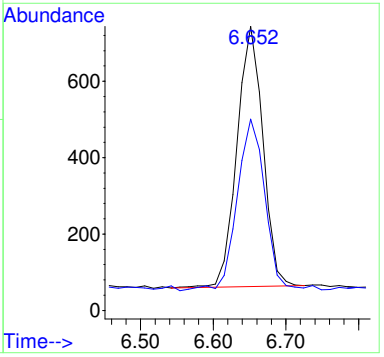


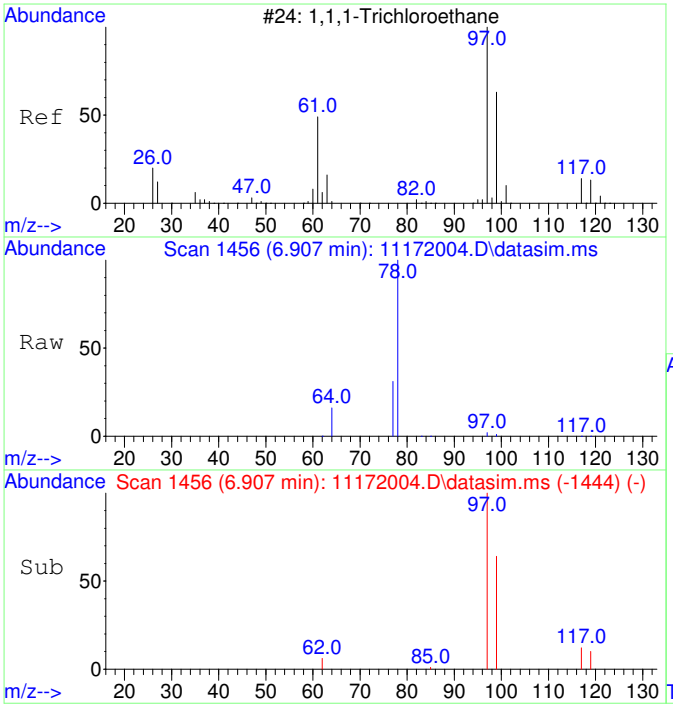


#6
Chloroform
Concen: 45.02 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 83 Resp: 1688

Ion	Ratio	Lower	Upper
83	100		
85	70.8	35.1	95.1

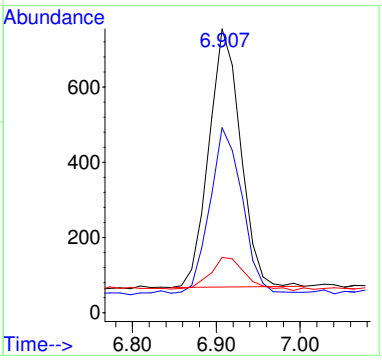


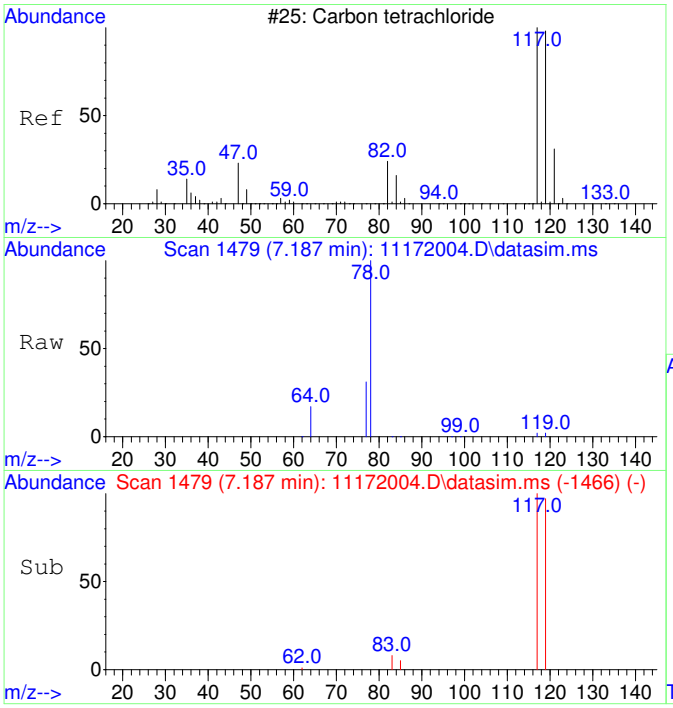


#7
1,1,1-Trichloroethane
Concen: 44.16 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 97 Resp: 1798

Ion	Ratio	Lower	Upper
97	100		
99	67.9	34.6	94.6
117	14.7	0.0	43.2

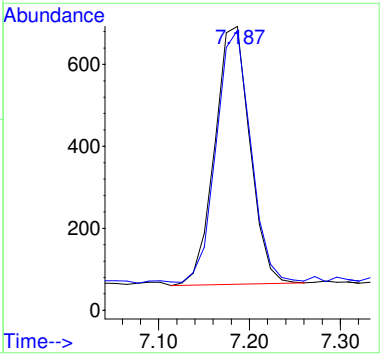


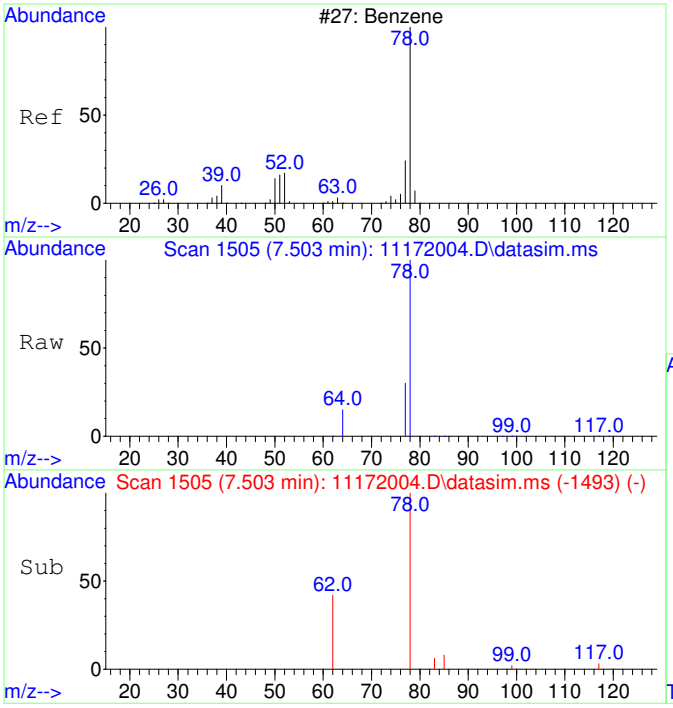


#8
Carbon tetrachloride
Concen: 44.28 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:117 Resp: 1697

Ion	Ratio	Lower	Upper
117	100		
119	95.6	66.4	126.4

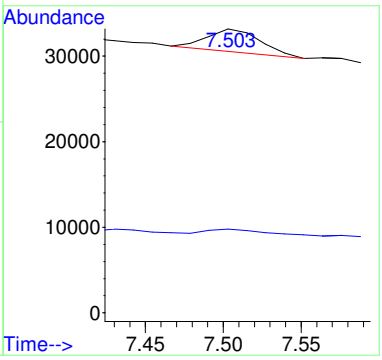


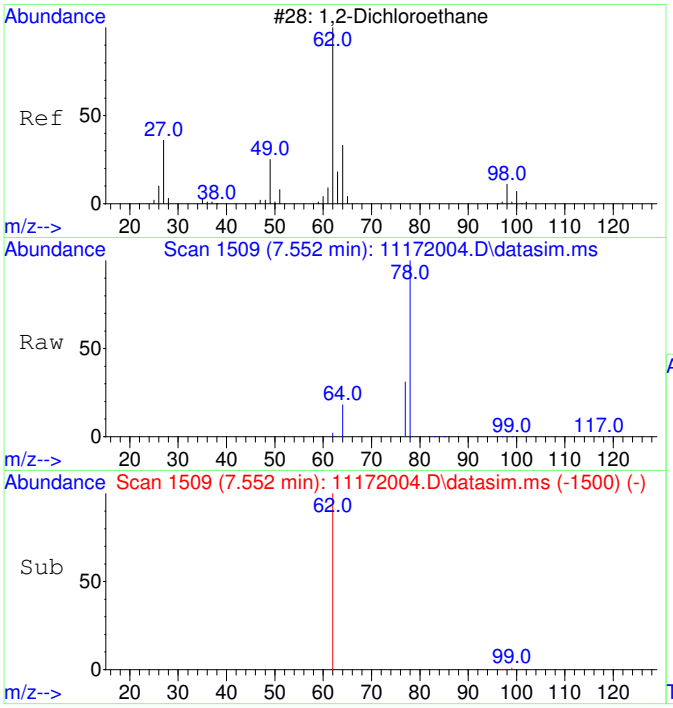


#9
Benzene
Concen: 56.75 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 78 Resp: 5827

Ion	Ratio	Lower	Upper
78	100		
77	43.1	0.0	53.2

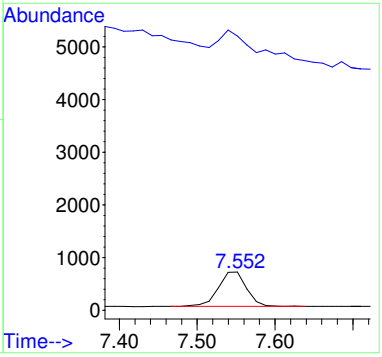


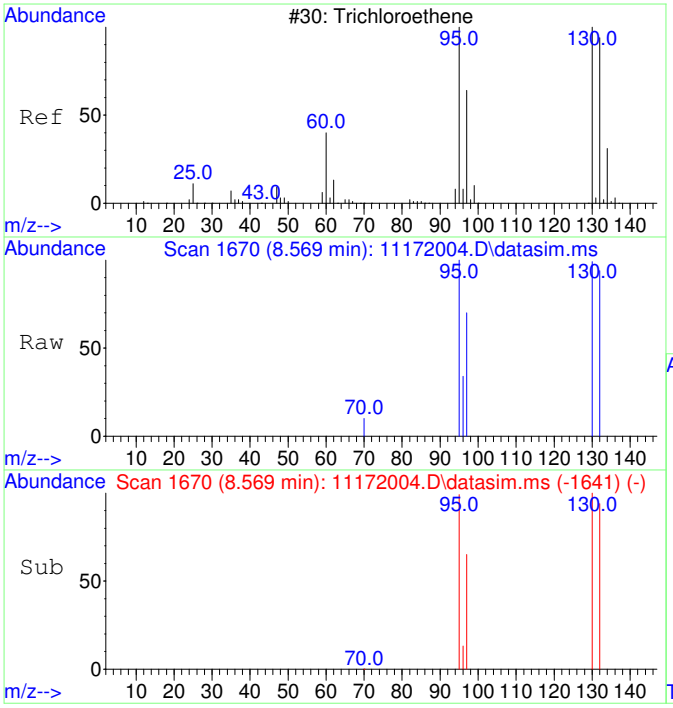


#10
1,2-Dichloroethane
Concen: 44.94 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 62 Resp: 1647

Ion	Ratio	Lower	Upper
62	100		
64	103.2	2.3	62.3#

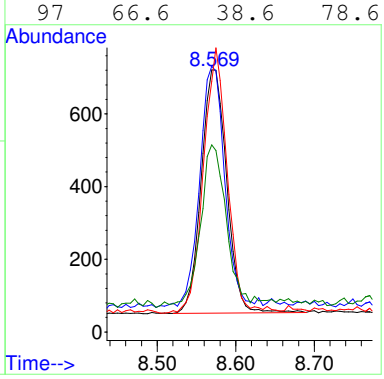


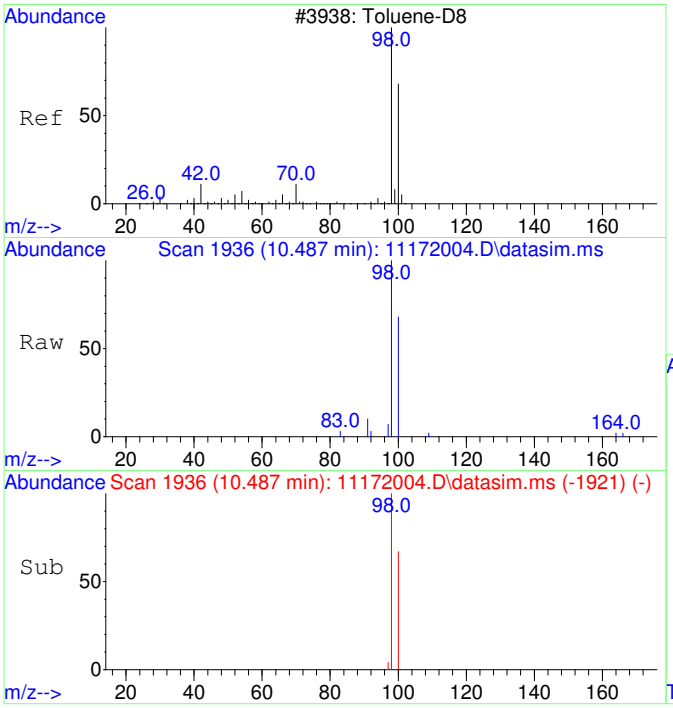


#11
Trichloroethene
Concen: 48.78 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:130 Resp: 1508

Ion	Ratio	Lower	Upper
130	100		
95	97.7	60.7	120.7
132	101.2	76.0	116.0
97	66.6	38.6	78.6

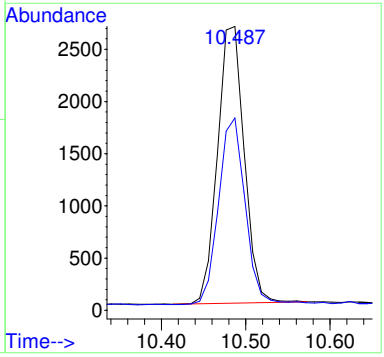


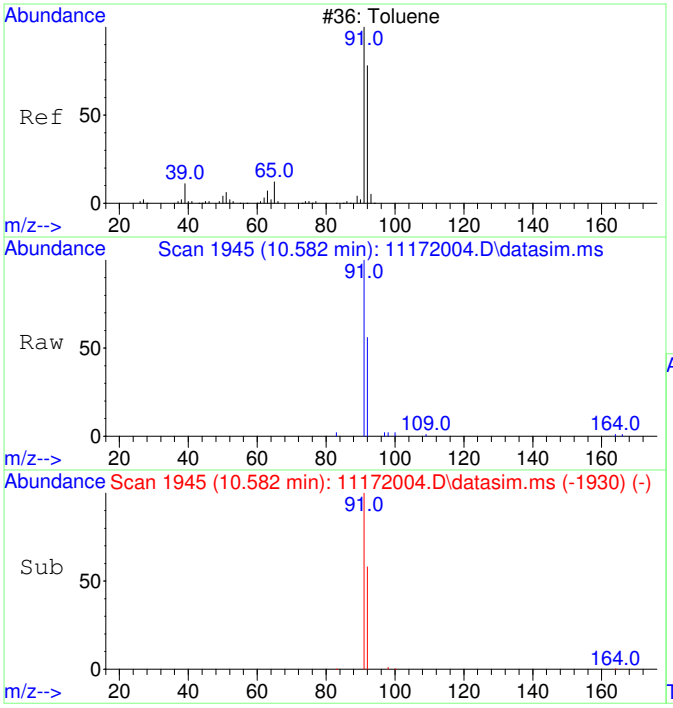


#12
Toluene-d8
Concen: 49.67 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 98 Resp: 5876

Ion	Ratio	Lower	Upper
98	100		
100	66.2	37.1	97.1

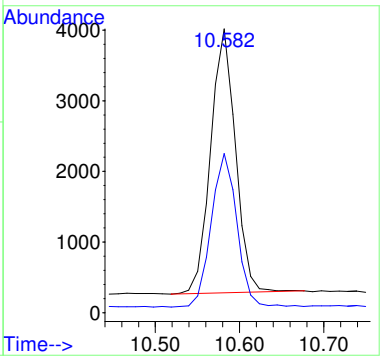


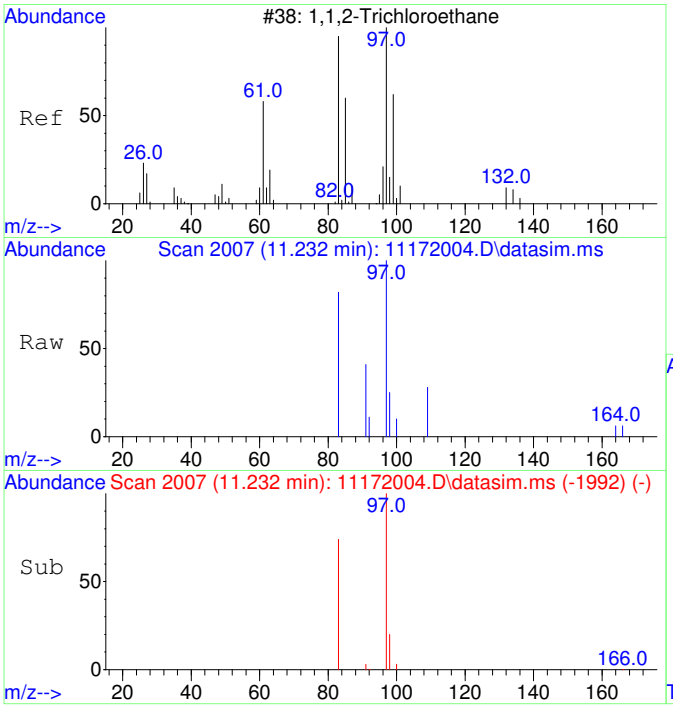


#13
Toluene
Concen: 50.71 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 7647

Ion	Ratio	Lower	Upper
91	100		
92	59.8	29.9	89.9

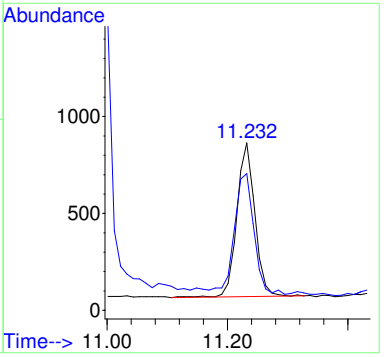


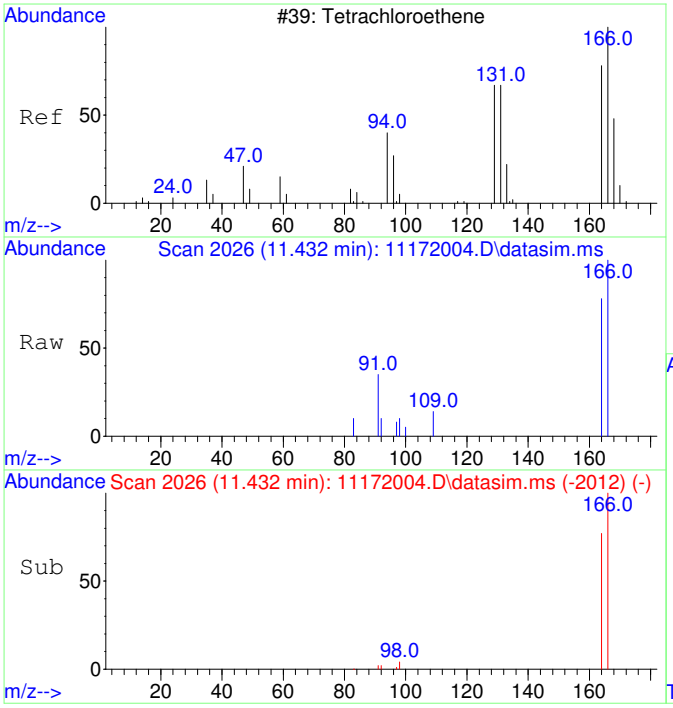


#14
1,1,2-Trichloroethane
Concen: 50.54 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 97 Resp: 1661

Ion	Ratio	Lower	Upper
97	100		
83	83.7	51.2	111.2

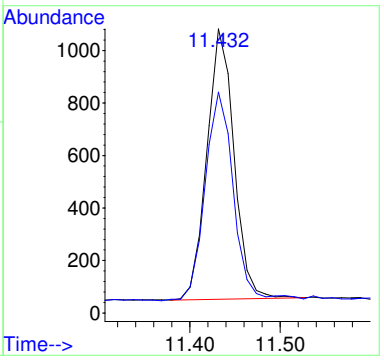


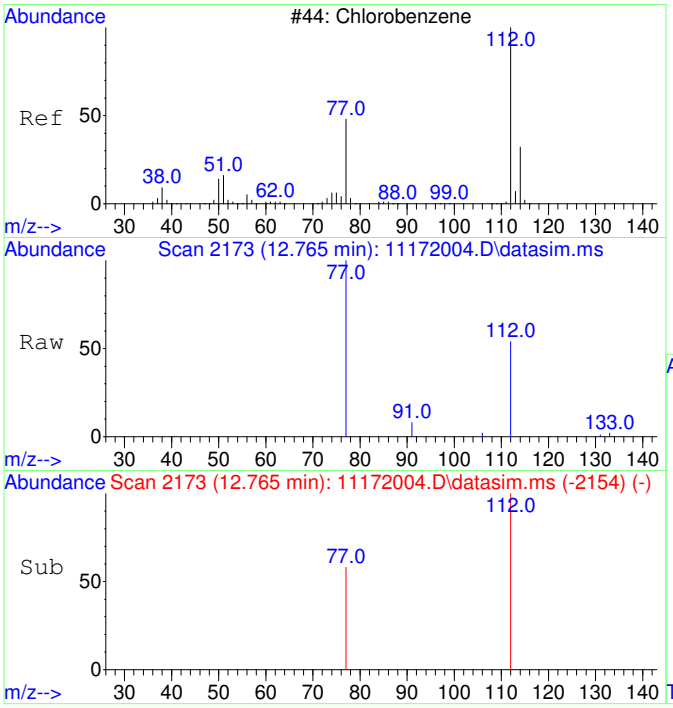


#15
Tetrachloroethene
Concen: 49.22 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:166 Resp: 2148

Ion	Ratio	Lower	Upper
166	100		
164	79.4	47.8	107.8

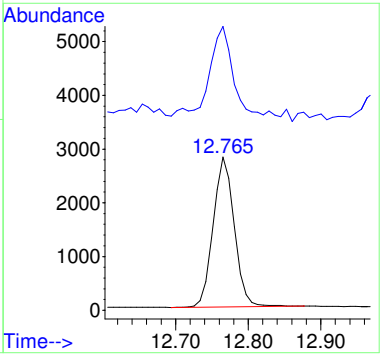


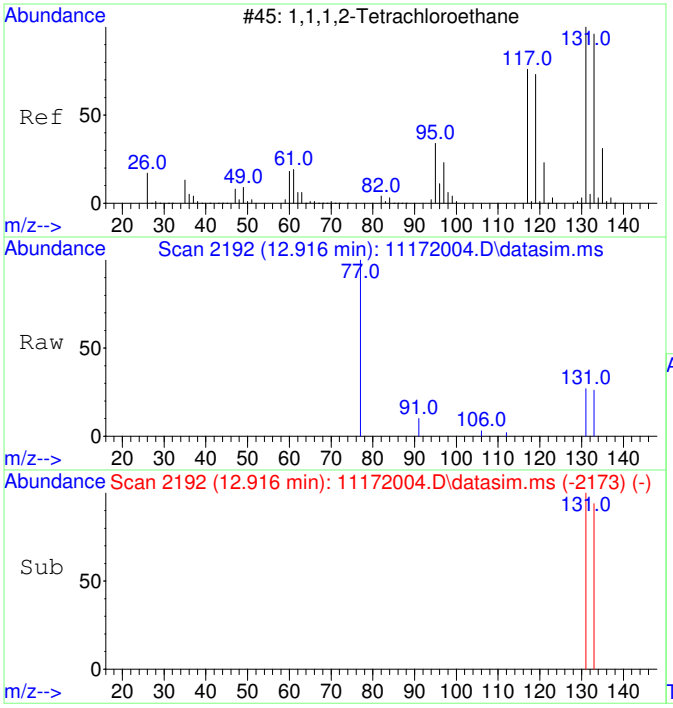


#16
Chlorobenzene
Concen: 52.20 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:112 Resp: 5637

Ion	Ratio	Lower	Upper
112	100		
77	64.7	23.6	83.6

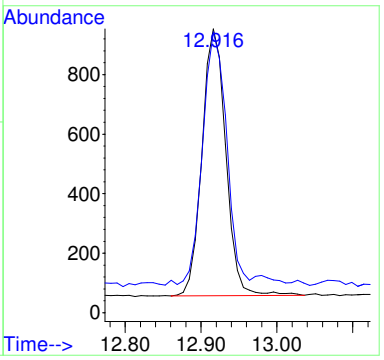


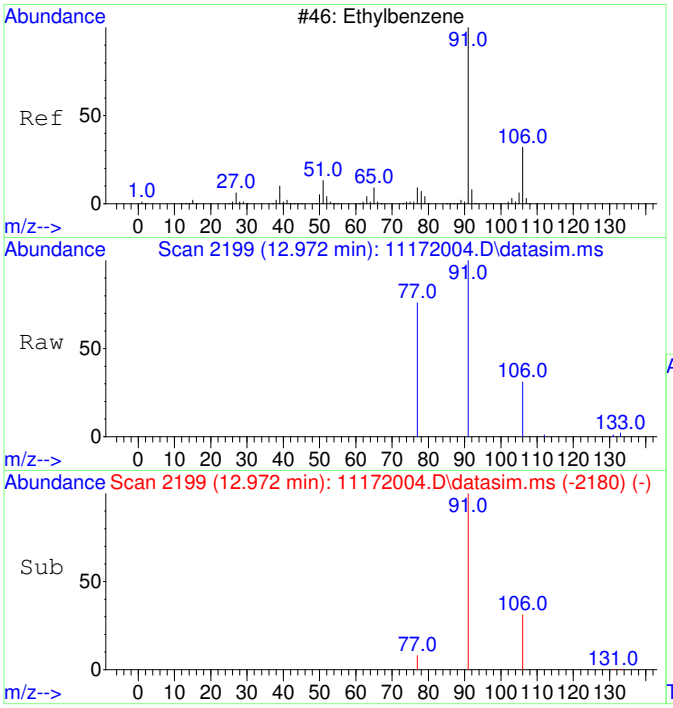


#17
1,1,1,2-Tetrachloroethane
Concen: 50.63 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:131 Resp: 1959

Ion	Ratio	Lower	Upper
131	100		
133	96.0	66.3	126.3

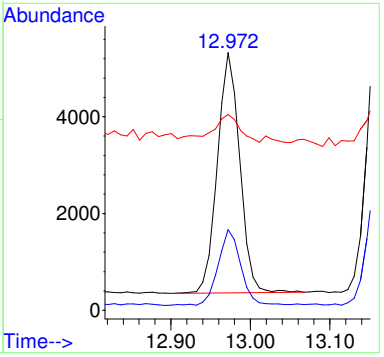


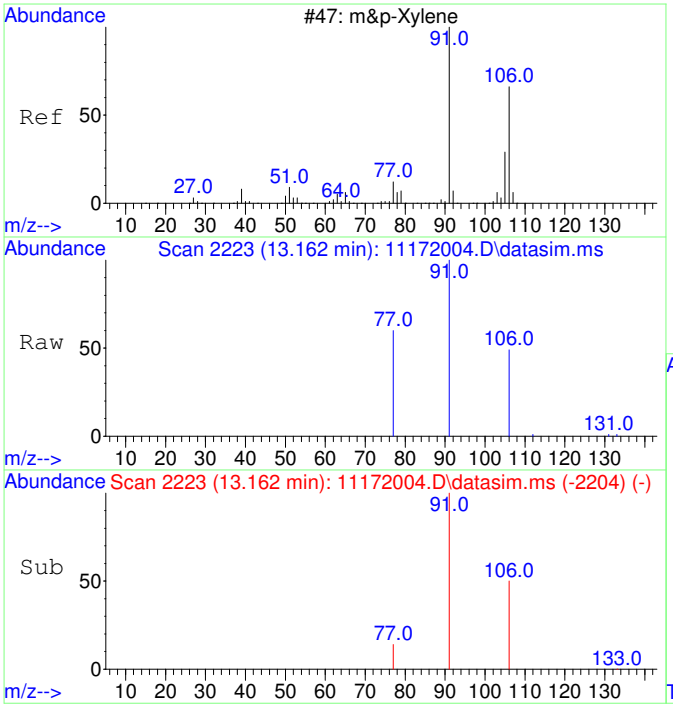


#18
Ethylbenzene
Concen: 52.93 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 9717

Ion	Ratio	Lower	Upper
91	100		
106	32.5	3.0	63.0
77	16.0	0.0	38.2

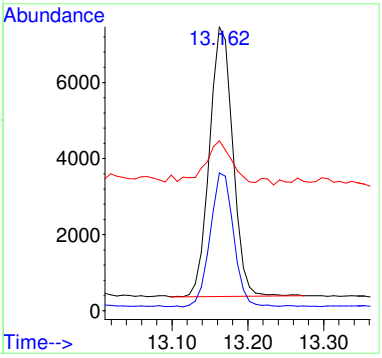


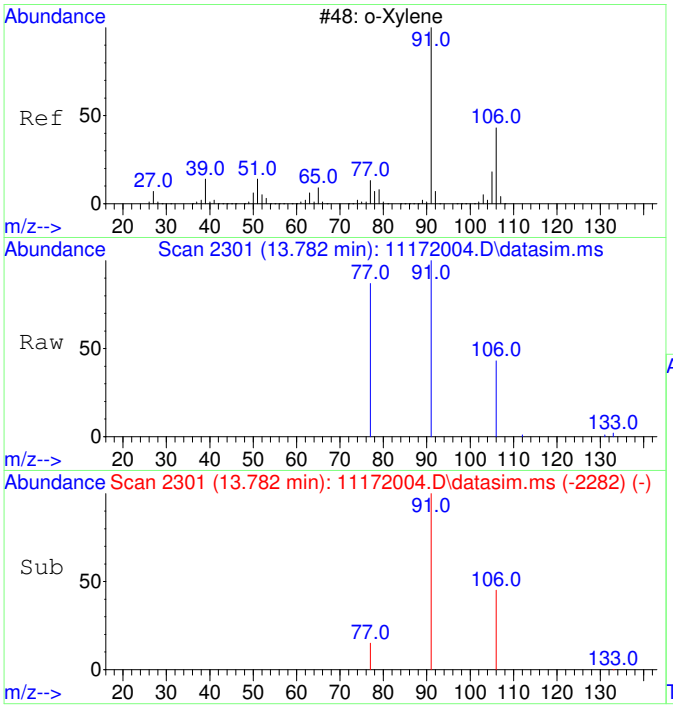


#19
m&p-Xylene
Concen: 105.54 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 15142

Ion	Ratio	Lower	Upper
91	100		
106	49.5	22.2	82.2
77	16.7	0.0	42.4

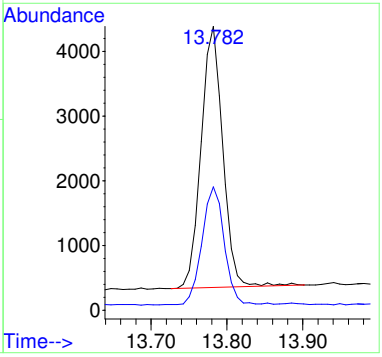


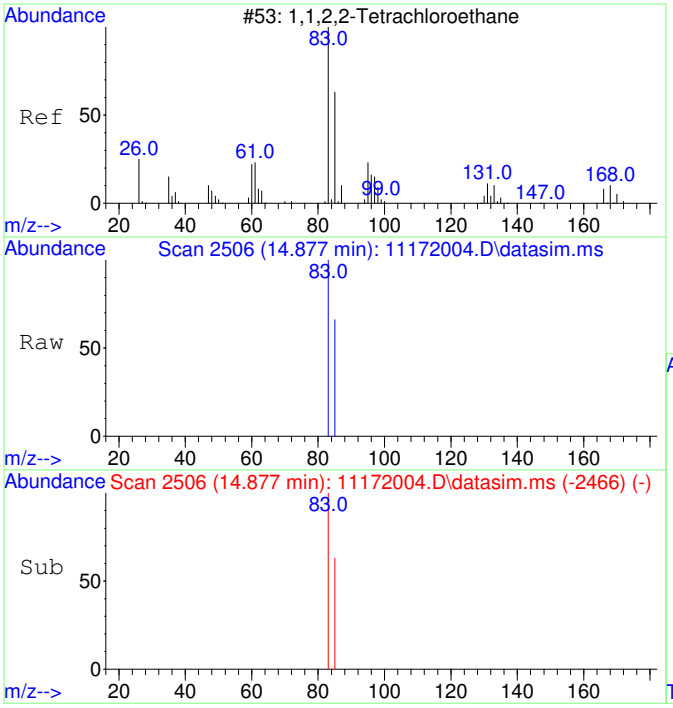


#20
o-Xylene
Concen: 52.20 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 8002

Ion	Ratio	Lower	Upper
91	100		
106	45.6	19.2	79.2

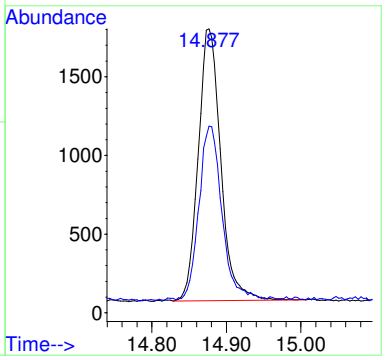


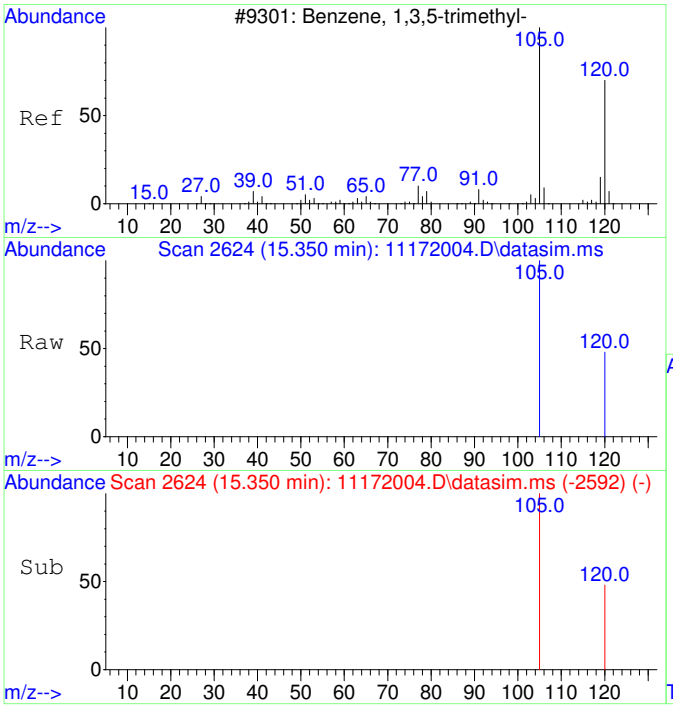


#21
1,1,2,2-Tetrachloroethane
Concen: 53.48 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 83 Resp: 3633

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.8	94.8

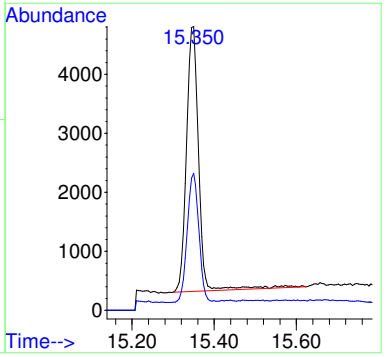


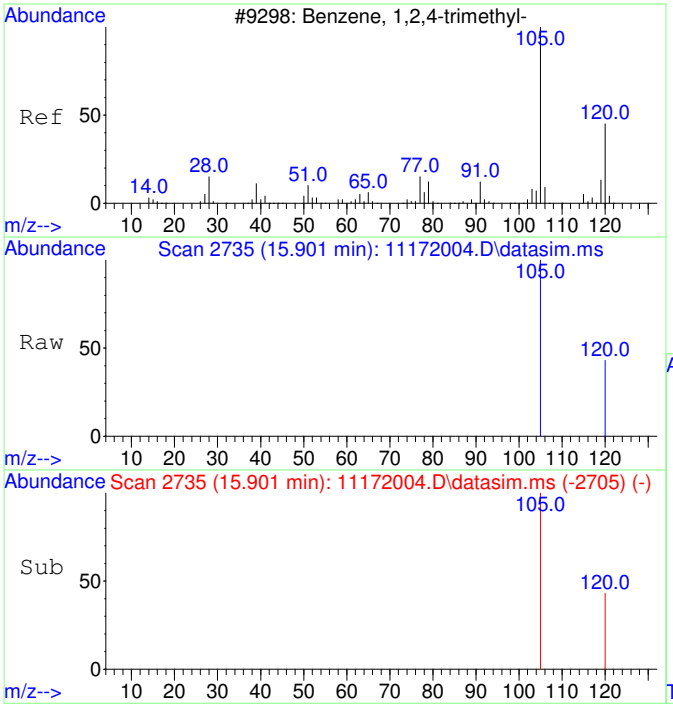


#22
1,3,5-Trimethylbenzene
Concen: 56.53 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:105 Resp: 9223

Ion	Ratio	Lower	Upper
105	100		
120	47.8	21.1	81.1

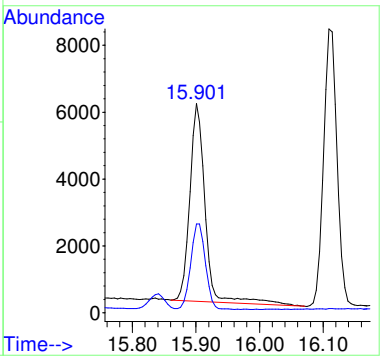


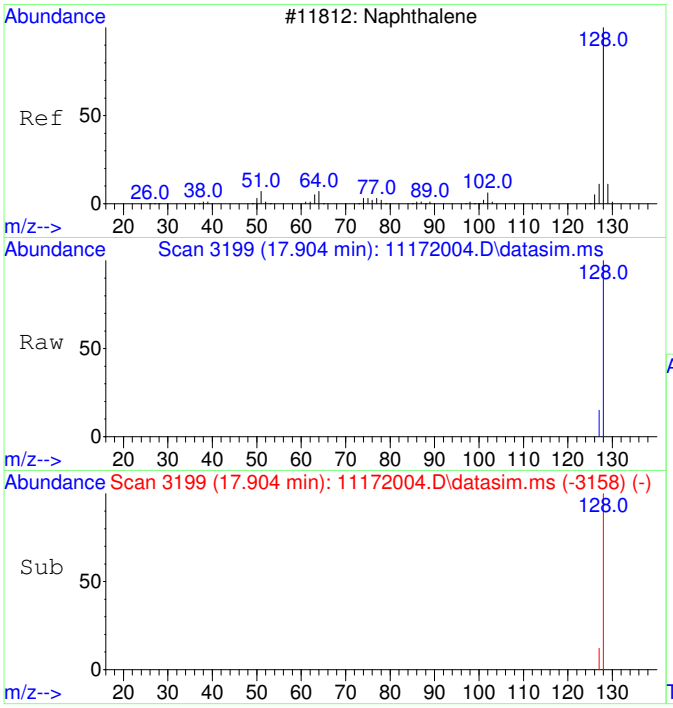


#23
1,2,4-Trimethylbenzene
Concen: 58.58 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:105 Resp: 9927

Ion	Ratio	Lower	Upper
105	100		
120	40.5	17.2	77.2

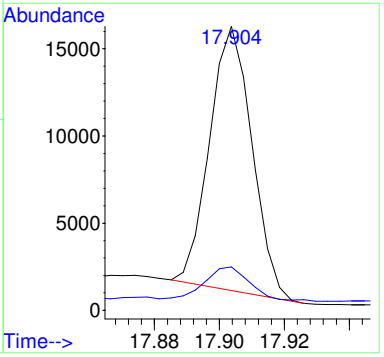


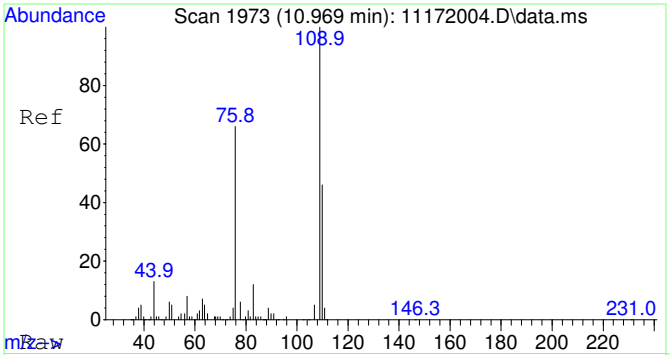


#24
Naphthalene
Concen: 50.79 ug/L
RT: 17.904 min Scan# 3199
Delta R.T. 0.001 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:128 Resp: 13603

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.5

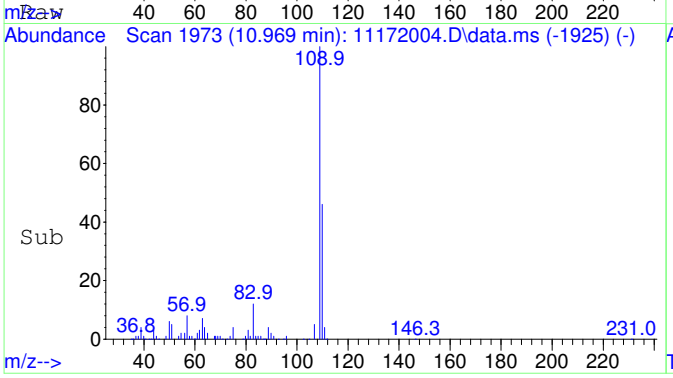


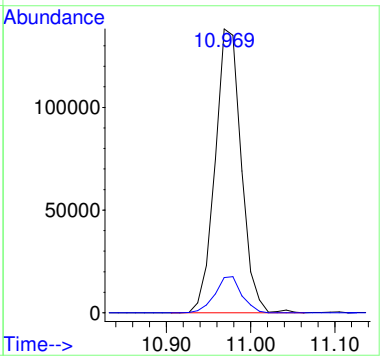


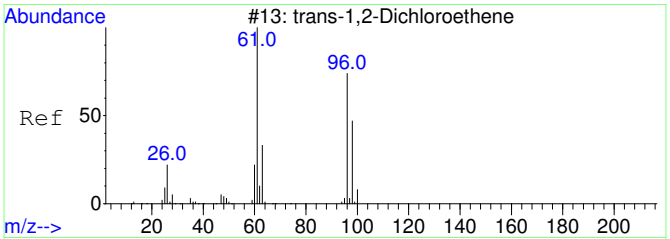
#25
2-Fluorotoluene SCAN
Concen: 5067.92 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:109 Resp: 298529

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.8



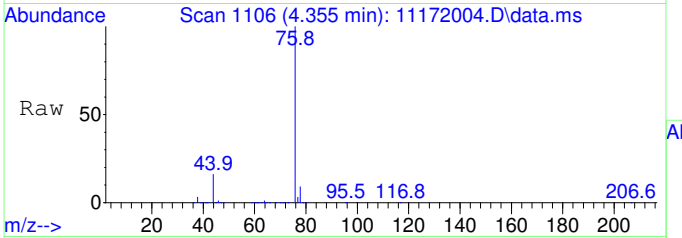


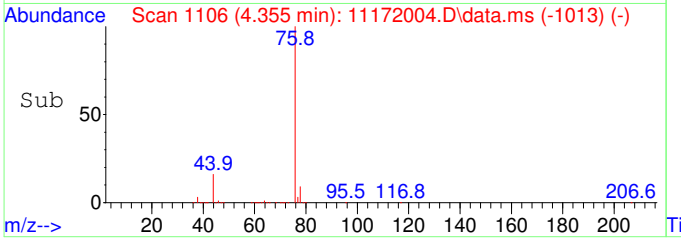


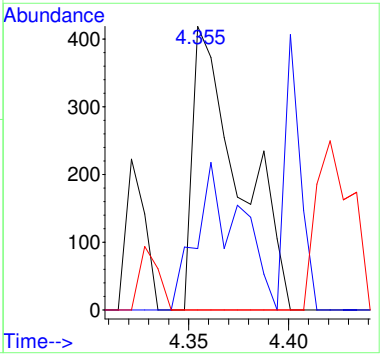
#27
trans-1,2-Dichloroethene SCAN
Concen: 43.99 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

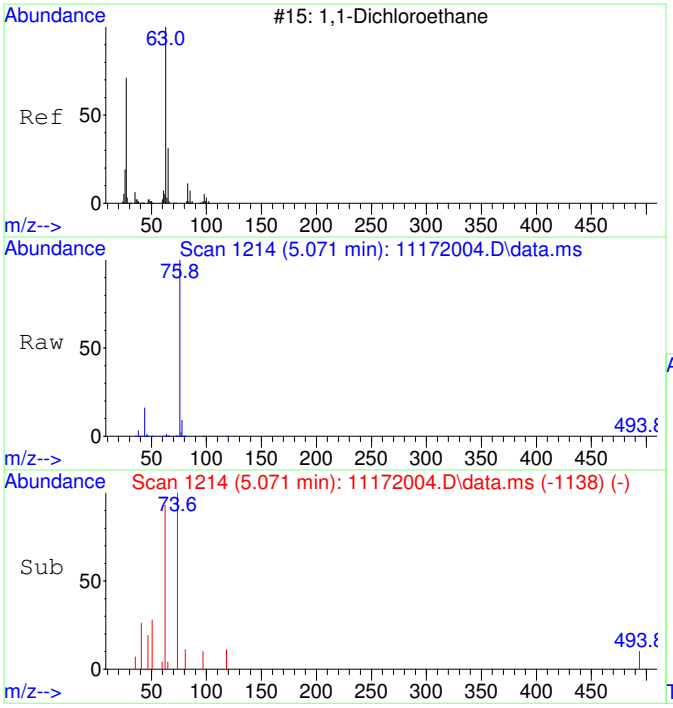
Tgt Ion: 61 Resp: 681

Ion	Ratio	Lower	Upper
61	100		
96	49.0	49.0	109.0
98	0.0	20.5	80.5#





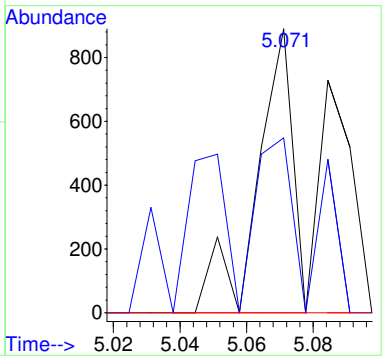


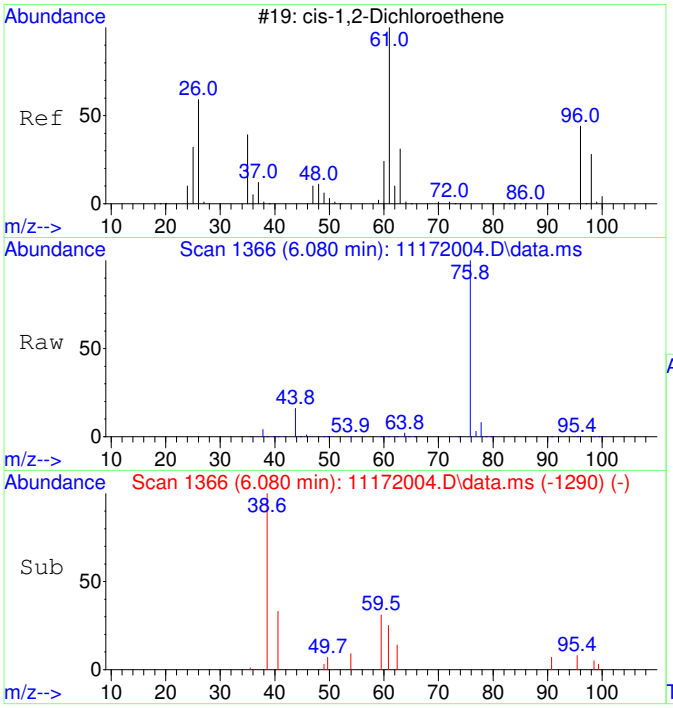


#28
1,1-Dichloroethane SCAN
Concen: 36.62 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 63 Resp: 656

Ion	Ratio	Lower	Upper
63	100		
65	92.5	1.3	61.3#
83	0.0	0.0	45.9

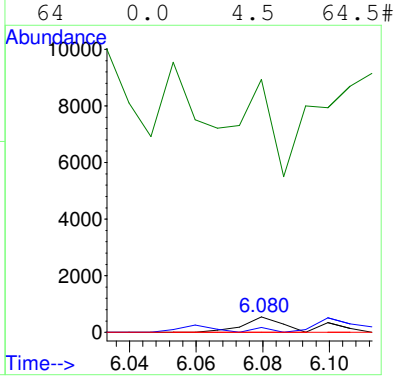


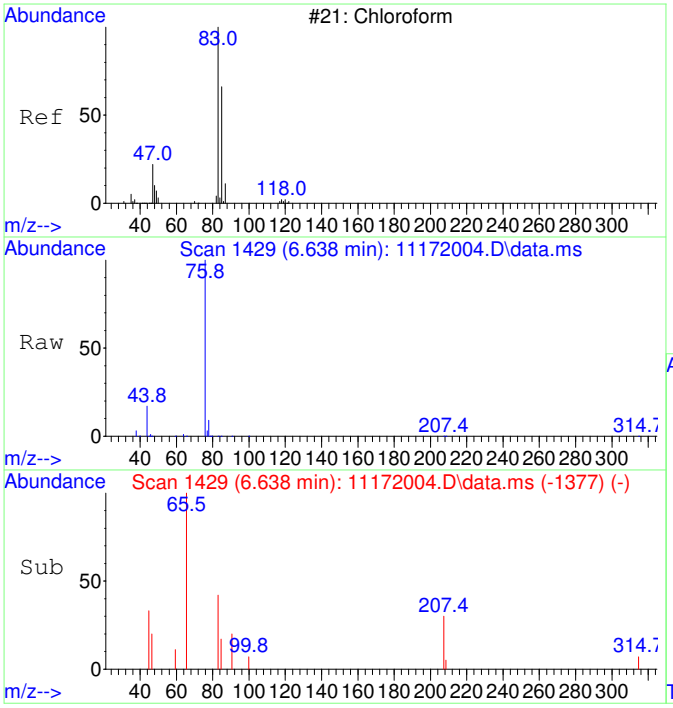


#29
cis-1,2-Dichloroethene SCAN
Concen: 22.56 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 433

Ion	Ratio	Lower	Upper
61	100		
96	43.4	39.9	99.9
98	0.0	13.5	73.5#
64	0.0	4.5	64.5#

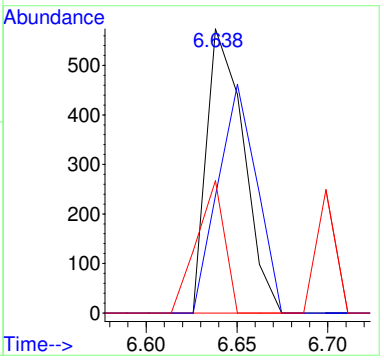


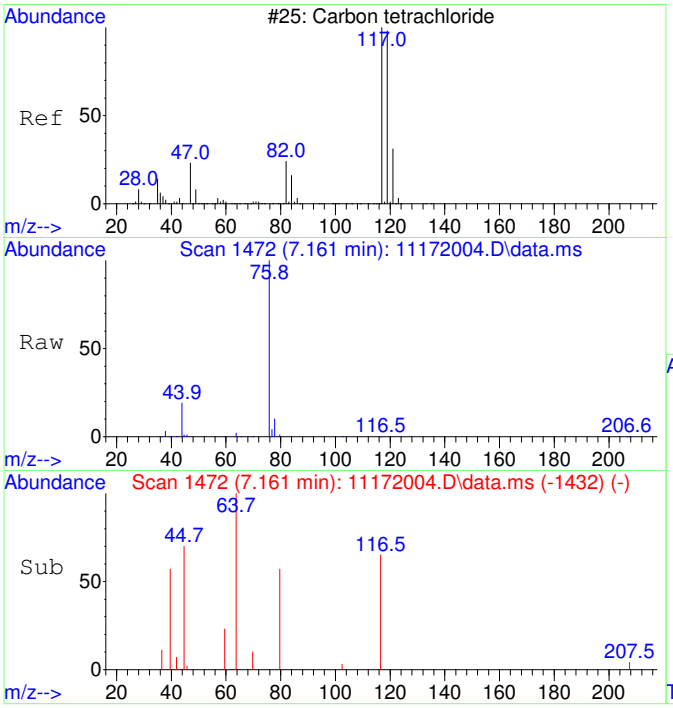


#30
Chloroform SCAN
Concen: 39.05 ug/L
RT: 6.638 min Scan# 1429
Delta R.T. -0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 83 Resp: 813

Ion	Ratio	Lower	Upper
83	100		
85	84.5	34.6	94.6
47	35.2	0.0	53.4

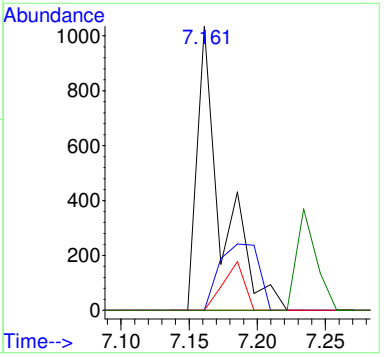


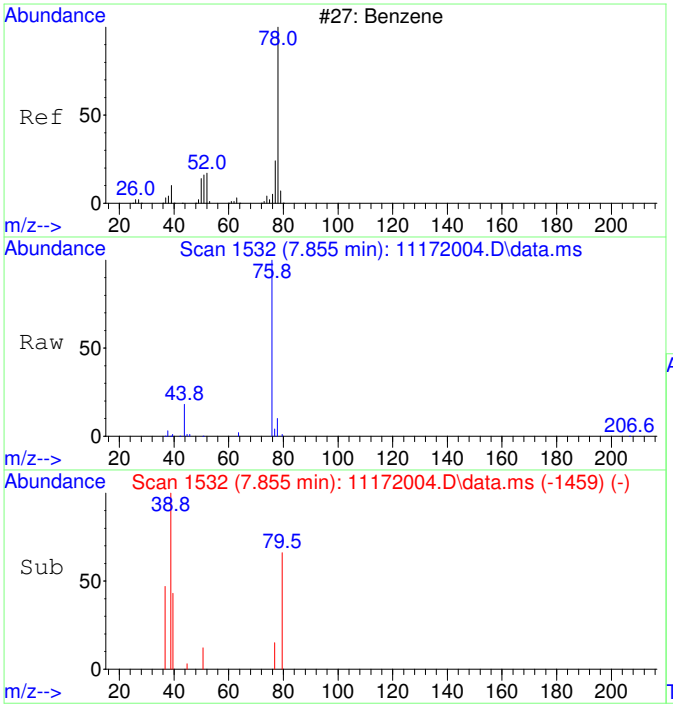


#32
Carbon tetrachloride SCAN
Concen: 65.99 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:117 Resp: 1306

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

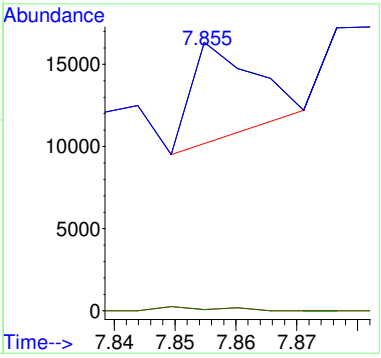


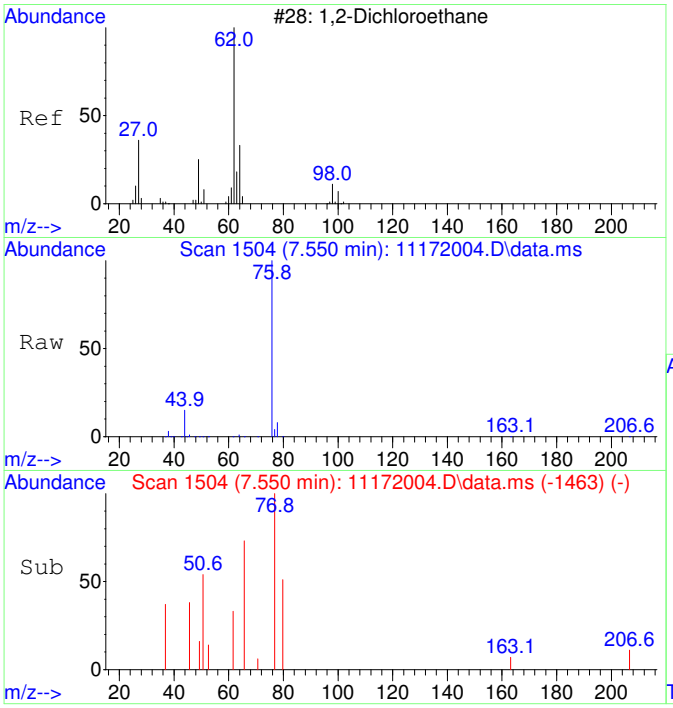


#33
Benzene SCAN
Concen: 87.74 ug/L
RT: 7.855 min Scan# 1532
Delta R.T. 0.353 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 78 Resp: 4583

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.8	0.0	47.9
51	3.8	0.0	44.1

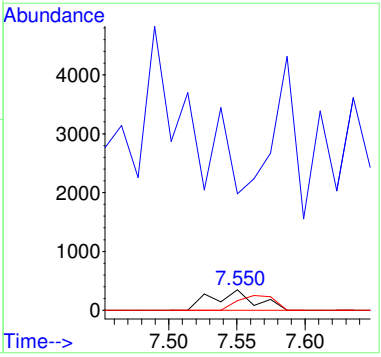


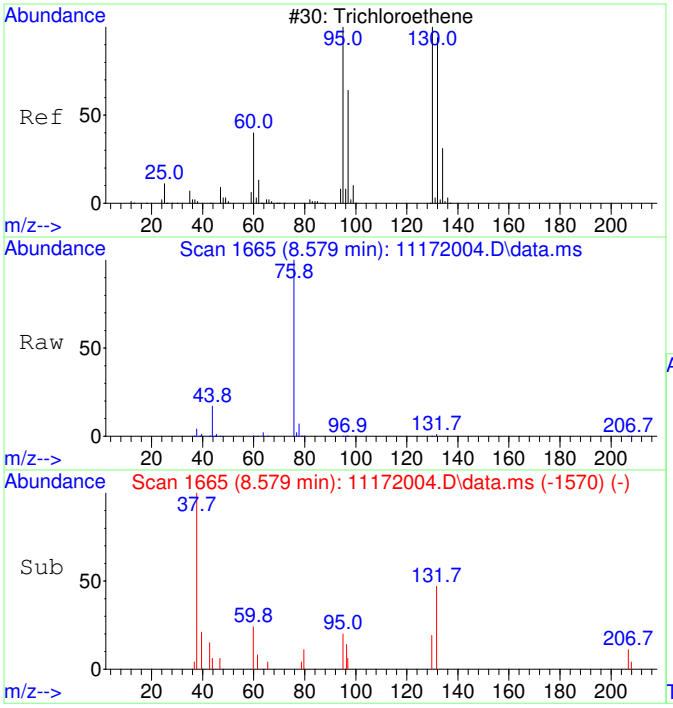


#34
1,2-Dichloroethane SCAN
Concen: 39.56 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 62 Resp: 763

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	62.1	3.9	63.9

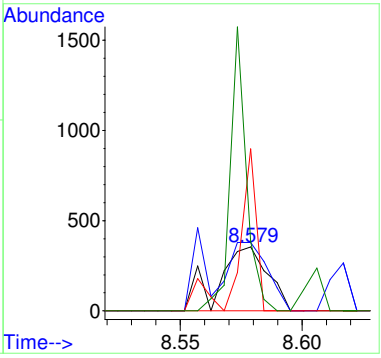


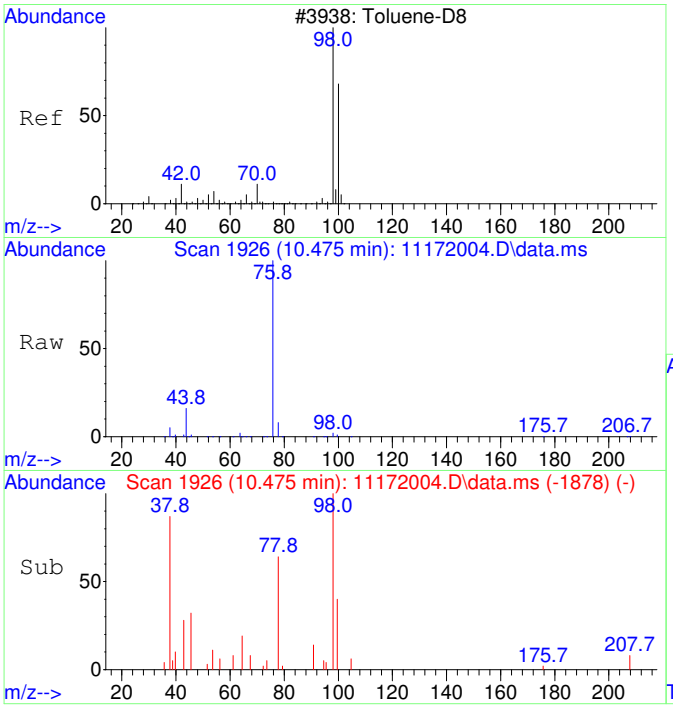


#35
Trichloroethene SCAN
Concen: 34.97 ug/L
RT: 8.579 min Scan# 1665
Delta R.T. 0.016 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:130 Resp: 502

Ion	Ratio	Lower	Upper
130	100		
95	70.7	60.5	120.5
132	72.3	59.6	119.6
97	145.2	28.2	88.2#

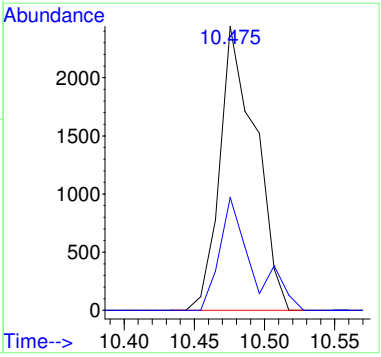


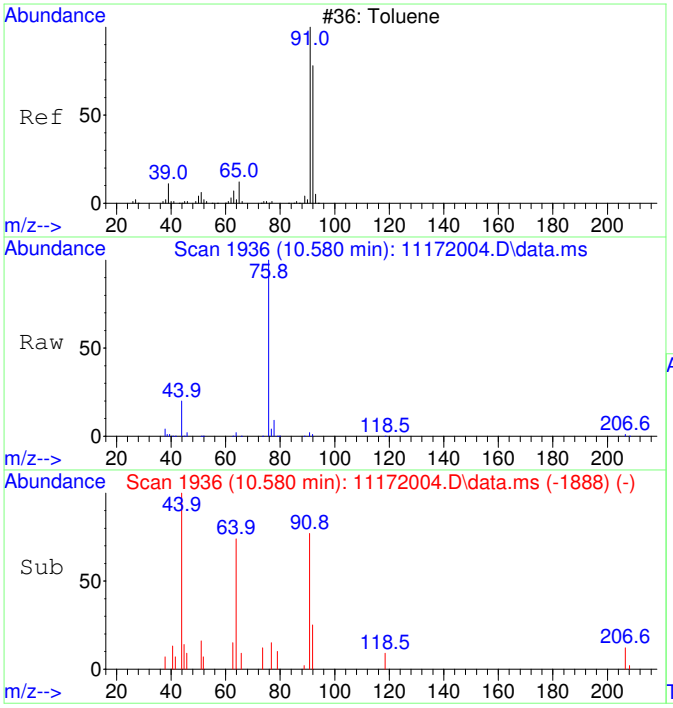


#36
Toluene-d8 SCAN
Concen: 75.68 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 98 Resp: 4360

Ion	Ratio	Lower	Upper
98	100		
100	36.2	40.0	100.0#

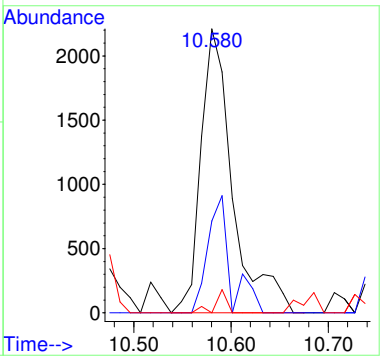


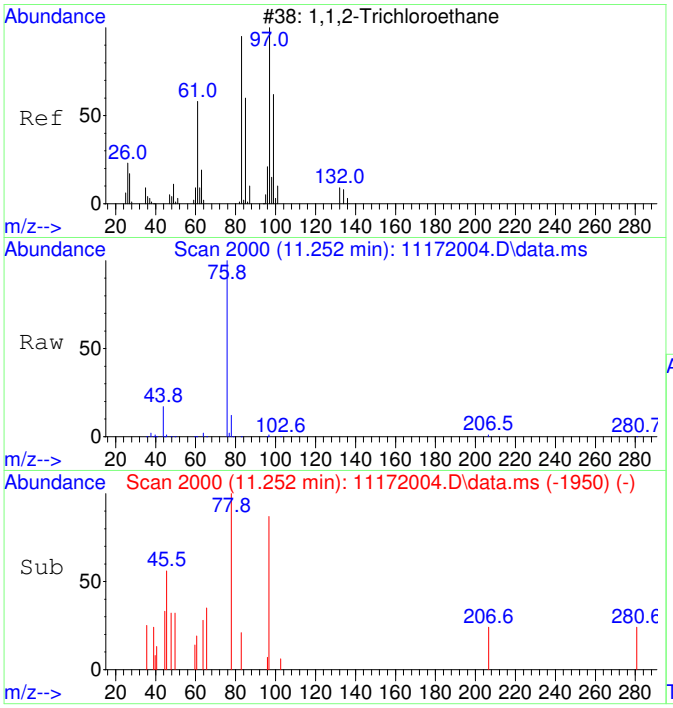


#37
Toluene SCAN
Concen: 68.33 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 5041

Ion	Ratio	Lower	Upper
91	100		
92	29.4	28.3	88.3
65	2.9	0.0	41.0

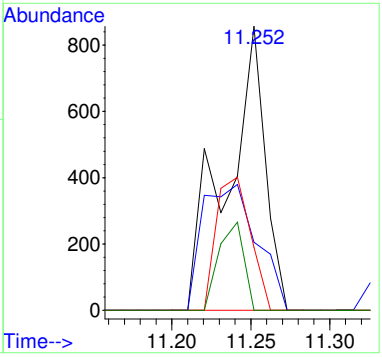


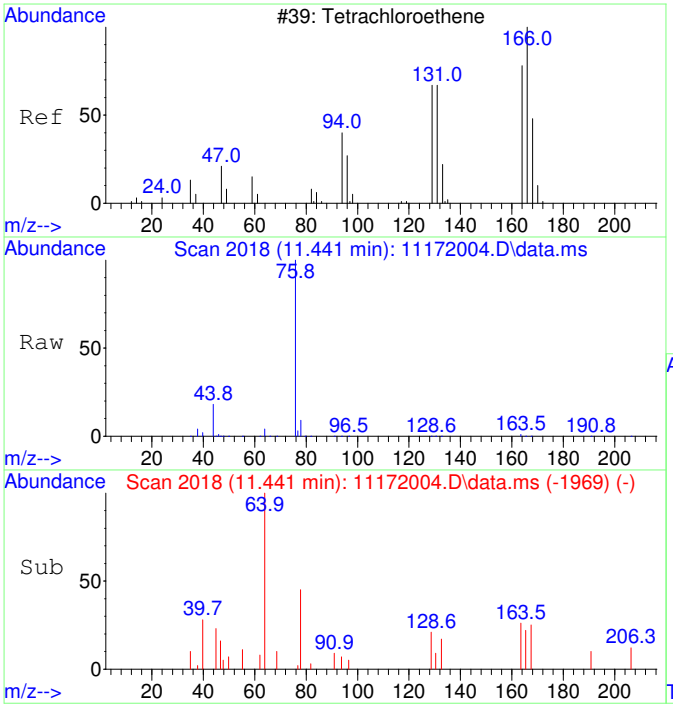


#38
1,1,2-Trichloroethane SCAN
Concen: 88.29 ug/L
RT: 11.252 min Scan# 2000
Delta R.T. 0.021 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 97 Resp: 1462

Ion	Ratio	Lower	Upper
97	100		
83	62.2	57.7	117.7
61	41.3	32.1	92.1
99	20.1	36.7	96.7#

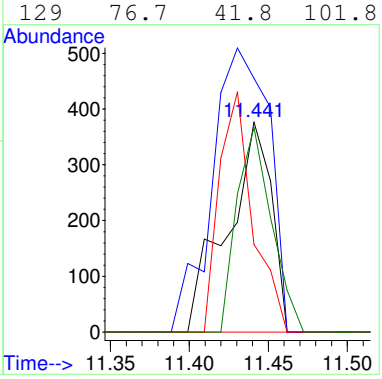


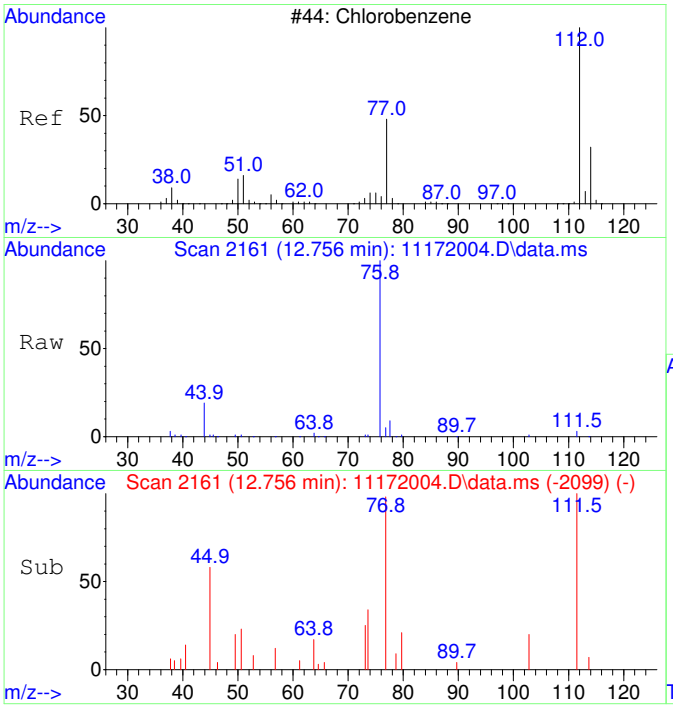


#39
Tetrachloroethene SCAN
Concen: 41.47 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:166 Resp: 735

Ion	Ratio	Lower	Upper
166	100		
164	173.9	50.9	110.9#
131	86.7	38.7	98.7
129	76.7	41.8	101.8

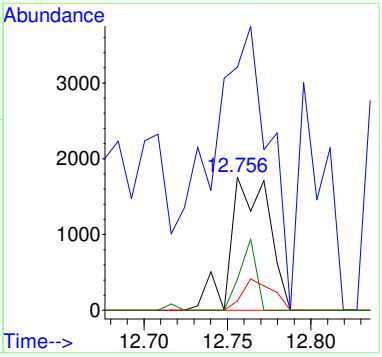


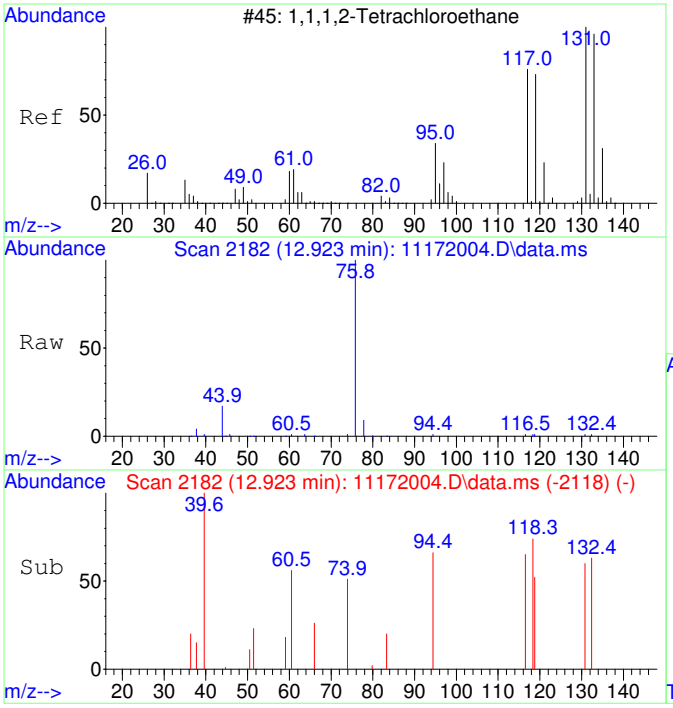


#40
Chlorobenzene SCAN
Concen: 56.45 ug/L
RT: 12.756 min Scan# 2161
Delta R.T. -0.008 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:112 Resp: 2846

Ion	Ratio	Lower	Upper
112	100		
77	214.2	28.2	88.2#
114	18.3	2.3	62.3
51	22.6	0.0	50.1

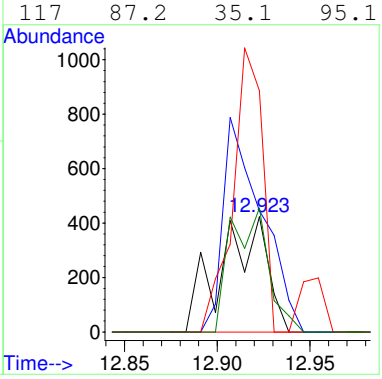


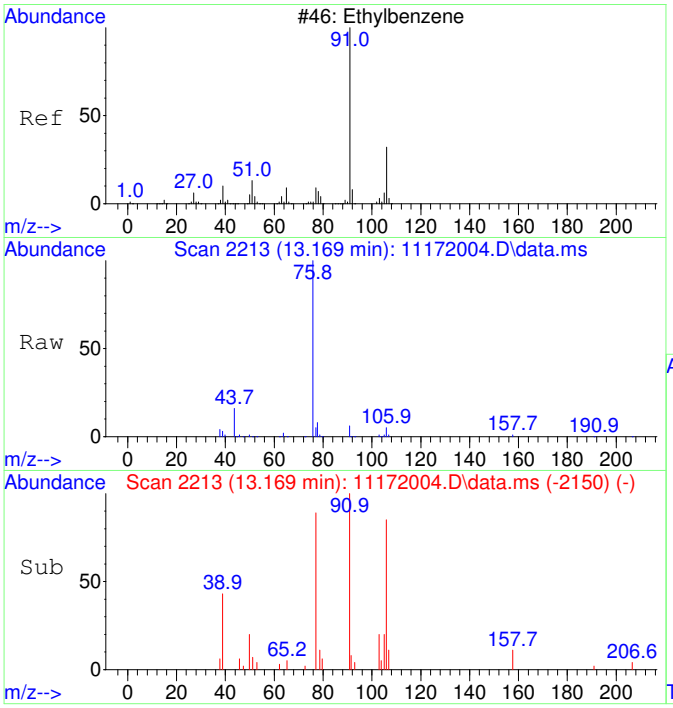


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 39.77 ug/L
RT: 12.923 min Scan# 2182
Delta R.T. 0.008 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:131 Resp: 742

Ion	Ratio	Lower	Upper
131	100		
133	154.7	66.9	126.9#
119	157.1	40.4	100.4#
117	87.2	35.1	95.1

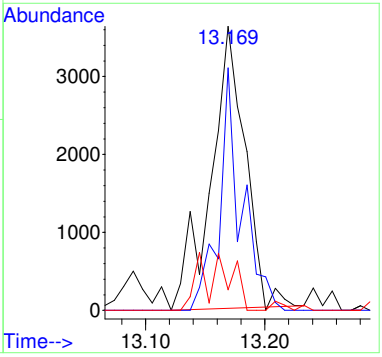


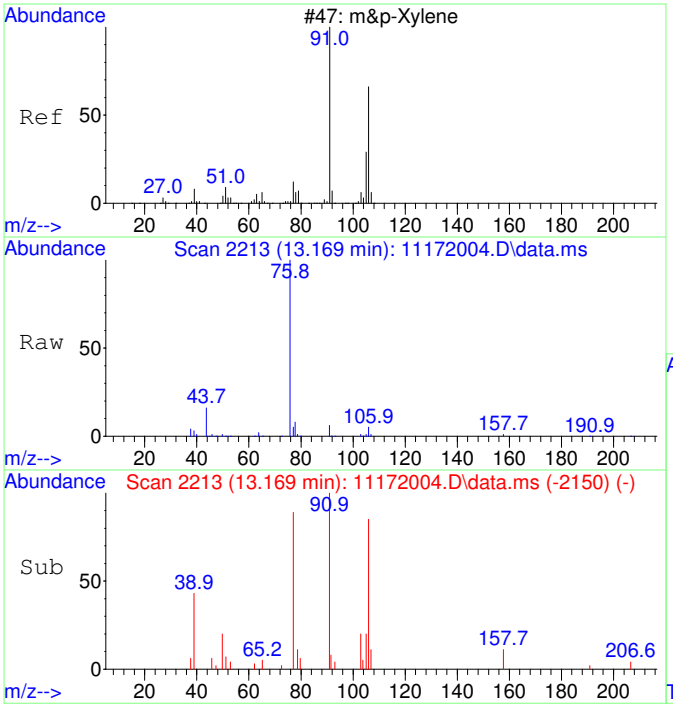


#42
Ethylbenzene SCAN
Concen: 53.91 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 7246

Ion	Ratio	Lower	Upper
91	100		
106	55.3	23.1	83.1
51	9.5	0.0	40.1

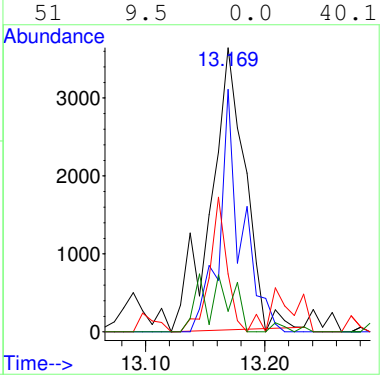


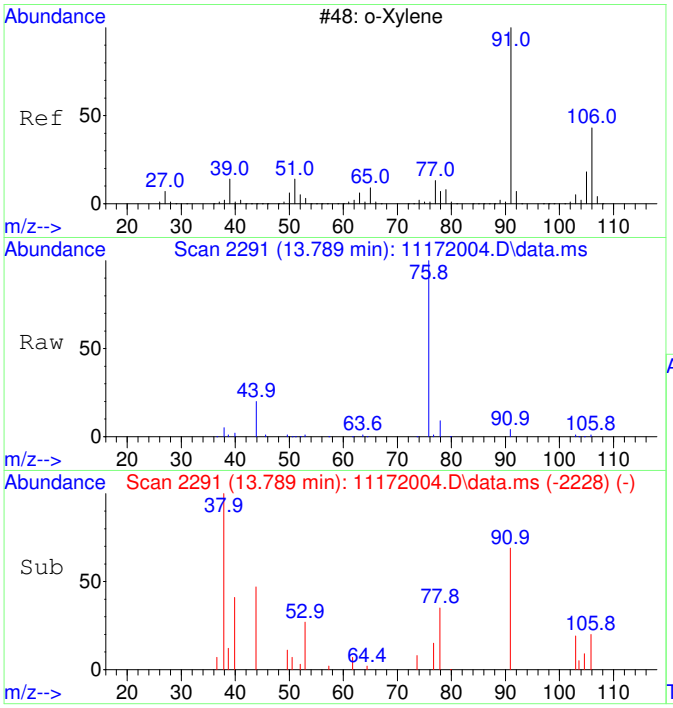


#43
m&p-Xylene SCAN
Concen: 53.91 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 7246

Ion	Ratio	Lower	Upper
91	100		
106	55.3	23.1	83.1
105	23.9	0.0	54.7
51	9.5	0.0	40.1

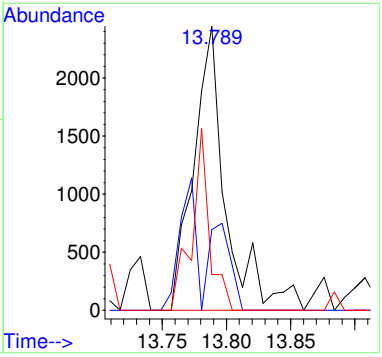


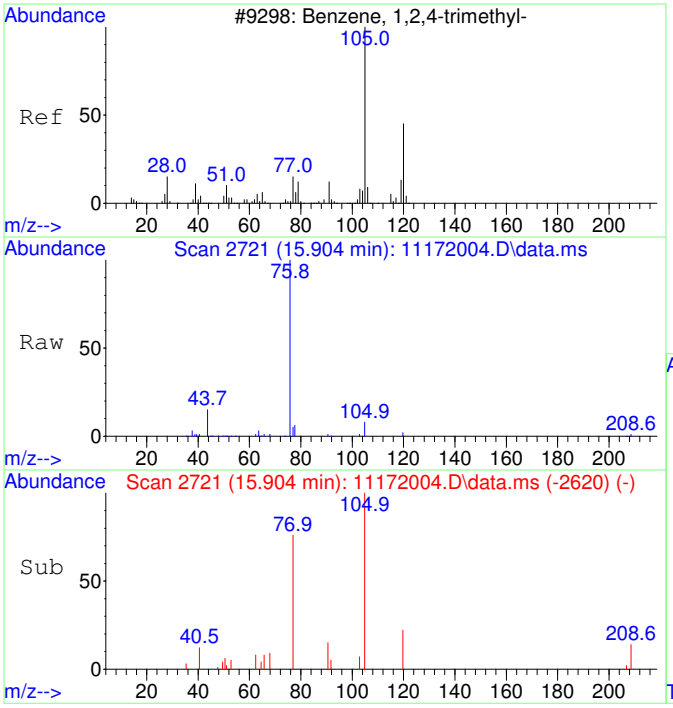


#44
o-Xylene SCAN
Concen: 59.48 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 4279

Ion	Ratio	Lower	Upper
91	100		
106	20.4	18.0	78.0
105	35.0	0.0	56.6

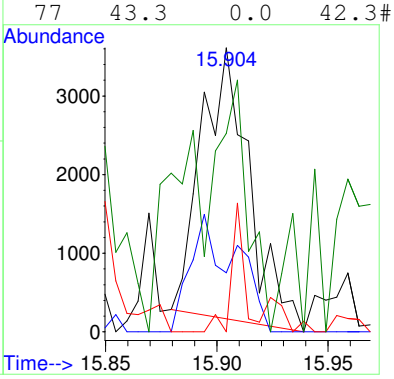


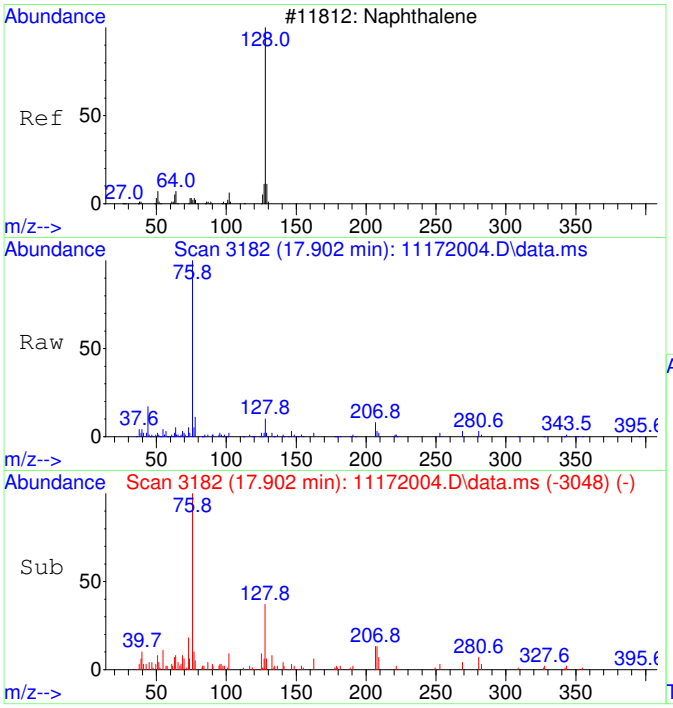


#47
1,2,4-Trimethylbenzene SCAN
Concen: 66.05 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:105 Resp: 5124

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.9	76.9#
119	10.1	0.0	41.9
77	43.3	0.0	42.3#

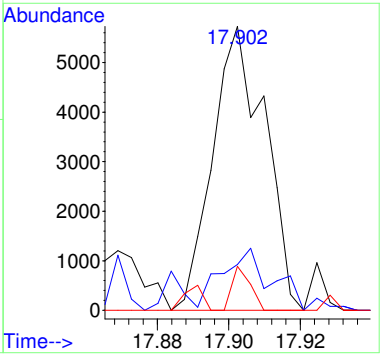




#48
Naphthalene SCAN
Concen: 49.60 ug/L
RT: 17.902 min Scan# 3182
Delta R.T. -0.003 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:128 Resp: 5823

Ion	Ratio	Lower	Upper
128	100		
127	19.6	0.0	44.0
129	5.4	0.0	40.8



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172004.D
Acq On : 17 Nov 2020 9:05
InstName : AG5975C
Operator : TD
Sample : S20K066-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

M.I. Performed By:
TD at 12:20 pm, Nov 17, 2020

M.I. Approved By:
ZR at 3:35 pm, Nov 23, 2020

Quant Time: Nov 17 09:24:41 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

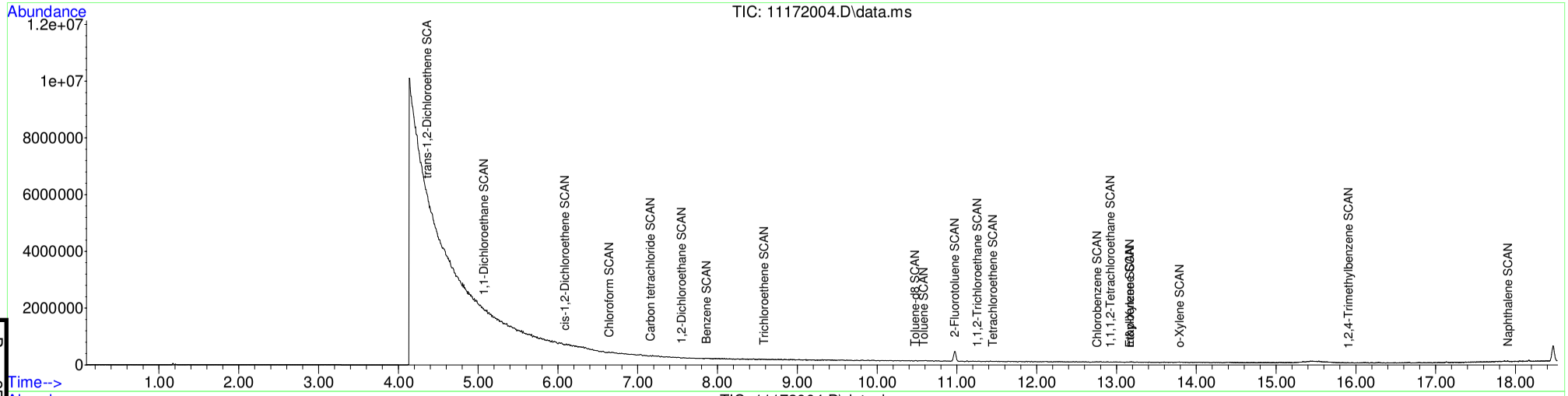
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	604274	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	5876	49.67	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	1103m	45.71	ug/L	
3] trans-1,2-Dichloroethene	4.356	61	1249	44.80	ug/L	60
4] 1,1-Dichloroethane	5.079	63	1612	46.45	ug/L #	30
5] cis-1,2-Dichloroethene	6.081	61	1718	46.90	ug/L	99
6] Chloroform	6.652	83	1688	45.02	ug/L	93
7] 1,1,1-Trichloroethane	6.907	97	1798	44.16	ug/L	96
8] Carbon tetrachloride	7.187	117	1697	44.28	ug/L	99
9] Benzene	7.503	78	5827	56.75	ug/L	59
10] 1,2-Dichloroethane	7.552	62	1647	44.94	ug/L #	1
11] Trichloroethene	8.569	130	1508	48.78	ug/L	93
13] Toluene	10.582	91	7647	50.71	ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	1661	50.54	ug/L	97
15] Tetrachloroethene	11.432	166	2148	49.22	ug/L	98
16] Chlorobenzene	12.765	112	5637	52.20	ug/L	84
17] 1,1,1,2-Tetrachloroethane	12.916	131	1959	50.63	ug/L	100
18] Ethylbenzene	12.972	91	9717	52.93	ug/L	95
19] m&p-Xylene	13.162	91	15142	105.54	ug/L	95
20] o-Xylene	13.782	91	8002	52.20	ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.877	83	3633	53.48	ug/L	99
22] 1,3,5-Trimethylbenzene	15.350	105	9223	56.53	ug/L	95
23] 1,2,4-Trimethylbenzene	15.901	105	9927	58.58	ug/L	90
24] Naphthalene	17.904	128	13603	50.79	ug/L	98
25) 2-Fluorotoluene SCAN	10.969	109	298529	5067.92	ug/L	98
27) trans-1,2-Dichloroethe...	4.355	61	681	43.99	ug/L #	51
28) 1,1-Dichloroethane SCAN	5.071	63	656	36.62	ug/L #	14
29) cis-1,2-Dichloroethene...	6.080	61	433	22.56	ug/L #	51
30) Chloroform SCAN	6.638	83	813	39.05	ug/L	75
32) Carbon tetrachloride SCAN	7.161	117	1306	65.99	ug/L #	15
33) Benzene SCAN	7.855	78	4583	87.74	ug/L	93
34) 1,2-Dichloroethane SCAN	7.550	62	763	39.56	ug/L #	45
35) Trichloroethene SCAN	8.579	130	502	34.97	ug/L #	57
36) Toluene-d8 SCAN	10.475	98	4360	75.68	ug/L #	59
37) Toluene SCAN	10.580	91	5041	68.33	ug/L	64
38) 1,1,2-Trichloroethane ...	11.252	97	1462	88.29	ug/L #	63
39) Tetrachloroethene SCAN	11.441	166	735	41.47	ug/L #	53
40) Chlorobenzene SCAN	12.756	112	2846	56.45	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.923	131	742	39.77	ug/L #	36
42) Ethylbenzene SCAN	13.169	91	7246	53.91	ug/L	97
43) m&p-Xylene SCAN	13.169	91	7246	53.91	ug/L	98
44) o-Xylene SCAN	13.789	91	4279	59.48	ug/L	68
47) 1,2,4-Trimethylbenzene...	15.904	105	5124	66.05	ug/L #	39
48) Naphthalene SCAN	17.902	128	5823	49.60	ug/L	86

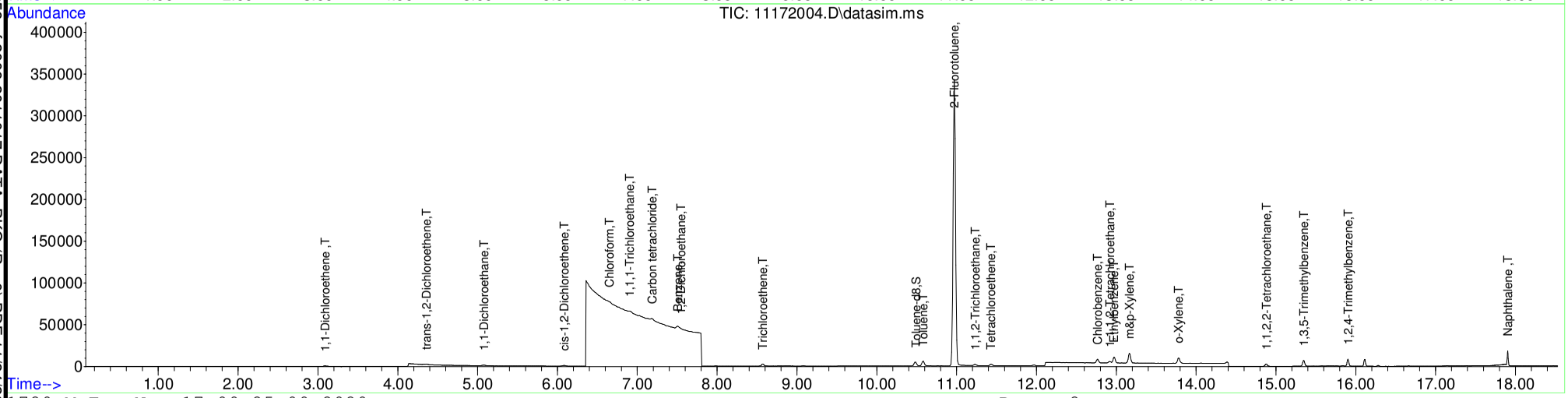
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172004.D
Acq On : 17 Nov 2020 9:05
InstName : AG5975C
Operator : TD
Sample : S20K066-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 17 09:24:41 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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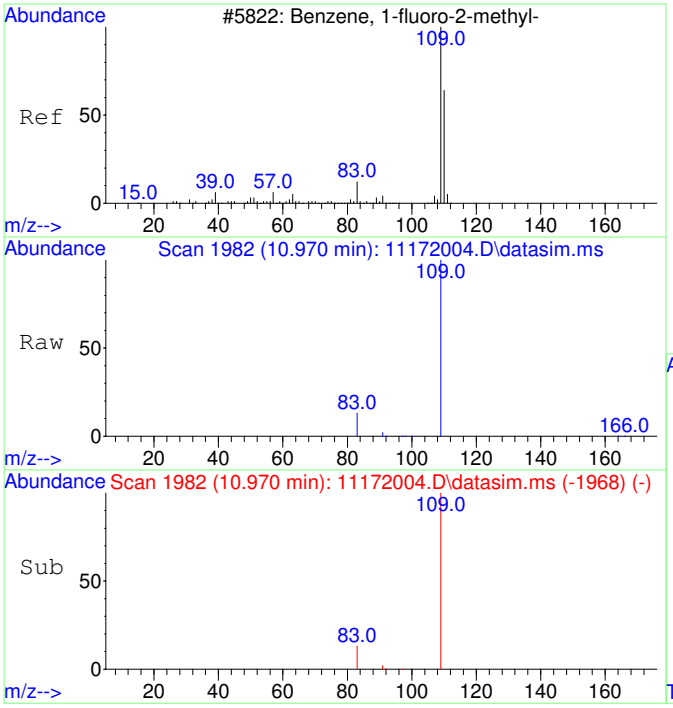
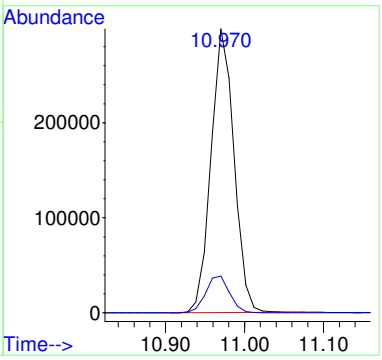
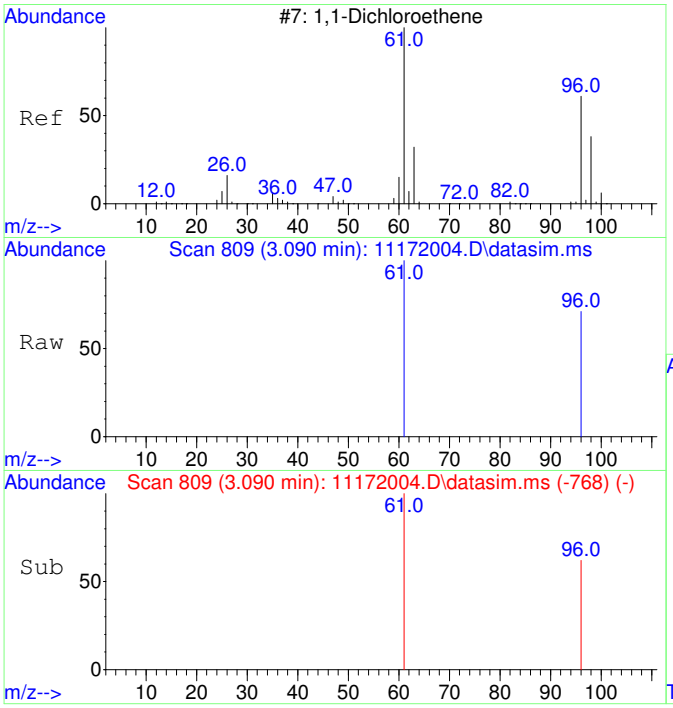


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:109 Resp: 604274

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

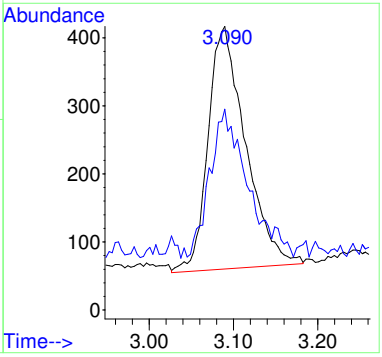


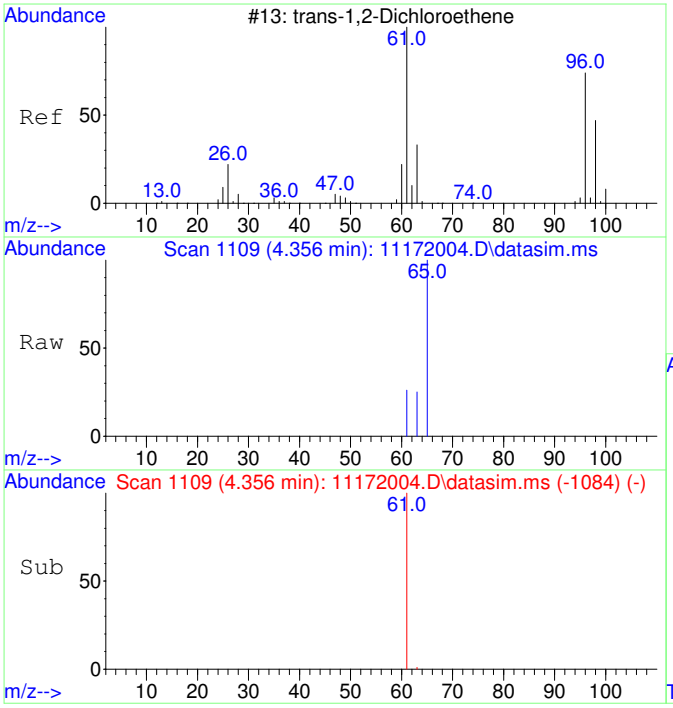


#2
1,1-Dichloroethene
Concen: 45.71 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 1103

Ion	Ratio	Lower	Upper
61	100		
96	77.5	37.2	97.2

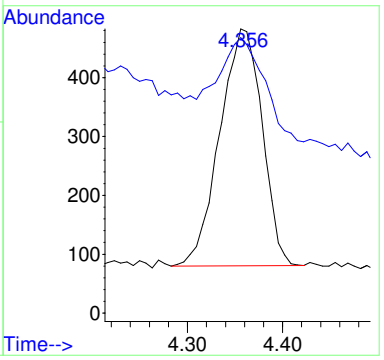


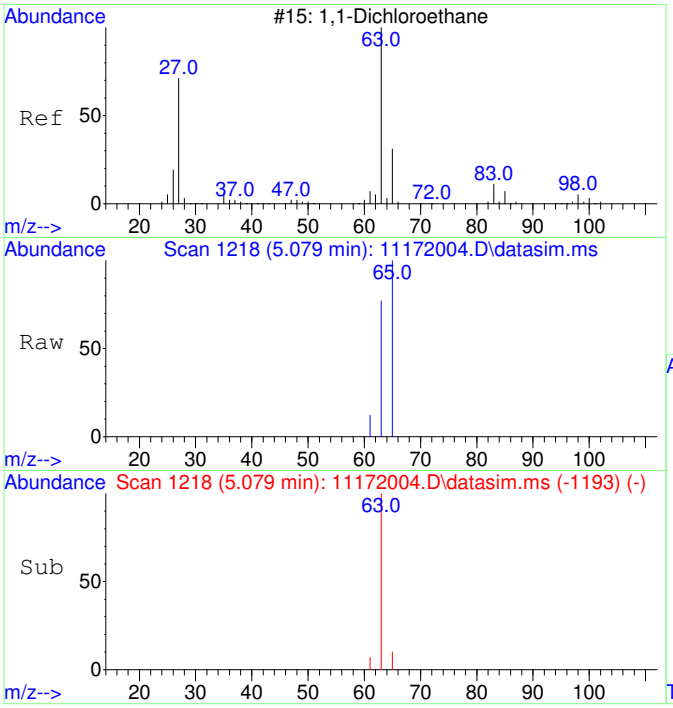


#3
trans-1,2-Dichloroethene
Concen: 44.80 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 1249

Ion	Ratio	Lower	Upper
61	100		
63	54.8	2.4	62.4

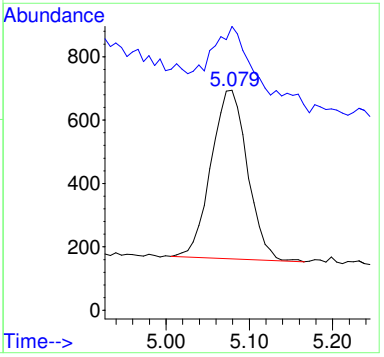


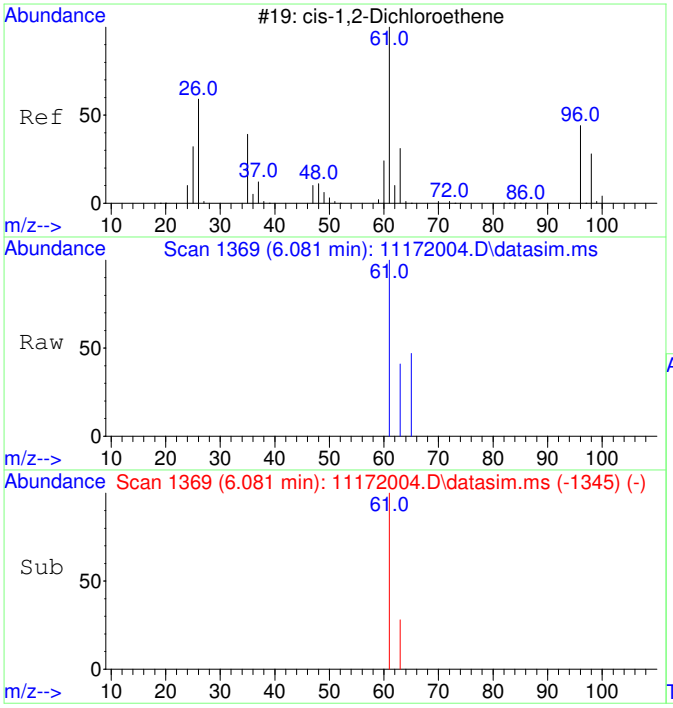


#4
1,1-Dichloroethane
Concen: 46.45 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 63 Resp: 1612

Ion	Ratio	Lower	Upper
63	100		
65	71.0	1.8	61.8#

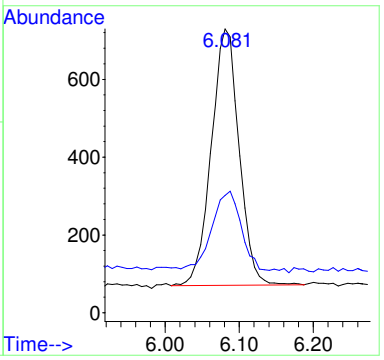


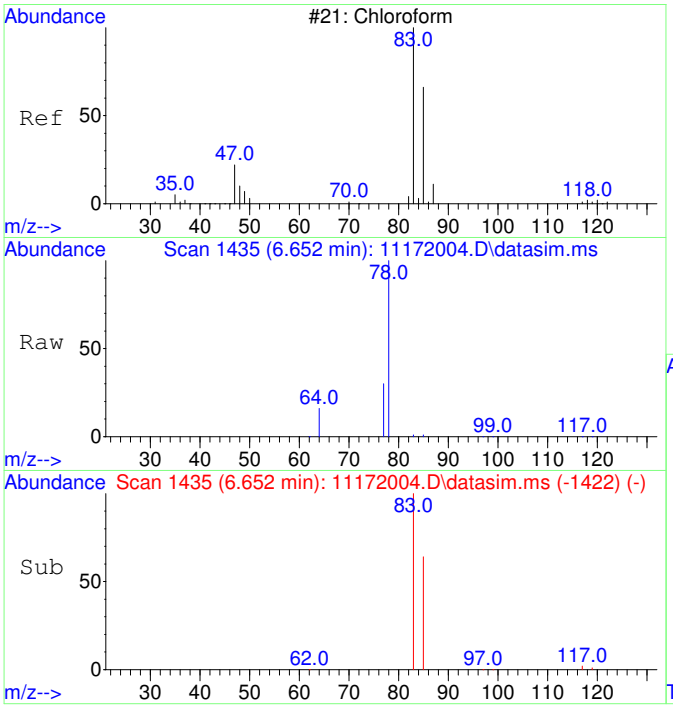


#5
cis-1,2-Dichloroethene
Concen: 46.90 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 1718

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.5	62.5

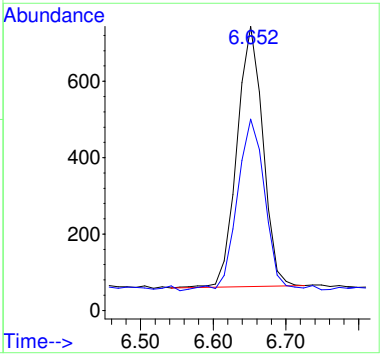


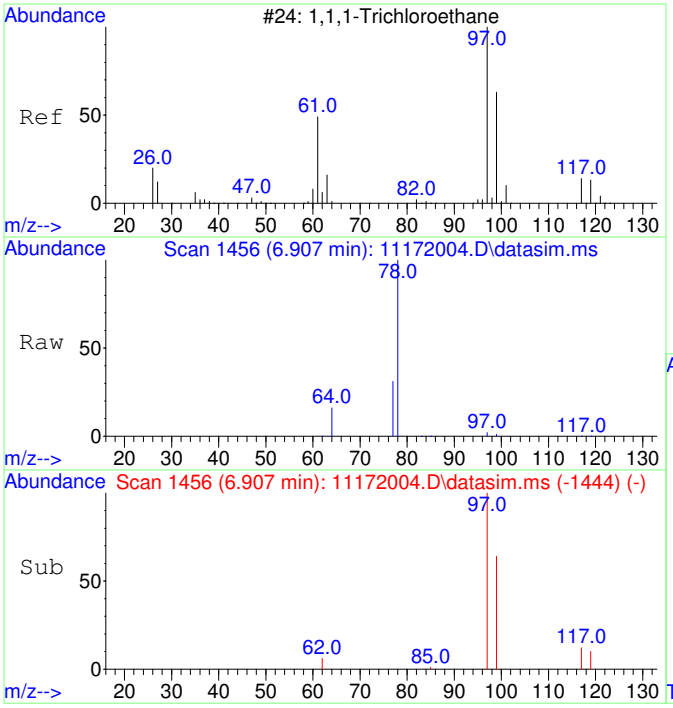


#6
Chloroform
Concen: 45.02 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 83 Resp: 1688

Ion	Ratio	Lower	Upper
83	100		
85	70.8	35.1	95.1

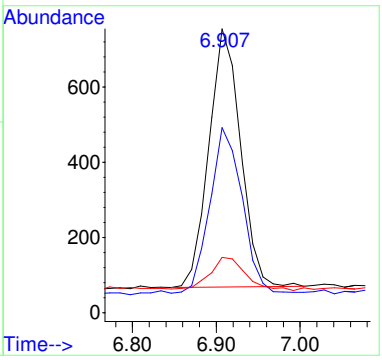


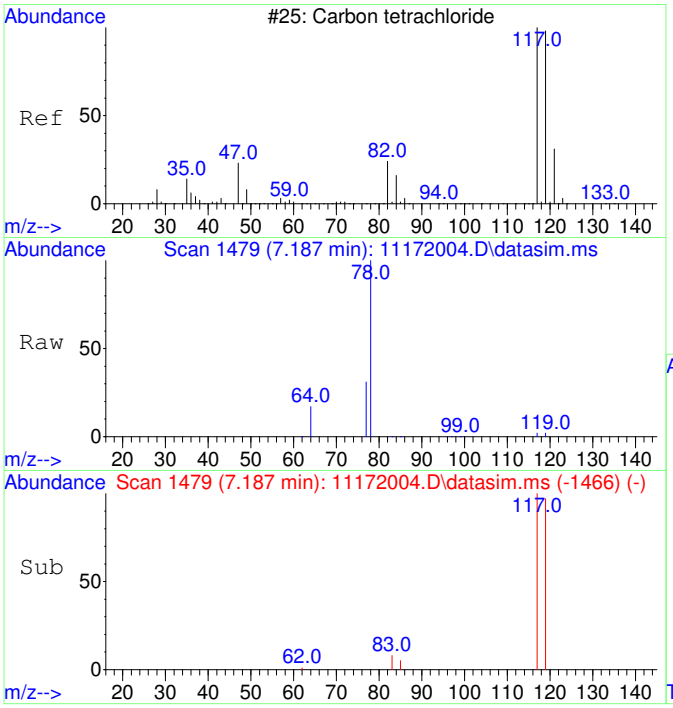


#7
1,1,1-Trichloroethane
Concen: 44.16 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 97 Resp: 1798

Ion	Ratio	Lower	Upper
97	100		
99	67.9	34.6	94.6
117	14.7	0.0	43.2

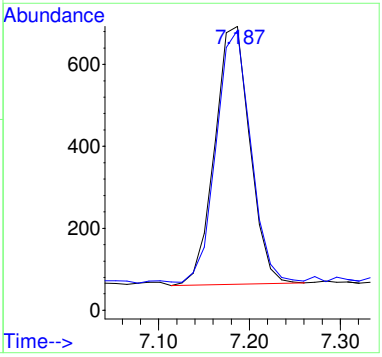


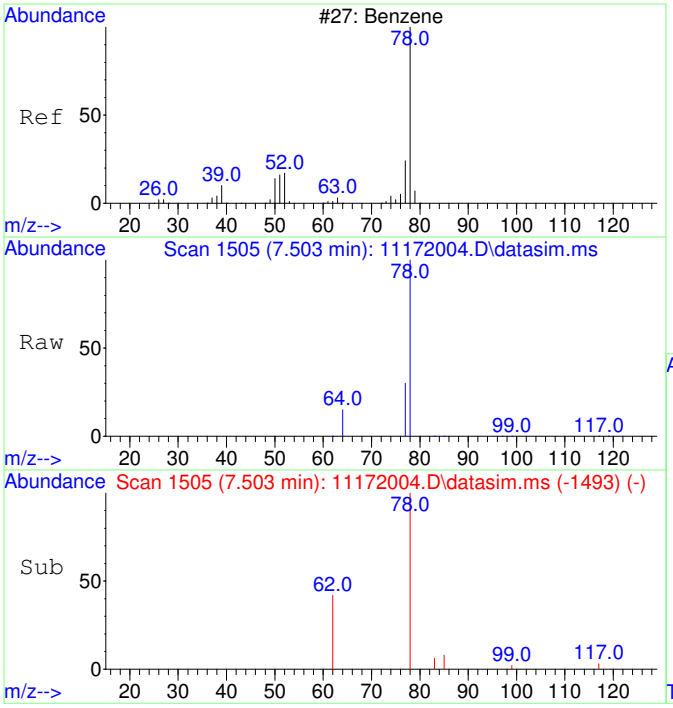


#8
Carbon tetrachloride
Concen: 44.28 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:117 Resp: 1697

Ion	Ratio	Lower	Upper
117	100		
119	95.6	66.4	126.4

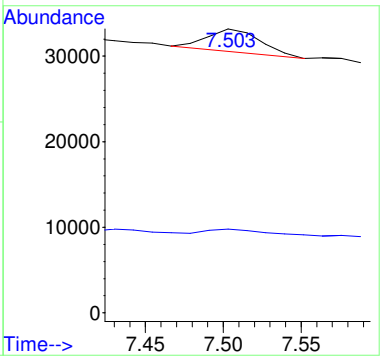


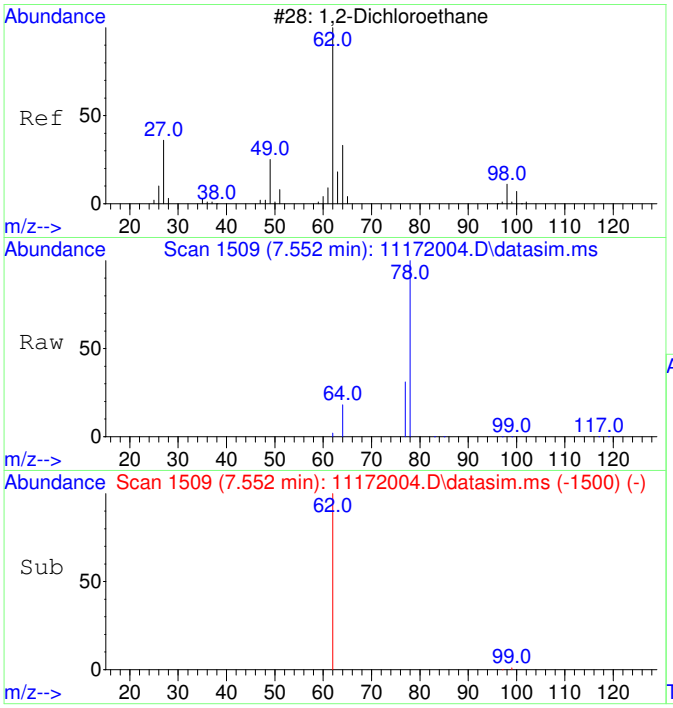


#9
Benzene
Concen: 56.75 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 78 Resp: 5827

Ion	Ratio	Lower	Upper
78	100		
77	43.1	0.0	53.2

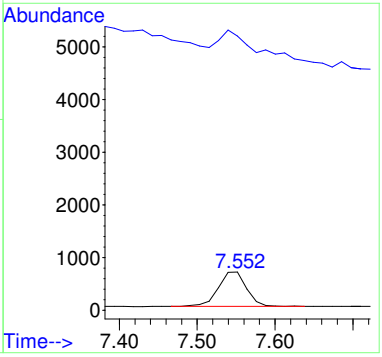


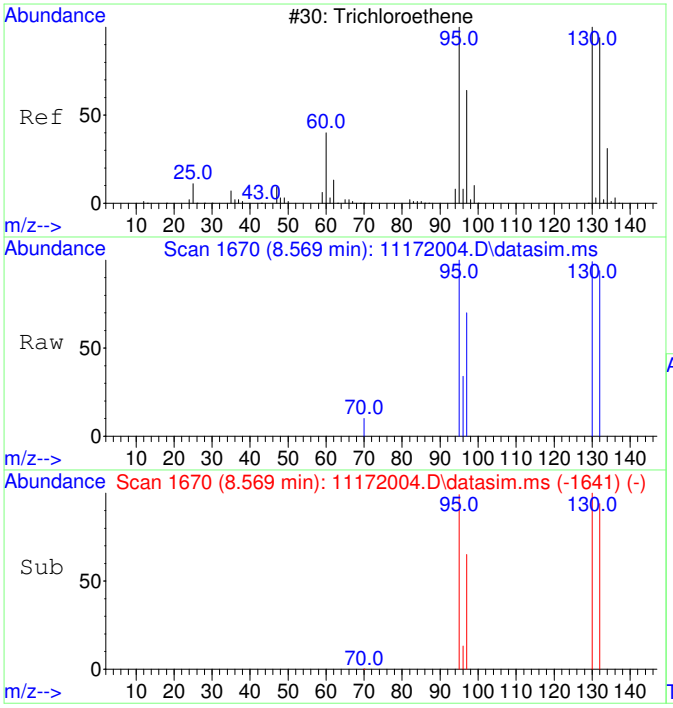


#10
1,2-Dichloroethane
Concen: 44.94 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 62 Resp: 1647

Ion	Ratio	Lower	Upper
62	100		
64	103.2	2.3	62.3#

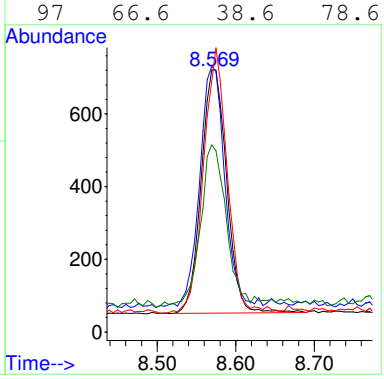


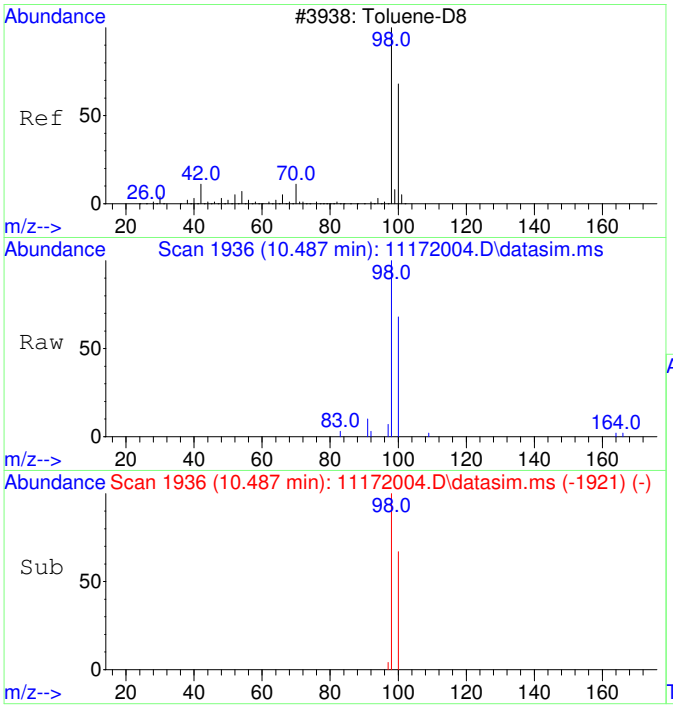


#11
Trichloroethene
Concen: 48.78 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:130 Resp: 1508

Ion	Ratio	Lower	Upper
130	100		
95	97.7	60.7	120.7
132	101.2	76.0	116.0
97	66.6	38.6	78.6

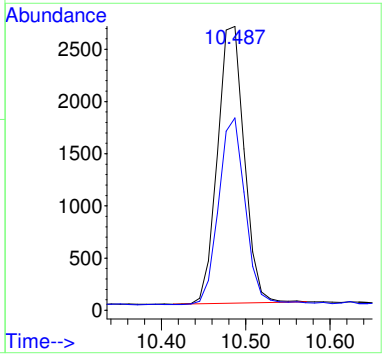


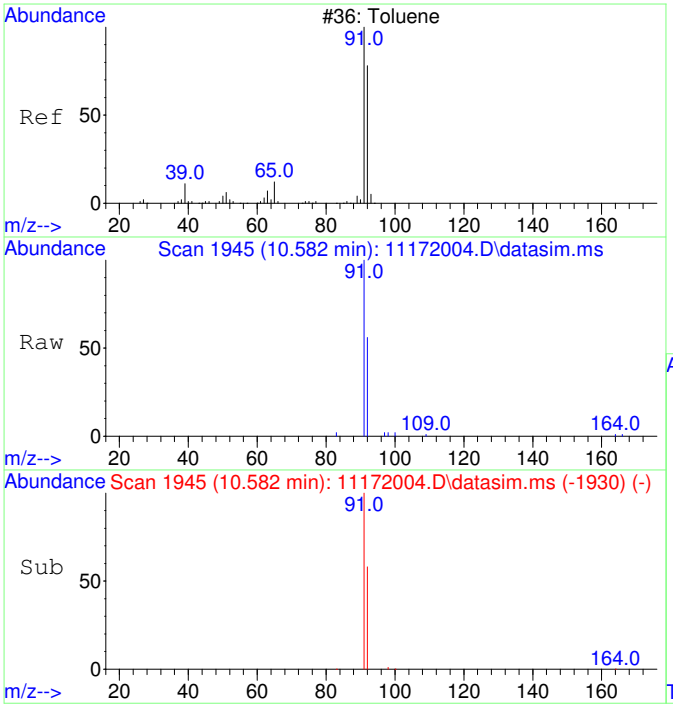


#12
Toluene-d8
Concen: 49.67 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 98 Resp: 5876

Ion	Ratio	Lower	Upper
98	100		
100	66.2	37.1	97.1

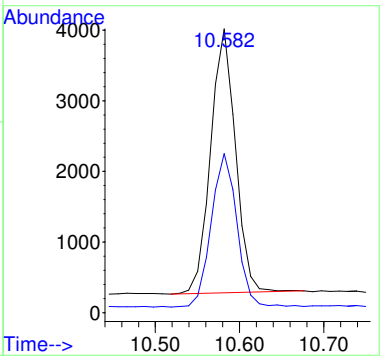


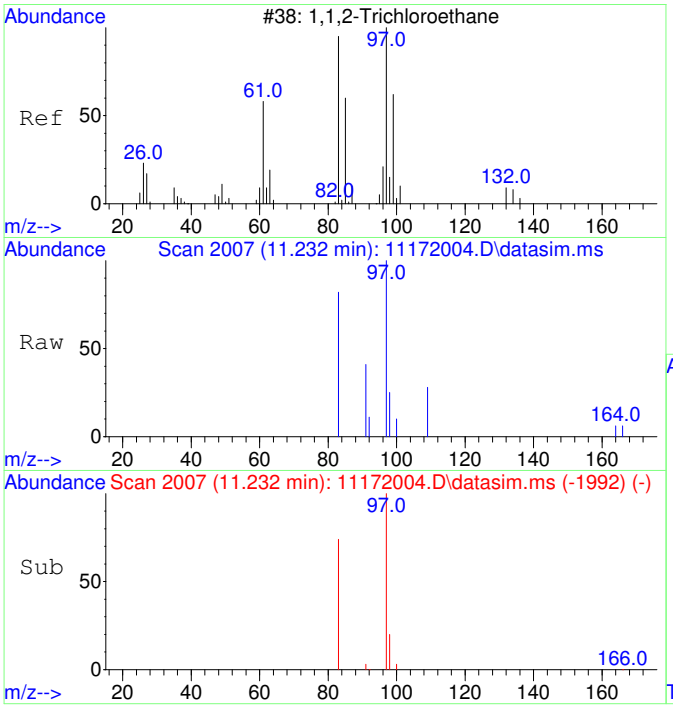


#13
Toluene
Concen: 50.71 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 7647

Ion	Ratio	Lower	Upper
91	100		
92	59.8	29.9	89.9

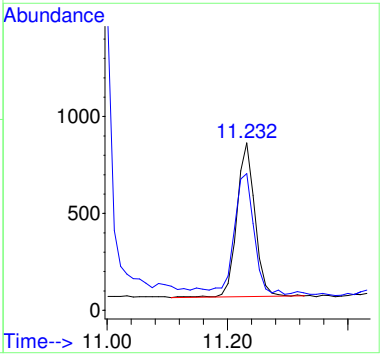


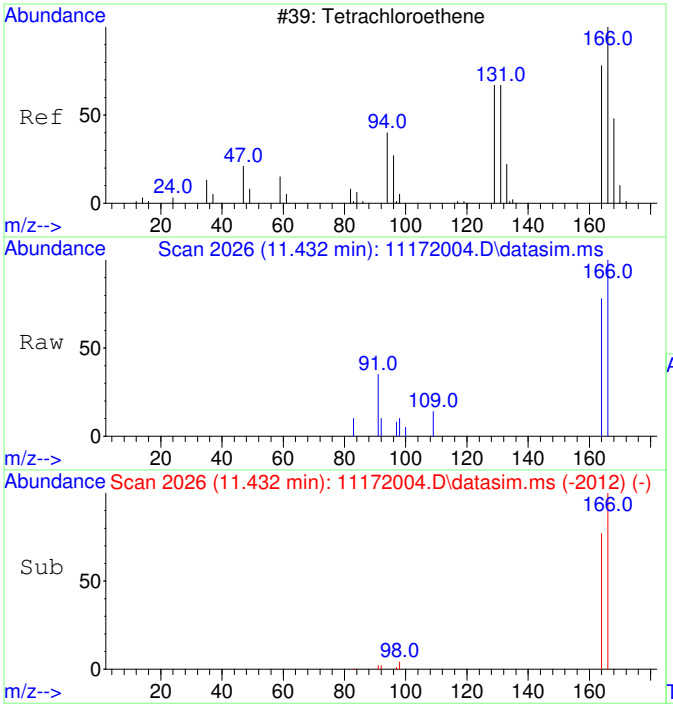


#14
1,1,2-Trichloroethane
Concen: 50.54 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 97 Resp: 1661

Ion	Ratio	Lower	Upper
97	100		
83	83.7	51.2	111.2

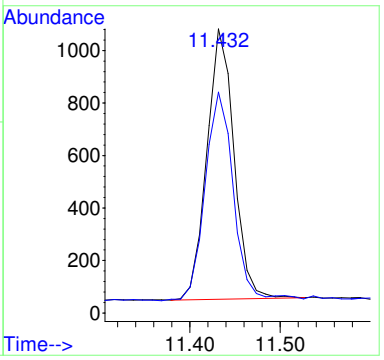


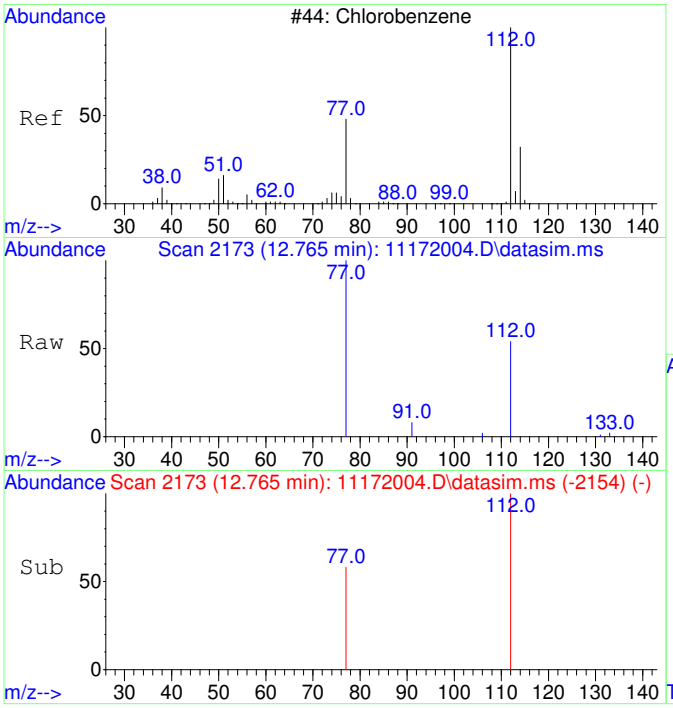


#15
Tetrachloroethene
Concen: 49.22 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:166 Resp: 2148

Ion	Ratio	Lower	Upper
166	100		
164	79.4	47.8	107.8

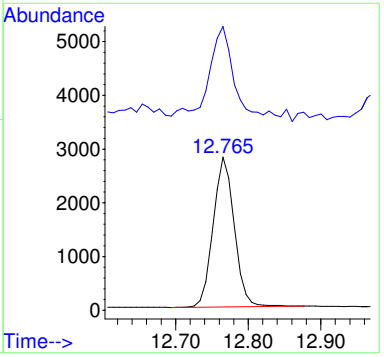


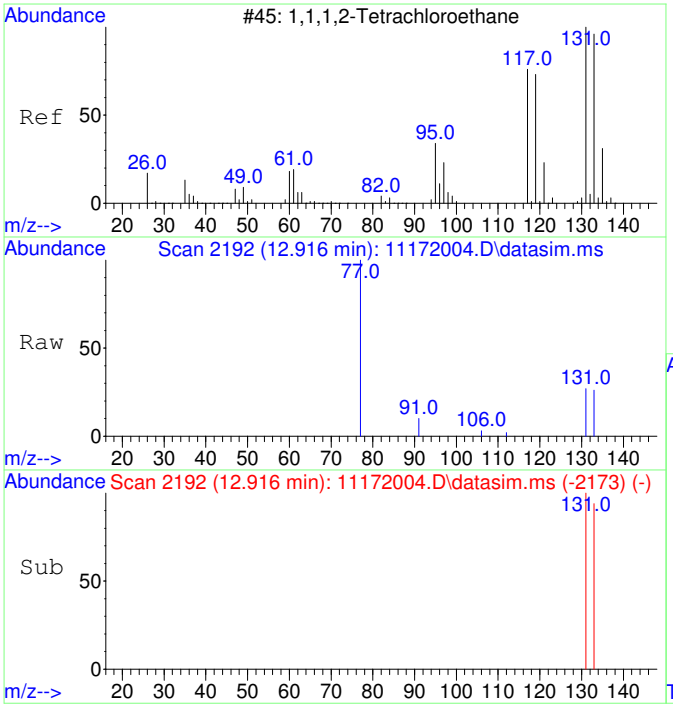


#16
Chlorobenzene
Concen: 52.20 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:112 Resp: 5637

Ion	Ratio	Lower	Upper
112	100		
77	64.7	23.6	83.6

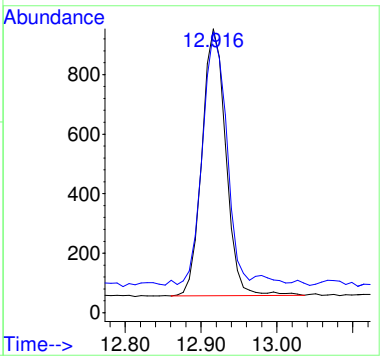


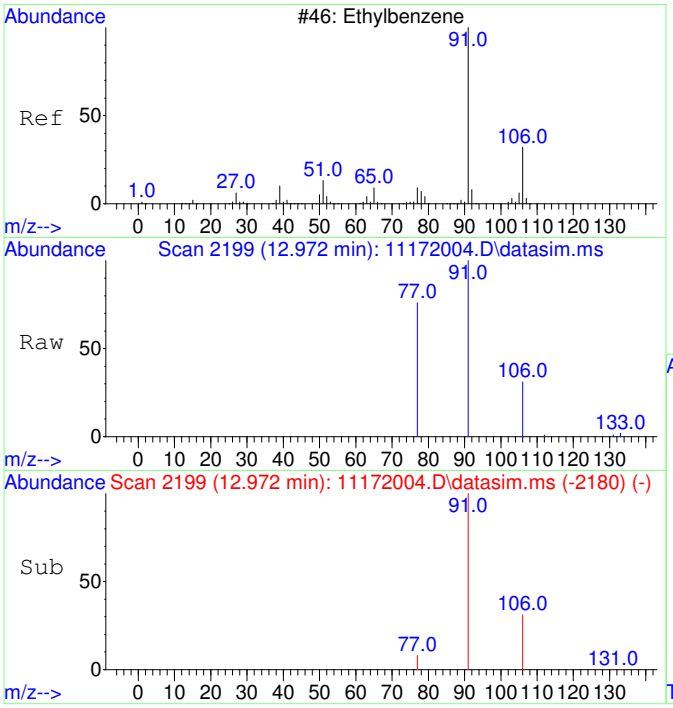


#17
1,1,1,2-Tetrachloroethane
Concen: 50.63 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:131 Resp: 1959

Ion	Ratio	Lower	Upper
131	100		
133	96.0	66.3	126.3

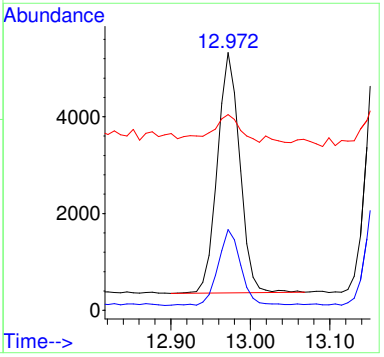


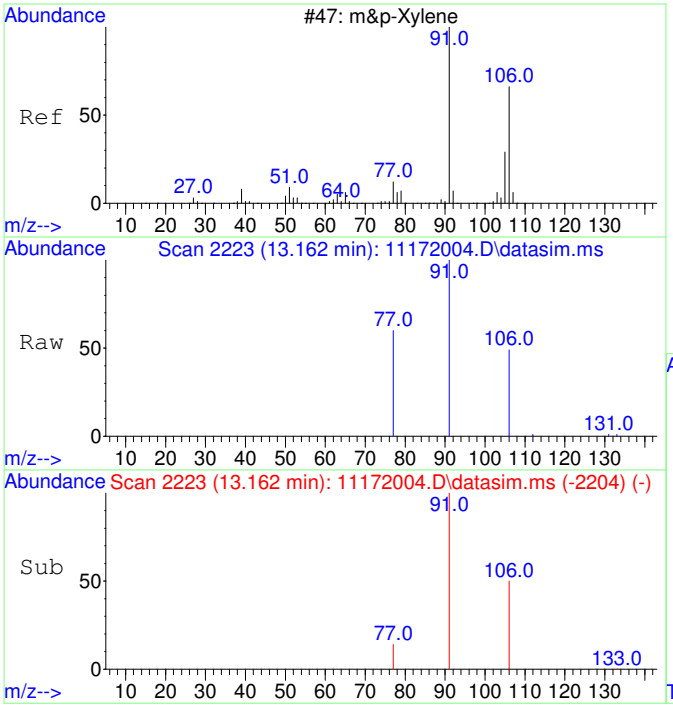


#18
Ethylbenzene
Concen: 52.93 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 9717

Ion	Ratio	Lower	Upper
91	100		
106	32.5	3.0	63.0
77	16.0	0.0	38.2

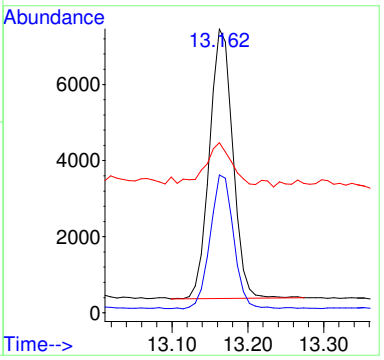


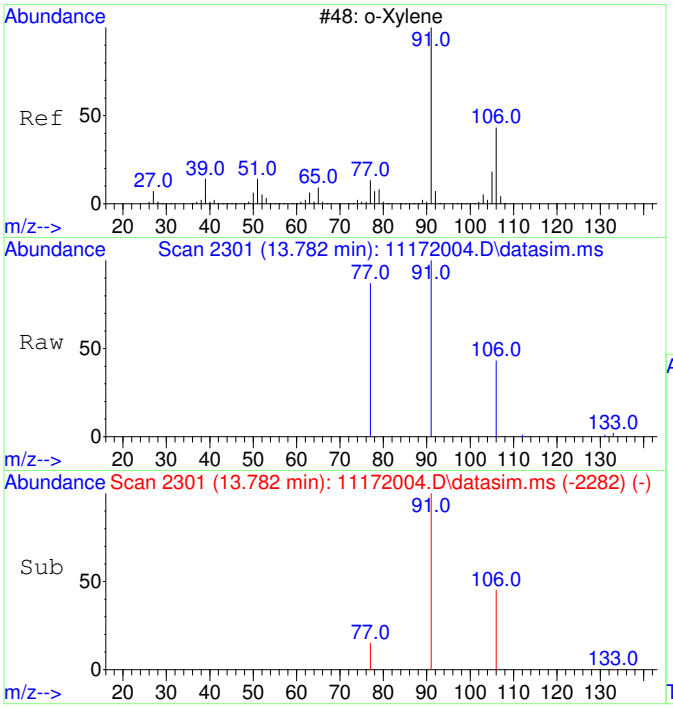


#19
m&p-Xylene
Concen: 105.54 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 15142

Ion	Ratio	Lower	Upper
91	100		
106	49.5	22.2	82.2
77	16.7	0.0	42.4

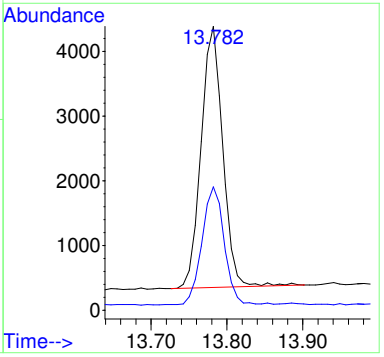


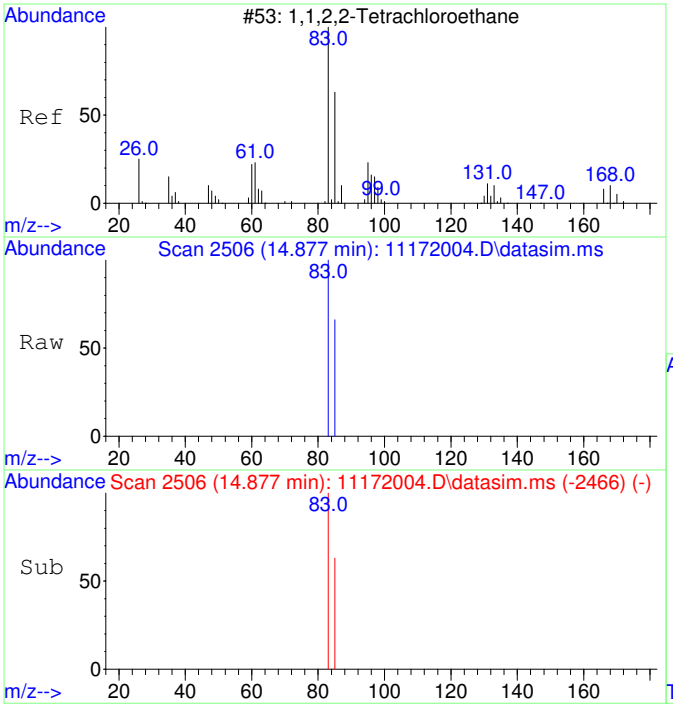


#20
o-Xylene
Concen: 52.20 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 8002

Ion	Ratio	Lower	Upper
91	100		
106	45.6	19.2	79.2

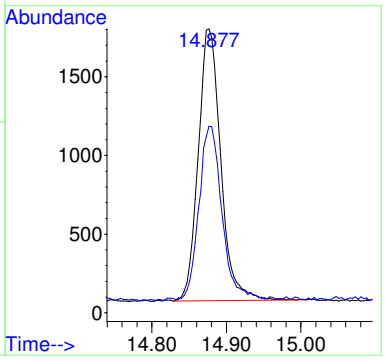


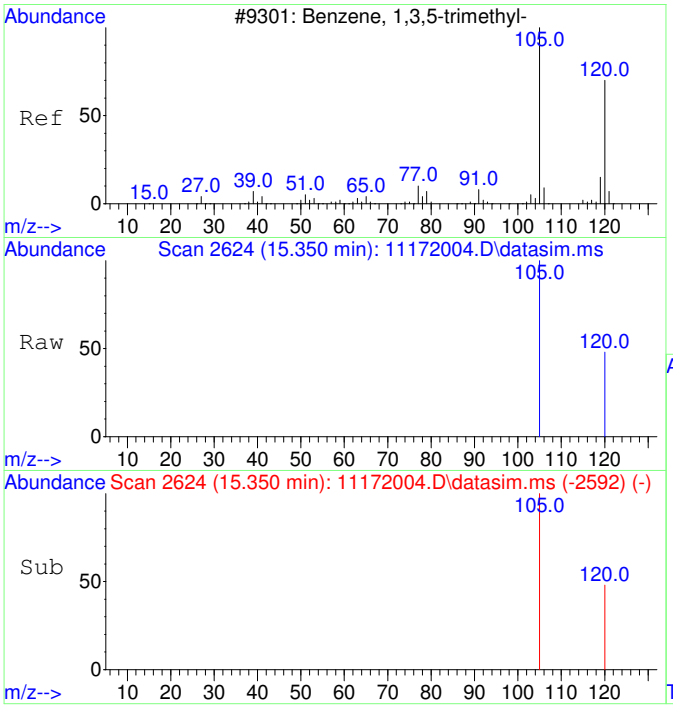


#21
1,1,2,2-Tetrachloroethane
Concen: 53.48 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 83 Resp: 3633

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.8	94.8

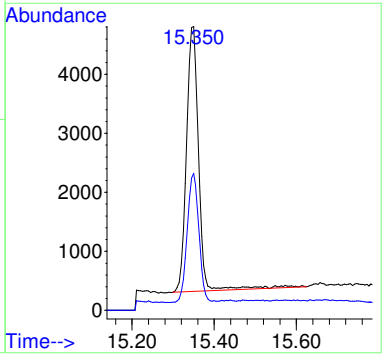


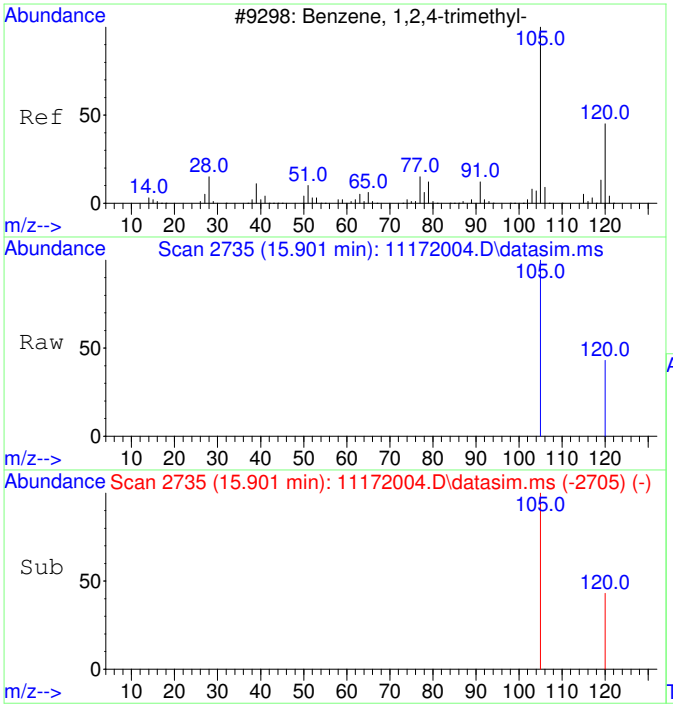


#22
1,3,5-Trimethylbenzene
Concen: 56.53 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:105 Resp: 9223

Ion	Ratio	Lower	Upper
105	100		
120	47.8	21.1	81.1

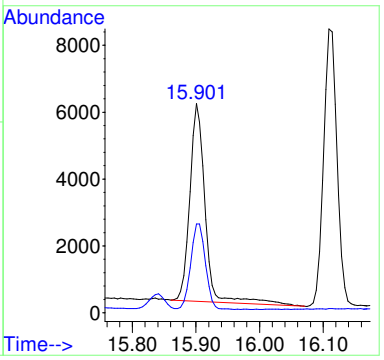


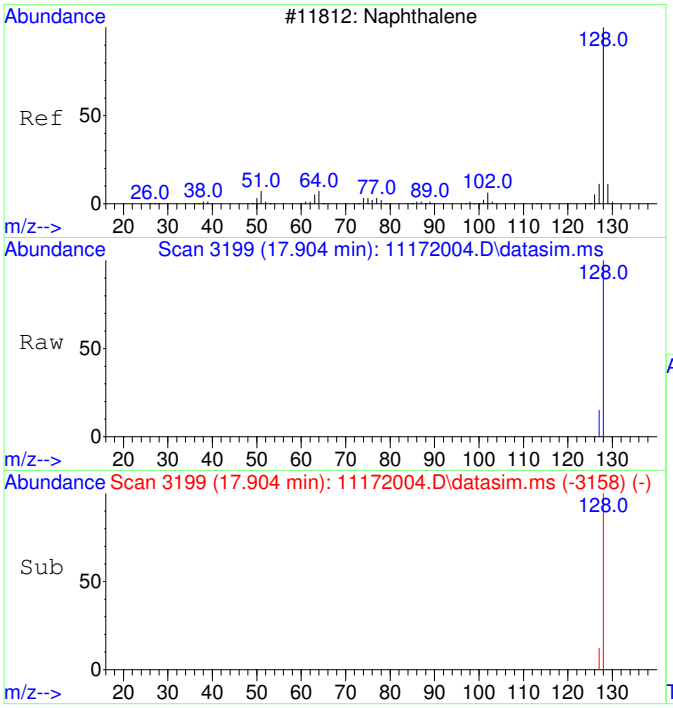


#23
1,2,4-Trimethylbenzene
Concen: 58.58 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:105 Resp: 9927

Ion	Ratio	Lower	Upper
105	100		
120	40.5	17.2	77.2

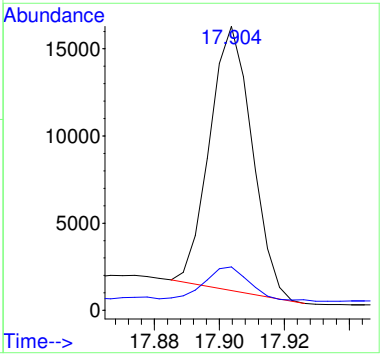


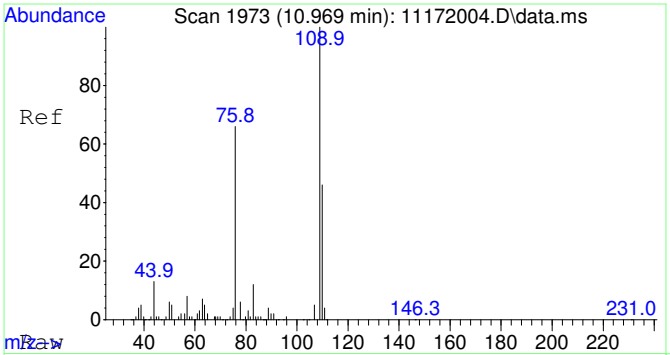


#24
Naphthalene
Concen: 50.79 ug/L
RT: 17.904 min Scan# 3199
Delta R.T. 0.001 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:128 Resp: 13603

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.5

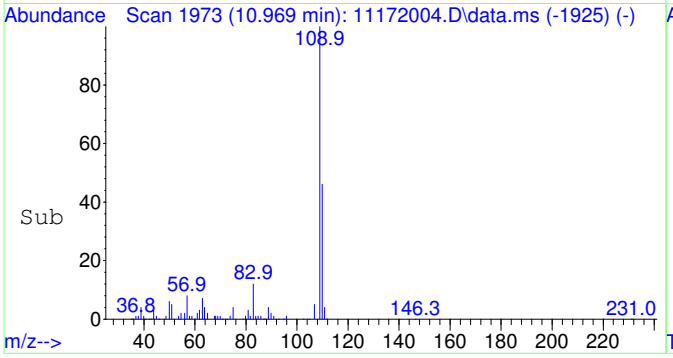


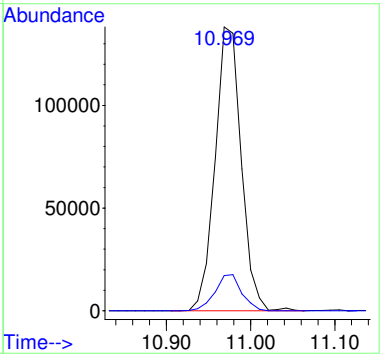


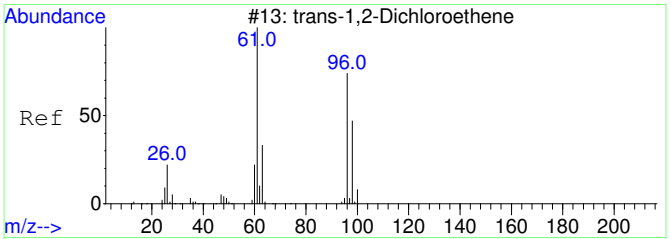
#25
2-Fluorotoluene SCAN
Concen: 5067.92 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:109 Resp: 298529

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.8



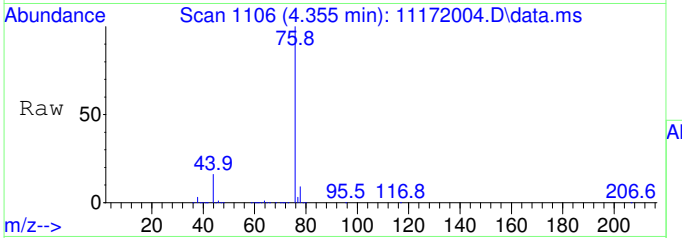


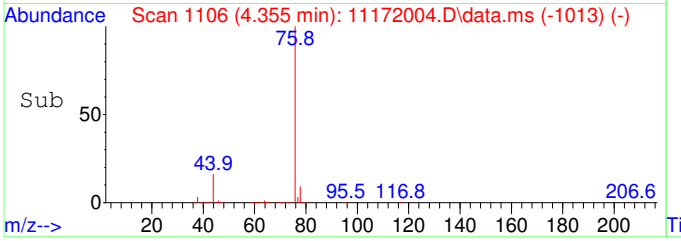


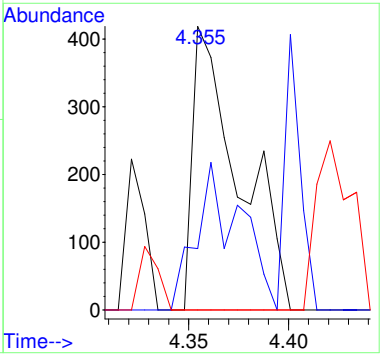
#27
trans-1,2-Dichloroethene SCAN
Concen: 43.99 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

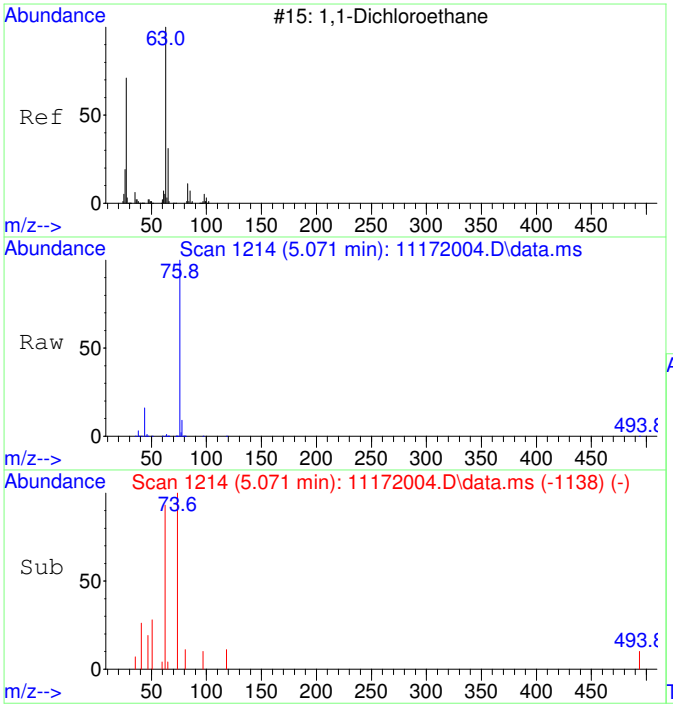
Tgt Ion: 61 Resp: 681

Ion	Ratio	Lower	Upper
61	100		
96	49.0	49.0	109.0
98	0.0	20.5	80.5#





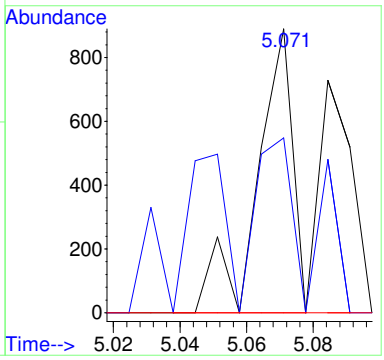


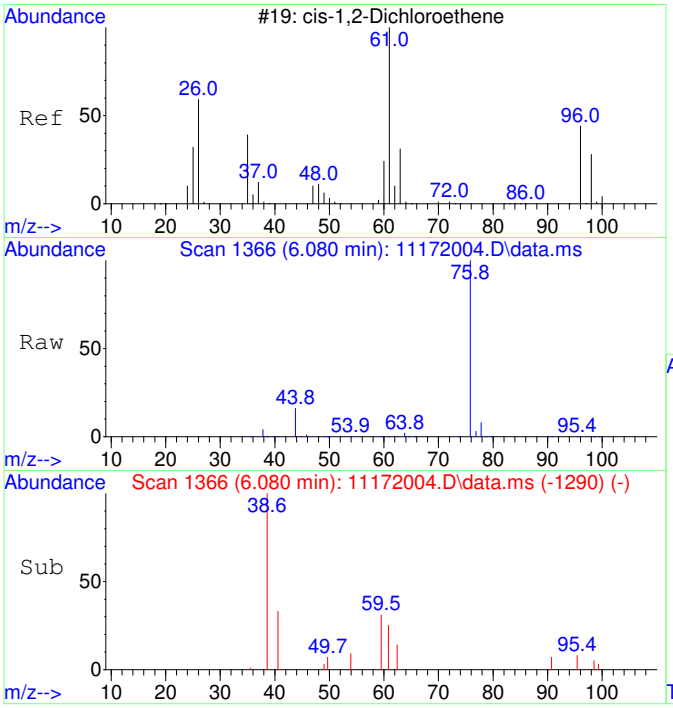


#28
1,1-Dichloroethane SCAN
Concen: 36.62 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 63 Resp: 656

Ion	Ratio	Lower	Upper
63	100		
65	92.5	1.3	61.3#
83	0.0	0.0	45.9

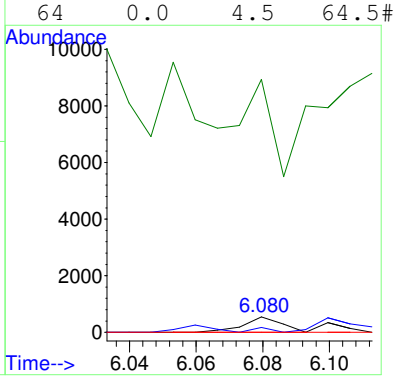


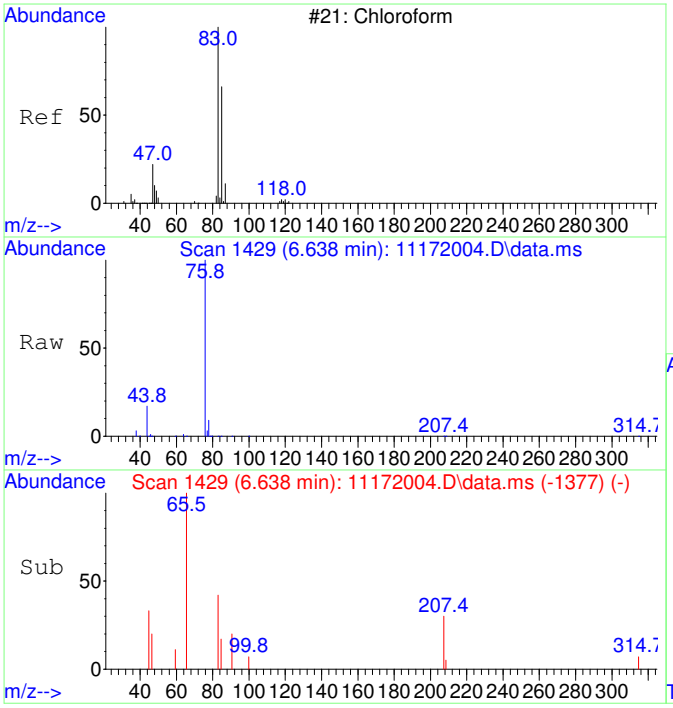


#29
cis-1,2-Dichloroethene SCAN
Concen: 22.56 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 433

Ion	Ratio	Lower	Upper
61	100		
96	43.4	39.9	99.9
98	0.0	13.5	73.5#
64	0.0	4.5	64.5#

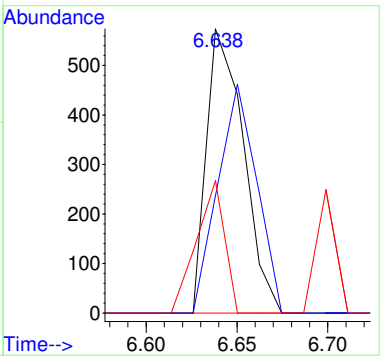


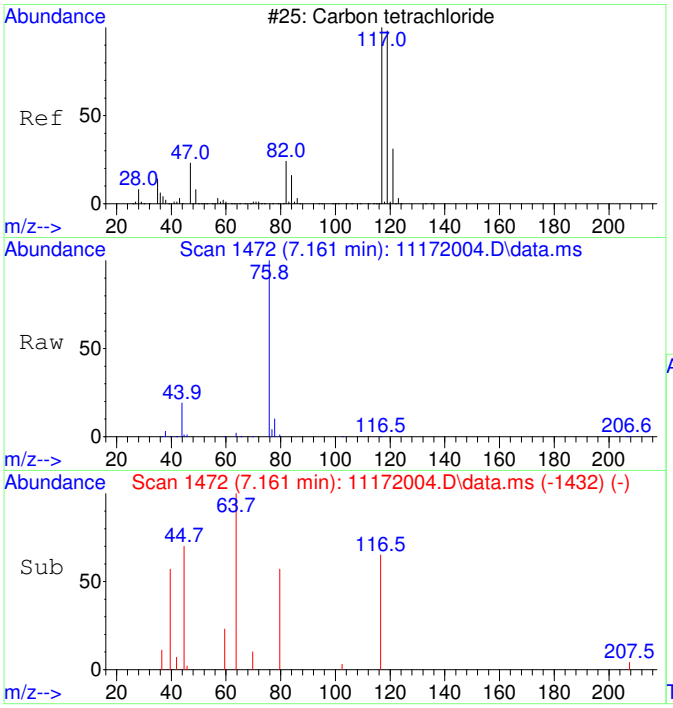


#30
Chloroform SCAN
Concen: 39.05 ug/L
RT: 6.638 min Scan# 1429
Delta R.T. -0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 83 Resp: 813

Ion	Ratio	Lower	Upper
83	100		
85	84.5	34.6	94.6
47	35.2	0.0	53.4

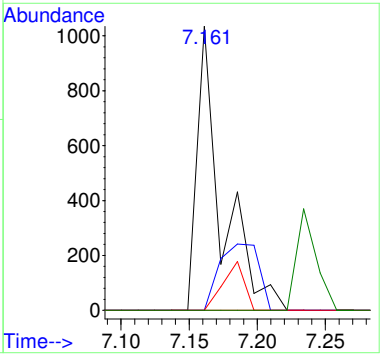


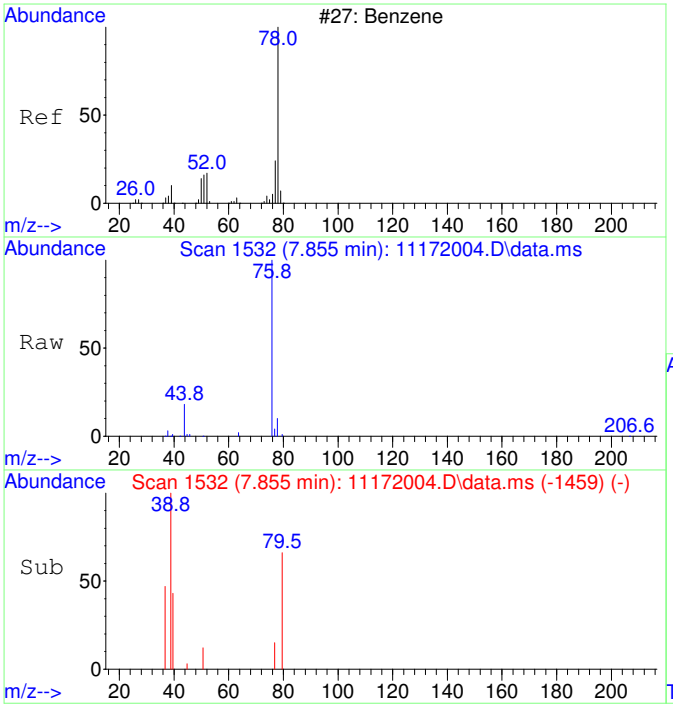


#32
Carbon tetrachloride SCAN
Concen: 65.99 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:117 Resp: 1306

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

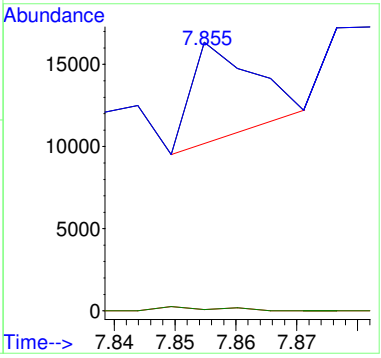


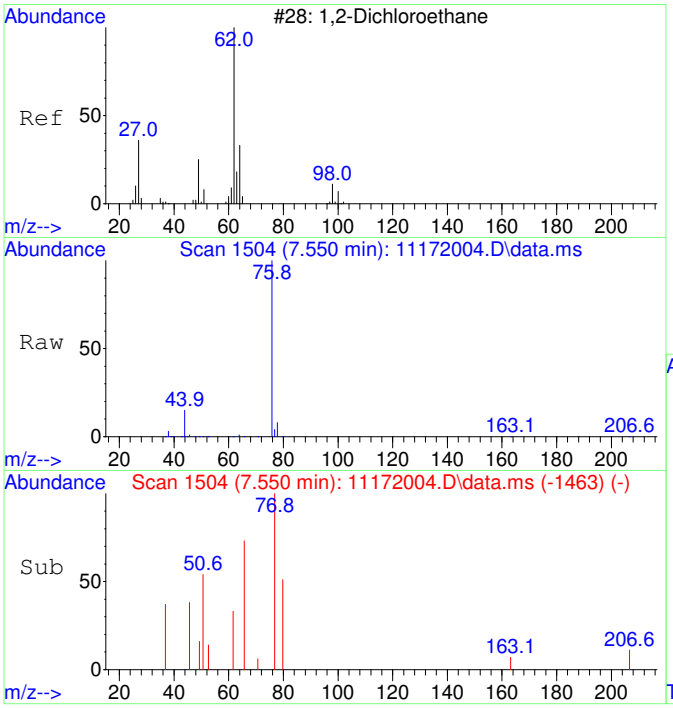


#33
Benzene SCAN
Concen: 87.74 ug/L
RT: 7.855 min Scan# 1532
Delta R.T. 0.353 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 78 Resp: 4583

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.8	0.0	47.9
51	3.8	0.0	44.1

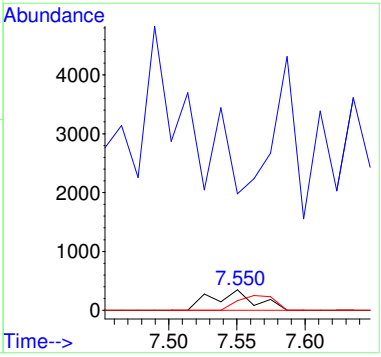


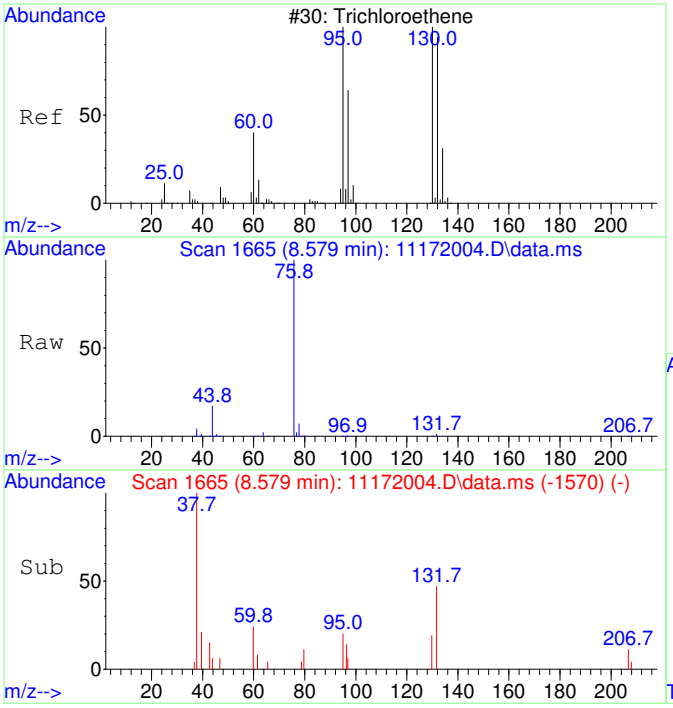


#34
1,2-Dichloroethane SCAN
Concen: 39.56 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 62 Resp: 763

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	62.1	3.9	63.9

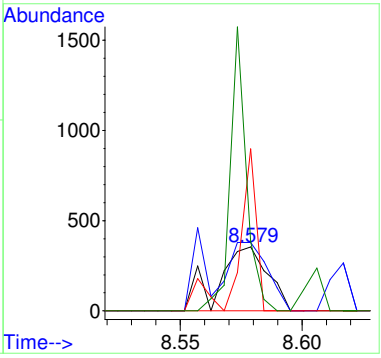


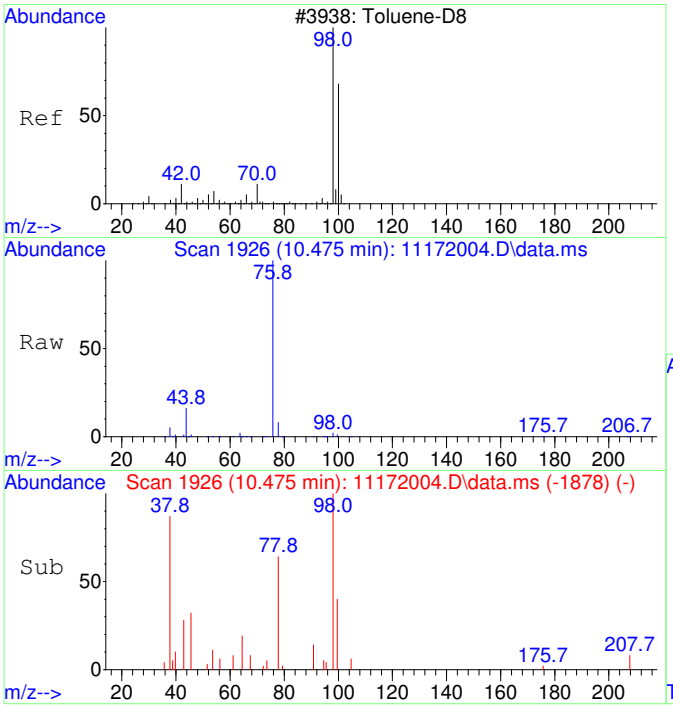


#35
Trichloroethene SCAN
Concen: 34.97 ug/L
RT: 8.579 min Scan# 1665
Delta R.T. 0.016 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:130 Resp: 502

Ion	Ratio	Lower	Upper
130	100		
95	70.7	60.5	120.5
132	72.3	59.6	119.6
97	145.2	28.2	88.2#

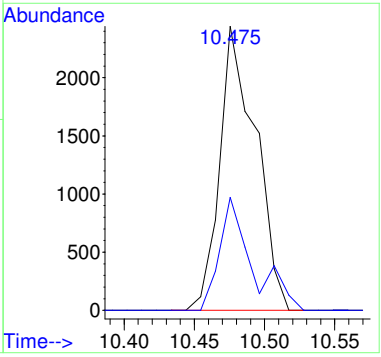


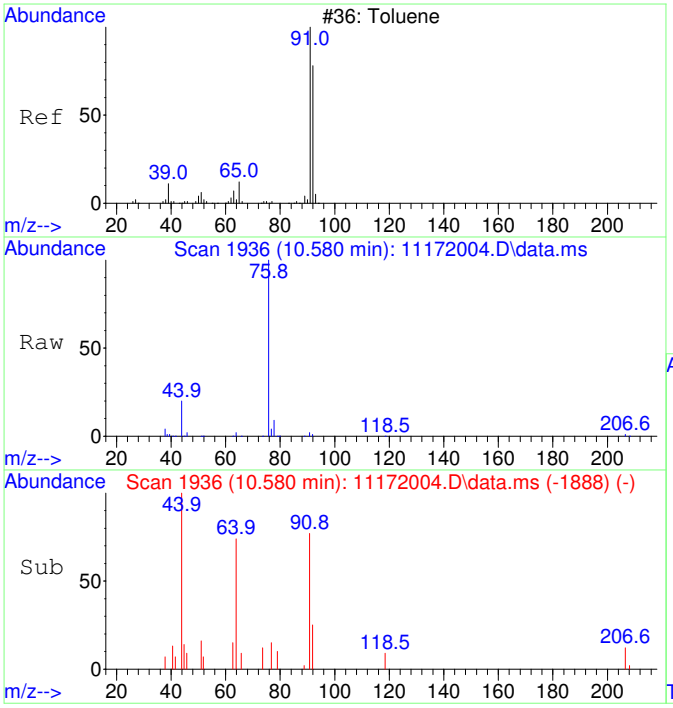


#36
Toluene-d8 SCAN
Concen: 75.68 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 98 Resp: 4360

Ion	Ratio	Lower	Upper
98	100		
100	36.2	40.0	100.0#

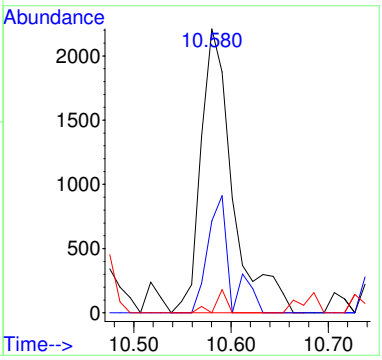


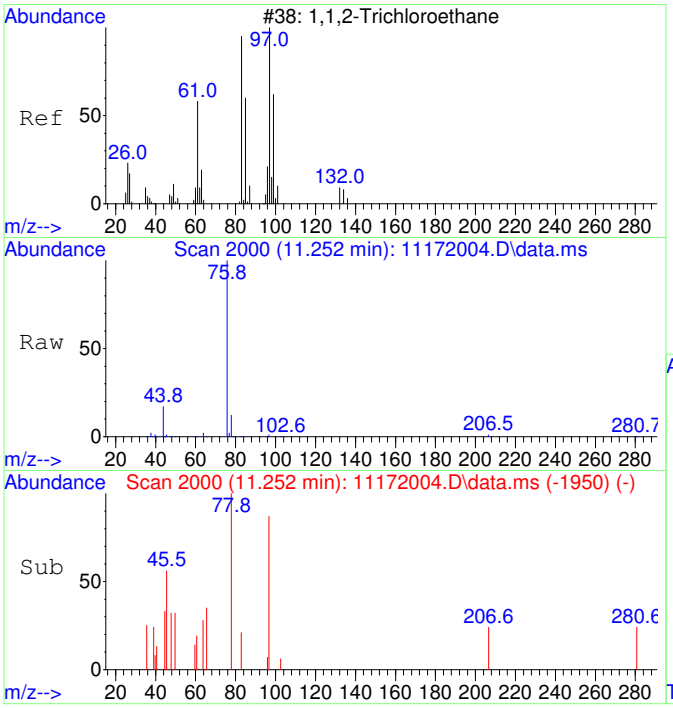


#37
Toluene SCAN
Concen: 68.33 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 5041

Ion	Ratio	Lower	Upper
91	100		
92	29.4	28.3	88.3
65	2.9	0.0	41.0

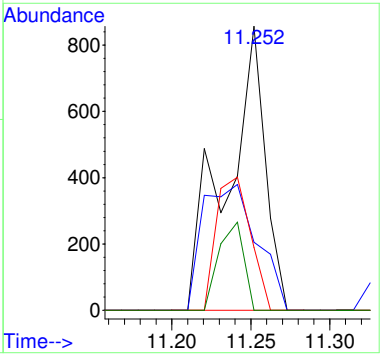


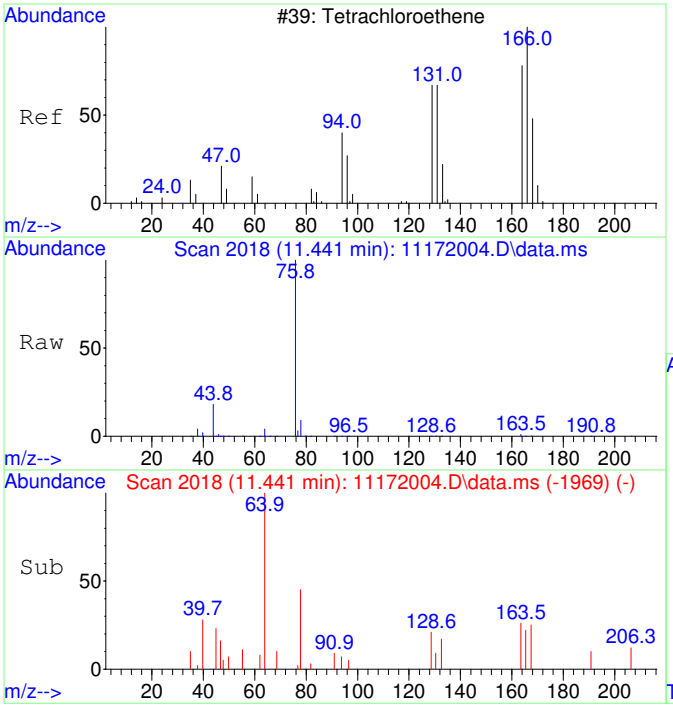


#38
1,1,2-Trichloroethane SCAN
Concen: 88.29 ug/L
RT: 11.252 min Scan# 2000
Delta R.T. 0.021 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 97 Resp: 1462

Ion	Ratio	Lower	Upper
97	100		
83	62.2	57.7	117.7
61	41.3	32.1	92.1
99	20.1	36.7	96.7#

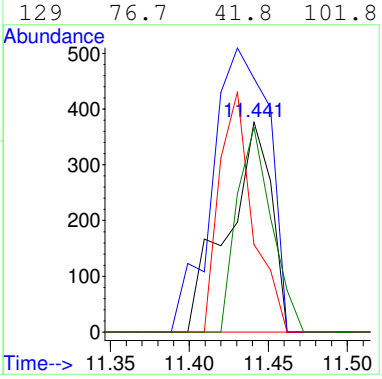


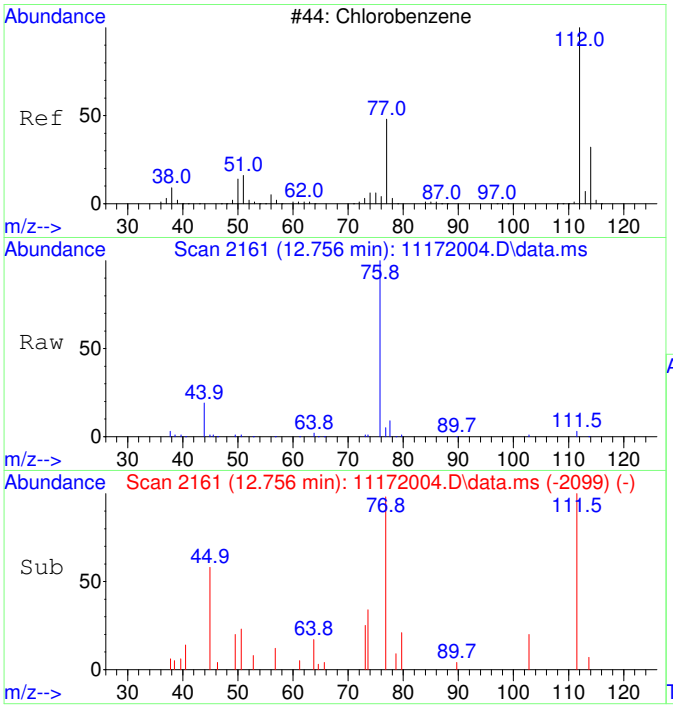


#39
Tetrachloroethene SCAN
Concen: 41.47 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:166 Resp: 735

Ion	Ratio	Lower	Upper
166	100		
164	173.9	50.9	110.9#
131	86.7	38.7	98.7
129	76.7	41.8	101.8

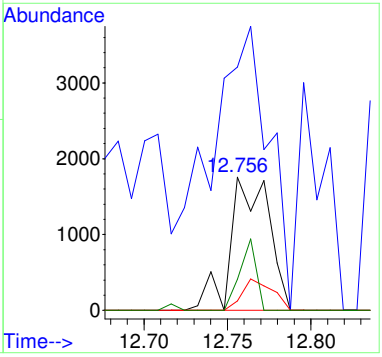


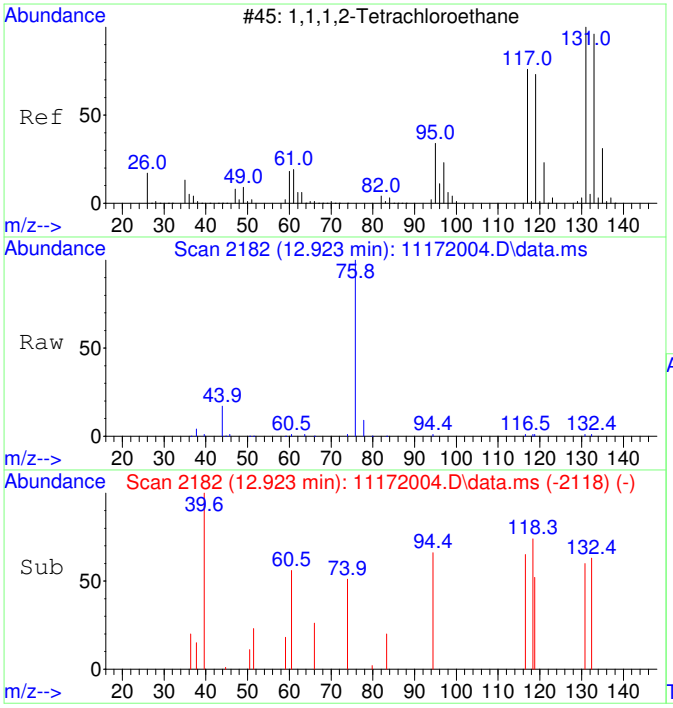


#40
Chlorobenzene SCAN
Concen: 56.45 ug/L
RT: 12.756 min Scan# 2161
Delta R.T. -0.008 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:112 Resp: 2846

Ion	Ratio	Lower	Upper
112	100		
77	214.2	28.2	88.2#
114	18.3	2.3	62.3
51	22.6	0.0	50.1

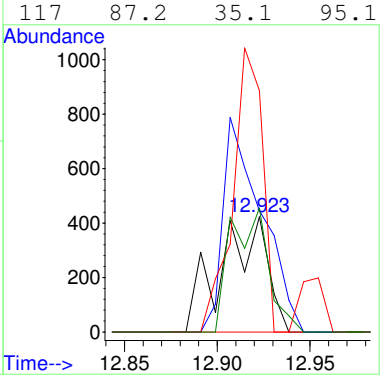


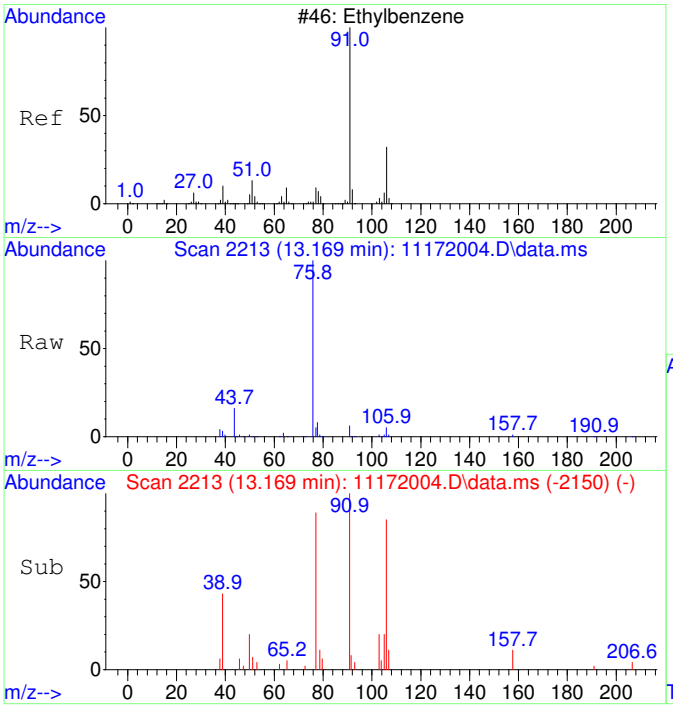


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 39.77 ug/L
RT: 12.923 min Scan# 2182
Delta R.T. 0.008 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:131 Resp: 742

Ion	Ratio	Lower	Upper
131	100		
133	154.7	66.9	126.9#
119	157.1	40.4	100.4#
117	87.2	35.1	95.1

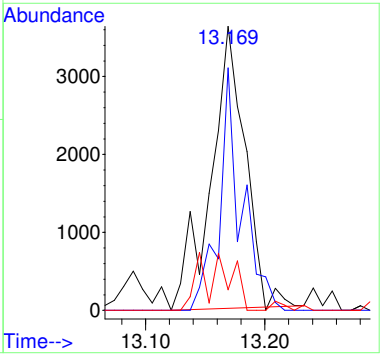


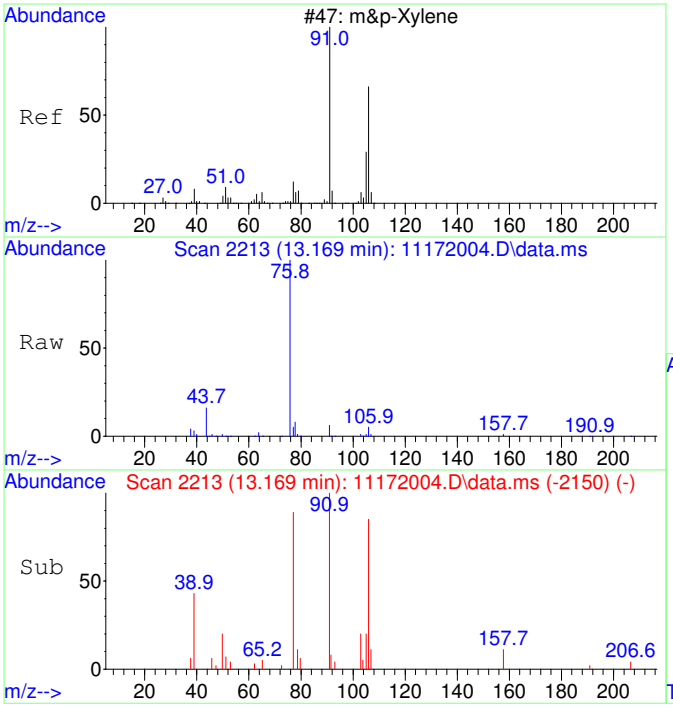


#42
Ethylbenzene SCAN
Concen: 53.91 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 7246

Ion	Ratio	Lower	Upper
91	100		
106	55.3	23.1	83.1
51	9.5	0.0	40.1

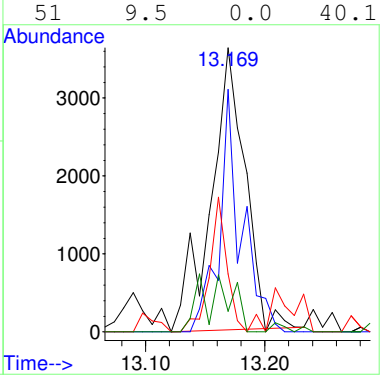


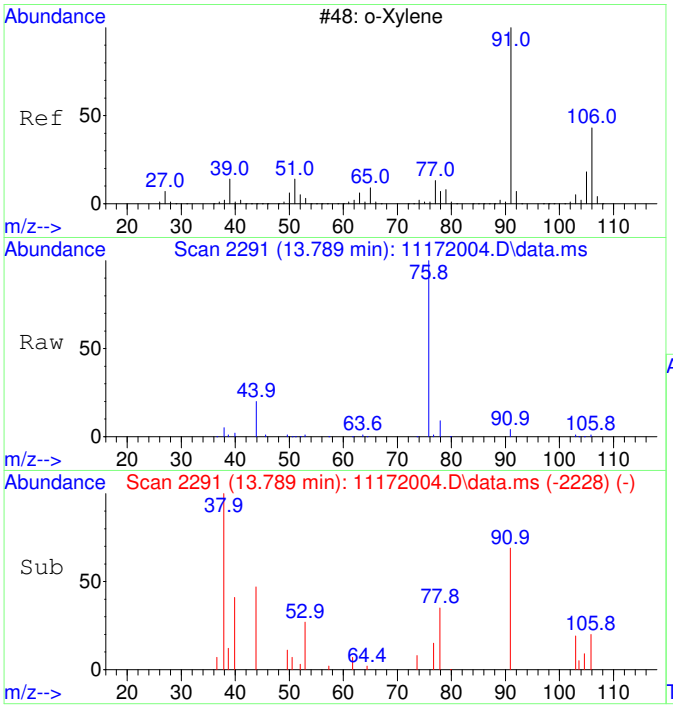


#43
m&p-Xylene SCAN
Concen: 53.91 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 7246

Ion	Ratio	Lower	Upper
91	100		
106	55.3	23.1	83.1
105	23.9	0.0	54.7
51	9.5	0.0	40.1

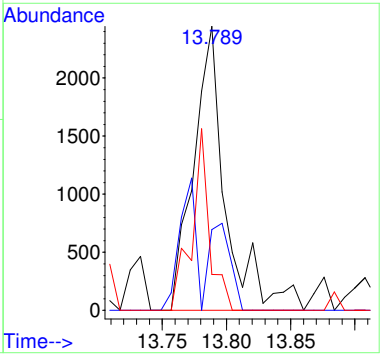


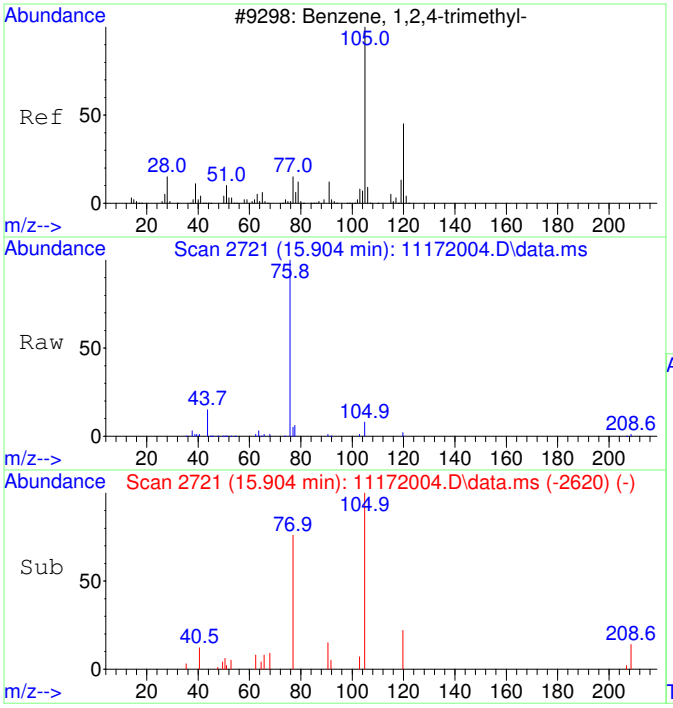


#44
o-Xylene SCAN
Concen: 59.48 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 4279

Ion	Ratio	Lower	Upper
91	100		
106	20.4	18.0	78.0
105	35.0	0.0	56.6

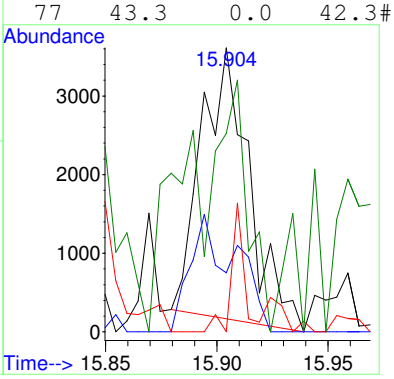


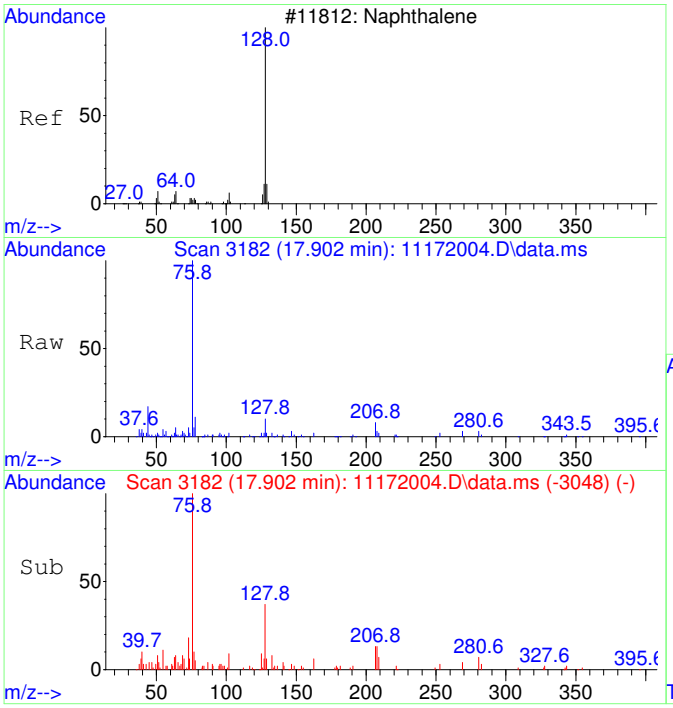


#47
1,2,4-Trimethylbenzene SCAN
Concen: 66.05 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:105 Resp: 5124

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.9	76.9#
119	10.1	0.0	41.9
77	43.3	0.0	42.3#

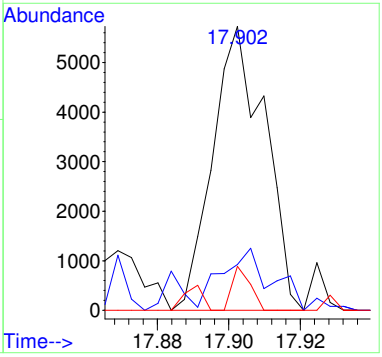




#48
Naphthalene SCAN
Concen: 49.60 ug/L
RT: 17.902 min Scan# 3182
Delta R.T. -0.003 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:128 Resp: 5823

Ion	Ratio	Lower	Upper
128	100		
127	19.6	0.0	44.0
129	5.4	0.0	40.8



B20K062-BLK1

Quantitation Report (Not Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172005.D
Acq On : 17 Nov 2020 9:29
InstName : AG5975C
Operator : TD
Sample : B20K062-BLK1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 17 09:48:06 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

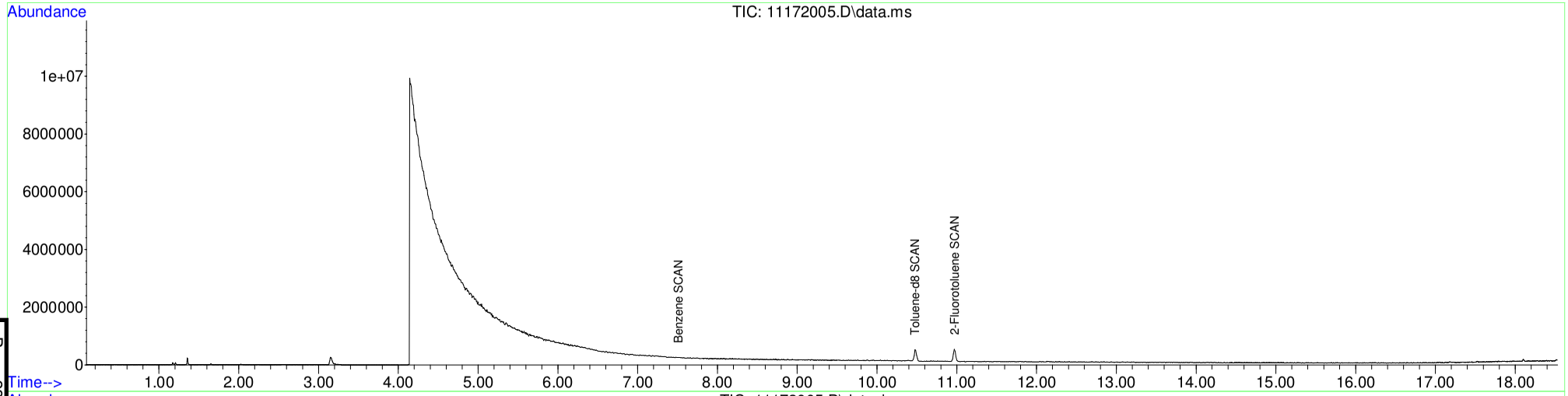
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	693191	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	597993	4406.74	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.13%			
Target Compounds						Qvalue
9] Benzene	7.503	78	6200	52.64	ug/L #	34 NT
25) 2-Fluorotoluene SCAN	10.969	109	322117	4766.92	ug/L	96
33) Benzene SCAN	7.514	78	15079	251.64	ug/L	94
36) Toluene-d8 SCAN	10.475	98	298720	4520.26	ug/L	91

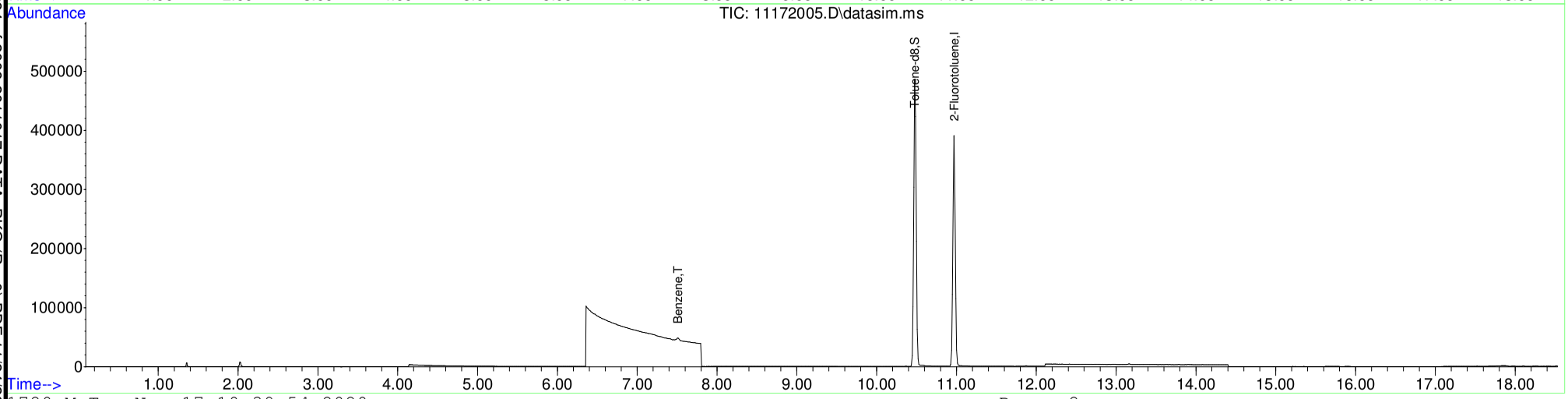
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172005.D
Acq On : 17 Nov 2020 9:29
InstName : AG5975C
Operator : TD
Sample : B20K062-BLK1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 17 09:48:06 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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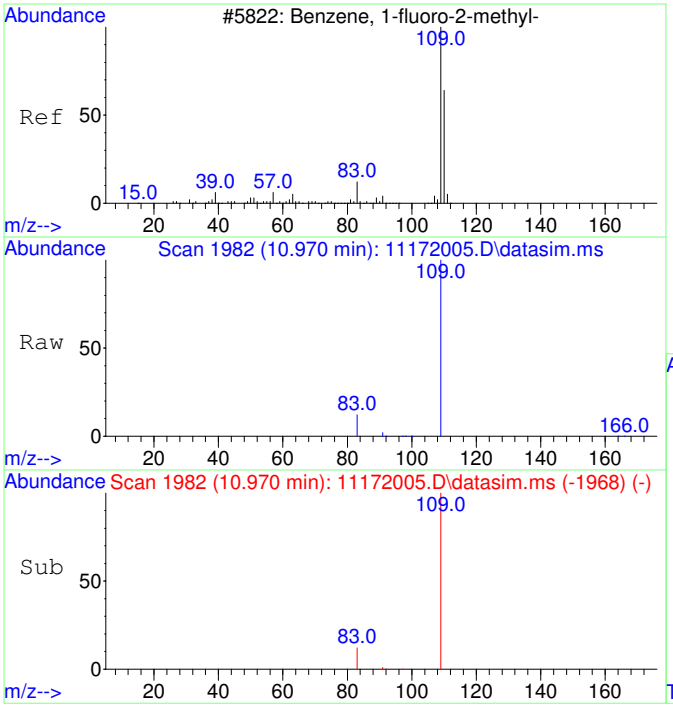
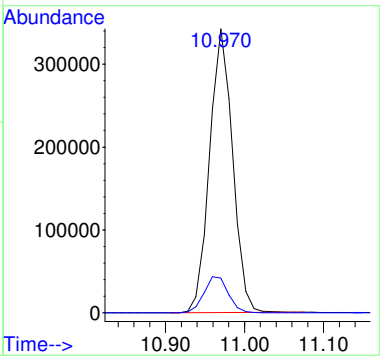
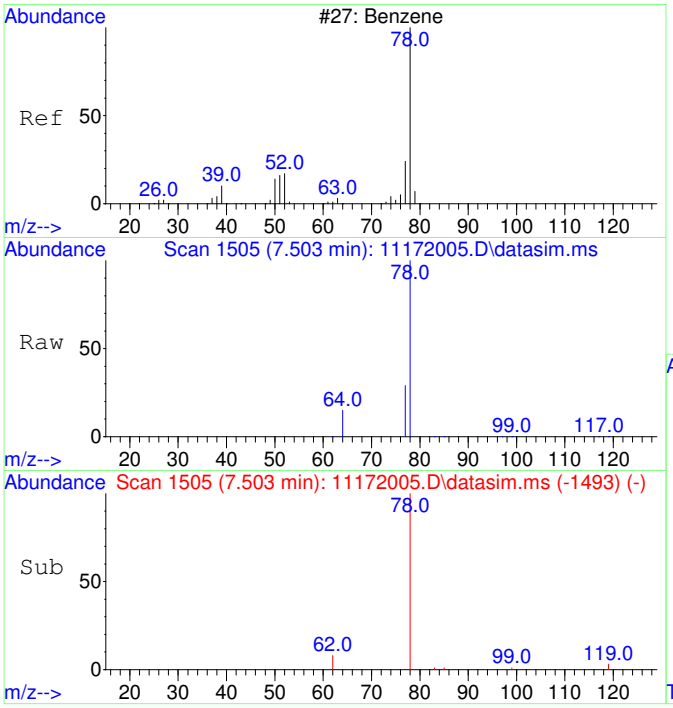


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172005.D
Acq: 17 Nov 2020 9:29

Tgt Ion:109 Resp: 693191

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

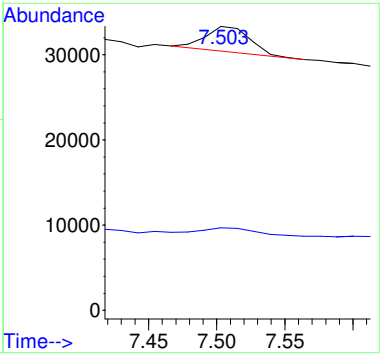


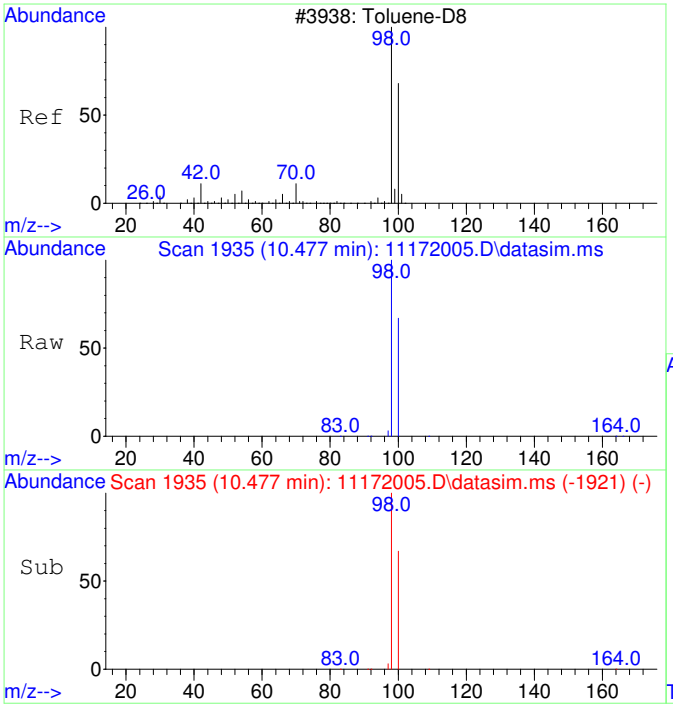


#9
Benzene
Concen: 52.64 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172005.D
Acq: 17 Nov 2020 9:29

Tgt Ion: 78 Resp: 6200

Ion	Ratio	Lower	Upper
78	100		
77	55.3	0.0	53.2#

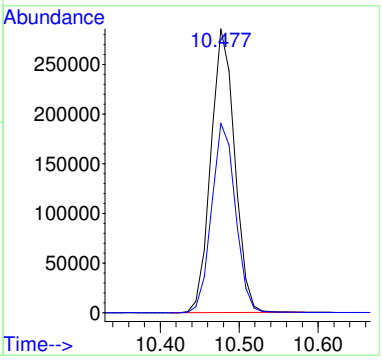


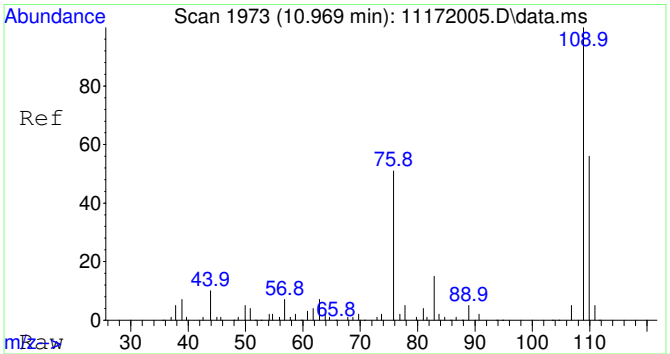


#12
Toluene-d8
Concen: 4406.74 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172005.D
Acq: 17 Nov 2020 9:29

Tgt Ion: 98 Resp: 597993

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

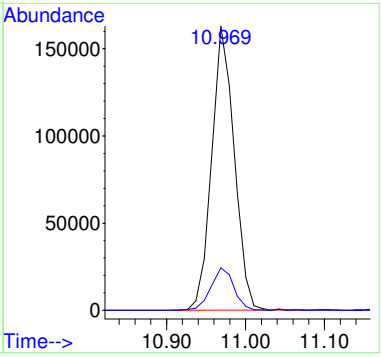


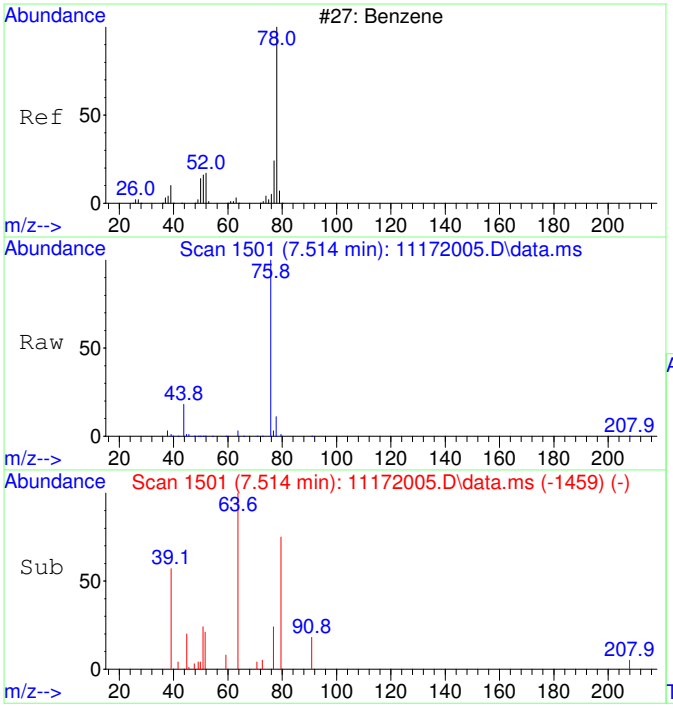


#25
2-Fluorotoluene SCAN
Concen: 4766.92 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172005.D
Acq: 17 Nov 2020 9:29

Tgt Ion:109 Resp: 322117

Ion	Ratio	Lower	Upper
109	100		
83	15.3	0.0	43.8

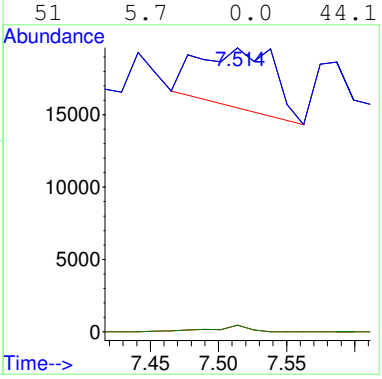


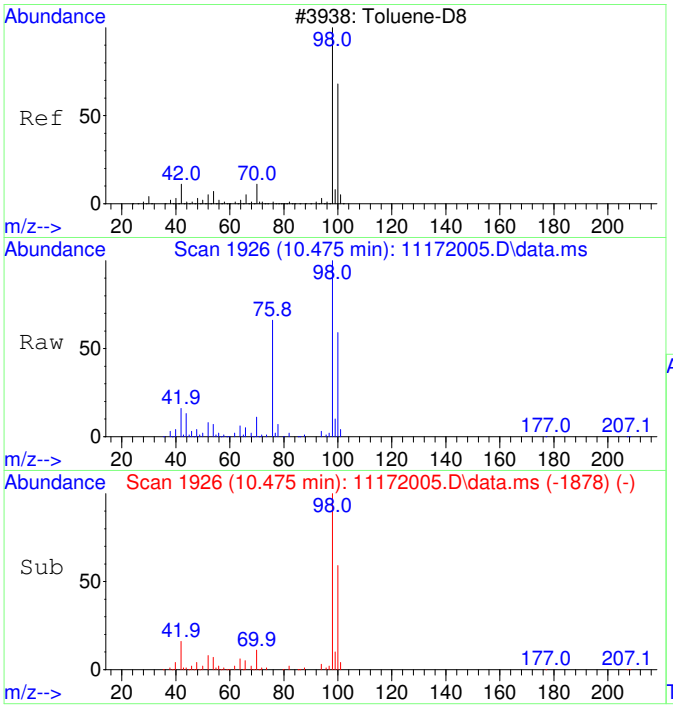


#33
Benzene SCAN
Concen: 251.64 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172005.D
Acq: 17 Nov 2020 9:29

Tgt Ion: 78 Resp: 15079

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	5.7	0.0	47.9
51	5.7	0.0	44.1

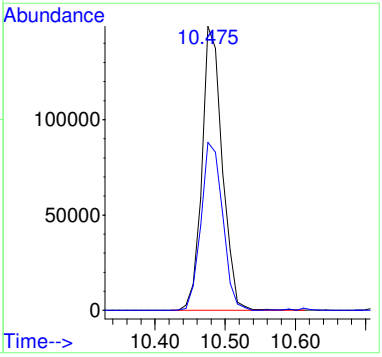




#36
Toluene-d8 SCAN
Concen: 4520.26 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11172005.D
Acq: 17 Nov 2020 9:29

Tgt Ion: 98 Resp: 298720

Ion	Ratio	Lower	Upper
98	100		
100	63.0	40.0	100.0



B20K062-BS1

Blanks Spike or Blank Spike Duplicate

Instrument Name: AG5975C
Sample Name: B20K062-BS1
Misc Info: 0
Date Acquired: 11/17/2020
QLast Update: Mon Nov 16 10:20:51 2020
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.970	5000	5000.00	100%	70	130	pass
2)	**1,1-Dichloroethene**	**3.086**	**5000**	**4022.68**	**80%**	**22**	**143**	**pass**
3)	**trans-1,2-Dichloroethene**	**4.343**	**5000**	**4047.46**	**81%**	**35**	**133**	**pass**
4)	**1,1-Dichloroethane**	**5.066**	**5000**	**4099.48**	**82%**	**43**	**140**	**pass**
5)	**cis-1,2-Dichloroethene**	**6.074**	**5000**	**4061.08**	**81%**	**49**	**134**	**pass**
6)	**Chloroform**	**6.639**	**5000**	**4073.66**	**81%**	**56**	**132**	**pass**
11)	**Trichloroethene**	**8.564**	**5000**	**4182.45**	**84%**	**69**	**124**	**pass**
12)	Toluene-d8	10.477	5000	4461.78	89%	70	130	pass
15)	**Tetrachloroethene**	**11.432**	**5000**	**4005.12**	**80%**	**69**	**124**	**pass**

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172006.D
Acq On : 17 Nov 2020 9:52
InstName : AG5975C
Operator : TD
Sample : B20K062-BS1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 17 10:11:39 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

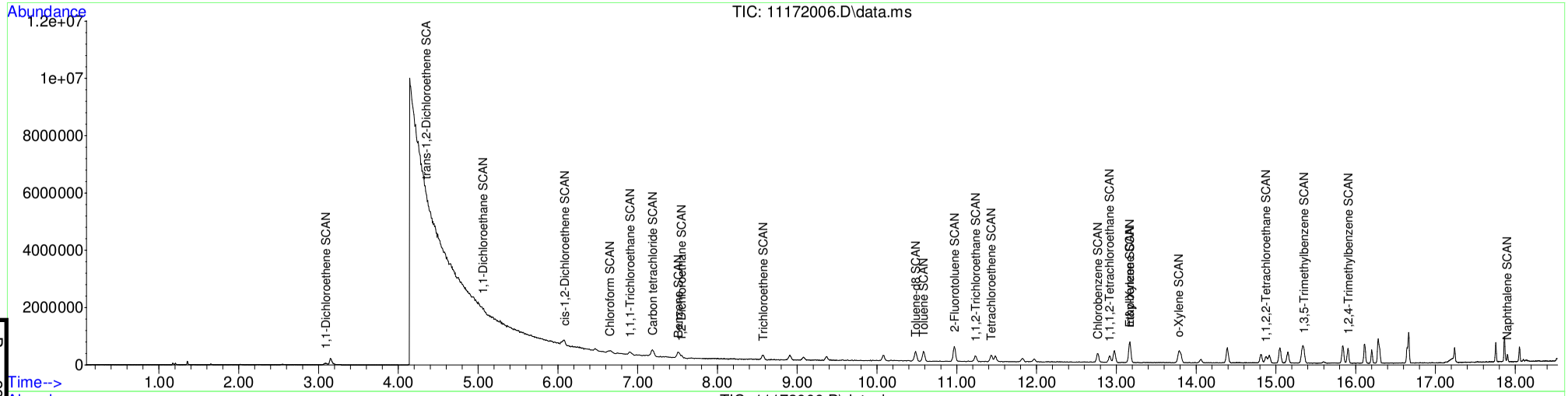
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	580027	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	506620	4461.78	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 89.24%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	93171	4022.68	ug/L	86
3] trans-1,2-Dichloroethene	4.349	61	108310	4047.46	ug/L	99
4] 1,1-Dichloroethane	5.066	63	136558	4099.48	ug/L	99
5] cis-1,2-Dichloroethene	6.074	61	142796	4061.08	ug/L	99
6] Chloroform	6.652	83	146610	4073.66	ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	160548	4107.64	ug/L	100
8] Carbon tetrachloride	7.175	117	148751	4043.54	ug/L	100
9] Benzene	7.503	78	392504	3982.80	ug/L	98
10] 1,2-Dichloroethane	7.540	62	139131	3954.82	ug/L	99
11] Trichloroethene	8.569	130	124102	4182.45	ug/L	94
13] Toluene	10.582	91	556902	3847.03	ug/L	99
14] 1,1,2-Trichloroethane	11.232	97	127253	4034.21	ug/L	96
15] Tetrachloroethene	11.432	166	167789	4005.12	ug/L	100
16] Chlorobenzene	12.765	112	388235	3745.47	ug/L	94
17] 1,1,1,2-Tetrachloroethane	12.916	131	150878	4062.25	ug/L	100
18] Ethylbenzene	12.972	91	709435	4026.19	ug/L	98
19] m&p-Xylene	13.162	91	1044597	7585.19	ug/L	97
20] o-Xylene	13.782	91	529961	3601.97	ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.877	83	245633	3766.95	ug/L	100
22] 1,3,5-Trimethylbenzene	15.345	105	612882	3913.59	ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	577671	3551.32	ug/L	97
24] Naphthalene	17.903	128	252956	983.92	ug/L	99
25) 2-Fluorotoluene SCAN	10.969	109	272875	4826.06	ug/L	96
26) 1,1-Dichloroethene SCAN	3.085	61	50523	4207.50	ug/L	87
27) trans-1,2-Dichloroethe...	4.348	61	60069	4042.63	ug/L	88
28) 1,1-Dichloroethane SCAN	5.065	63	72645	4224.46	ug/L	81
29) cis-1,2-Dichloroethene...	6.080	61	79566	4318.57	ug/L #	77
30) Chloroform SCAN	6.650	83	79995	4003.04	ug/L	92
31) 1,1,1-Trichloroethane ...	6.906	97	72437	3977.72	ug/L	90
32) Carbon tetrachloride SCAN	7.186	117	71780	3778.74	ug/L	91
33) Benzene SCAN	7.514	78	223795	4463.34	ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	73572	3973.72	ug/L	87
35) Trichloroethene SCAN	8.574	130	59008	4282.45	ug/L	90
36) Toluene-d8 SCAN	10.486	98	252940	4574.27	ug/L	94
37) Toluene SCAN	10.580	91	296189	4182.57	ug/L	95
38) 1,1,2-Trichloroethane ...	11.231	97	70946	4463.42	ug/L	94
39) Tetrachloroethene SCAN	11.430	166	72225	4245.25	ug/L	95
40) Chlorobenzene SCAN	12.764	112	182349	3768.35	ug/L	89
41) 1,1,1,2-Tetrachloroeth...	12.915	131	69500	3880.96	ug/L	96
42) Ethylbenzene SCAN	13.169	91	515829	3998.28	ug/L	92
43) m&p-Xylene SCAN	13.169	91	515829	3998.28	ug/L	93
44) o-Xylene SCAN	13.781	91	264424	3829.05	ug/L	95
45) 1,1,2,2-Tetrachloroeth...	14.875	83	130078	3862.94	ug/L	99
46) 1,3,5-Trimethylbenzene...	15.348	105	292673	4021.37	ug/L	98
47) 1,2,4-Trimethylbenzene...	15.904	105	261933	3517.32	ug/L	97
48) Naphthalene SCAN	17.901	128	107046	949.96	ug/L	99

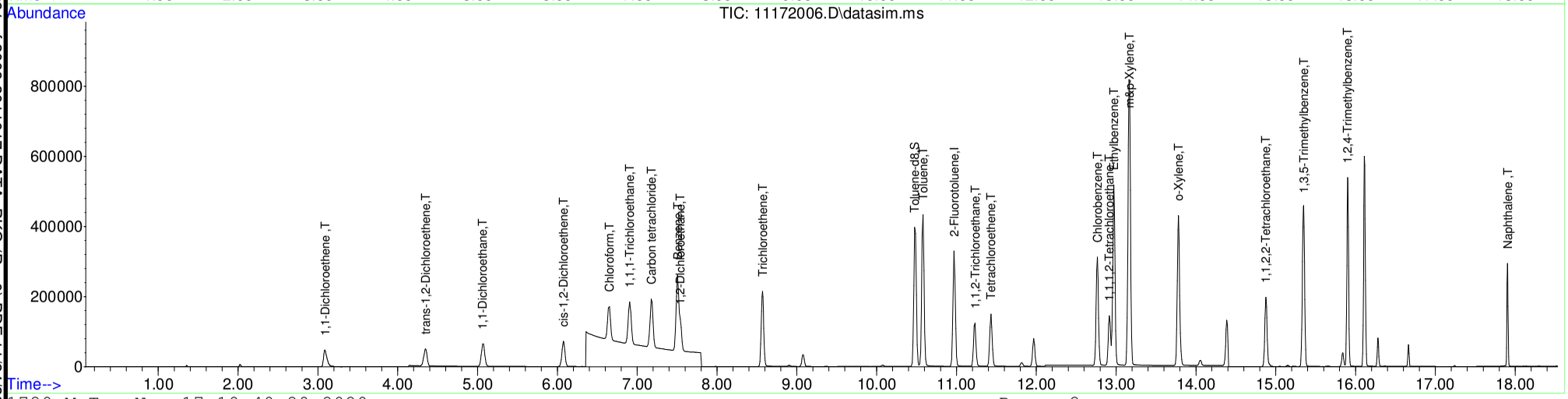
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172006.D
Acq On : 17 Nov 2020 9:52
InstName : AG5975C
Operator : TD
Sample : B20K062-BS1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 17 10:11:39 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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B20K062-BSD1

Blanks Spike or Blank Spike Duplicate

Instrument Name: AG5975C
Sample Name: B20K062-BSD1
Misc Info: 0
Date Acquired: 11/17/2020
QLast Update: Mon Nov 16 10:20:51 2020
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.970	5000	5000.00	100%	70	130	pass
2)	**1,1-Dichloroethene**	**3.086**	**5000**	**3399.46**	**68%**	**22**	**143**	**pass**
3)	**trans-1,2-Dichloroethene**	**4.343**	**5000**	**3395.74**	**68%**	**35**	**133**	**pass**
4)	**1,1-Dichloroethane**	**5.066**	**5000**	**3466.34**	**69%**	**43**	**140**	**pass**
5)	**cis-1,2-Dichloroethene**	**6.074**	**5000**	**3464.47**	**69%**	**49**	**134**	**pass**
6)	**Chloroform**	**6.639**	**5000**	**3501.30**	**70%**	**56**	**132**	**pass**
11)	**Trichloroethene**	**8.564**	**5000**	**3563.95**	**71%**	**69**	**124**	**pass**
12)	Toluene-d8	10.477	5000	4447.90	89%	70	130	pass
15)	**Tetrachloroethene**	**11.432**	**5000**	**3472.46**	**69%**	**69**	**124**	**pass**

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172007.D
Acq On : 17 Nov 2020 10:16
InstName : AG5975C
Operator : TD
Sample : B20K062-BSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 17 10:35:21 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

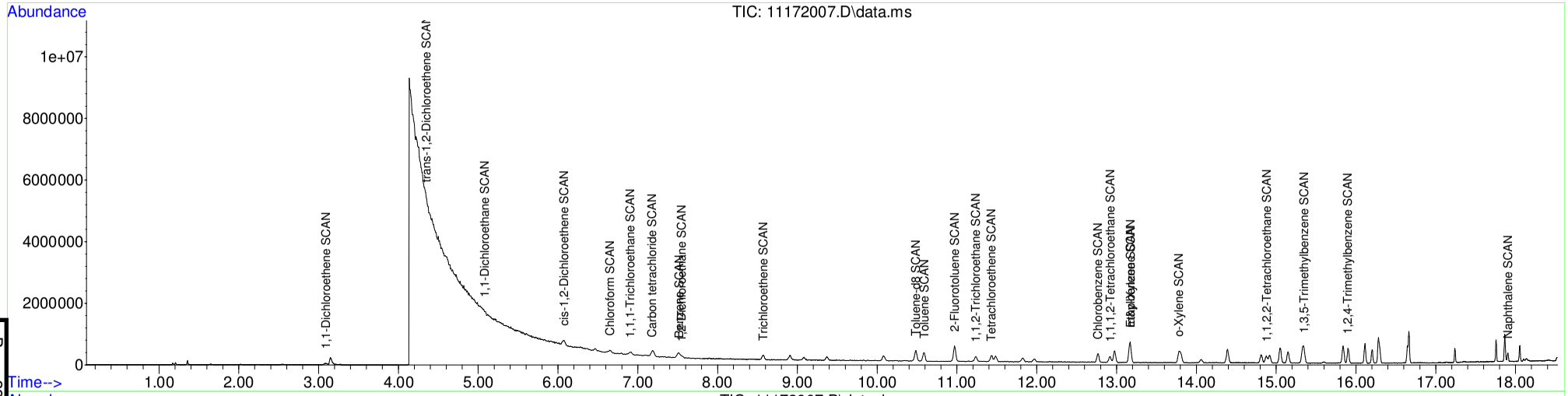
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	579612	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	504682	4447.90 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.96%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	78680	3399.46 ug/L	85
3] trans-1,2-Dichloroethene	4.343	61	90805	3395.74 ug/L	99
4] 1,1-Dichloroethane	5.066	63	115385	3466.34 ug/L	99
5] cis-1,2-Dichloroethene	6.074	61	121731	3464.47 ug/L	99
6] Chloroform	6.652	83	125921	3501.30 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	134427	3441.79 ug/L	99
8] Carbon tetrachloride	7.175	117	124139	3376.92 ug/L	99
9] Benzene	7.503	78	334301	3394.63 ug/L	98
10] 1,2-Dichloroethane	7.540	62	120414	3425.24 ug/L	100
11] Trichloroethene	8.569	130	105674	3563.95 ug/L	94
13] Toluene	10.582	91	483941	3345.42 ug/L	99
14] 1,1,2-Trichloroethane	11.232	97	113523	3601.51 ug/L	96
15] Tetrachloroethene	11.432	166	145370	3472.46 ug/L	100
16] Chlorobenzene	12.765	112	352022	3398.54 ug/L	94
17] 1,1,1,2-Tetrachloroethane	12.916	131	136040	3665.37 ug/L	99
18] Ethylbenzene	12.972	91	634682	3604.53 ug/L	98
19] m&p-Xylene	13.163	91	943647	6857.06 ug/L	97
20] o-Xylene	13.782	91	484295	3293.95 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.877	83	233233	3579.35 ug/L	100
22] 1,3,5-Trimethylbenzene	15.345	105	572939	3661.15 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	547228	3366.57 ug/L	97
24] Naphthalene	17.903	128	272722	1061.56 ug/L	98
25) 2-Fluorotoluene SCAN	10.969	109	277238	4906.74 ug/L	96
26) 1,1-Dichloroethene SCAN	3.085	61	42491	3541.14 ug/L	88
27) trans-1,2-Dichloroethe...	4.348	61	49723	3348.74 ug/L	87
28) 1,1-Dichloroethane SCAN	5.078	63	65109	3788.94 ug/L	92
29) cis-1,2-Dichloroethene...	6.073	61	69223	3759.87 ug/L #	75
30) Chloroform SCAN	6.650	83	64107	3210.28 ug/L	88
31) 1,1,1-Trichloroethane ...	6.906	97	68846	3783.24 ug/L	82
32) Carbon tetrachloride SCAN	7.173	117	57968	3053.82 ug/L	88
33) Benzene SCAN	7.514	78	208940	4170.05 ug/L	98
34) 1,2-Dichloroethane SCAN	7.551	62	67503	3648.54 ug/L	84
35) Trichloroethene SCAN	8.568	130	49764	3614.16 ug/L	87
36) Toluene-d8 SCAN	10.486	98	256829	4647.92 ug/L	95
37) Toluene SCAN	10.591	91	244445	3454.35 ug/L	98
38) 1,1,2-Trichloroethane ...	11.231	97	53716	3381.85 ug/L	86
39) Tetrachloroethene SCAN	11.431	166	65454	3850.02 ug/L	96
40) Chlorobenzene SCAN	12.764	112	161517	3340.24 ug/L	91
41) 1,1,1,2-Tetrachloroeth...	12.915	131	61510	3437.25 ug/L	92
42) Ethylbenzene SCAN	13.169	91	472136	3662.23 ug/L	92
43) m&p-Xylene SCAN	13.169	91	472136	3662.23 ug/L	92
44) o-Xylene SCAN	13.781	91	247629	3588.41 ug/L	95
45) 1,1,2,2-Tetrachloroeth...	14.876	83	127824	3798.72 ug/L	96
46) 1,3,5-Trimethylbenzene...	15.348	105	270870	3724.46 ug/L	98
47) 1,2,4-Trimethylbenzene...	15.899	105	249534	3353.22 ug/L	99
48) Naphthalene SCAN	17.905	128	121595	1079.85 ug/L	99

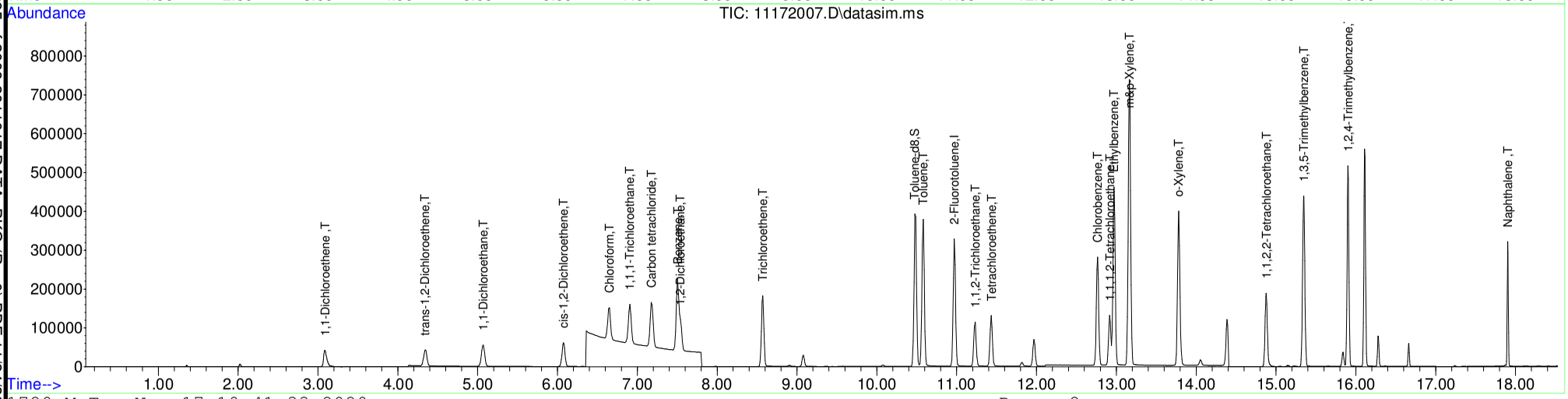
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172007.D
Acq On : 17 Nov 2020 10:16
InstName : AG5975C
Operator : TD
Sample : B20K062-BSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 17 10:35:21 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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B20K062-MRL1

Quantitation Report (Not Reviewed)

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Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172008.D
Acq On : 17 Nov 2020 10:40
InstName : AG5975C
Operator : TD
Sample : B20K062-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 17 10:58:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

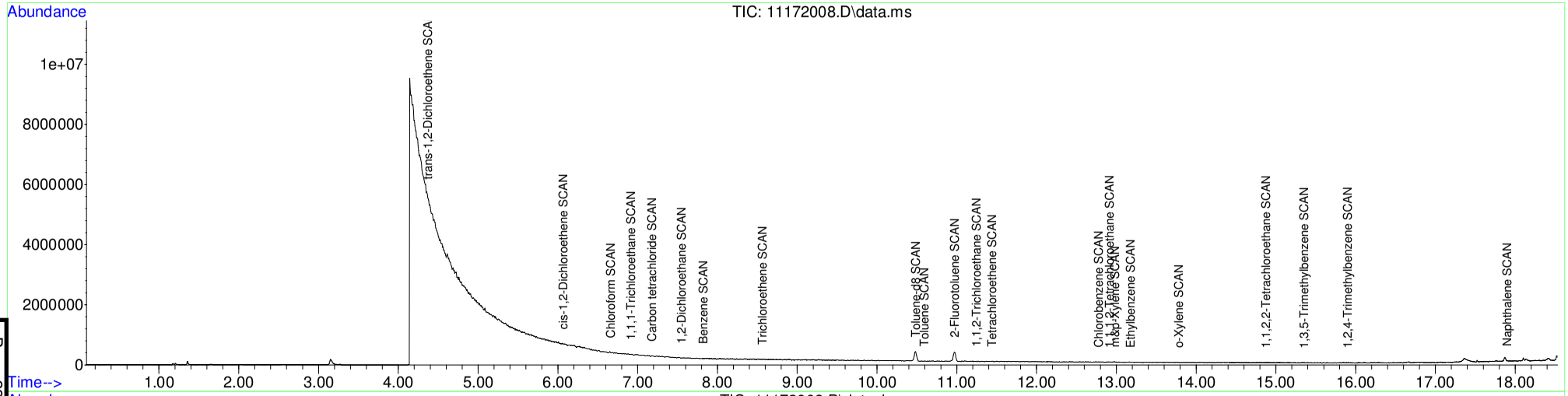
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	542657	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	468484	4410.05	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.20%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	1420	65.53	ug/L	79
3] trans-1,2-Dichloroethene	4.336	61	996	39.78	ug/L #	45
4] 1,1-Dichloroethane	5.059	63	1293	41.49	ug/L	46
5] cis-1,2-Dichloroethene	6.074	61	1337	40.64	ug/L	98
6] Chloroform	6.639	83	1450	43.06	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1549	42.36	ug/L	98
8] Carbon tetrachloride	7.175	117	1433	41.64	ug/L	100
9] Benzene	7.503	78	9310	100.98	ug/L #	28
10] 1,2-Dichloroethane	7.540	62	1407	42.75	ug/L #	1
11] Trichloroethene	8.564	130	1338	48.20	ug/L	94
13] Toluene	10.582	91	6794	50.16	ug/L	98
14] 1,1,2-Trichloroethane	11.232	97	1379	46.73	ug/L	97
15] Tetrachloroethene	11.432	166	1841	46.97	ug/L	95
16] Chlorobenzene	12.765	112	4776	49.25	ug/L	79
17] 1,1,1,2-Tetrachloroethane	12.916	131	1718	49.44	ug/L	97
18] Ethylbenzene	12.972	91	8848	53.67	ug/L	95
19] m&p-Xylene	13.162	91	13810	107.19	ug/L	93
20] o-Xylene	13.782	91	6602	47.96	ug/L	98
21] 1,1,2,2-Tetrachloroethane	14.880	83	2879	47.19	ug/L	97
22] 1,3,5-Trimethylbenzene	15.345	105	7546	51.50	ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	9137	60.04	ug/L	87
25) 2-Fluorotoluene SCAN	10.969	109	265508	5019.15	ug/L	98
27) trans-1,2-Dichloroethe...	4.361	61	1012	72.80	ug/L #	34
29) cis-1,2-Dichloroethene...	6.066	61	784	45.48	ug/L #	1
30) Chloroform SCAN	6.662	83	503	26.90	ug/L #	1
31) 1,1,1-Trichloroethane ...	6.918	97	1520	89.22	ug/L #	39
32) Carbon tetrachloride SCAN	7.173	117	986	55.48	ug/L #	15
33) Benzene SCAN	7.822	78	6435	137.18	ug/L	92
34) 1,2-Dichloroethane SCAN	7.550	62	507	29.27	ug/L #	1
35) Trichloroethene SCAN	8.563	130	326	25.29	ug/L #	1
36) Toluene-d8 SCAN	10.486	98	234139	4525.85	ug/L	98
37) Toluene SCAN	10.591	91	4700	70.94	ug/L	97
38) 1,1,2-Trichloroethane ...	11.242	97	400	26.90	ug/L #	42
39) Tetrachloroethene SCAN	11.441	166	582	36.56	ug/L #	76
40) Chlorobenzene SCAN	12.780	112	3297	72.83	ug/L #	25
41) 1,1,1,2-Tetrachloroeth...	12.915	131	823	49.12	ug/L #	79
42) Ethylbenzene SCAN	13.177	91	6696	55.48	ug/L	95
43) m&p-Xylene SCAN	12.978	91	4875	40.39	ug/L	75
44) o-Xylene SCAN	13.781	91	4073	63.04	ug/L	89
45) 1,1,2,2-Tetrachloroeth...	14.872	83	874	27.74	ug/L #	25
46) 1,3,5-Trimethylbenzene...	15.348	105	4677	68.69	ug/L	87
47) 1,2,4-Trimethylbenzene...	15.899	105	5611	80.53	ug/L	87
48) Naphthalene SCAN	17.901	128	2871	27.23	ug/L #	76

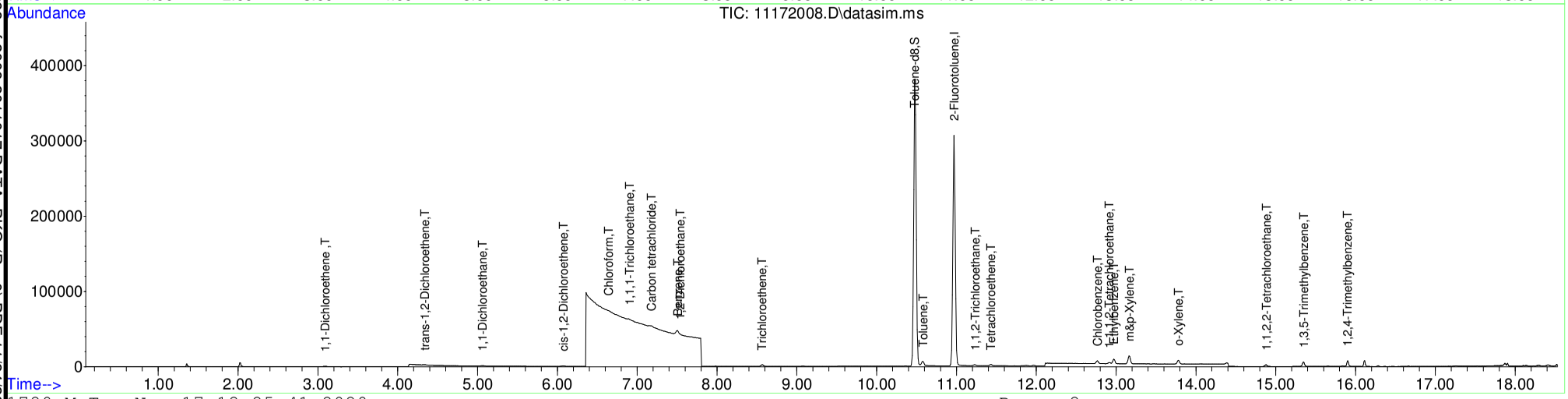
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172008.D
Acq On : 17 Nov 2020 10:40
InstName : AG5975C
Operator : TD
Sample : B20K062-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 17 10:58:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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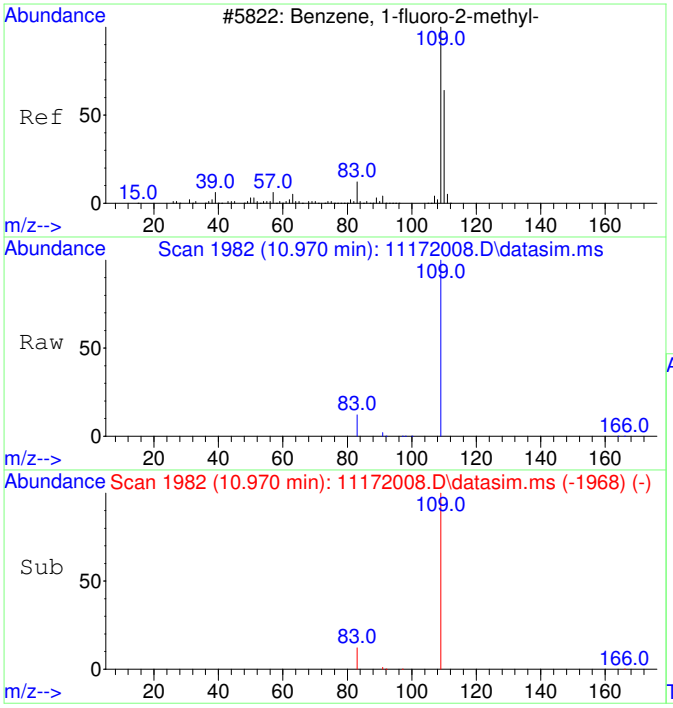
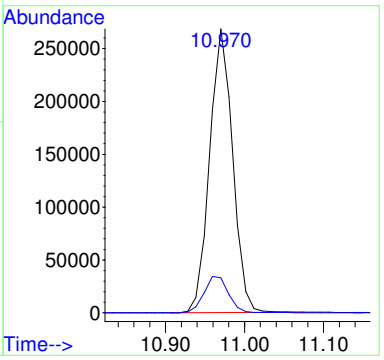
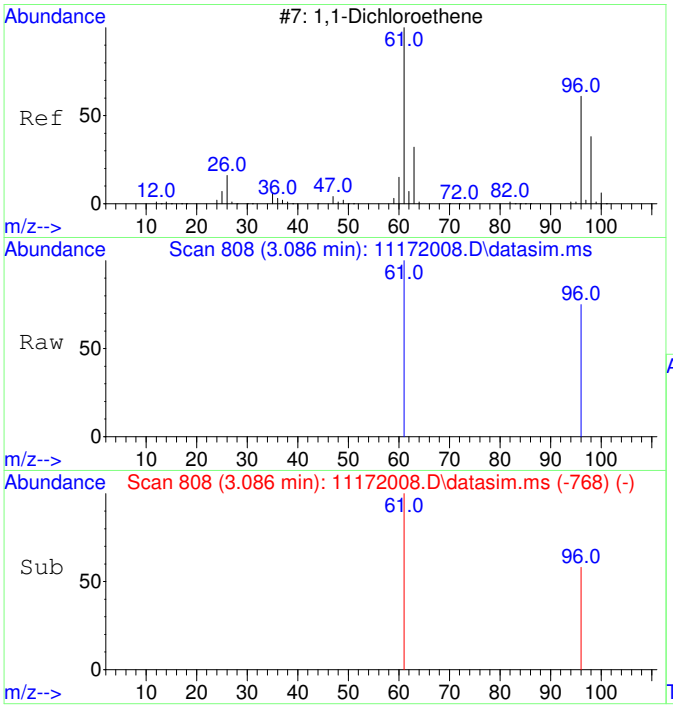


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:109 Resp: 542657

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

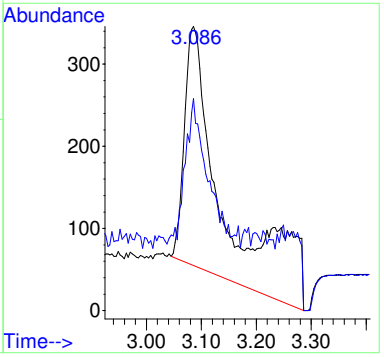




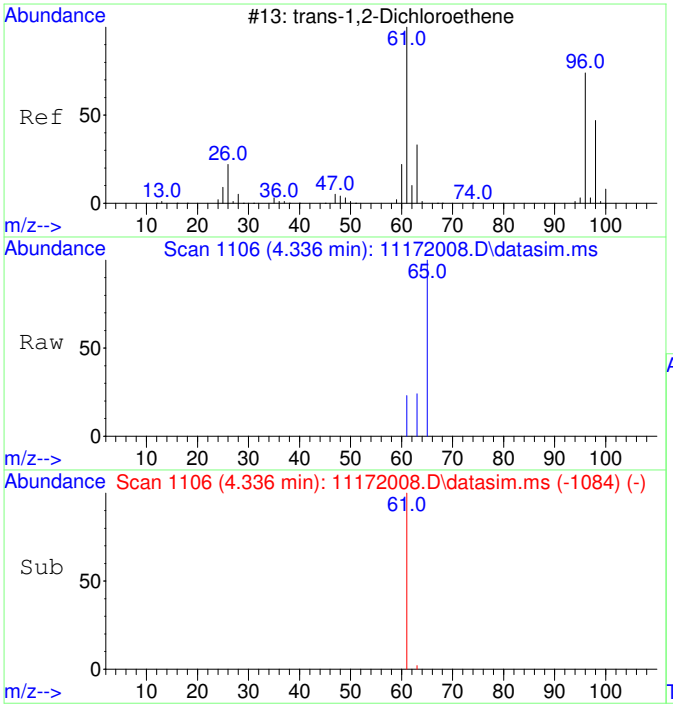
#2
1,1-Dichloroethene
Concen: 65.53 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 1420

Ion	Ratio	Lower	Upper
61	100		
96	50.7	37.2	97.2



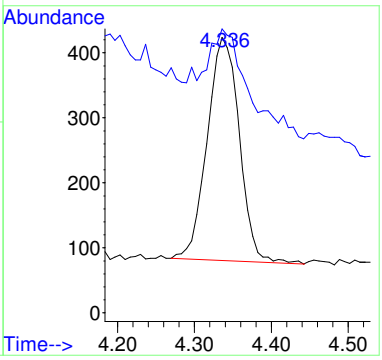
Before MI:
IMPROPER
BASELINE

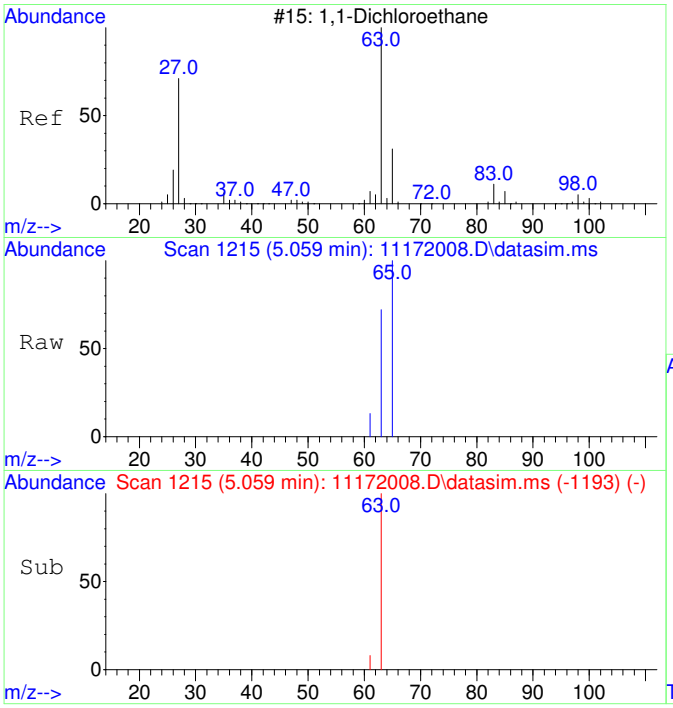


#3
trans-1,2-Dichloroethene
Concen: 39.78 ug/L
RT: 4.336 min Scan# 1106
Delta R.T. -0.007 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 996

Ion	Ratio	Lower	Upper
61	100		
63	63.3	2.4	62.4#

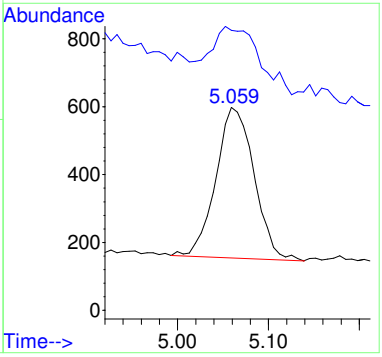


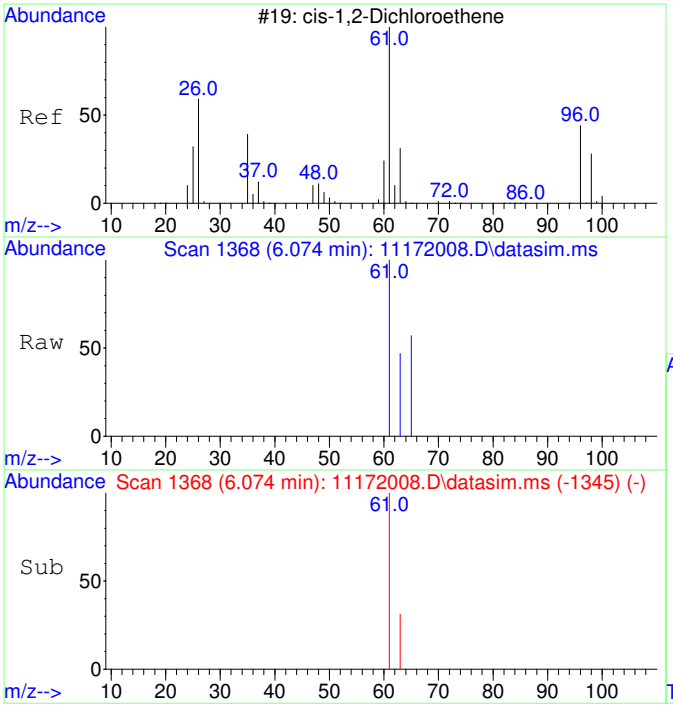


#4
1,1-Dichloroethane
Concen: 41.49 ug/L
RT: 5.059 min Scan# 1215
Delta R.T. -0.007 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 63 Resp: 1293

Ion	Ratio	Lower	Upper
63	100		
65	61.8	1.8	61.8

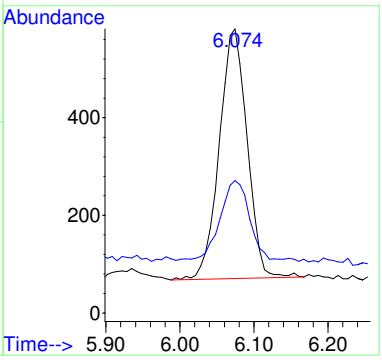


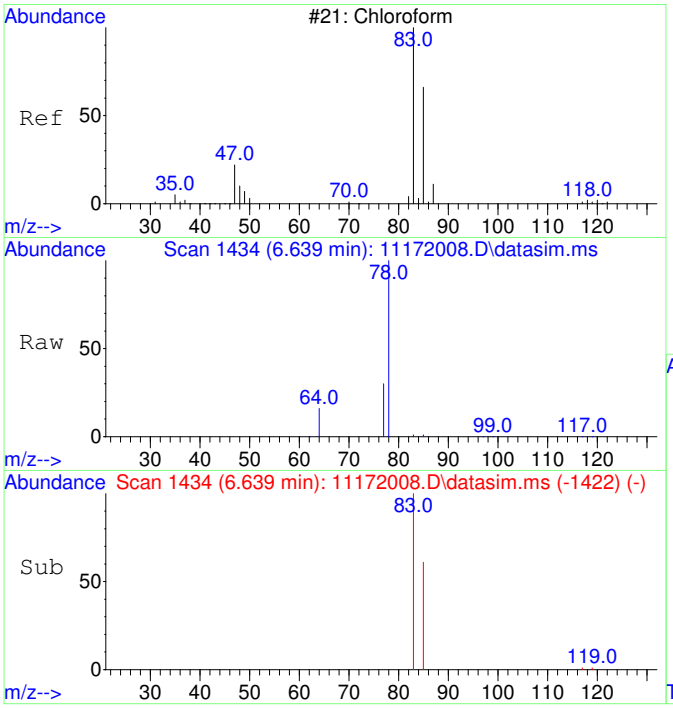


#5
cis-1,2-Dichloroethene
Concen: 40.64 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 1337

Ion	Ratio	Lower	Upper
61	100		
63	33.7	2.5	62.5

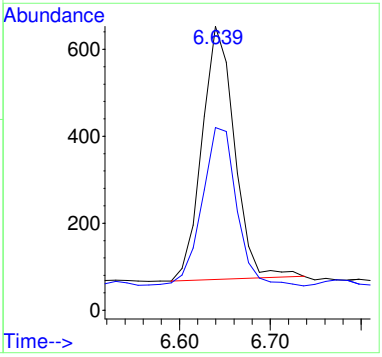


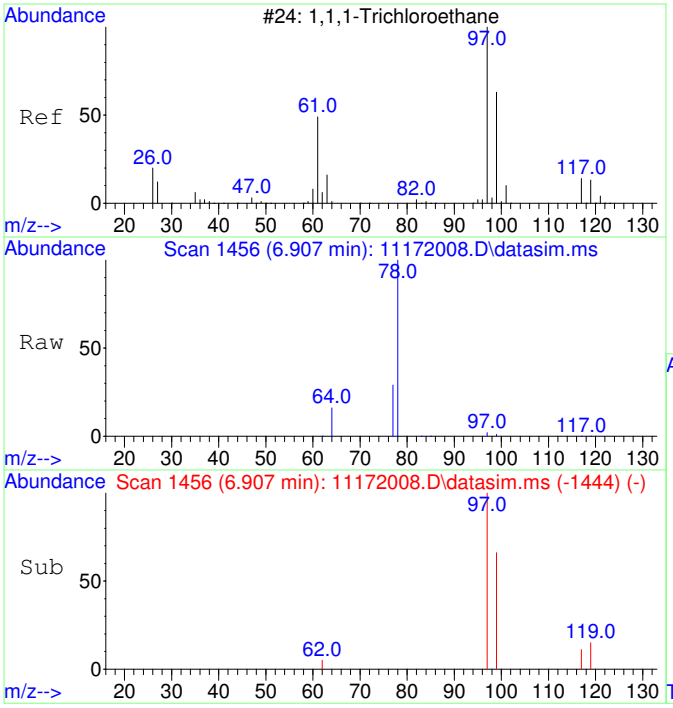


#6
Chloroform
Concen: 43.06 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 1450

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.1	95.1

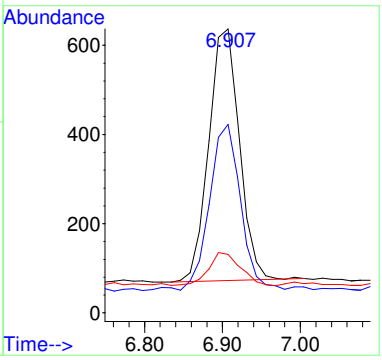


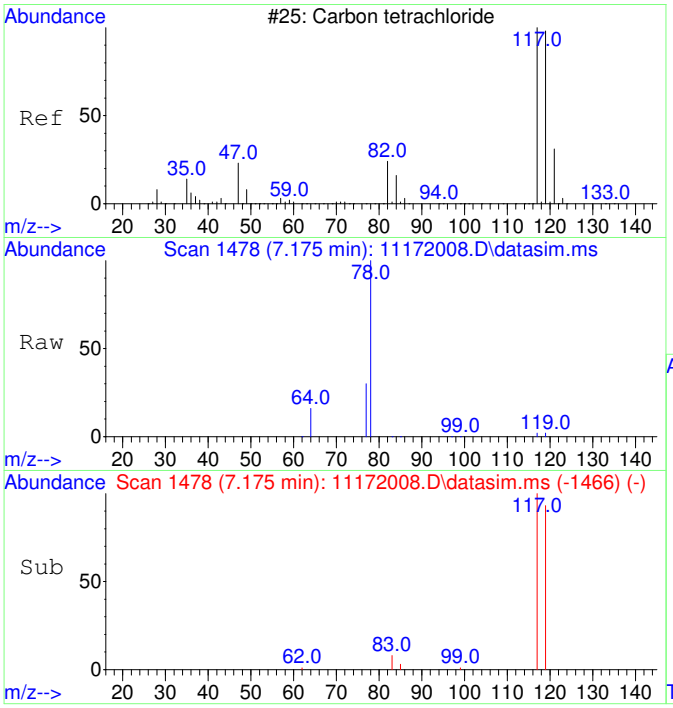


#7
1,1,1-Trichloroethane
Concen: 42.36 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 1549

Ion	Ratio	Lower	Upper
97	100		
99	66.4	34.6	94.6
117	13.8	0.0	43.2

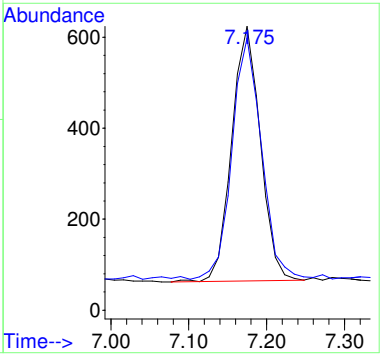


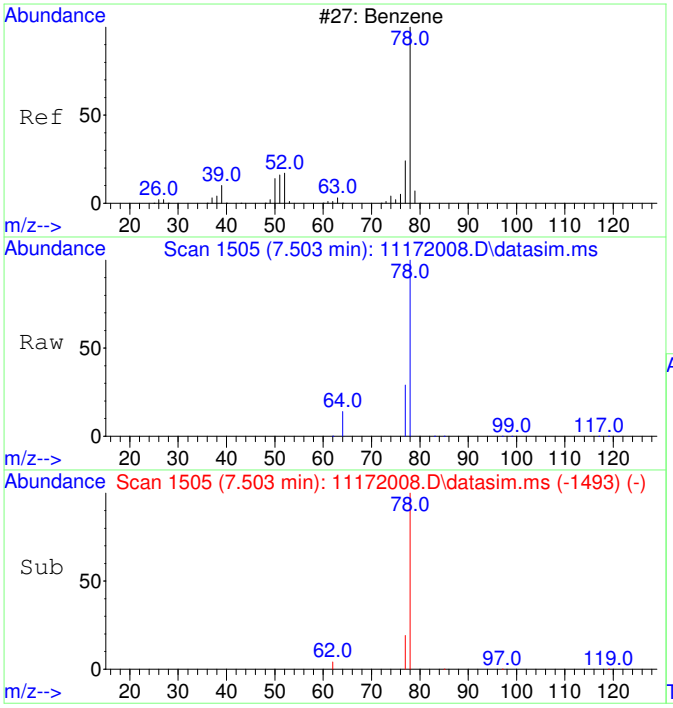


#8
Carbon tetrachloride
Concen: 41.64 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:117 Resp: 1433

Ion	Ratio	Lower	Upper
117	100		
119	96.2	66.4	126.4

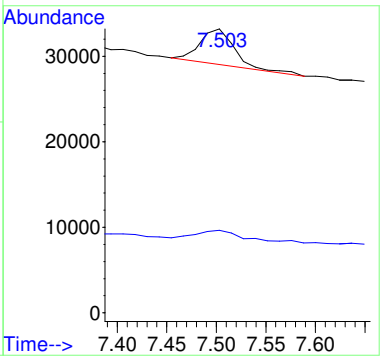


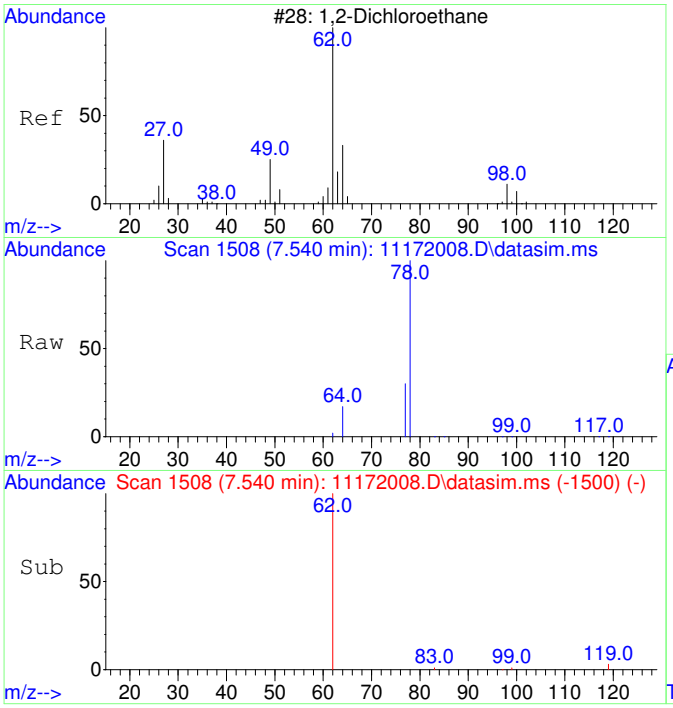


#9
Benzene
Concen: 100.98 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 78 Resp: 9310

Ion	Ratio	Lower	Upper
78	100		
77	58.3	0.0	53.2#

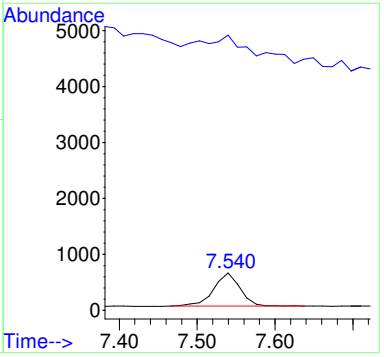


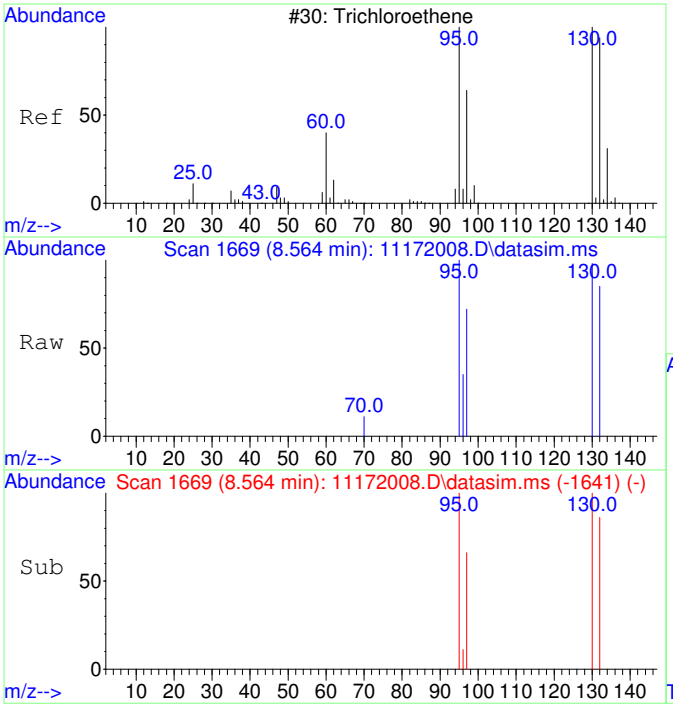


#10
1,2-Dichloroethane
Concen: 42.75 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 62 Resp: 1407

Ion	Ratio	Lower	Upper
62	100		
64	170.0	2.3	62.3#

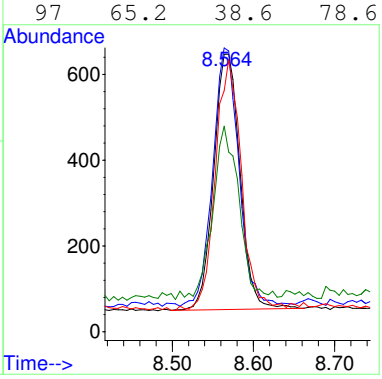


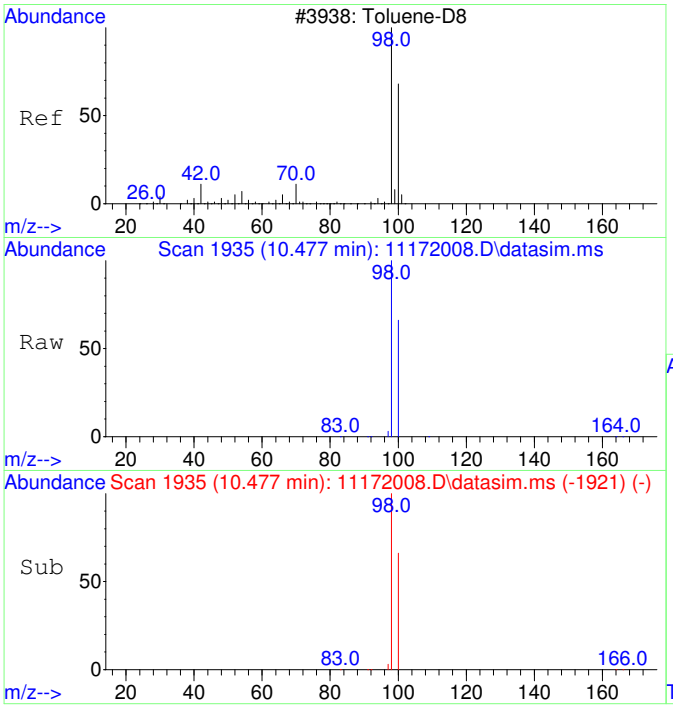


#11
Trichloroethene
Concen: 48.20 ug/L
RT: 8.564 min Scan# 1669
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:130 Resp: 1338

Ion	Ratio	Lower	Upper
130	100		
95	99.1	60.7	120.7
132	94.5	76.0	116.0
97	65.2	38.6	78.6

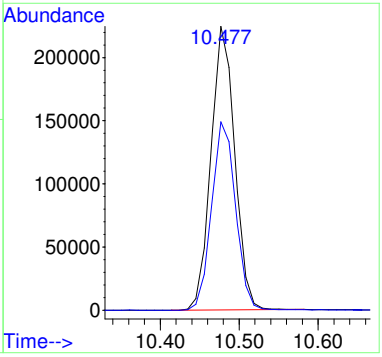


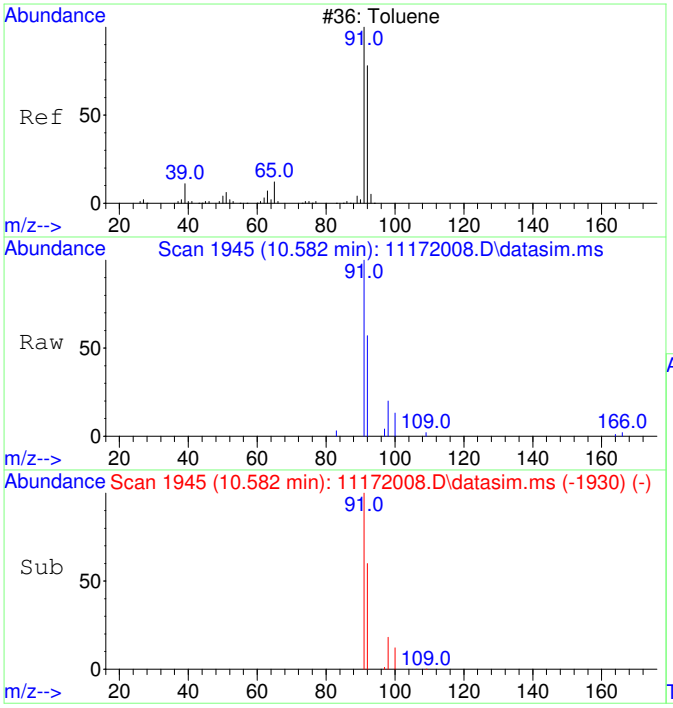


#12
Toluene-d8
Concen: 4410.05 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 98 Resp: 468484

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.1	97.1

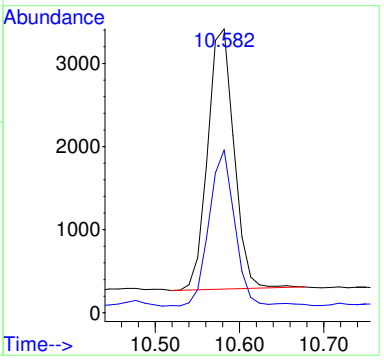


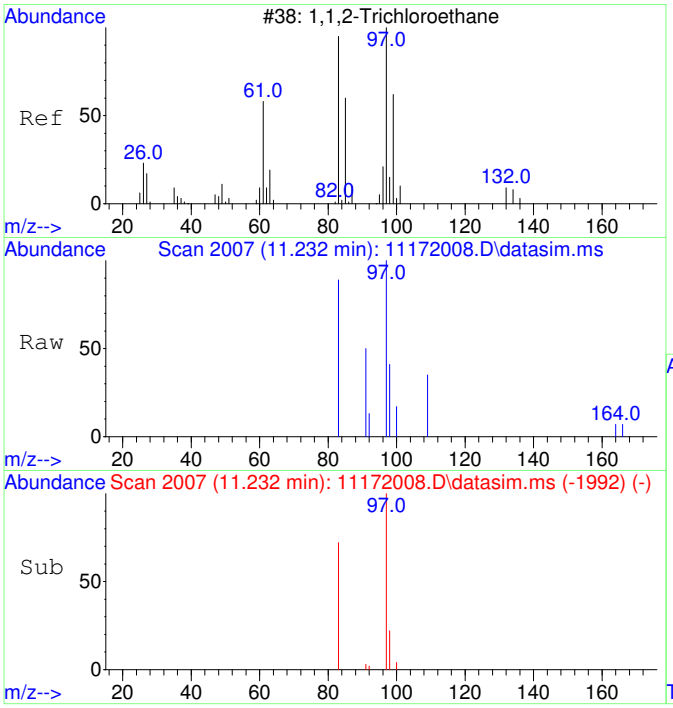


#13
Toluene
Concen: 50.16 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 6794

Ion	Ratio	Lower	Upper
91	100		
92	58.2	29.9	89.9

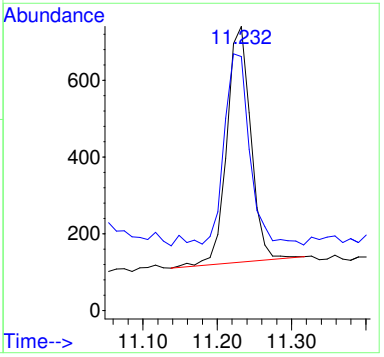


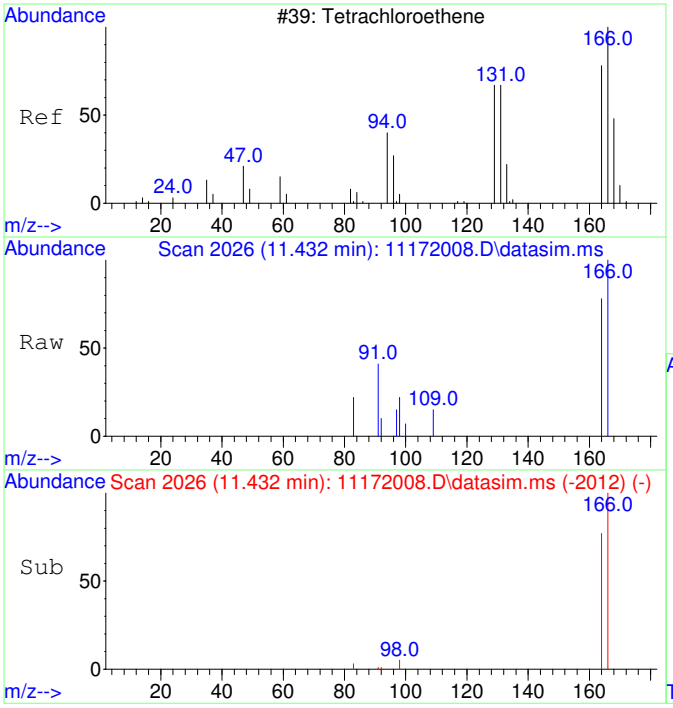


#14
1,1,2-Trichloroethane
Concen: 46.73 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 1379

Ion	Ratio	Lower	Upper
97	100		
83	84.3	51.2	111.2

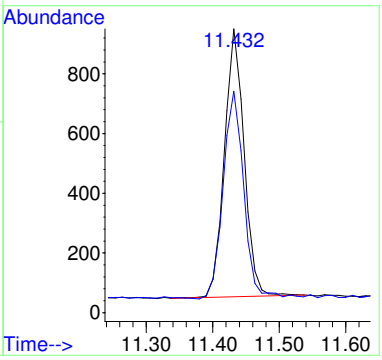


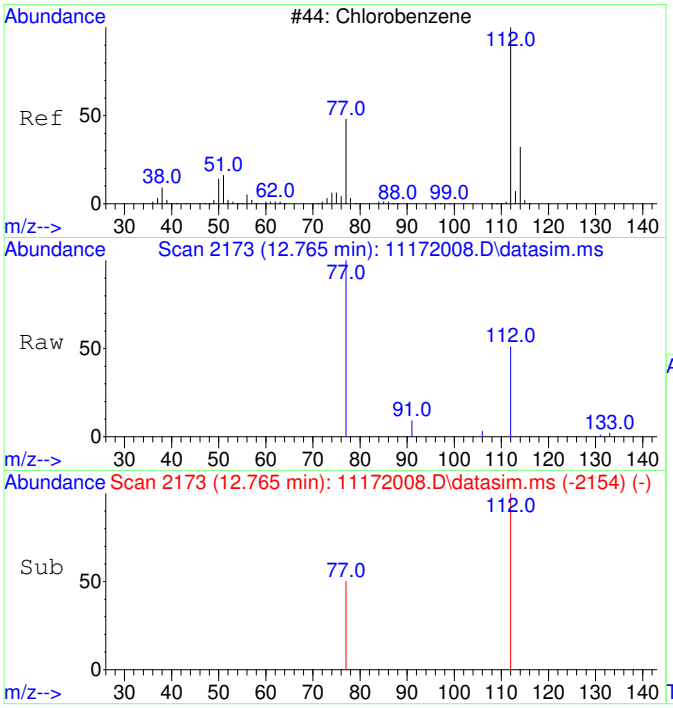


#15
Tetrachloroethene
Concen: 46.97 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:166 Resp: 1841

Ion	Ratio	Lower	Upper
166	100		
164	82.1	47.8	107.8

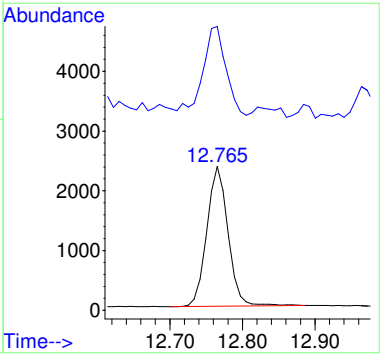


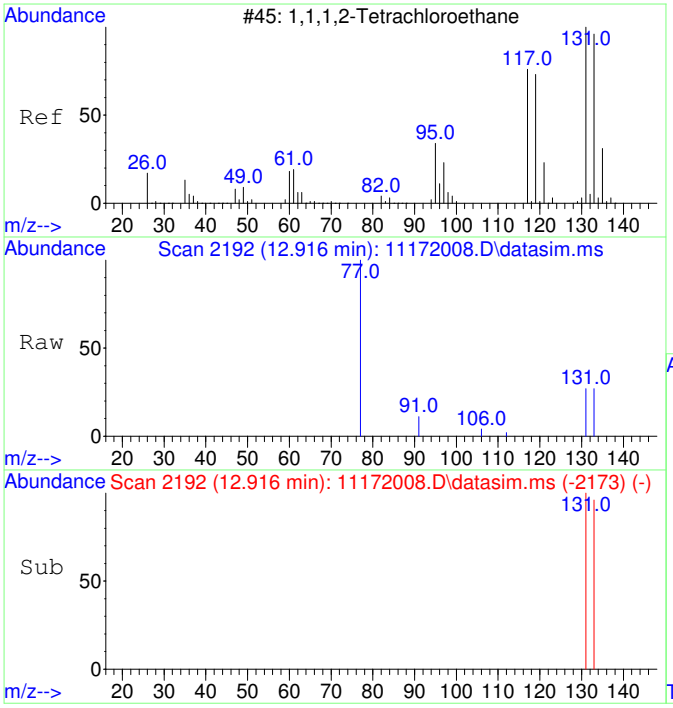


#16
Chlorobenzene
Concen: 49.25 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:112 Resp: 4776

Ion	Ratio	Lower	Upper
112	100		
77	68.7	23.6	83.6

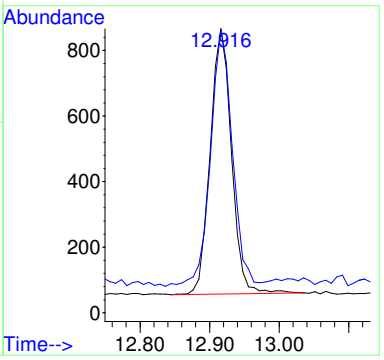


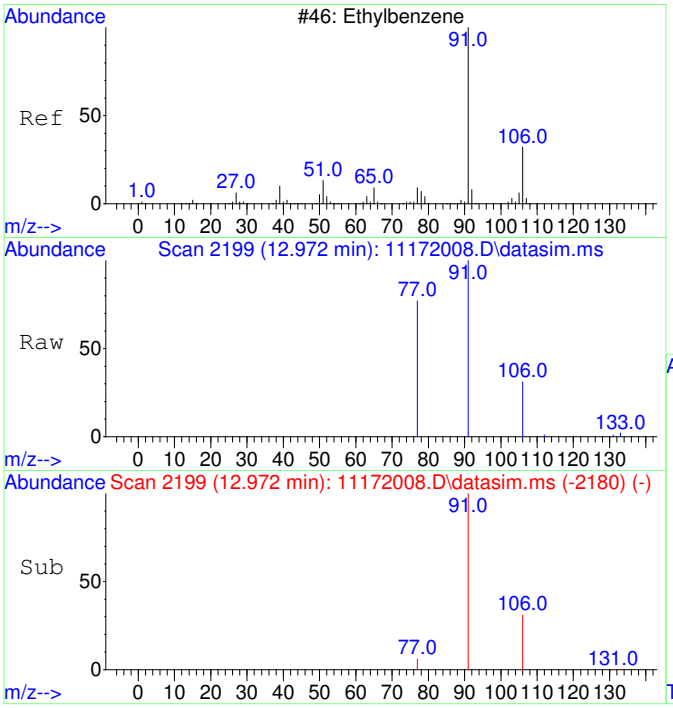


#17
1,1,1,2-Tetrachloroethane
Concen: 49.44 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:131 Resp: 1718

Ion	Ratio	Lower	Upper
131	100		
133	99.6	66.3	126.3

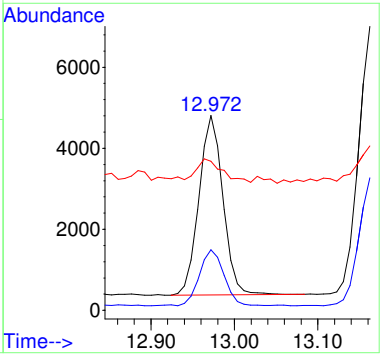


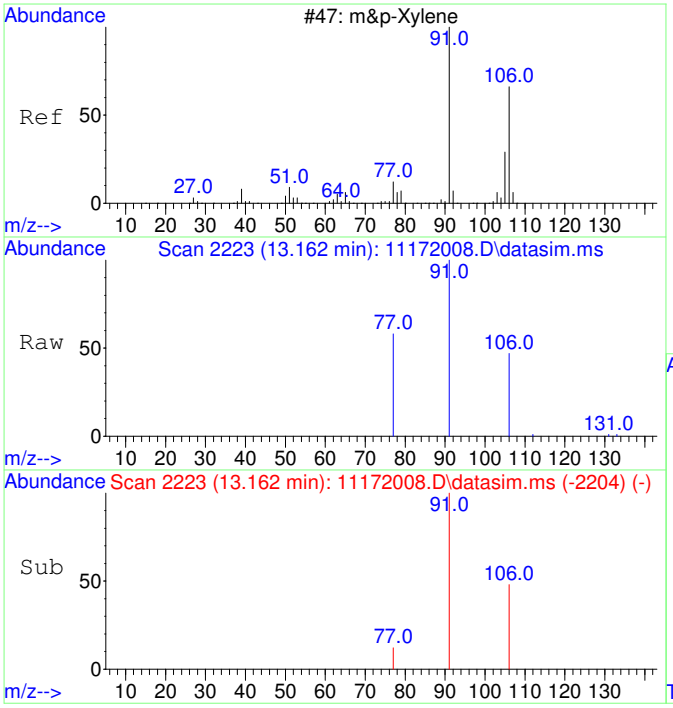


#18
Ethylbenzene
Concen: 53.67 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 8848

Ion	Ratio	Lower	Upper
91	100		
106	31.7	3.0	63.0
77	14.7	0.0	38.2

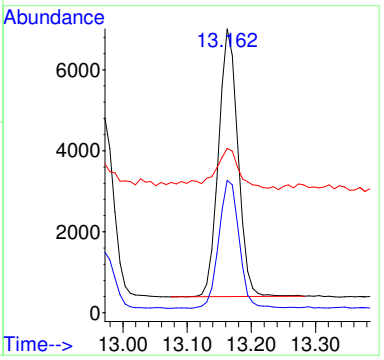


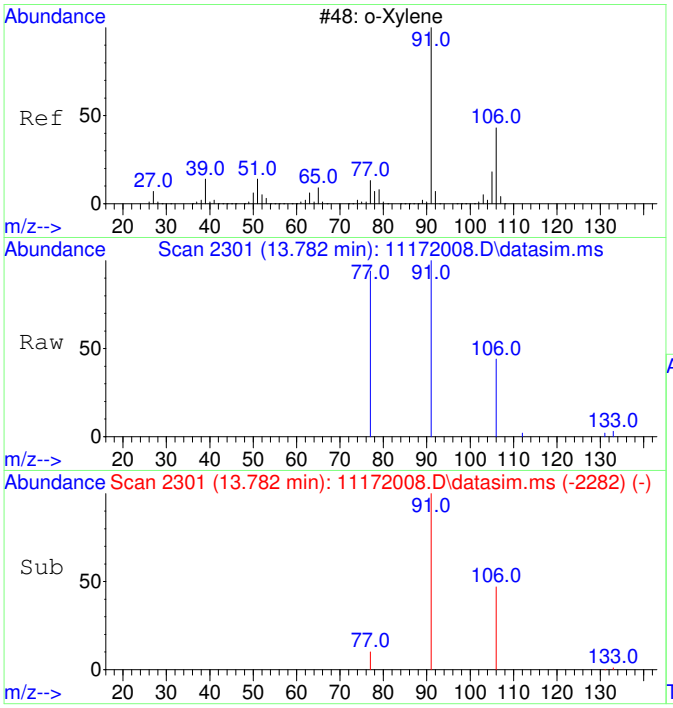


#19
m&p-Xylene
Concen: 107.19 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 13810

Ion	Ratio	Lower	Upper
91	100		
106	49.7	22.2	82.2
77	20.8	0.0	42.4

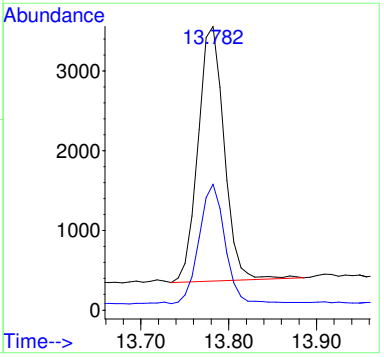


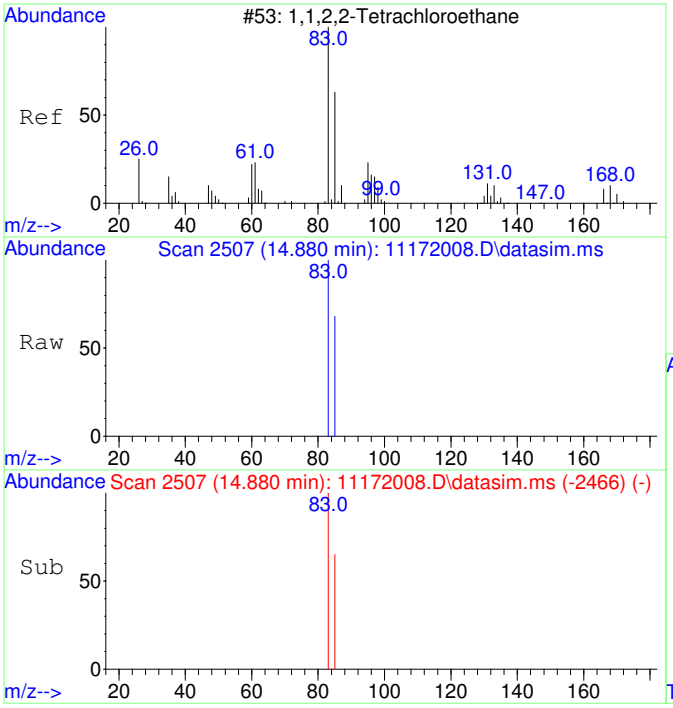


#20
o-Xylene
Concen: 47.96 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 6602

Ion	Ratio	Lower	Upper
91	100		
106	47.6	19.2	79.2

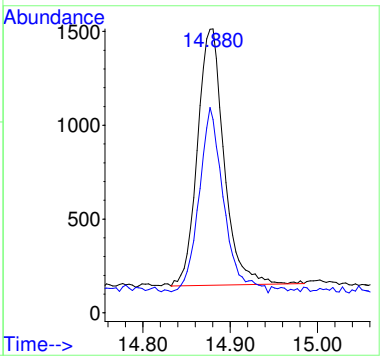


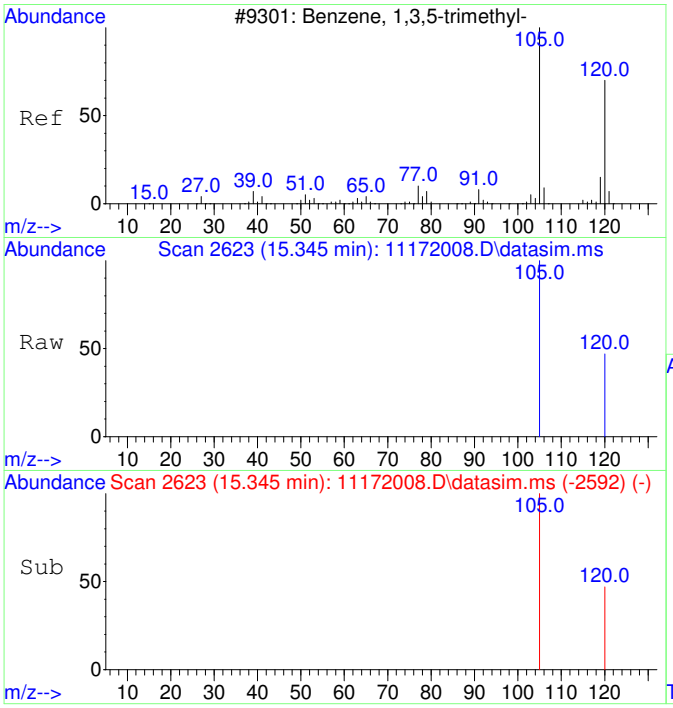


#21
1,1,2,2-Tetrachloroethane
Concen: 47.19 ug/L
RT: 14.880 min Scan# 2507
Delta R.T. 0.004 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 2879

Ion	Ratio	Lower	Upper
83	100		
85	67.1	34.8	94.8

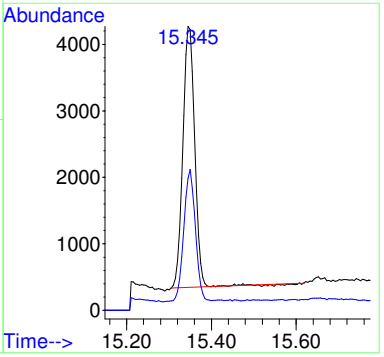


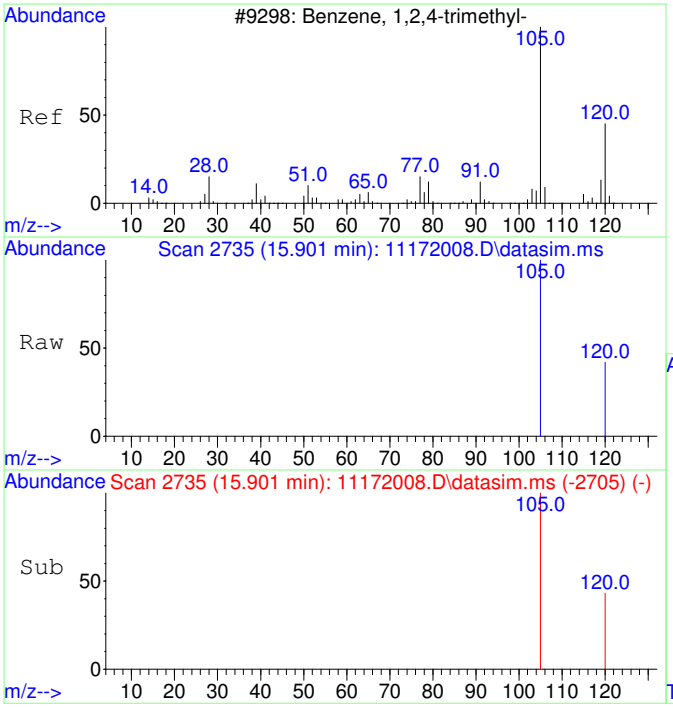


#22
1,3,5-Trimethylbenzene
Concen: 51.50 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 7546

Ion	Ratio	Lower	Upper
105	100		
120	49.3	21.1	81.1

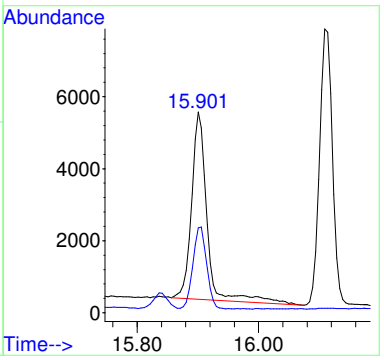


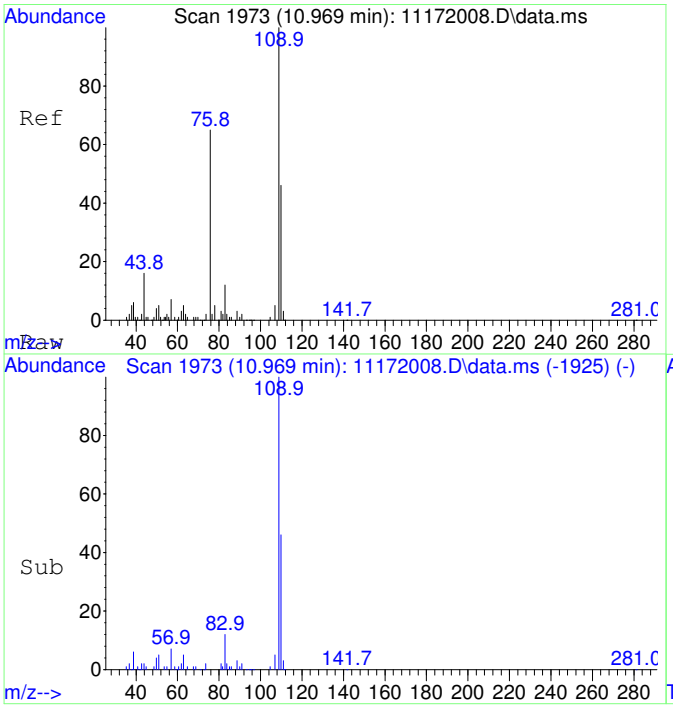


#23
1,2,4-Trimethylbenzene
Concen: 60.04 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 9137

Ion	Ratio	Lower	Upper
105	100		
120	38.7	17.2	77.2

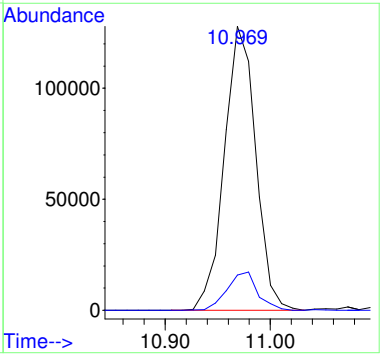


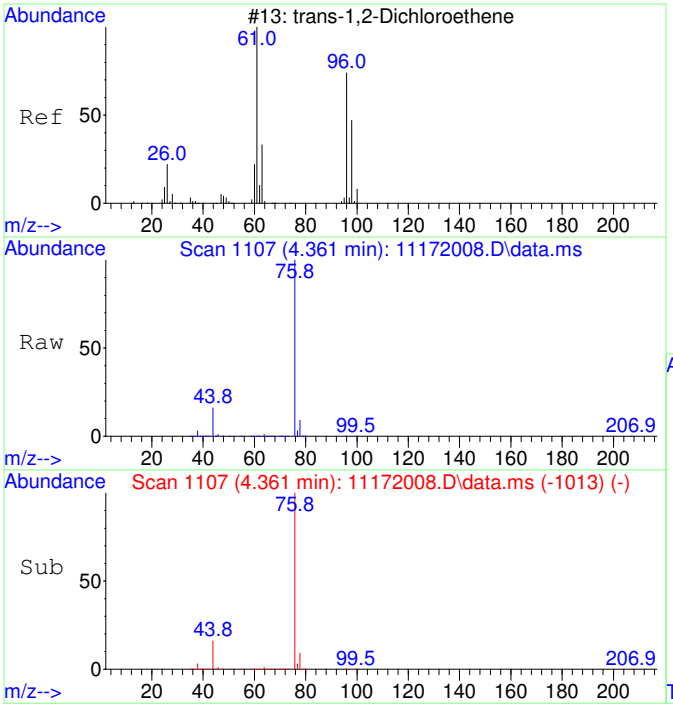


#25
2-Fluorotoluene SCAN
Concen: 5019.15 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:109 Resp: 265508

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.8

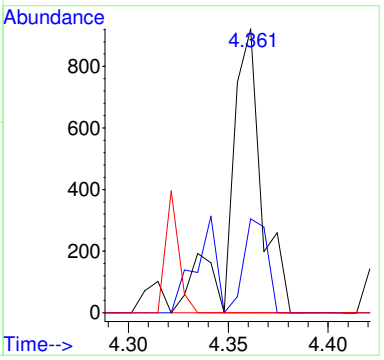


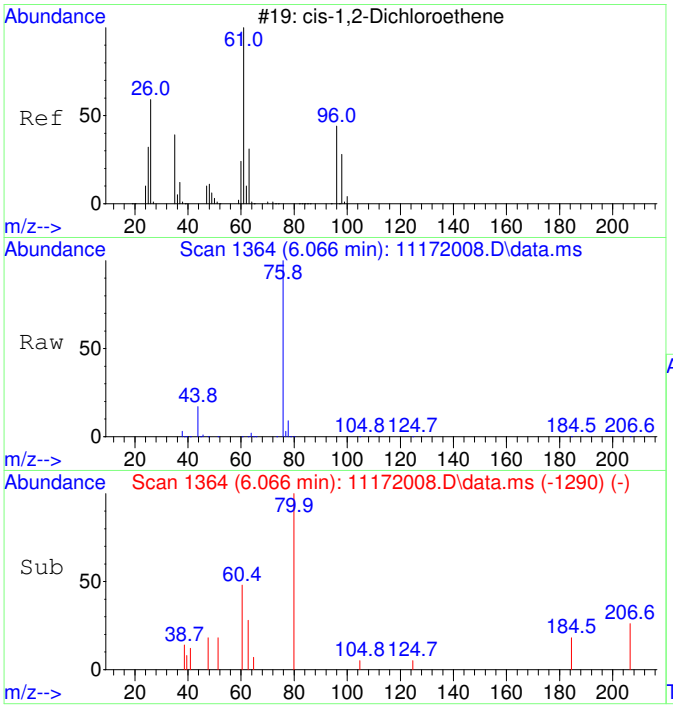


#27
trans-1,2-Dichloroethene SCAN
Concen: 72.80 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. 0.013 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 1012

Ion	Ratio	Lower	Upper
61	100		
96	25.0	49.0	109.0#
98	0.0	20.5	80.5#

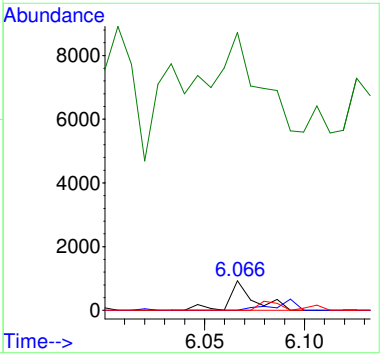


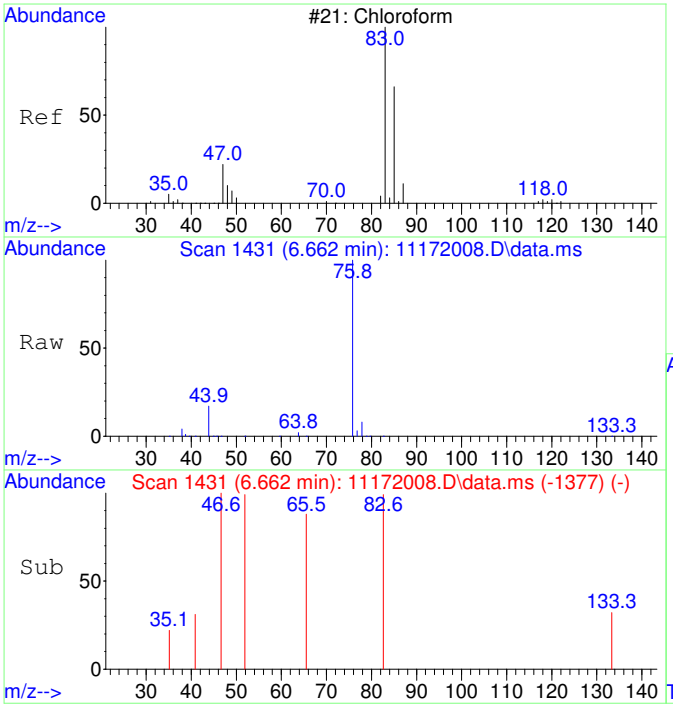


#29
cis-1,2-Dichloroethene SCAN
Concen: 45.48 ug/L
RT: 6.066 min Scan# 1364
Delta R.T. -0.007 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 784

Ion	Ratio	Lower	Upper
61	100		
96	0.0	39.9	99.9#
98	0.0	13.5	73.5#
64	1243.8	4.5	64.5#

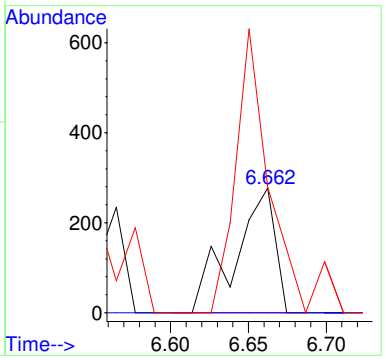


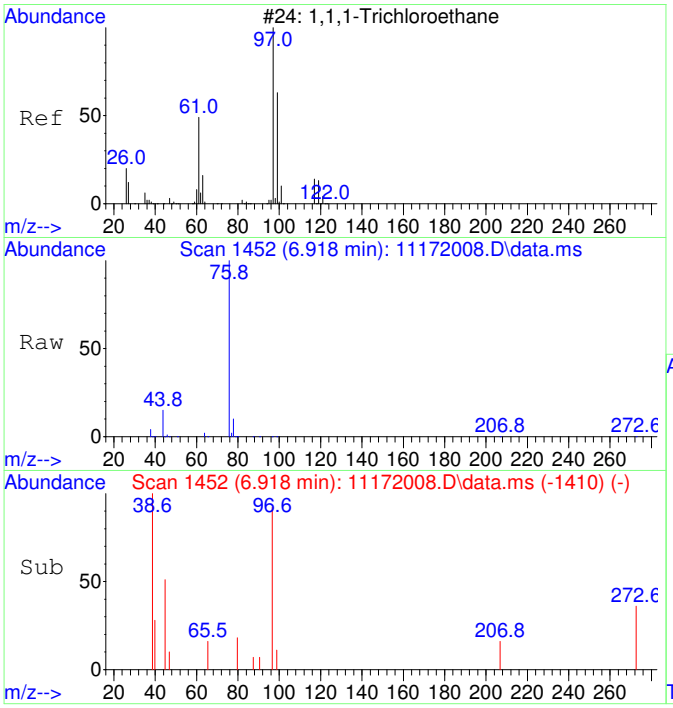


#30
Chloroform SCAN
Concen: 26.90 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 503

Ion	Ratio	Lower	Upper
83	100		
85	0.0	34.6	94.6#
47	198.0	0.0	53.4#

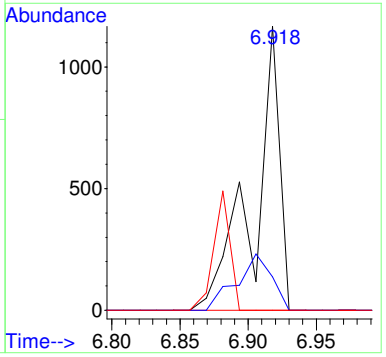


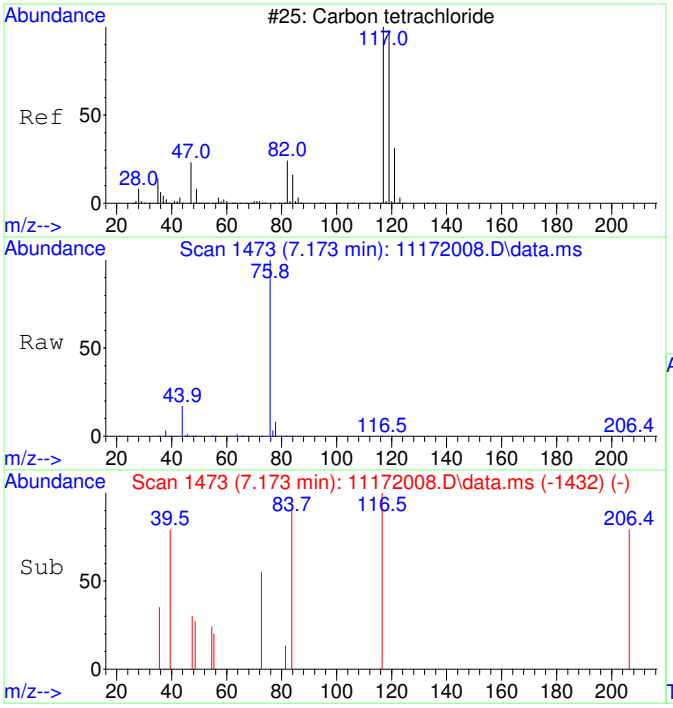


#31
1,1,1-Trichloroethane SCAN
Concen: 89.22 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 1520

Ion	Ratio	Lower	Upper
97	100		
99	27.4	43.6	103.6#
61	0.0	18.0	78.0#

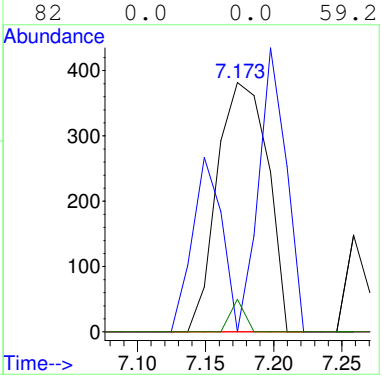


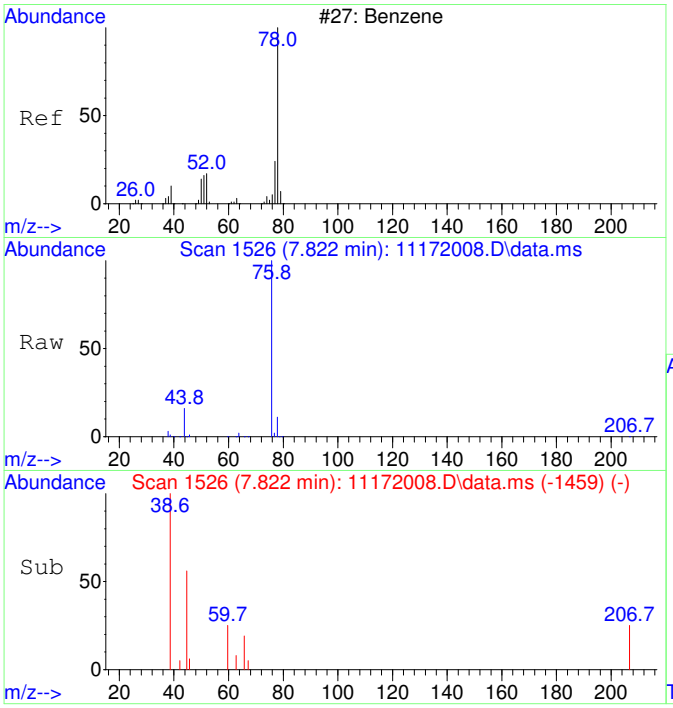


#32
Carbon tetrachloride SCAN
Concen: 55.48 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:117 Resp: 986

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

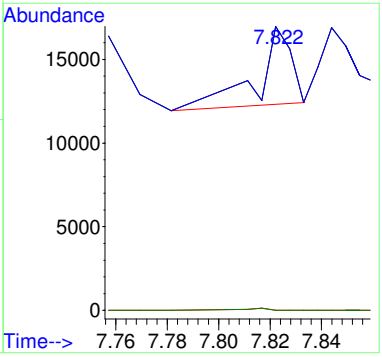


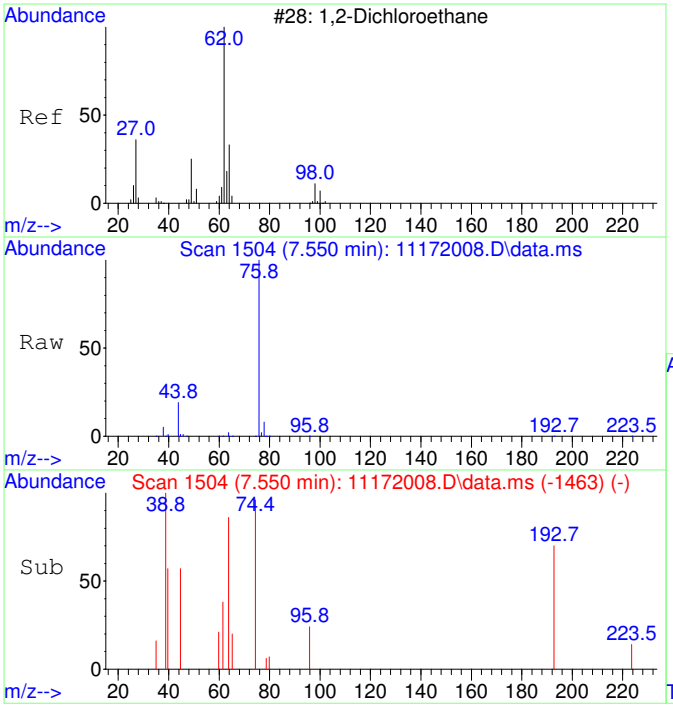


#33
Benzene SCAN
Concen: 137.18 ug/L
RT: 7.822 min Scan# 1526
Delta R.T. 0.320 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 78 Resp: 6435

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	2.0	0.0	47.9
51	2.0	0.0	44.1

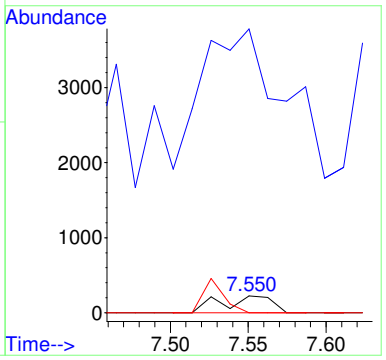


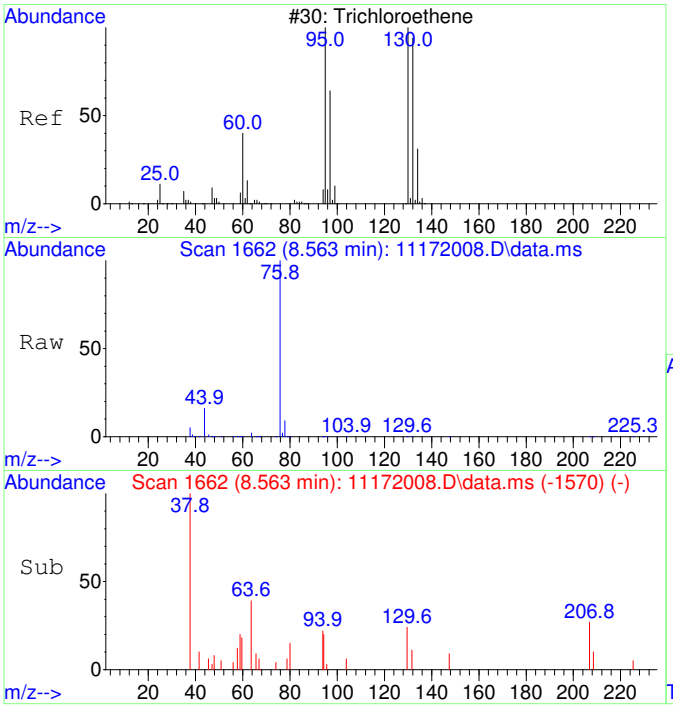


#34
1,2-Dichloroethane SCAN
Concen: 29.27 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 62 Resp: 507

Ion	Ratio	Lower	Upper
62	100		
64	1336.5	5.2	65.2#
49	0.0	3.9	63.9#

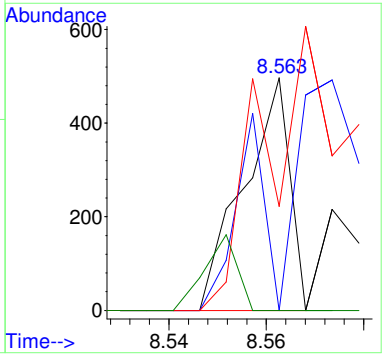


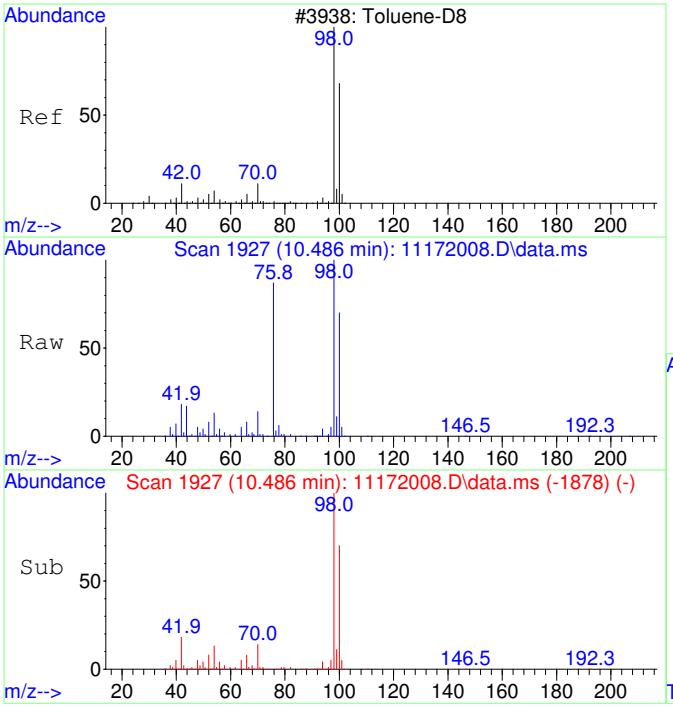


#35
Trichloroethene SCAN
Concen: 25.29 ug/L
RT: 8.563 min Scan# 1662
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:130 Resp: 326

Ion	Ratio	Lower	Upper
130	100		
95	0.0	60.5	120.5#
132	259.2	59.6	119.6#
97	23.3	28.2	88.2#

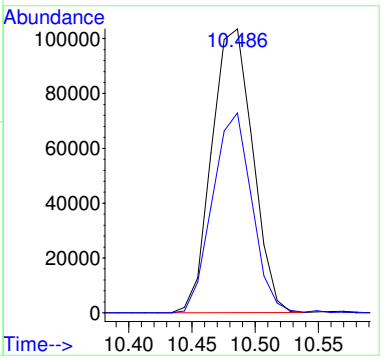


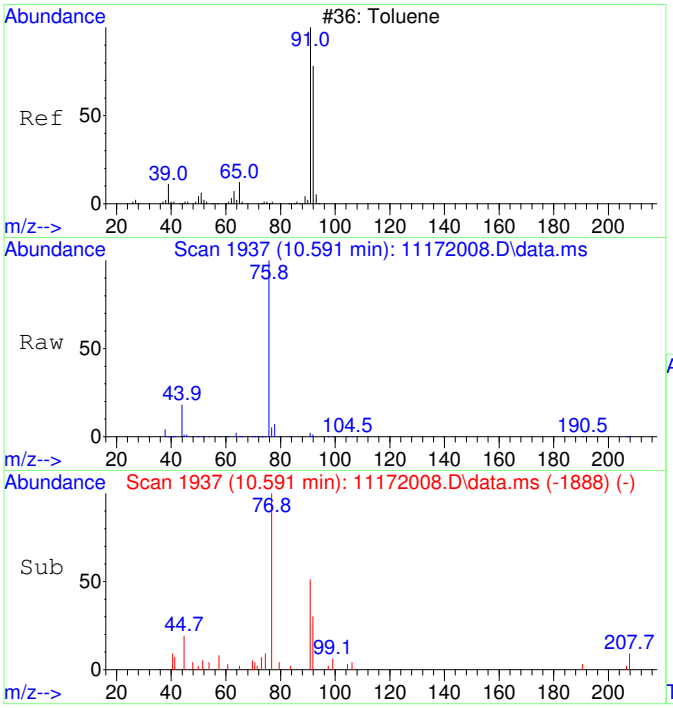


#36
Toluene-d8 SCAN
Concen: 4525.85 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 98 Resp: 234139

Ion	Ratio	Lower	Upper
98	100		
100	68.0	40.0	100.0

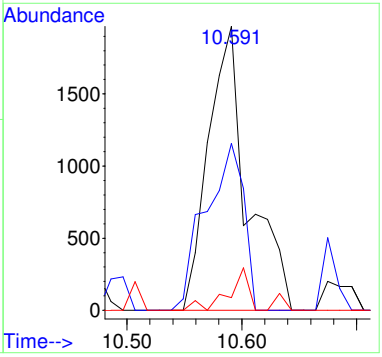


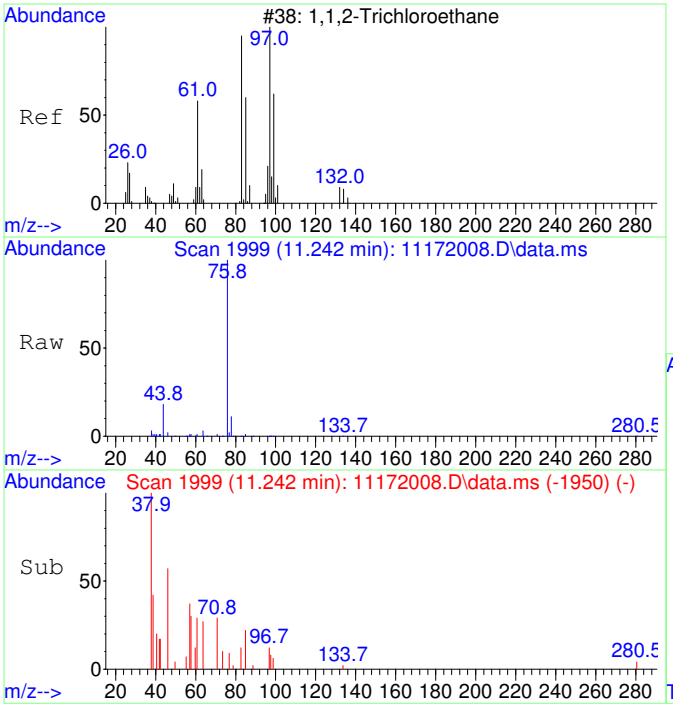


#37
Toluene SCAN
Concen: 70.94 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 4700

Ion	Ratio	Lower	Upper
91	100		
92	57.1	28.3	88.3
65	7.5	0.0	41.0

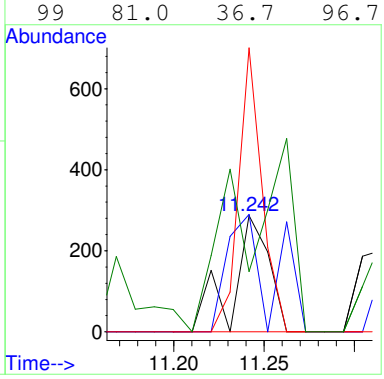


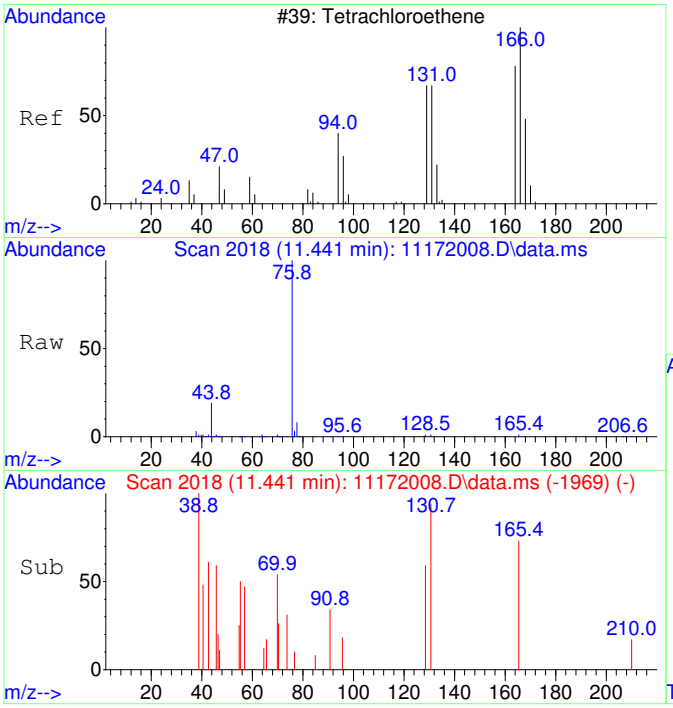


#38
1,1,2-Trichloroethane SCAN
Concen: 26.90 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 400

Ion	Ratio	Lower	Upper
97	100		
83	125.5	57.7	117.7#
61	158.5	32.1	92.1#
99	81.0	36.7	96.7

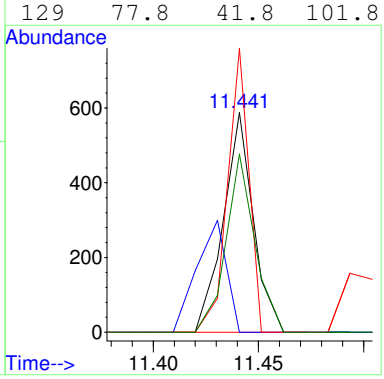


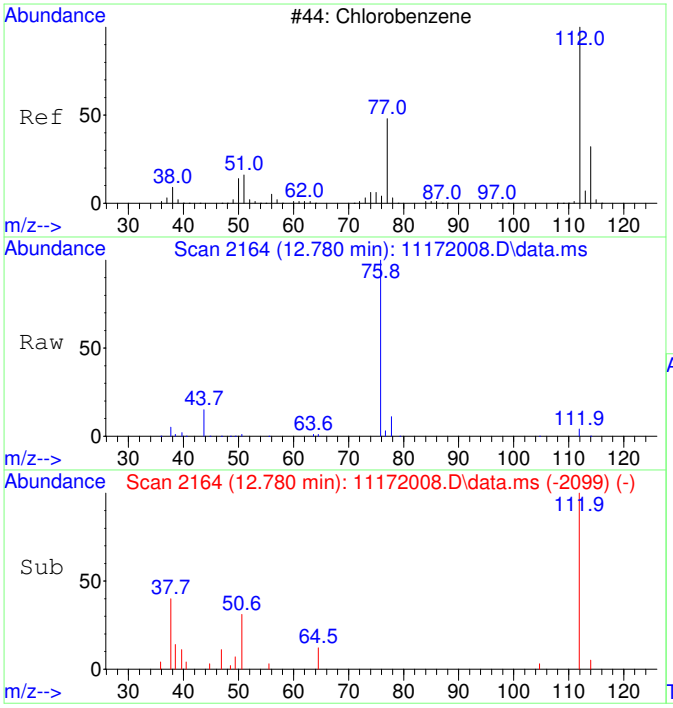


#39
Tetrachloroethene SCAN
Concen: 36.56 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:166 Resp: 582

Ion	Ratio	Lower	Upper
166	100		
164	50.2	50.9	110.9#
131	92.1	38.7	98.7
129	77.8	41.8	101.8

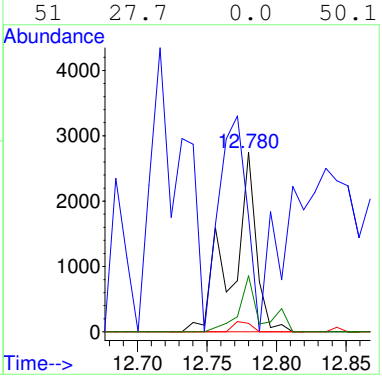


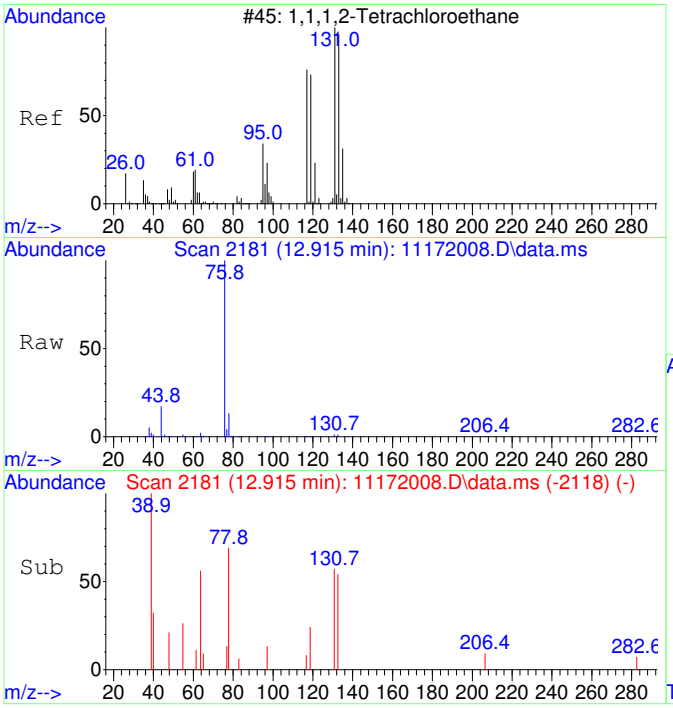


#40
Chlorobenzene SCAN
Concen: 72.83 ug/L
RT: 12.780 min Scan# 2164
Delta R.T. 0.016 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:112 Resp: 3297

Ion	Ratio	Lower	Upper
112	100		
77	139.8	28.2	88.2#
114	4.2	2.3	62.3
51	27.7	0.0	50.1

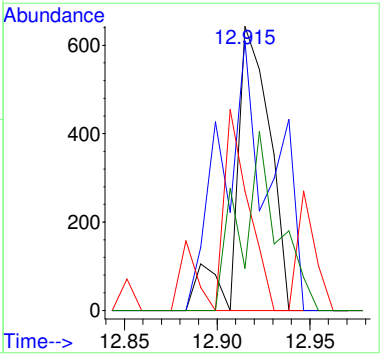


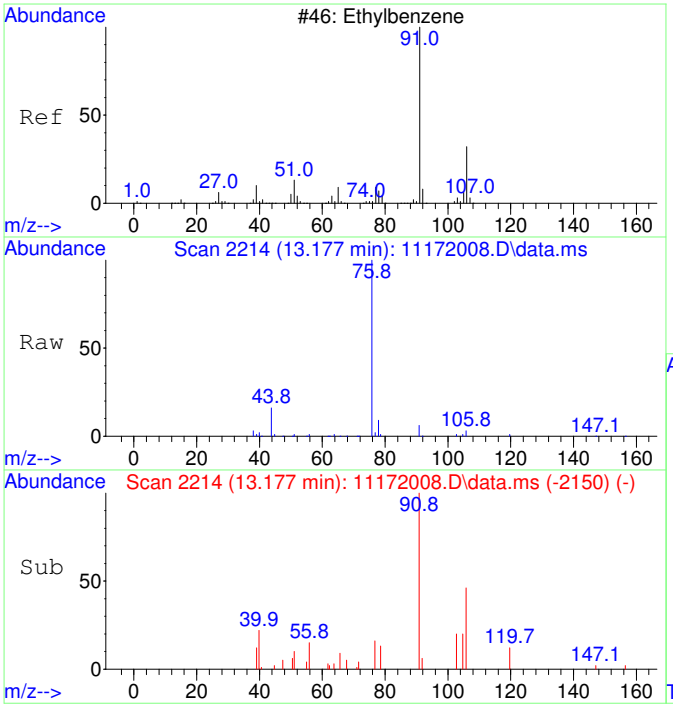


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 49.12 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:131 Resp: 823

Ion	Ratio	Lower	Upper
131	100		
133	136.6	66.9	126.9#
119	62.3	40.4	100.4
117	68.4	35.1	95.1

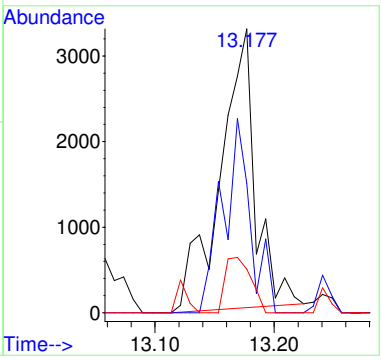


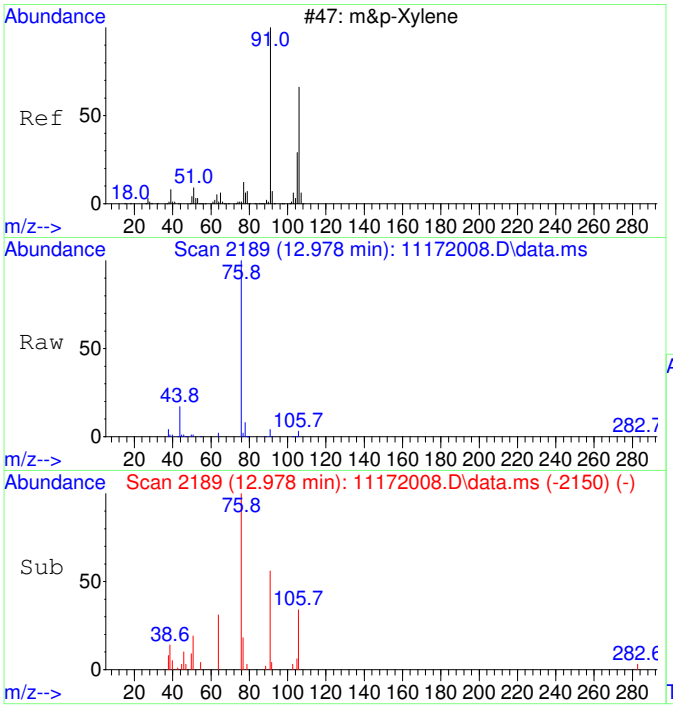


#42
Ethylbenzene SCAN
Concen: 55.48 ug/L
RT: 13.177 min Scan# 2214
Delta R.T. 0.008 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 6696

Ion	Ratio	Lower	Upper
91	100		
106	55.6	23.1	83.1
51	14.6	0.0	40.1

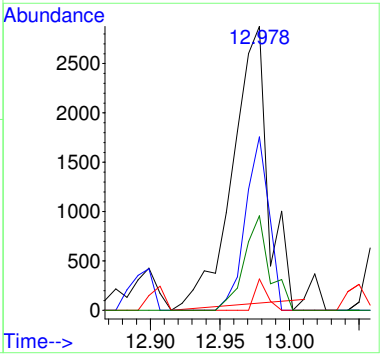


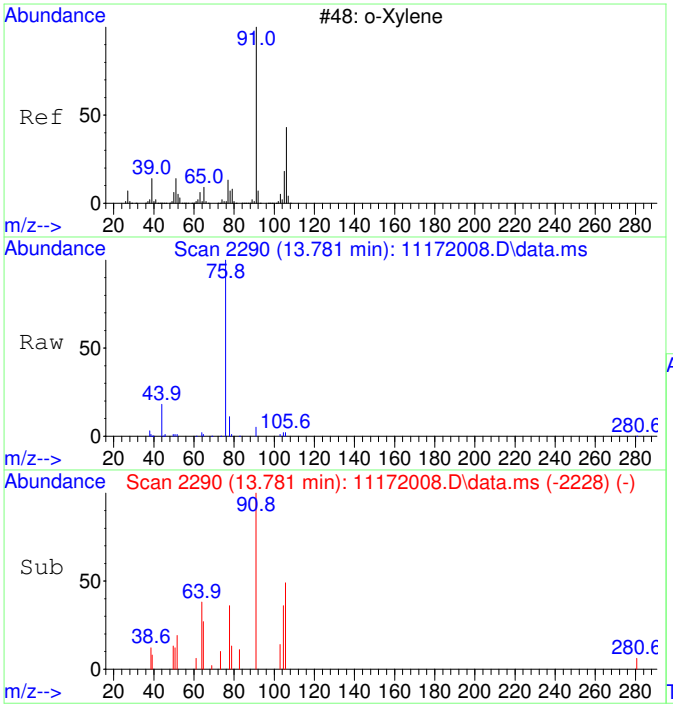


#43
m&p-Xylene SCAN
Concen: 40.39 ug/L
RT: 12.978 min Scan# 2189
Delta R.T. -0.191 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 4875

Ion	Ratio	Lower	Upper
91	100		
106	42.5	23.1	83.1
105	4.0	0.0	54.7
51	25.1	0.0	40.1

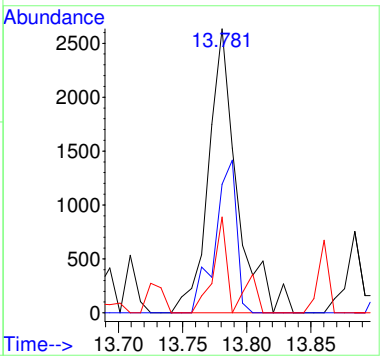


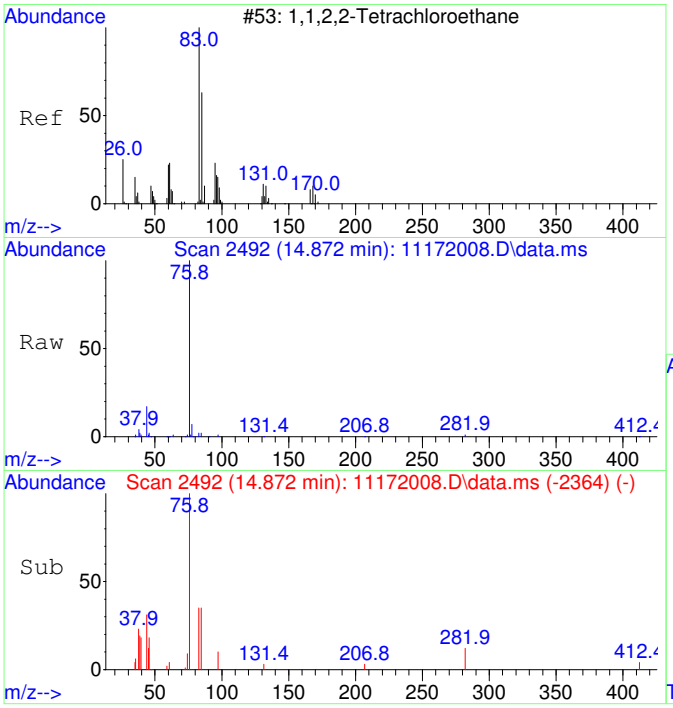


#44
o-Xylene SCAN
Concen: 63.04 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 4073

Ion	Ratio	Lower	Upper
91	100		
106	40.4	18.0	78.0
105	21.8	0.0	56.6

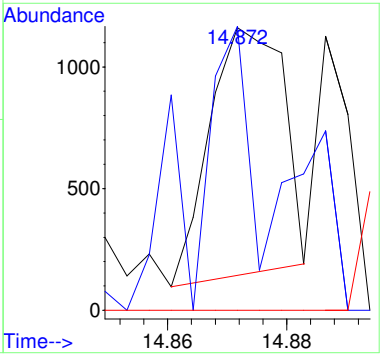


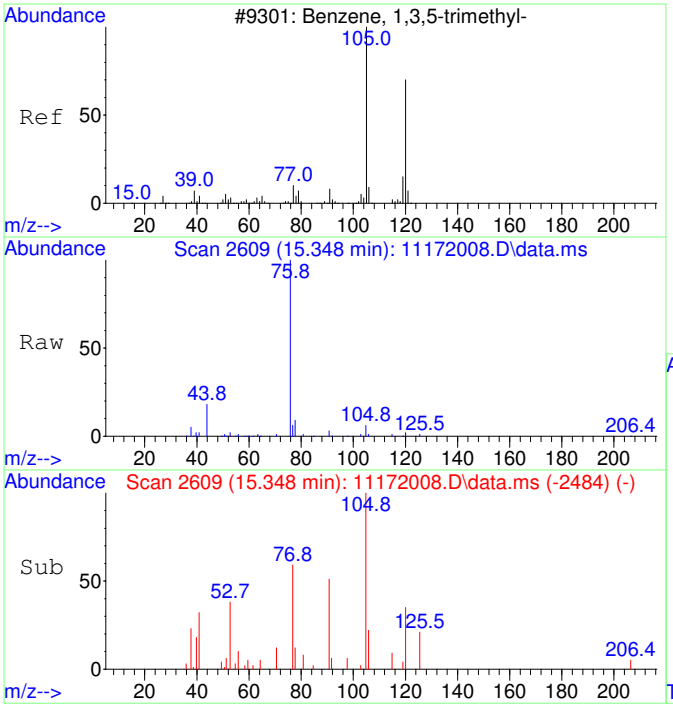


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 27.74 ug/L
RT: 14.872 min Scan# 2492
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 874

Ion	Ratio	Lower	Upper
83	100		
85	133.1	35.9	95.9#
95	0.0	0.0	47.4

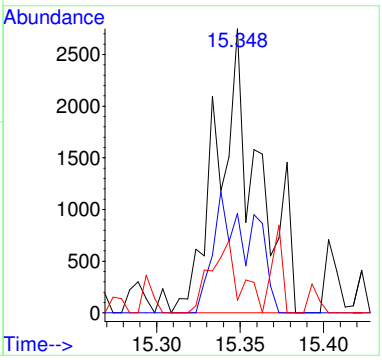


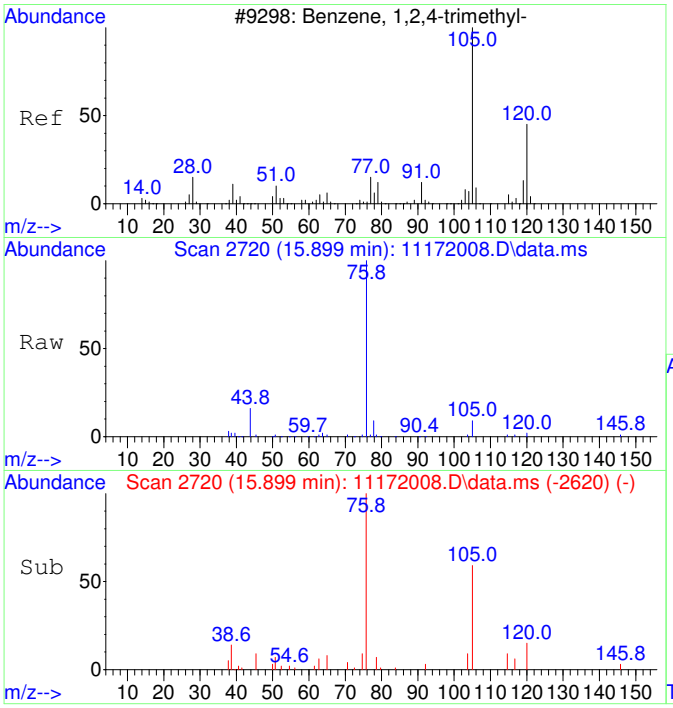


#46
1,3,5-Trimethylbenzene SCAN
Concen: 68.69 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 4677

Ion	Ratio	Lower	Upper
105	100		
120	39.6	18.3	78.3
119	18.2	0.0	43.1

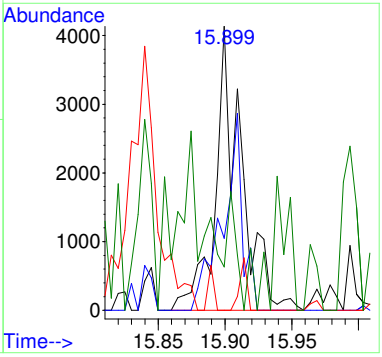


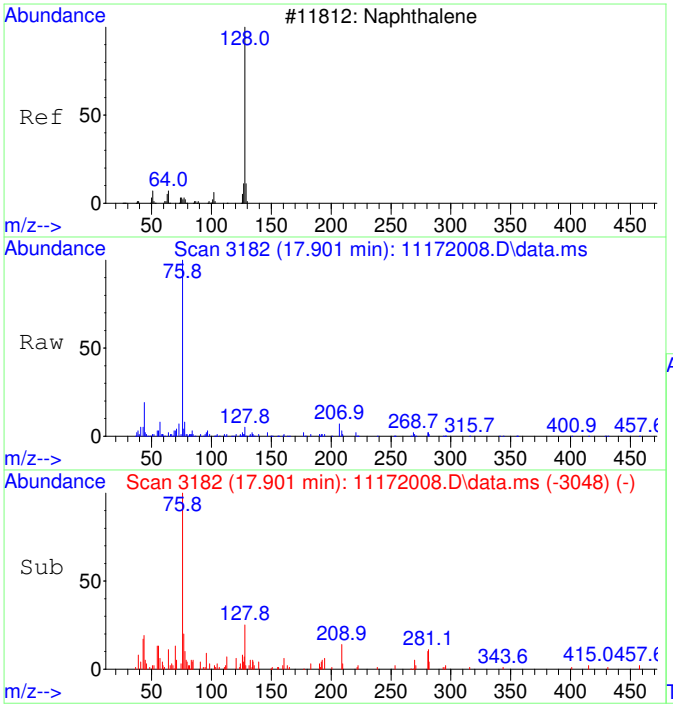


#47
1,2,4-Trimethylbenzene SCAN
Concen: 80.53 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.005 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 5611

Ion	Ratio	Lower	Upper
105	100		
120	53.3	16.9	76.9
119	5.1	0.0	41.9
77	4.8	0.0	42.3

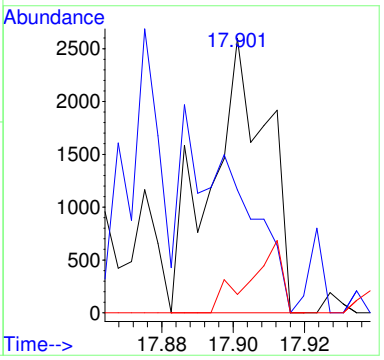




#48
Naphthalene SCAN
Concen: 27.23 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. -0.004 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:128 Resp: 2871

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	44.0
129	14.9	0.0	40.8



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172008.D
Acq On : 17 Nov 2020 10:40
InstName : AG5975C
Operator : TD
Sample : B20K062-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

M.I. Performed By:
TD at 8:50 am, Nov 18, 2020

M.I. Approved By:
ZR at 3:36 pm, Nov 23, 2020

Quant Time: Nov 17 10:58:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

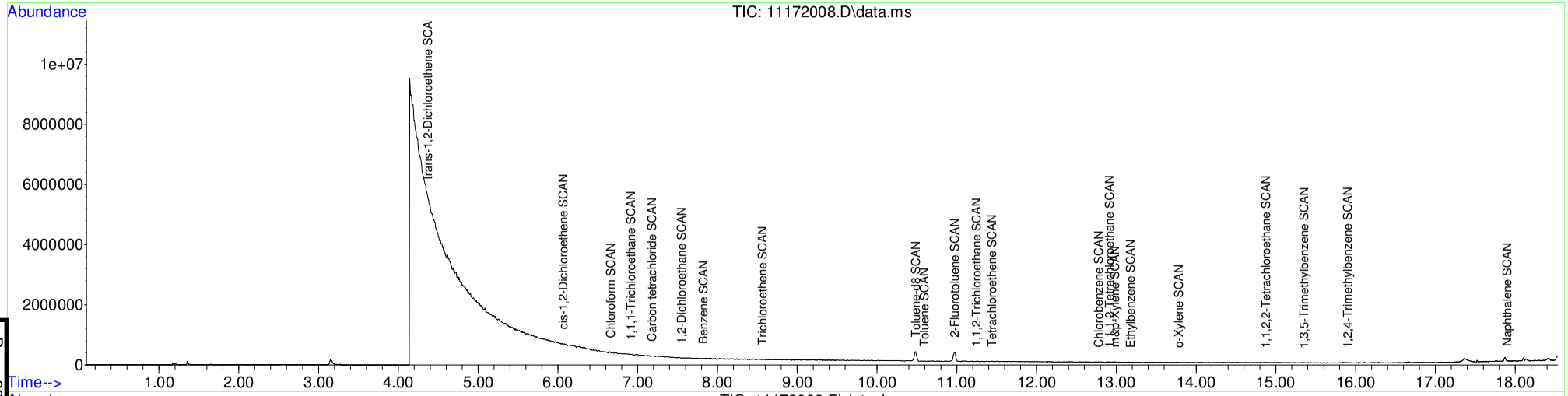
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	542657	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	468484	4410.05	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.20%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	809m	37.33	ug/L	
3] trans-1,2-Dichloroethene	4.336	61	996	39.78	ug/L #	45
4] 1,1-Dichloroethane	5.059	63	1293	41.49	ug/L	46
5] cis-1,2-Dichloroethene	6.074	61	1337	40.64	ug/L	98
6] Chloroform	6.639	83	1450	43.06	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1549	42.36	ug/L	98
8] Carbon tetrachloride	7.175	117	1433	41.64	ug/L	100
9] Benzene	7.503	78	9310	100.98	ug/L #	28
10] 1,2-Dichloroethane	7.540	62	1407	42.75	ug/L #	1
11] Trichloroethene	8.564	130	1338	48.20	ug/L	94
13] Toluene	10.582	91	6794	50.16	ug/L	98
14] 1,1,2-Trichloroethane	11.232	97	1379	46.73	ug/L	97
15] Tetrachloroethene	11.432	166	1841	46.97	ug/L	95
16] Chlorobenzene	12.765	112	4776	49.25	ug/L	79
17] 1,1,1,2-Tetrachloroethane	12.916	131	1718	49.44	ug/L	97
18] Ethylbenzene	12.972	91	8848	53.67	ug/L	95
19] m&p-Xylene	13.162	91	13810	107.19	ug/L	93
20] o-Xylene	13.782	91	6602	47.96	ug/L	98
21] 1,1,2,2-Tetrachloroethane	14.880	83	2879	47.19	ug/L	97
22] 1,3,5-Trimethylbenzene	15.345	105	7546	51.50	ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	9137	60.04	ug/L	87
25) 2-Fluorotoluene SCAN	10.969	109	265508	5019.15	ug/L	98
27) trans-1,2-Dichloroethe...	4.361	61	1012	72.80	ug/L #	34
29) cis-1,2-Dichloroethene...	6.066	61	784	45.48	ug/L #	1
30) Chloroform SCAN	6.662	83	503	26.90	ug/L #	1
31) 1,1,1-Trichloroethane ...	6.918	97	1520	89.22	ug/L #	39
32) Carbon tetrachloride SCAN	7.173	117	986	55.48	ug/L #	15
33) Benzene SCAN	7.822	78	6435	137.18	ug/L	92
34) 1,2-Dichloroethane SCAN	7.550	62	507	29.27	ug/L #	1
35) Trichloroethene SCAN	8.563	130	326	25.29	ug/L #	1
36) Toluene-d8 SCAN	10.486	98	234139	4525.85	ug/L	98
37) Toluene SCAN	10.591	91	4700	70.94	ug/L	97
38) 1,1,2-Trichloroethane ...	11.242	97	400	26.90	ug/L #	42
39) Tetrachloroethene SCAN	11.441	166	582	36.56	ug/L #	76
40) Chlorobenzene SCAN	12.780	112	3297	72.83	ug/L #	25
41) 1,1,1,2-Tetrachloroeth...	12.915	131	823	49.12	ug/L #	79
42) Ethylbenzene SCAN	13.177	91	6696	55.48	ug/L	95
43) m&p-Xylene SCAN	12.978	91	4875	40.39	ug/L	75
44) o-Xylene SCAN	13.781	91	4073	63.04	ug/L	89
45) 1,1,2,2-Tetrachloroeth...	14.872	83	874	27.74	ug/L #	25
46) 1,3,5-Trimethylbenzene...	15.348	105	4677	68.69	ug/L	87
47) 1,2,4-Trimethylbenzene...	15.899	105	5611	80.53	ug/L	87
48) Naphthalene SCAN	17.901	128	2871	27.23	ug/L #	76

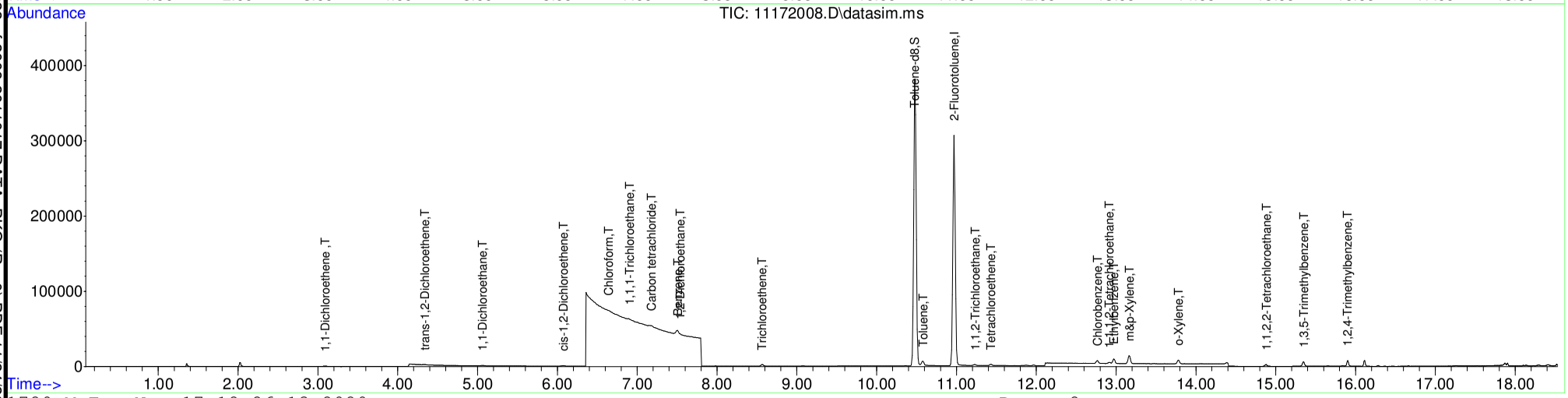
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172008.D
Acq On : 17 Nov 2020 10:40
InstName : AG5975C
Operator : TD
Sample : B20K062-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 17 10:58:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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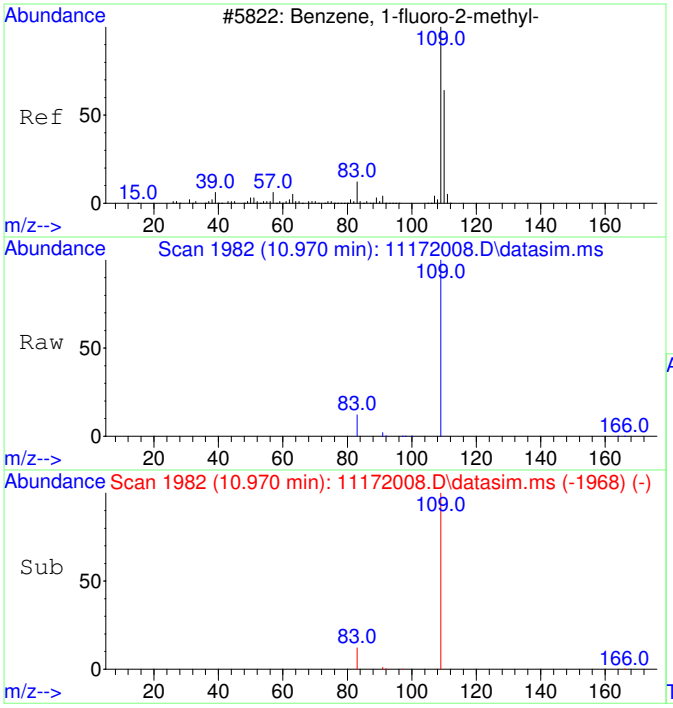
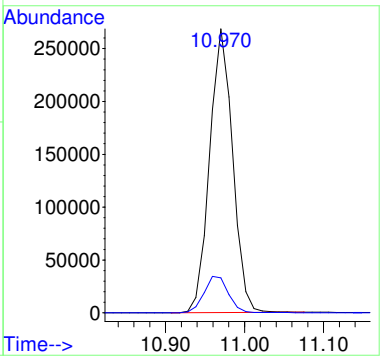
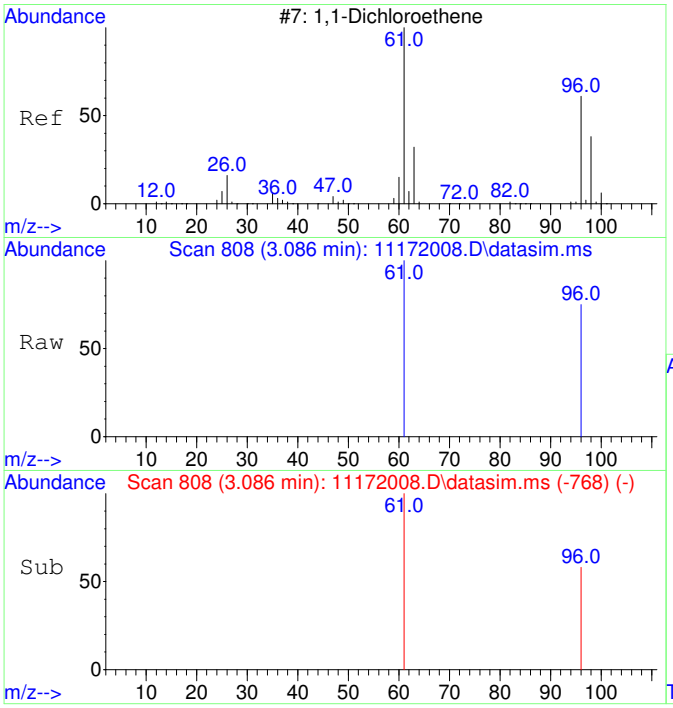


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:109 Resp: 542657

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

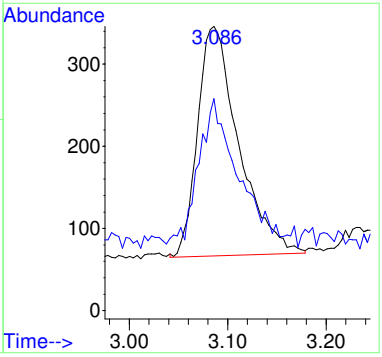


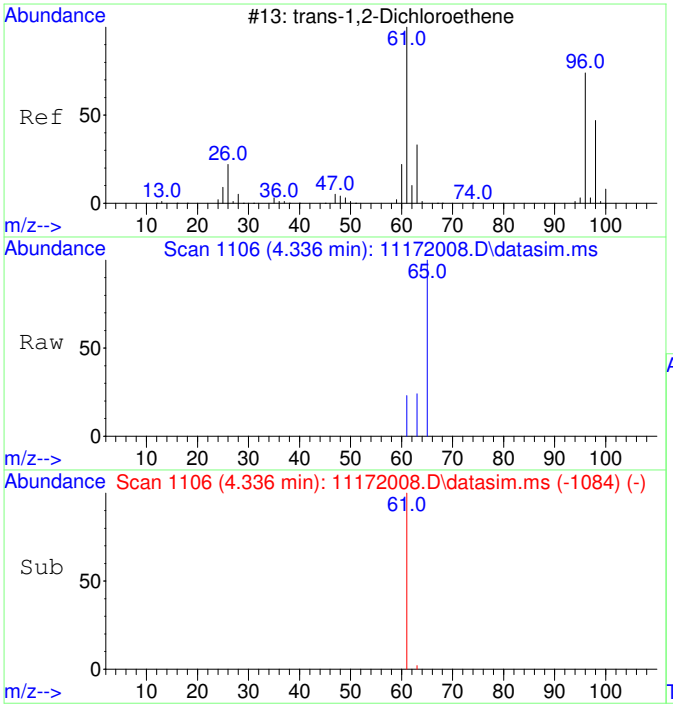


#2
1,1-Dichloroethene
Concen: 37.33 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 809

Ion	Ratio	Lower	Upper
61	100		
96	89.0	37.2	97.2

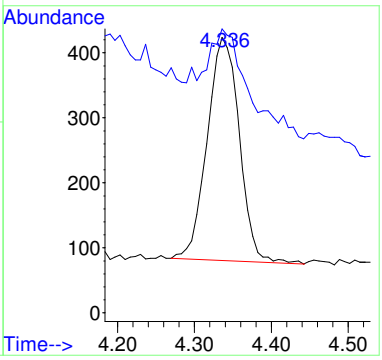


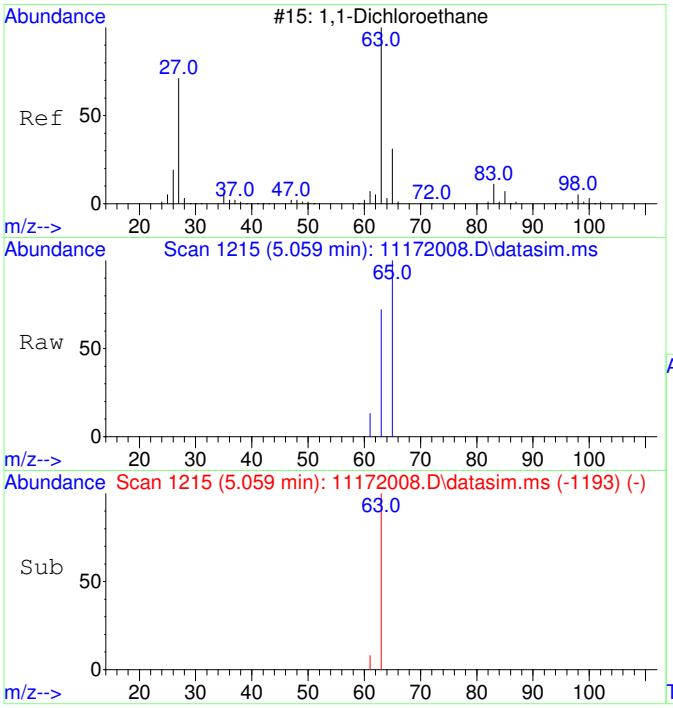


#3
trans-1,2-Dichloroethene
Concen: 39.78 ug/L
RT: 4.336 min Scan# 1106
Delta R.T. -0.007 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 996

Ion	Ratio	Lower	Upper
61	100		
63	63.3	2.4	62.4#

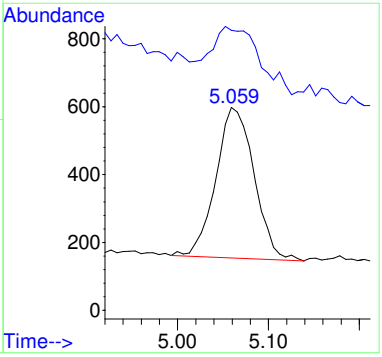


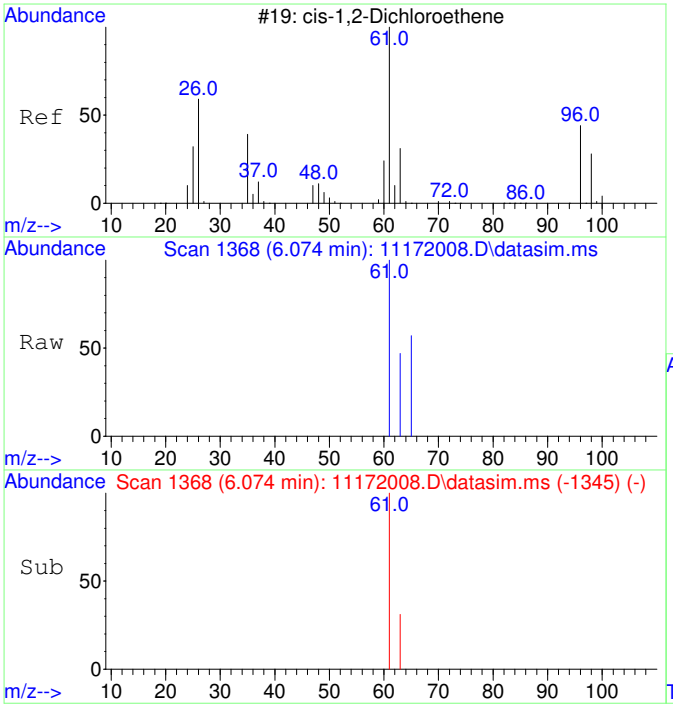


#4
1,1-Dichloroethane
Concen: 41.49 ug/L
RT: 5.059 min Scan# 1215
Delta R.T. -0.007 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 63 Resp: 1293

Ion	Ratio	Lower	Upper
63	100		
65	61.8	1.8	61.8

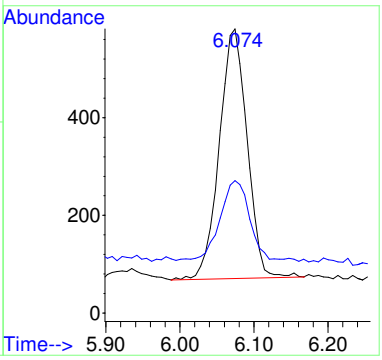


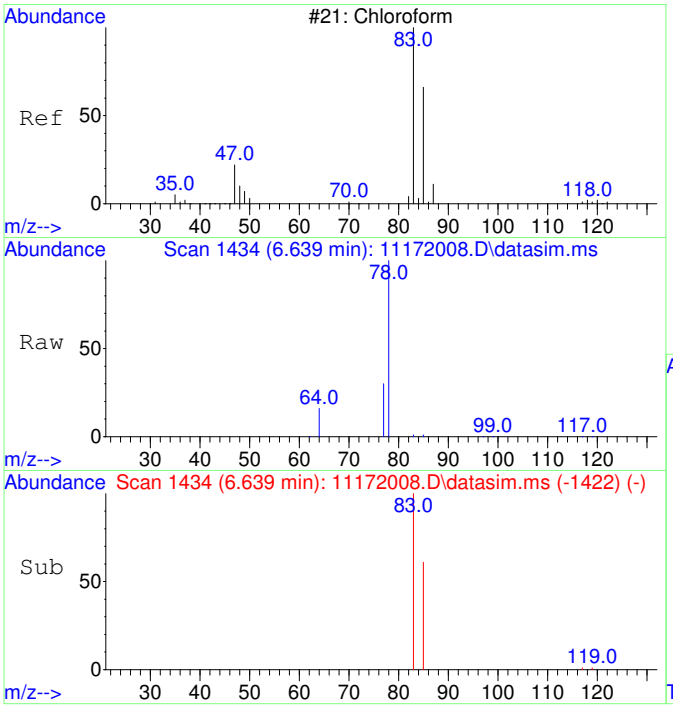


#5
cis-1,2-Dichloroethene
Concen: 40.64 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 1337

Ion	Ratio	Lower	Upper
61	100		
63	33.7	2.5	62.5

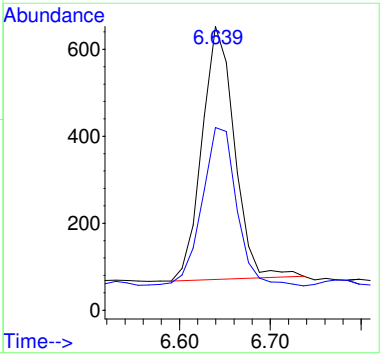


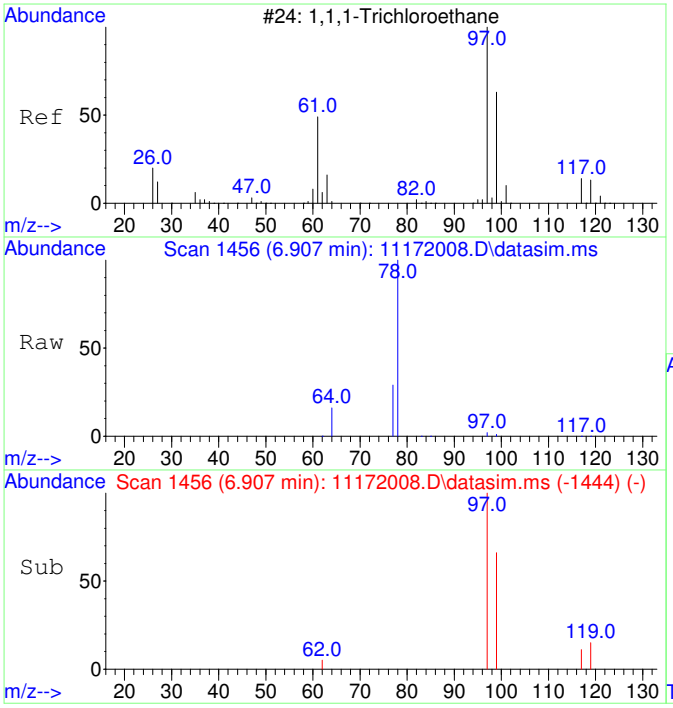


#6
Chloroform
Concen: 43.06 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 1450

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.1	95.1

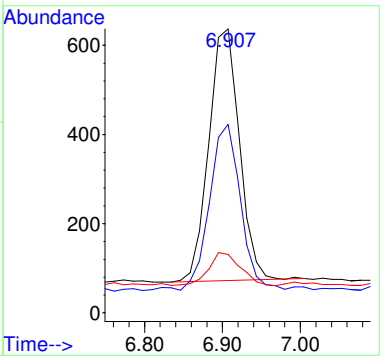


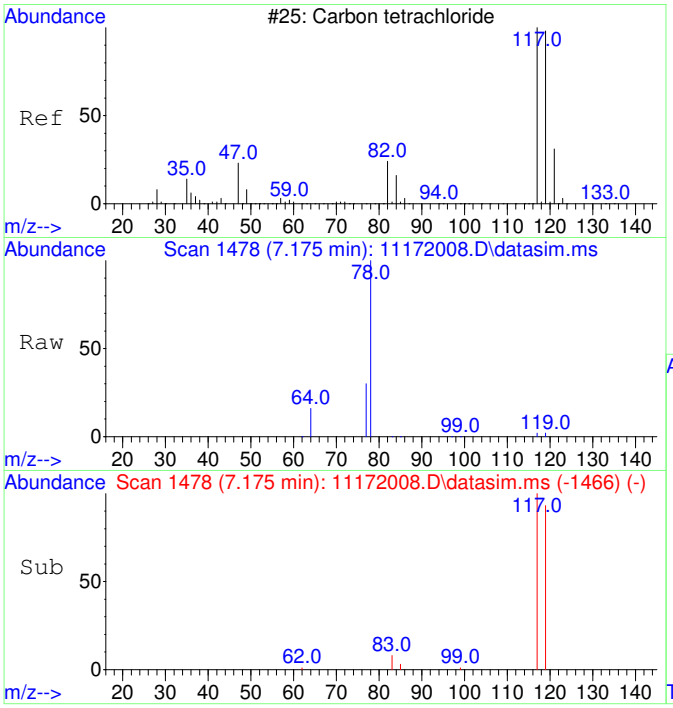


#7
1,1,1-Trichloroethane
Concen: 42.36 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 1549

Ion	Ratio	Lower	Upper
97	100		
99	66.4	34.6	94.6
117	13.8	0.0	43.2

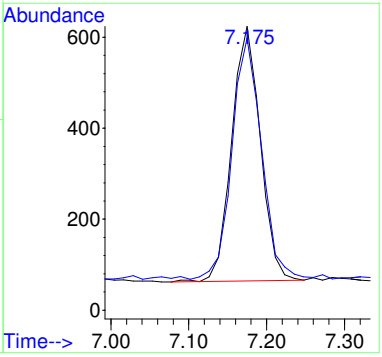


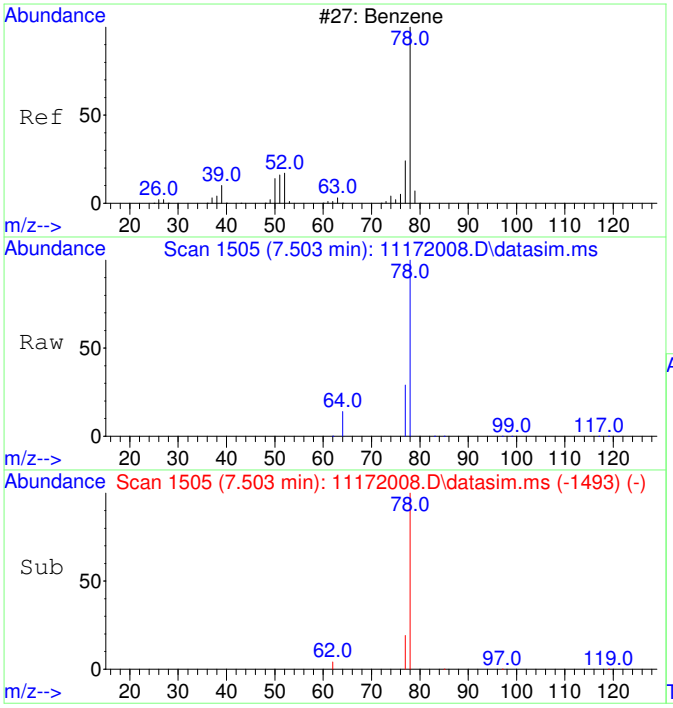


#8
Carbon tetrachloride
Concen: 41.64 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:117 Resp: 1433

Ion	Ratio	Lower	Upper
117	100		
119	96.2	66.4	126.4

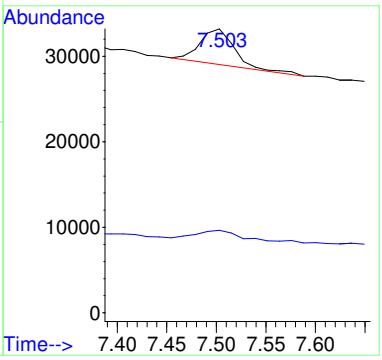


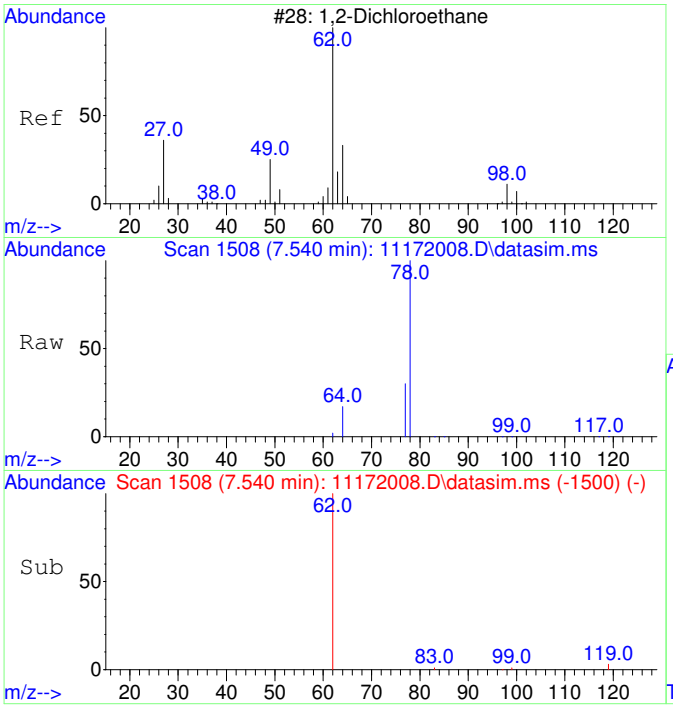


#9
Benzene
Concen: 100.98 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 78 Resp: 9310

Ion	Ratio	Lower	Upper
78	100		
77	58.3	0.0	53.2#

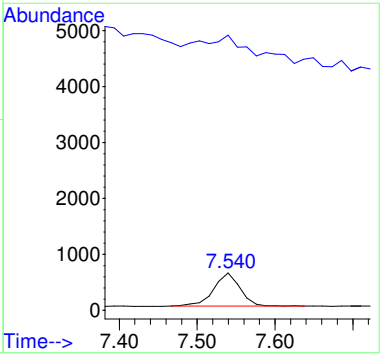


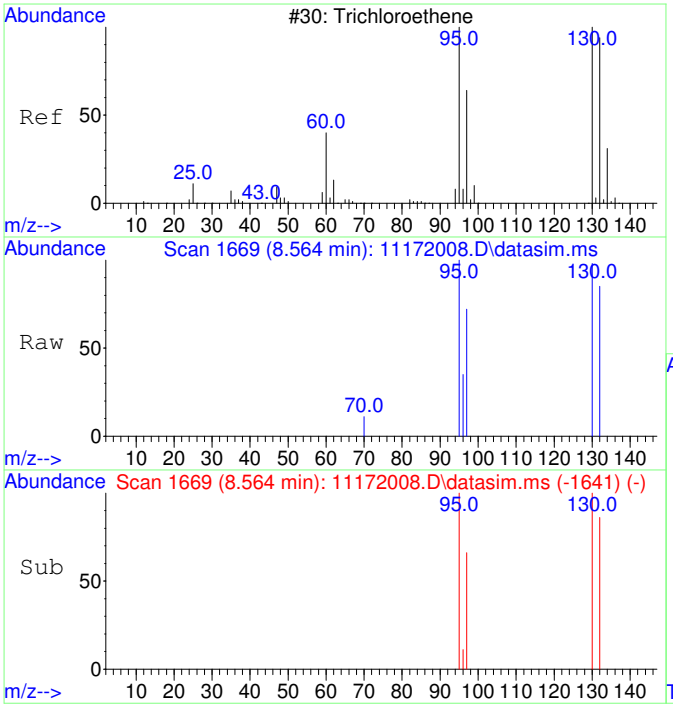


#10
1,2-Dichloroethane
Concen: 42.75 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 62 Resp: 1407

Ion	Ratio	Lower	Upper
62	100		
64	170.0	2.3	62.3#

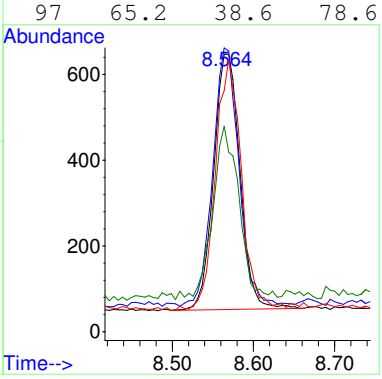


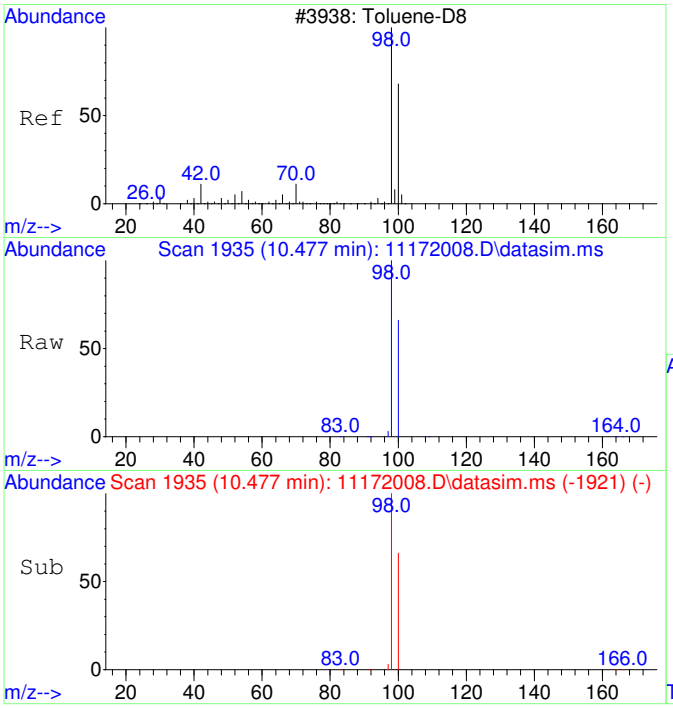


#11
Trichloroethene
Concen: 48.20 ug/L
RT: 8.564 min Scan# 1669
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:130 Resp: 1338

Ion	Ratio	Lower	Upper
130	100		
95	99.1	60.7	120.7
132	94.5	76.0	116.0
97	65.2	38.6	78.6

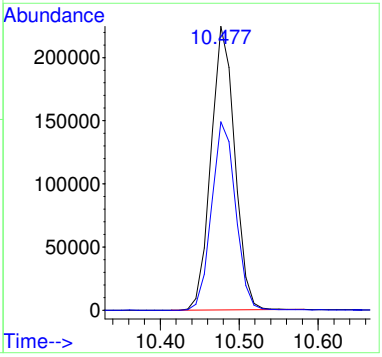


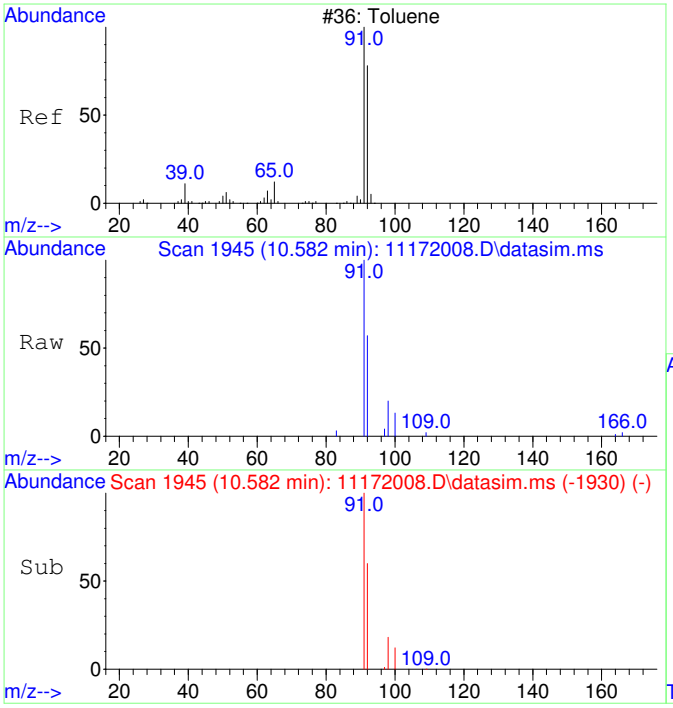


#12
Toluene-d8
Concen: 4410.05 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 98 Resp: 468484

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.1	97.1

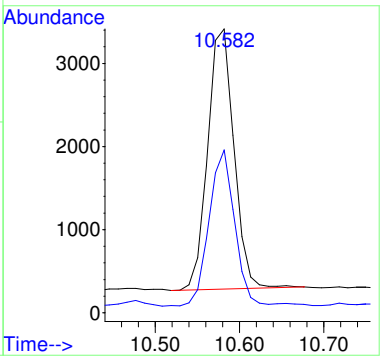


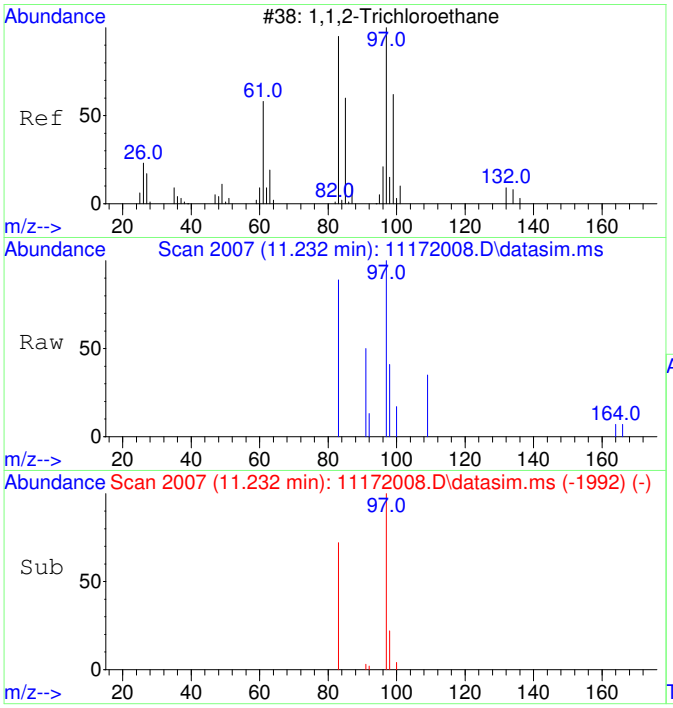


#13
Toluene
Concen: 50.16 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 6794

Ion	Ratio	Lower	Upper
91	100		
92	58.2	29.9	89.9

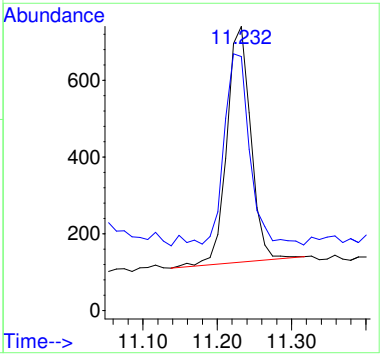


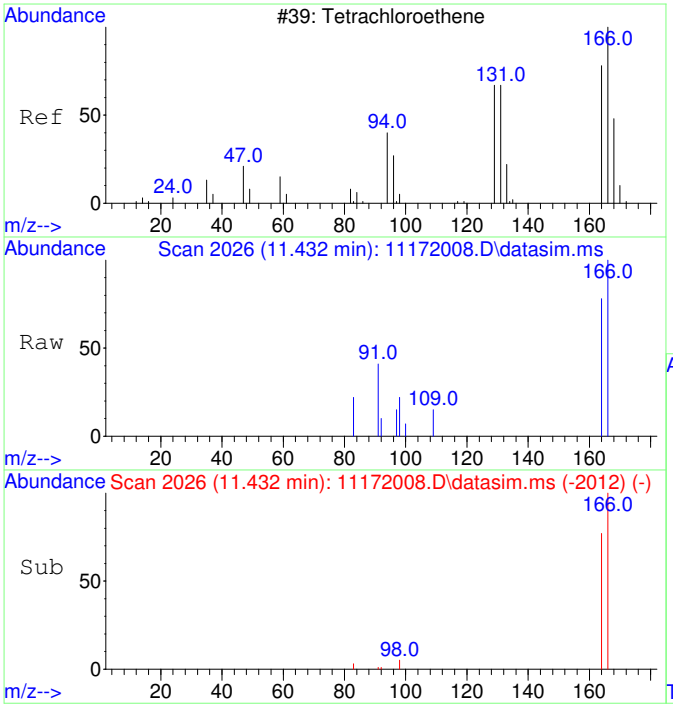


#14
1,1,2-Trichloroethane
Concen: 46.73 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 1379

Ion	Ratio	Lower	Upper
97	100		
83	84.3	51.2	111.2

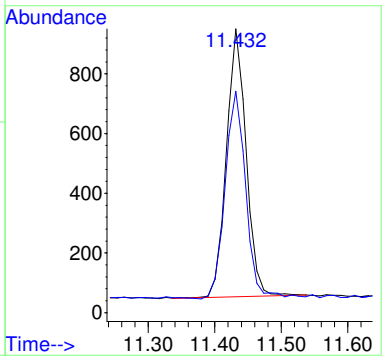


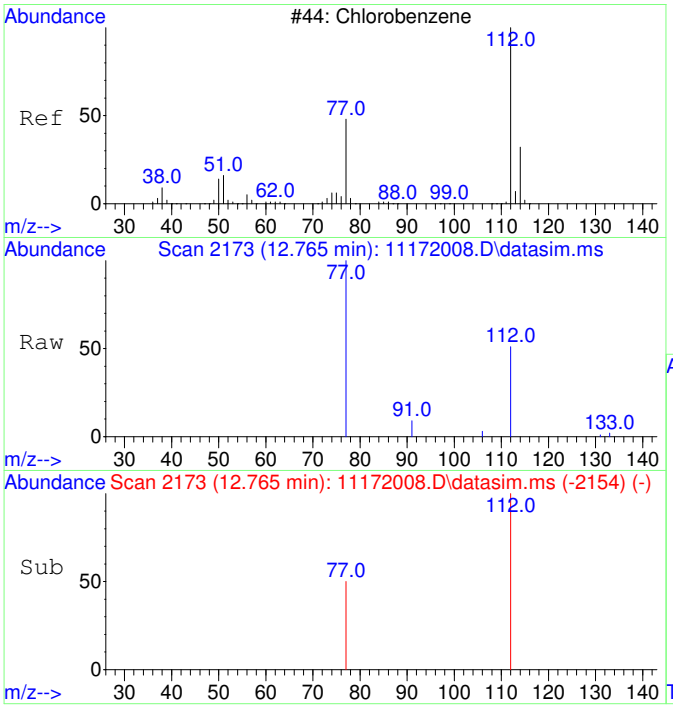


#15
Tetrachloroethene
Concen: 46.97 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:166 Resp: 1841

Ion	Ratio	Lower	Upper
166	100		
164	82.1	47.8	107.8

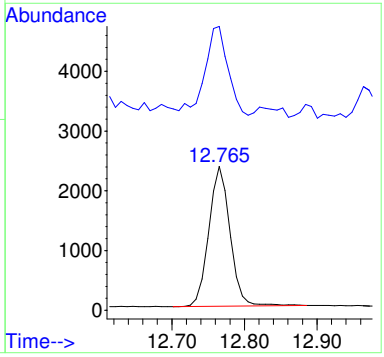


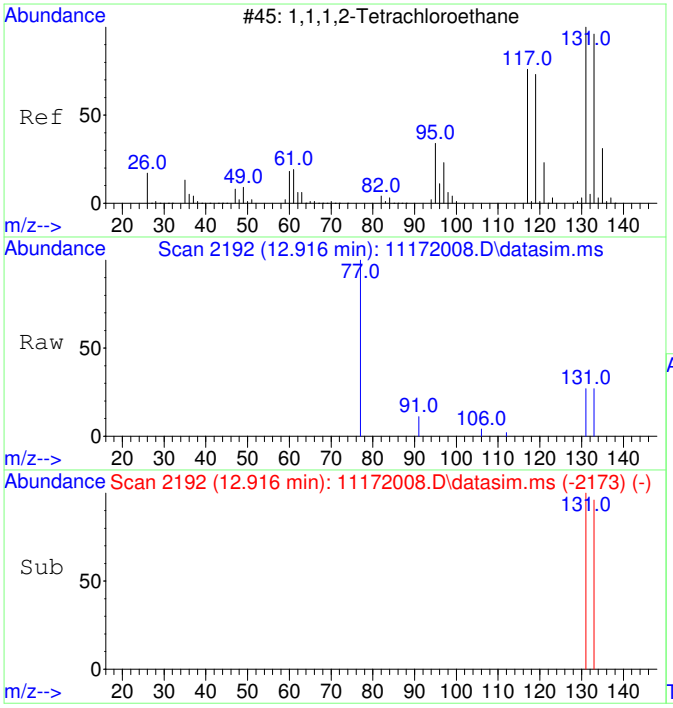


#16
Chlorobenzene
Concen: 49.25 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:112 Resp: 4776

Ion	Ratio	Lower	Upper
112	100		
77	68.7	23.6	83.6

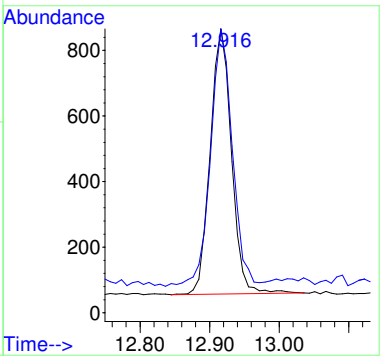


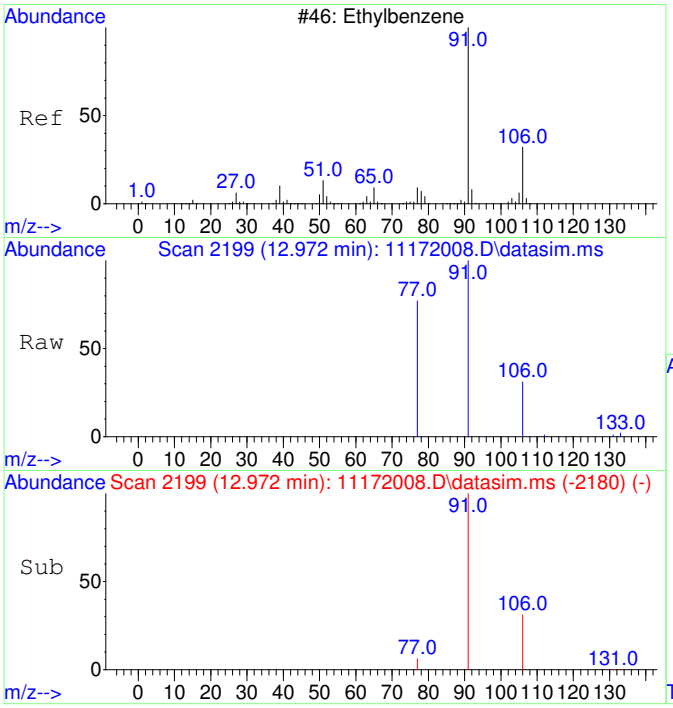


#17
1,1,1,2-Tetrachloroethane
Concen: 49.44 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:131 Resp: 1718

Ion	Ratio	Lower	Upper
131	100		
133	99.6	66.3	126.3

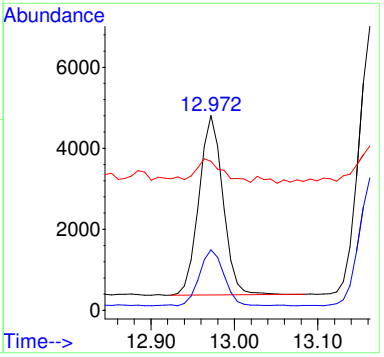


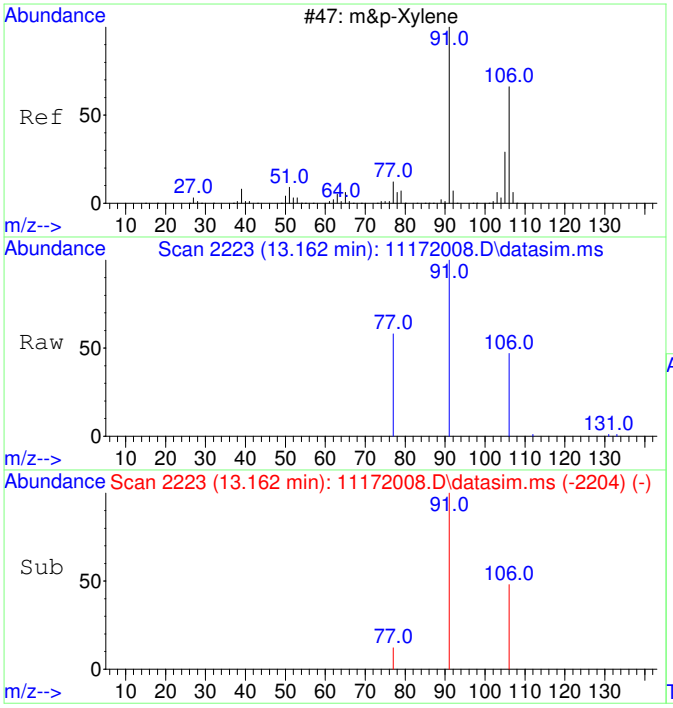


#18
Ethylbenzene
Concen: 53.67 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 8848

Ion	Ratio	Lower	Upper
91	100		
106	31.7	3.0	63.0
77	14.7	0.0	38.2

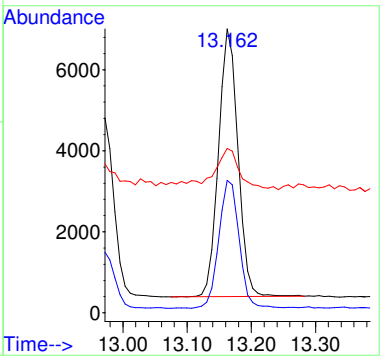


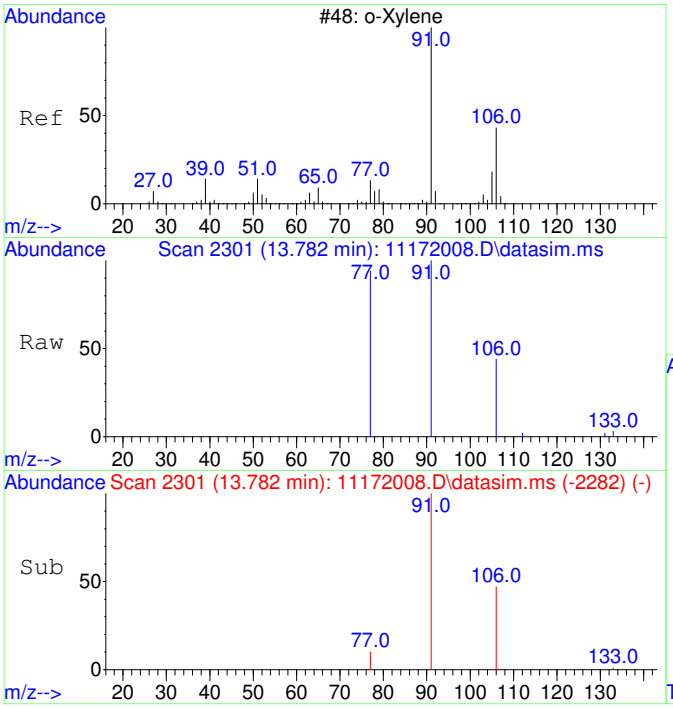


#19
m&p-Xylene
Concen: 107.19 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 13810

Ion	Ratio	Lower	Upper
91	100		
106	49.7	22.2	82.2
77	20.8	0.0	42.4

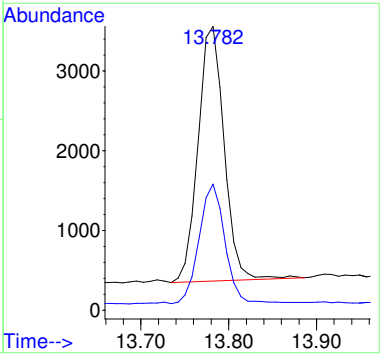


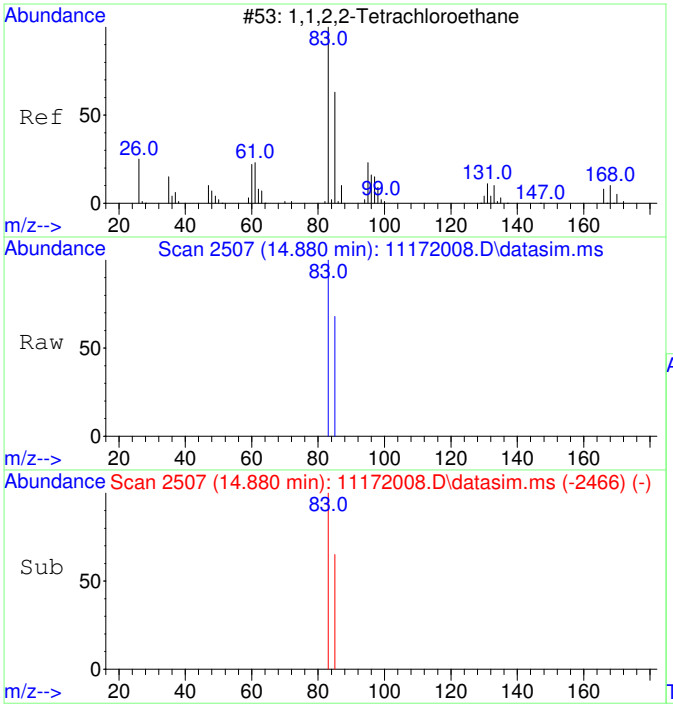


#20
o-Xylene
Concen: 47.96 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 6602

Ion	Ratio	Lower	Upper
91	100		
106	47.6	19.2	79.2

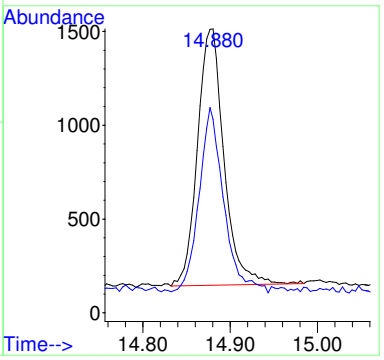


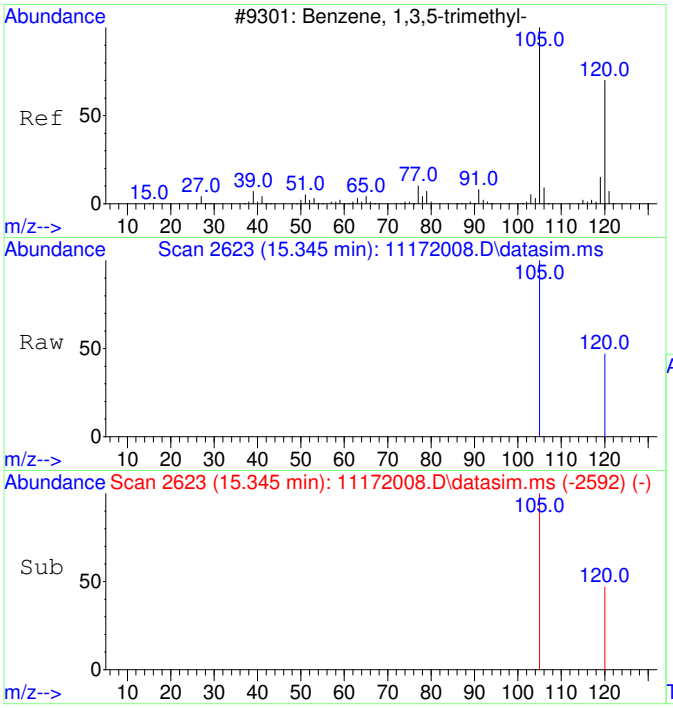


#21
1,1,2,2-Tetrachloroethane
Concen: 47.19 ug/L
RT: 14.880 min Scan# 2507
Delta R.T. 0.004 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 2879

Ion	Ratio	Lower	Upper
83	100		
85	67.1	34.8	94.8

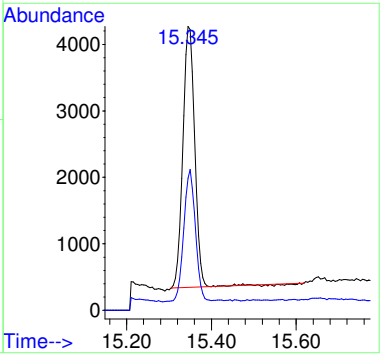


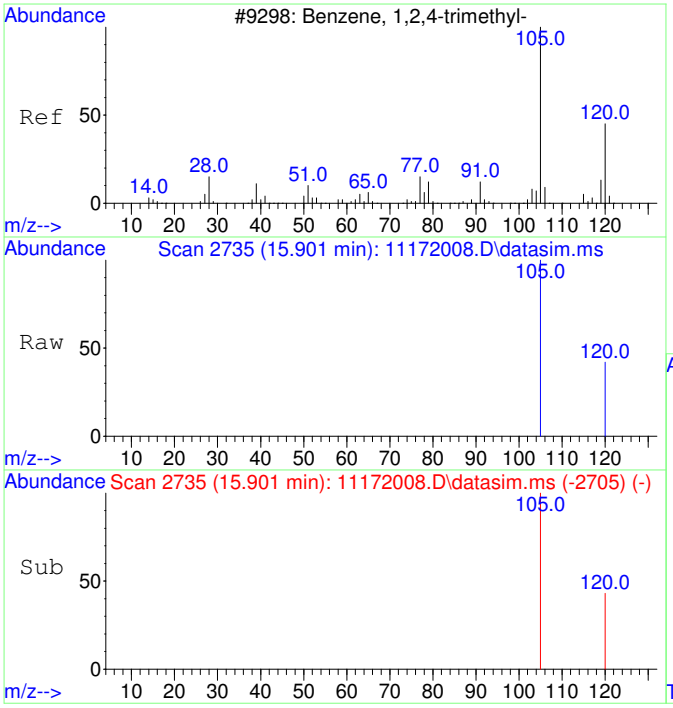


#22
1,3,5-Trimethylbenzene
Concen: 51.50 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 7546

Ion	Ratio	Lower	Upper
105	100		
120	49.3	21.1	81.1

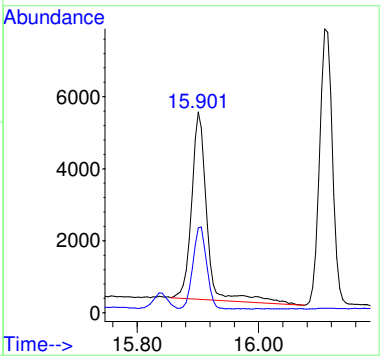


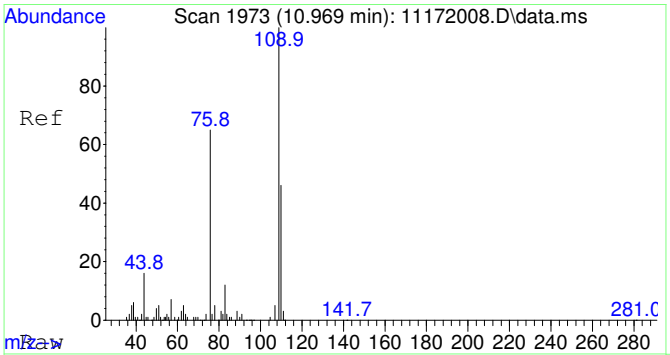


#23
1,2,4-Trimethylbenzene
Concen: 60.04 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 9137

Ion	Ratio	Lower	Upper
105	100		
120	38.7	17.2	77.2

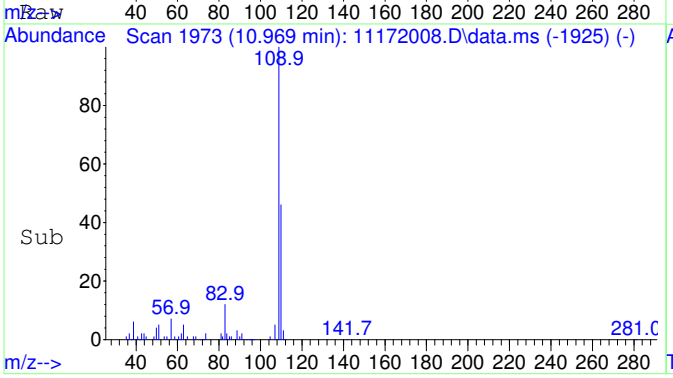


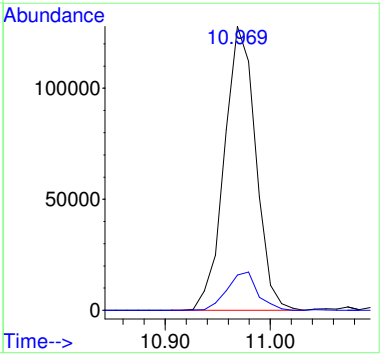


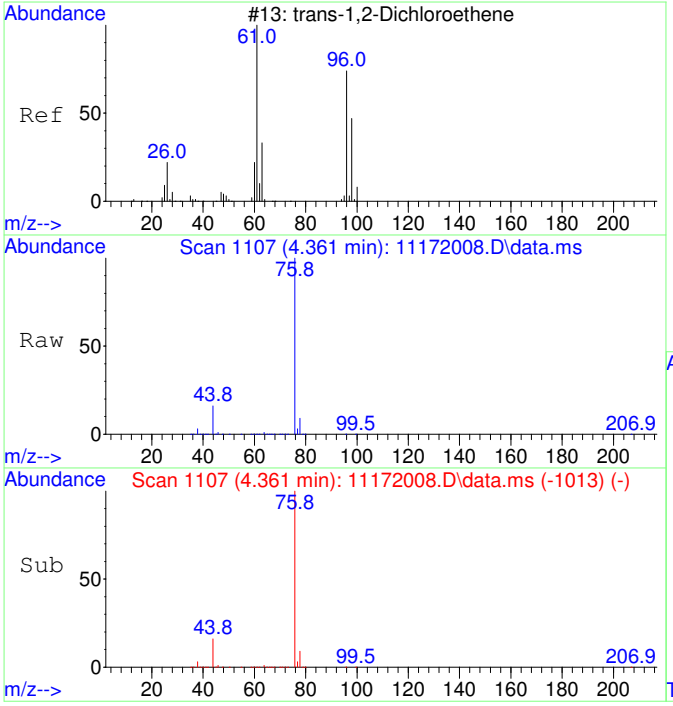
#25
2-Fluorotoluene SCAN
Concen: 5019.15 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:109 Resp: 265508

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.8



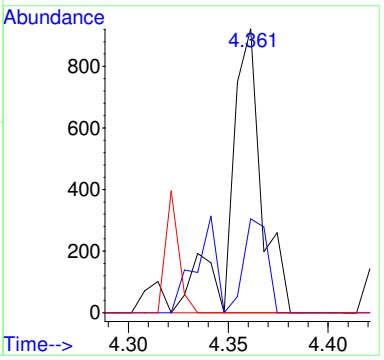


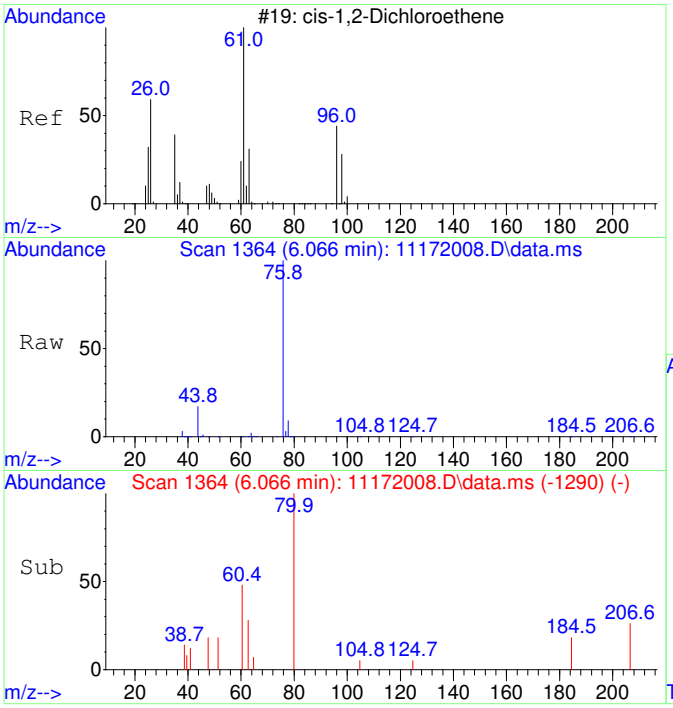


#27
trans-1,2-Dichloroethene SCAN
Concen: 72.80 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. 0.013 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 1012

Ion	Ratio	Lower	Upper
61	100		
96	25.0	49.0	109.0#
98	0.0	20.5	80.5#

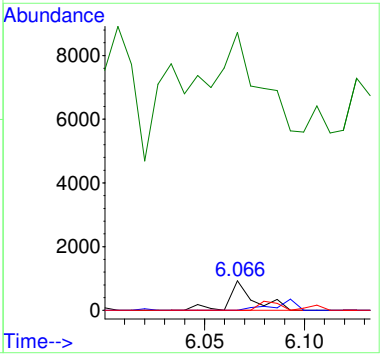


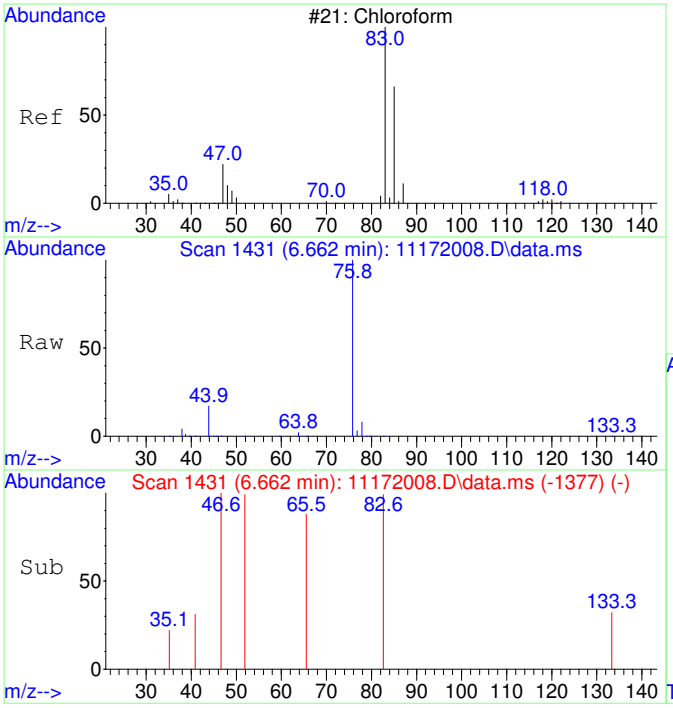


#29
cis-1,2-Dichloroethene SCAN
Concen: 45.48 ug/L
RT: 6.066 min Scan# 1364
Delta R.T. -0.007 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 784

Ion	Ratio	Lower	Upper
61	100		
96	0.0	39.9	99.9#
98	0.0	13.5	73.5#
64	1243.8	4.5	64.5#

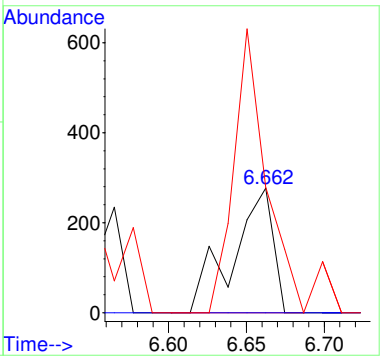


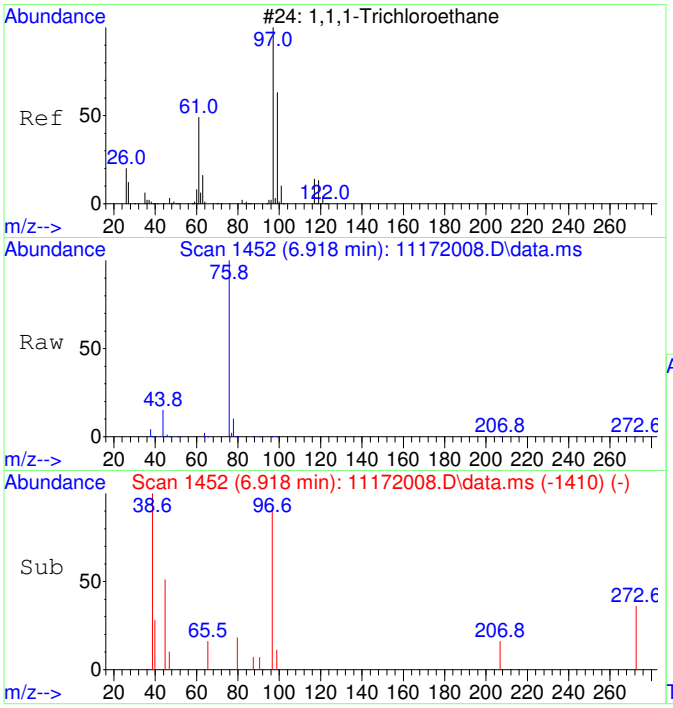


#30
Chloroform SCAN
Concen: 26.90 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 503

Ion	Ratio	Lower	Upper
83	100		
85	0.0	34.6	94.6#
47	198.0	0.0	53.4#

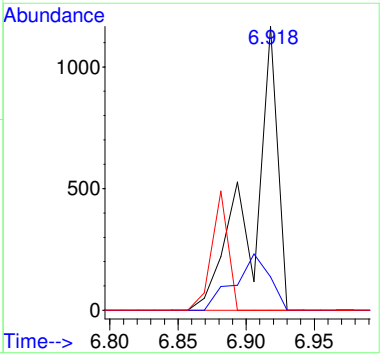


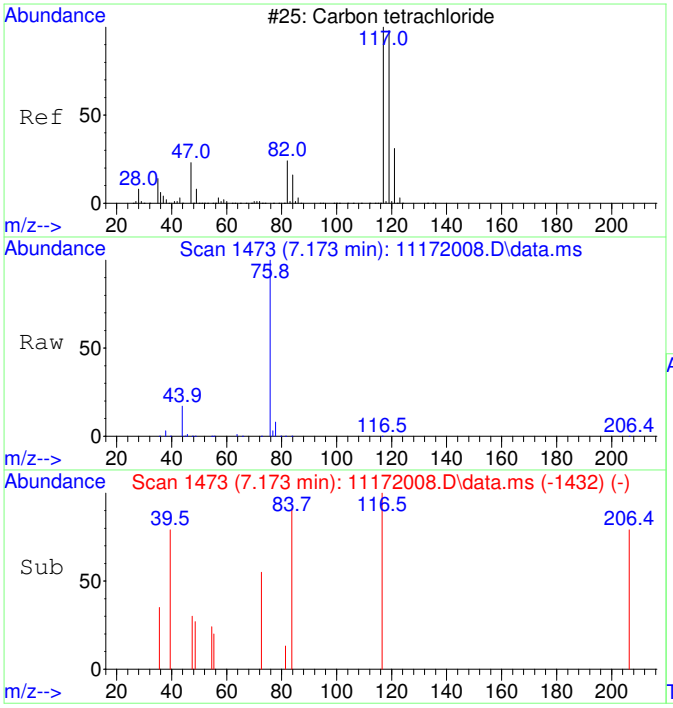


#31
1,1,1-Trichloroethane SCAN
Concen: 89.22 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 1520

Ion	Ratio	Lower	Upper
97	100		
99	27.4	43.6	103.6#
61	0.0	18.0	78.0#

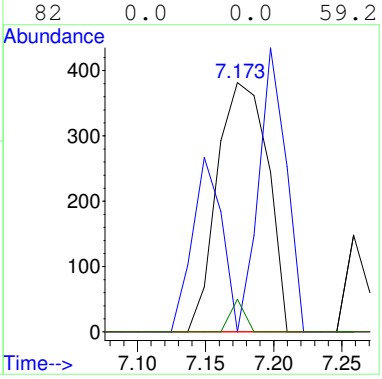


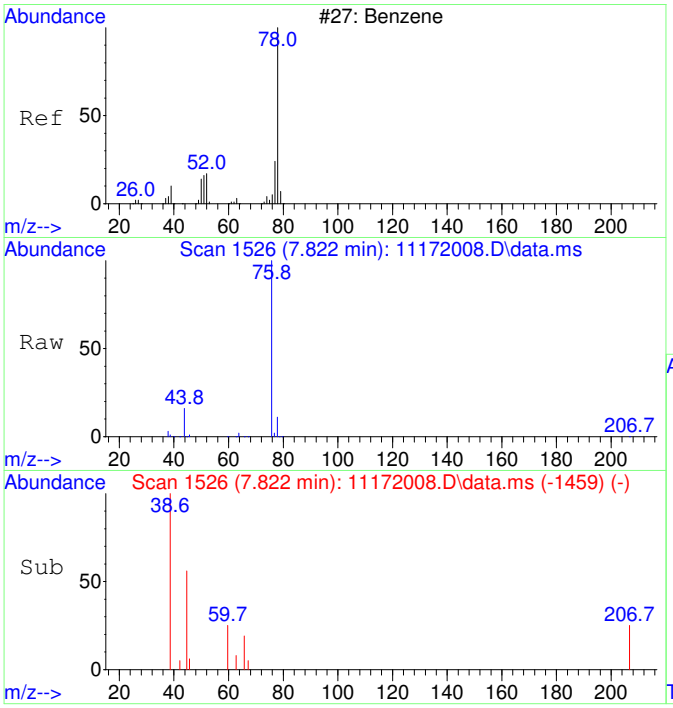


#32
Carbon tetrachloride SCAN
Concen: 55.48 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:117 Resp: 986

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

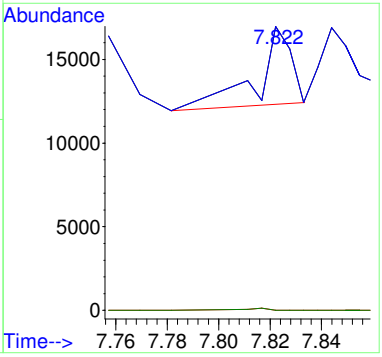


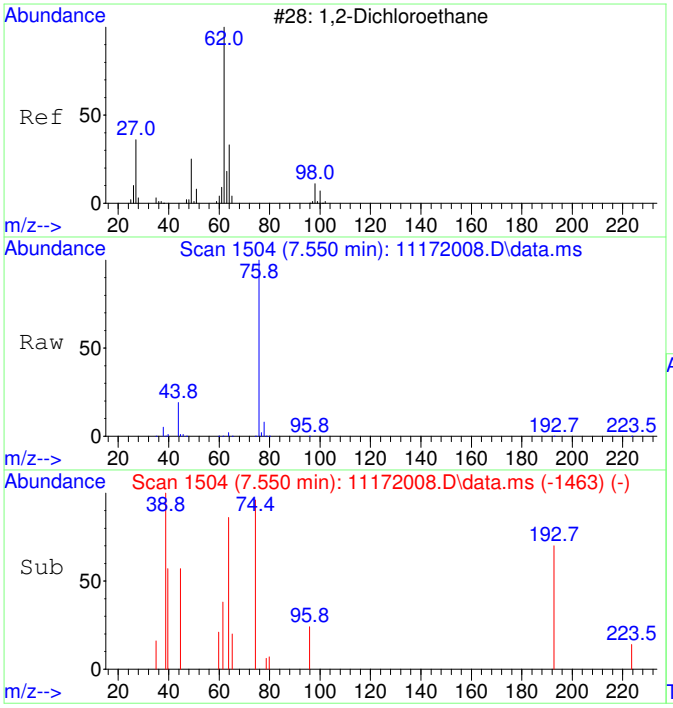


#33
Benzene SCAN
Concen: 137.18 ug/L
RT: 7.822 min Scan# 1526
Delta R.T. 0.320 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 78 Resp: 6435

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	2.0	0.0	47.9
51	2.0	0.0	44.1

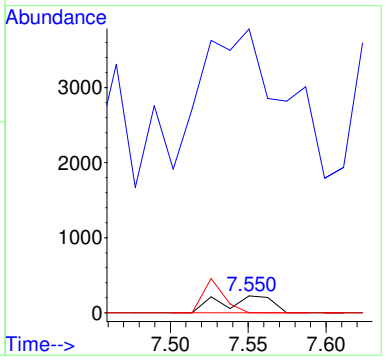


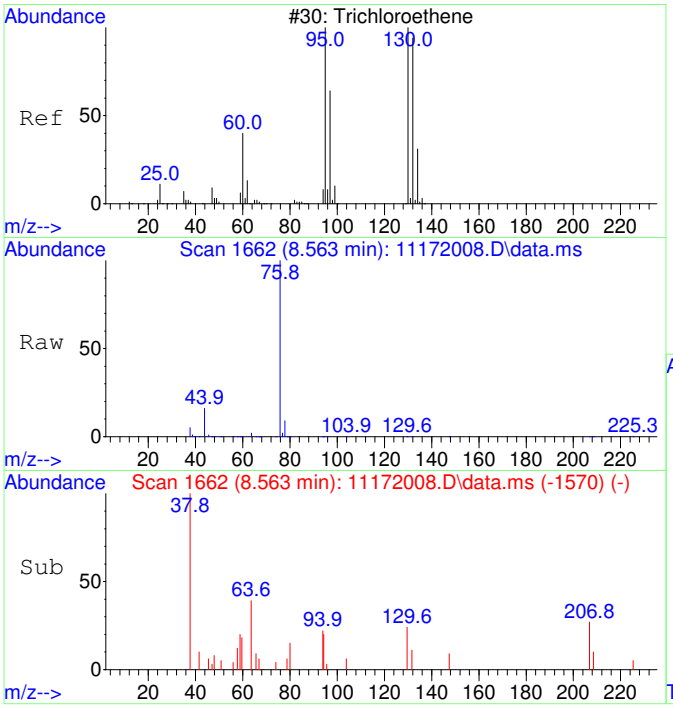


#34
1,2-Dichloroethane SCAN
Concen: 29.27 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 62 Resp: 507

Ion	Ratio	Lower	Upper
62	100		
64	1336.5	5.2	65.2#
49	0.0	3.9	63.9#

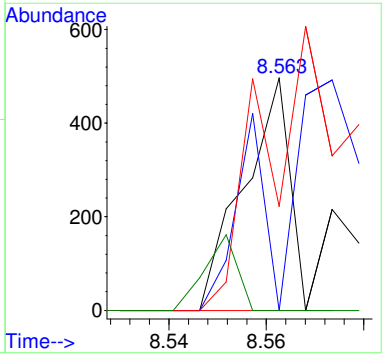


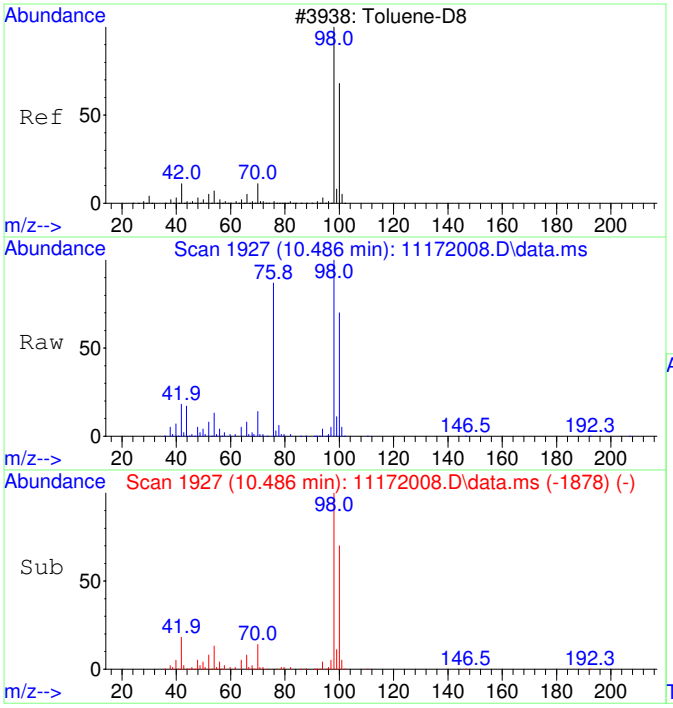


#35
Trichloroethene SCAN
Concen: 25.29 ug/L
RT: 8.563 min Scan# 1662
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:130 Resp: 326

Ion	Ratio	Lower	Upper
130	100		
95	0.0	60.5	120.5#
132	259.2	59.6	119.6#
97	23.3	28.2	88.2#

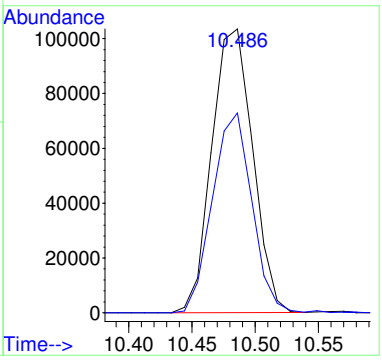


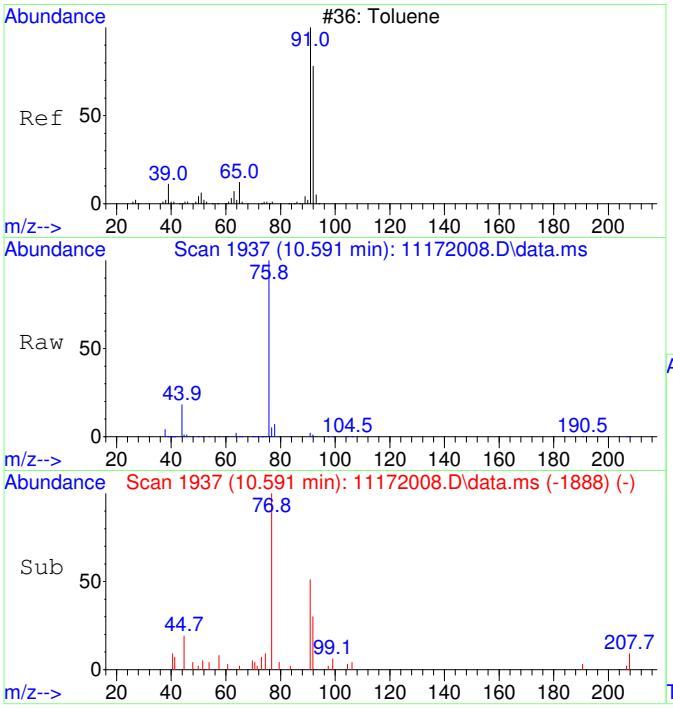


#36
Toluene-d8 SCAN
Concen: 4525.85 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 98 Resp: 234139

Ion	Ratio	Lower	Upper
98	100		
100	68.0	40.0	100.0

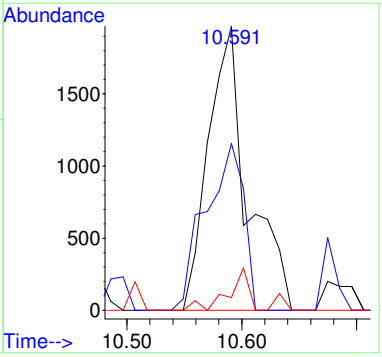


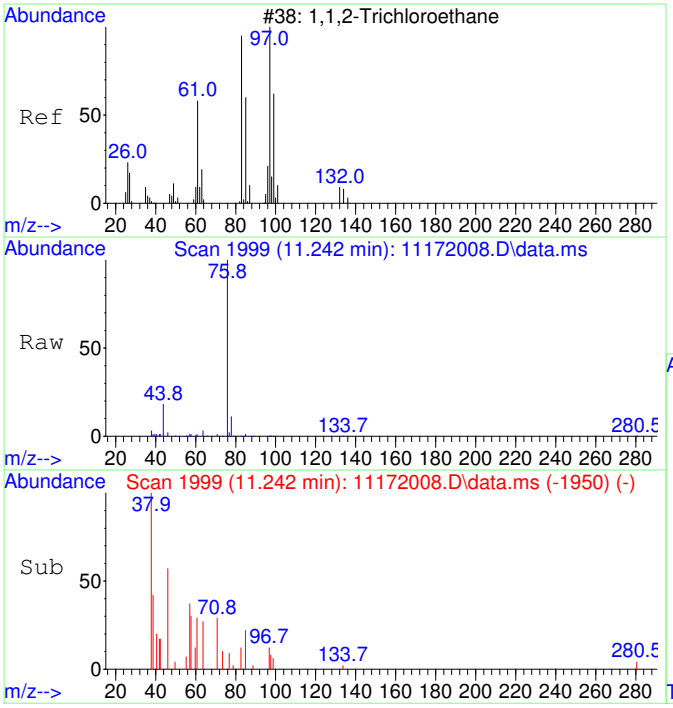


#37
Toluene SCAN
Concen: 70.94 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 4700

Ion	Ratio	Lower	Upper
91	100		
92	57.1	28.3	88.3
65	7.5	0.0	41.0

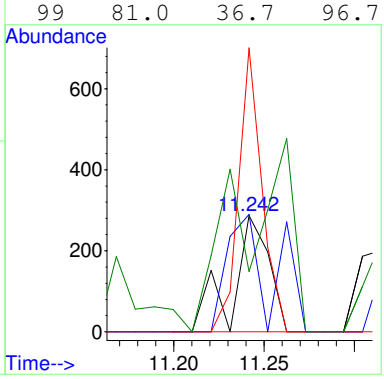


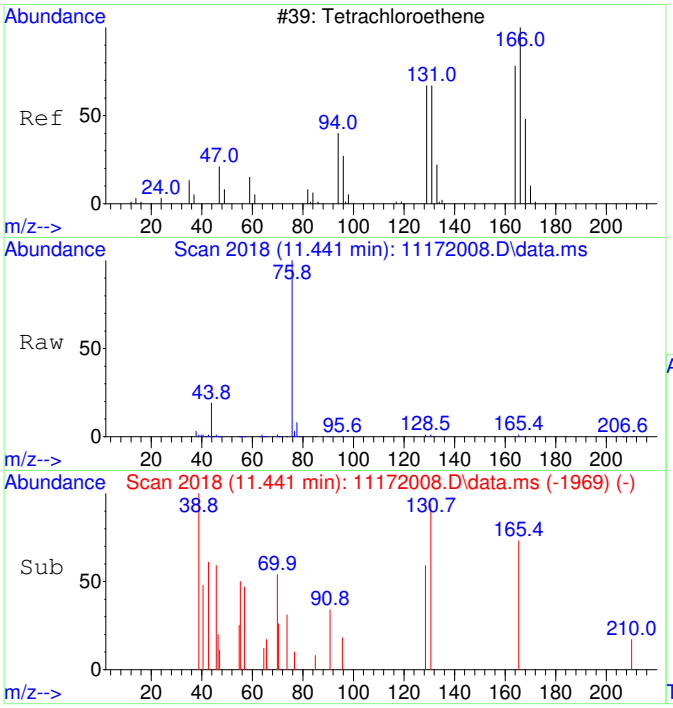


#38
1,1,2-Trichloroethane SCAN
Concen: 26.90 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 400

Ion	Ratio	Lower	Upper
97	100		
83	125.5	57.7	117.7#
61	158.5	32.1	92.1#
99	81.0	36.7	96.7

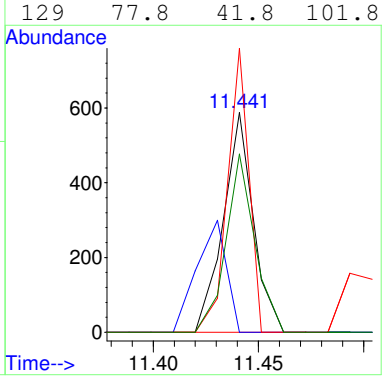


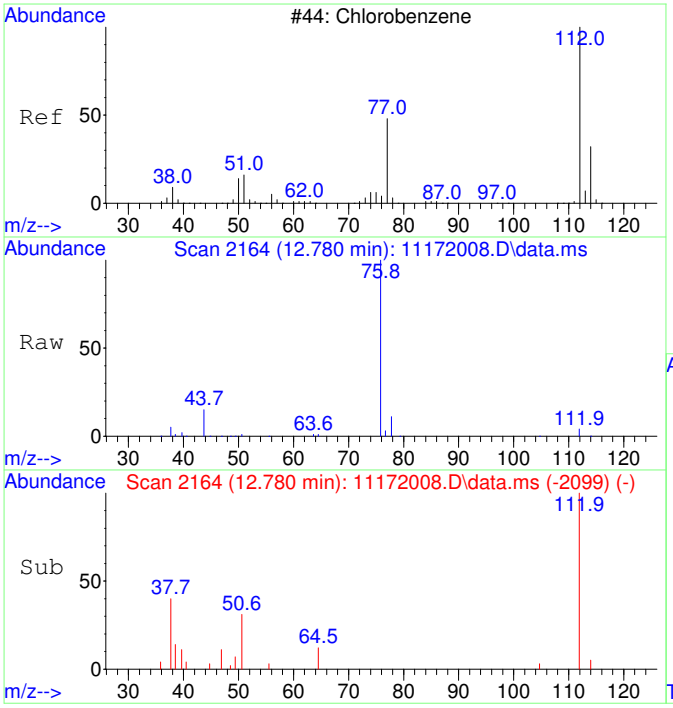


#39
Tetrachloroethene SCAN
Concen: 36.56 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:166 Resp: 582

Ion	Ratio	Lower	Upper
166	100		
164	50.2	50.9	110.9#
131	92.1	38.7	98.7
129	77.8	41.8	101.8

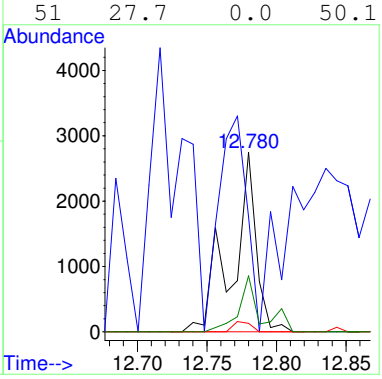


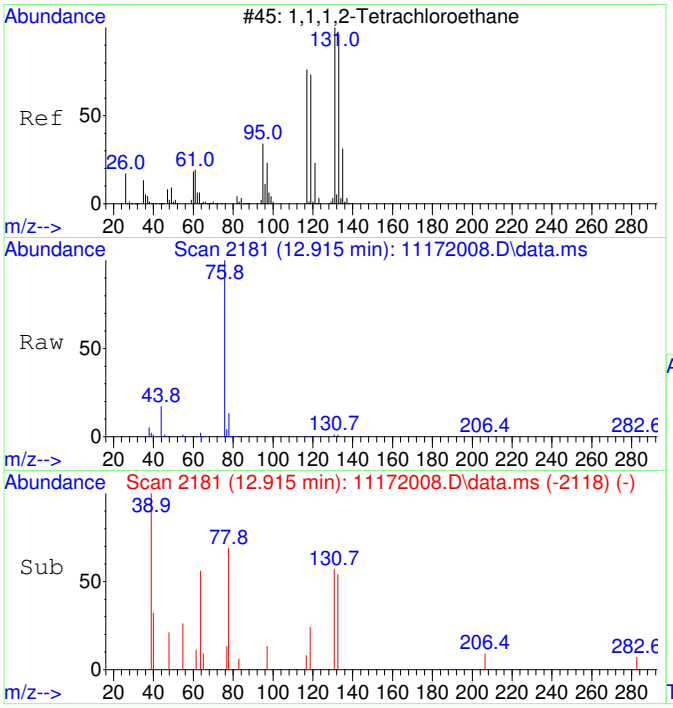


#40
Chlorobenzene SCAN
Concen: 72.83 ug/L
RT: 12.780 min Scan# 2164
Delta R.T. 0.016 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:112 Resp: 3297

Ion	Ratio	Lower	Upper
112	100		
77	139.8	28.2	88.2#
114	4.2	2.3	62.3
51	27.7	0.0	50.1

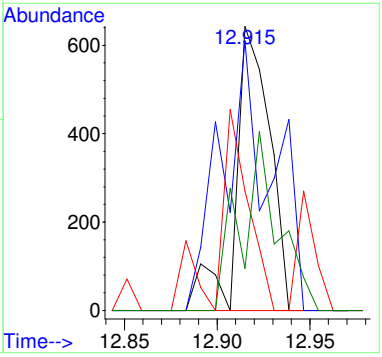


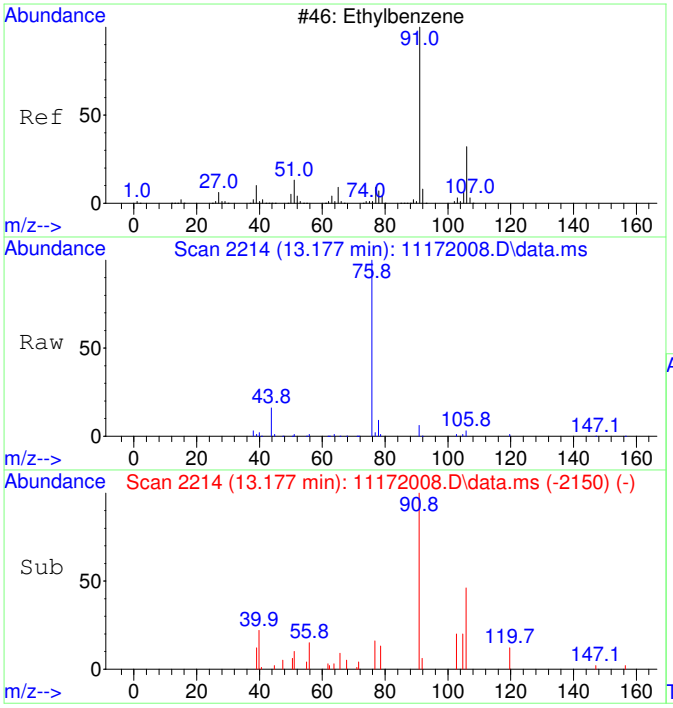


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 49.12 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:131 Resp: 823

Ion	Ratio	Lower	Upper
131	100		
133	136.6	66.9	126.9#
119	62.3	40.4	100.4
117	68.4	35.1	95.1

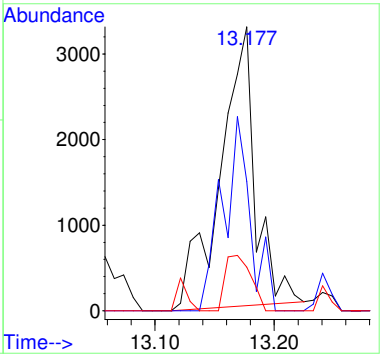


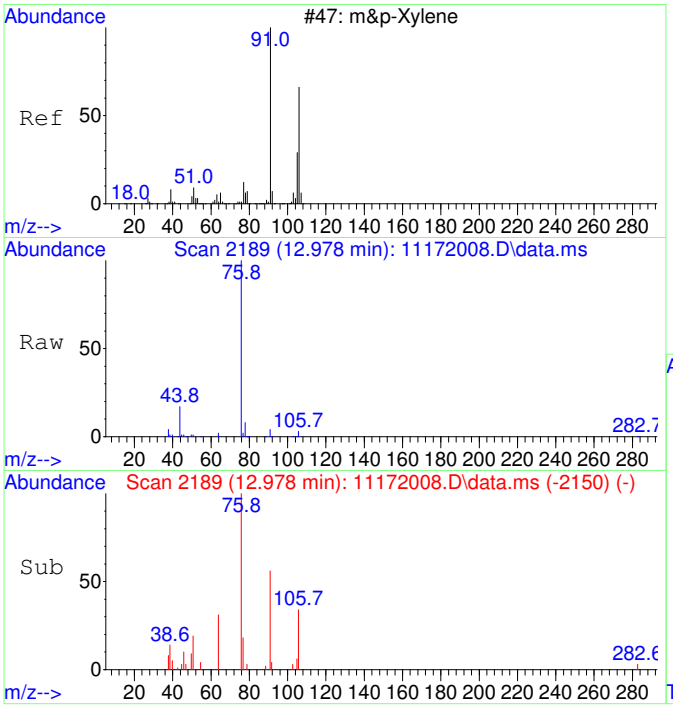


#42
Ethylbenzene SCAN
Concen: 55.48 ug/L
RT: 13.177 min Scan# 2214
Delta R.T. 0.008 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 6696

Ion	Ratio	Lower	Upper
91	100		
106	55.6	23.1	83.1
51	14.6	0.0	40.1

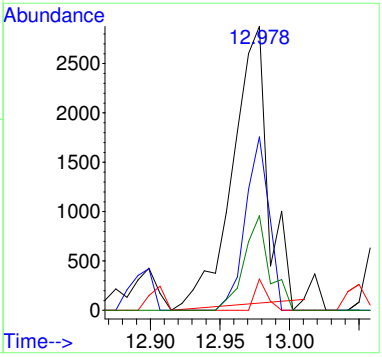


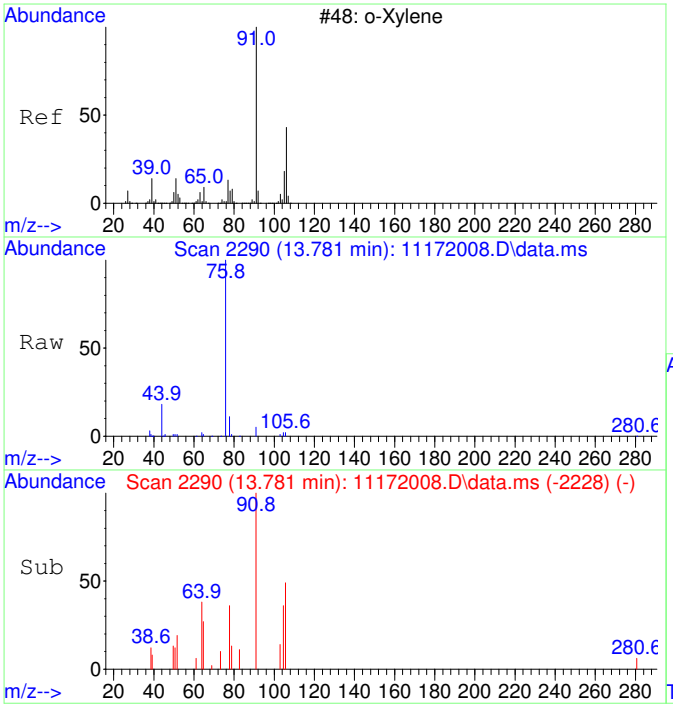


#43
m&p-Xylene SCAN
Concen: 40.39 ug/L
RT: 12.978 min Scan# 2189
Delta R.T. -0.191 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 4875

Ion	Ratio	Lower	Upper
91	100		
106	42.5	23.1	83.1
105	4.0	0.0	54.7
51	25.1	0.0	40.1

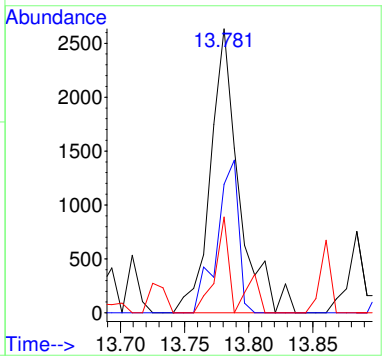


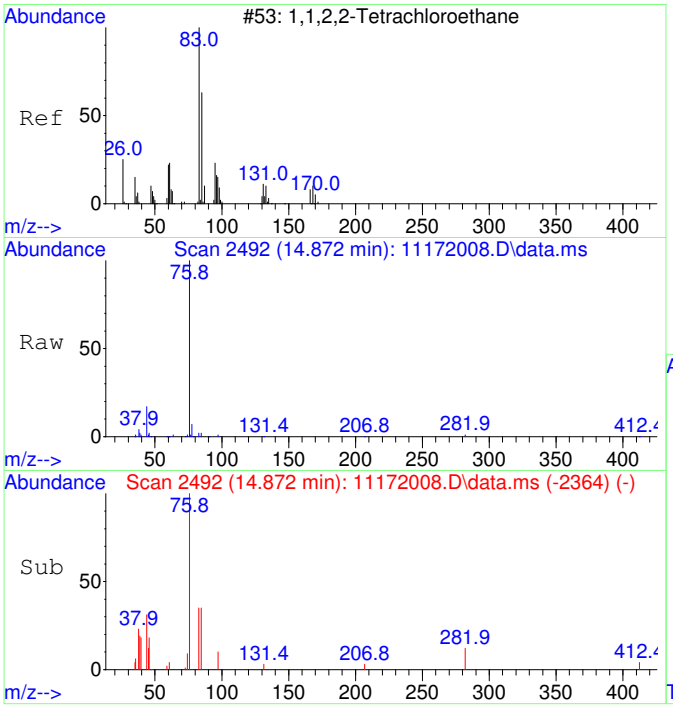


#44
o-Xylene SCAN
Concen: 63.04 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 4073

Ion	Ratio	Lower	Upper
91	100		
106	40.4	18.0	78.0
105	21.8	0.0	56.6

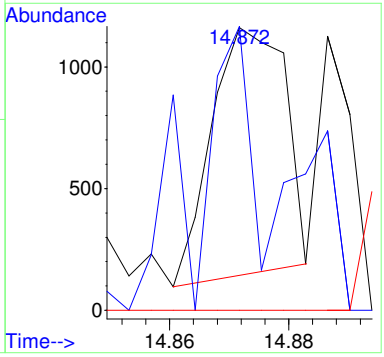


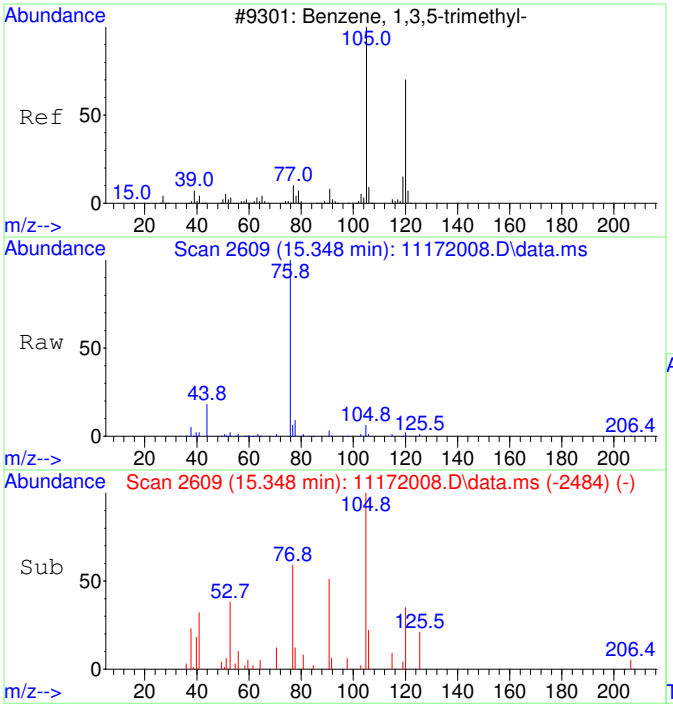


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 27.74 ug/L
RT: 14.872 min Scan# 2492
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 874

Ion	Ratio	Lower	Upper
83	100		
85	133.1	35.9	95.9#
95	0.0	0.0	47.4

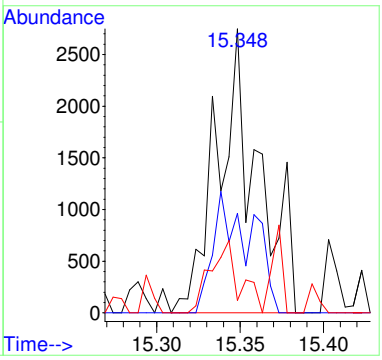


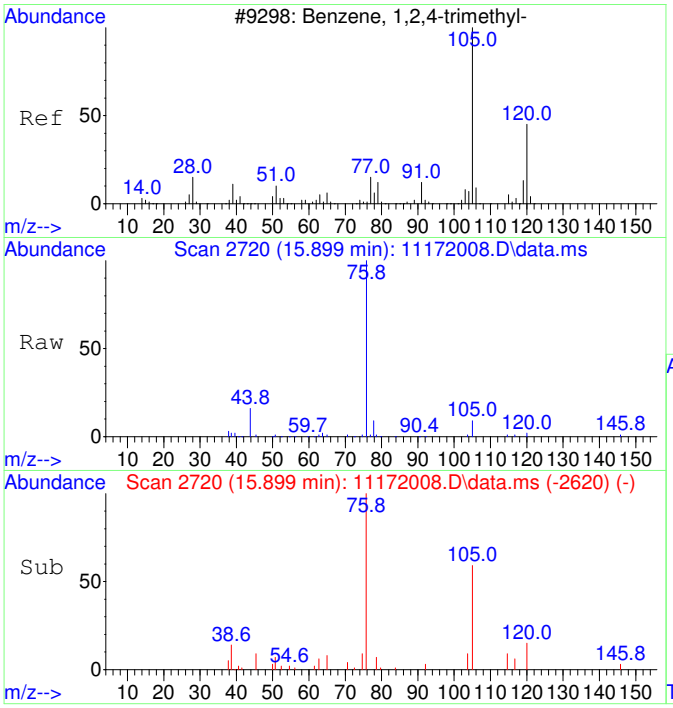


#46
1,3,5-Trimethylbenzene SCAN
Concen: 68.69 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 4677

Ion	Ratio	Lower	Upper
105	100		
120	39.6	18.3	78.3
119	18.2	0.0	43.1

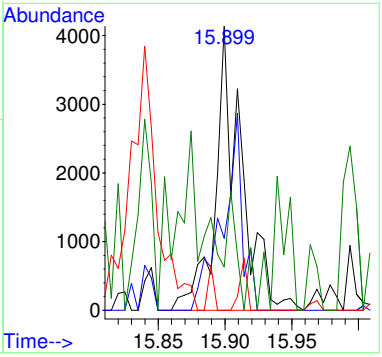


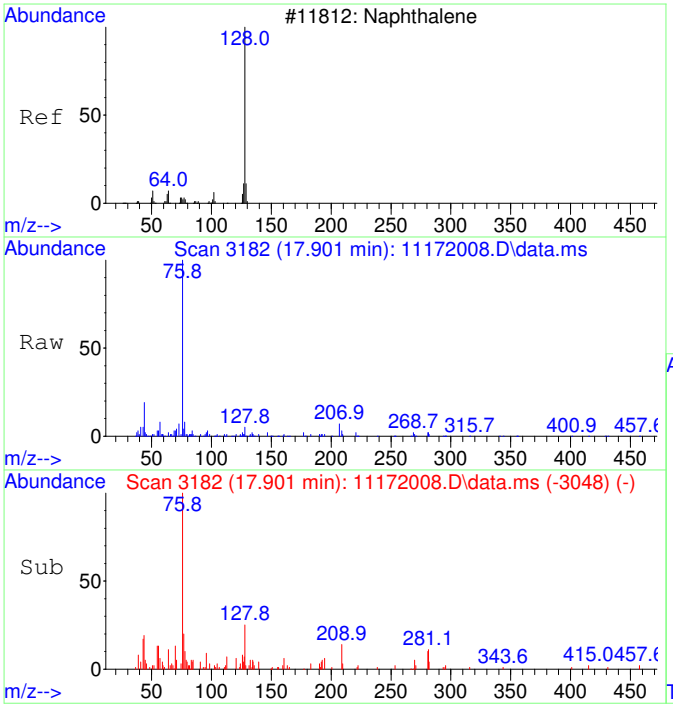


#47
1,2,4-Trimethylbenzene SCAN
Concen: 80.53 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.005 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 5611

Ion	Ratio	Lower	Upper
105	100		
120	53.3	16.9	76.9
119	5.1	0.0	41.9
77	4.8	0.0	42.3

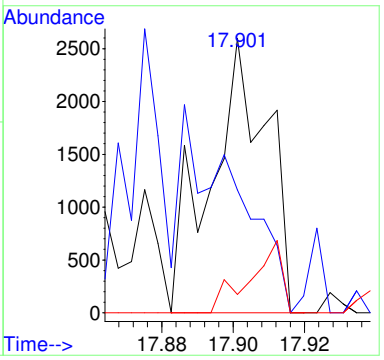




#48
Naphthalene SCAN
Concen: 27.23 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. -0.004 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:128 Resp: 2871

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	44.0
129	14.9	0.0	40.8



2011017-01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172013.D
Acq On : 17 Nov 2020 12:38
InstName : AG5975C
Operator : TD
Sample : 2011017-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 17 12:57:22 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

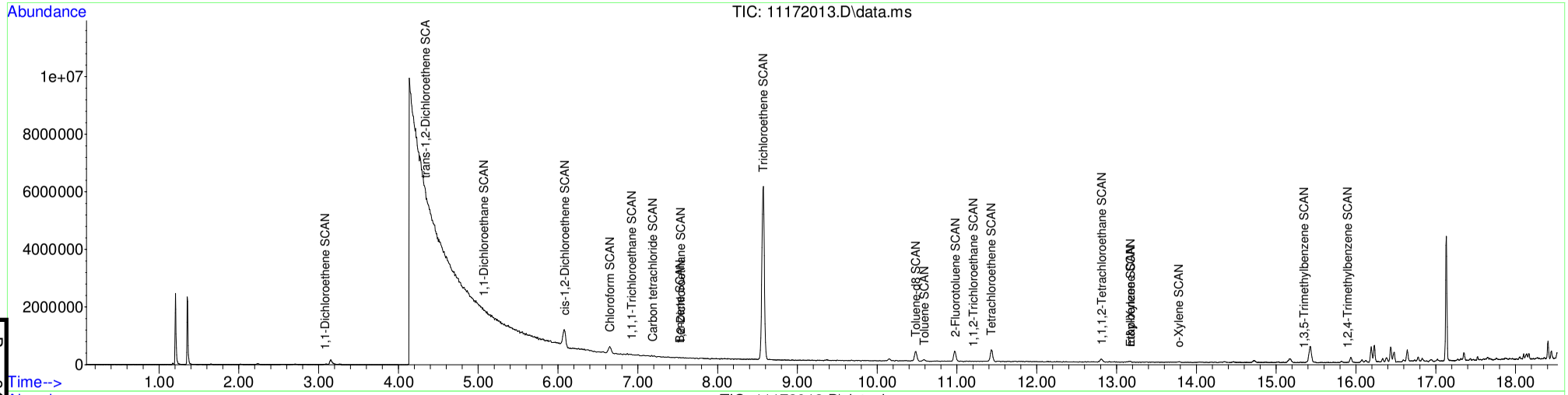
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	606120	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	512481	4319.10 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.38%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	23889m	987.01 ug/L	
3] trans-1,2-Dichloroethene	4.349	61	52836	1889.44 ug/L	99
4] 1,1-Dichloroethane	5.066	63	27302	784.32 ug/L	97
5] cis-1,2-Dichloroethene	6.074	61	907199	24689.78 ug/L	100
6] Chloroform	6.652	83	369371	9821.40 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	37456	917.06 ug/L	100
8] Carbon tetrachloride	7.175	117	2827	73.54 ug/L	97
9] Benzene	7.503	78	8523	82.76 ug/L #	1
10] 1,2-Dichloroethane	7.540	62	6034	164.13 ug/L	59
11] Trichloroethene	8.569	130	4392671	141667.61 ug/L **OC**	93
13] Toluene	10.582	91	83987	555.20 ug/L	98
15] Tetrachloroethene	11.432	166	308023	7035.98 ug/L	100
18] Ethylbenzene	12.972	91	8451	45.90 ug/L	93
19] m&p-Xylene	13.163	91	35973	249.97 ug/L	95
20] o-Xylene	13.782	91	28013	182.20 ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.873	83	2035	29.86 ug/L #	26
22] 1,3,5-Trimethylbenzene	15.345	105	4235	25.88 ug/L	88
23] 1,2,4-Trimethylbenzene	15.901	105	9139	53.76 ug/L	85
25) 2-Fluorotoluene SCAN	10.979	109	281615	4766.23 ug/L	94
26) 1,1-Dichloroethene SCAN	3.077	61	6120	487.73 ug/L #	44
27) trans-1,2-Dichloroethe...	4.341	61	27234	1753.94 ug/L	95
28) 1,1-Dichloroethane SCAN	5.071	63	15524	863.89 ug/L	77
29) cis-1,2-Dichloroethene...	6.080	61	489670	25433.44 ug/L #	85
30) Chloroform SCAN	6.650	83	198827	9521.20 ug/L	96
31) 1,1,1-Trichloroethane ...	6.918	97	18843	990.18 ug/L	90
32) Carbon tetrachloride SCAN	7.186	117	1750	88.16 ug/L #	15
33) Benzene SCAN	7.526	78	9156	174.74 ug/L	99
34) 1,2-Dichloroethane SCAN	7.538	62	3062	158.26 ug/L #	53
35) Trichloroethene SCAN	8.574	130	2116388	146982.86 ug/L	87
36) Toluene-d8 SCAN	10.486	98	267516	4629.60 ug/L	88
37) Toluene SCAN	10.591	91	43101	582.44 ug/L #	94
38) 1,1,2-Trichloroethane ...	11.200	97	510	30.70 ug/L #	72
39) Tetrachloroethene SCAN	11.431	166	136700	7689.08 ug/L	96
41) 1,1,1,2-Tetrachloroeth...	12.812	131	2357	125.95 ug/L #	1
42) Ethylbenzene SCAN	13.169	91	20813	154.38 ug/L	87
43) m&p-Xylene SCAN	13.169	91	20813	154.38 ug/L	91
44) o-Xylene SCAN	13.781	91	17826	247.02 ug/L	74
46) 1,3,5-Trimethylbenzene...	15.343	105	2604	34.24 ug/L	65
47) 1,2,4-Trimethylbenzene...	15.894	105	4601	59.12 ug/L #	68

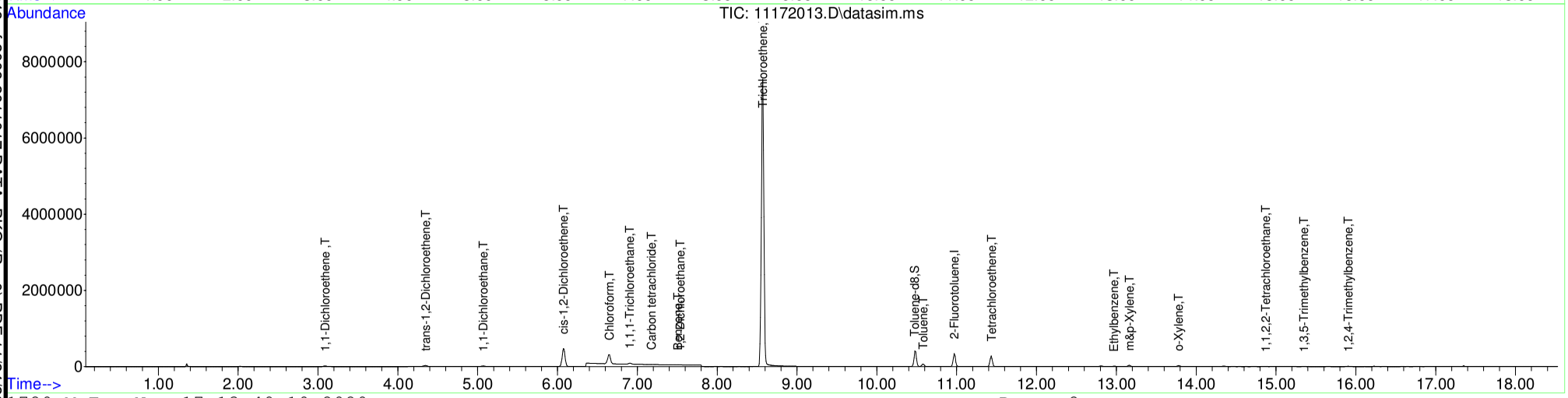
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172013.D
Acq On : 17 Nov 2020 12:38
InstName : AG5975C
Operator : TD
Sample : 2011017-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 17 12:57:22 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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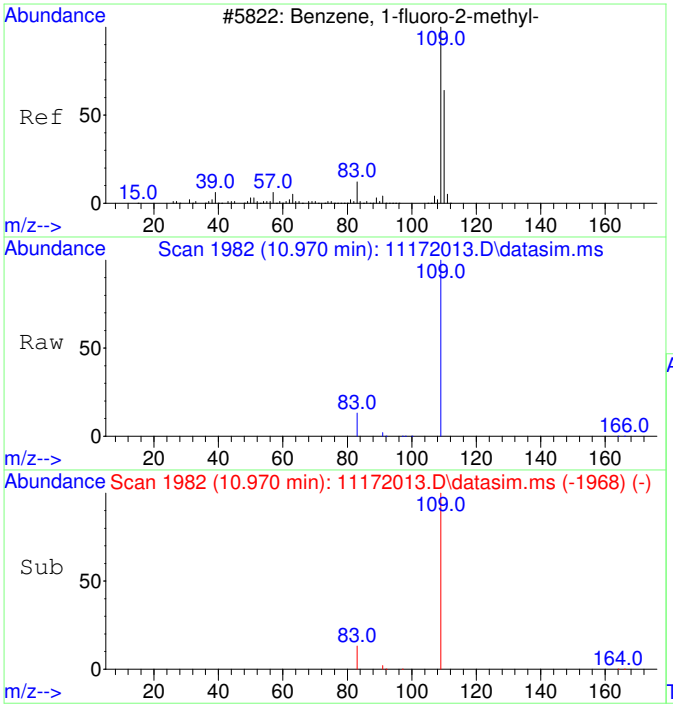
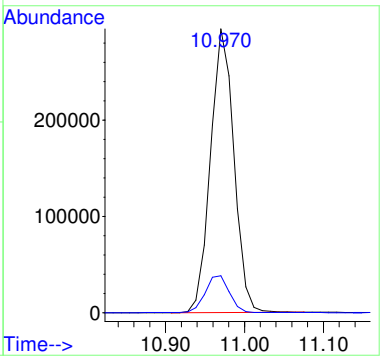
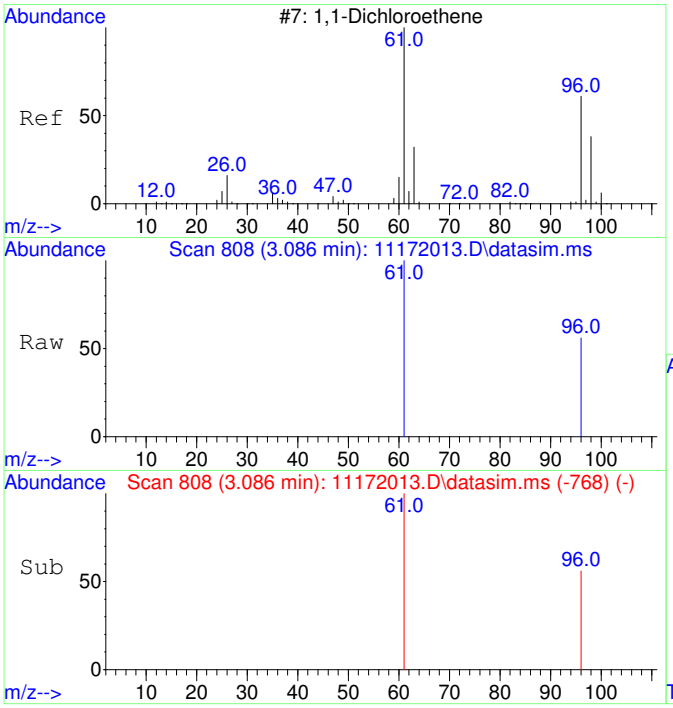


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion:109 Resp: 606120

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

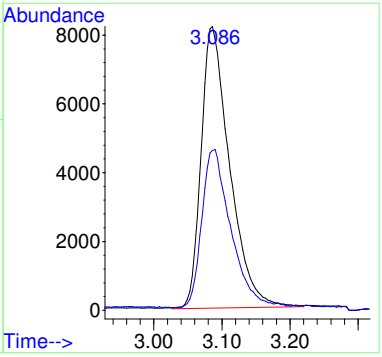


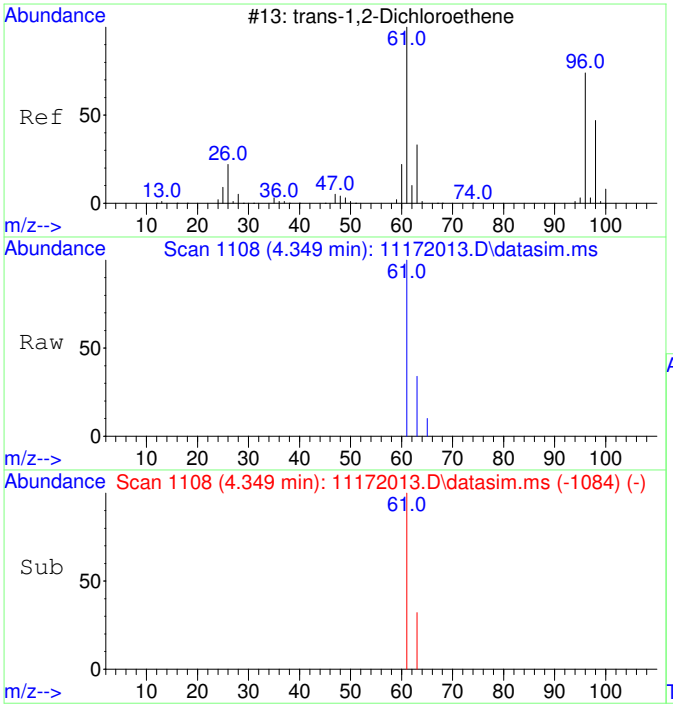


#2
1,1-Dichloroethene
Concen: 987.01 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. 0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 61 Resp: 23889

Ion	Ratio	Lower	Upper
61	100		
96	58.4	37.2	97.2

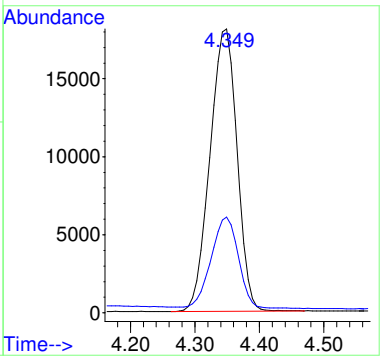


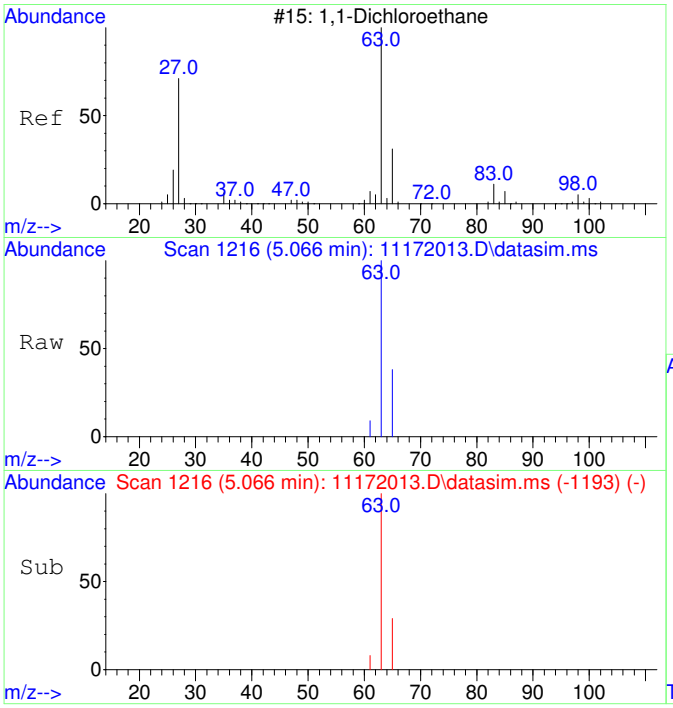


#3
trans-1,2-Dichloroethene
Concen: 1889.44 ug/L
RT: 4.349 min Scan# 1108
Delta R.T. 0.007 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 61 Resp: 52836

Ion	Ratio	Lower	Upper
61	100		
63	33.1	2.4	62.4

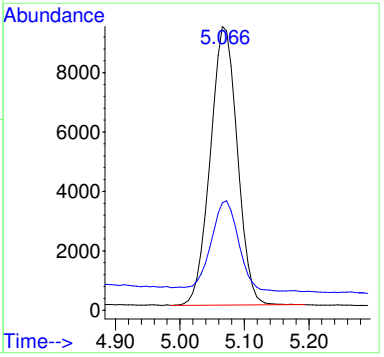


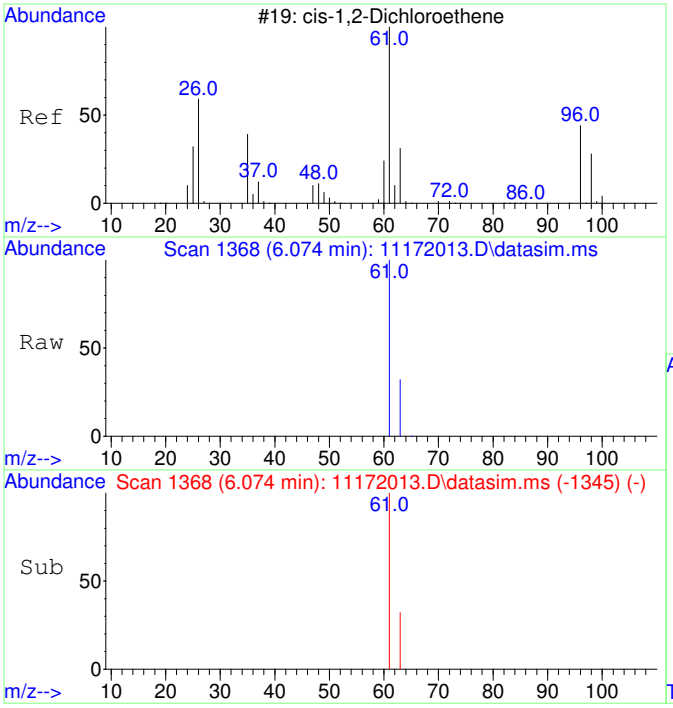


#4
1,1-Dichloroethane
Concen: 784.32 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 63 Resp: 27302

Ion	Ratio	Lower	Upper
63	100		
65	33.5	1.8	61.8

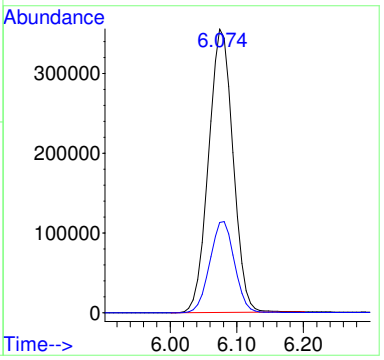


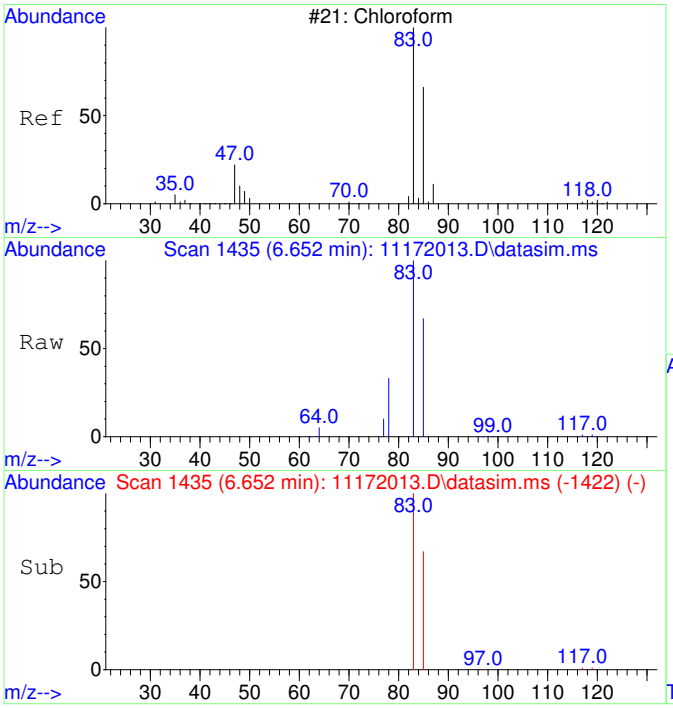


#5
cis-1,2-Dichloroethene
Concen: 24689.78 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. 0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 61 Resp: 907199

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.5	62.5

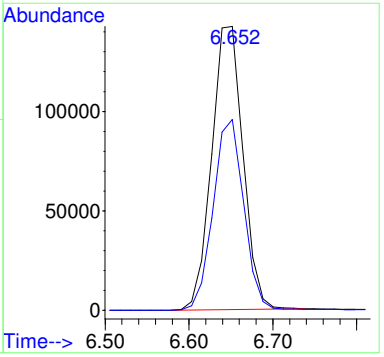


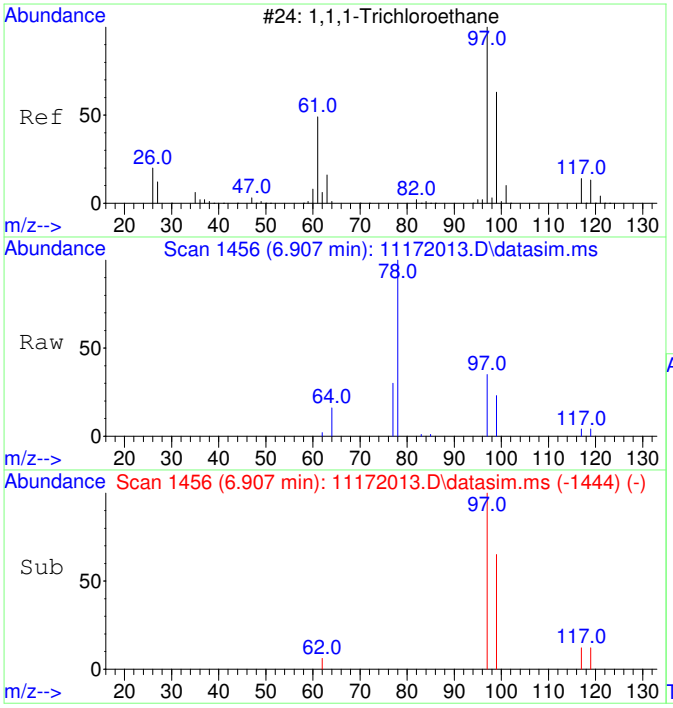


#6
Chloroform
Concen: 9821.40 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 83 Resp: 369371

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.1	95.1

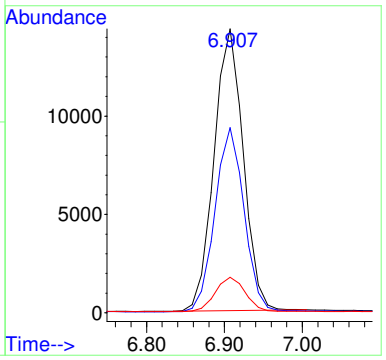


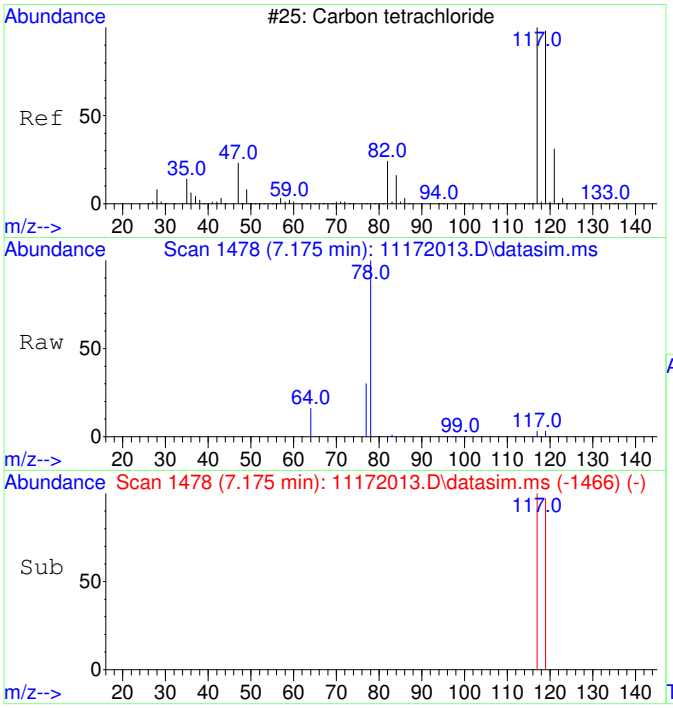


#7
1,1,1-Trichloroethane
Concen: 917.06 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. 0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 97 Resp: 37456

Ion	Ratio	Lower	Upper
97	100		
99	64.7	34.6	94.6
117	12.4	0.0	43.2

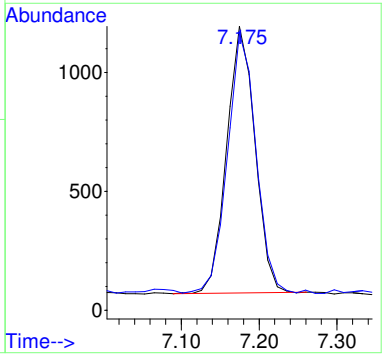


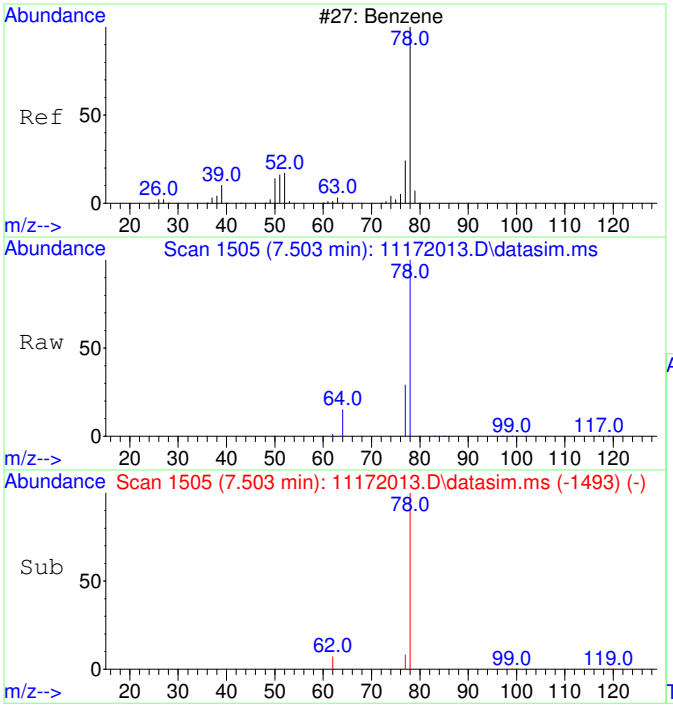


#8
Carbon tetrachloride
Concen: 73.54 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion:117 Resp: 2827

Ion	Ratio	Lower	Upper
117	100		
119	99.0	66.4	126.4

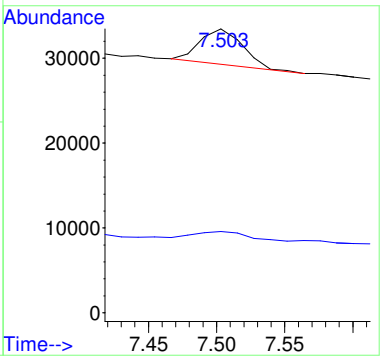


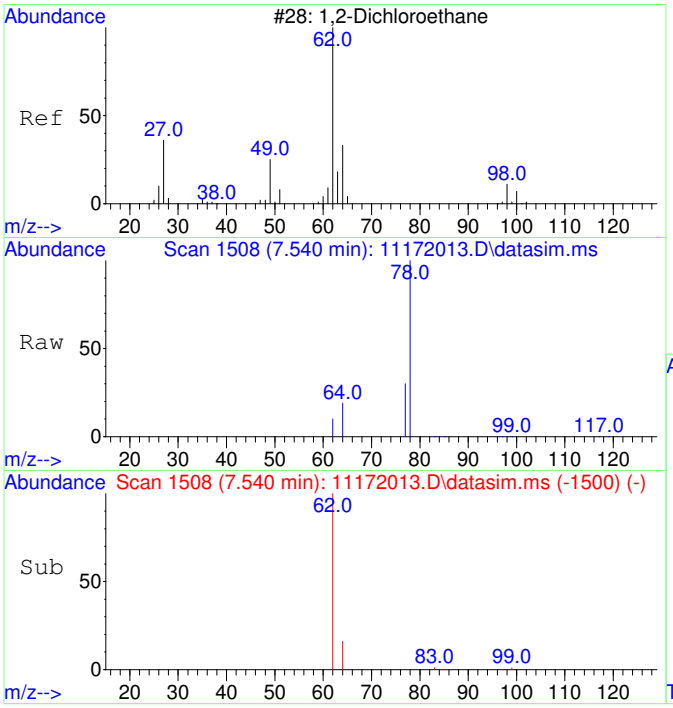


#9
Benzene
Concen: 82.76 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 78 Resp: 8523

Ion	Ratio	Lower	Upper
78	100		
77	73.7	0.0	53.2#

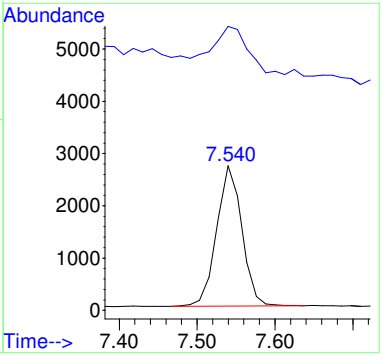


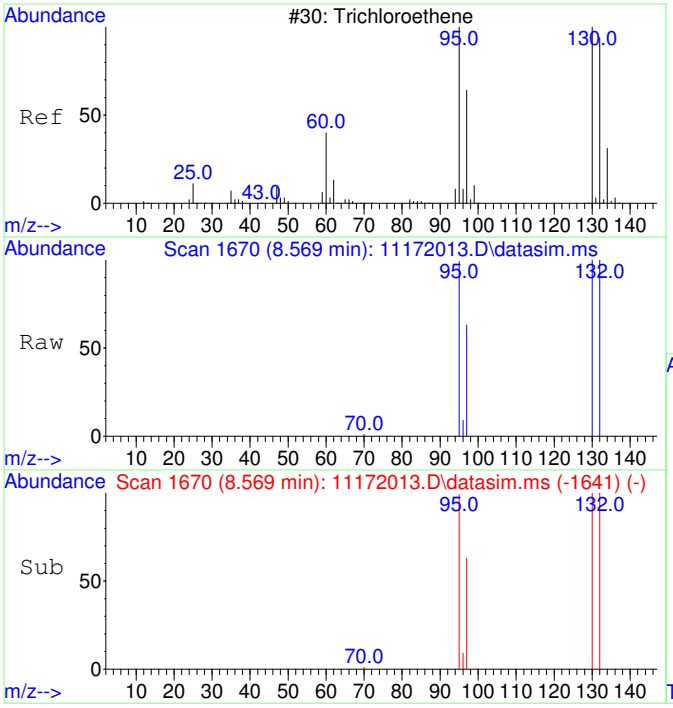


#10
1,2-Dichloroethane
Concen: 164.13 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. 0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 62 Resp: 6034

Ion	Ratio	Lower	Upper
62	100		
64	55.1	2.3	62.3

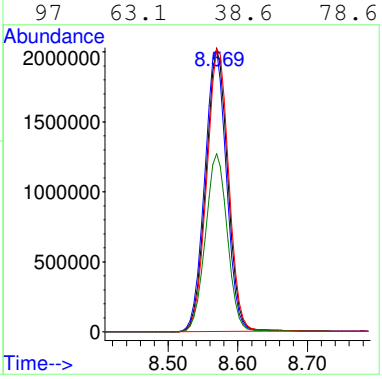


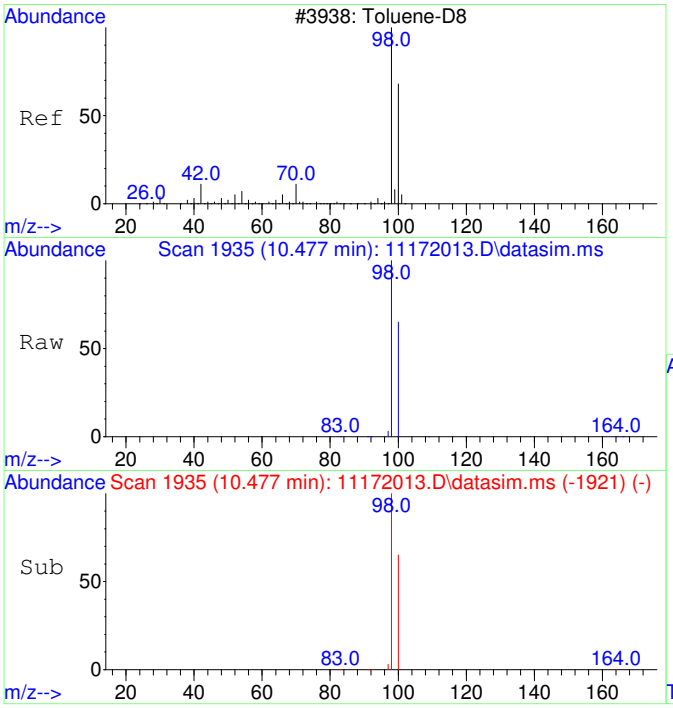


#11
Trichloroethene
Concen: 141667.61 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion:130 Resp: 4392671

Ion	Ratio	Lower	Upper
130	100		
95	99.4	60.7	120.7
132	100.6	76.0	116.0
97	63.1	38.6	78.6

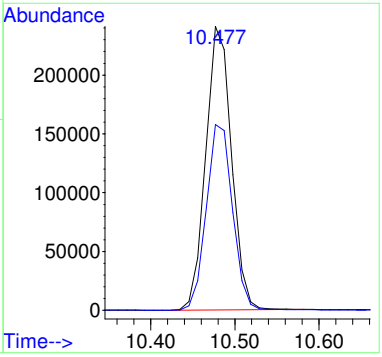


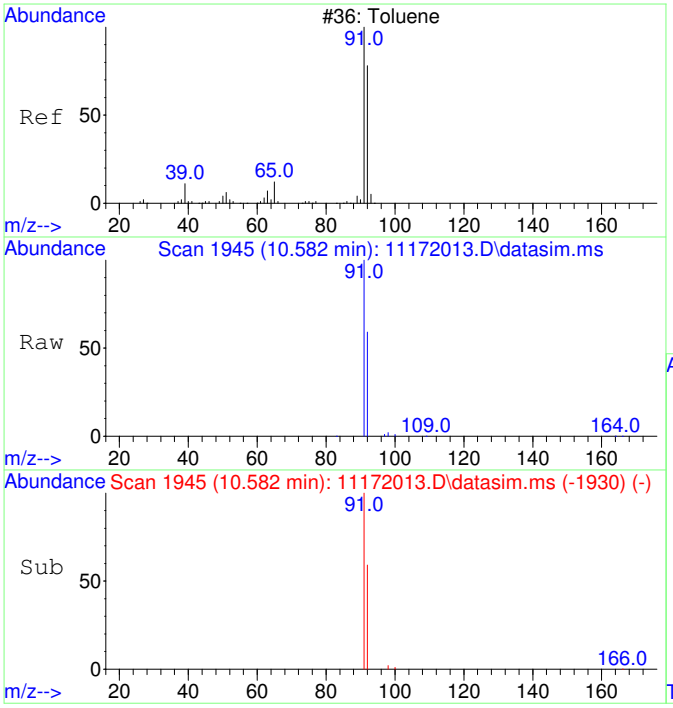


#12
Toluene-d8
Concen: 4319.10 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 98 Resp: 512481

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

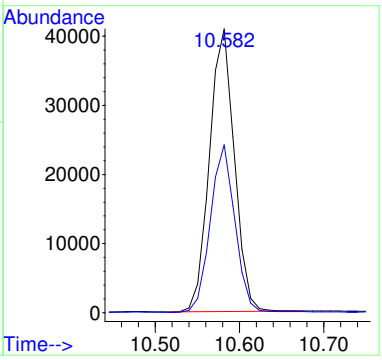


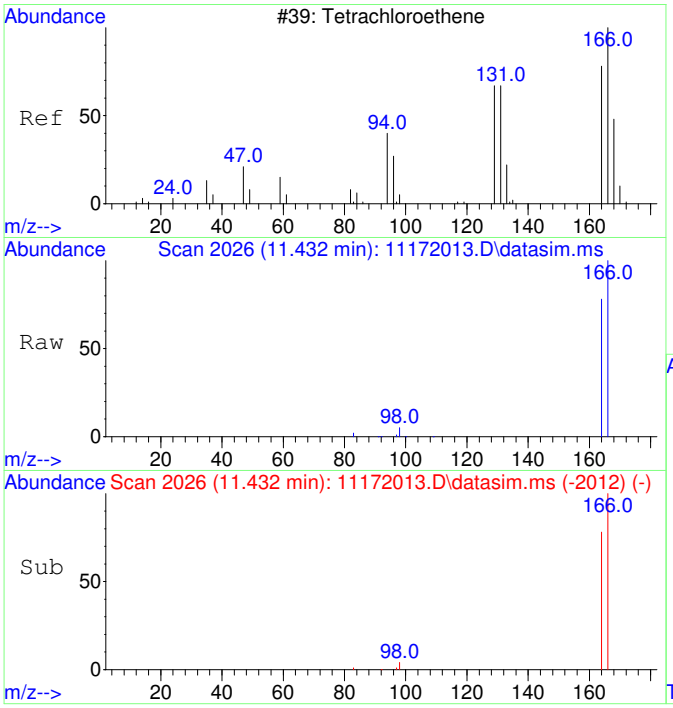


#13
Toluene
Concen: 555.20 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 91 Resp: 83987

Ion	Ratio	Lower	Upper
91	100		
92	58.1	29.9	89.9

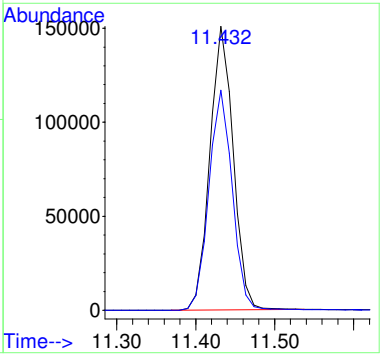


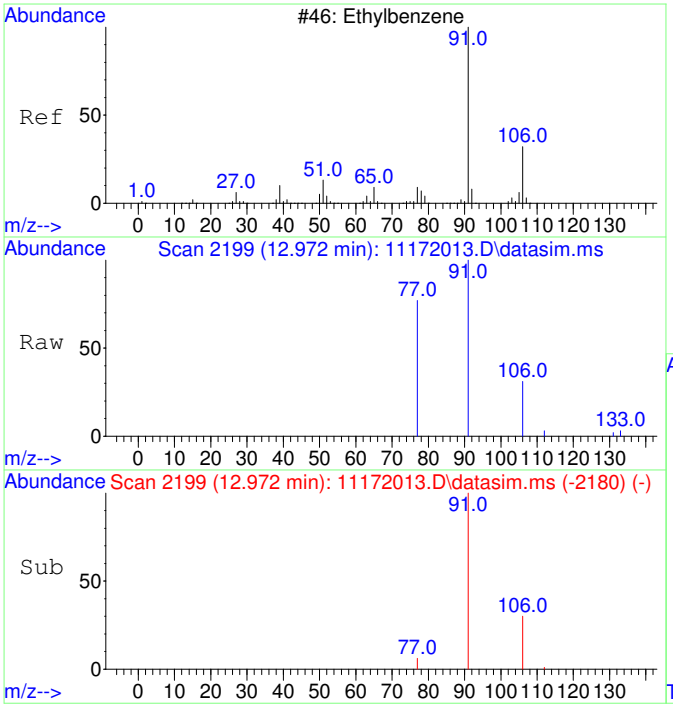


#15
Tetrachloroethene
Concen: 7035.98 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion:166 Resp: 308023

Ion	Ratio	Lower	Upper
166	100		
164	77.4	47.8	107.8

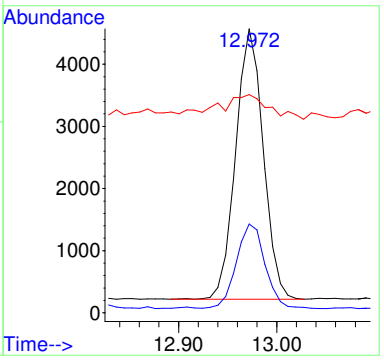


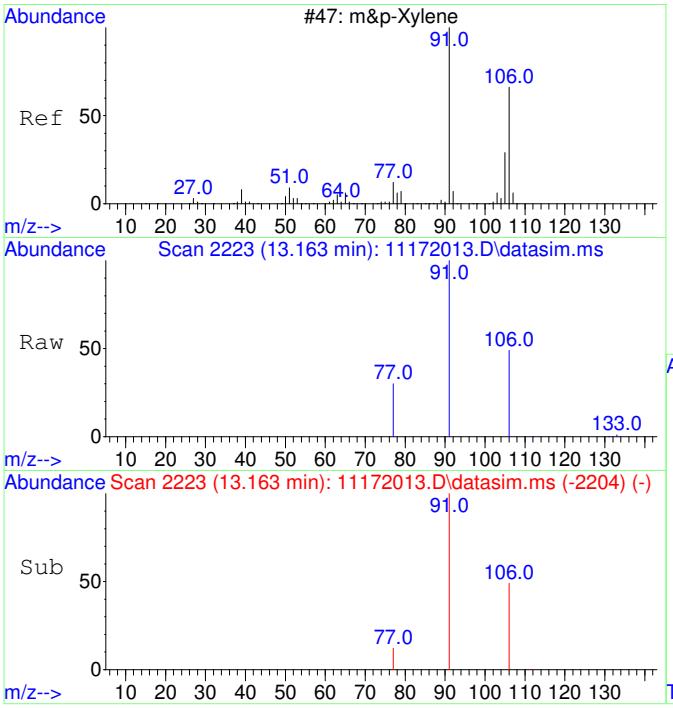


#18
Ethylbenzene
Concen: 45.90 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 91 Resp: 8451

Ion	Ratio	Lower	Upper
91	100		
106	32.2	3.0	63.0
77	18.2	0.0	38.2

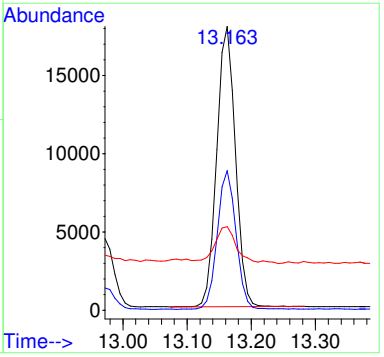


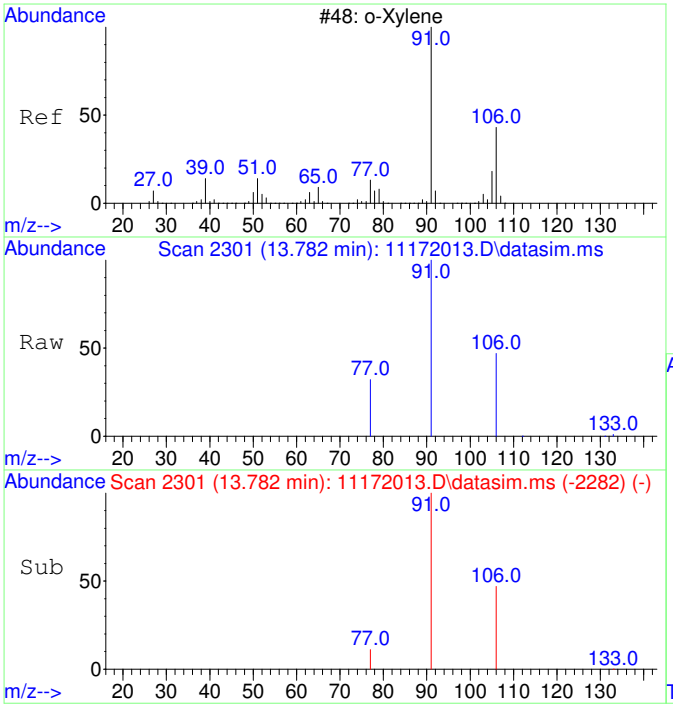


#19
m&p-Xylene
Concen: 249.97 ug/L
RT: 13.163 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 91 Resp: 35973

Ion	Ratio	Lower	Upper
91	100		
106	49.3	22.2	82.2
77	15.9	0.0	42.4

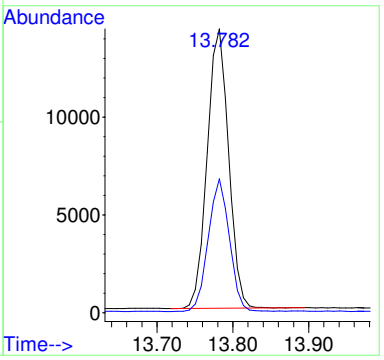


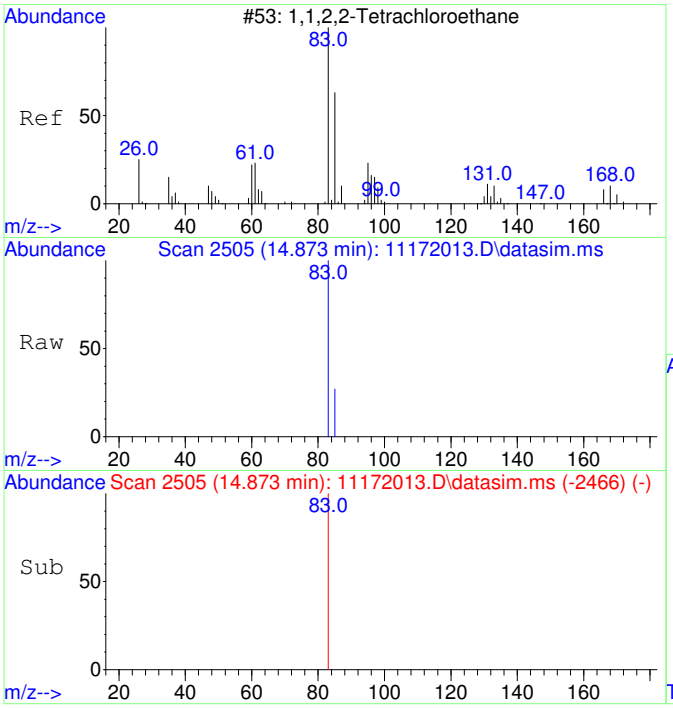


#20
o-Xylene
Concen: 182.20 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 91 Resp: 28013

Ion	Ratio	Lower	Upper
91	100		
106	46.5	19.2	79.2

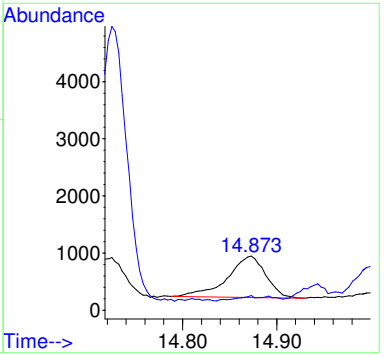


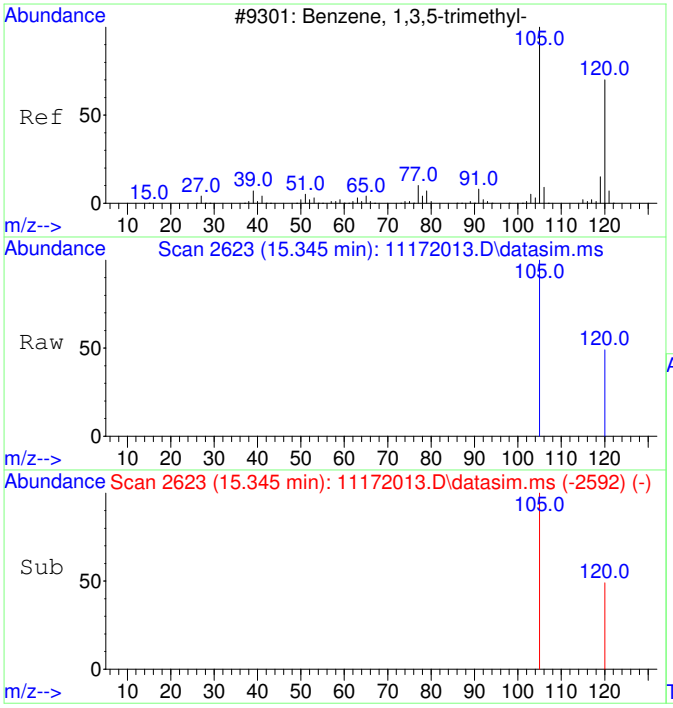


#21
1,1,2,2-Tetrachloroethane
Concen: 29.86 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. -0.004 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 83 Resp: 2035

Ion	Ratio	Lower	Upper
83	100		
85	6.6	34.8	94.8#

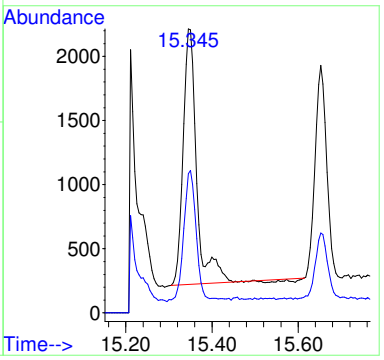


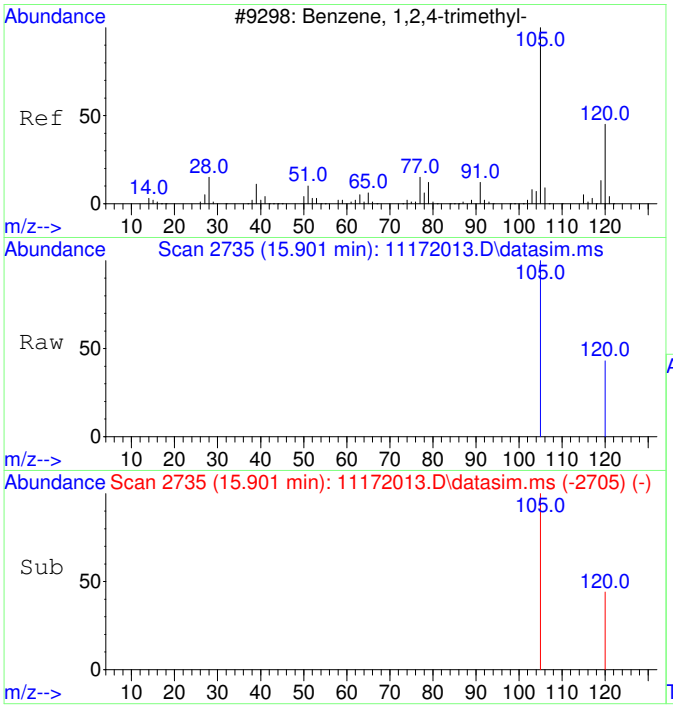


#22
1,3,5-Trimethylbenzene
Concen: 25.88 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion:105 Resp: 4235

Ion	Ratio	Lower	Upper
105	100		
120	42.5	21.1	81.1

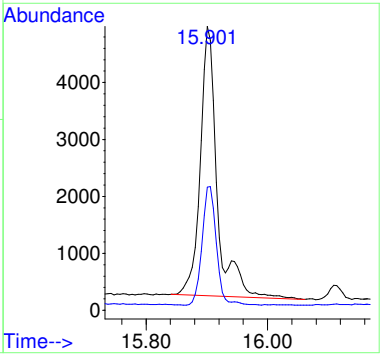


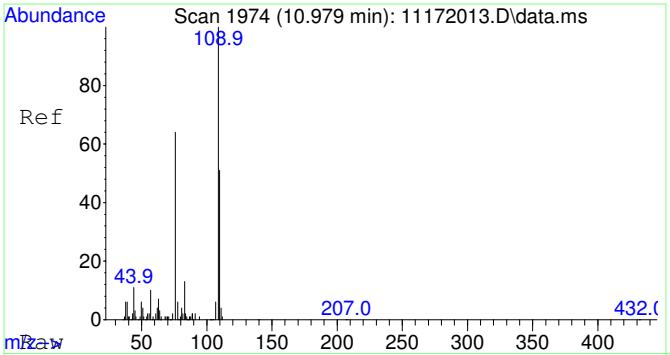


#23
1,2,4-Trimethylbenzene
Concen: 53.76 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion:105 Resp: 9139

Ion	Ratio	Lower	Upper
105	100		
120	37.2	17.2	77.2

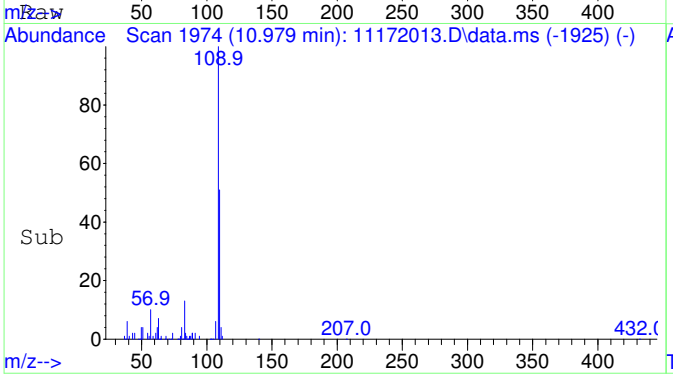


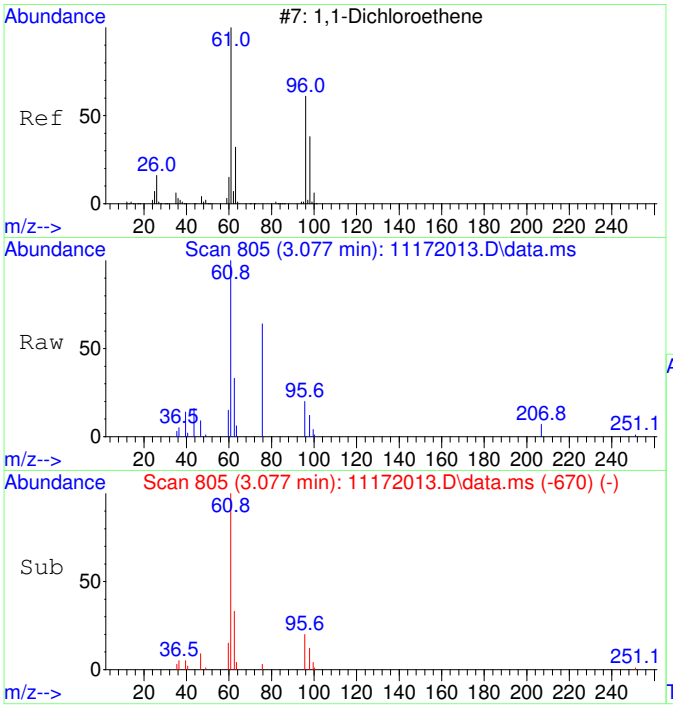


#25
2-Fluorotoluene SCAN
Concen: 4766.23 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion:109 Resp: 281615

Ion	Ratio	Lower	Upper
109	100		
83	16.1	0.0	43.8

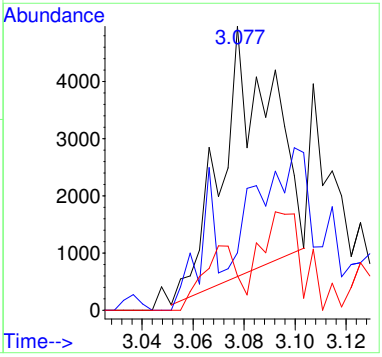


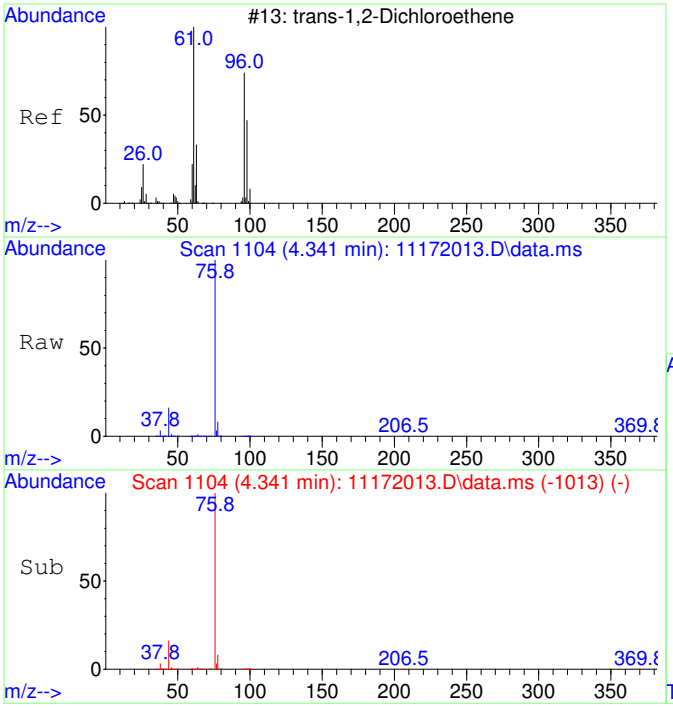


#26
1,1-Dichloroethene SCAN
Concen: 487.73 ug/L
RT: 3.077 min Scan# 805
Delta R.T. 0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 61 Resp: 6120

Ion	Ratio	Lower	Upper
61	100		
96	13.0	33.1	93.1#
98	14.0	11.2	71.2

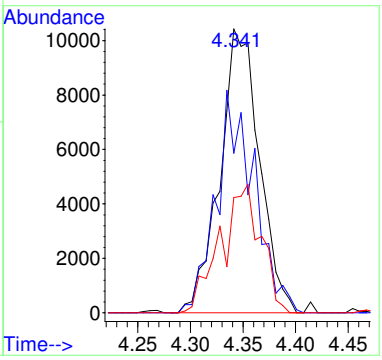


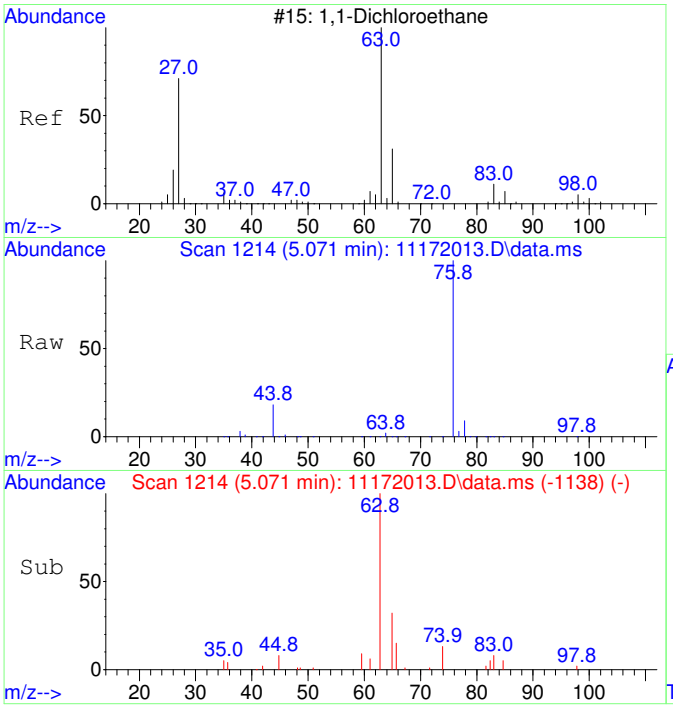


#27
trans-1,2-Dichloroethene SCAN
Concen: 1753.94 ug/L
RT: 4.341 min Scan# 1104
Delta R.T. -0.007 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 61 Resp: 27234

Ion	Ratio	Lower	Upper
61	100		
96	75.2	49.0	109.0
98	46.2	20.5	80.5

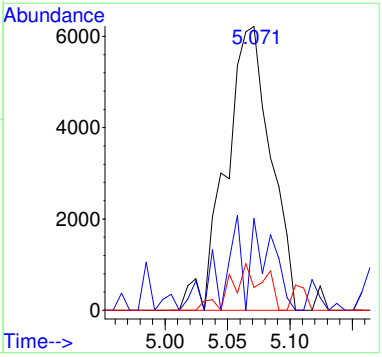


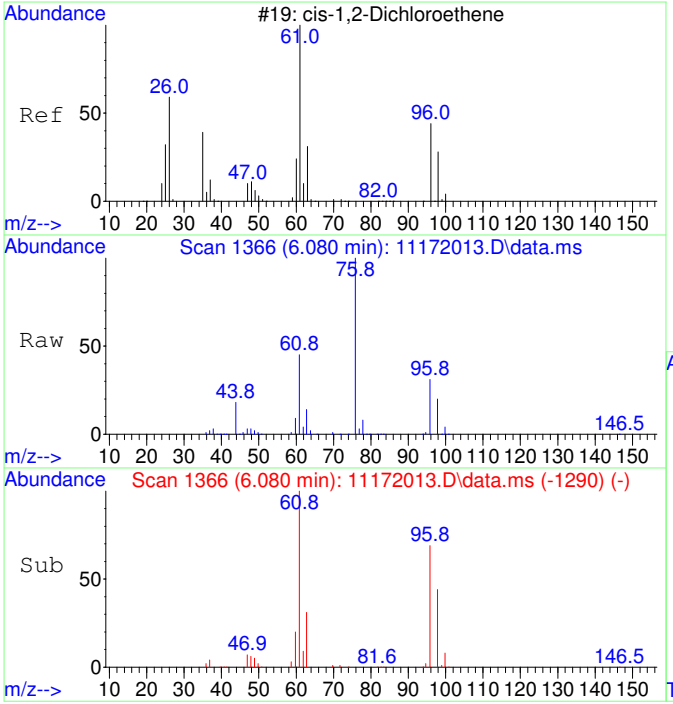


#28
1,1-Dichloroethane SCAN
Concen: 863.89 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 63 Resp: 15524

Ion	Ratio	Lower	Upper
63	100		
65	15.1	1.3	61.3
83	11.8	0.0	45.9

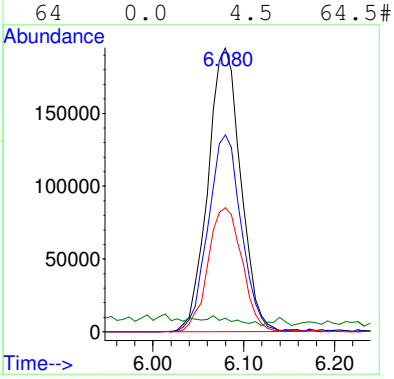


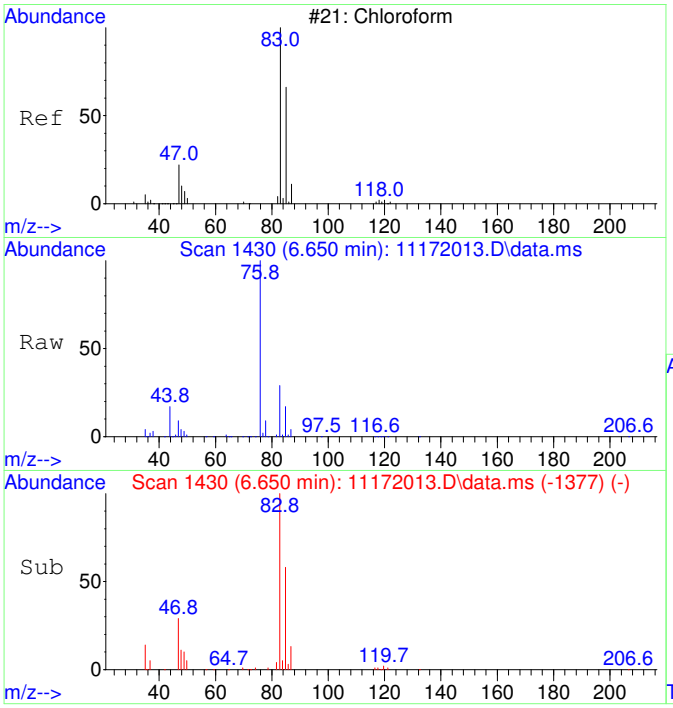


#29
cis-1,2-Dichloroethene SCAN
Concen: 25433.44 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.007 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 61 Resp: 489670

Ion	Ratio	Lower	Upper
61	100		
96	69.7	39.9	99.9
98	45.3	13.5	73.5
64	0.0	4.5	64.5#

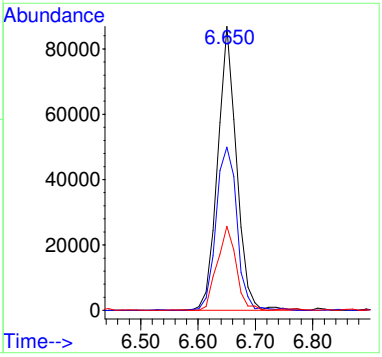


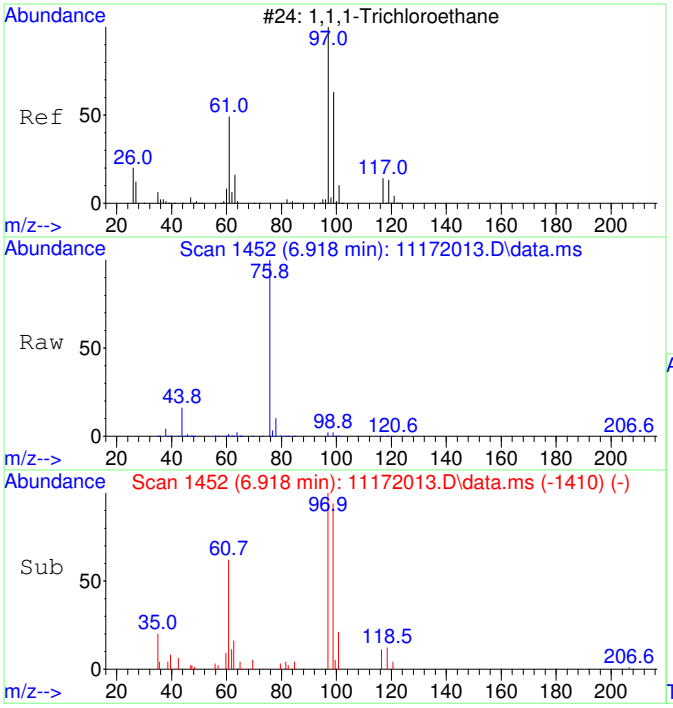


#30
Chloroform SCAN
Concen: 9521.20 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. 0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 83 Resp: 198827

Ion	Ratio	Lower	Upper
83	100		
85	63.9	34.6	94.6
47	29.7	0.0	53.4

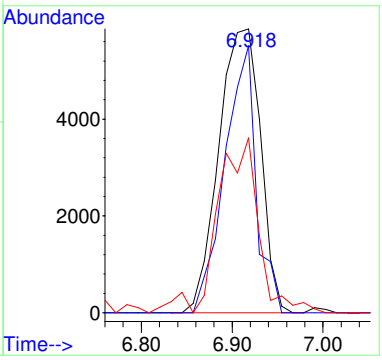


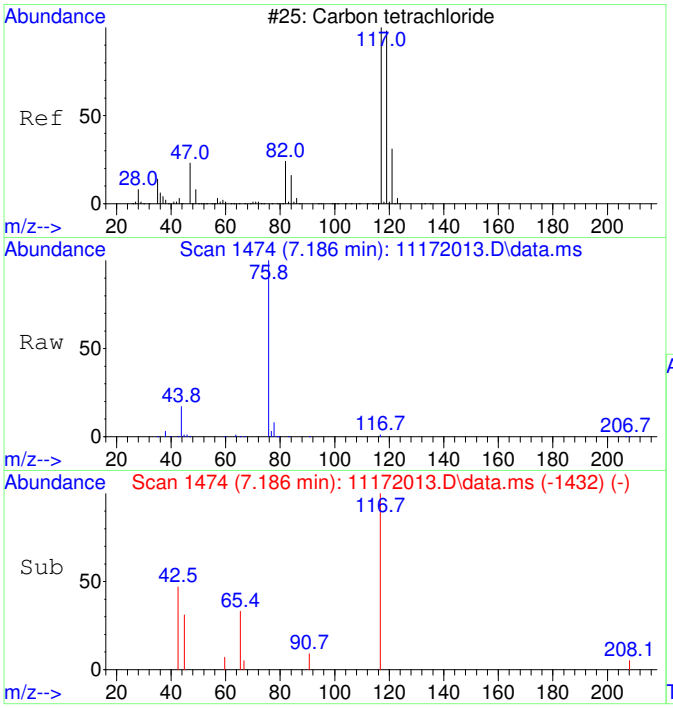


#31
1,1,1-Trichloroethane SCAN
Concen: 990.18 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 97 Resp: 18843

Ion	Ratio	Lower	Upper
97	100		
99	70.4	43.6	103.6
61	60.5	18.0	78.0

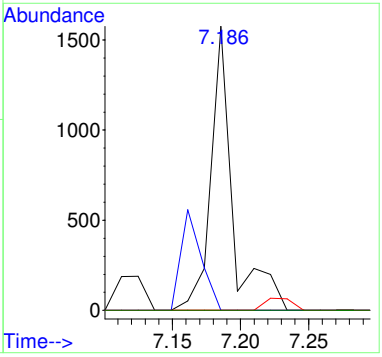


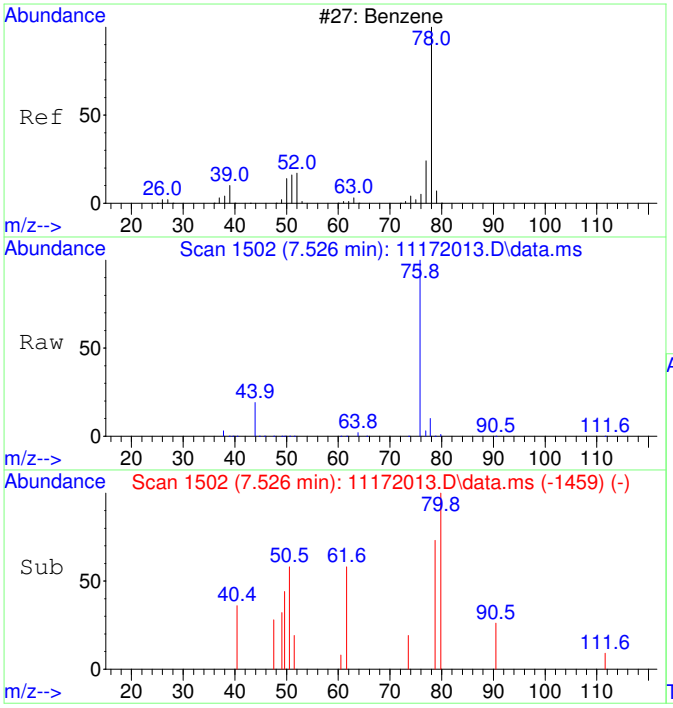


#32
Carbon tetrachloride SCAN
Concen: 88.16 ug/L
RT: 7.186 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion:117 Resp: 1750

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

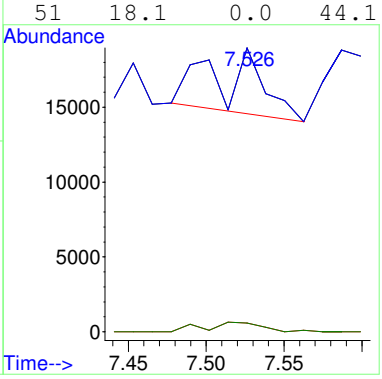


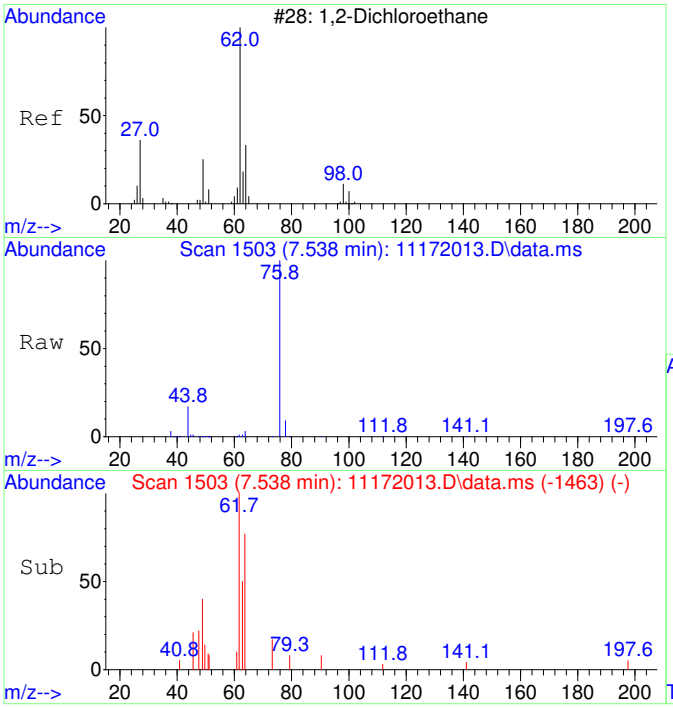


#33
Benzene SCAN
Concen: 174.74 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. 0.024 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 78 Resp: 9156

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	18.1	0.0	47.9
51	18.1	0.0	44.1

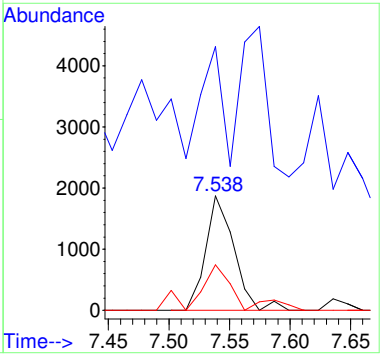


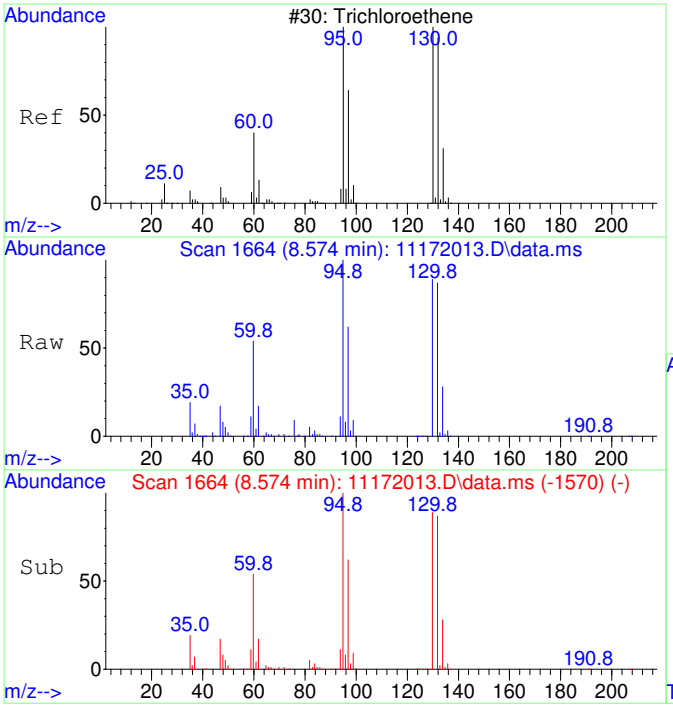


#34
1,2-Dichloroethane SCAN
Concen: 158.26 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 62 Resp: 3062

Ion	Ratio	Lower	Upper
62	100		
64	70.2	5.2	65.2#
49	52.6	3.9	63.9

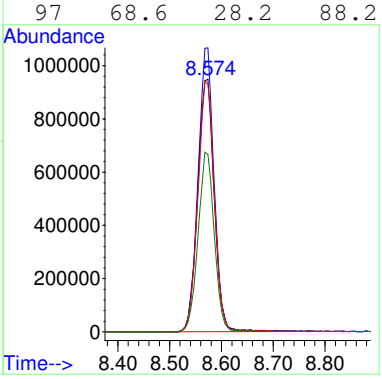


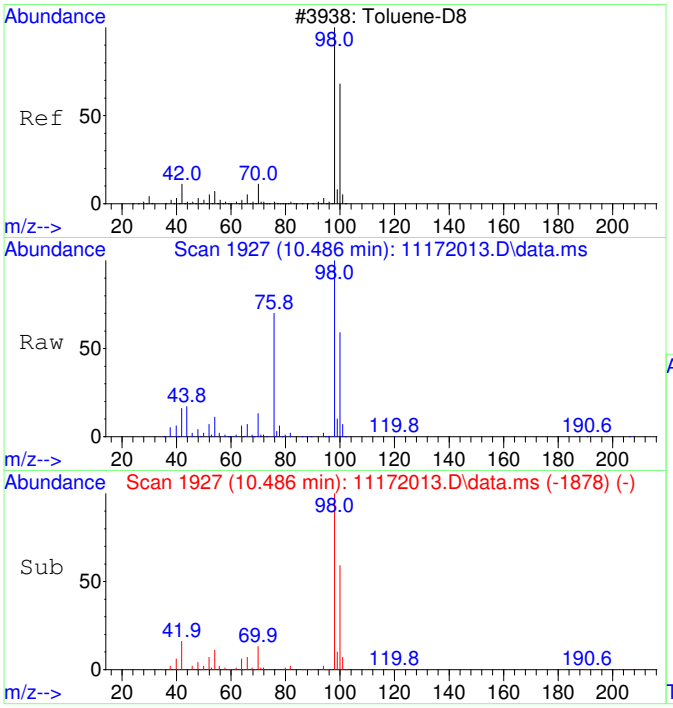


#35
Trichloroethene SCAN
Concen: 146982.86 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion:130 Resp: 2116388

Ion	Ratio	Lower	Upper
130	100		
95	108.1	60.5	120.5
132	97.2	59.6	119.6
97	68.6	28.2	88.2

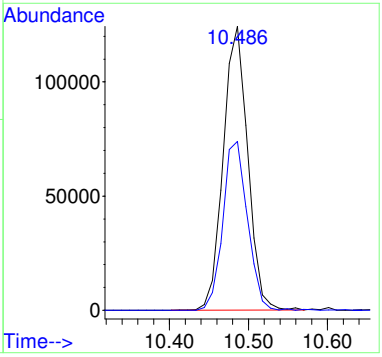


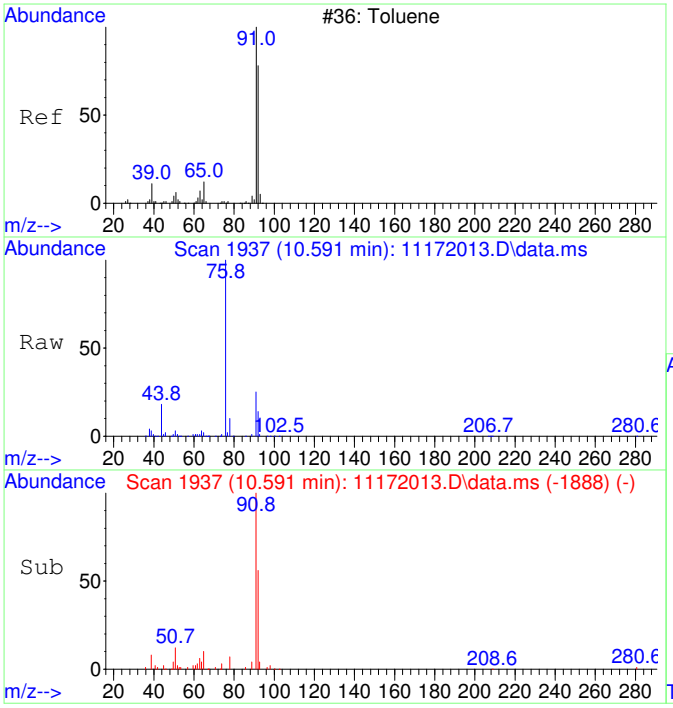


#36
Toluene-d8 SCAN
Concen: 4629.60 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 98 Resp: 267516

Ion	Ratio	Lower	Upper
98	100		
100	59.9	40.0	100.0

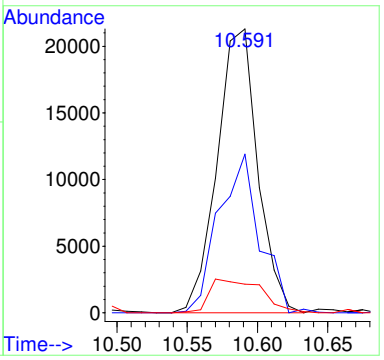


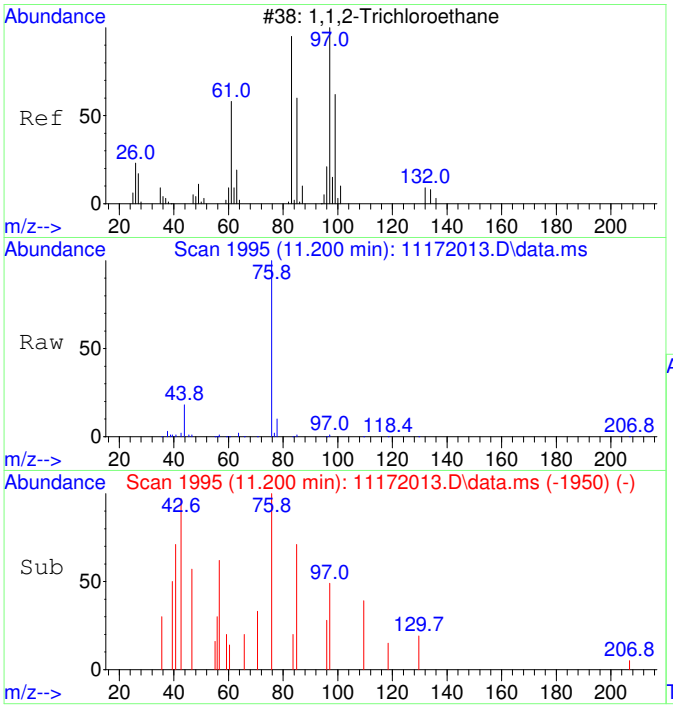


#37
Toluene SCAN
Concen: 582.44 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 91 Resp: 43101

Ion	Ratio	Lower	Upper
91	100		
92	56.7	28.3	88.3
65	0.0	0.0	41.0

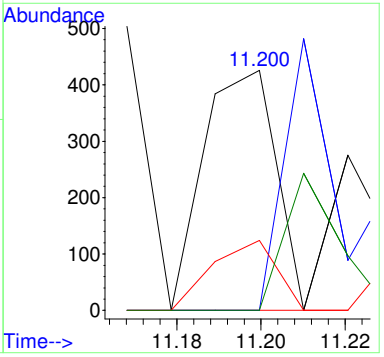


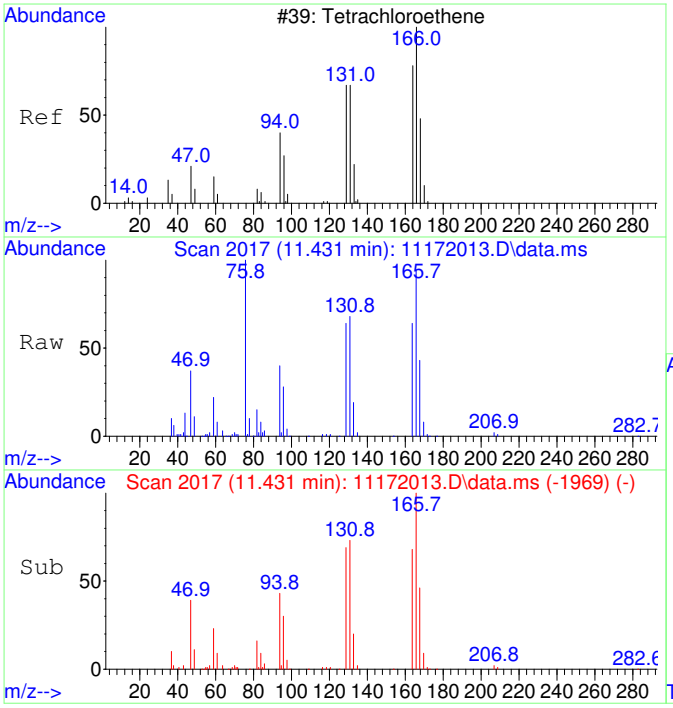


#38
1,1,2-Trichloroethane SCAN
Concen: 30.70 ug/L
RT: 11.200 min Scan# 1995
Delta R.T. -0.032 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 97 Resp: 510

Ion	Ratio	Lower	Upper
97	100		
83	98.6	57.7	117.7
61	26.1	32.1	92.1#
99	42.0	36.7	96.7

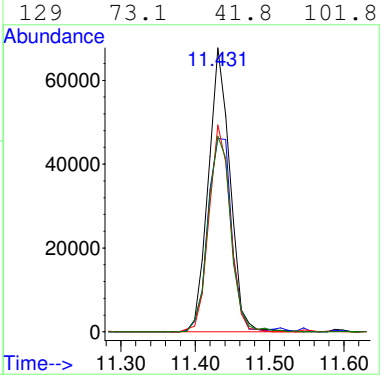


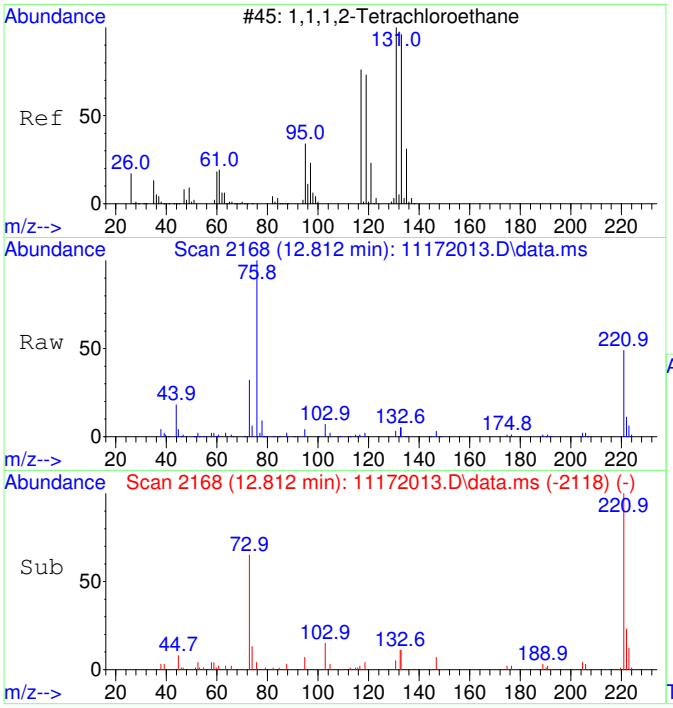


#39
Tetrachloroethene SCAN
Concen: 7689.08 ug/L
RT: 11.431 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion:166 Resp: 136700

Ion	Ratio	Lower	Upper
166	100		
164	74.6	50.9	110.9
131	71.7	38.7	98.7
129	73.1	41.8	101.8

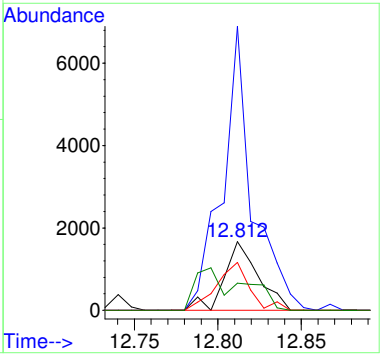


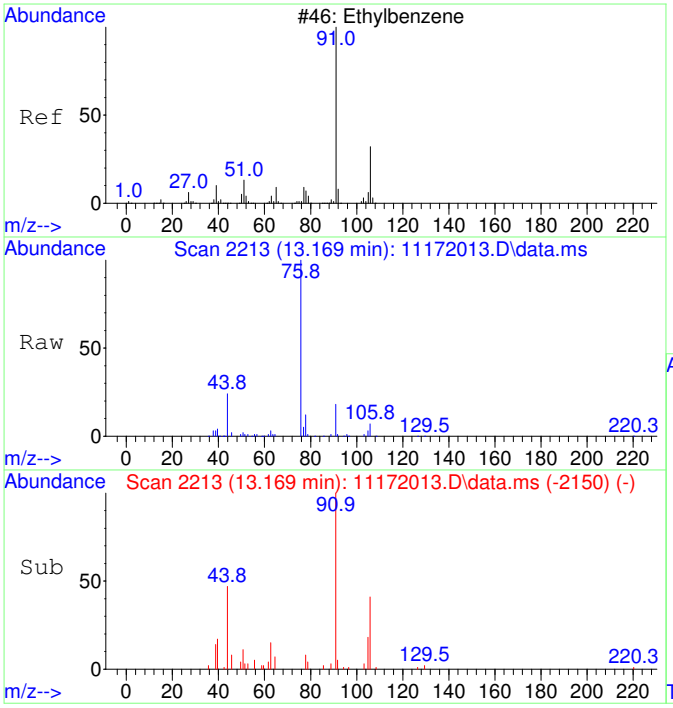


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 125.95 ug/L
RT: 12.812 min Scan# 2168
Delta R.T. -0.103 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion:131 Resp: 2357

Ion	Ratio	Lower	Upper
131	100		
133	367.3	66.9	126.9#
119	68.4	40.4	100.4
117	86.2	35.1	95.1

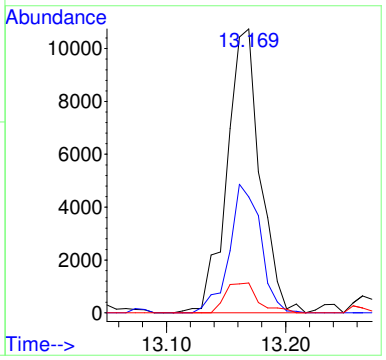


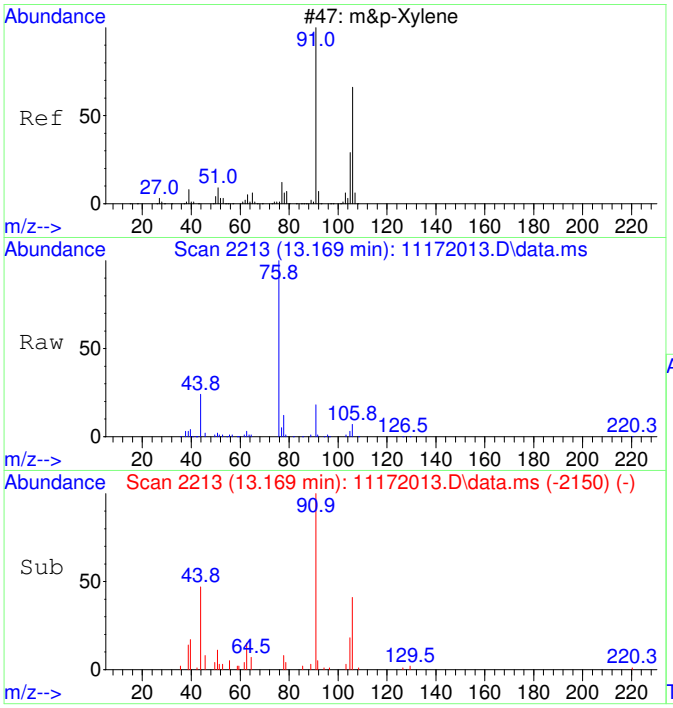


#42
Ethylbenzene SCAN
Concen: 154.38 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 91 Resp: 20813

Ion	Ratio	Lower	Upper
91	100		
106	42.5	23.1	83.1
51	10.5	0.0	40.1

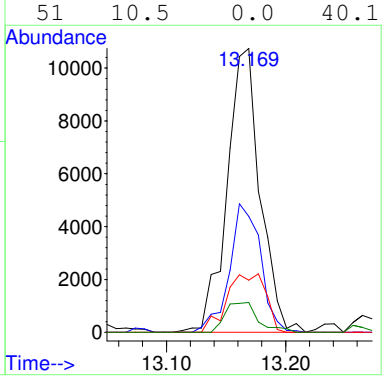


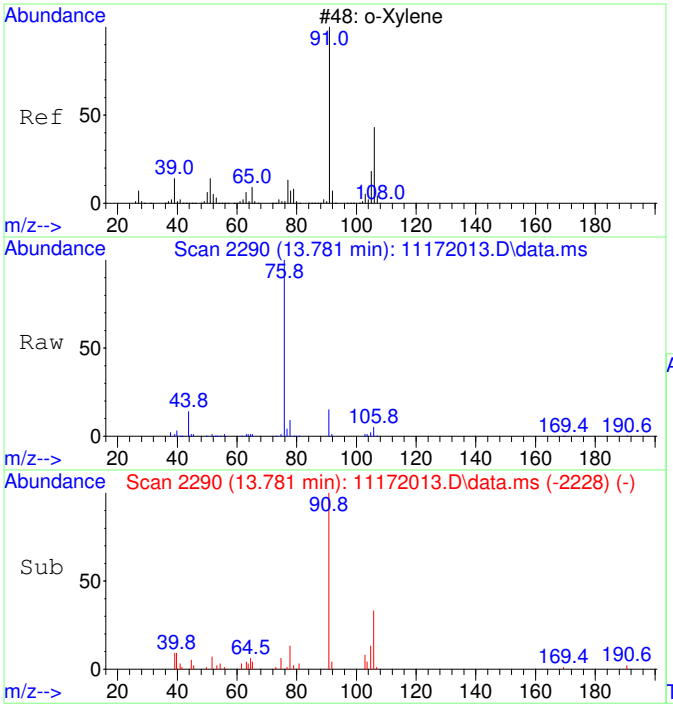


#43
m&p-Xylene SCAN
Concen: 154.38 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 91 Resp: 20813

Ion	Ratio	Lower	Upper
91	100		
106	42.5	23.1	83.1
105	24.3	0.0	54.7
51	10.5	0.0	40.1

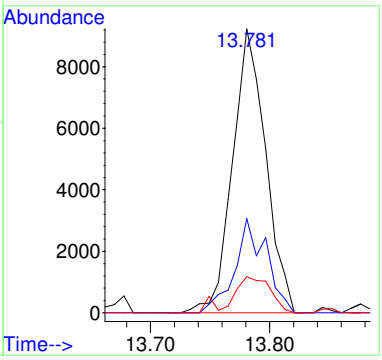


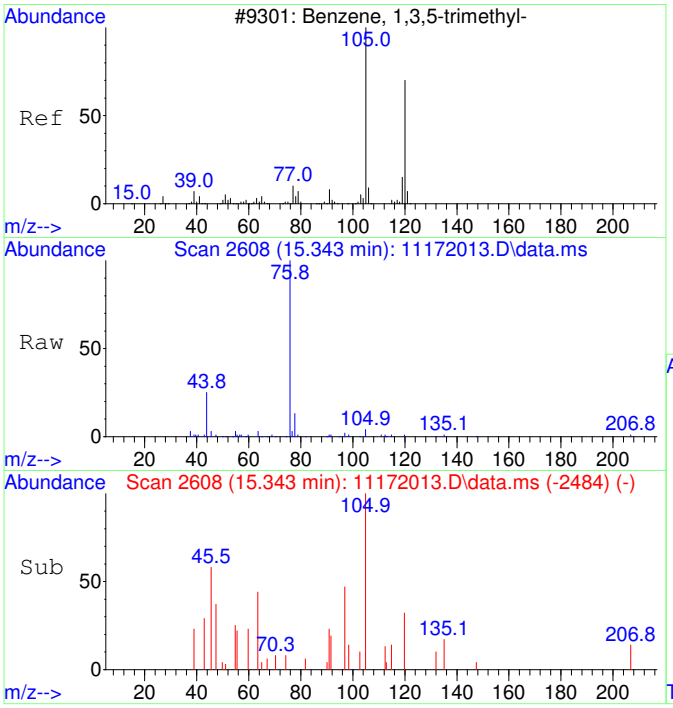


#44
o-Xylene SCAN
Concen: 247.02 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion: 91 Resp: 17826

Ion	Ratio	Lower	Upper
91	100		
106	31.6	18.0	78.0
105	12.3	0.0	56.6

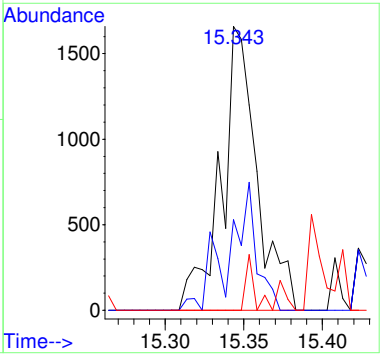


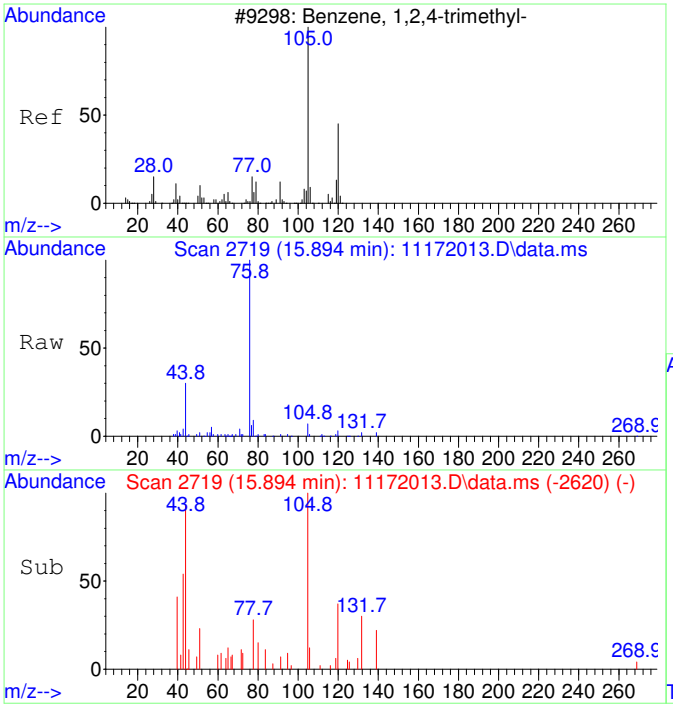


#46
1,3,5-Trimethylbenzene SCAN
Concen: 34.24 ug/L
RT: 15.343 min Scan# 2608
Delta R.T. -0.000 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion:105 Resp: 2604

Ion	Ratio	Lower	Upper
105	100		
120	21.9	18.3	78.3
119	4.7	0.0	43.1

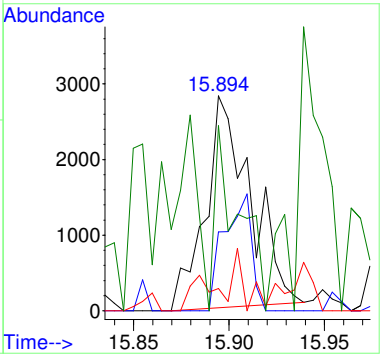




#47
1,2,4-Trimethylbenzene SCAN
Concen: 59.12 ug/L
RT: 15.894 min Scan# 2719
Delta R.T. -0.010 min
Lab File: 11172013.D
Acq: 17 Nov 2020 12:38

Tgt Ion:105 Resp: 4601

Ion	Ratio	Lower	Upper
105	100		
120	33.7	16.9	76.9
119	4.5	0.0	41.9
77	47.0	0.0	42.3#



2011017-03

Quantitation Report (Not Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172014.D
Acq On : 17 Nov 2020 13:02
InstName : AG5975C
Operator : TD
Sample : 2011017-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Before Manual Integration

Quant Time: Nov 17 13:20:56 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

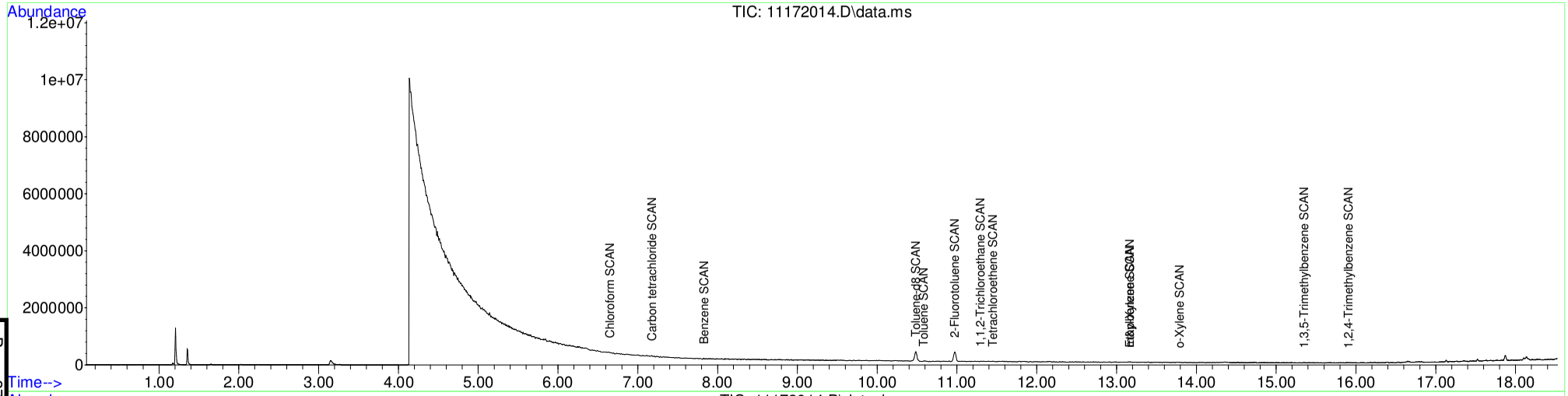
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	582089	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	502203	4407.22	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.14%			
Target Compounds						Qvalue
6] Chloroform	6.639	83	29420	814.56	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1031	26.28	ug/L	97
8] Carbon tetrachloride	7.175	117	1199	32.48	ug/L	93
9] Benzene	7.503	78	10055	101.67	ug/L #	28
11] Trichloroethene	8.575	130	1270	42.65	ug/L #	52
13] Toluene	10.582	91	17911	123.29	ug/L	98
15] Tetrachloroethene	11.432	166	5722	136.10	ug/L	99
18] Ethylbenzene	12.972	91	5498	31.09	ug/L	93
19] m&p-Xylene	13.162	91	14726	106.55	ug/L	94
20] o-Xylene	13.782	91	5663	38.35	ug/L	98
23] 1,2,4-Trimethylbenzene	15.901	105	11245	68.89	ug/L	89
25) 2-Fluorotoluene SCAN	10.969	109	280697	4946.82	ug/L	98
30) Chloroform SCAN	6.650	83	14604	728.21	ug/L	84
32) Carbon tetrachloride SCAN	7.173	117	863	45.27	ug/L #	30
33) Benzene SCAN	7.828	78	18514	367.93	ug/L	92
36) Toluene-d8 SCAN	10.486	98	252484	4549.85	ug/L	99
37) Toluene SCAN	10.580	91	9262	130.33	ug/L #	30
38) 1,1,2-Trichloroethane ...	11.294	97	542	33.98	ug/L #	48
39) Tetrachloroethene SCAN	11.441	166	2516	147.36	ug/L #	35
42) Ethylbenzene SCAN	13.161	91	7432	57.40	ug/L	92
43) m&p-Xylene SCAN	13.161	91	7432	57.40	ug/L	89
44) o-Xylene SCAN	13.789	91	3620	52.23	ug/L	68
46) 1,3,5-Trimethylbenzene...	15.348	105	1860	25.47	ug/L	75
47) 1,2,4-Trimethylbenzene...	15.904	105	5627	75.29	ug/L #	69

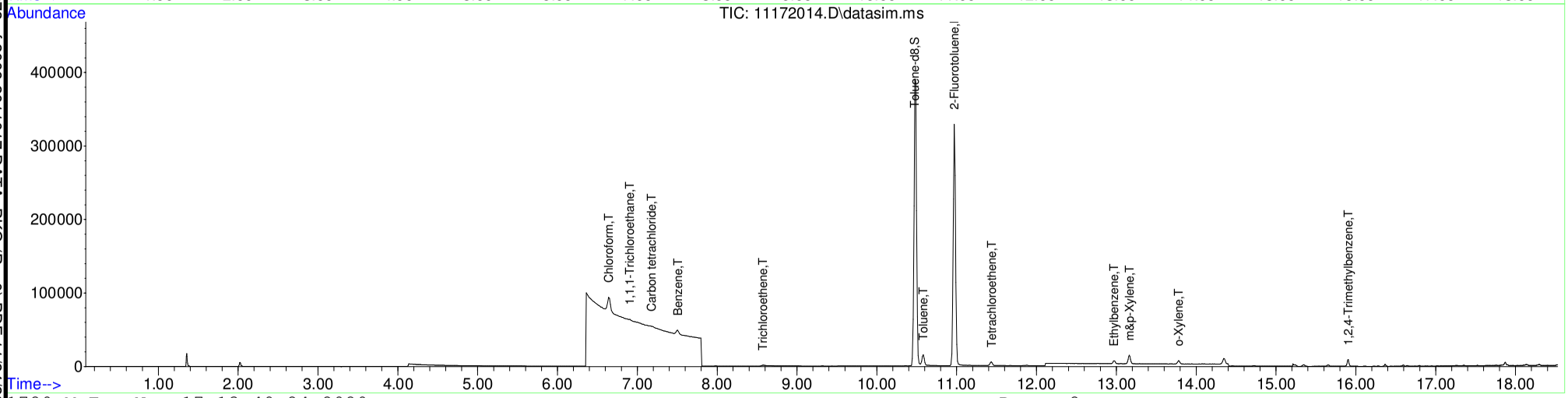
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172014.D
Acq On : 17 Nov 2020 13:02
InstName : AG5975C
Operator : TD
Sample : 2011017-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 17 13:20:56 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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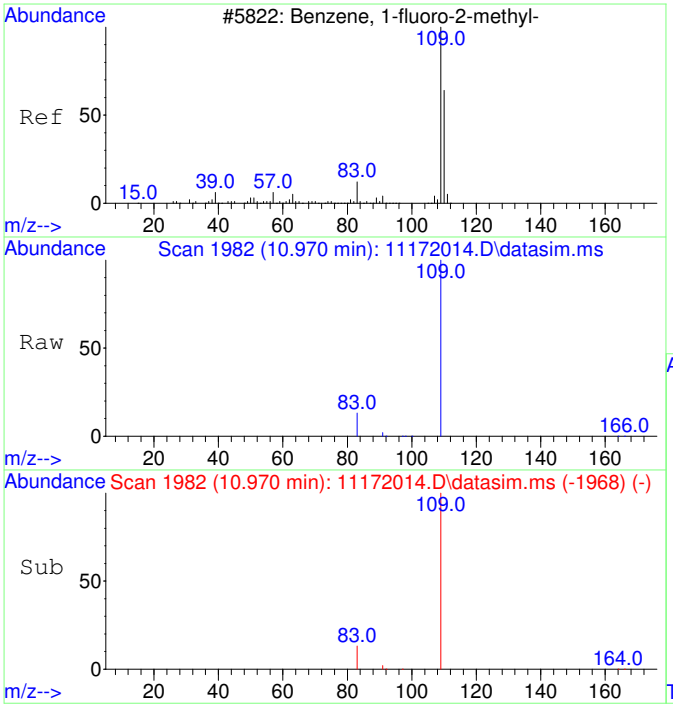
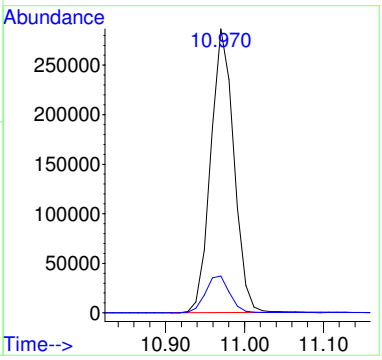
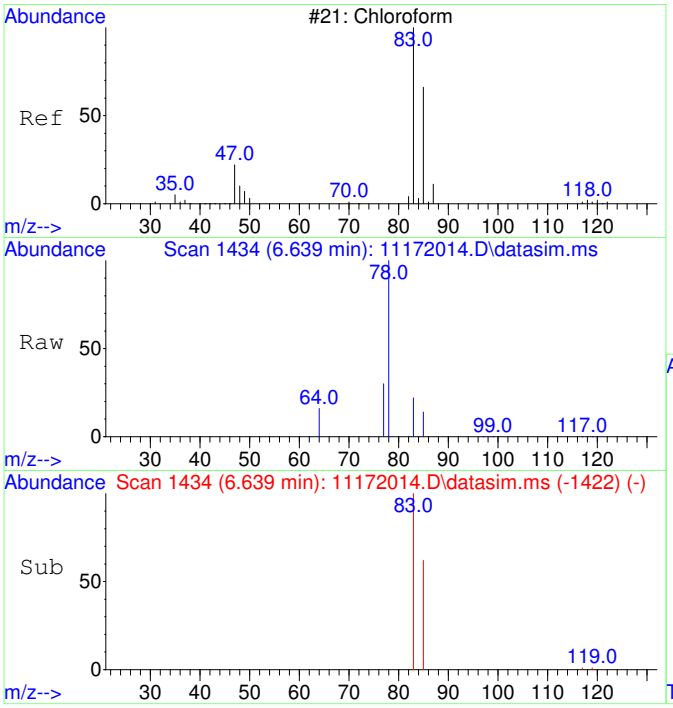


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:109 Resp: 582089

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

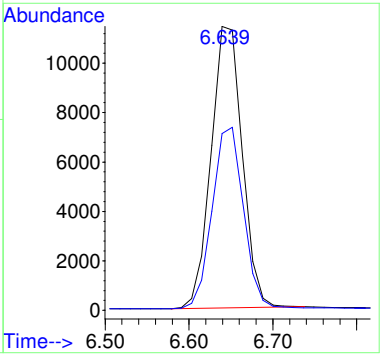


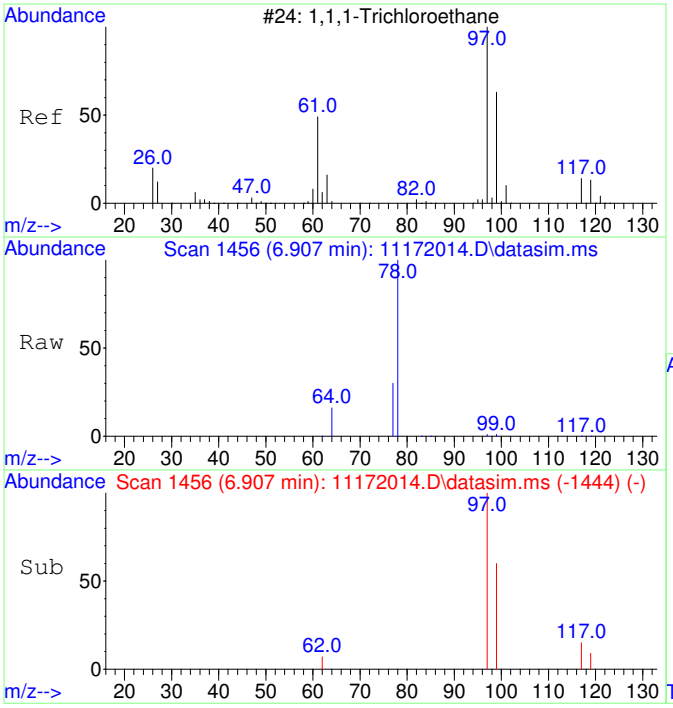


#6
Chloroform
Concen: 814.56 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 83 Resp: 29420

Ion	Ratio	Lower	Upper
83	100		
85	64.4	35.1	95.1

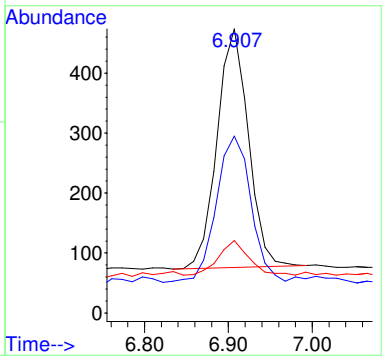


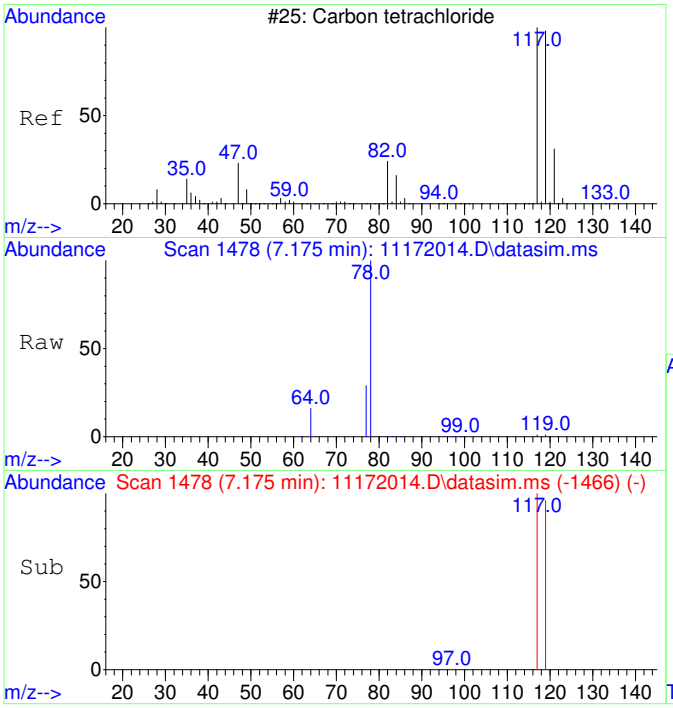


#7
1,1,1-Trichloroethane
Concen: 26.28 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 97 Resp: 1031

Ion	Ratio	Lower	Upper
97	100		
99	67.1	34.6	94.6
117	13.9	0.0	43.2

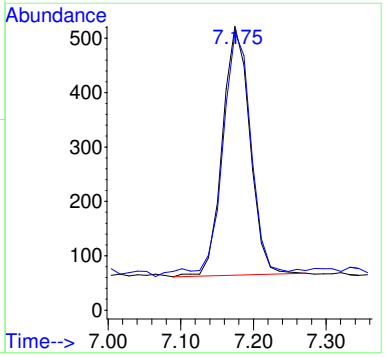


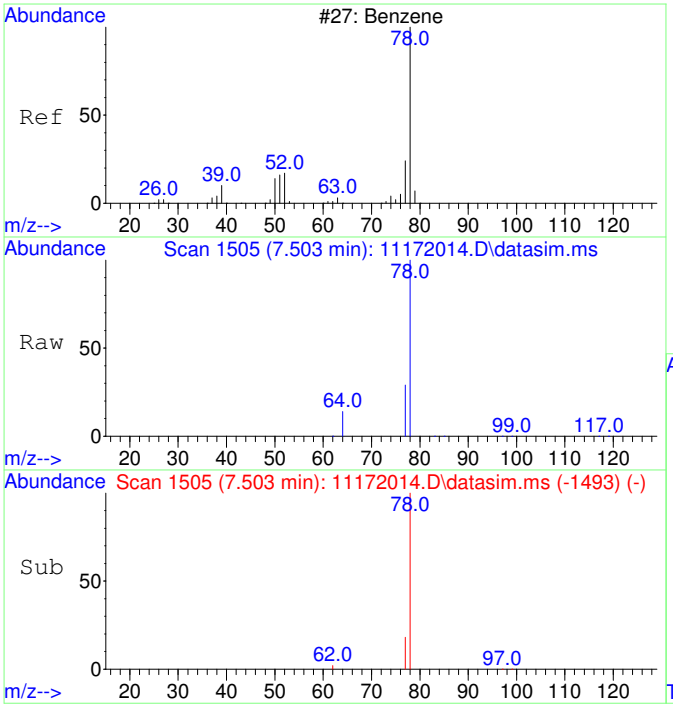


#8
Carbon tetrachloride
Concen: 32.48 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:117 Resp: 1199

Ion	Ratio	Lower	Upper
117	100		
119	103.6	66.4	126.4

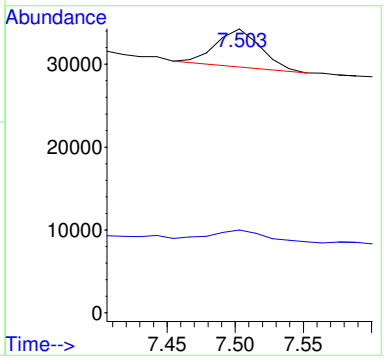


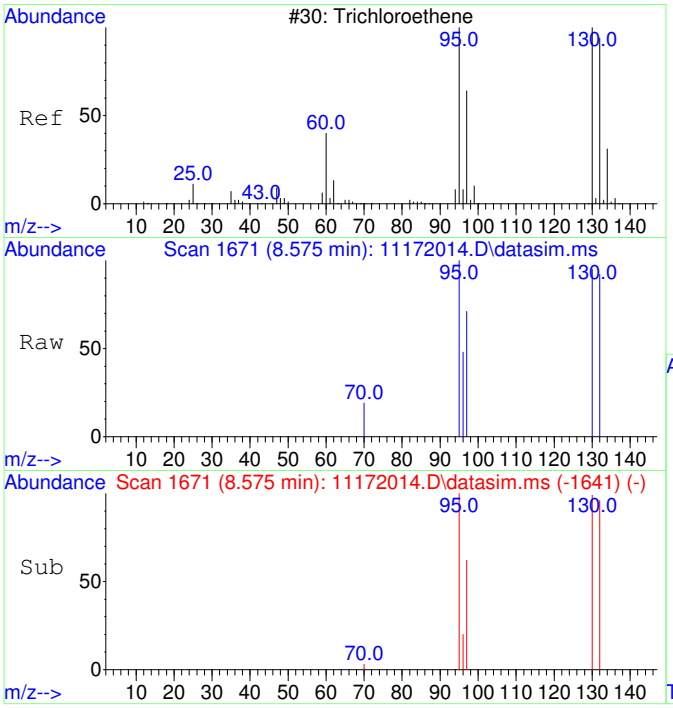


#9
Benzene
Concen: 101.67 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 78 Resp: 10055

Ion	Ratio	Lower	Upper
78	100		
77	58.3	0.0	53.2#



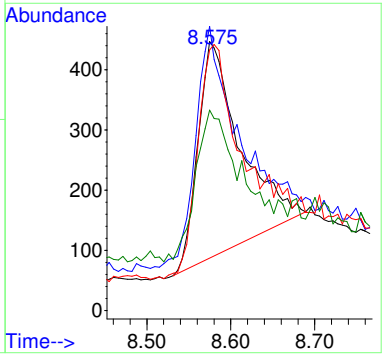


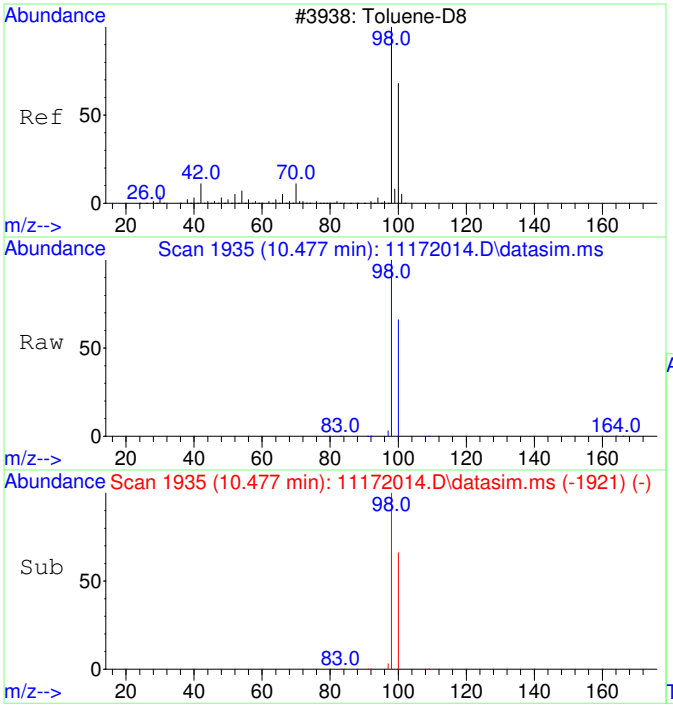
#11
Trichloroethene
Concen: 42.65 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:130 Resp: 1270

Ion	Ratio	Lower	Upper
130	100		
95	146.7	60.7	120.7#
132	143.5	76.0	116.0#
97	80.6	38.6	78.6#

Before MI:
IMPROPER
BASELINE

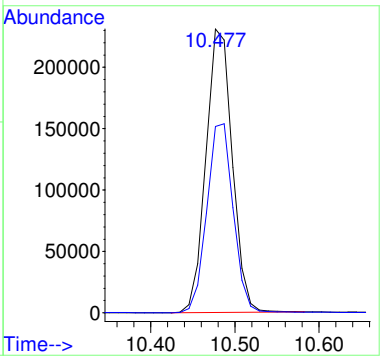


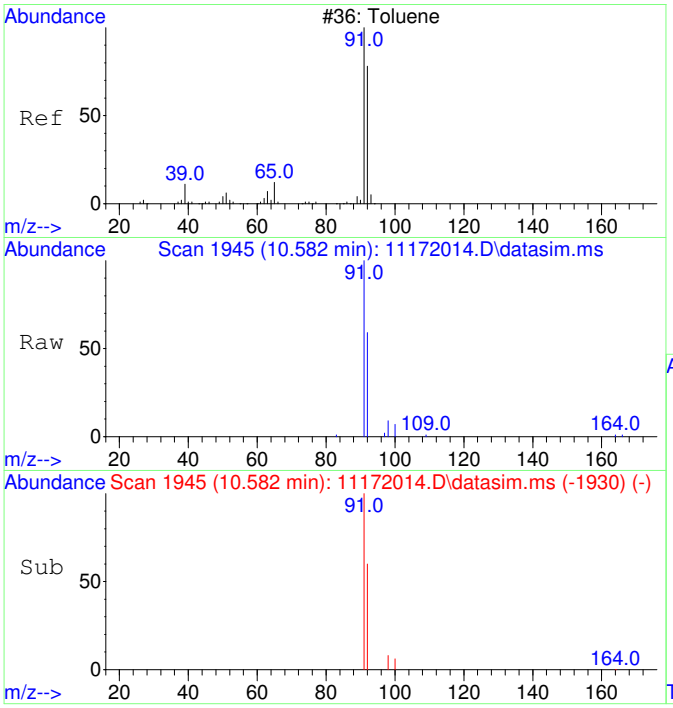


#12
Toluene-d8
Concen: 4407.22 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 98 Resp: 502203

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

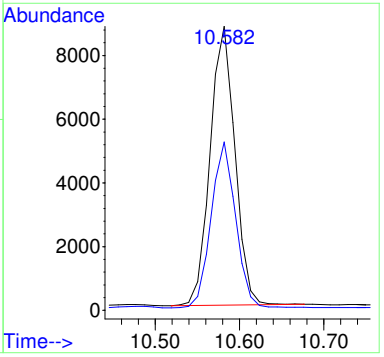


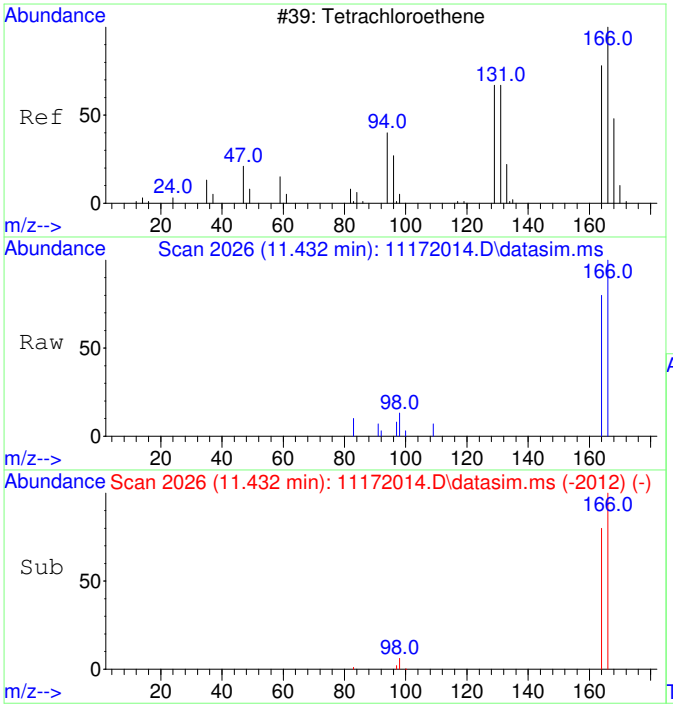


#13
Toluene
Concen: 123.29 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 17911

Ion	Ratio	Lower	Upper
91	100		
92	58.3	29.9	89.9

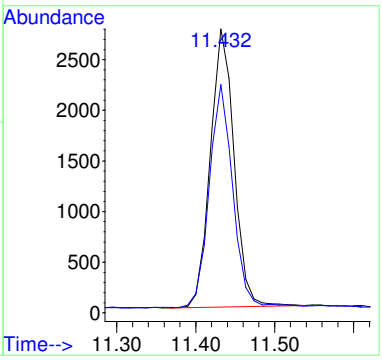


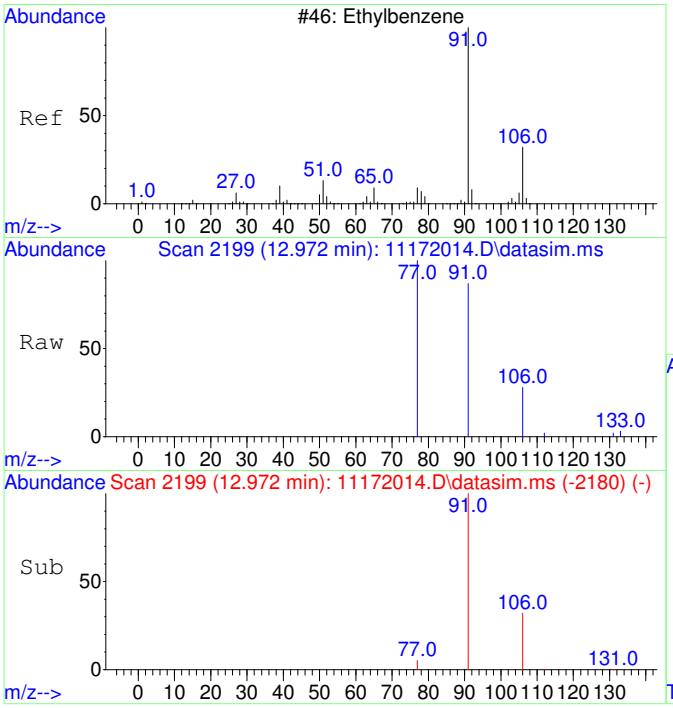


#15
Tetrachloroethene
Concen: 136.10 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:166 Resp: 5722

Ion	Ratio	Lower	Upper
166	100		
164	78.8	47.8	107.8

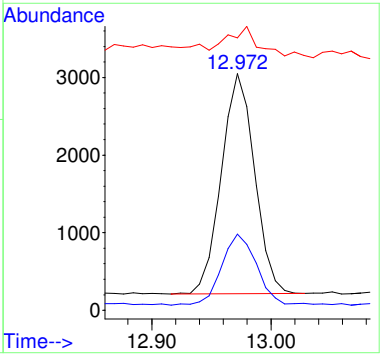


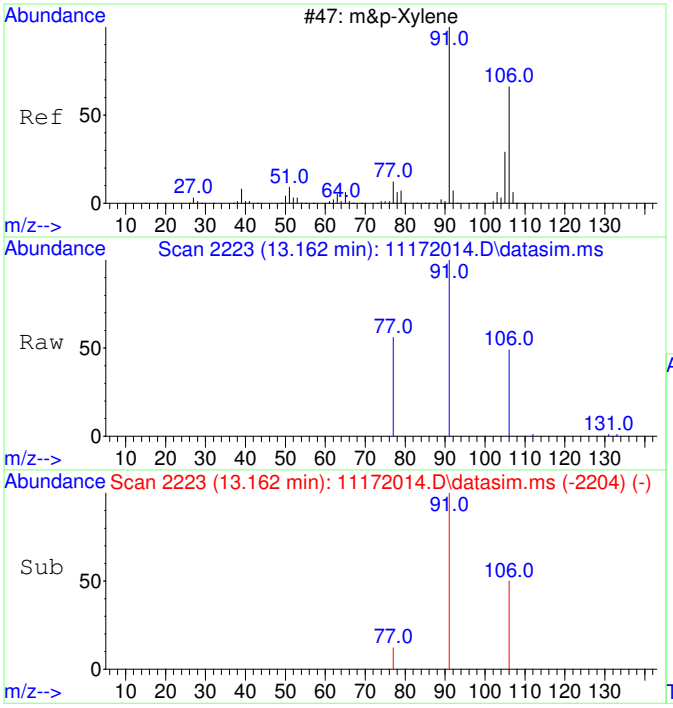


#18
Ethylbenzene
Concen: 31.09 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 5498

Ion	Ratio	Lower	Upper
91	100		
106	34.2	3.0	63.0
77	17.8	0.0	38.2

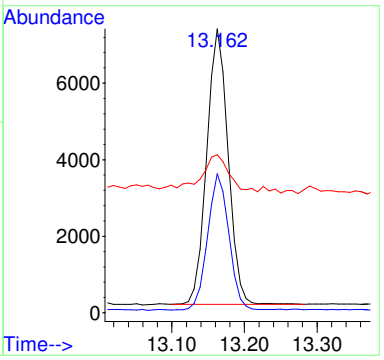


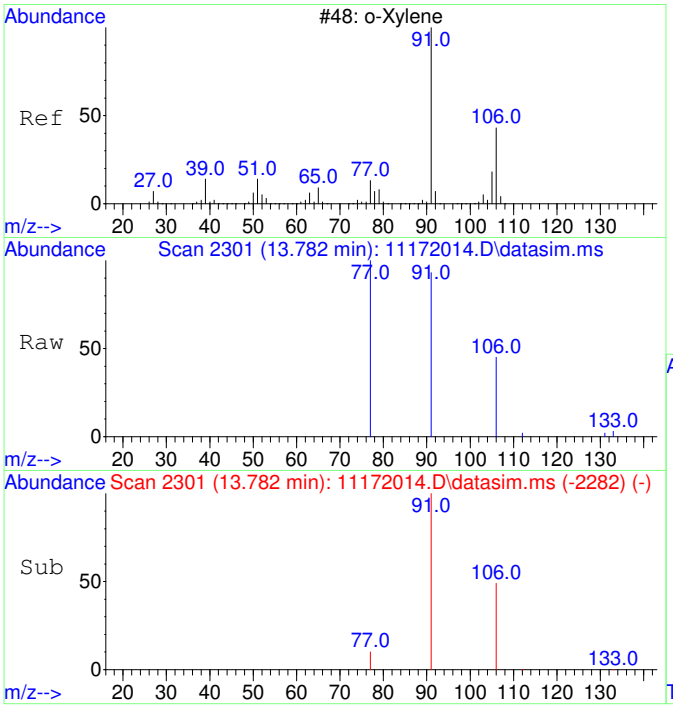


#19
m&p-Xylene
Concen: 106.55 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 14726

Ion	Ratio	Lower	Upper
91	100		
106	48.9	22.2	82.2
77	16.6	0.0	42.4

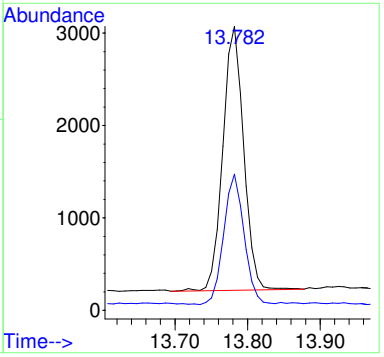


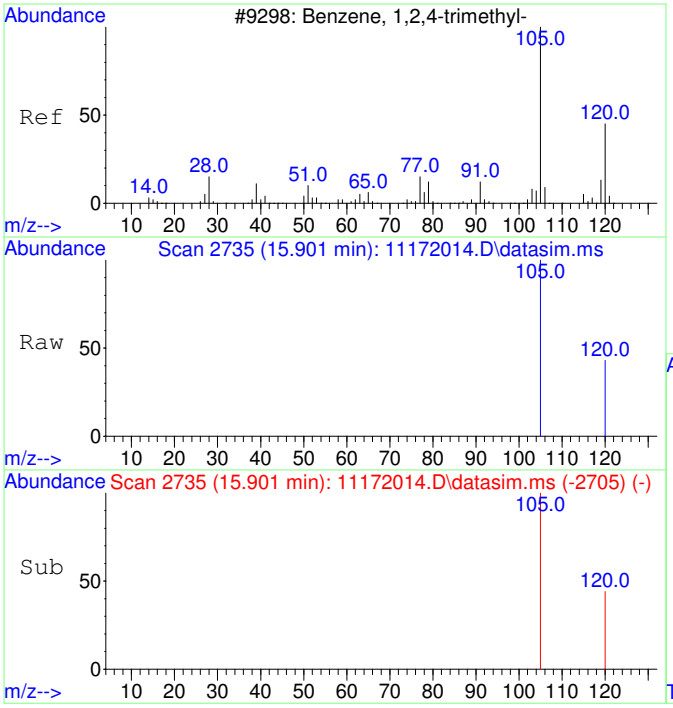


#20
o-Xylene
Concen: 38.35 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 5663

Ion	Ratio	Lower	Upper
91	100		
106	47.8	19.2	79.2

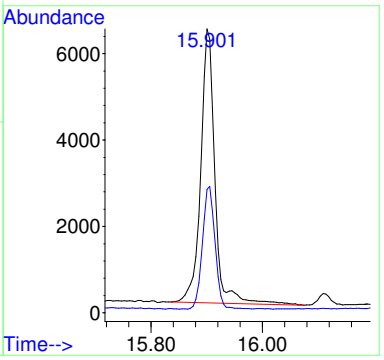


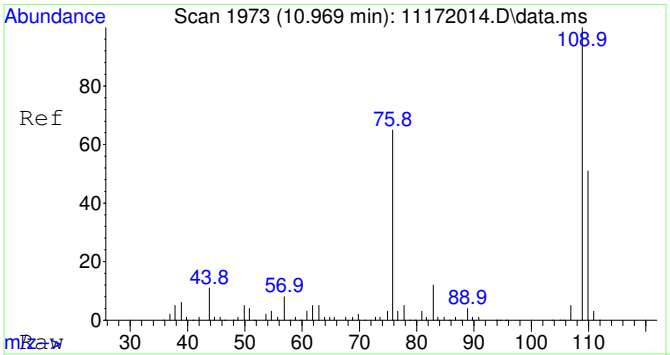


#23
1,2,4-Trimethylbenzene
Concen: 68.89 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:105 Resp: 11245

Ion	Ratio	Lower	Upper
105	100		
120	39.7	17.2	77.2

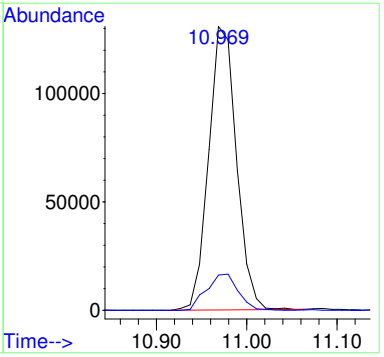


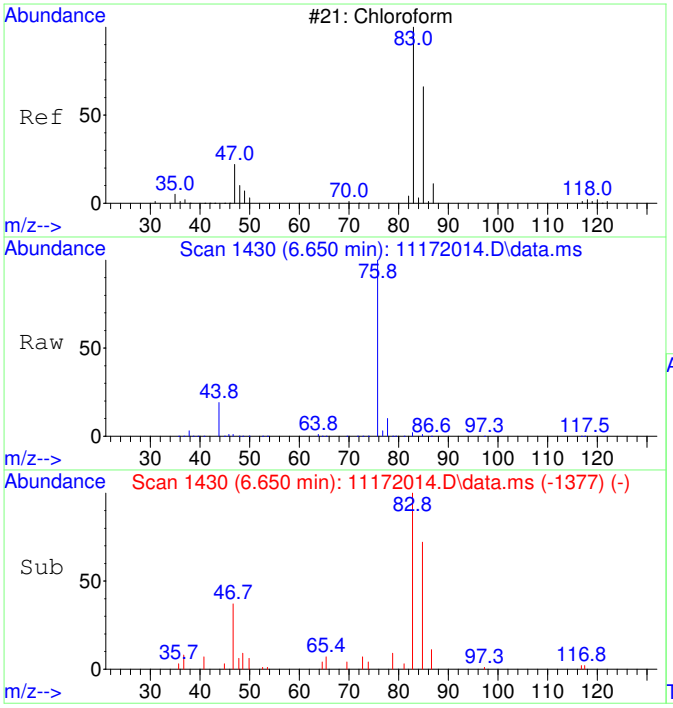


#25
2-Fluorotoluene SCAN
Concen: 4946.82 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:109 Resp: 280697

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	43.8

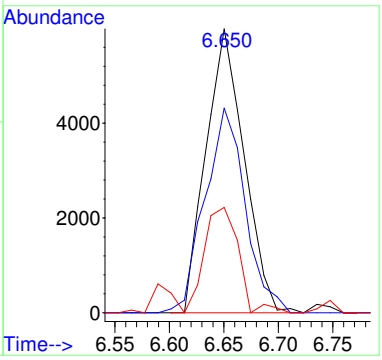


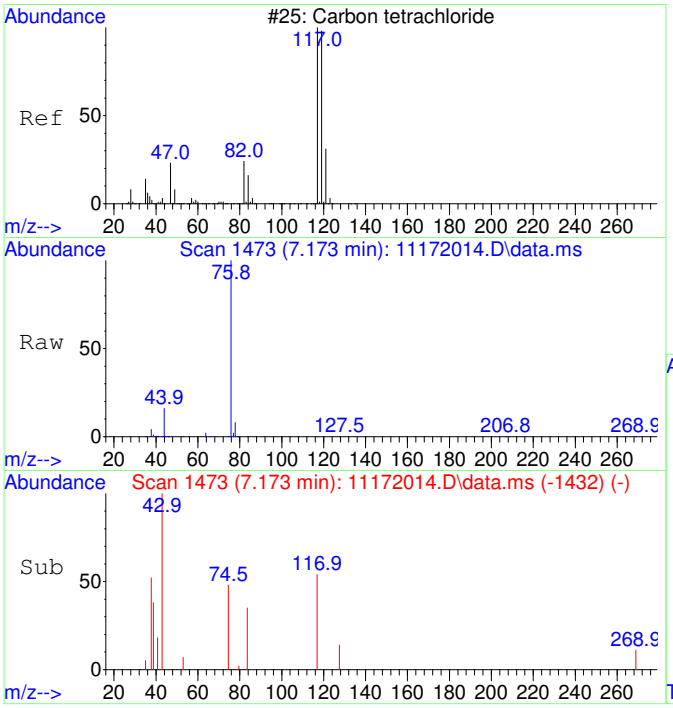


#30
Chloroform SCAN
Concen: 728.21 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 83 Resp: 14604

Ion	Ratio	Lower	Upper
83	100		
85	76.2	34.6	94.6
47	33.4	0.0	53.4

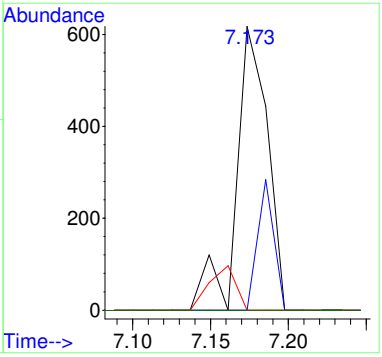


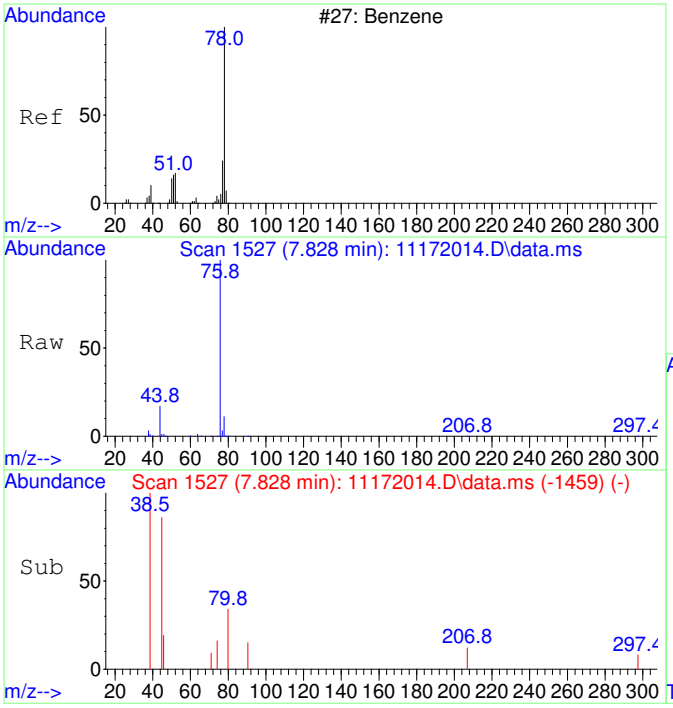


#32
Carbon tetrachloride SCAN
Concen: 45.27 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:117 Resp: 863

Ion	Ratio	Lower	Upper
117	100		
119	24.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

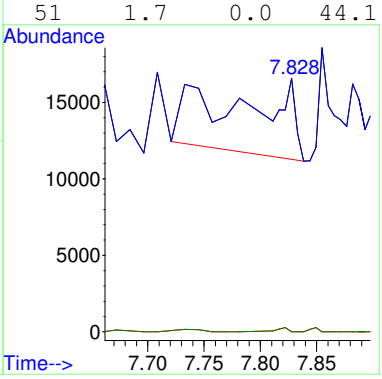


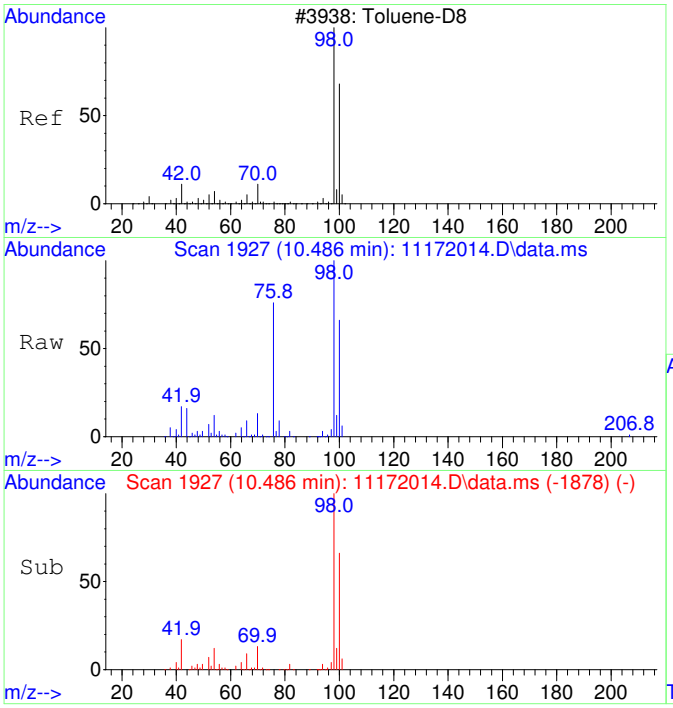


#33
Benzene SCAN
Concen: 367.93 ug/L
RT: 7.828 min Scan# 1527
Delta R.T. 0.326 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 78 Resp: 18514

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.7	0.0	47.9
51	1.7	0.0	44.1

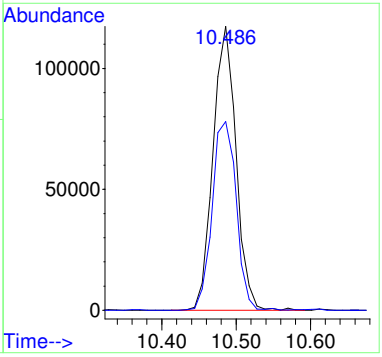


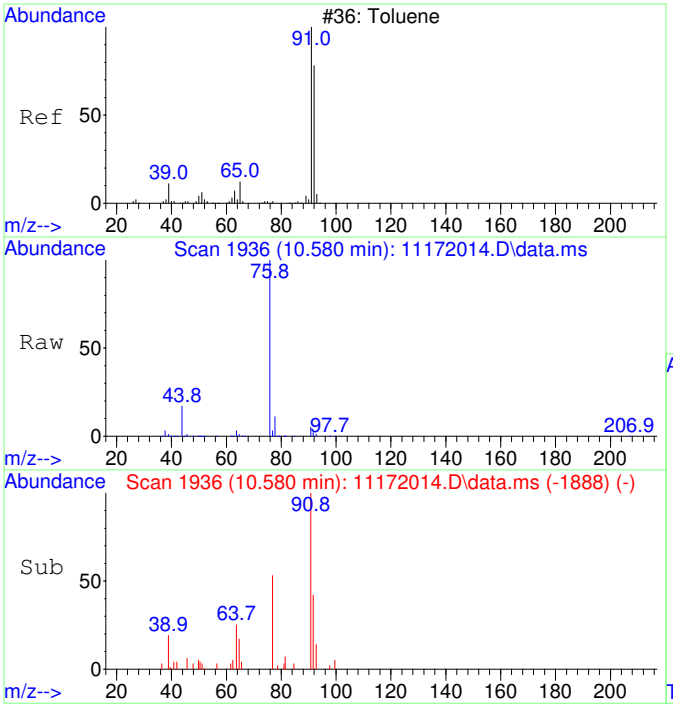


#36
Toluene-d8 SCAN
Concen: 4549.85 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 98 Resp: 252484

Ion	Ratio	Lower	Upper
98	100		
100	69.1	40.0	100.0

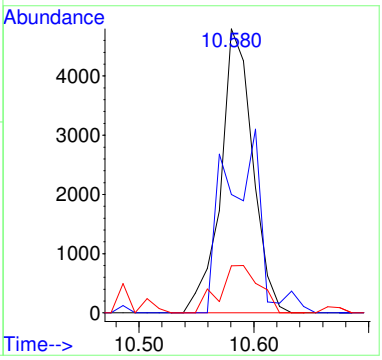


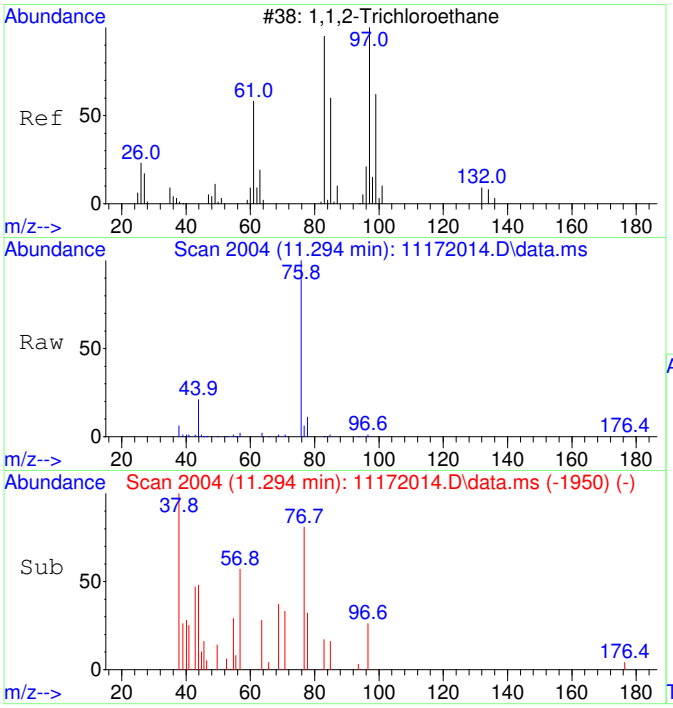


#37
Toluene SCAN
Concen: 130.33 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 9262

Ion	Ratio	Lower	Upper
91	100		
92	0.0	28.3	88.3#
65	20.9	0.0	41.0

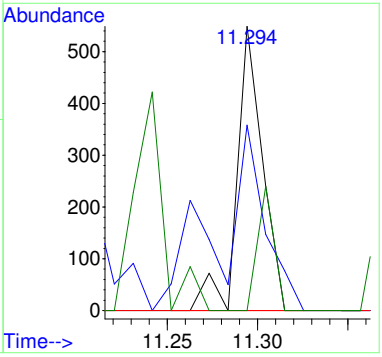


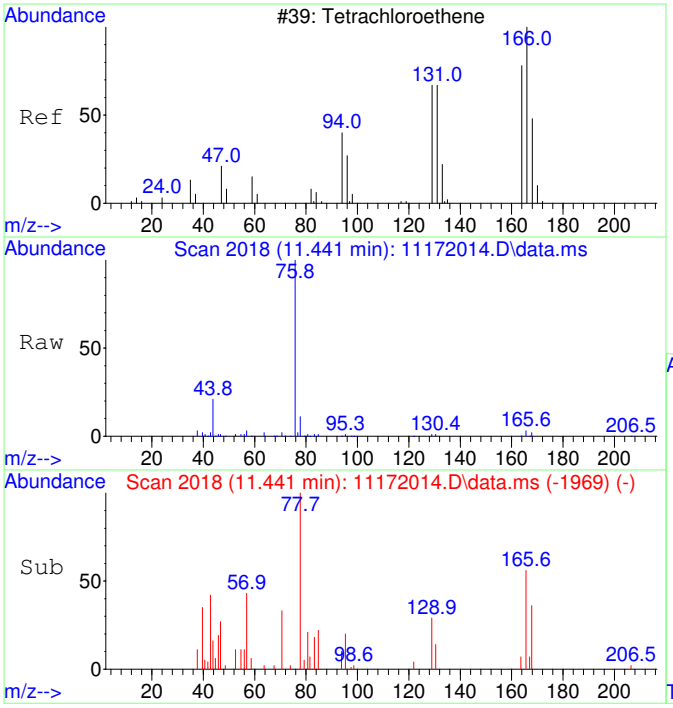


#38
1,1,2-Trichloroethane SCAN
Concen: 33.98 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. 0.063 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 97 Resp: 542

Ion	Ratio	Lower	Upper
97	100		
83	120.1	57.7	117.7#
61	0.0	32.1	92.1#
99	27.9	36.7	96.7#

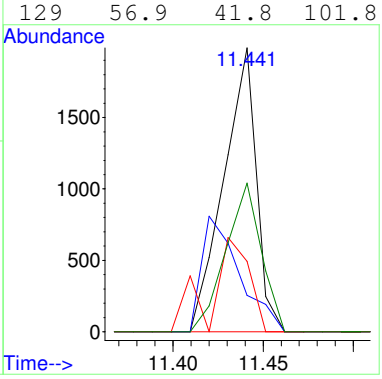


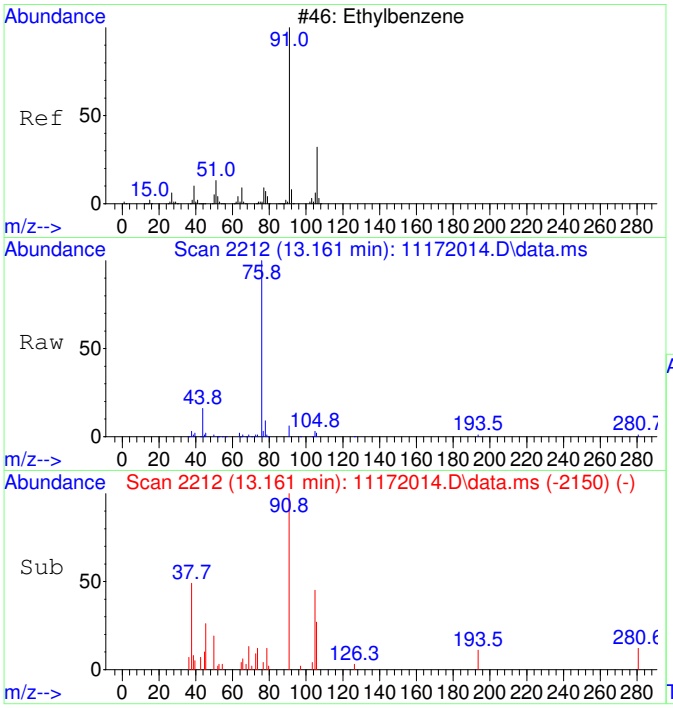


#39
Tetrachloroethene SCAN
Concen: 147.36 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:166 Resp: 2516

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	0.0	38.7	98.7#
129	56.9	41.8	101.8

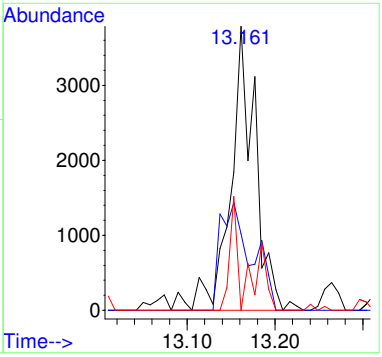


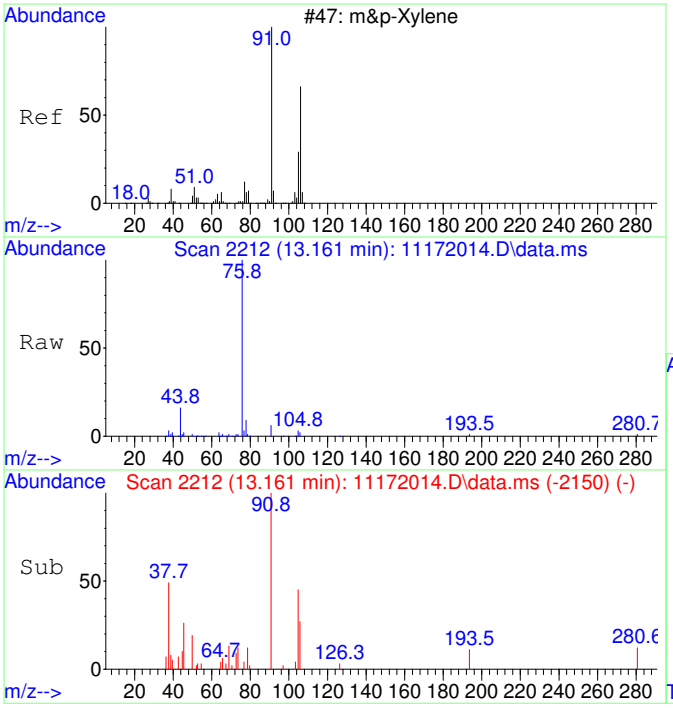


#42
Ethylbenzene SCAN
Concen: 57.40 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 7432

Ion	Ratio	Lower	Upper
91	100		
106	47.9	23.1	83.1
51	13.6	0.0	40.1

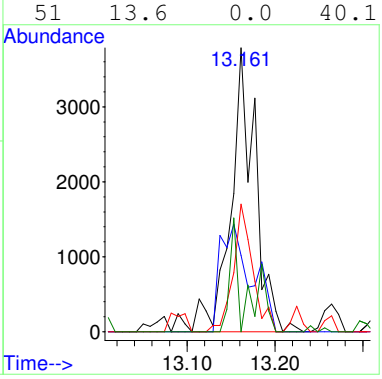


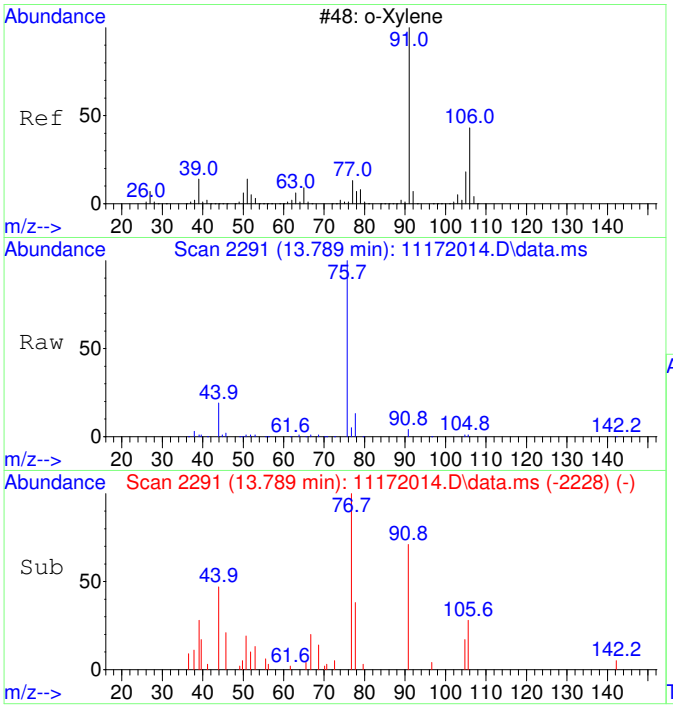


#43
m&p-Xylene SCAN
Concen: 57.40 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 7432

Ion	Ratio	Lower	Upper
91	100		
106	47.9	23.1	83.1
105	35.1	0.0	54.7
51	13.6	0.0	40.1

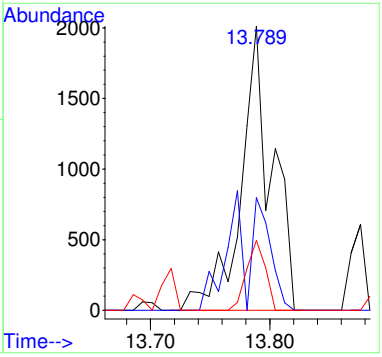


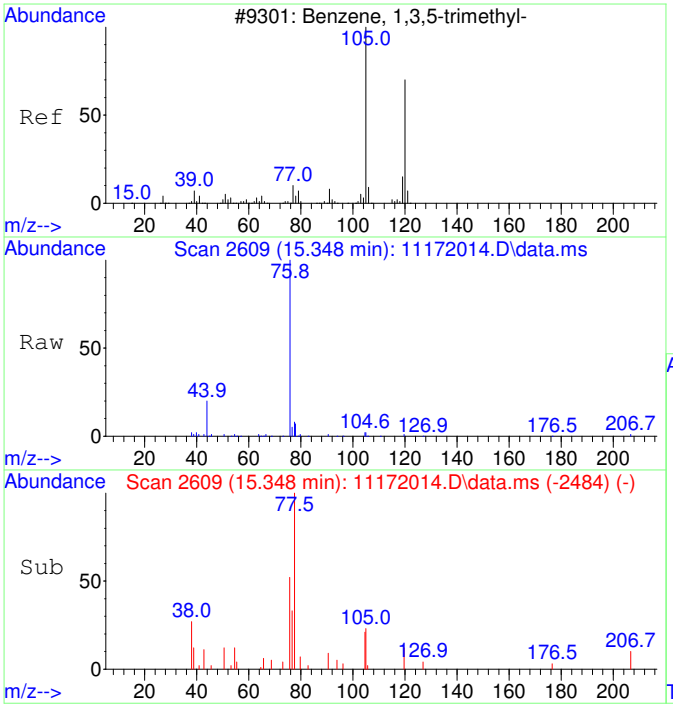


#44
o-Xylene SCAN
Concen: 52.23 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 3620

Ion	Ratio	Lower	Upper
91	100		
106	23.1	18.0	78.0
105	15.2	0.0	56.6

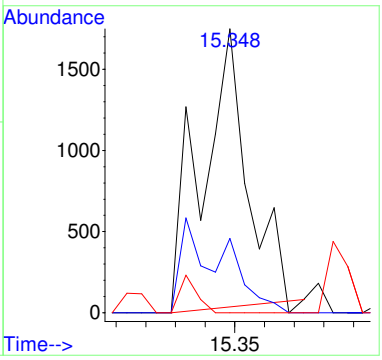


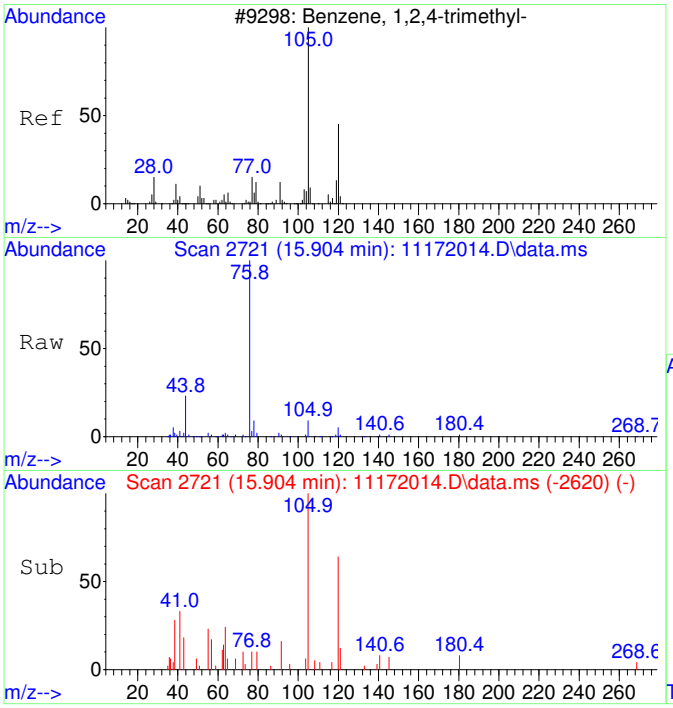


#46
1,3,5-Trimethylbenzene SCAN
Concen: 25.47 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:105 Resp: 1860

Ion	Ratio	Lower	Upper
105	100		
120	30.6	18.3	78.3
119	5.0	0.0	43.1

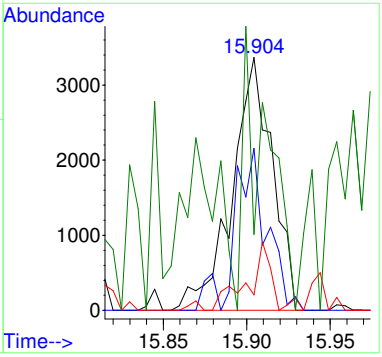




#47
1,2,4-Trimethylbenzene SCAN
Concen: 75.29 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:105 Resp: 5627

Ion	Ratio	Lower	Upper
105	100		
120	51.6	16.9	76.9
119	7.8	0.0	41.9
77	68.0	0.0	42.3#



Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172014.D
Acq On : 17 Nov 2020 13:02
InstName : AG5975C
Operator : TD
Sample : 2011017-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

M.I. Performed By:
TD at 9:34 am, Nov 23, 2020

M.I. Approved By:
ZR at 3:38 pm, Nov 23, 2020

Quant Time: Nov 17 13:20:56 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

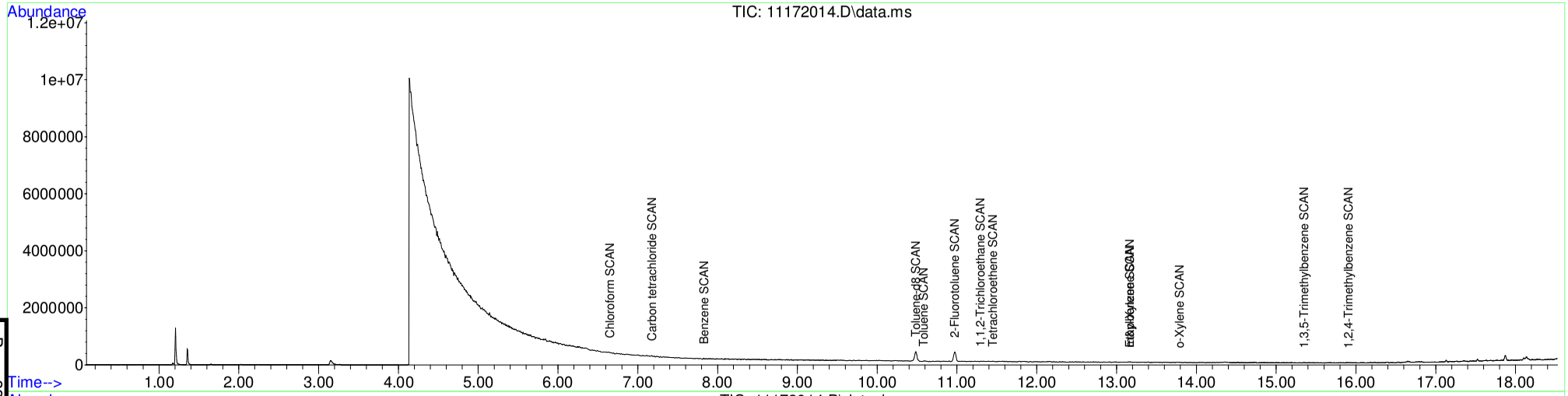
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	582089	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.477	98	502203	4407.22	ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.14%				
Target Compounds							Qvalue
6] Chloroform	6.639	83	29420	814.56	ug/L		99
7] 1,1,1-Trichloroethane	6.907	97	1031	26.28	ug/L		97
8] Carbon tetrachloride	7.175	117	1199	32.48	ug/L		93
9] Benzene	7.503	78	10055	101.67	ug/L	#	28
11] Trichloroethene	8.575	130	2402m	80.66	ug/L		
13] Toluene	10.582	91	17911	123.29	ug/L		98
15] Tetrachloroethene	11.432	166	5722	136.10	ug/L		99
18] Ethylbenzene	12.972	91	5498	31.09	ug/L		93
19] m&p-Xylene	13.162	91	14726	106.55	ug/L		94
20] o-Xylene	13.782	91	5663	38.35	ug/L		98
23] 1,2,4-Trimethylbenzene	15.901	105	11245	68.89	ug/L		89
25) 2-Fluorotoluene SCAN	10.969	109	280697	4946.82	ug/L		98
30) Chloroform SCAN	6.650	83	14604	728.21	ug/L		84
32) Carbon tetrachloride SCAN	7.173	117	863	45.27	ug/L	#	30
33) Benzene SCAN	7.828	78	18514	367.93	ug/L		92
36) Toluene-d8 SCAN	10.486	98	252484	4549.85	ug/L		99
37) Toluene SCAN	10.580	91	9262	130.33	ug/L	#	30
38) 1,1,2-Trichloroethane ...	11.294	97	542	33.98	ug/L	#	48
39) Tetrachloroethene SCAN	11.441	166	2516	147.36	ug/L	#	35
42) Ethylbenzene SCAN	13.161	91	7432	57.40	ug/L		92
43) m&p-Xylene SCAN	13.161	91	7432	57.40	ug/L		89
44) o-Xylene SCAN	13.789	91	3620	52.23	ug/L		68
46) 1,3,5-Trimethylbenzene...	15.348	105	1860	25.47	ug/L		75
47) 1,2,4-Trimethylbenzene...	15.904	105	5627	75.29	ug/L	#	69

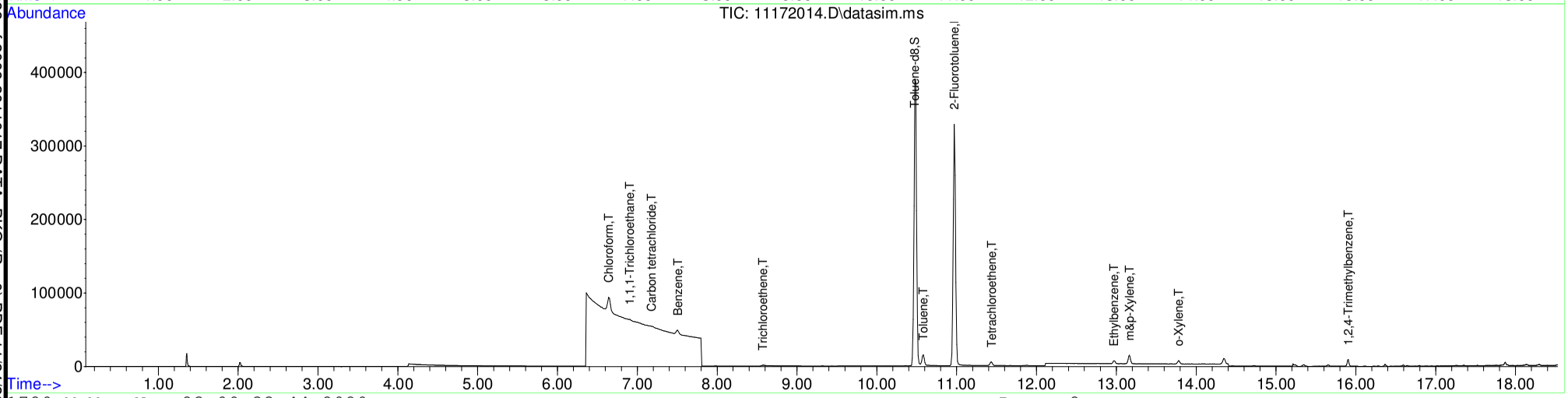
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172014.D
Acq On : 17 Nov 2020 13:02
InstName : AG5975C
Operator : TD
Sample : 2011017-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 17 13:20:56 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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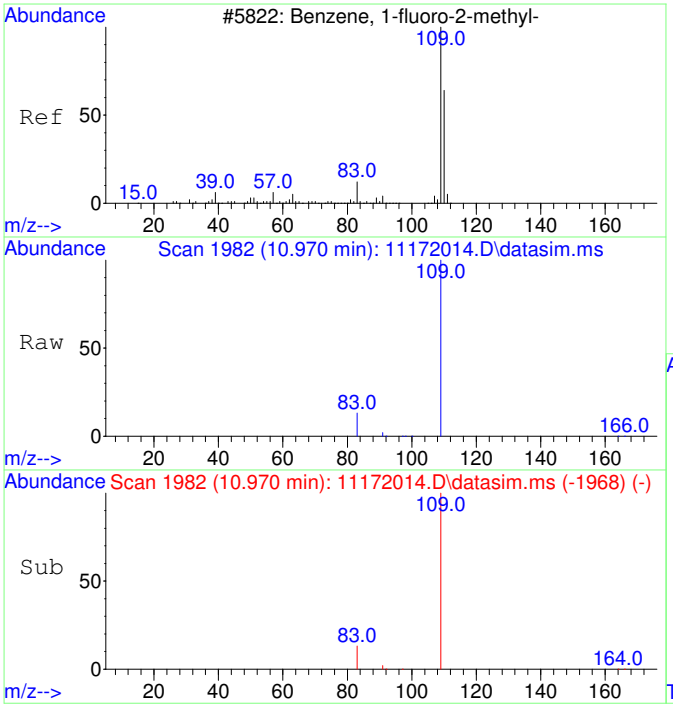
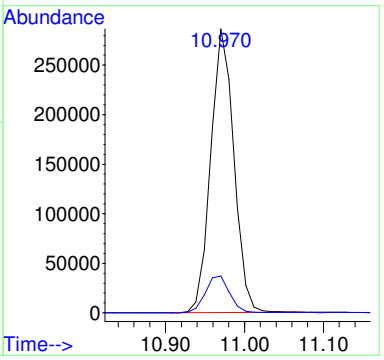
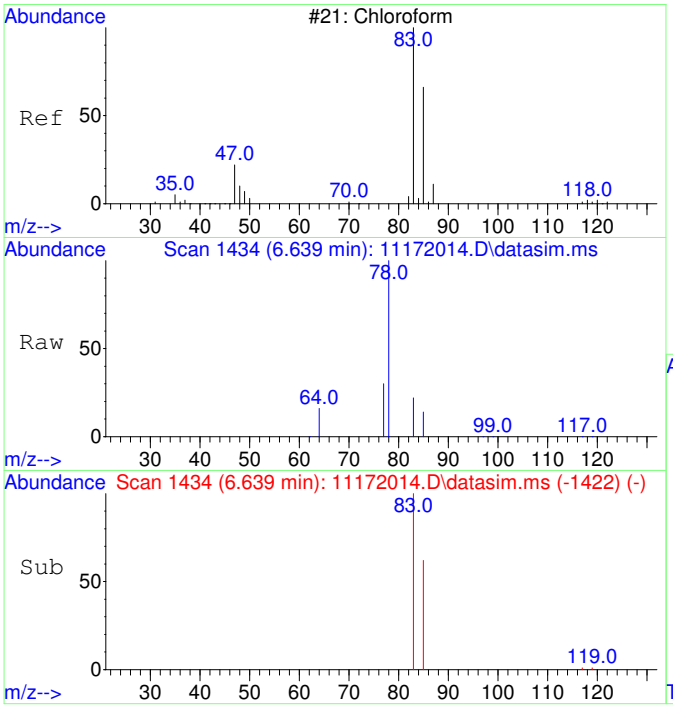


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:109 Resp: 582089

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

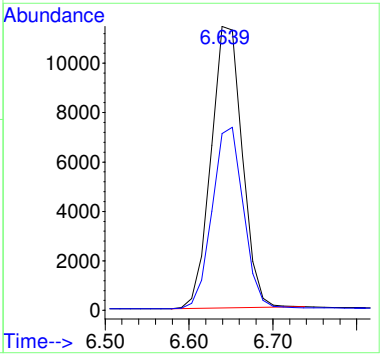


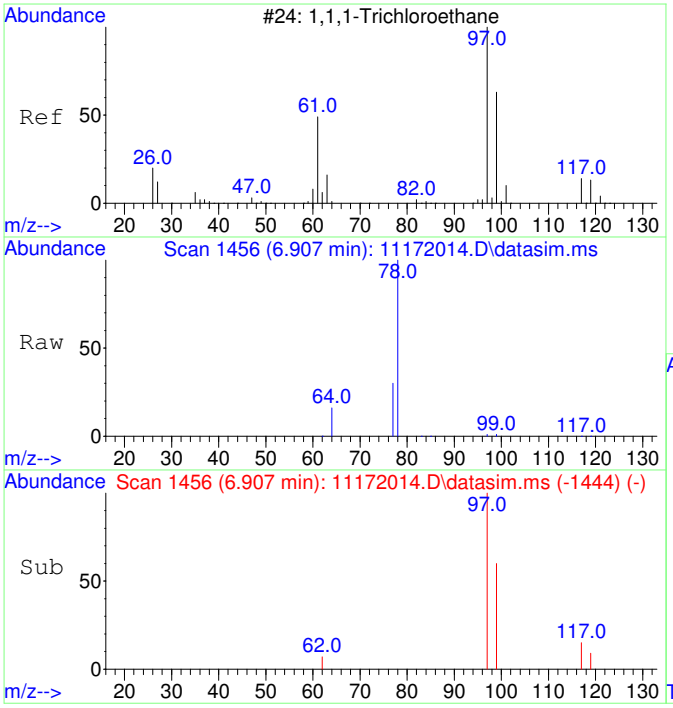


#6
Chloroform
Concen: 814.56 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 83 Resp: 29420

Ion	Ratio	Lower	Upper
83	100		
85	64.4	35.1	95.1

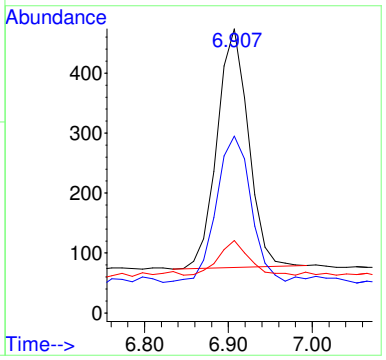


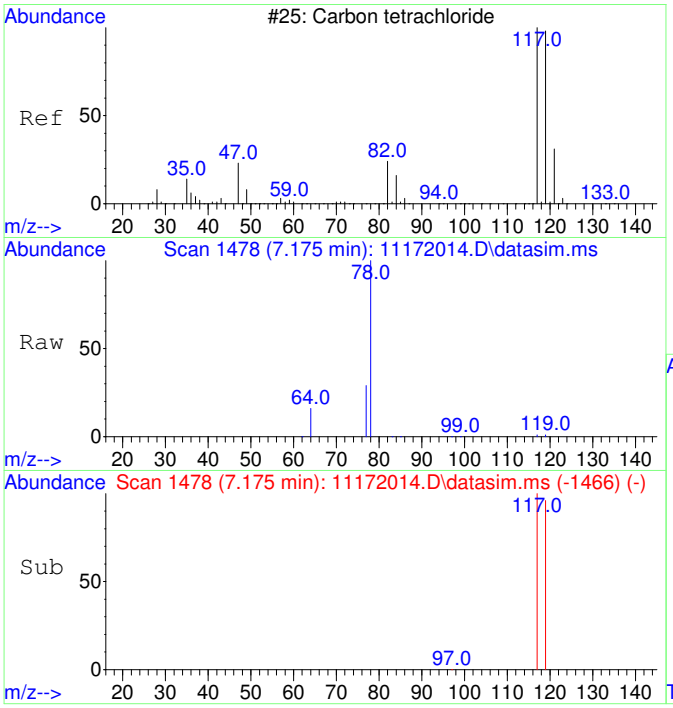


#7
1,1,1-Trichloroethane
Concen: 26.28 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 97 Resp: 1031

Ion	Ratio	Lower	Upper
97	100		
99	67.1	34.6	94.6
117	13.9	0.0	43.2

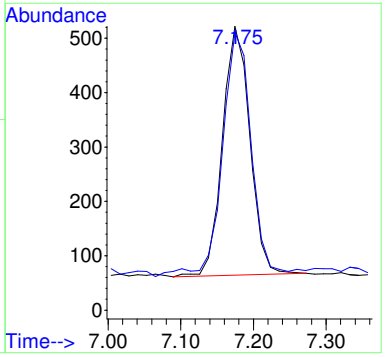


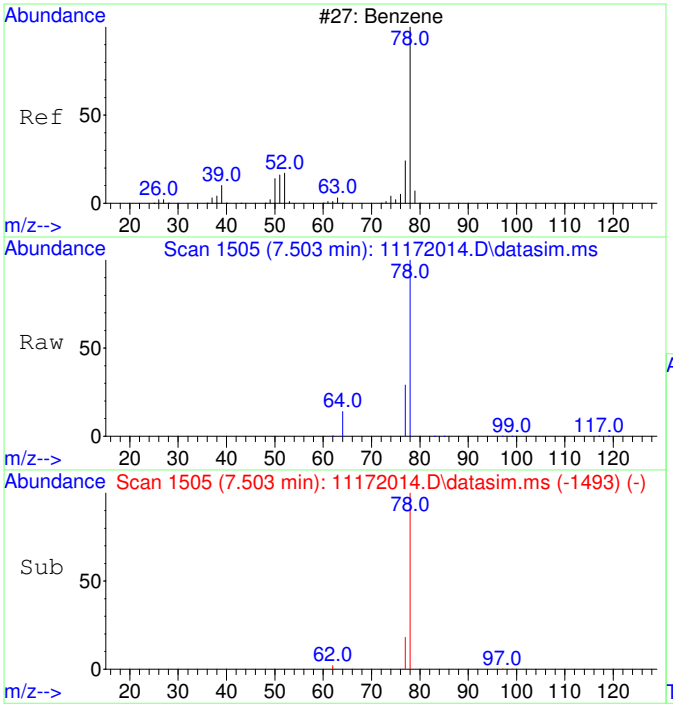


#8
Carbon tetrachloride
Concen: 32.48 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:117 Resp: 1199

Ion	Ratio	Lower	Upper
117	100		
119	103.6	66.4	126.4

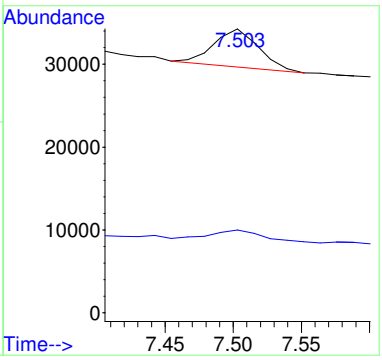


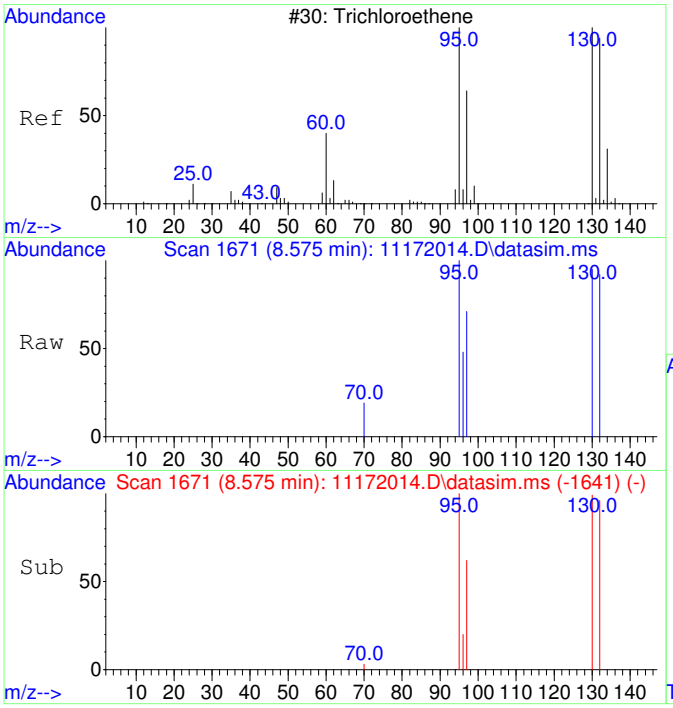


#9
Benzene
Concen: 101.67 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 78 Resp: 10055

Ion	Ratio	Lower	Upper
78	100		
77	58.3	0.0	53.2#

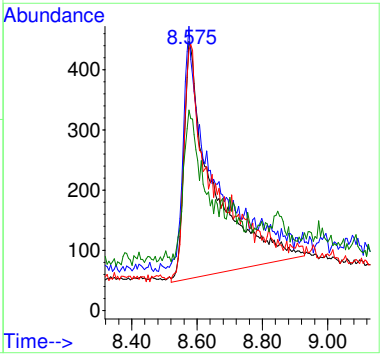


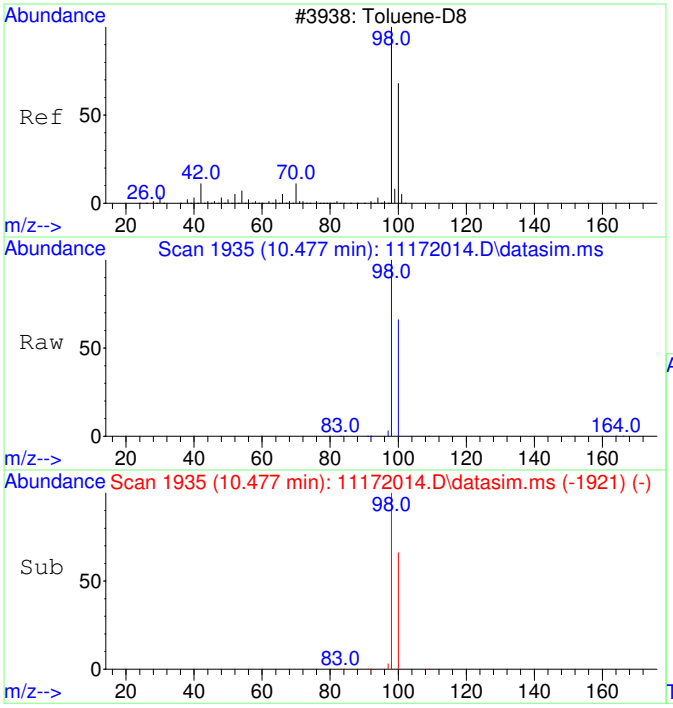


#11
Trichloroethene
Concen: 80.66 ug/L m
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:130 Resp: 2402

Ion	Ratio	Lower	Upper
130	100		
95	77.6	60.7	120.7
132	75.9	76.0	116.0#
97	42.6	38.6	78.6

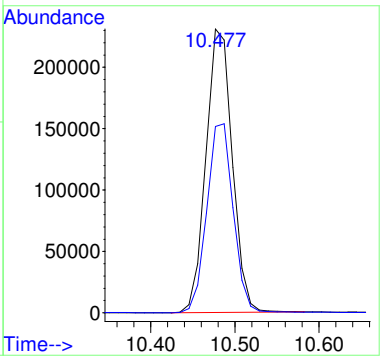


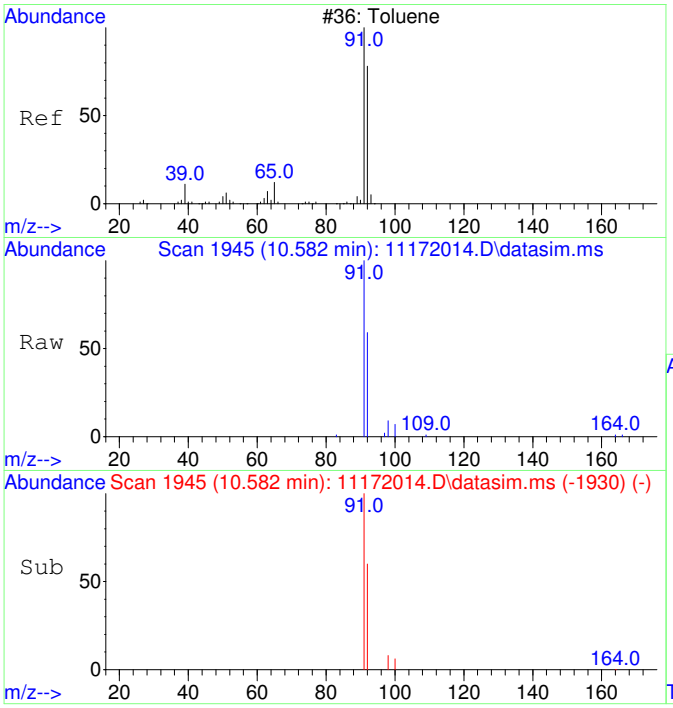


#12
Toluene-d8
Concen: 4407.22 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 98 Resp: 502203

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

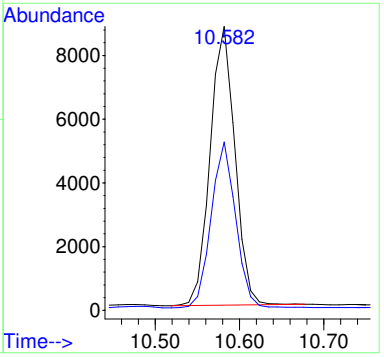


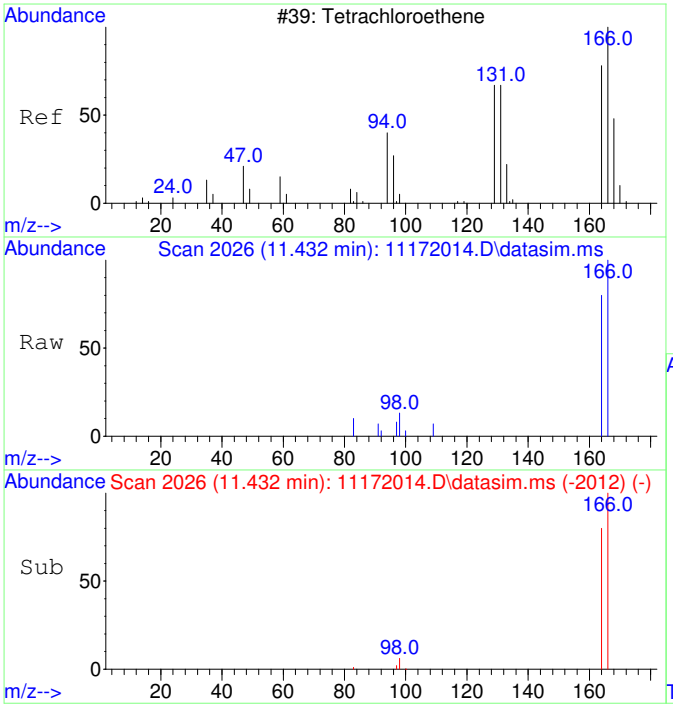


#13
Toluene
Concen: 123.29 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 17911

Ion	Ratio	Lower	Upper
91	100		
92	58.3	29.9	89.9

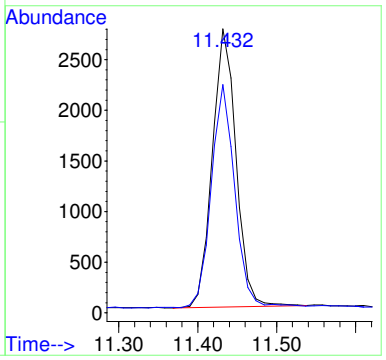


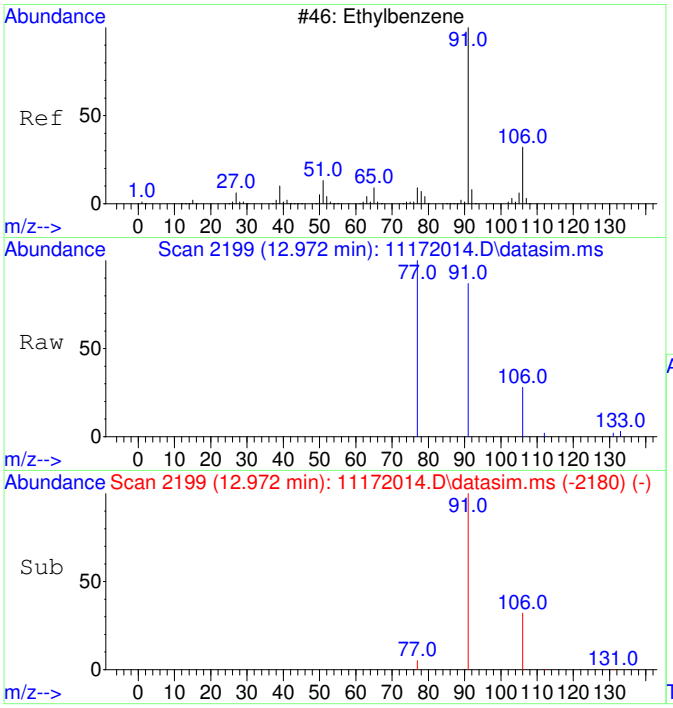


#15
Tetrachloroethene
Concen: 136.10 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:166 Resp: 5722

Ion	Ratio	Lower	Upper
166	100		
164	78.8	47.8	107.8

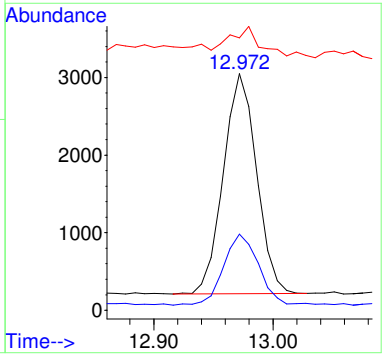


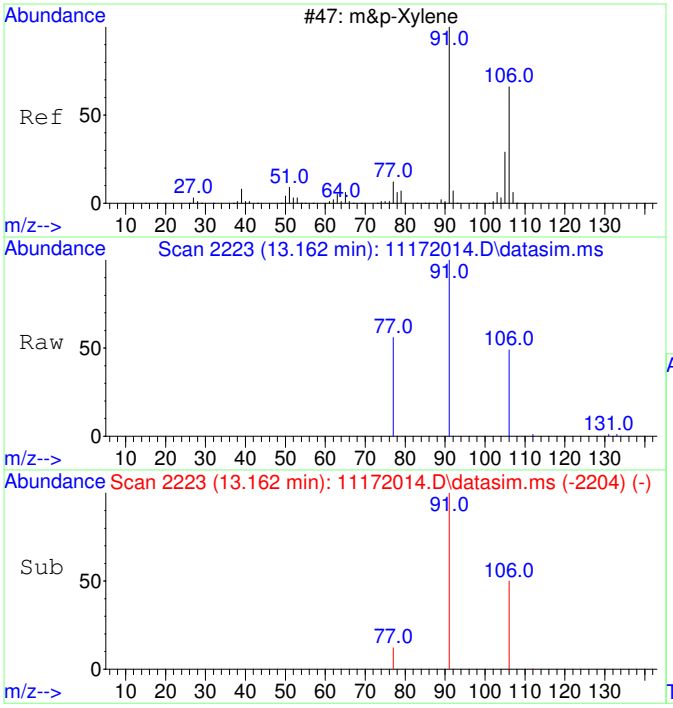


#18
Ethylbenzene
Concen: 31.09 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 5498

Ion	Ratio	Lower	Upper
91	100		
106	34.2	3.0	63.0
77	17.8	0.0	38.2

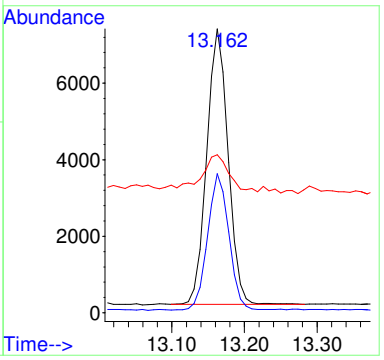


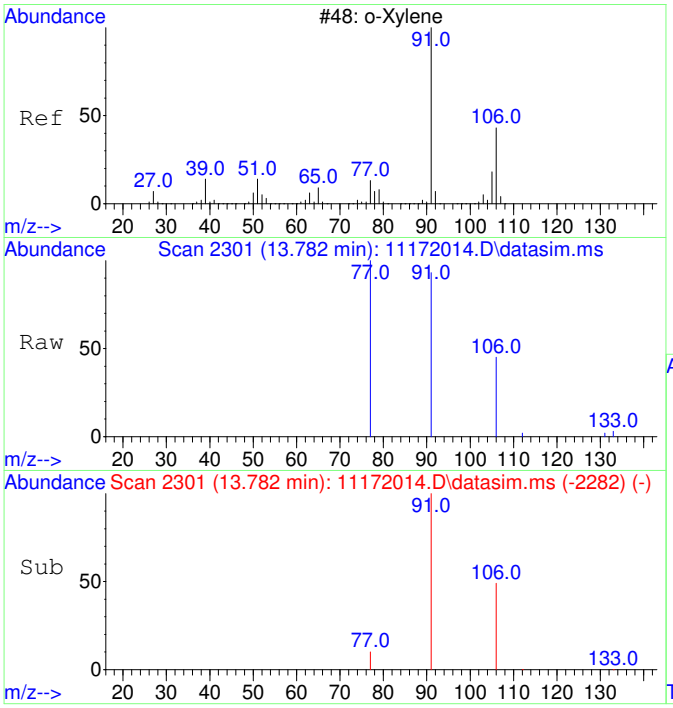


#19
m&p-Xylene
Concen: 106.55 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 14726

Ion	Ratio	Lower	Upper
91	100		
106	48.9	22.2	82.2
77	16.6	0.0	42.4

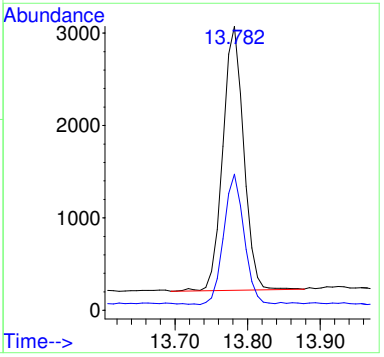


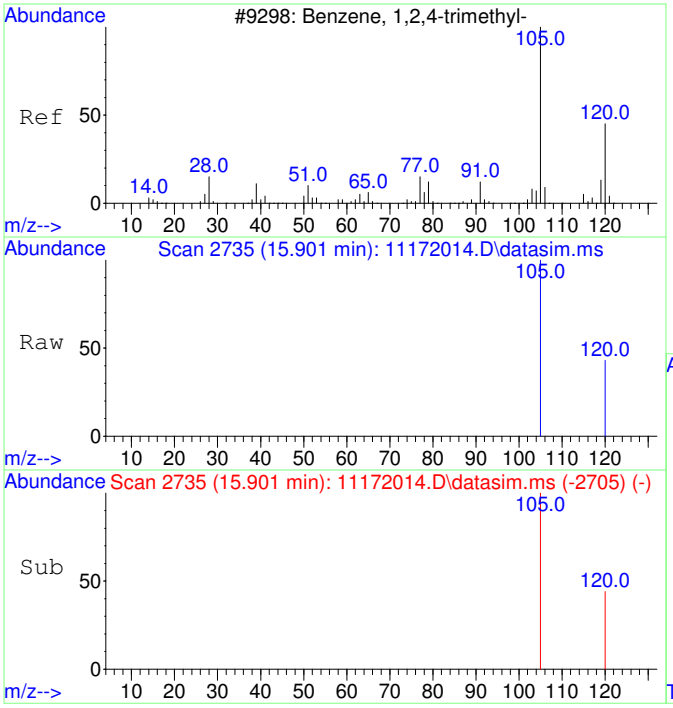


#20
o-Xylene
Concen: 38.35 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 5663

Ion	Ratio	Lower	Upper
91	100		
106	47.8	19.2	79.2

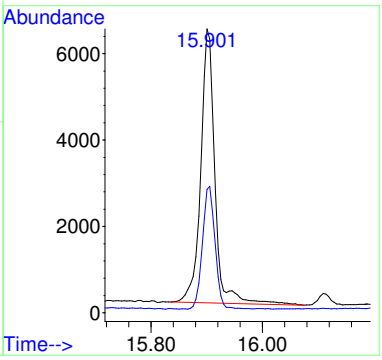


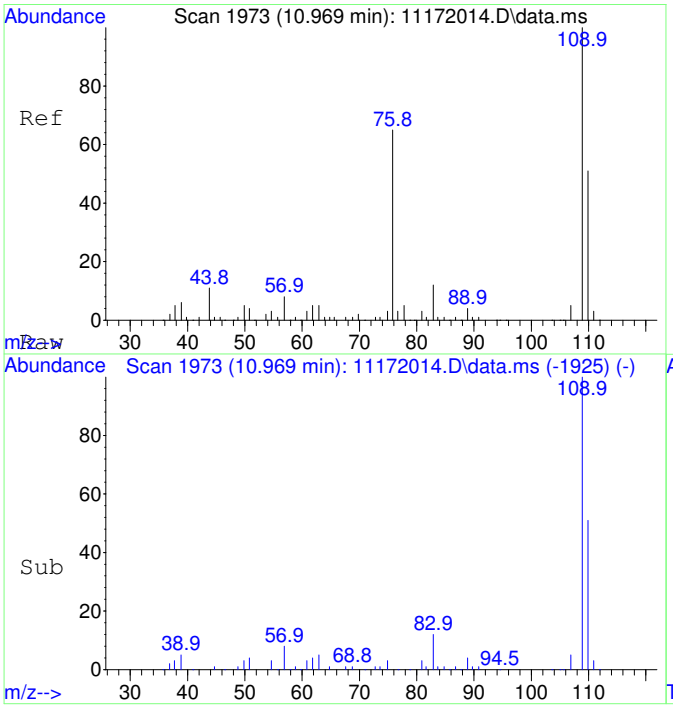


#23
1,2,4-Trimethylbenzene
Concen: 68.89 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:105 Resp: 11245

Ion	Ratio	Lower	Upper
105	100		
120	39.7	17.2	77.2

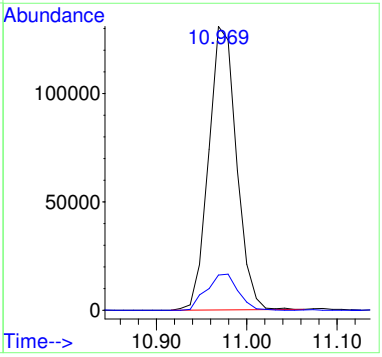


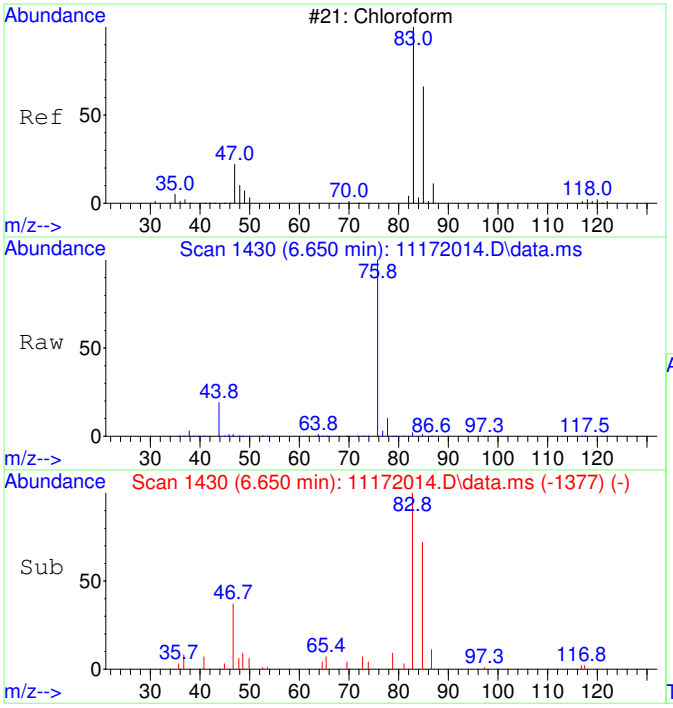


#25
2-Fluorotoluene SCAN
Concen: 4946.82 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:109 Resp: 280697

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	43.8

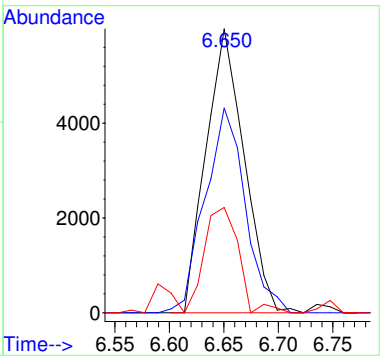


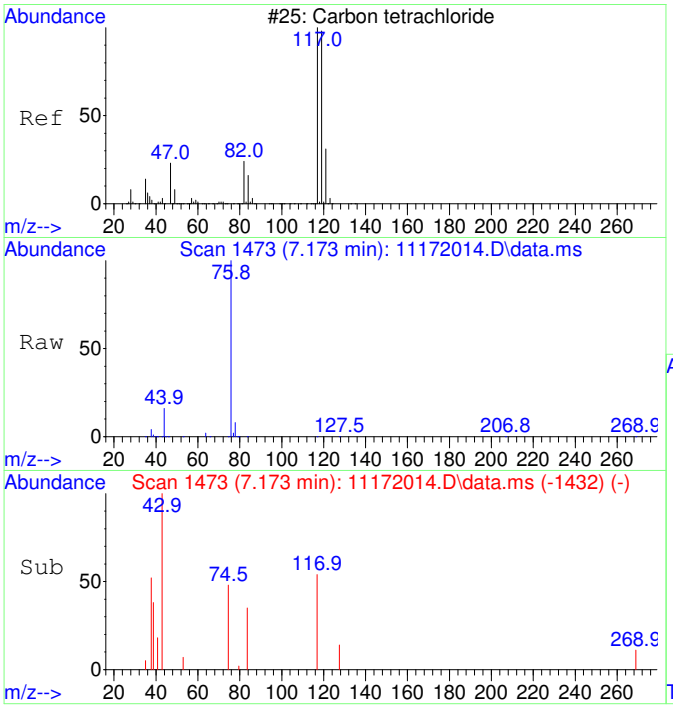


#30
Chloroform SCAN
Concen: 728.21 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 83 Resp: 14604

Ion	Ratio	Lower	Upper
83	100		
85	76.2	34.6	94.6
47	33.4	0.0	53.4

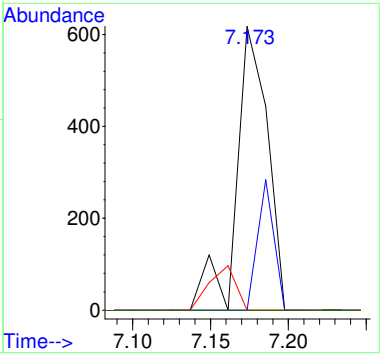


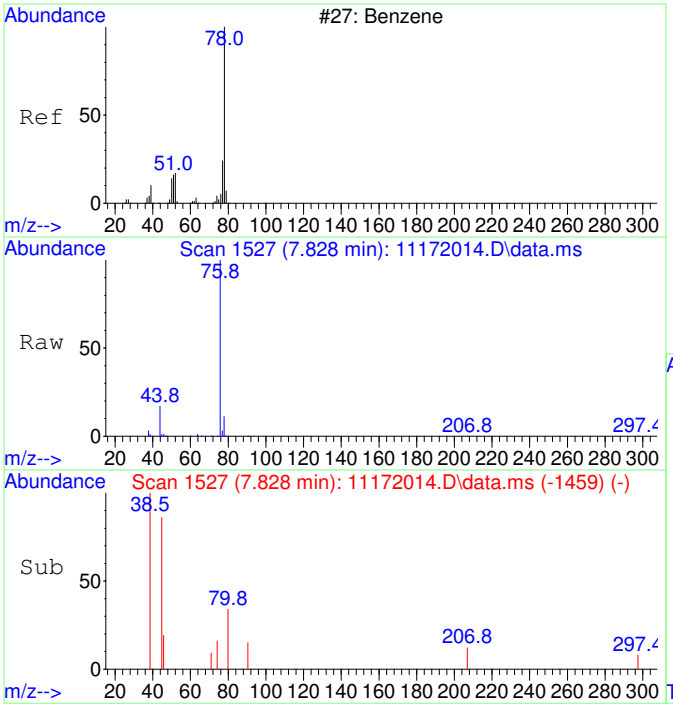


#32
Carbon tetrachloride SCAN
Concen: 45.27 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:117 Resp: 863

Ion	Ratio	Lower	Upper
117	100		
119	24.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

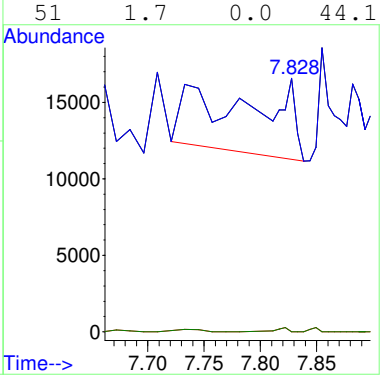


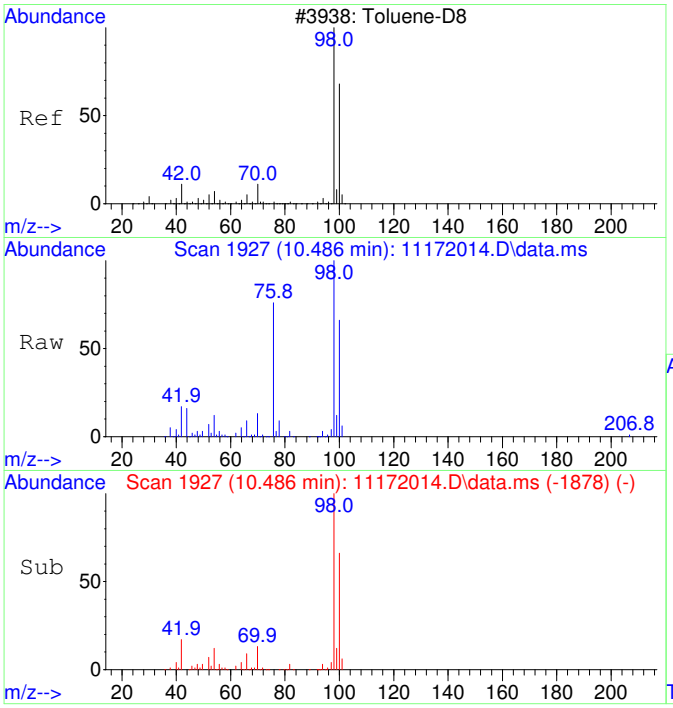


#33
Benzene SCAN
Concen: 367.93 ug/L
RT: 7.828 min Scan# 1527
Delta R.T. 0.326 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 78 Resp: 18514

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.7	0.0	47.9
51	1.7	0.0	44.1

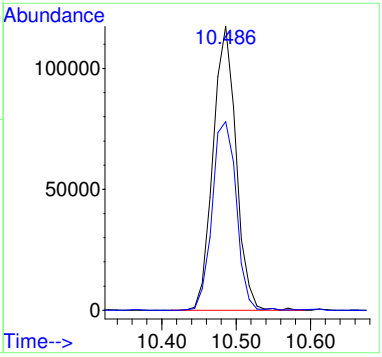


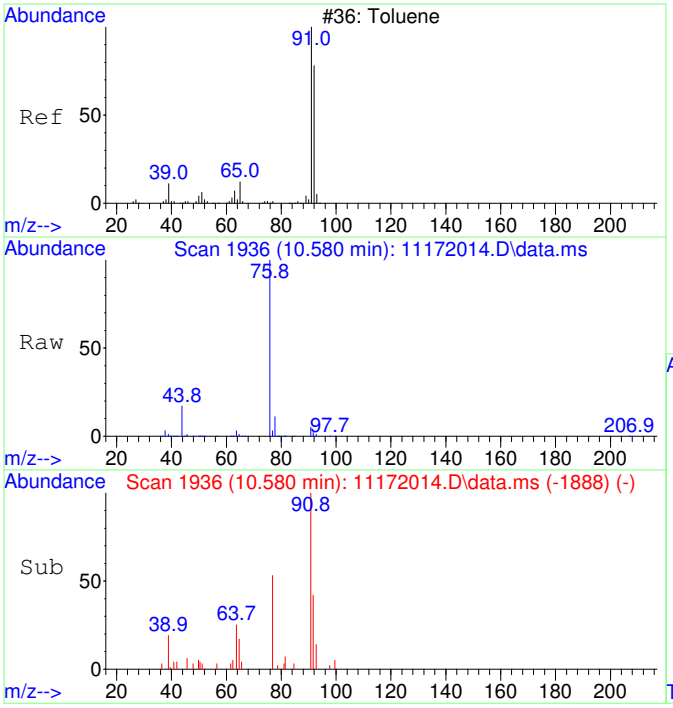


#36
Toluene-d8 SCAN
Concen: 4549.85 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 98 Resp: 252484

Ion	Ratio	Lower	Upper
98	100		
100	69.1	40.0	100.0

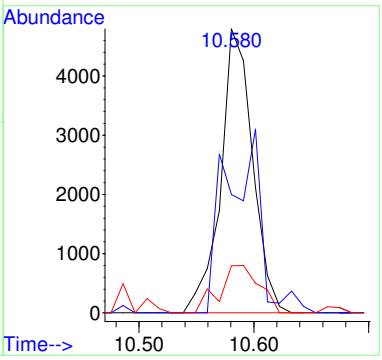


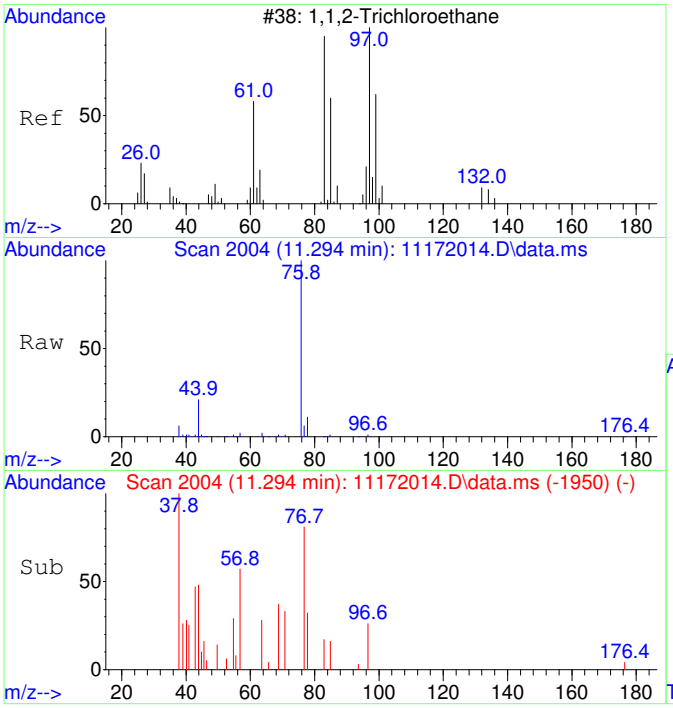


#37
Toluene SCAN
Concen: 130.33 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 9262

Ion	Ratio	Lower	Upper
91	100		
92	0.0	28.3	88.3#
65	20.9	0.0	41.0

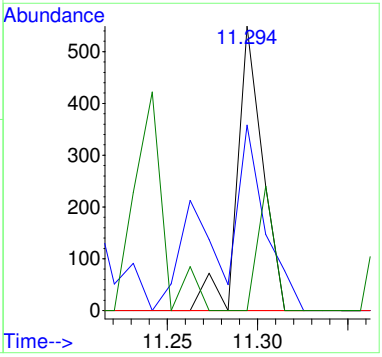


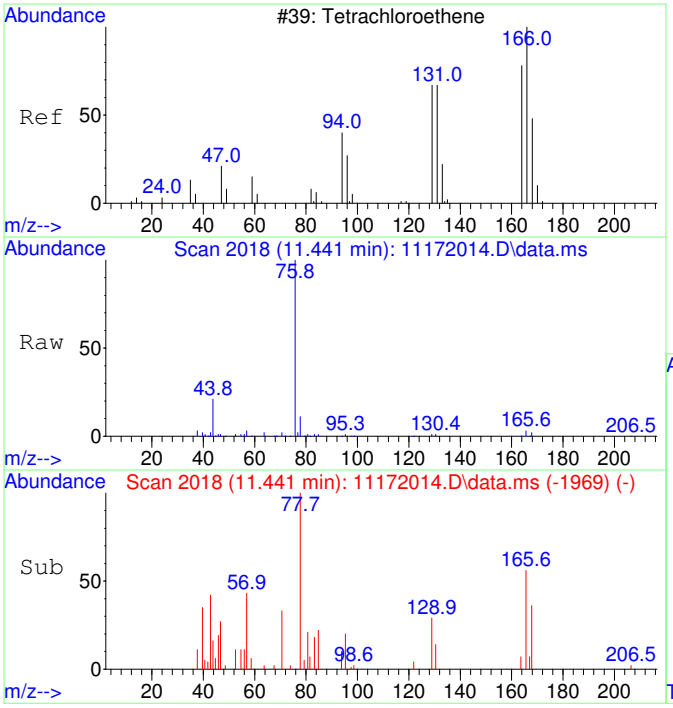


#38
1,1,2-Trichloroethane SCAN
Concen: 33.98 ug/L
RT: 11.294 min Scan# 2004
Delta R.T. 0.063 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 97 Resp: 542

Ion	Ratio	Lower	Upper
97	100		
83	120.1	57.7	117.7#
61	0.0	32.1	92.1#
99	27.9	36.7	96.7#

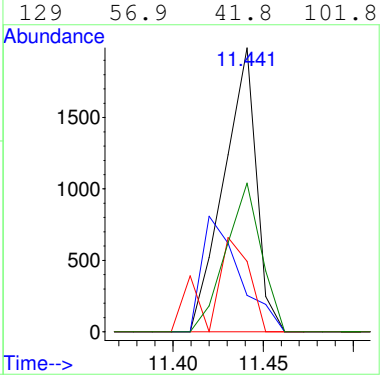


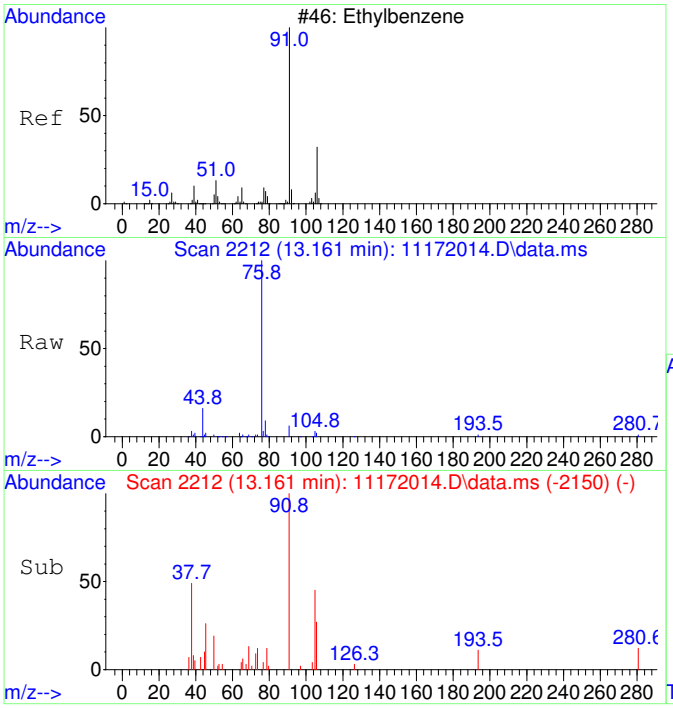


#39
Tetrachloroethene SCAN
Concen: 147.36 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:166 Resp: 2516

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	0.0	38.7	98.7#
129	56.9	41.8	101.8

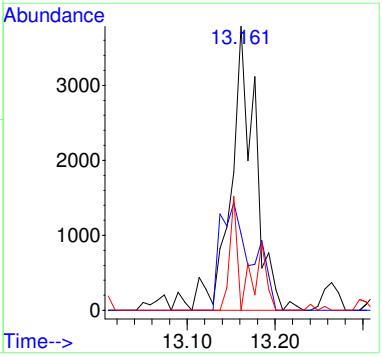


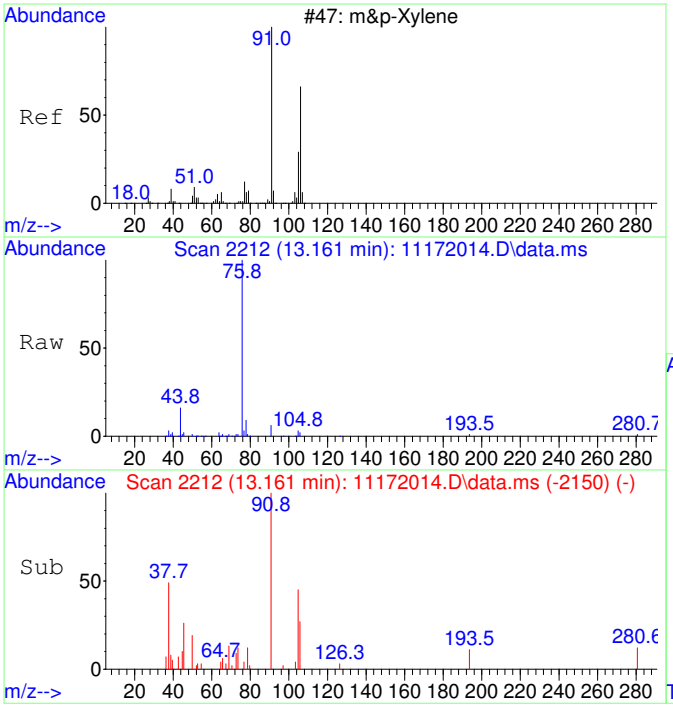


#42
Ethylbenzene SCAN
Concen: 57.40 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 7432

Ion	Ratio	Lower	Upper
91	100		
106	47.9	23.1	83.1
51	13.6	0.0	40.1

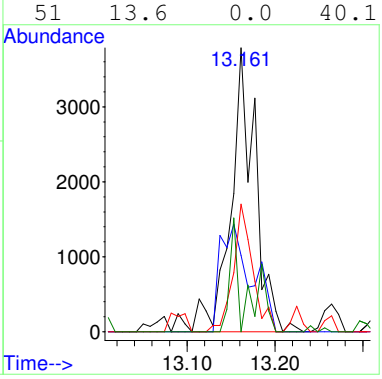


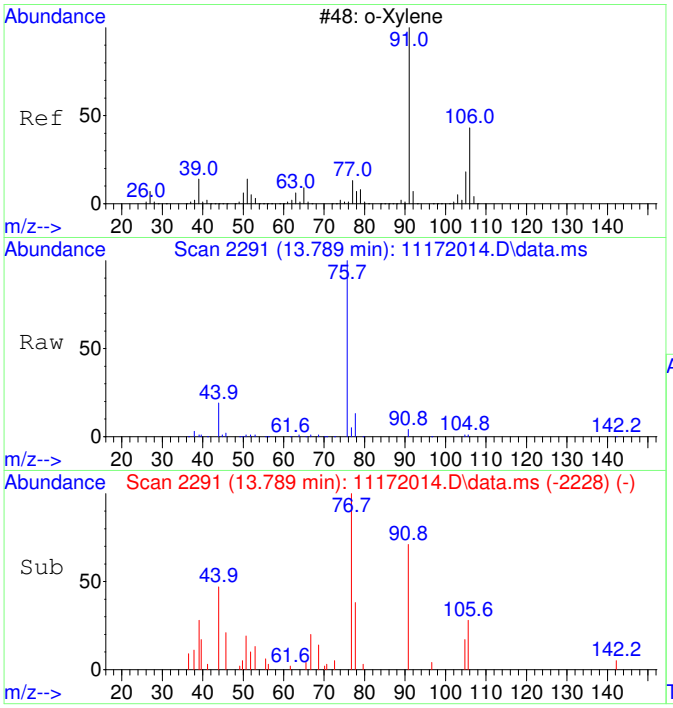


#43
m&p-Xylene SCAN
Concen: 57.40 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 7432

Ion	Ratio	Lower	Upper
91	100		
106	47.9	23.1	83.1
105	35.1	0.0	54.7
51	13.6	0.0	40.1

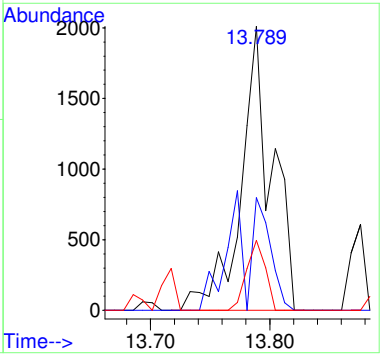


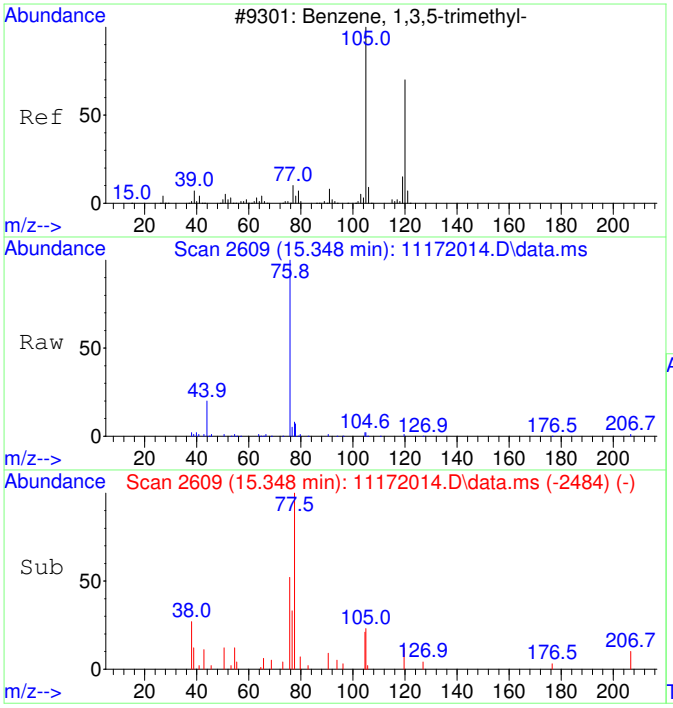


#44
o-Xylene SCAN
Concen: 52.23 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion: 91 Resp: 3620

Ion	Ratio	Lower	Upper
91	100		
106	23.1	18.0	78.0
105	15.2	0.0	56.6

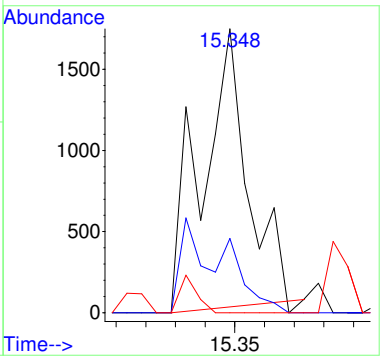


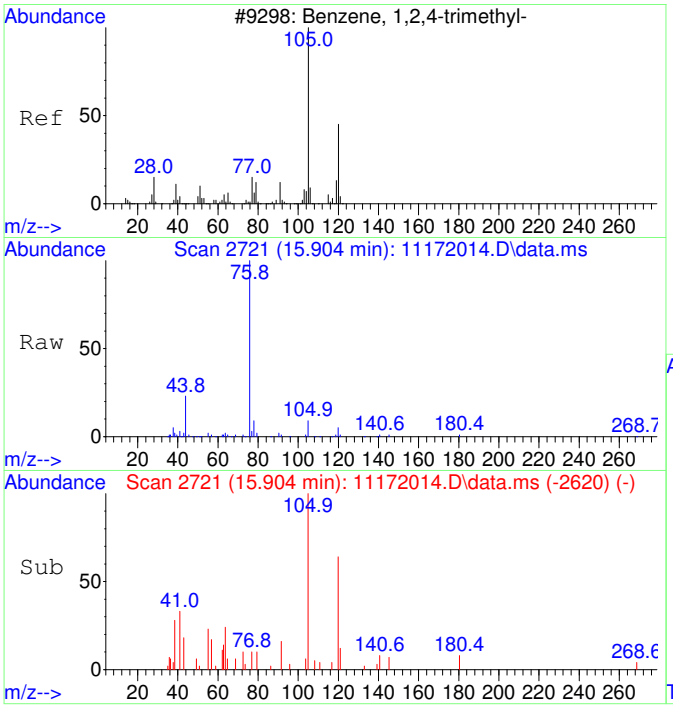


#46
1,3,5-Trimethylbenzene SCAN
Concen: 25.47 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:105 Resp: 1860

Ion	Ratio	Lower	Upper
105	100		
120	30.6	18.3	78.3
119	5.0	0.0	43.1

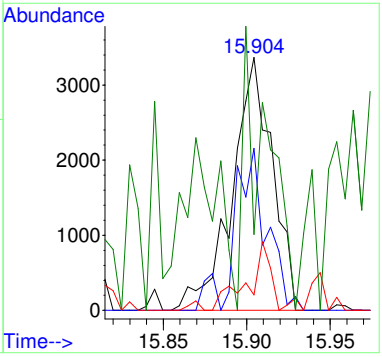




#47
1,2,4-Trimethylbenzene SCAN
Concen: 75.29 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172014.D
Acq: 17 Nov 2020 13:02

Tgt Ion:105 Resp: 5627

Ion	Ratio	Lower	Upper
105	100		
120	51.6	16.9	76.9
119	7.8	0.0	41.9
77	68.0	0.0	42.3#



2011017-04

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172015.D
Acq On : 17 Nov 2020 13:25
InstName : AG5975C
Operator : TD
Sample : 2011017-04
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 17 13:44:26 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

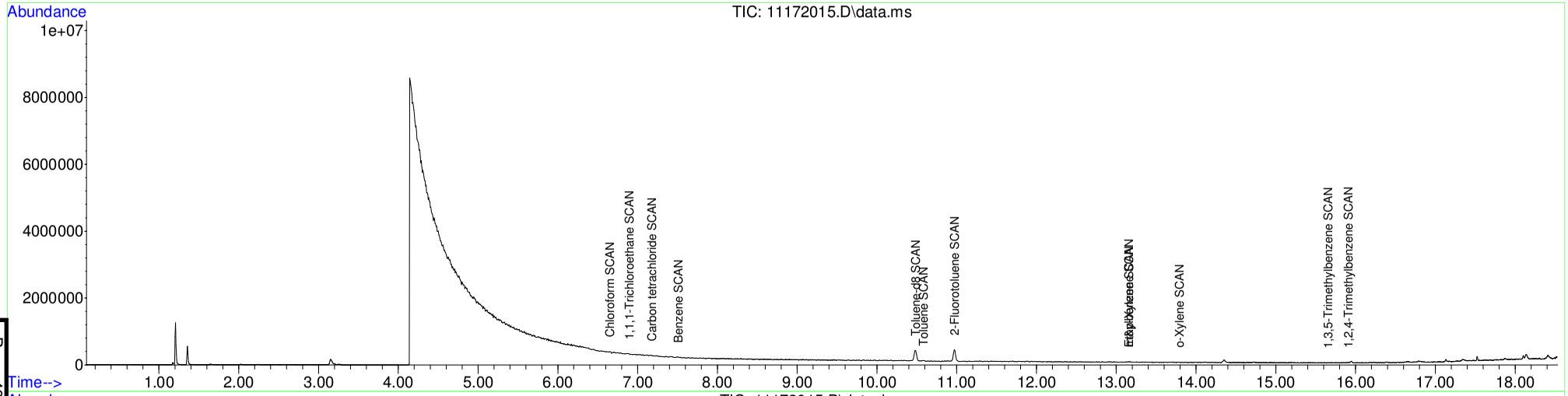
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	615434	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	527419	4377.73	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.55%			
Target Compounds						Qvalue
6] Chloroform	6.639	83	10197	267.03	ug/L	99
8] Carbon tetrachloride	7.175	117	1571	40.25	ug/L	100
9] Benzene	7.503	78	9324	89.17	ug/L #	26
13] Toluene	10.582	91	17453	113.63	ug/L	98
15] Tetrachloroethene	11.432	166	1037	23.33	ug/L	99
18] Ethylbenzene	12.972	91	5413	28.95	ug/L	94
19] m&p-Xylene	13.162	91	14245	97.49	ug/L	94
20] o-Xylene	13.782	91	5377	34.44	ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	8935	51.77	ug/L	88
25) 2-Fluorotoluene SCAN	10.969	109	291614	4860.76	ug/L	96
30) Chloroform SCAN	6.650	83	6577	310.19	ug/L	77
31) 1,1,1-Trichloroethane ...	6.894	97	509	26.34	ug/L #	19
32) Carbon tetrachloride SCAN	7.173	117	831	41.23	ug/L #	33
33) Benzene SCAN	7.514	78	21555	405.16	ug/L	92
36) Toluene-d8 SCAN	10.486	98	262309	4470.79	ug/L	90
37) Toluene SCAN	10.580	91	12135	161.50	ug/L	87
42) Ethylbenzene SCAN	13.161	91	7920	57.86	ug/L	80
43) m&p-Xylene SCAN	13.161	91	7920	57.86	ug/L	77
44) o-Xylene SCAN	13.789	91	3382	46.16	ug/L	81
46) 1,3,5-Trimethylbenzene...	15.656	105	2282	29.55	ug/L	65
47) 1,2,4-Trimethylbenzene...	15.904	105	6144	77.76	ug/L #	86

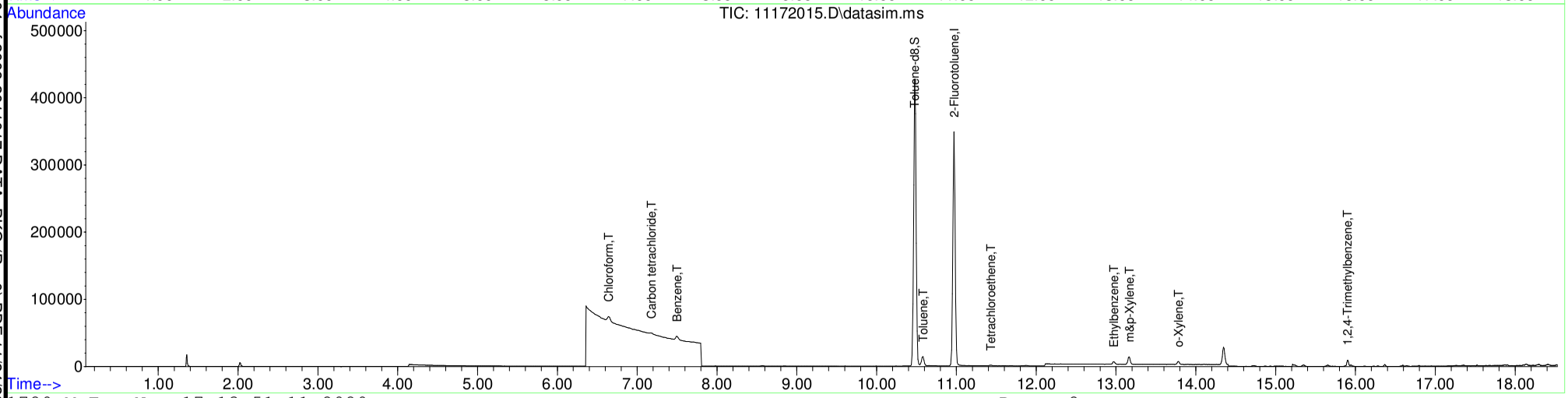
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172015.D
Acq On : 17 Nov 2020 13:25
InstName : AG5975C
Operator : TD
Sample : 2011017-04
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 17 13:44:26 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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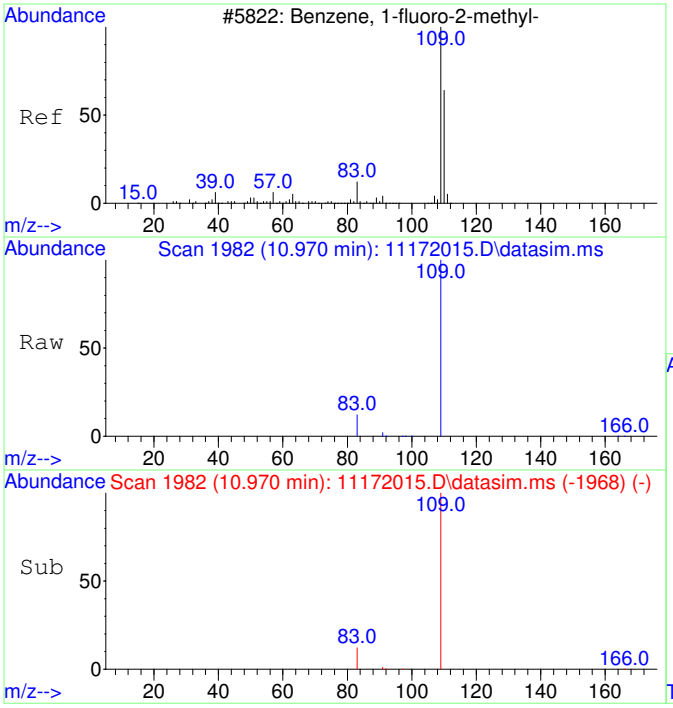
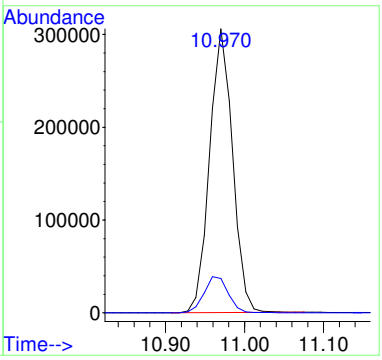
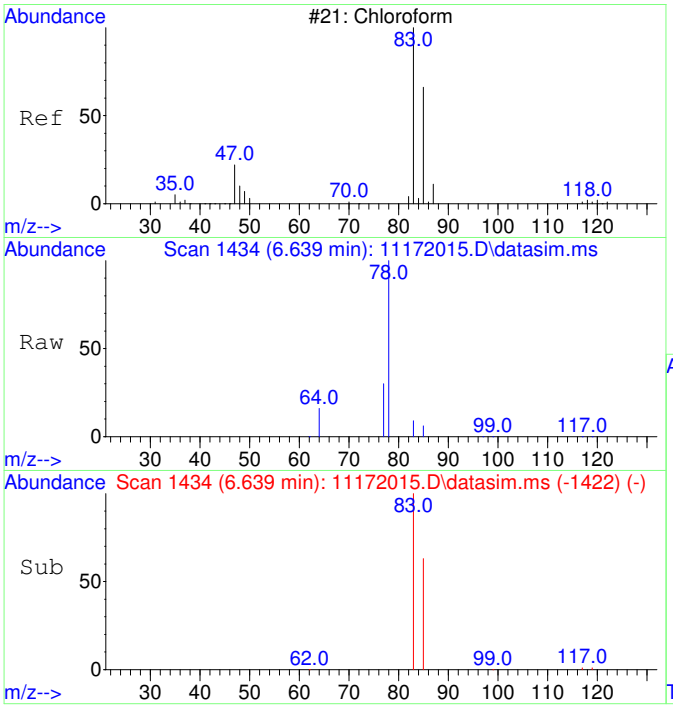


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion:109 Resp: 615434

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

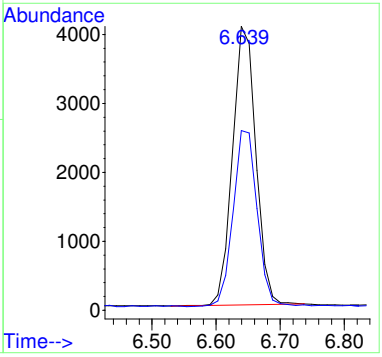


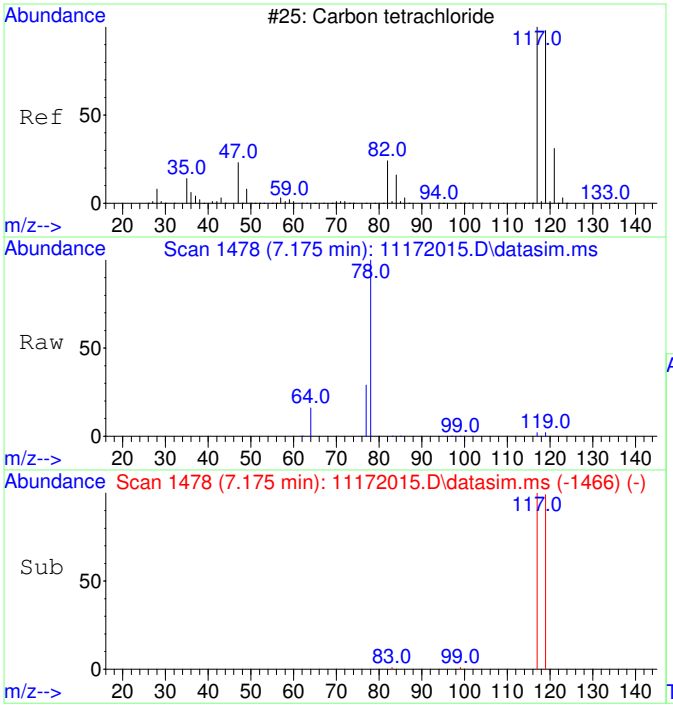


#6
Chloroform
Concen: 267.03 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 83 Resp: 10197

Ion	Ratio	Lower	Upper
83	100		
85	64.5	35.1	95.1

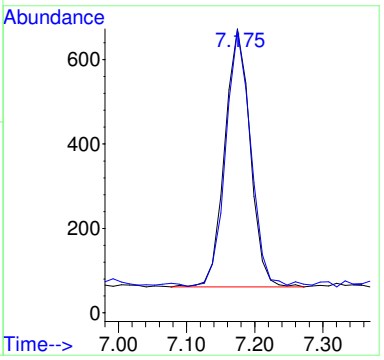


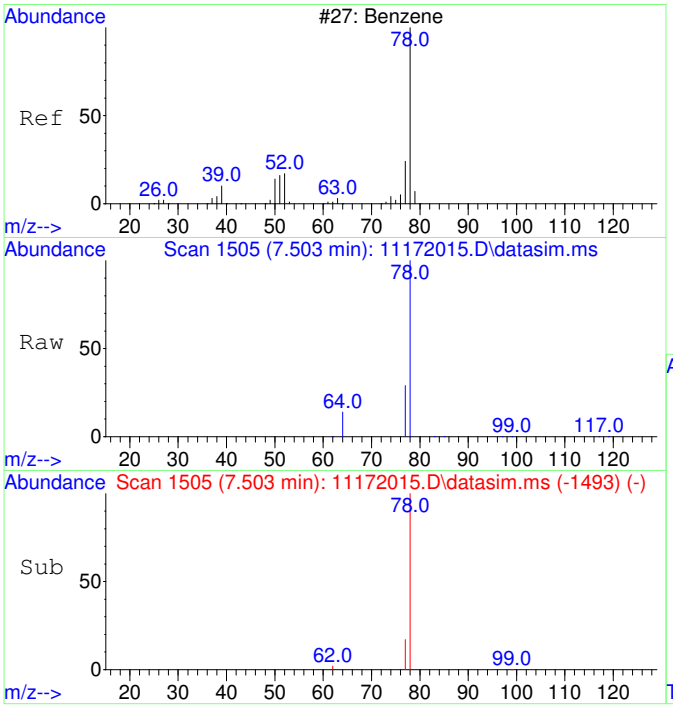


#8
Carbon tetrachloride
Concen: 40.25 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion:117 Resp: 1571

Ion	Ratio	Lower	Upper
117	100		
119	96.9	66.4	126.4

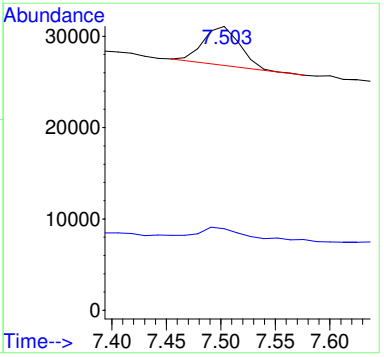


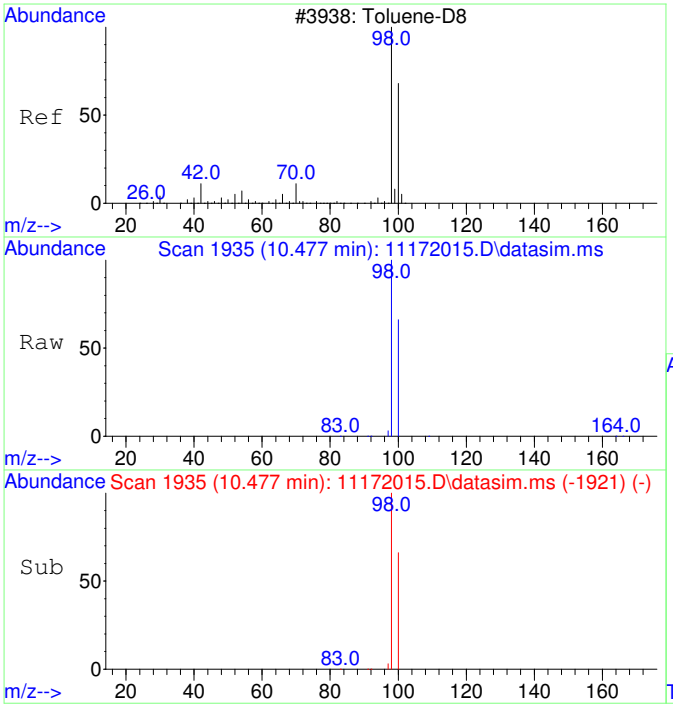


#9
Benzene
Concen: 89.17 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 78 Resp: 9324

Ion	Ratio	Lower	Upper
78	100		
77	59.1	0.0	53.2#

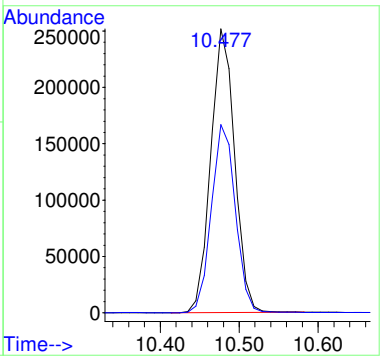


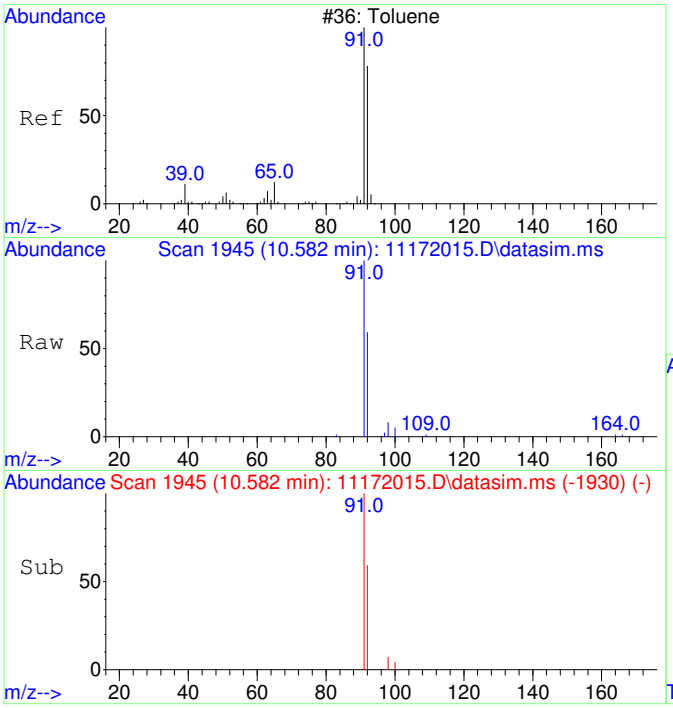


#12
Toluene-d8
Concen: 4377.73 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 98 Resp: 527419

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

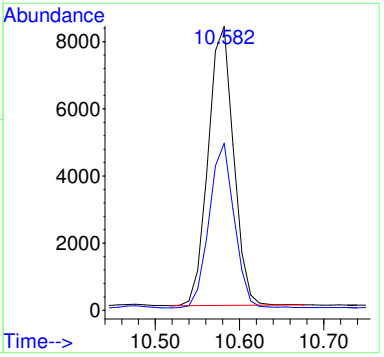


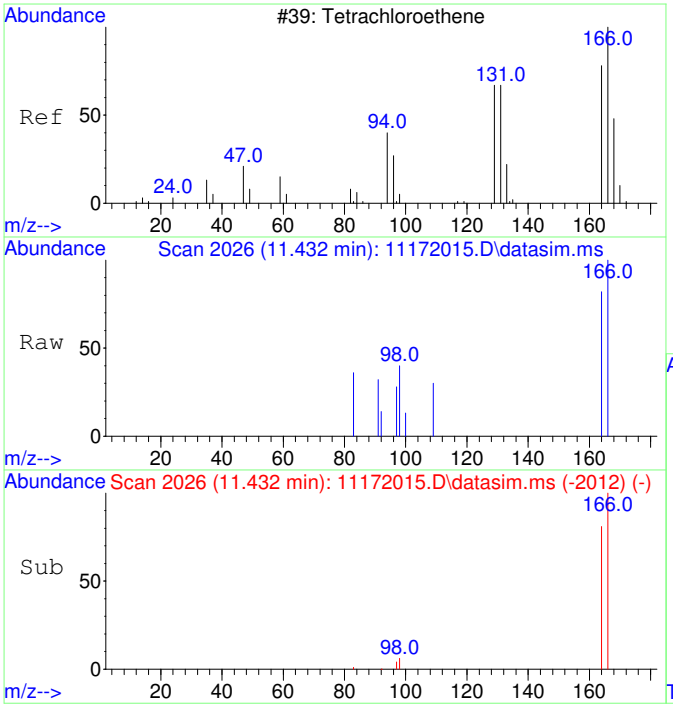


#13
Toluene
Concen: 113.63 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 91 Resp: 17453

Ion	Ratio	Lower	Upper
91	100		
92	58.3	29.9	89.9

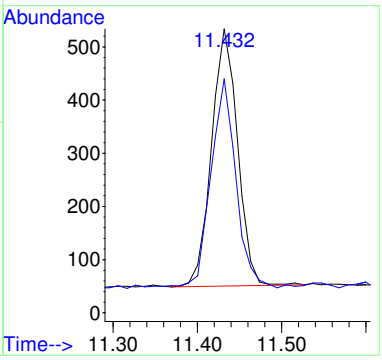


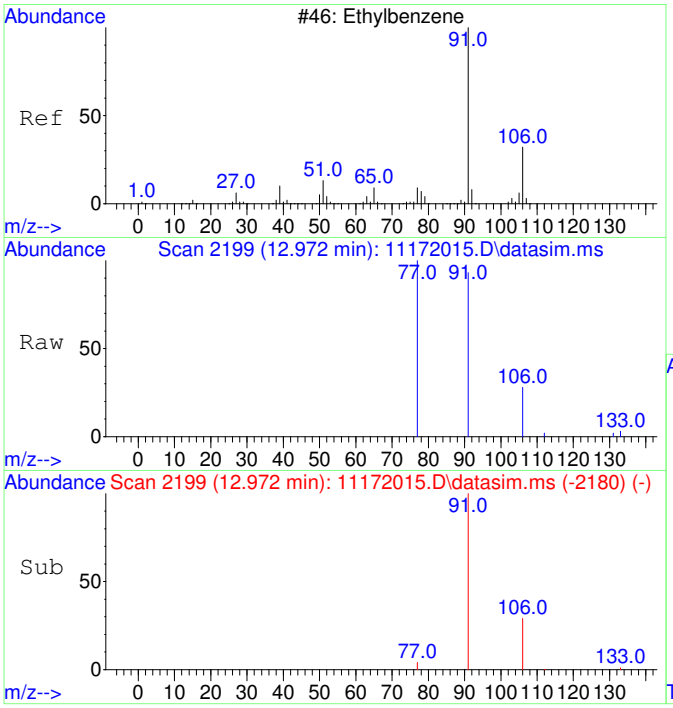


#15
Tetrachloroethene
Concen: 23.33 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion:166 Resp: 1037

Ion	Ratio	Lower	Upper
166	100		
164	77.0	47.8	107.8

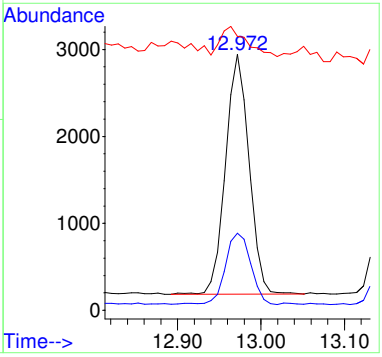


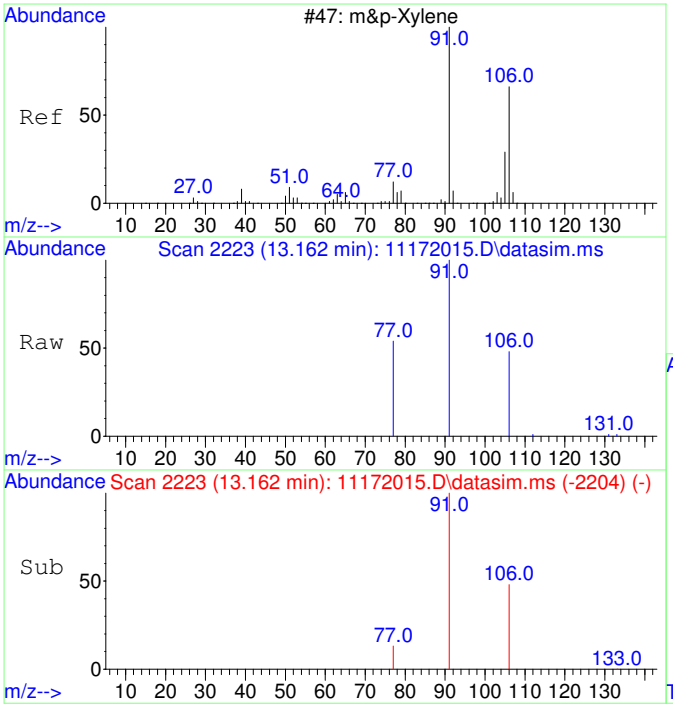


#18
Ethylbenzene
Concen: 28.95 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 91 Resp: 5413

Ion	Ratio	Lower	Upper
91	100		
106	31.9	3.0	63.0
77	15.6	0.0	38.2

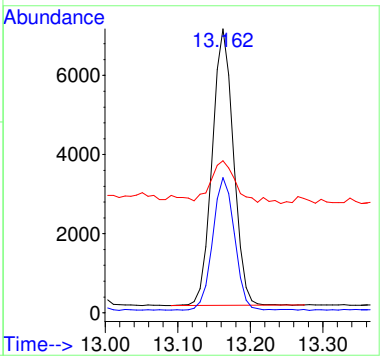


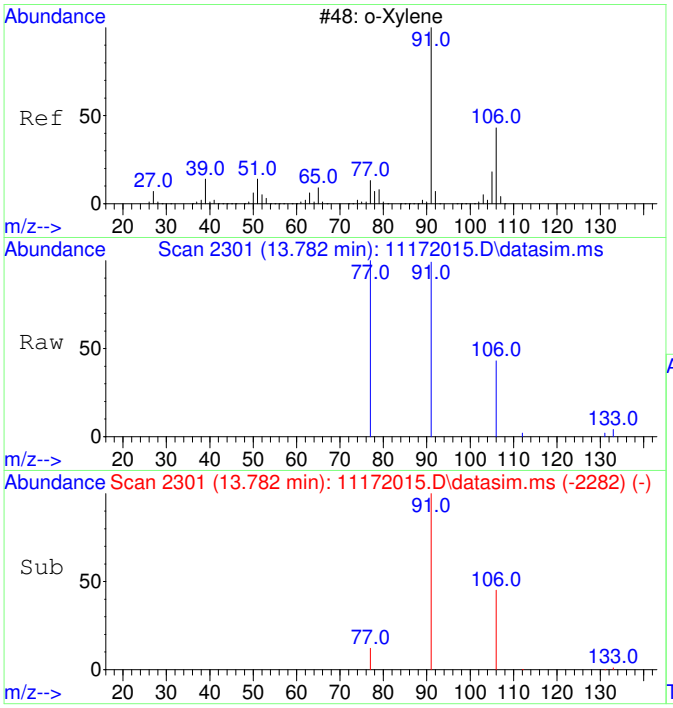


#19
m&p-Xylene
Concen: 97.49 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 91 Resp: 14245

Ion	Ratio	Lower	Upper
91	100		
106	49.1	22.2	82.2
77	16.6	0.0	42.4

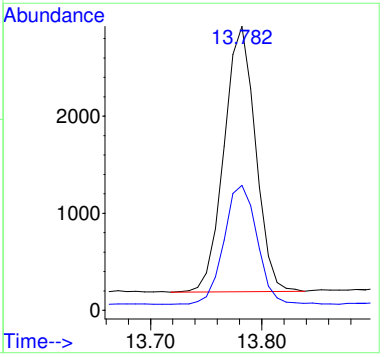


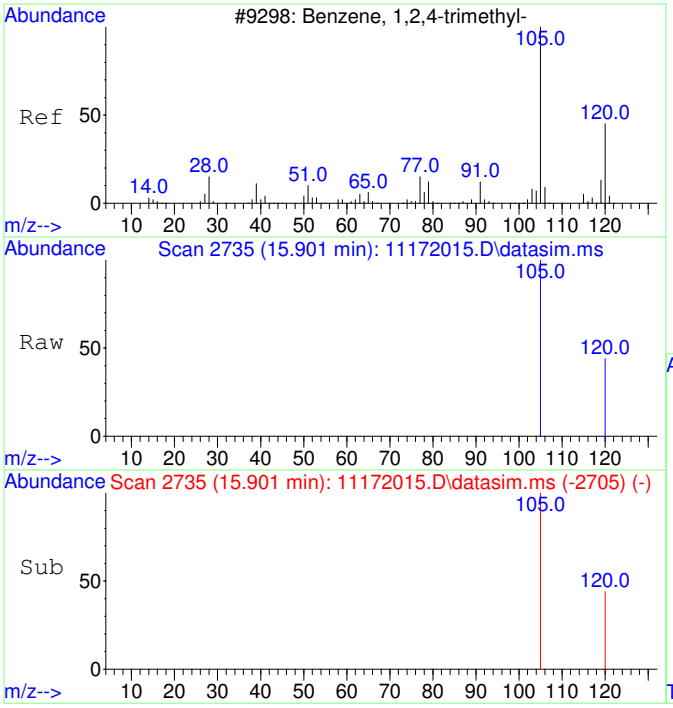


#20
o-Xylene
Concen: 34.44 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 91 Resp: 5377

Ion	Ratio	Lower	Upper
91	100		
106	47.2	19.2	79.2

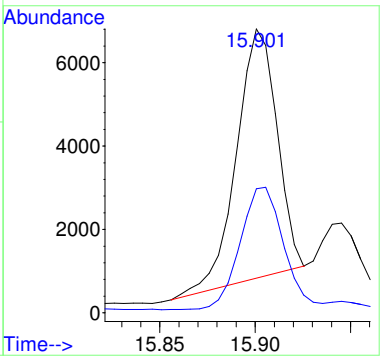


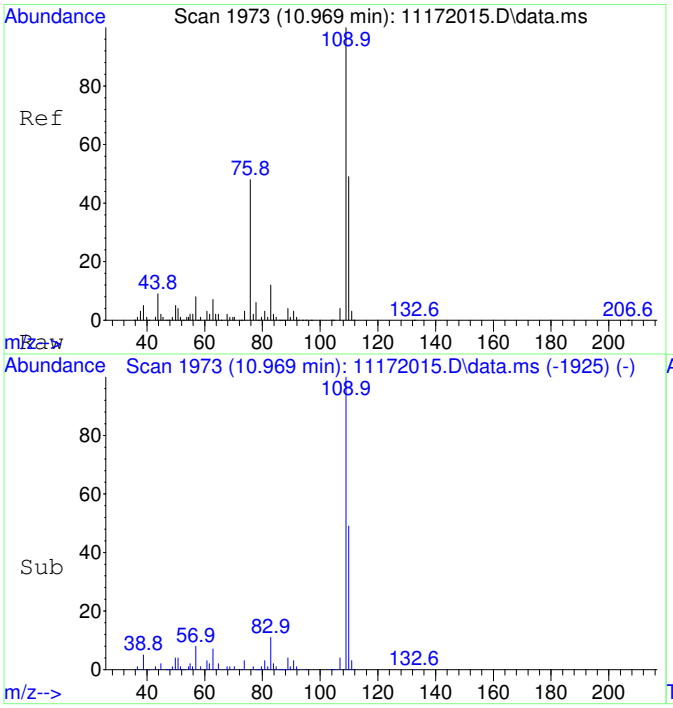


#23
1,2,4-Trimethylbenzene
Concen: 51.77 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion:105 Resp: 8935

Ion	Ratio	Lower	Upper
105	100		
120	55.2	17.2	77.2

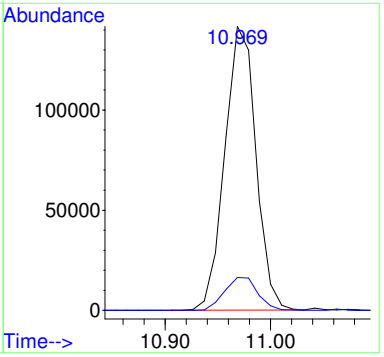


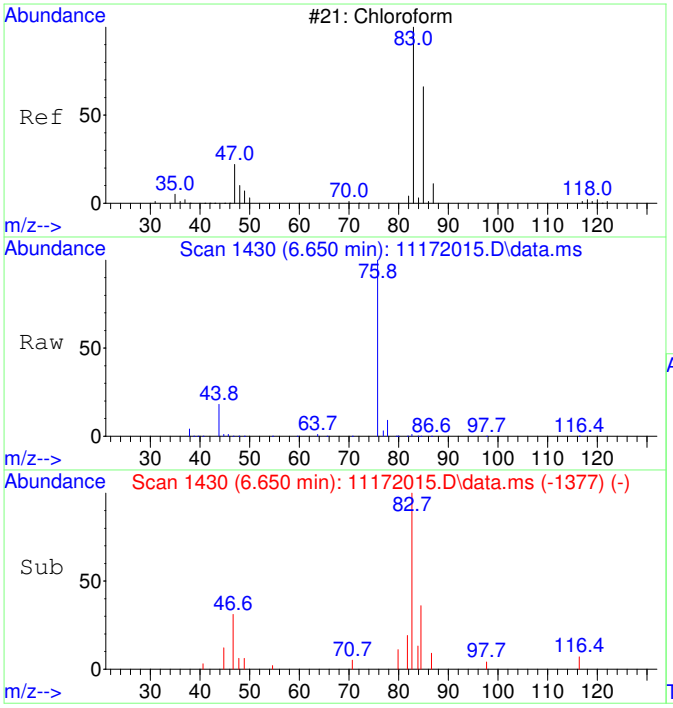


#25
2-Fluorotoluene SCAN
Concen: 4860.76 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion:109 Resp: 291614

Ion	Ratio	Lower	Upper
109	100		
83	12.4	0.0	43.8

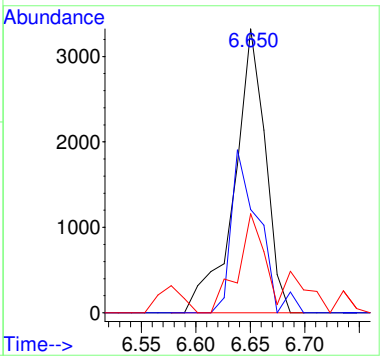


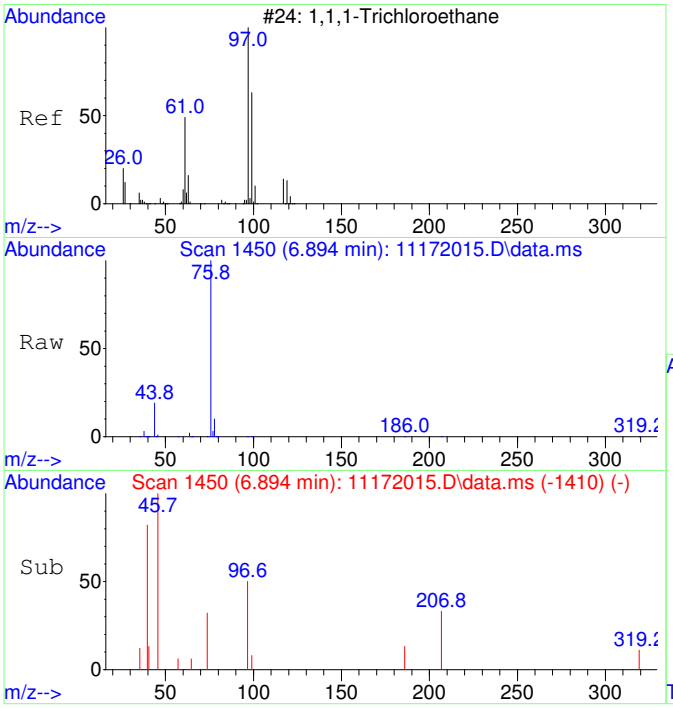


#30
Chloroform SCAN
Concen: 310.19 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 83 Resp: 6577

Ion	Ratio	Lower	Upper
83	100		
85	50.6	34.6	94.6
47	41.3	0.0	53.4

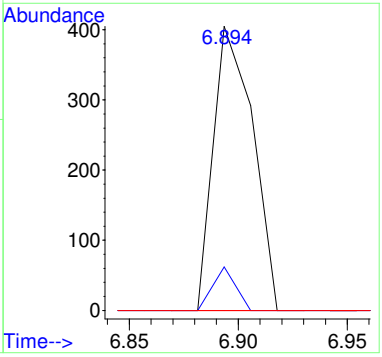


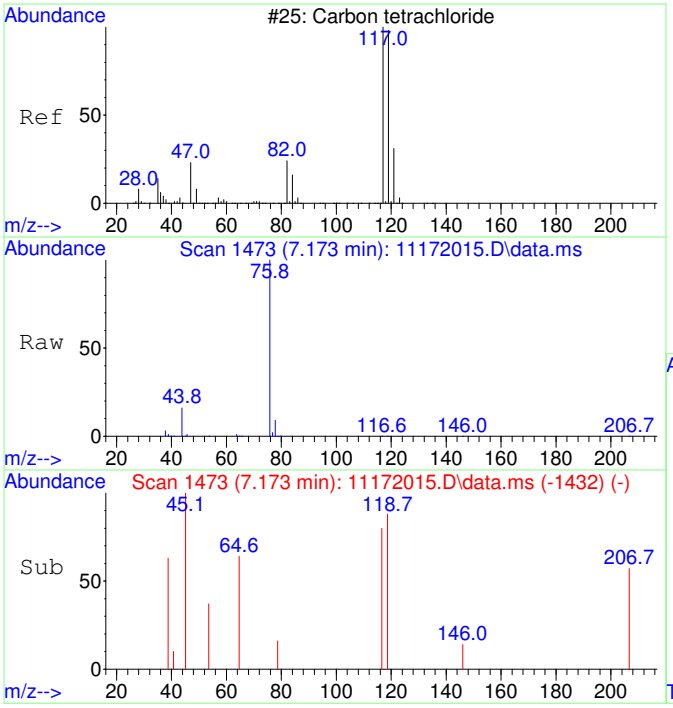


#31
1,1,1-Trichloroethane SCAN
Concen: 26.34 ug/L
RT: 6.894 min Scan# 1450
Delta R.T. -0.012 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 97 Resp: 509

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	0.0	18.0	78.0#

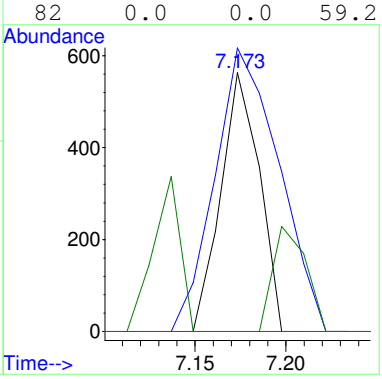


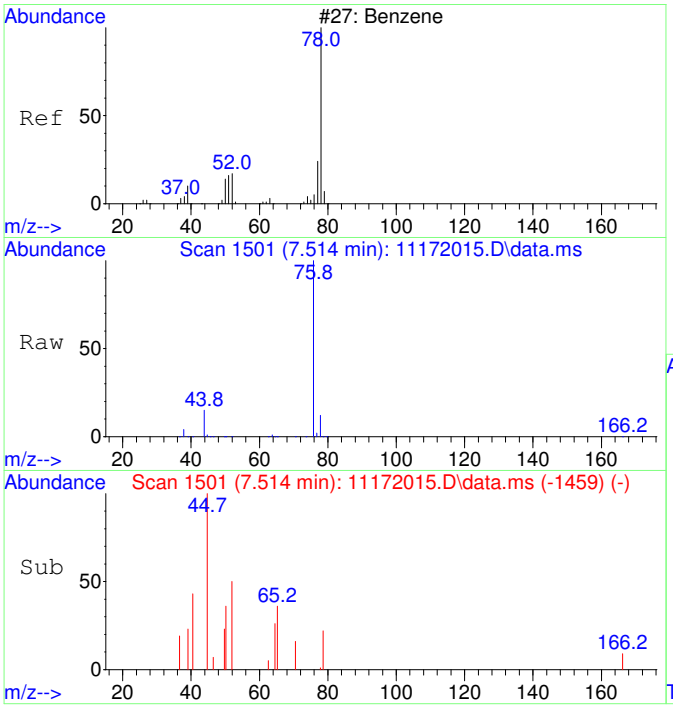


#32
Carbon tetrachloride SCAN
Concen: 41.23 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion:117 Resp: 831

Ion	Ratio	Lower	Upper
117	100		
119	182.4	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

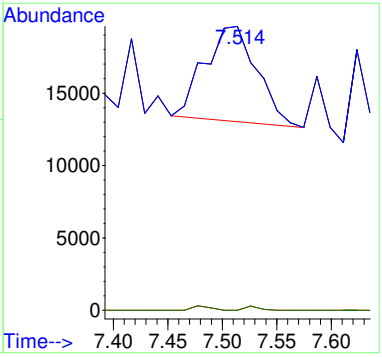


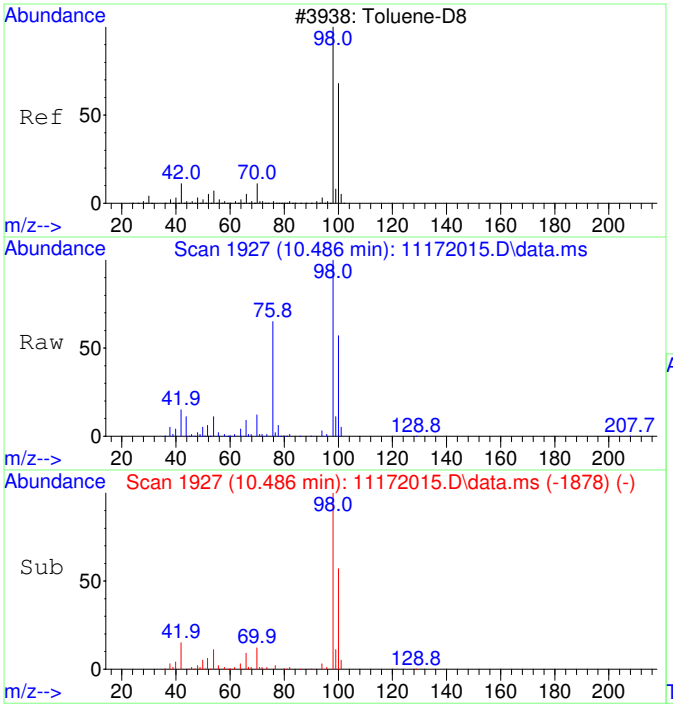


#33
Benzene SCAN
Concen: 405.16 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 78 Resp: 21555

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.2	0.0	47.9
51	1.2	0.0	44.1

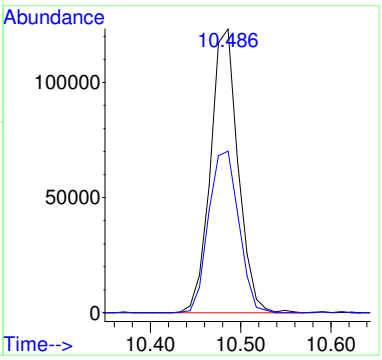


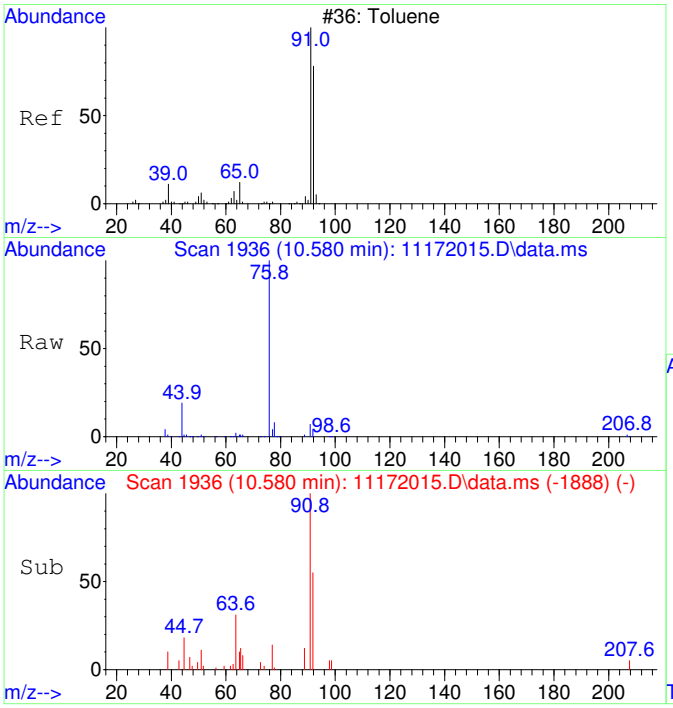


#36
Toluene-d8 SCAN
Concen: 4470.79 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 98 Resp: 262309

Ion	Ratio	Lower	Upper
98	100		
100	62.1	40.0	100.0

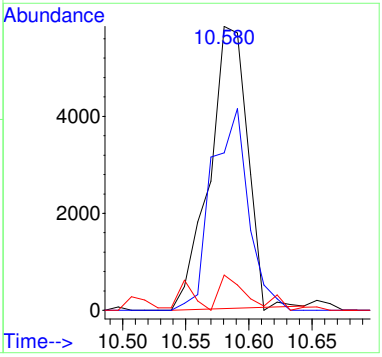


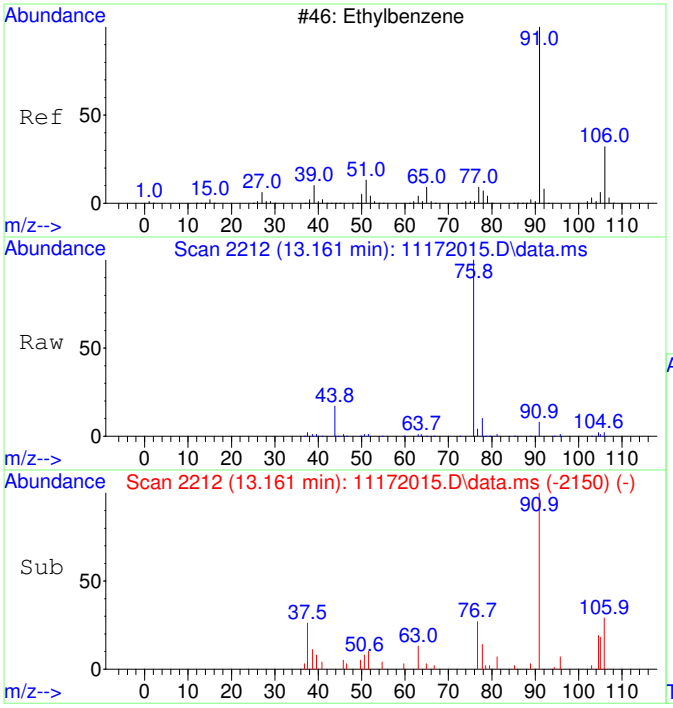


#37
Toluene SCAN
Concen: 161.50 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 91 Resp: 12135

Ion	Ratio	Lower	Upper
91	100		
92	69.8	28.3	88.3
65	10.5	0.0	41.0

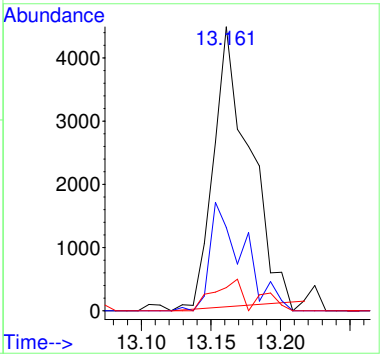


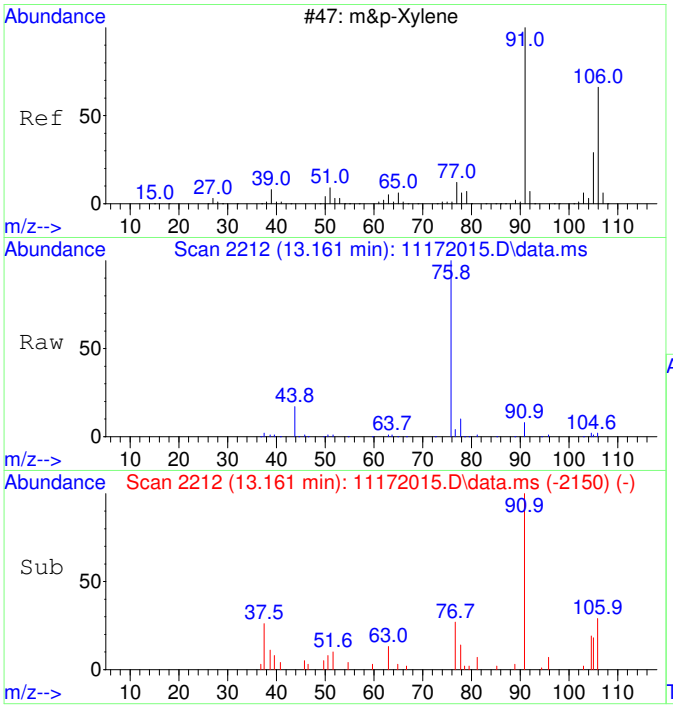


#42
Ethylbenzene SCAN
Concen: 57.86 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 91 Resp: 7920

Ion	Ratio	Lower	Upper
91	100		
106	36.6	23.1	83.1
51	8.6	0.0	40.1

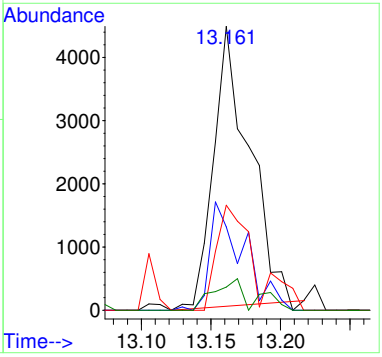


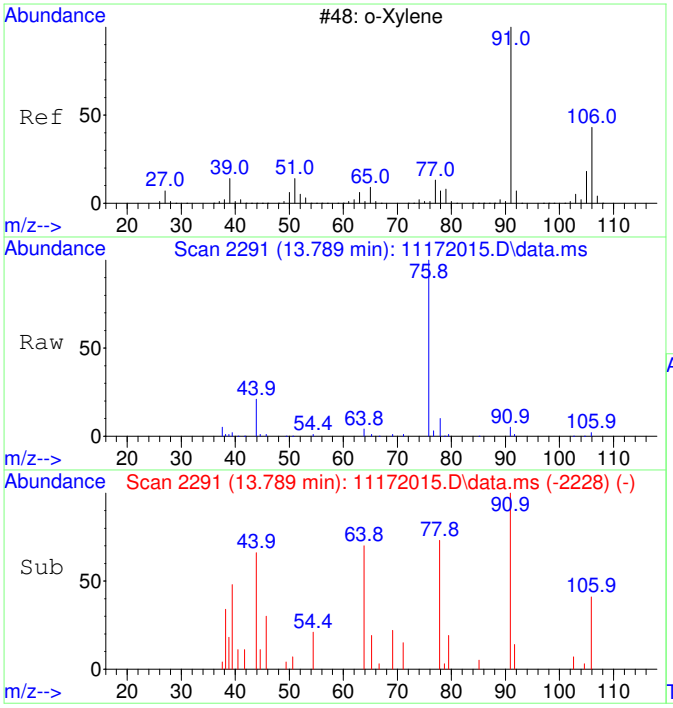


#43
m&p-Xylene SCAN
Concen: 57.86 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 91 Resp: 7920

Ion	Ratio	Lower	Upper
91	100		
106	36.6	23.1	83.1
105	40.3	0.0	54.7
51	8.6	0.0	40.1

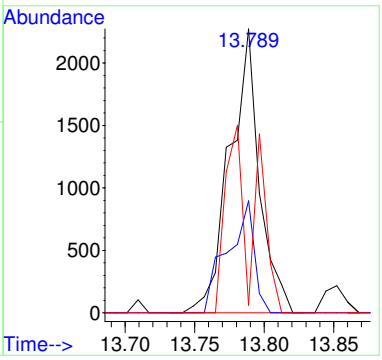


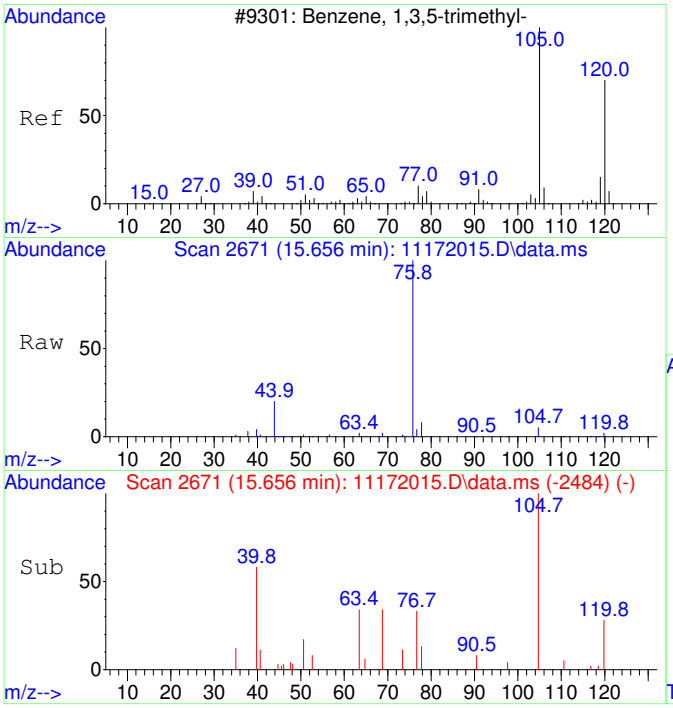


#44
o-Xylene SCAN
Concen: 46.16 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion: 91 Resp: 3382

Ion	Ratio	Lower	Upper
91	100		
106	35.5	18.0	78.0
105	36.7	0.0	56.6

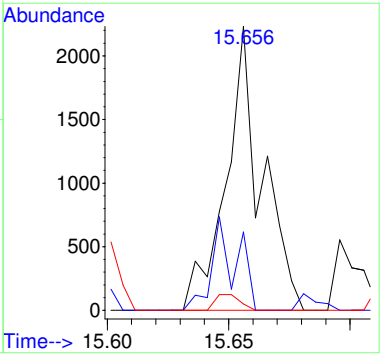


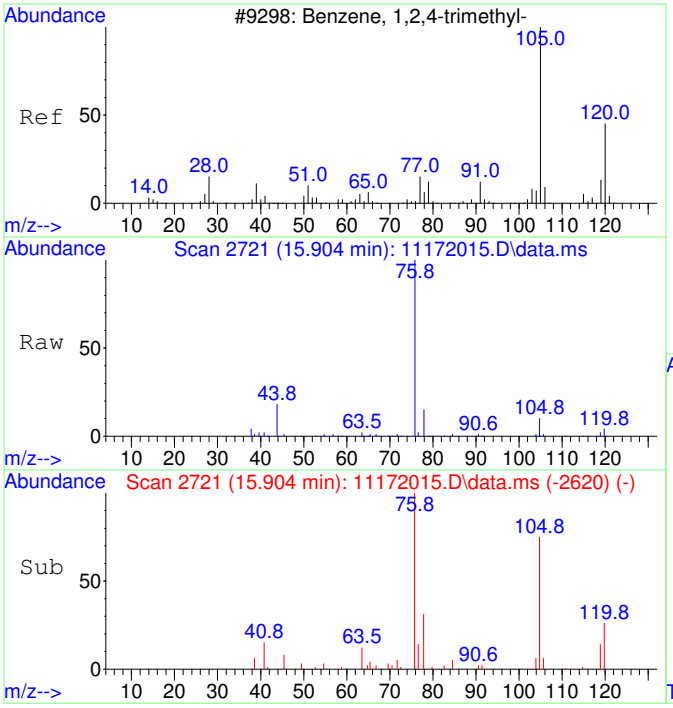


#46
1,3,5-Trimethylbenzene SCAN
Concen: 29.55 ug/L
RT: 15.656 min Scan# 2671
Delta R.T. 0.313 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion:105 Resp: 2282

Ion	Ratio	Lower	Upper
105	100		
120	22.7	18.3	78.3
119	3.9	0.0	43.1

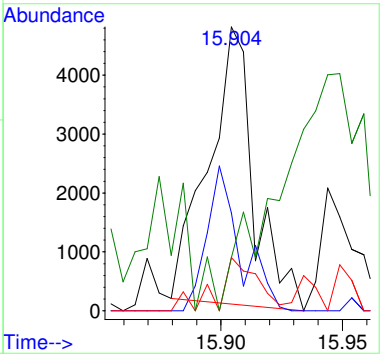




#47
1,2,4-Trimethylbenzene SCAN
Concen: 77.76 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172015.D
Acq: 17 Nov 2020 13:25

Tgt Ion:105 Resp: 6144

Ion	Ratio	Lower	Upper
105	100		
120	38.4	16.9	76.9
119	11.4	0.0	41.9
77	0.0	0.0	42.3



2011017-05

Quantitation Report (Not Reviewed)

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Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172016.D
Acq On : 17 Nov 2020 13:49
InstName : AG5975C
Operator : TD
Sample : 2011017-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 18 06:15:48 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	603989	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	517751	4378.91 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.58%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.089	61	9265	384.15 ug/L	82
3] trans-1,2-Dichloroethene	4.356	61	12677	454.94 ug/L	94
4] 1,1-Dichloroethane	5.072	63	10924	314.93 ug/L	94
5] cis-1,2-Dichloroethene	6.081	61	222237	6069.61 ug/L	99
6] Chloroform	6.651	83	310261	8278.80 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	8870	217.94 ug/L	100
8] Carbon tetrachloride	7.174	117	4083	106.59 ug/L	100
9] Benzene	7.503	78	19775	192.70 ug/L	82
10] 1,2-Dichloroethane	7.539	62	2214	60.44 ug/L	55
11] Trichloroethene	8.569	130	881328	28523.91 ug/L **oc**	94
13] Toluene	10.582	91	35213	233.60 ug/L	98
15] Tetrachloroethene	11.432	166	50020	1146.61 ug/L	100
18] Ethylbenzene	12.972	91	9655	52.62 ug/L	95
19] m&p-Xylene	13.162	91	21975	153.24 ug/L	94
20] o-Xylene	13.782	91	12692	82.84 ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	8011	47.29 ug/L	89
25) 2-Fluorotoluene SCAN	10.969	109	279568	4748.28 ug/L	97
26) 1,1-Dichloroethene SCAN	3.118	61	1274	101.89 ug/L	72
27) trans-1,2-Dichloroethe...	4.354	61	6719	434.25 ug/L #	62
28) 1,1-Dichloroethane SCAN	5.091	63	3765	210.26 ug/L	69
29) cis-1,2-Dichloroethene...	6.086	61	128661	6706.22 ug/L #	83
30) Chloroform SCAN	6.650	83	170883	8211.92 ug/L	91
31) 1,1,1-Trichloroethane ...	6.918	97	5374	283.39 ug/L	84
32) Carbon tetrachloride SCAN	7.173	117	814	41.15 ug/L #	1
33) Benzene SCAN	7.514	78	31376	600.93 ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	750	38.90 ug/L #	1
35) Trichloroethene SCAN	8.568	130	411579	28684.96 ug/L	86
36) Toluene-d8 SCAN	10.486	98	265952	4618.77 ug/L	93
37) Toluene SCAN	10.580	91	20251	274.62 ug/L	96
38) 1,1,2-Trichloroethane ...	11.231	97	649	39.21 ug/L #	33
39) Tetrachloroethene SCAN	11.430	166	23529	1328.12 ug/L	95
42) Ethylbenzene SCAN	13.161	91	13952	103.85 ug/L	87
43) m&p-Xylene SCAN	13.161	91	13952	103.85 ug/L	85
44) o-Xylene SCAN	13.789	91	5888	81.88 ug/L	86
46) 1,3,5-Trimethylbenzene...	15.353	105	2173	28.67 ug/L #	60
47) 1,2,4-Trimethylbenzene...	15.904	105	3377	43.55 ug/L #	63

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172016.D
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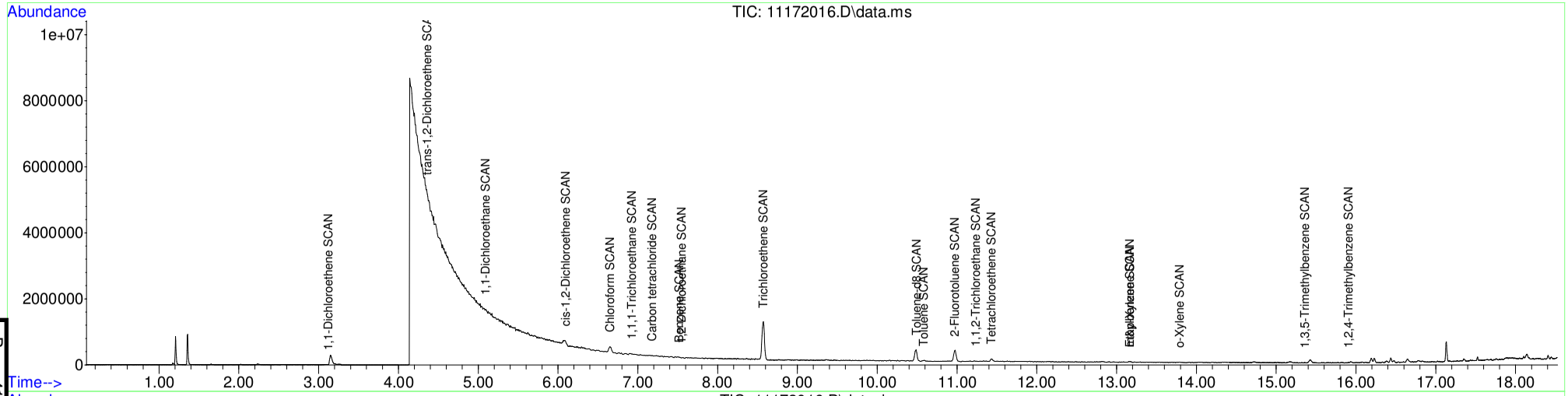

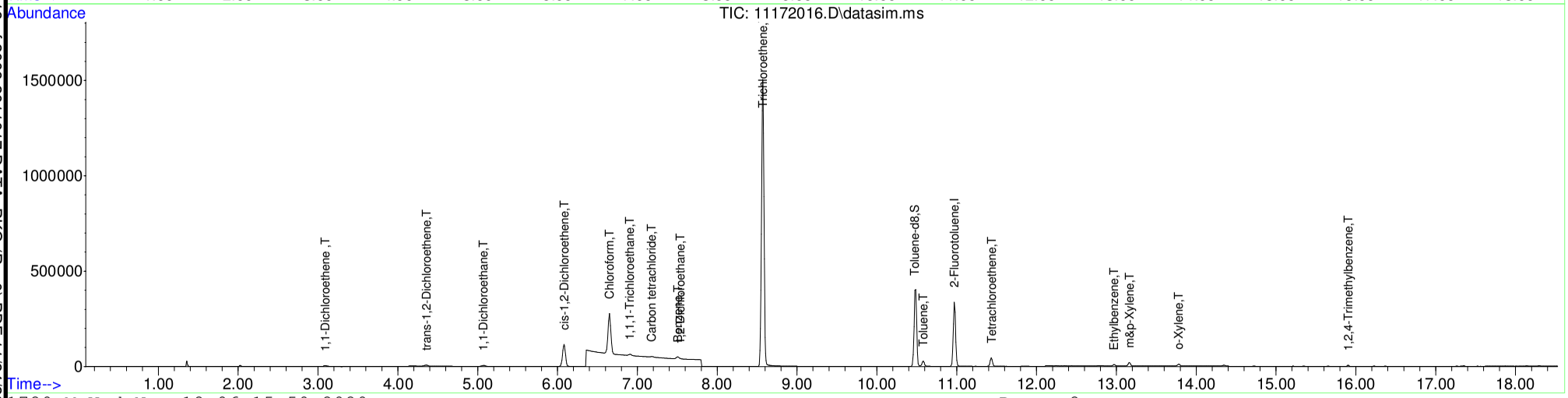

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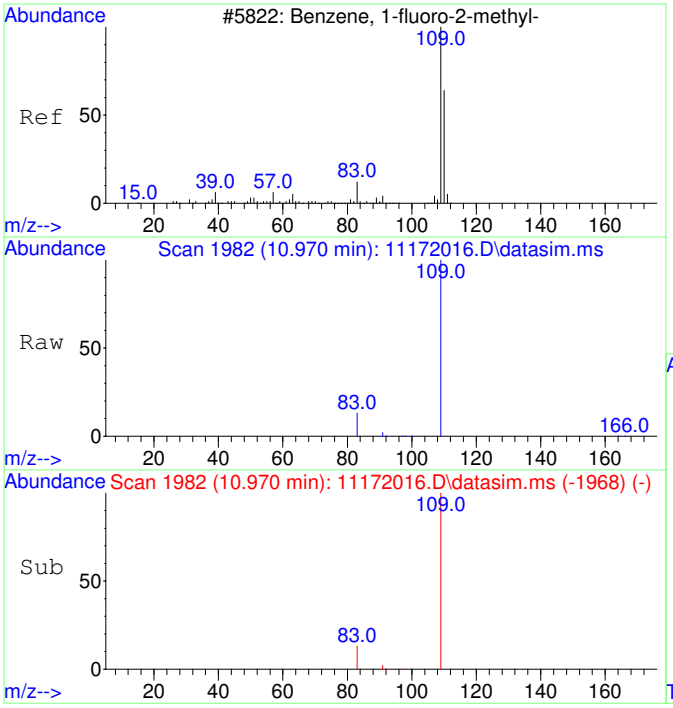
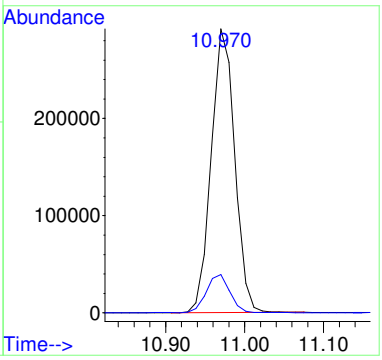
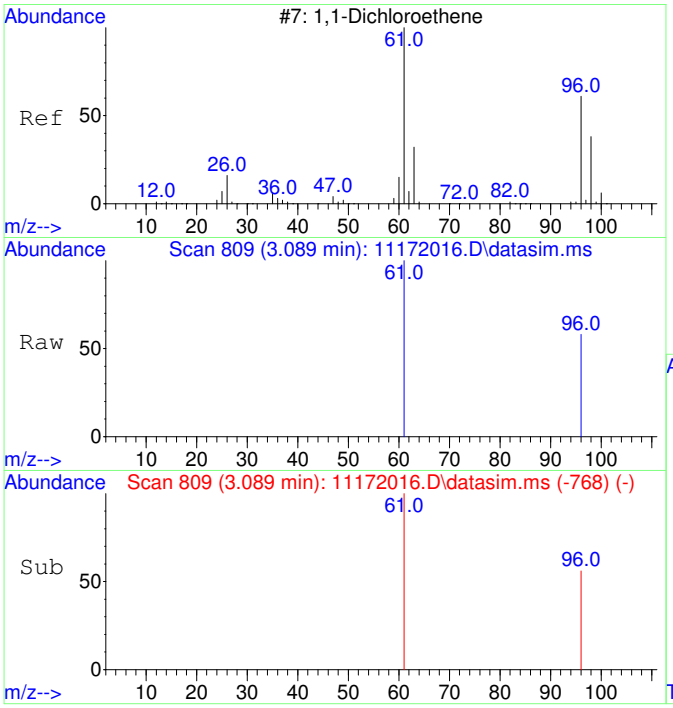


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:109 Resp: 603989

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

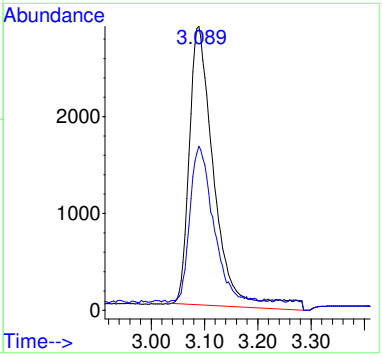




#2
1,1-Dichloroethene
Concen: 384.15 ug/L
RT: 3.089 min Scan# 809
Delta R.T. 0.003 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 61 Resp: 9265

Ion	Ratio	Lower	Upper
61	100		
96	52.6	37.2	97.2



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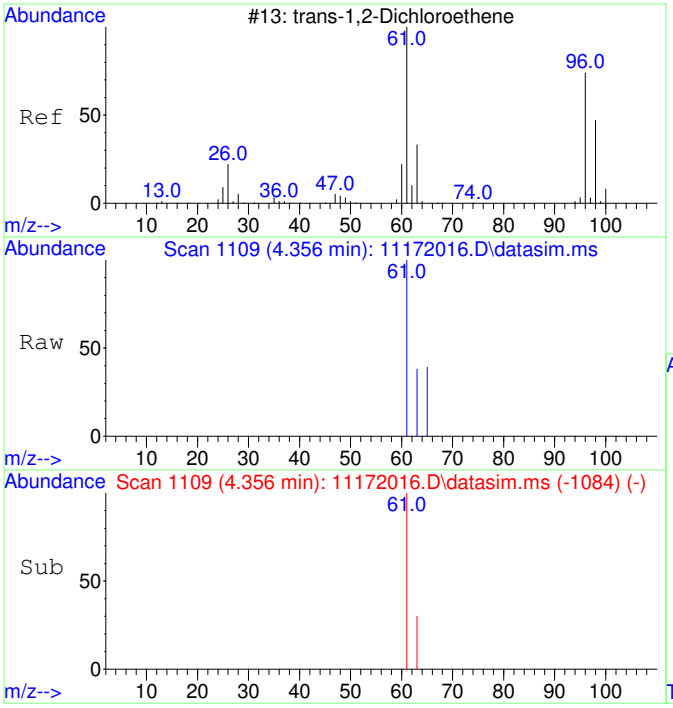
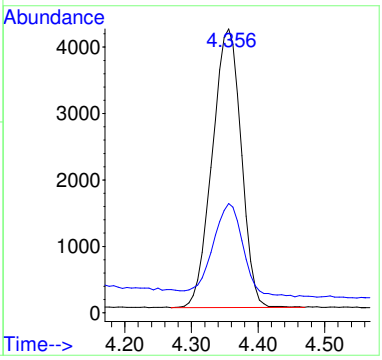
IMPROPER
BASELINE

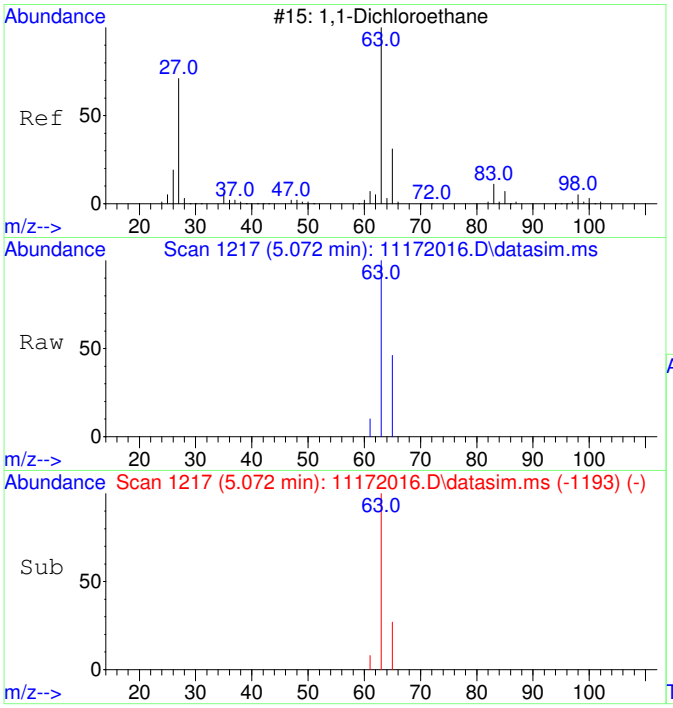


#3
trans-1,2-Dichloroethene
Concen: 454.94 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 61 Resp: 12677

Ion	Ratio	Lower	Upper
61	100		
63	35.6	2.4	62.4

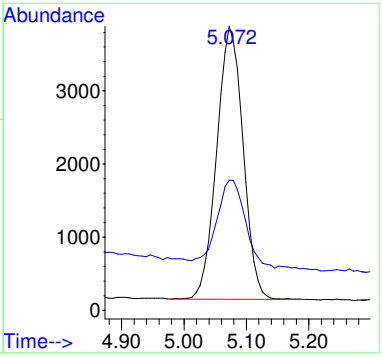


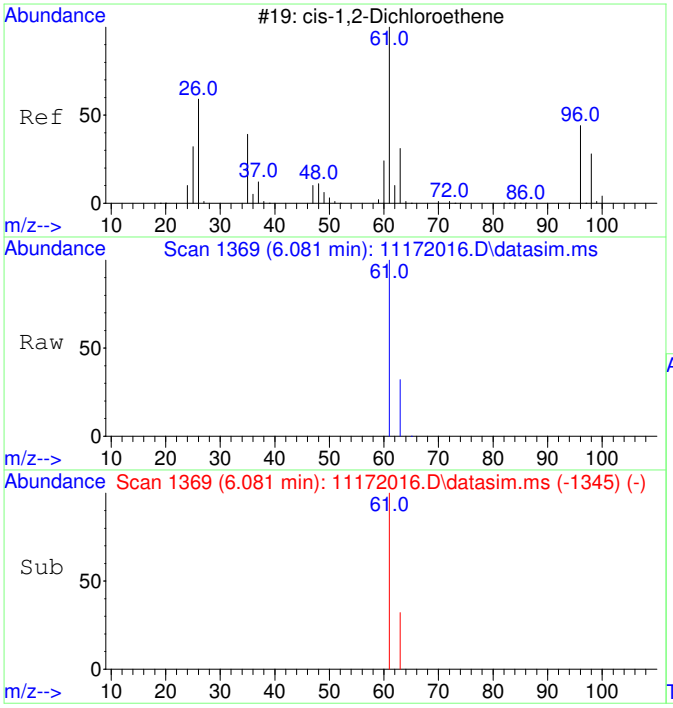


#4
1,1-Dichloroethane
Concen: 314.93 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.006 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 63 Resp: 10924

Ion	Ratio	Lower	Upper
63	100		
65	35.3	1.8	61.8

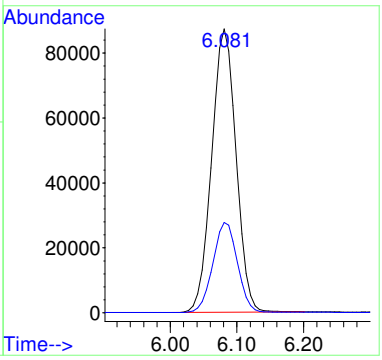


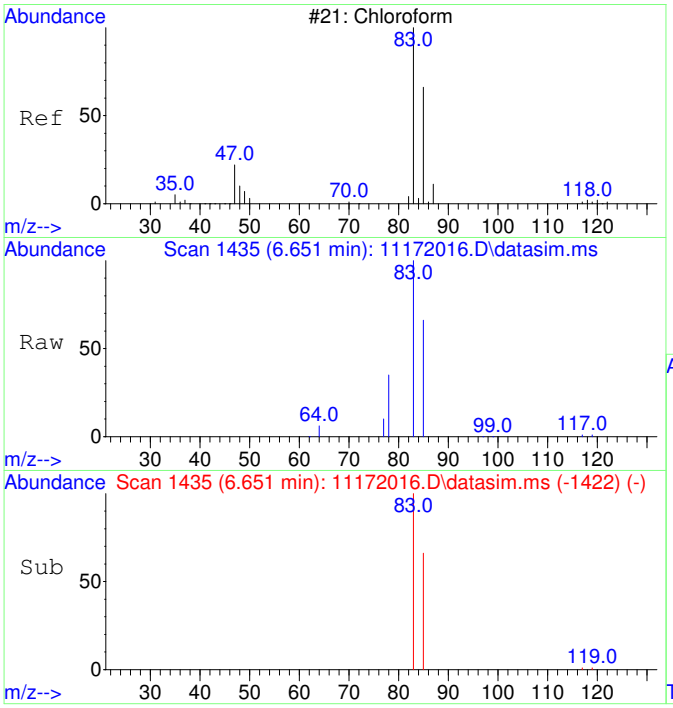


#5
cis-1,2-Dichloroethene
Concen: 6069.61 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.006 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 61 Resp: 222237

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

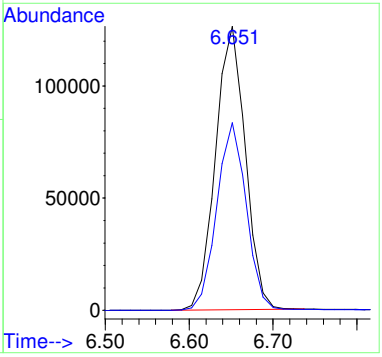


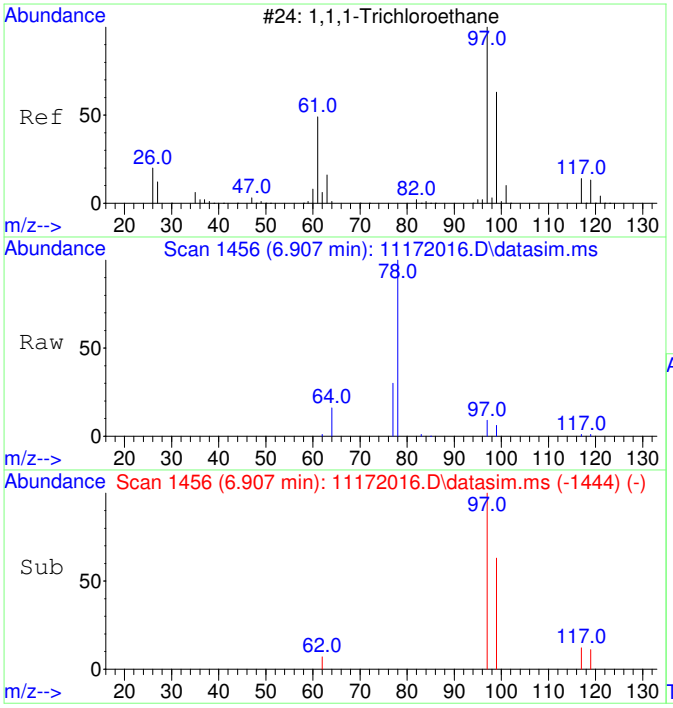


#6
Chloroform
Concen: 8278.80 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 83 Resp: 310261

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.1	95.1

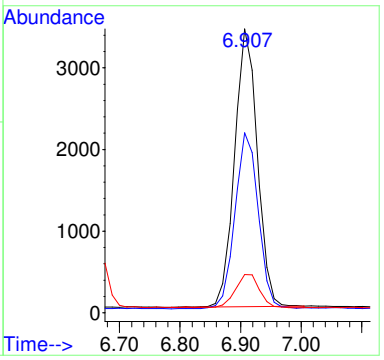


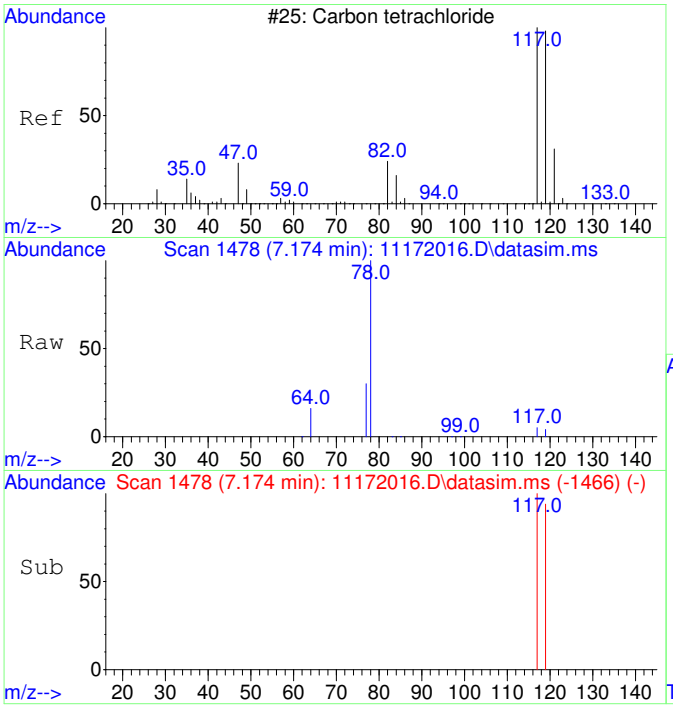


#7
1,1,1-Trichloroethane
Concen: 217.94 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 97 Resp: 8870

Ion	Ratio	Lower	Upper
97	100		
99	64.7	34.6	94.6
117	12.7	0.0	43.2

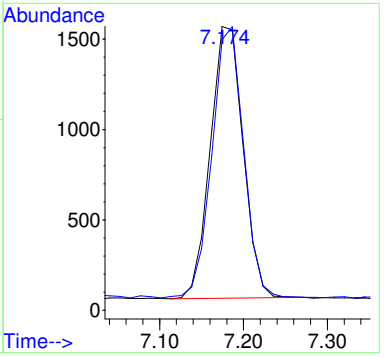


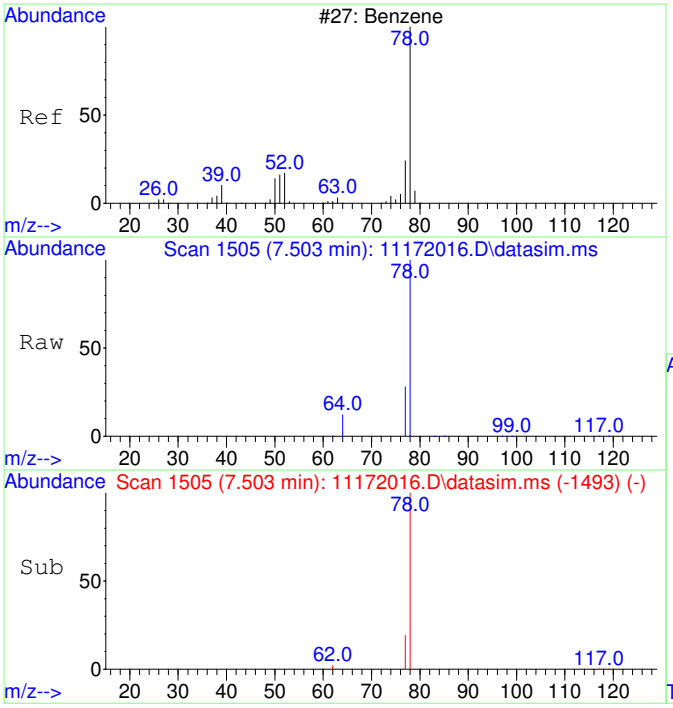


#8
Carbon tetrachloride
Concen: 106.59 ug/L
RT: 7.174 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:117 Resp: 4083

Ion	Ratio	Lower	Upper
117	100		
119	96.1	66.4	126.4

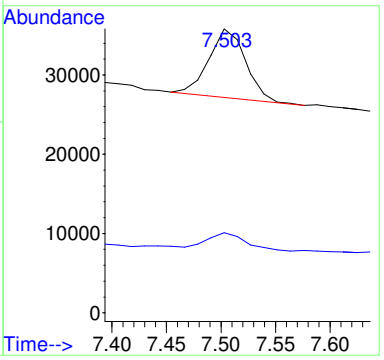


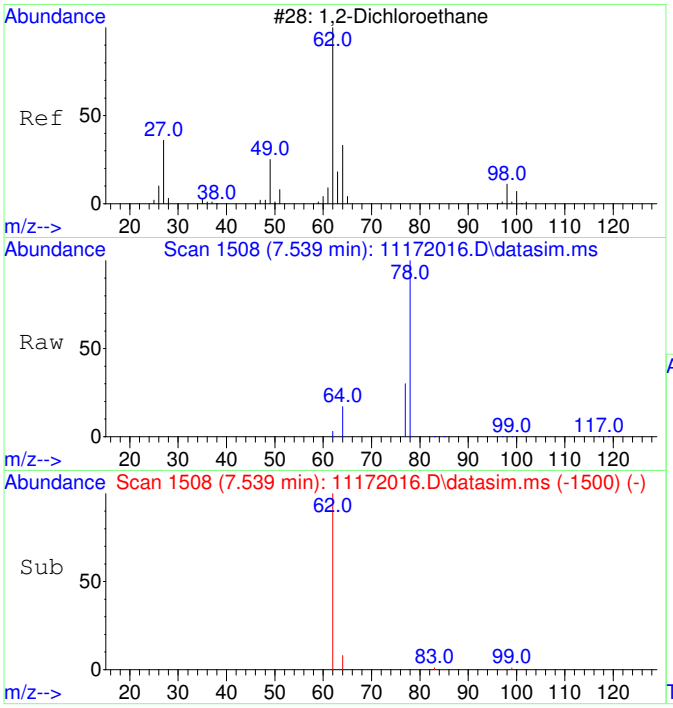


#9
Benzene
Concen: 192.70 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 78 Resp: 19775

Ion	Ratio	Lower	Upper
78	100		
77	32.1	0.0	53.2

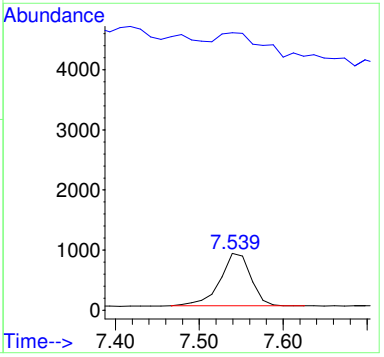


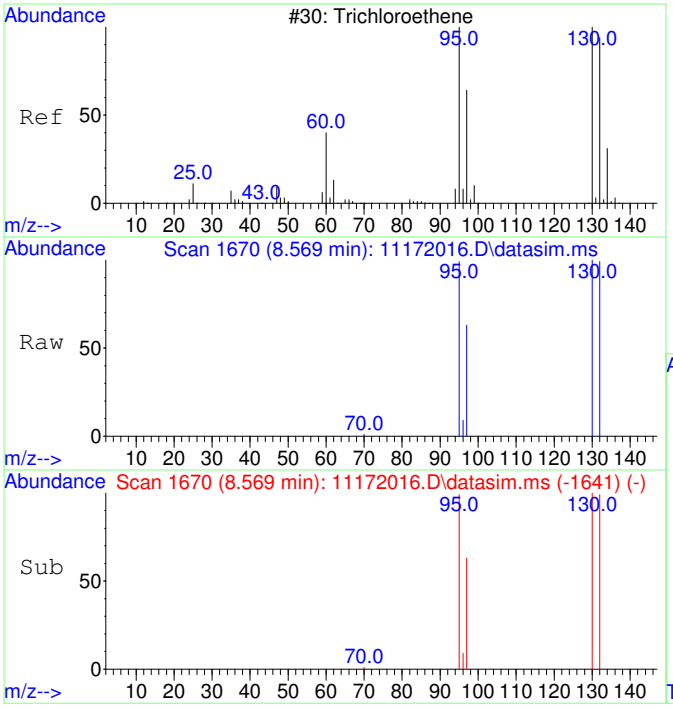


#10
1,2-Dichloroethane
Concen: 60.44 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 62 Resp: 2214

Ion	Ratio	Lower	Upper
62	100		
64	57.5	2.3	62.3

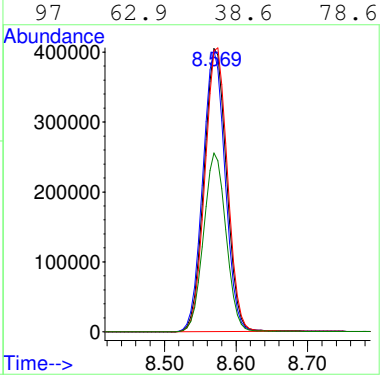


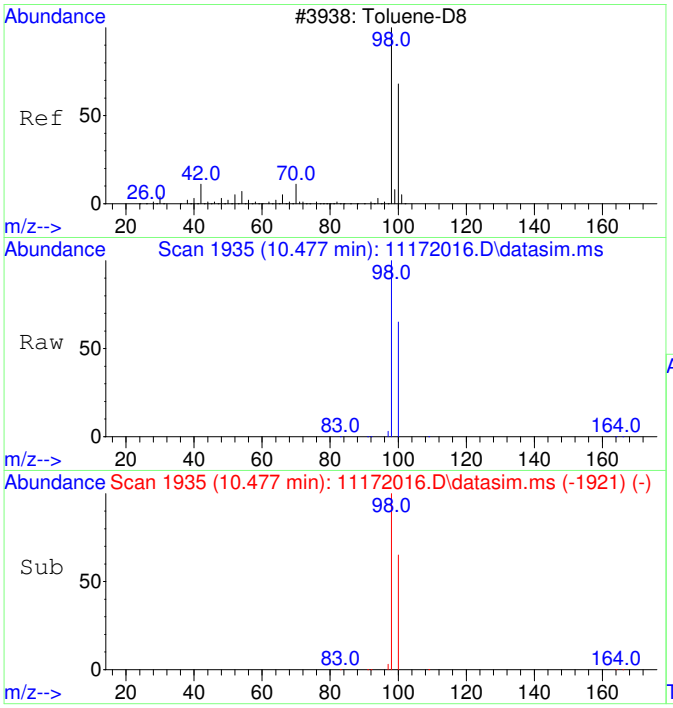


#11
Trichloroethene
Concen: 28523.91 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:130 Resp: 881328

Ion	Ratio	Lower	Upper
130	100		
95	98.6	60.7	120.7
132	100.4	76.0	116.0
97	62.9	38.6	78.6

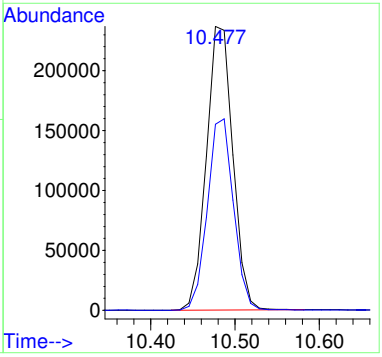


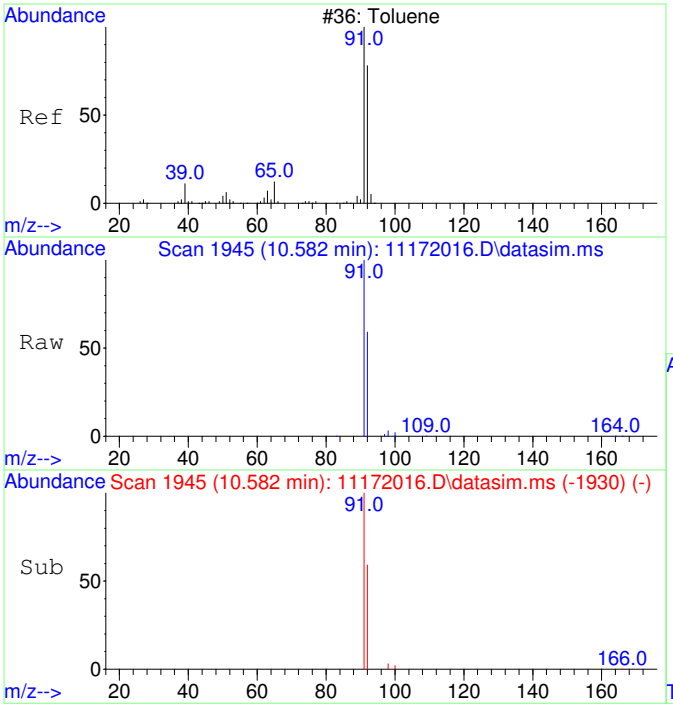


#12
Toluene-d8
Concen: 4378.91 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 98 Resp: 517751

Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1

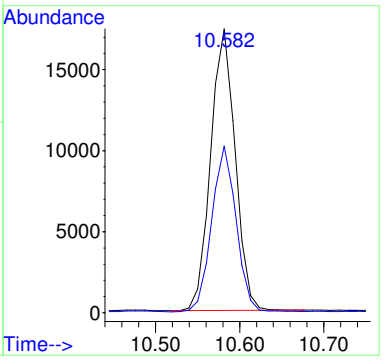


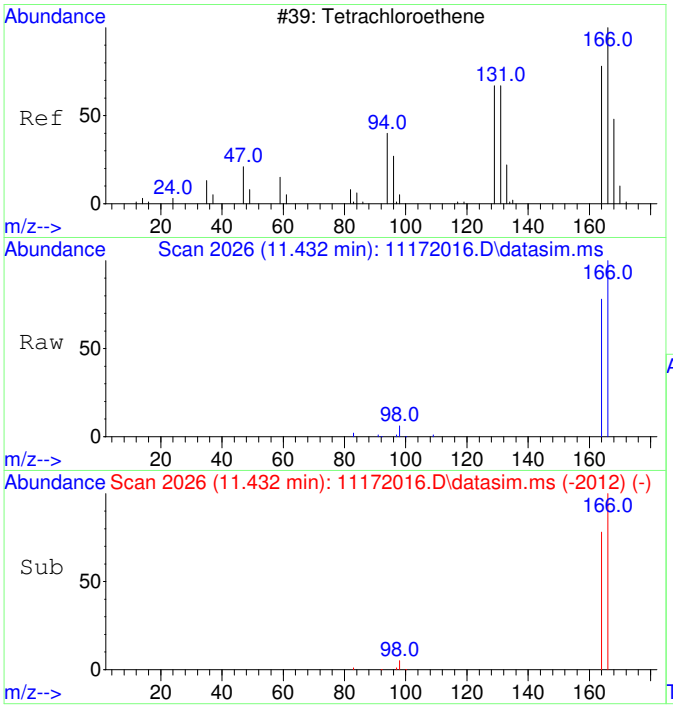


#13
Toluene
Concen: 233.60 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 35213

Ion	Ratio	Lower	Upper
91	100		
92	58.2	29.9	89.9

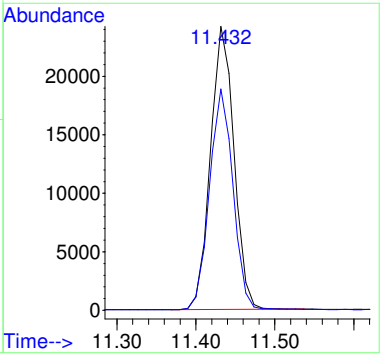


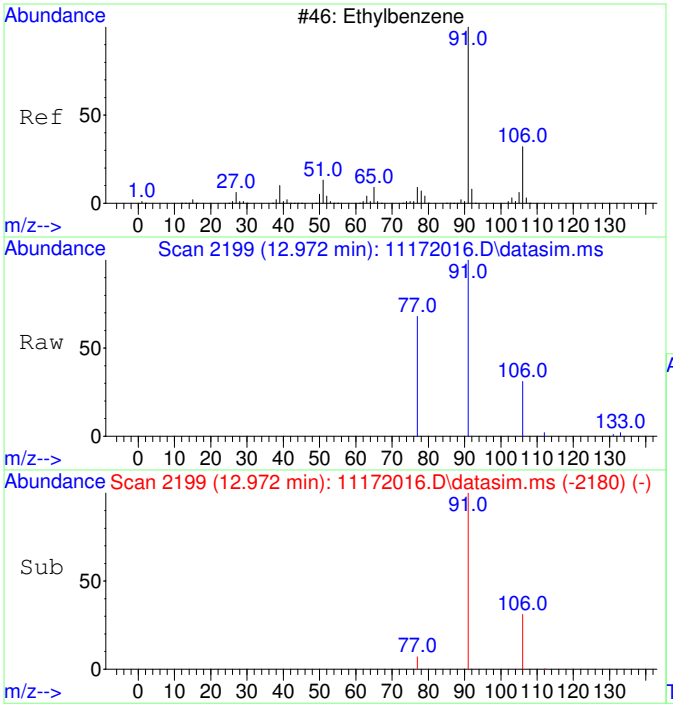


#15
Tetrachloroethene
Concen: 1146.61 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:166 Resp: 50020

Ion	Ratio	Lower	Upper
166	100		
164	77.4	47.8	107.8

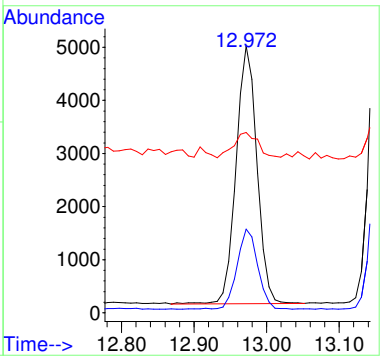


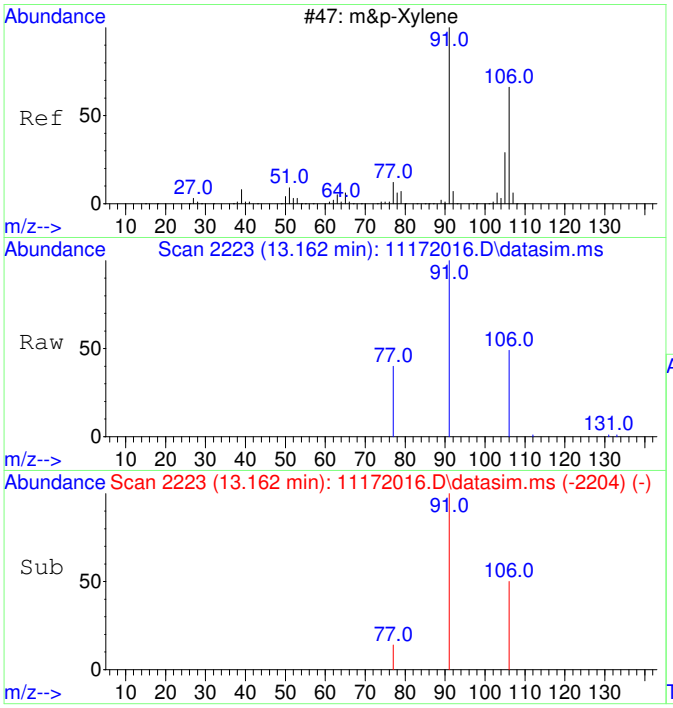


#18
Ethylbenzene
Concen: 52.62 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 9655

Ion	Ratio	Lower	Upper
91	100		
106	31.0	3.0	63.0
77	11.2	0.0	38.2

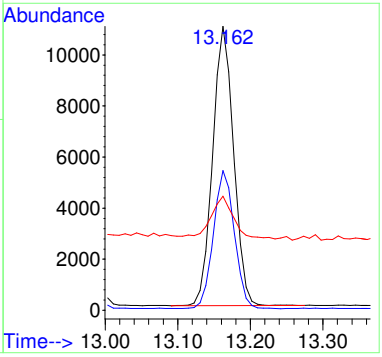


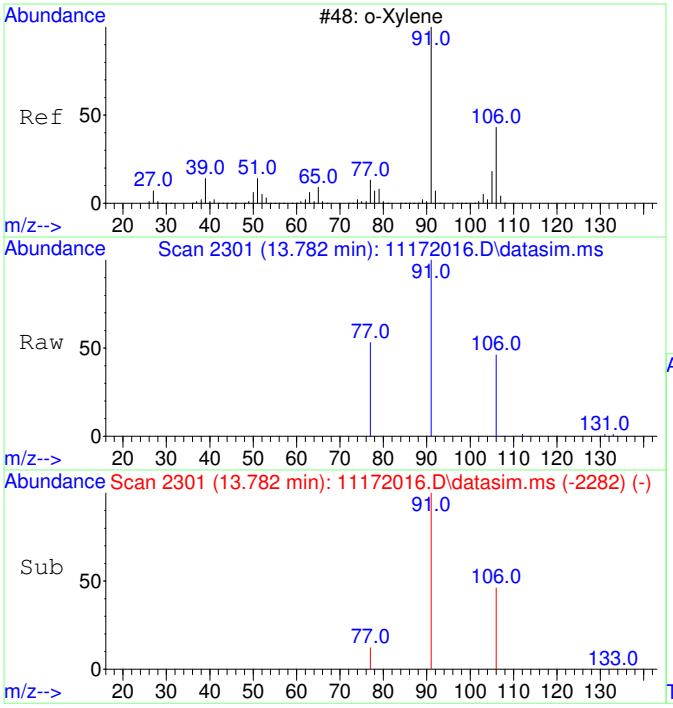


#19
m&p-Xylene
Concen: 153.24 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 21975

Ion	Ratio	Lower	Upper
91	100		
106	49.3	22.2	82.2
77	16.9	0.0	42.4

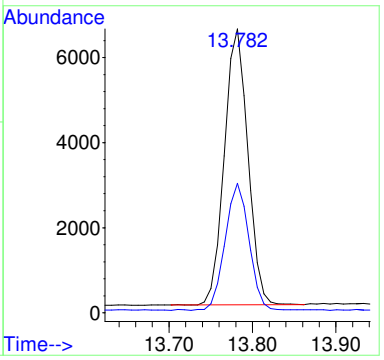


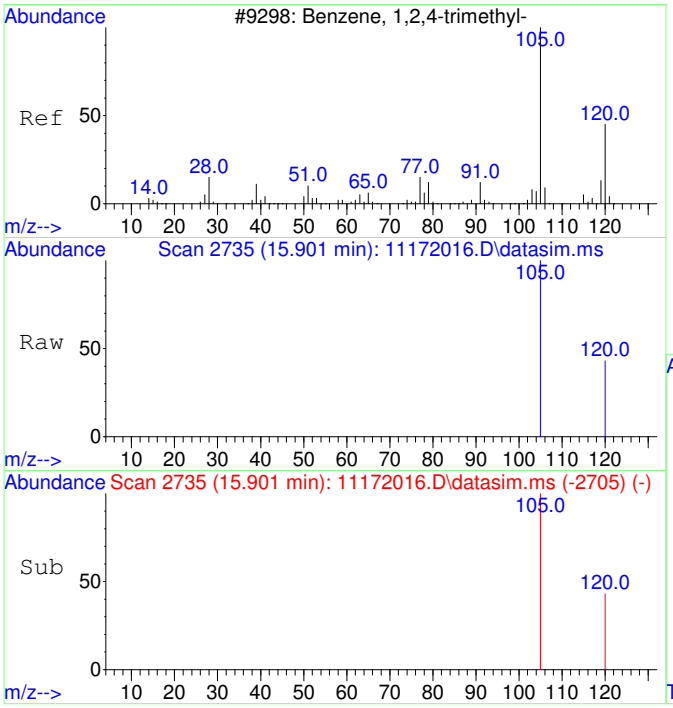


#20
o-Xylene
Concen: 82.84 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 12692

Ion	Ratio	Lower	Upper
91	100		
106	46.5	19.2	79.2

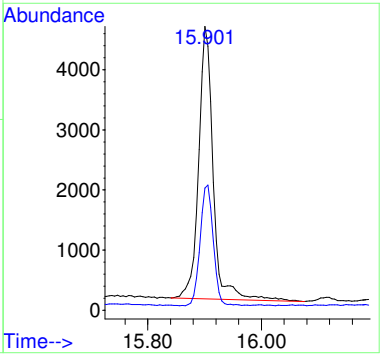


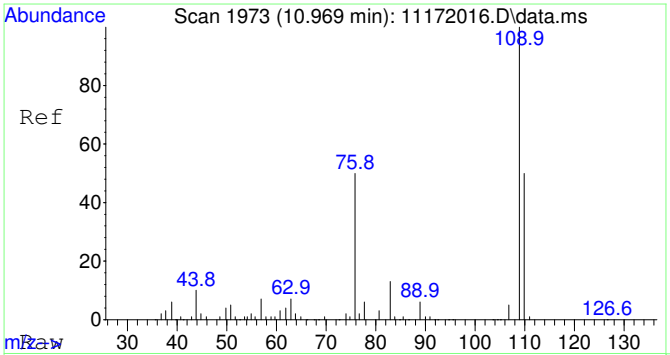


#23
1,2,4-Trimethylbenzene
Concen: 47.29 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:105 Resp: 8011

Ion	Ratio	Lower	Upper
105	100		
120	40.0	17.2	77.2

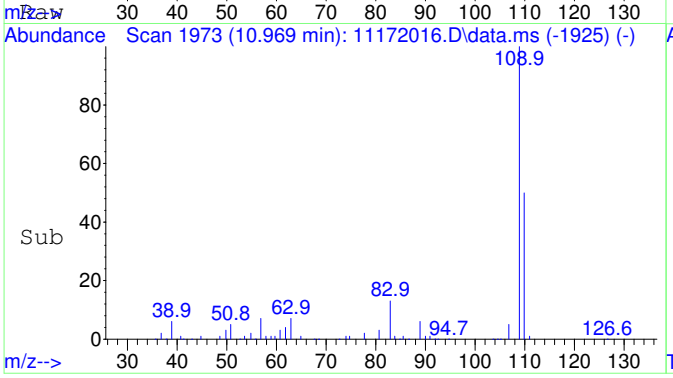


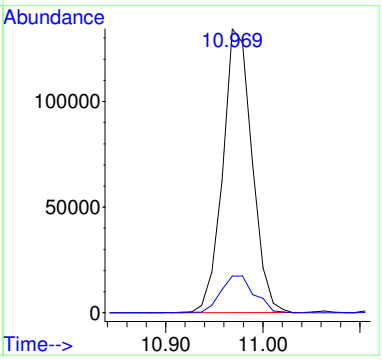


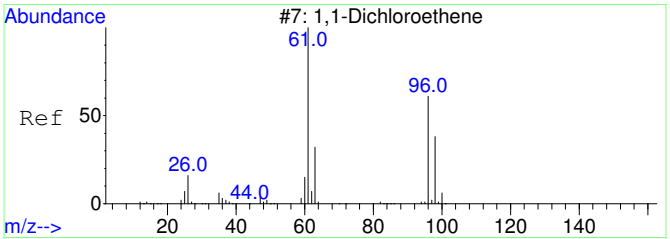
#25
2-Fluorotoluene SCAN
Concen: 4748.28 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:109 Resp: 279568

Ion	Ratio	Lower	Upper
109	100		
83	15.1	0.0	43.8



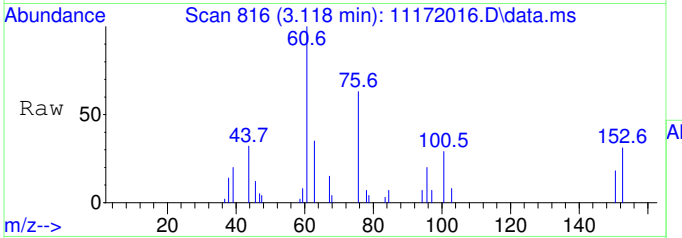


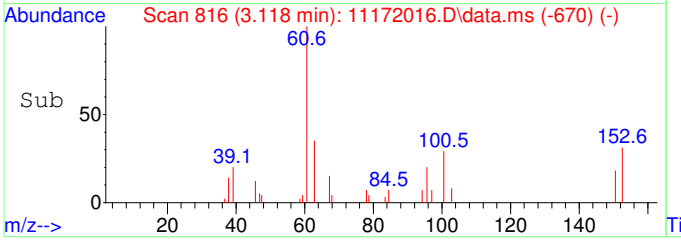


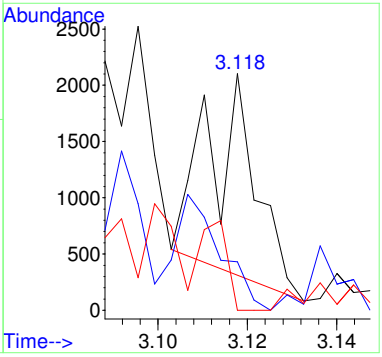
#26
1,1-Dichloroethene SCAN
Concen: 101.89 ug/L
RT: 3.118 min Scan# 816
Delta R.T. 0.041 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

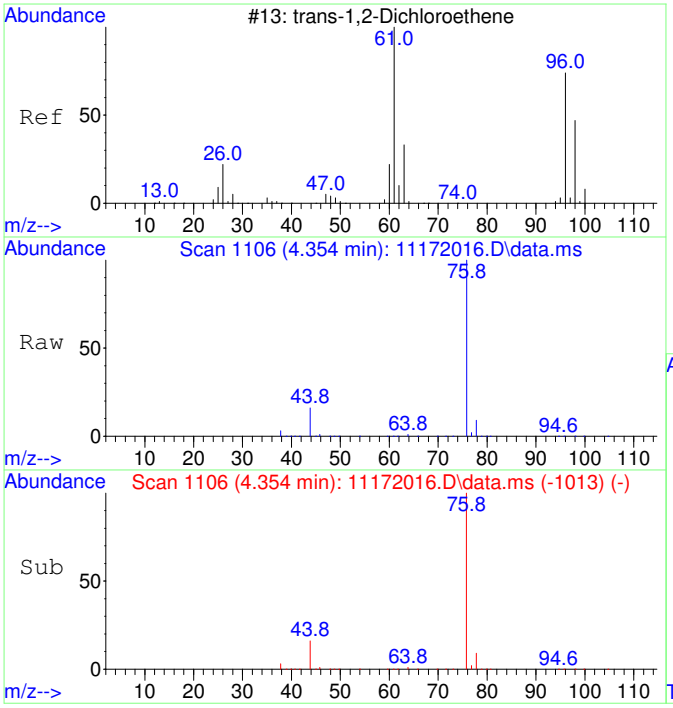
Tgt Ion: 61 Resp: 1274

Ion	Ratio	Lower	Upper
61	100		
96	42.9	33.1	93.1
98	21.9	11.2	71.2





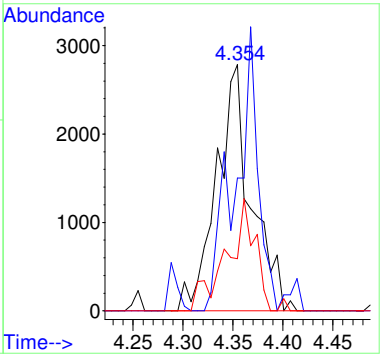


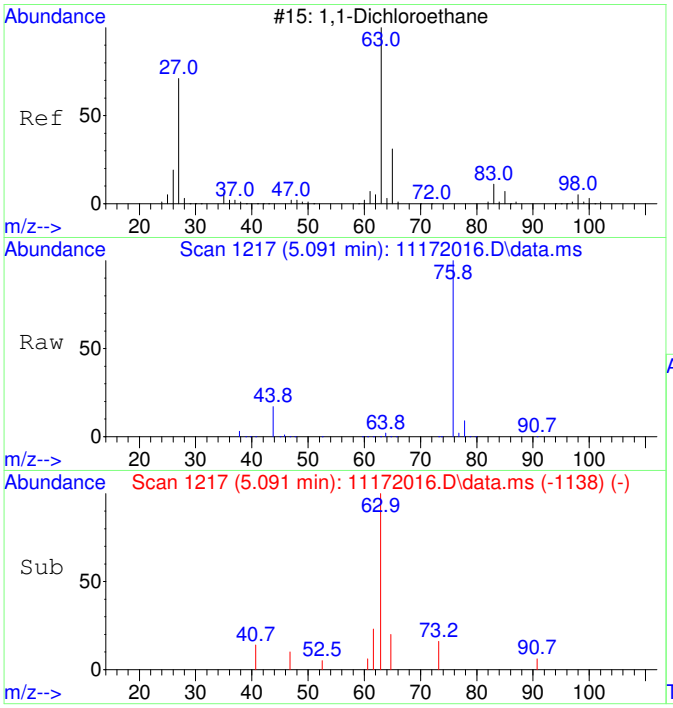


#27
trans-1,2-Dichloroethene SCAN
Concen: 434.25 ug/L
RT: 4.354 min Scan# 1106
Delta R.T. 0.006 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 61 Resp: 6719

Ion	Ratio	Lower	Upper
61	100		
96	34.7	49.0	109.0#
98	37.1	20.5	80.5

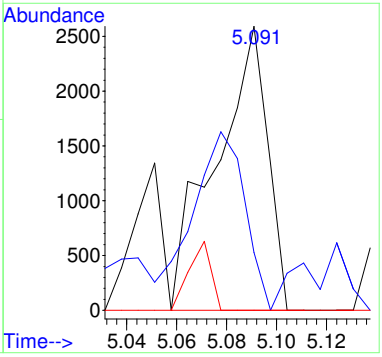


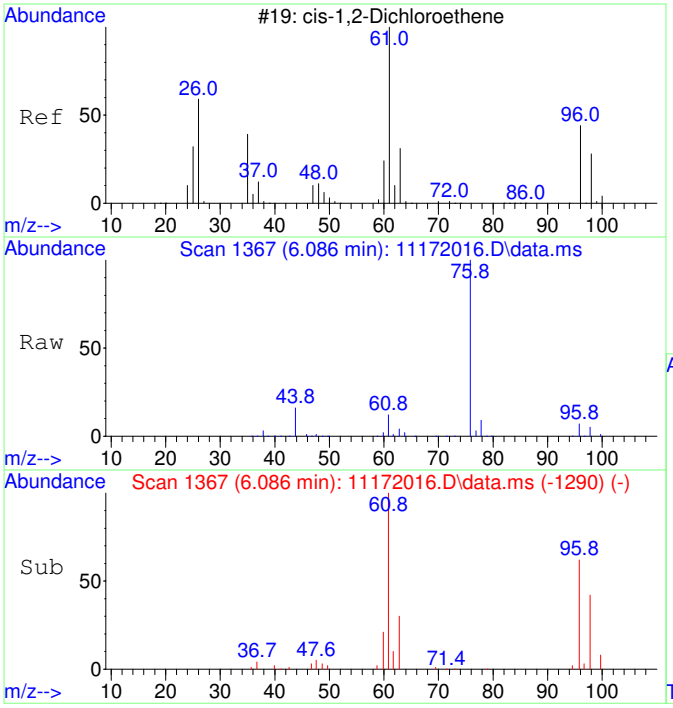


#28
1,1-Dichloroethane SCAN
Concen: 210.26 ug/L
RT: 5.091 min Scan# 1217
Delta R.T. 0.026 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 63 Resp: 3765

Ion	Ratio	Lower	Upper
63	100		
65	53.3	1.3	61.3
83	10.3	0.0	45.9

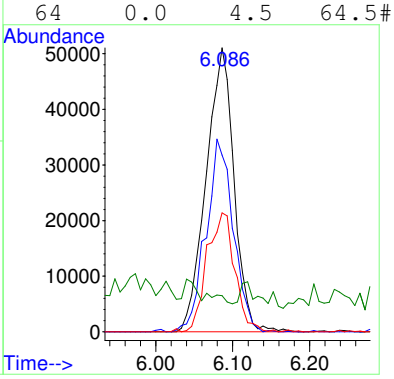


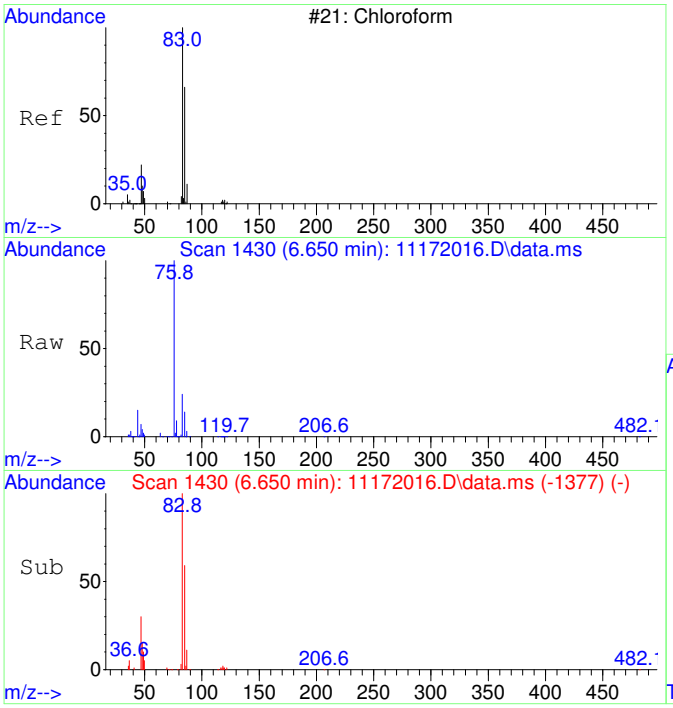


#29
cis-1,2-Dichloroethene SCAN
Concen: 6706.22 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 61 Resp: 128661

Ion	Ratio	Lower	Upper
61	100		
96	66.3	39.9	99.9
98	41.7	13.5	73.5
64	0.0	4.5	64.5#

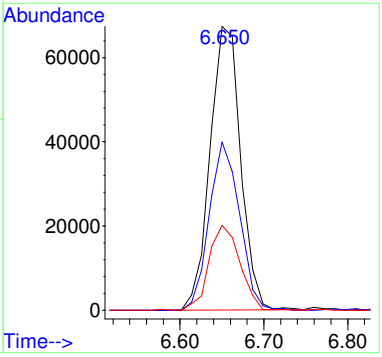


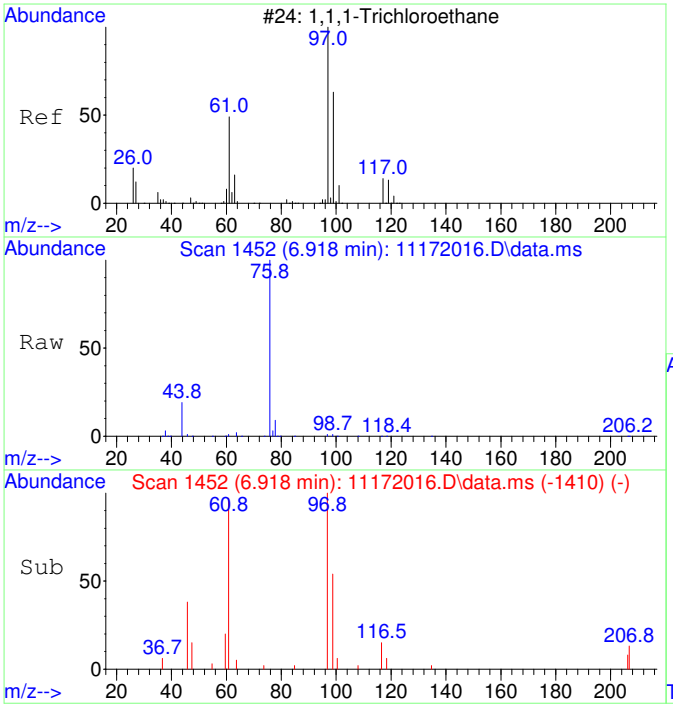


#30
Chloroform SCAN
Concen: 8211.92 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 83 Resp: 170883

Ion	Ratio	Lower	Upper
83	100		
85	58.8	34.6	94.6
47	30.5	0.0	53.4

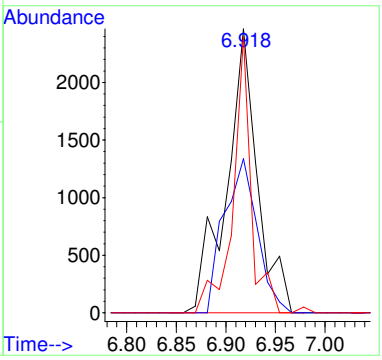


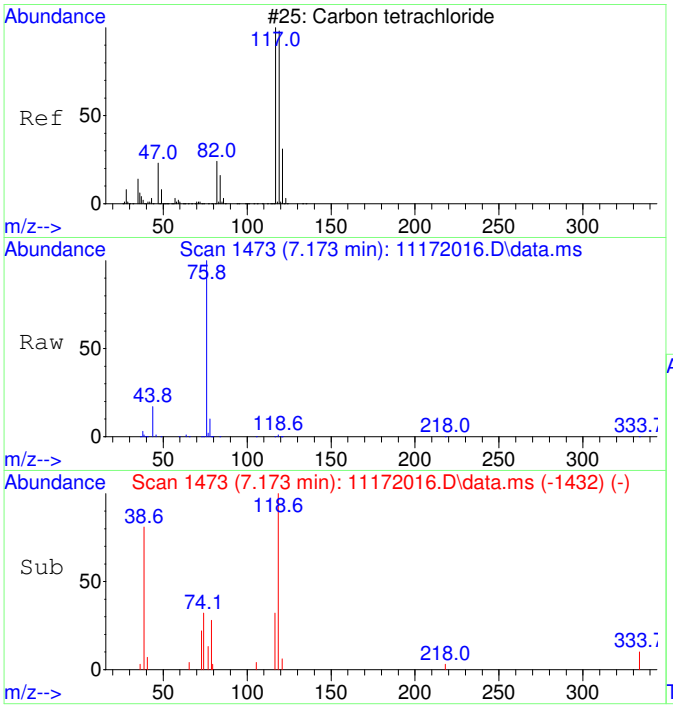


#31
1,1,1-Trichloroethane SCAN
Concen: 283.39 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 97 Resp: 5374

Ion	Ratio	Lower	Upper
97	100		
99	58.1	43.6	103.6
61	56.4	18.0	78.0

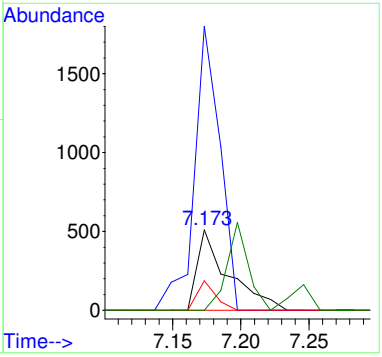


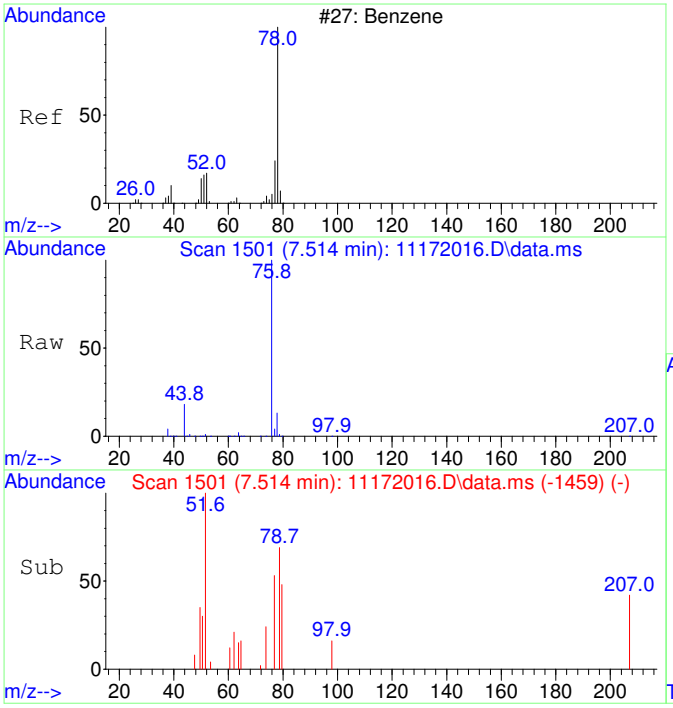


#32
Carbon tetrachloride SCAN
Concen: 41.15 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:117 Resp: 814

Ion	Ratio	Lower	Upper
117	100		
119	290.5	75.5	135.5#
121	21.6	0.0	58.8
82	0.0	0.0	59.2

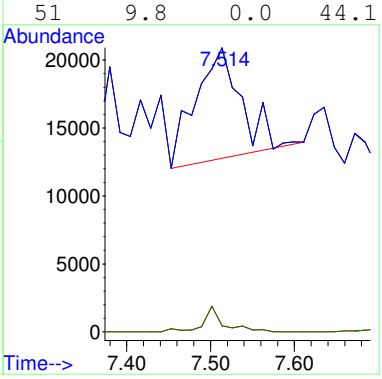


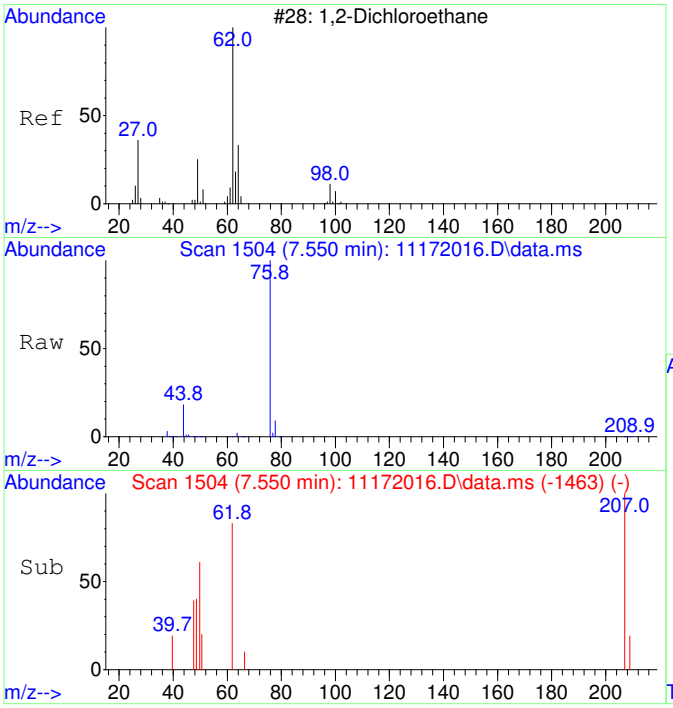


#33
Benzene SCAN
Concen: 600.93 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 78 Resp: 31376

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	9.8	0.0	47.9
51	9.8	0.0	44.1

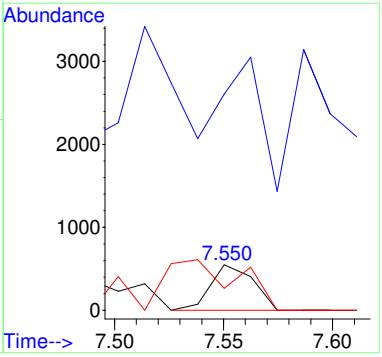


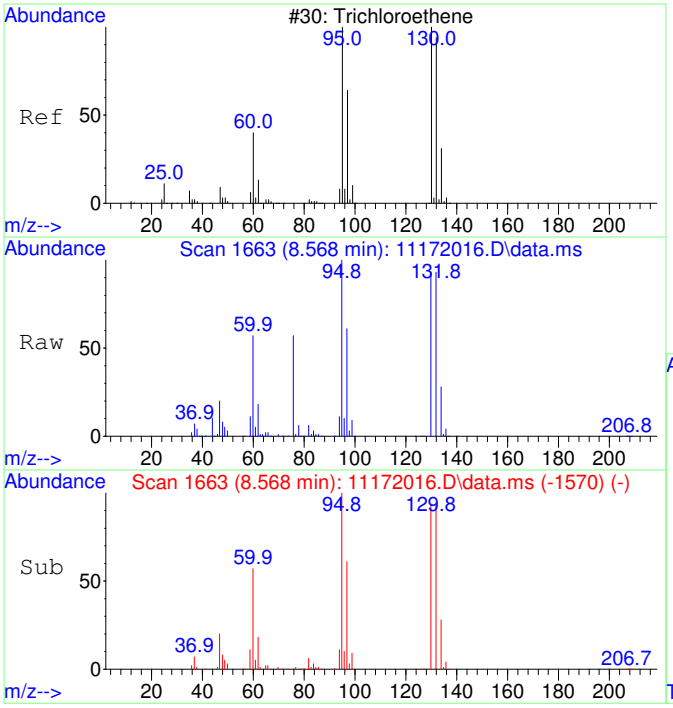


#34
1,2-Dichloroethane SCAN
Concen: 38.90 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 62 Resp: 750

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	229.9	3.9	63.9#

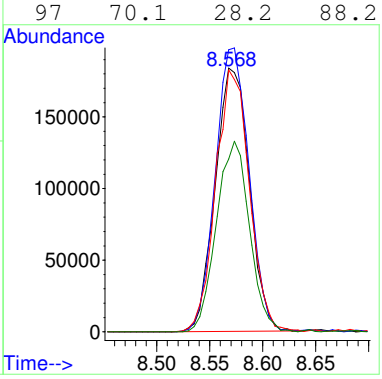


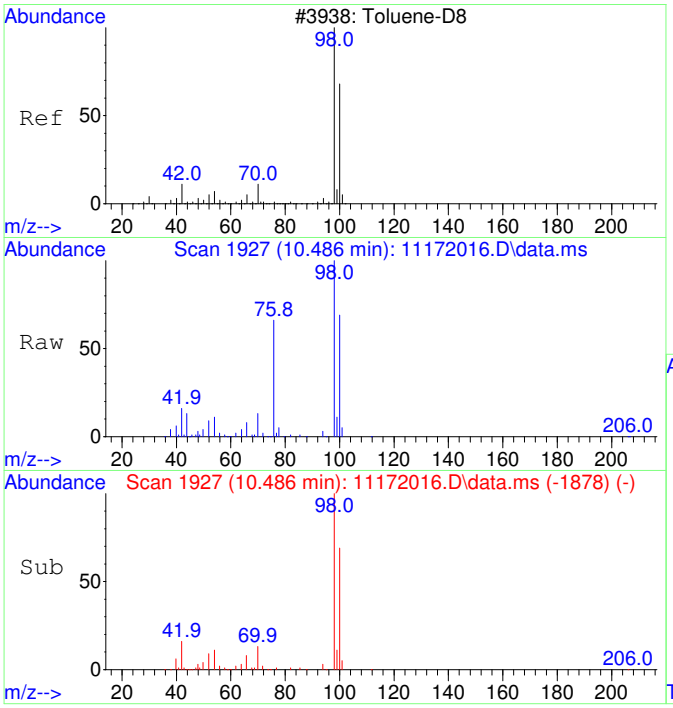


#35
Trichloroethene SCAN
Concen: 28684.96 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:130 Resp: 411579

Ion	Ratio	Lower	Upper
130	100		
95	107.2	60.5	120.5
132	97.9	59.6	119.6
97	70.1	28.2	88.2

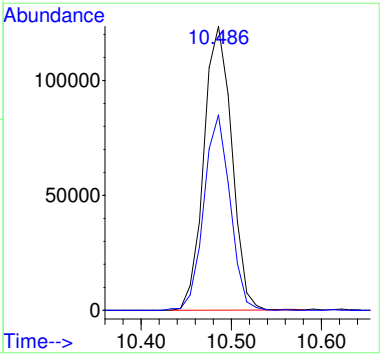


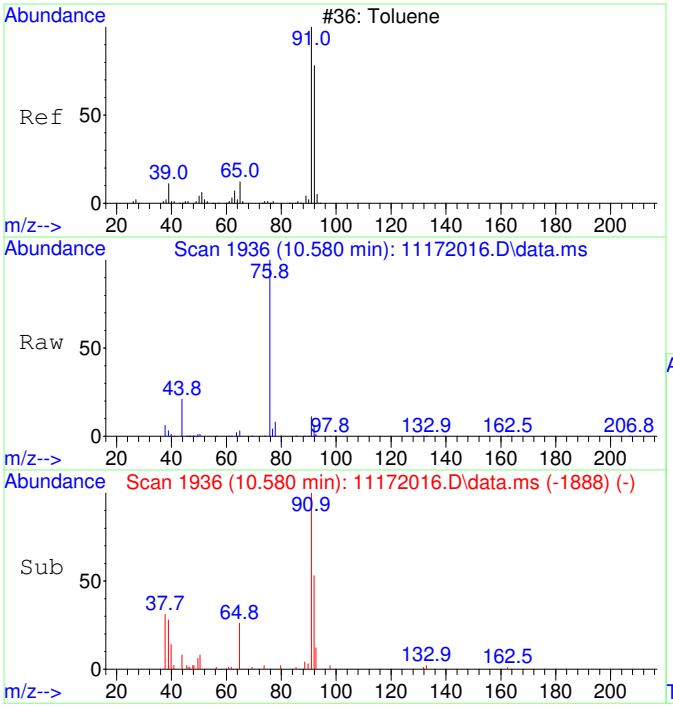


#36
Toluene-d8 SCAN
Concen: 4618.77 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 98 Resp: 265952

Ion	Ratio	Lower	Upper
98	100		
100	64.6	40.0	100.0

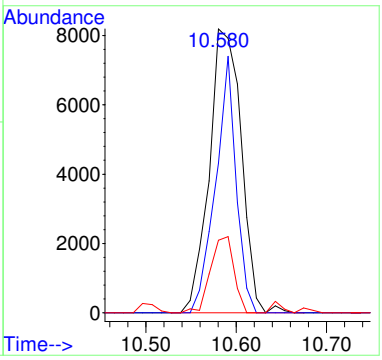


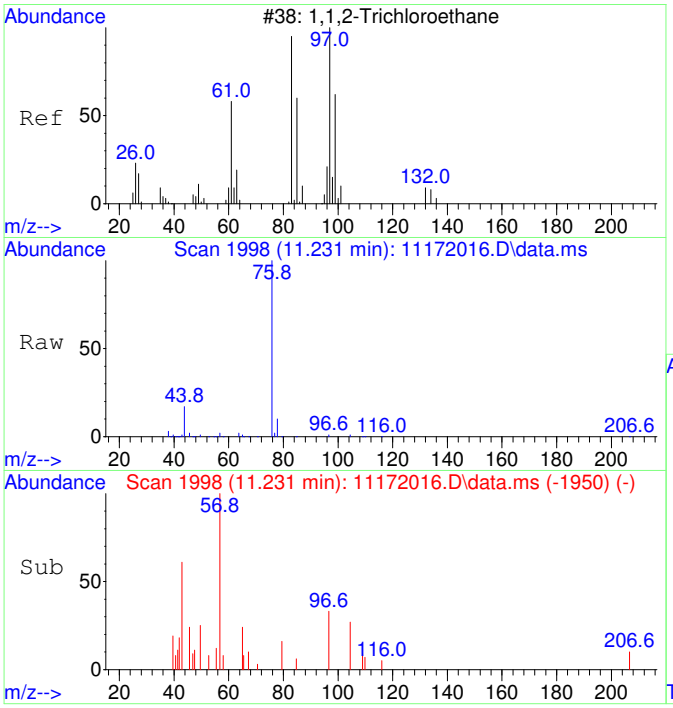


#37
Toluene SCAN
Concen: 274.62 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 20251

Ion	Ratio	Lower	Upper
91	100		
92	57.9	28.3	88.3
65	19.6	0.0	41.0

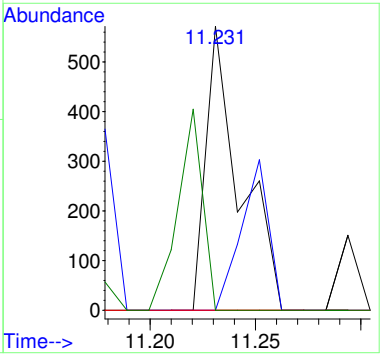


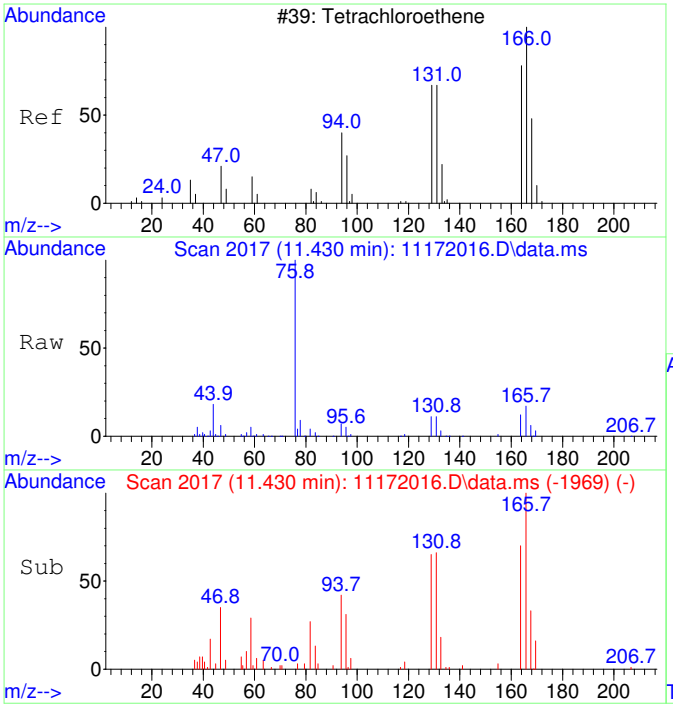


#38
1,1,2-Trichloroethane SCAN
Concen: 39.21 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 97 Resp: 649

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	51.2	36.7	96.7

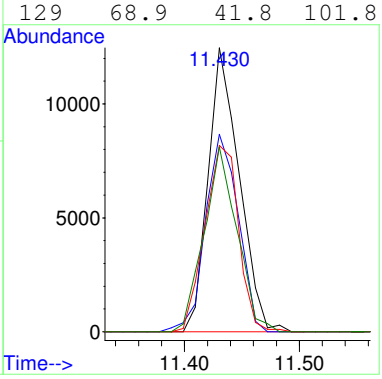


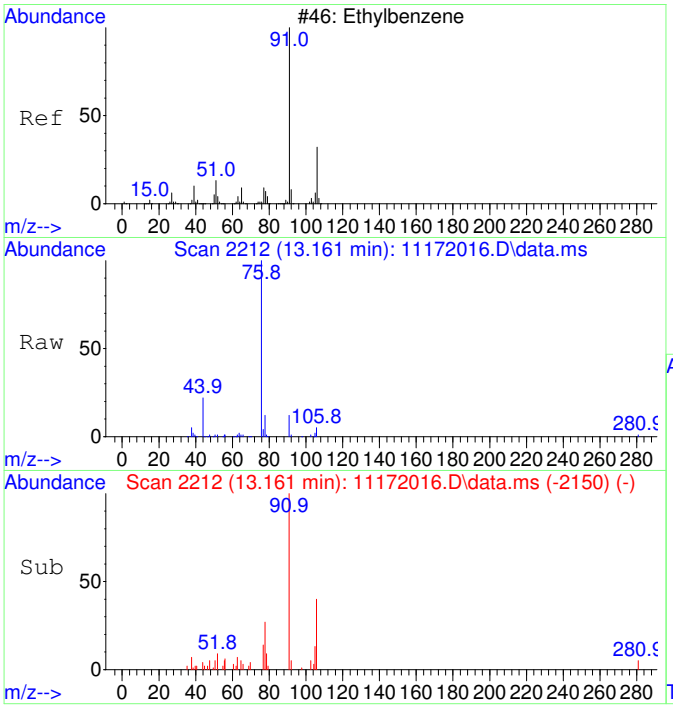


#39
Tetrachloroethene SCAN
Concen: 1328.12 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:166 Resp: 23529

Ion	Ratio	Lower	Upper
166	100		
164	73.0	50.9	110.9
131	71.3	38.7	98.7
129	68.9	41.8	101.8

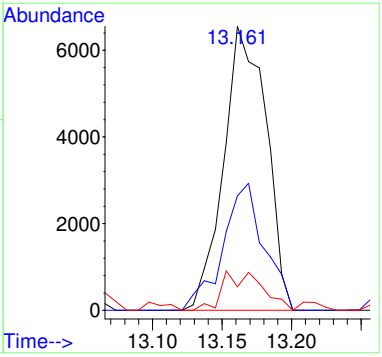


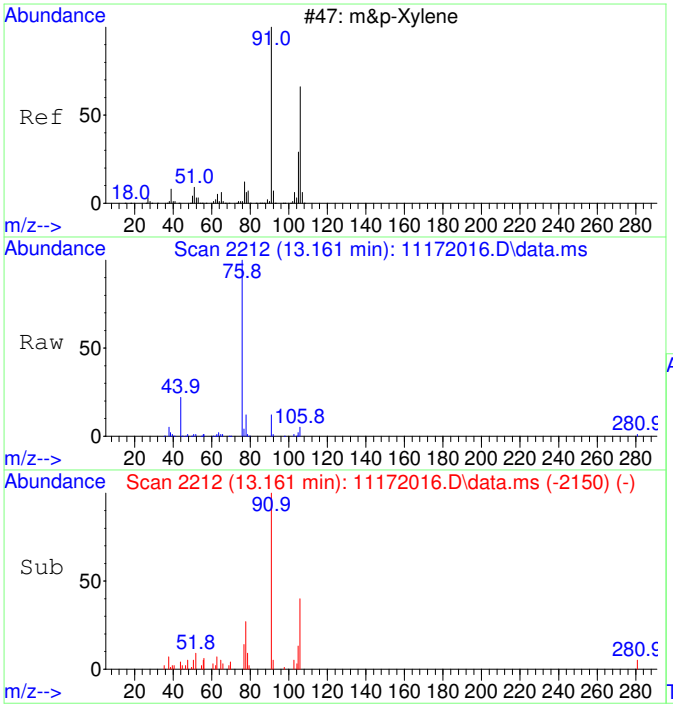


#42
Ethylbenzene SCAN
Concen: 103.85 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 13952

Ion	Ratio	Lower	Upper
91	100		
106	43.3	23.1	83.1
51	12.7	0.0	40.1

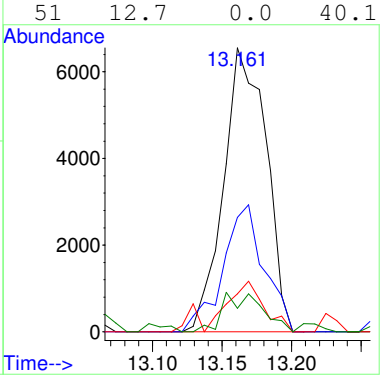


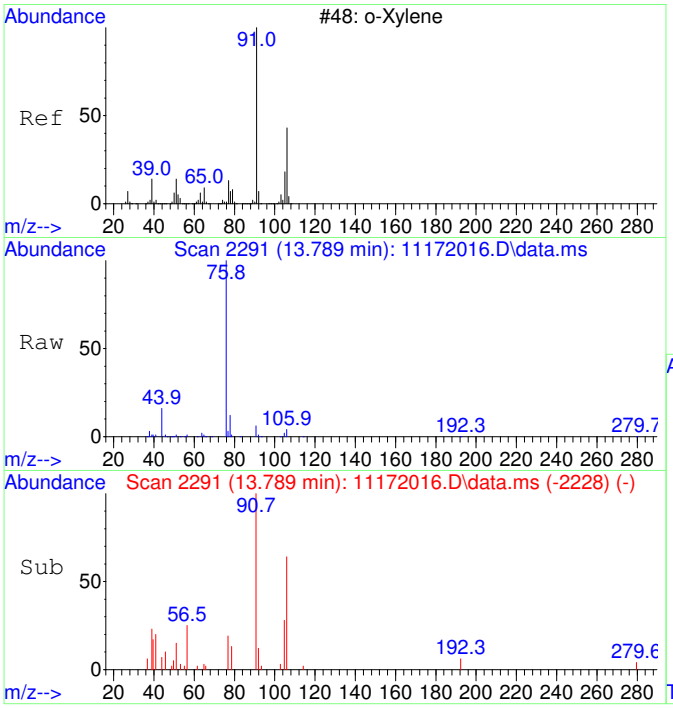


#43
m&p-Xylene SCAN
Concen: 103.85 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 13952

Ion	Ratio	Lower	Upper
91	100		
106	43.3	23.1	83.1
105	15.2	0.0	54.7
51	12.7	0.0	40.1

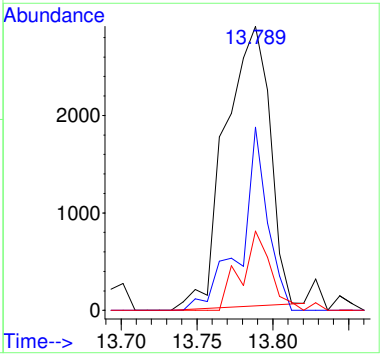


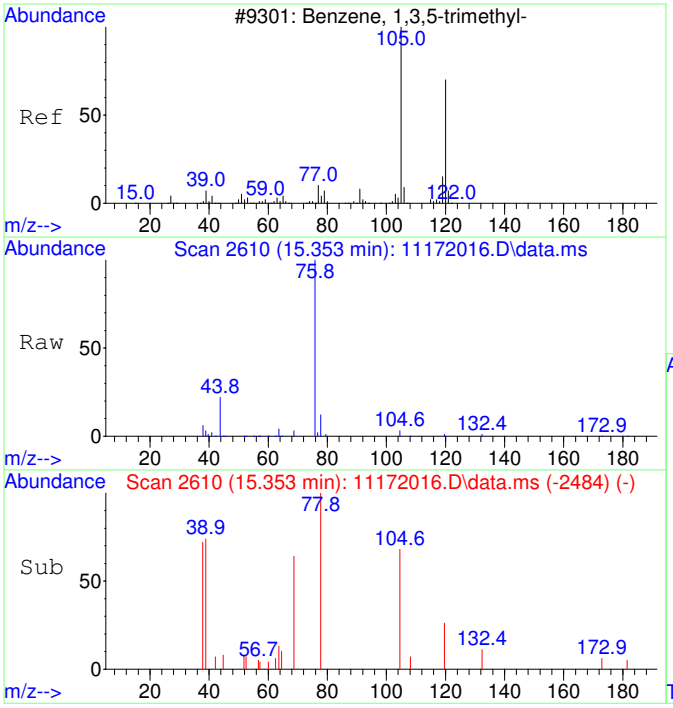


#44
o-Xylene SCAN
Concen: 81.88 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 5888

Ion	Ratio	Lower	Upper
91	100		
106	39.1	18.0	78.0
105	19.2	0.0	56.6

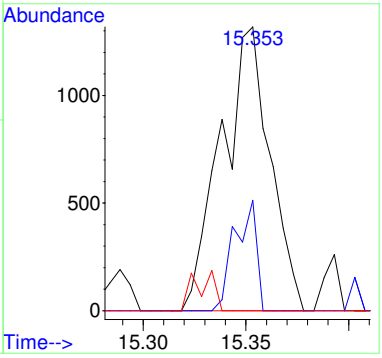


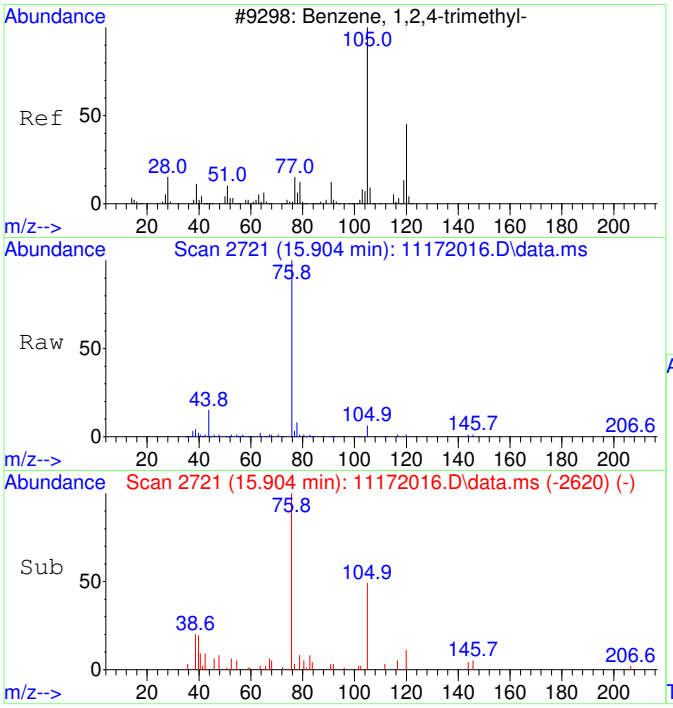


#46
1,3,5-Trimethylbenzene SCAN
Concen: 28.67 ug/L
RT: 15.353 min Scan# 2610
Delta R.T. 0.010 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:105 Resp: 2173

Ion	Ratio	Lower	Upper
105	100		
120	17.4	18.3	78.3#
119	5.8	0.0	43.1

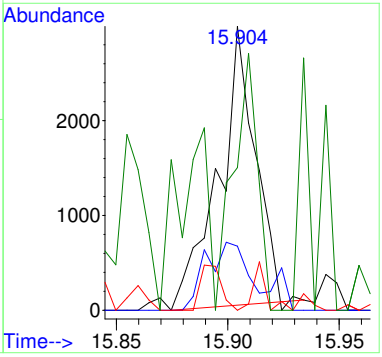




#47
1,2,4-Trimethylbenzene SCAN
Concen: 43.55 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:105 Resp: 3377

Ion	Ratio	Lower	Upper
105	100		
120	33.4	16.9	76.9
119	5.9	0.0	41.9
77	60.8	0.0	42.3#



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172016.D
Acq On : 17 Nov 2020 13:49
InstName : AG5975C
Operator : TD
Sample : 2011017-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

M.I. Performed By:
TD at 8:54 am, Nov 23, 2020

M.I. Approved By:
ZR at 3:38 pm, Nov 23, 2020

Quant Time: Nov 18 06:15:48 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

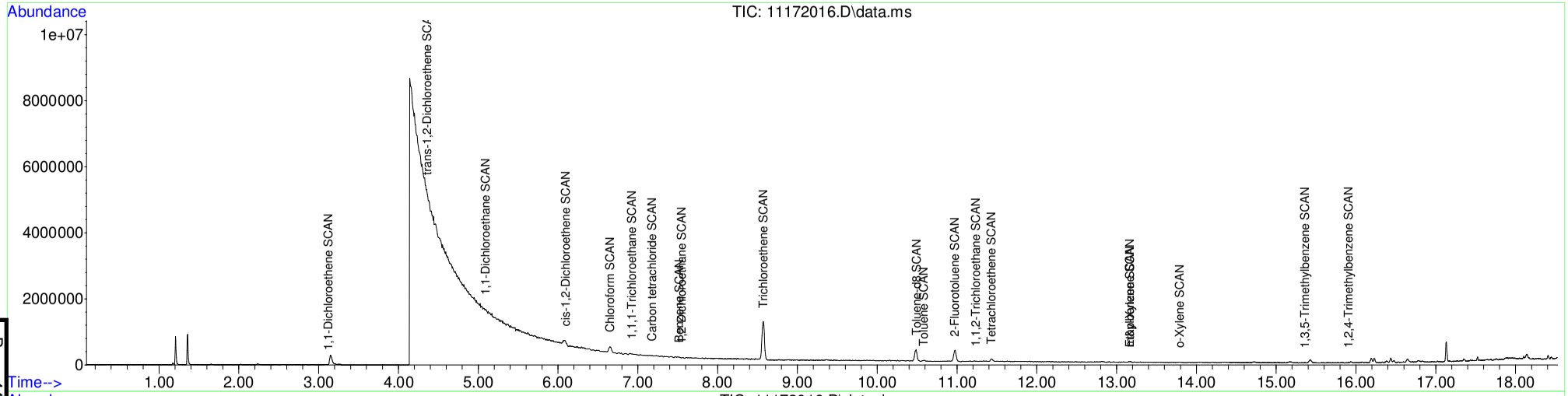
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	603989	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	517751	4378.91 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.58%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.089	61	9265	384.15 ug/L	82
3] trans-1,2-Dichloroethene	4.356	61	12677	454.94 ug/L	94
4] 1,1-Dichloroethane	5.072	63	10924	314.93 ug/L	94
5] cis-1,2-Dichloroethene	6.081	61	222237	6069.61 ug/L	99
6] Chloroform	6.651	83	310261	8278.80 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	8870	217.94 ug/L	100
8] Carbon tetrachloride	7.174	117	4083	106.59 ug/L	100
9] Benzene	7.503	78	19775	192.70 ug/L	82
10] 1,2-Dichloroethane	7.539	62	2214	60.44 ug/L	55
11] Trichloroethene	8.569	130	881328	28523.91 ug/L **oc**	94
13] Toluene	10.582	91	35213	233.60 ug/L	98
15] Tetrachloroethene	11.432	166	50020	1146.61 ug/L	100
18] Ethylbenzene	12.972	91	9655	52.62 ug/L	95
19] m&p-Xylene	13.162	91	21975	153.24 ug/L	94
20] o-Xylene	13.782	91	12692	82.84 ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	8011	47.29 ug/L	89
25) 2-Fluorotoluene SCAN	10.969	109	279568	4748.28 ug/L	97
26) 1,1-Dichloroethene SCAN	3.118	61	1274	101.89 ug/L	72
27) trans-1,2-Dichloroethe...	4.354	61	6719	434.25 ug/L #	62
28) 1,1-Dichloroethane SCAN	5.091	63	3765	210.26 ug/L	69
29) cis-1,2-Dichloroethene...	6.086	61	128661	6706.22 ug/L #	83
30) Chloroform SCAN	6.650	83	170883	8211.92 ug/L	91
31) 1,1,1-Trichloroethane ...	6.918	97	5374	283.39 ug/L	84
32) Carbon tetrachloride SCAN	7.173	117	814	41.15 ug/L #	1
33) Benzene SCAN	7.514	78	31376	600.93 ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	750	38.90 ug/L #	1
35) Trichloroethene SCAN	8.568	130	411579	28684.96 ug/L	86
36) Toluene-d8 SCAN	10.486	98	265952	4618.77 ug/L	93
37) Toluene SCAN	10.580	91	20251	274.62 ug/L	96
38) 1,1,2-Trichloroethane ...	11.231	97	649	39.21 ug/L #	33
39) Tetrachloroethene SCAN	11.430	166	23529	1328.12 ug/L	95
42) Ethylbenzene SCAN	13.161	91	13952	103.85 ug/L	87
43) m&p-Xylene SCAN	13.161	91	13952	103.85 ug/L	85
44) o-Xylene SCAN	13.789	91	5888	81.88 ug/L	86
46) 1,3,5-Trimethylbenzene...	15.353	105	2173	28.67 ug/L #	60
47) 1,2,4-Trimethylbenzene...	15.904	105	3377	43.55 ug/L #	63

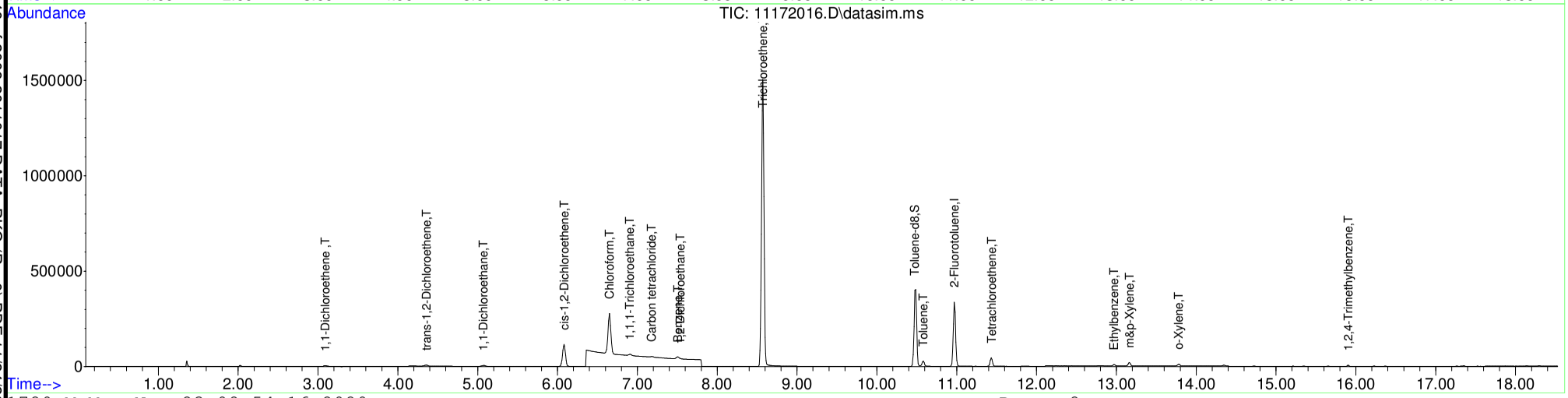
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172016.D
Acq On : 17 Nov 2020 13:49
InstName : AG5975C
Operator : TD
Sample : 2011017-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 18 06:15:48 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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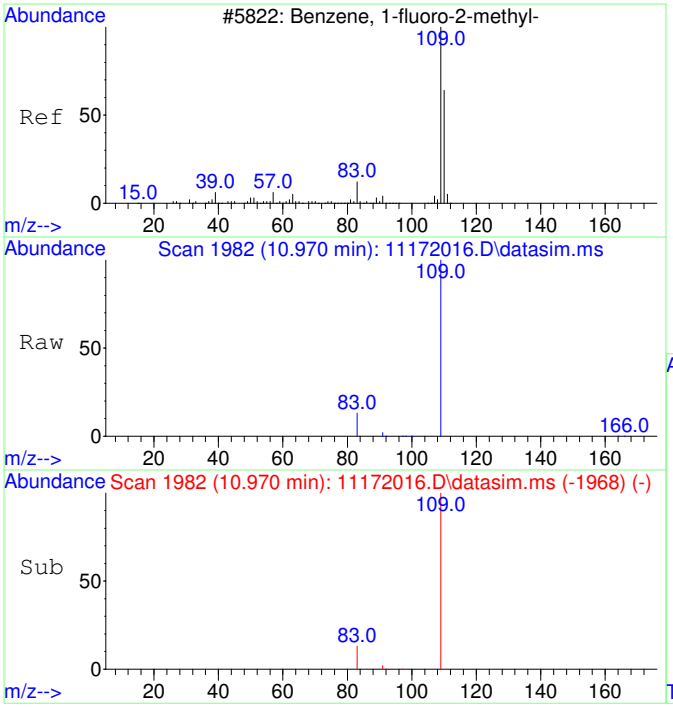
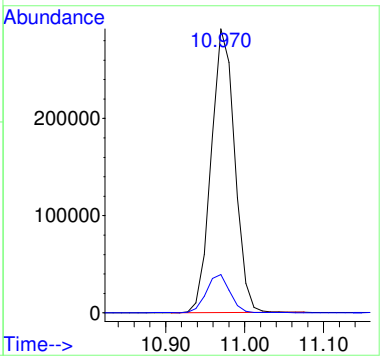
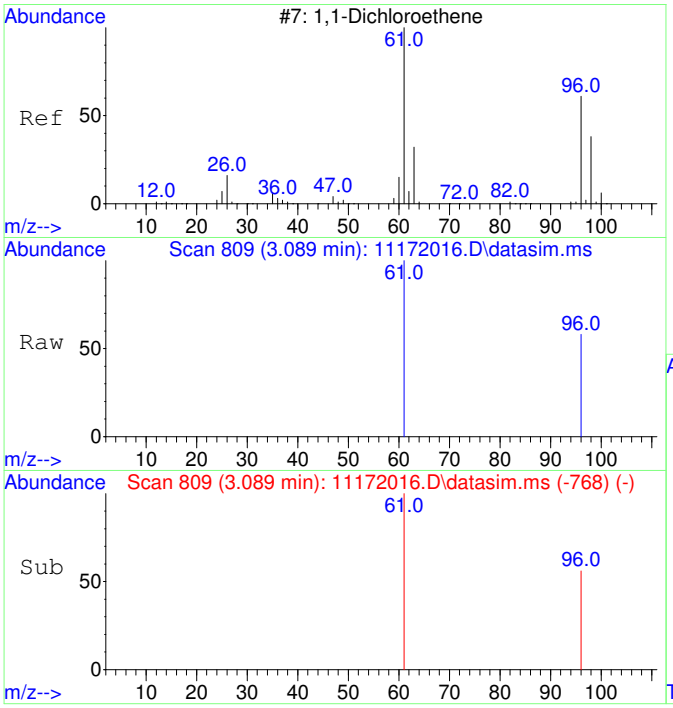


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:109 Resp: 603989

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

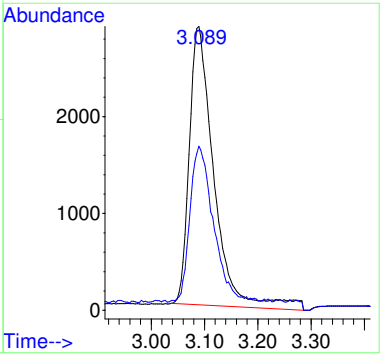


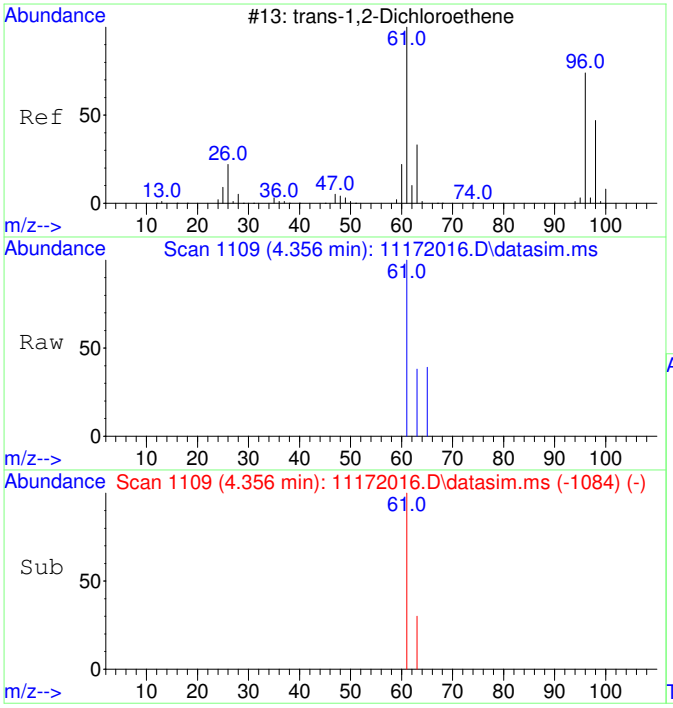


#2
1,1-Dichloroethene
Concen: 384.15 ug/L
RT: 3.089 min Scan# 809
Delta R.T. 0.003 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 61 Resp: 9265

Ion	Ratio	Lower	Upper
61	100		
96	52.6	37.2	97.2

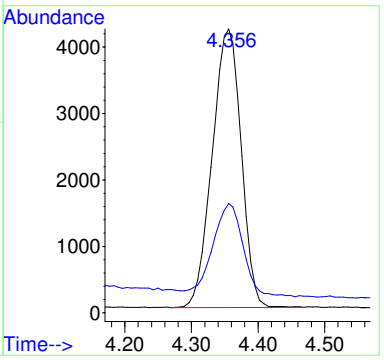


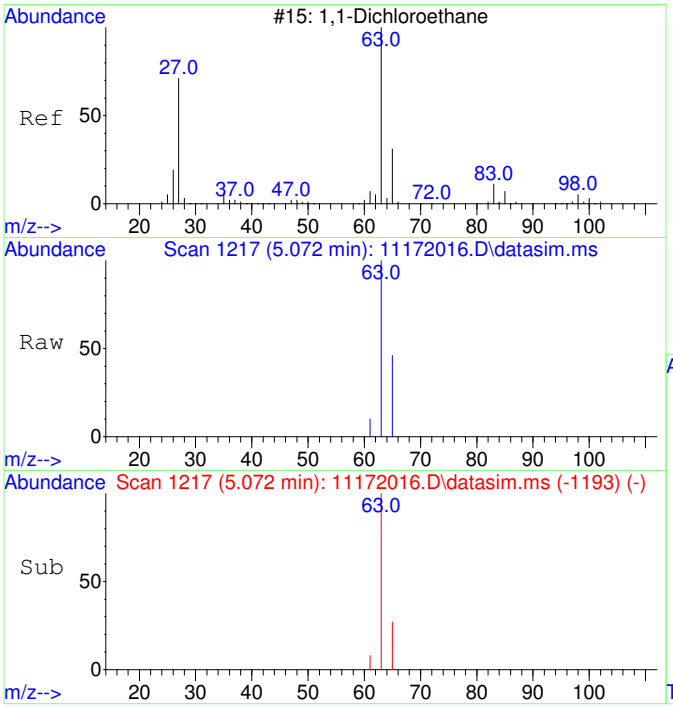


#3
trans-1,2-Dichloroethene
Concen: 454.94 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 61 Resp: 12677

Ion	Ratio	Lower	Upper
61	100		
63	35.6	2.4	62.4

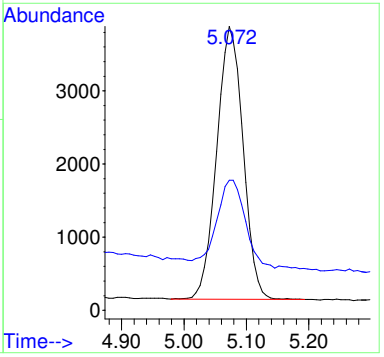


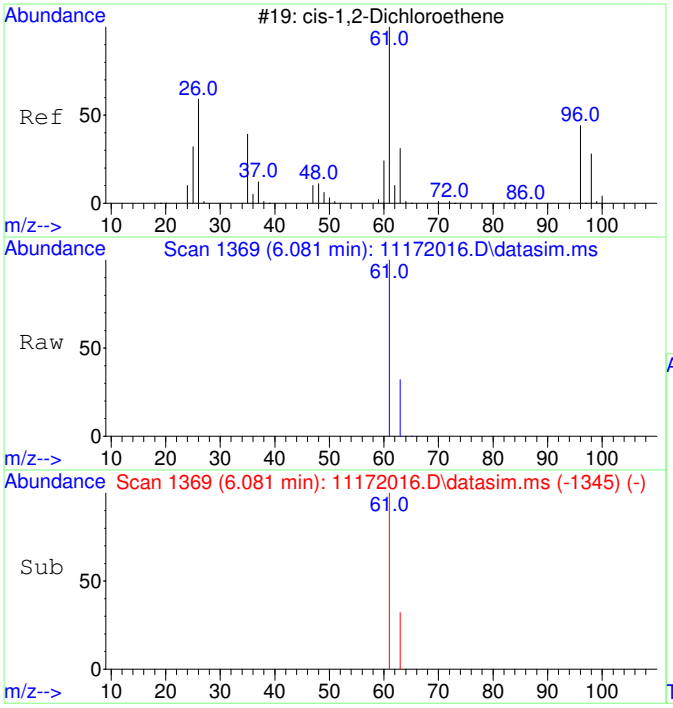


#4
1,1-Dichloroethane
Concen: 314.93 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.006 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 63 Resp: 10924

Ion	Ratio	Lower	Upper
63	100		
65	35.3	1.8	61.8

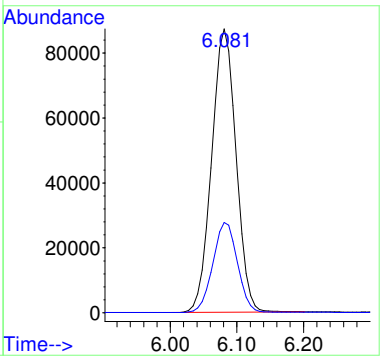


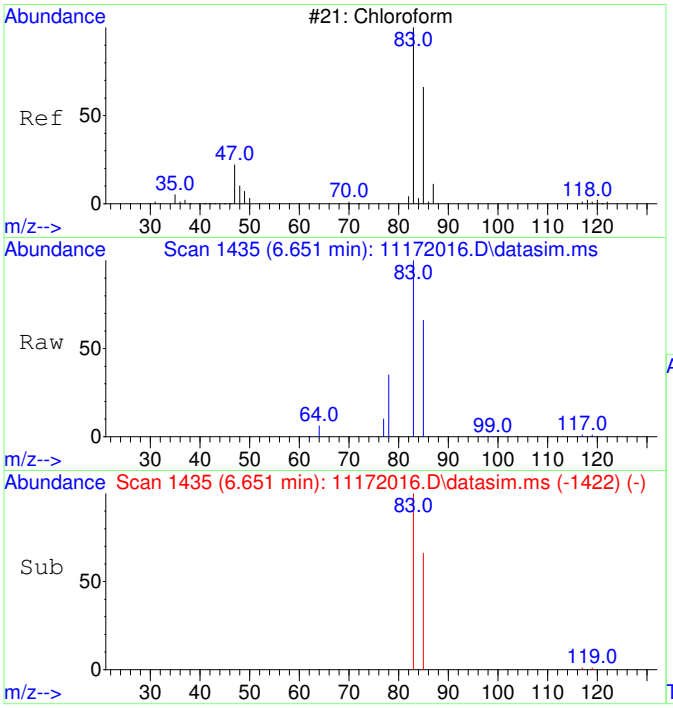


#5
cis-1,2-Dichloroethene
Concen: 6069.61 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.006 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 61 Resp: 222237

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

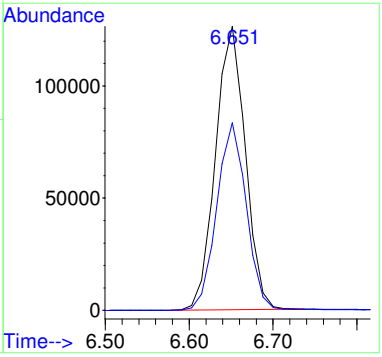


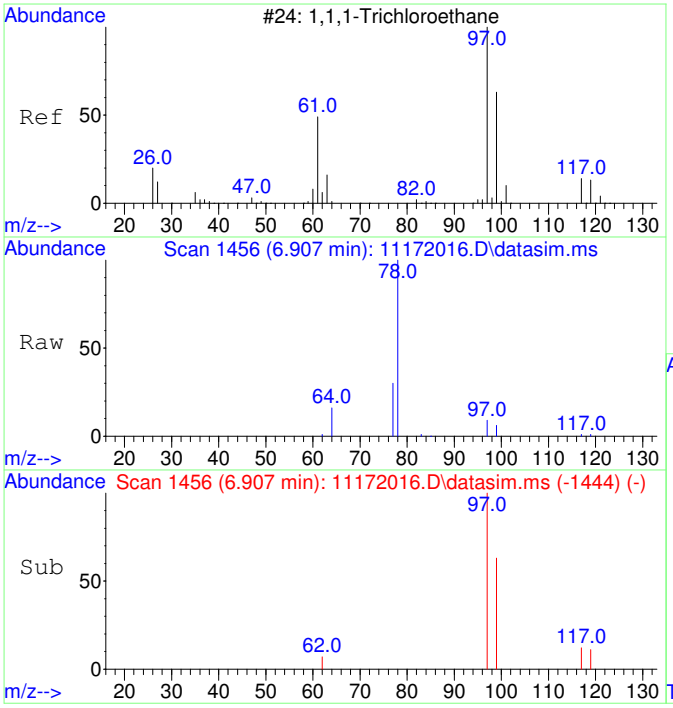


#6
Chloroform
Concen: 8278.80 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 83 Resp: 310261

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.1	95.1

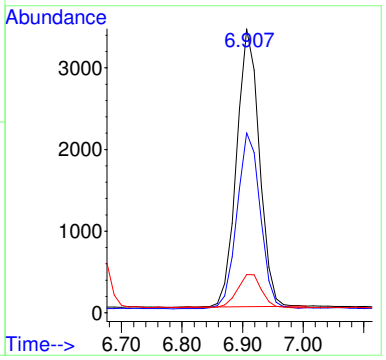


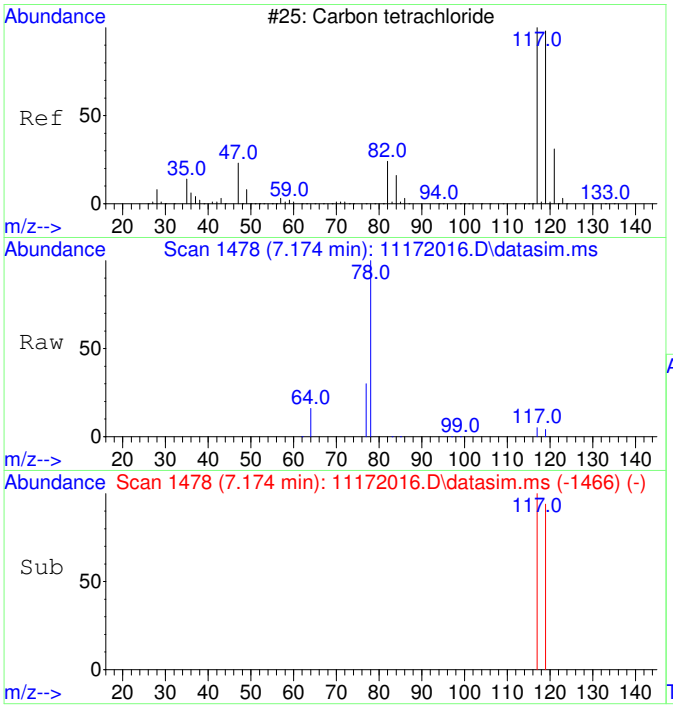


#7
1,1,1-Trichloroethane
Concen: 217.94 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 97 Resp: 8870

Ion	Ratio	Lower	Upper
97	100		
99	64.7	34.6	94.6
117	12.7	0.0	43.2

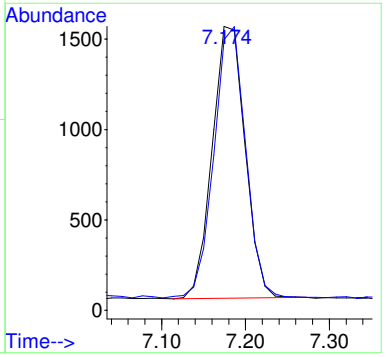


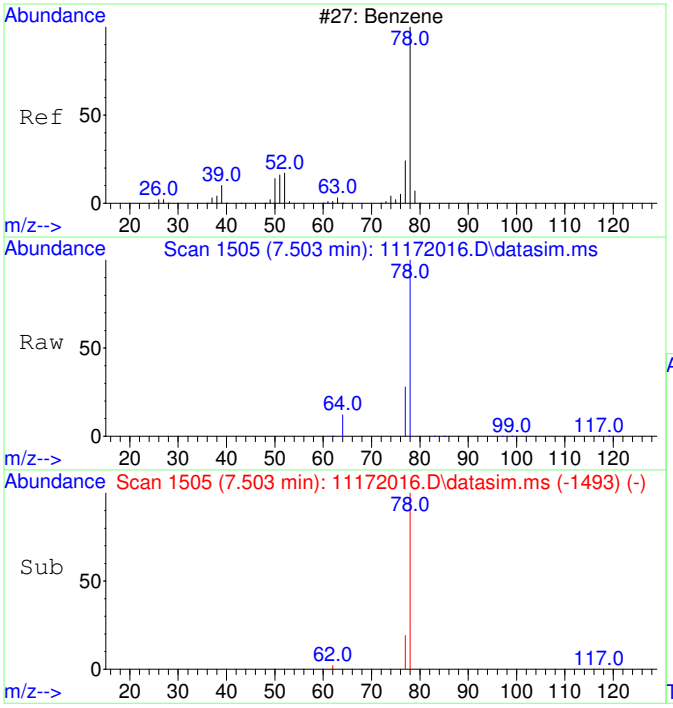


#8
Carbon tetrachloride
Concen: 106.59 ug/L
RT: 7.174 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:117 Resp: 4083

Ion	Ratio	Lower	Upper
117	100		
119	96.1	66.4	126.4

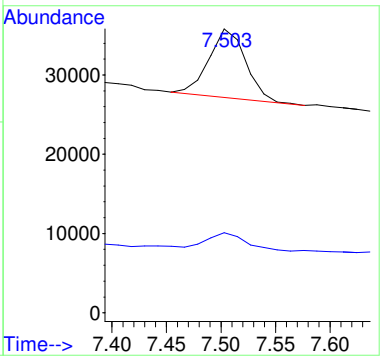


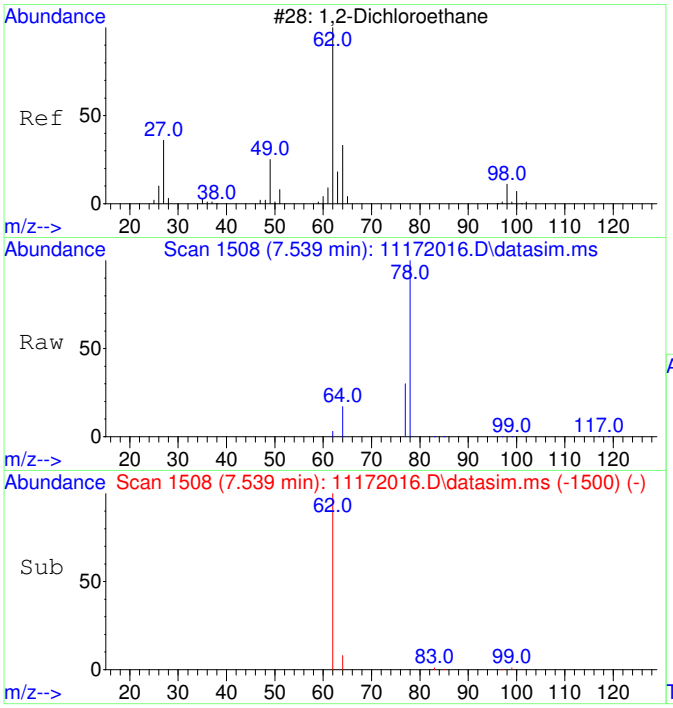


#9
Benzene
Concen: 192.70 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 78 Resp: 19775

Ion	Ratio	Lower	Upper
78	100		
77	32.1	0.0	53.2

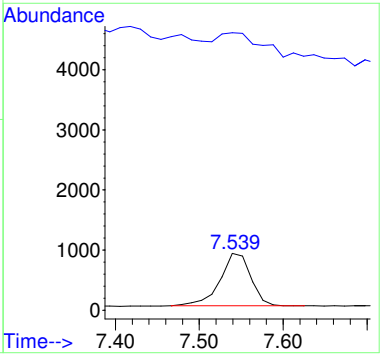


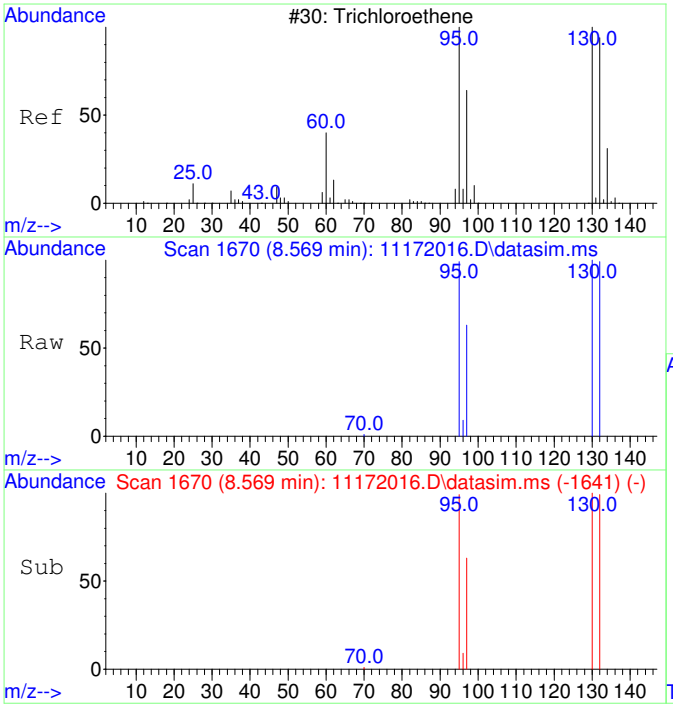


#10
1,2-Dichloroethane
Concen: 60.44 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 62 Resp: 2214

Ion	Ratio	Lower	Upper
62	100		
64	57.5	2.3	62.3

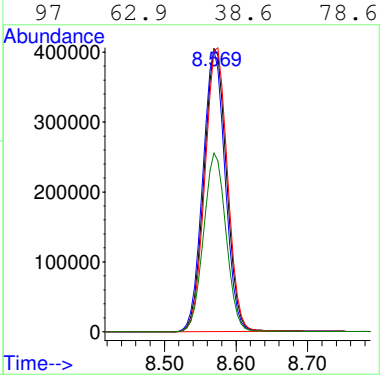


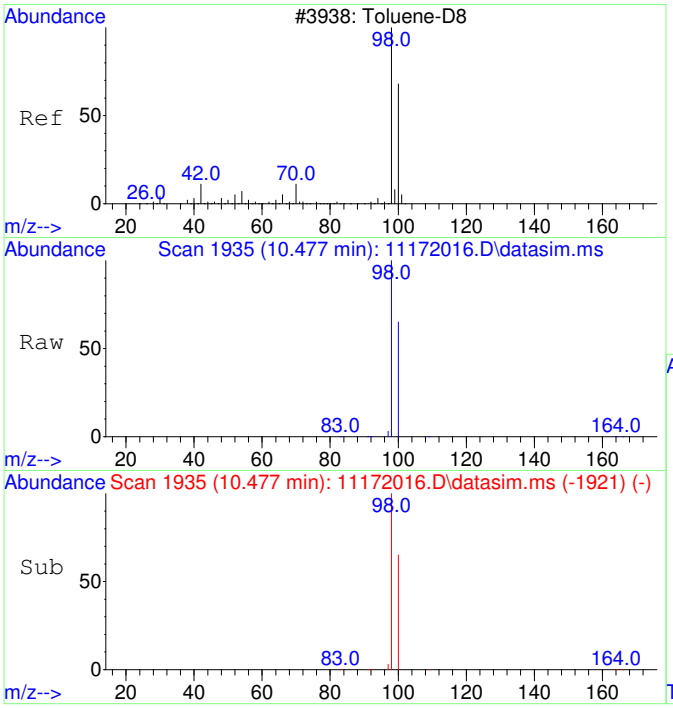


#11
Trichloroethene
Concen: 28523.91 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:130 Resp: 881328

Ion	Ratio	Lower	Upper
130	100		
95	98.6	60.7	120.7
132	100.4	76.0	116.0
97	62.9	38.6	78.6

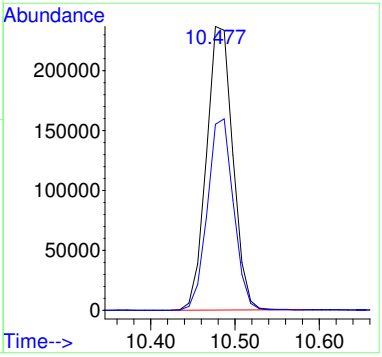


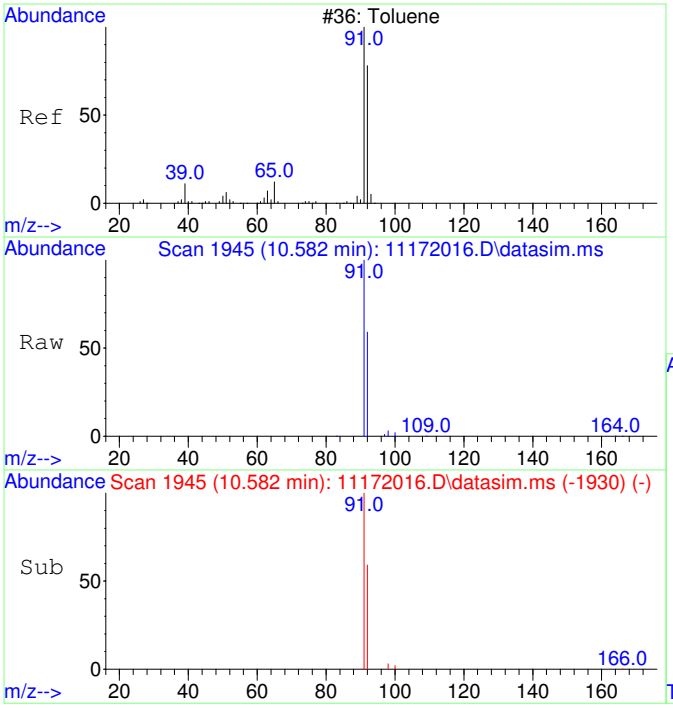


#12
Toluene-d8
Concen: 4378.91 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 98 Resp: 517751

Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1

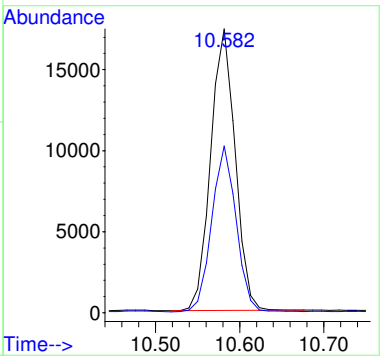


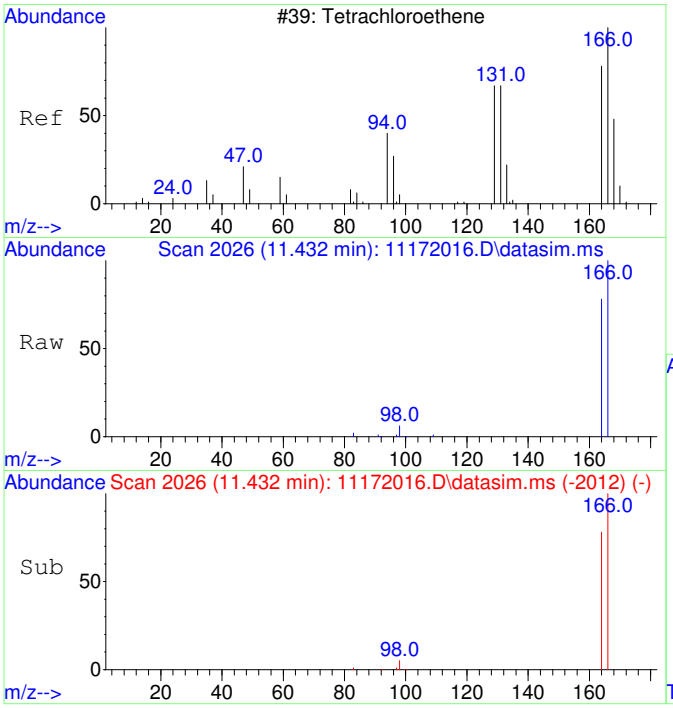


#13
Toluene
Concen: 233.60 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 35213

Ion	Ratio	Lower	Upper
91	100		
92	58.2	29.9	89.9

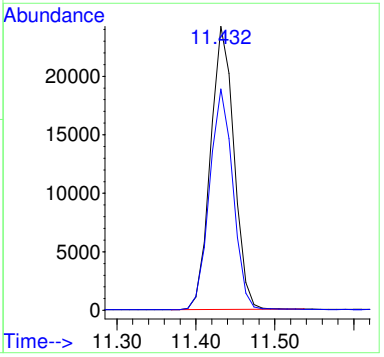


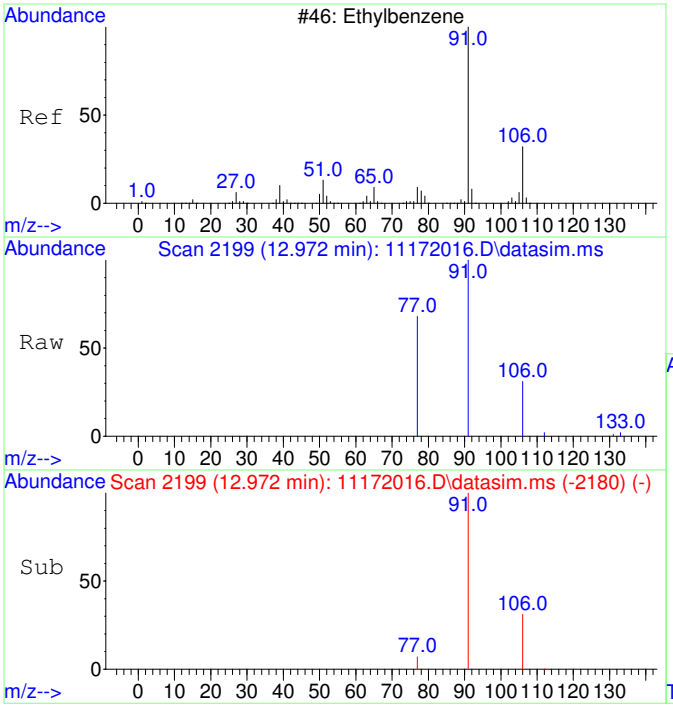


#15
Tetrachloroethene
Concen: 1146.61 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:166 Resp: 50020

Ion	Ratio	Lower	Upper
166	100		
164	77.4	47.8	107.8

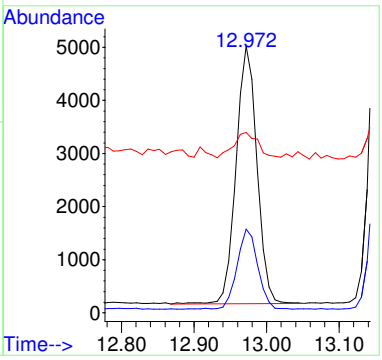


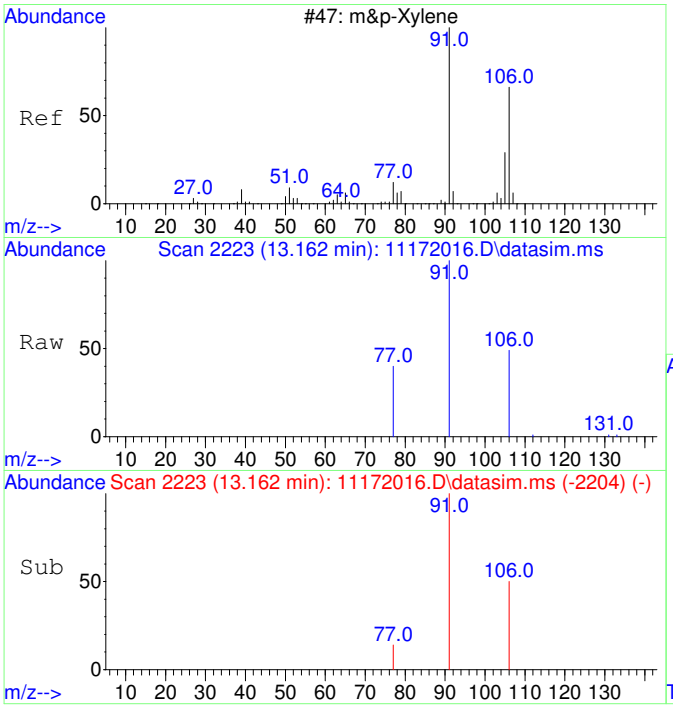


#18
Ethylbenzene
Concen: 52.62 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 9655

Ion	Ratio	Lower	Upper
91	100		
106	31.0	3.0	63.0
77	11.2	0.0	38.2

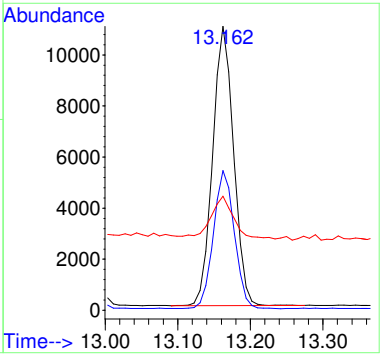


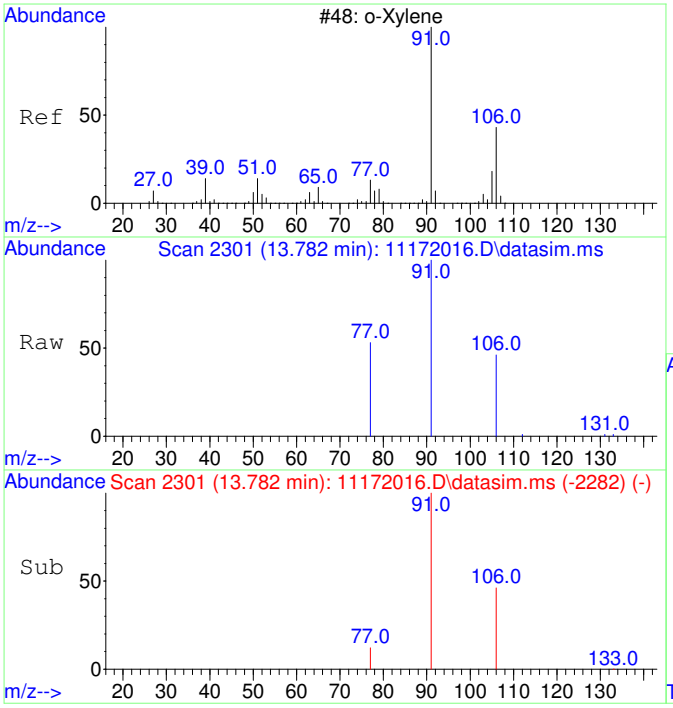


#19
m&p-Xylene
Concen: 153.24 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 21975

Ion	Ratio	Lower	Upper
91	100		
106	49.3	22.2	82.2
77	16.9	0.0	42.4

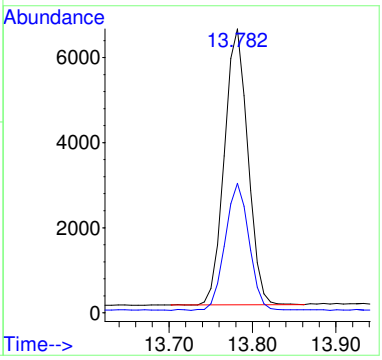


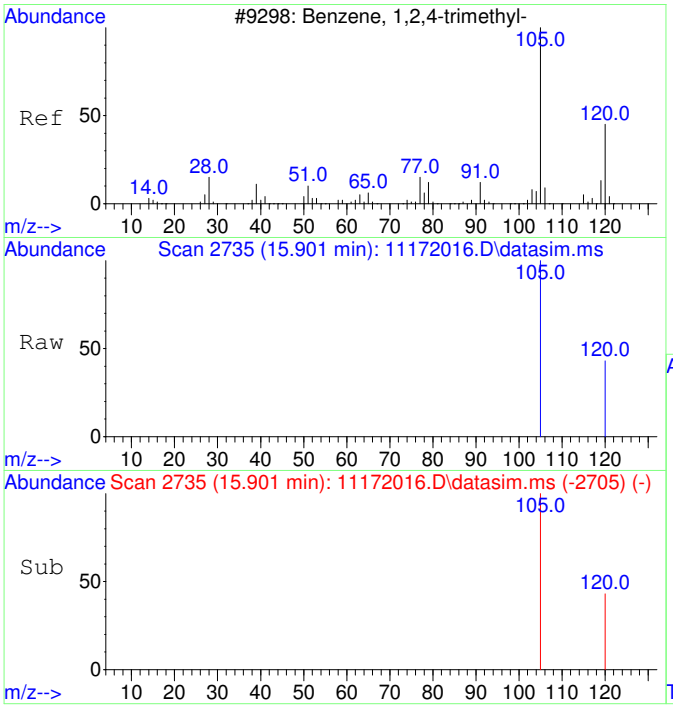


#20
o-Xylene
Concen: 82.84 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 12692

Ion	Ratio	Lower	Upper
91	100		
106	46.5	19.2	79.2

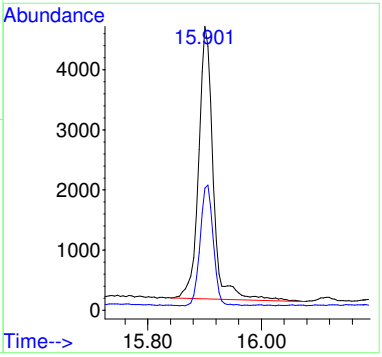


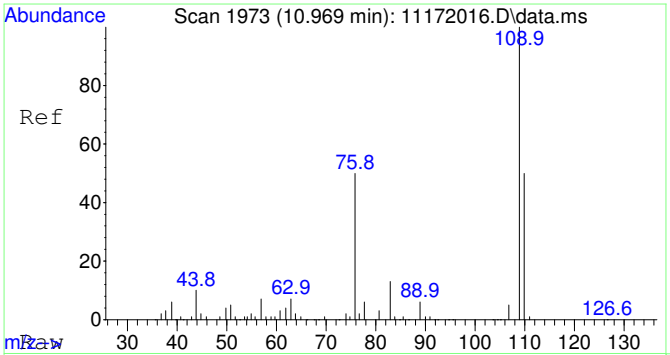


#23
1,2,4-Trimethylbenzene
Concen: 47.29 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:105 Resp: 8011

Ion	Ratio	Lower	Upper
105	100		
120	40.0	17.2	77.2

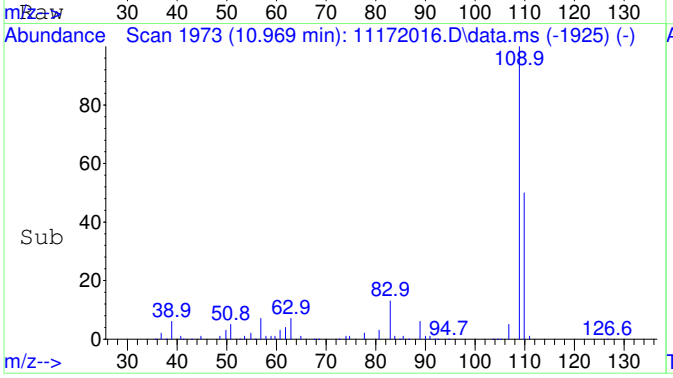


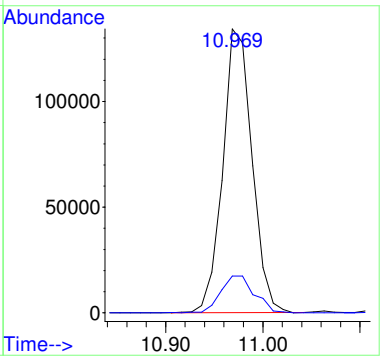


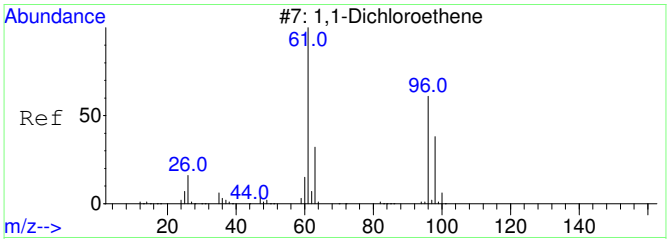
#25
2-Fluorotoluene SCAN
Concen: 4748.28 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:109 Resp: 279568

Ion	Ratio	Lower	Upper
109	100		
83	15.1	0.0	43.8



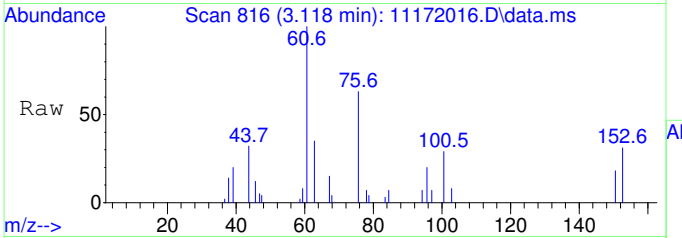


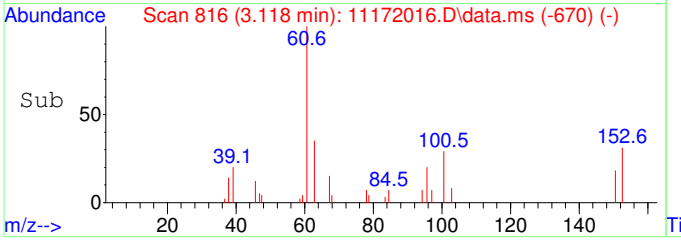


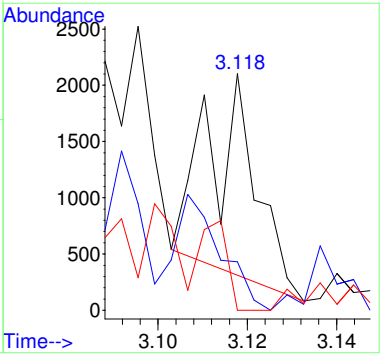
#26
1,1-Dichloroethene SCAN
Concen: 101.89 ug/L
RT: 3.118 min Scan# 816
Delta R.T. 0.041 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

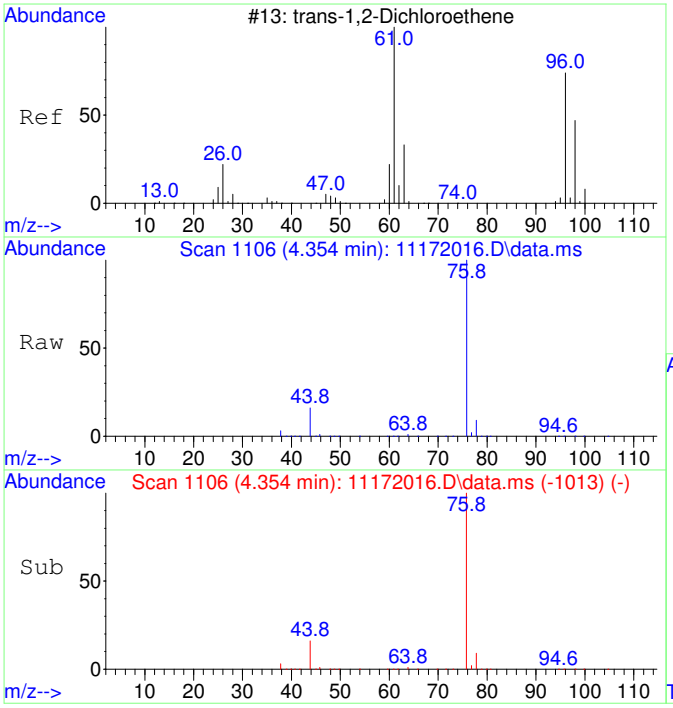
Tgt Ion: 61 Resp: 1274

Ion	Ratio	Lower	Upper
61	100		
96	42.9	33.1	93.1
98	21.9	11.2	71.2





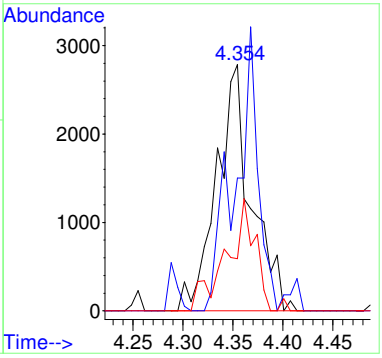


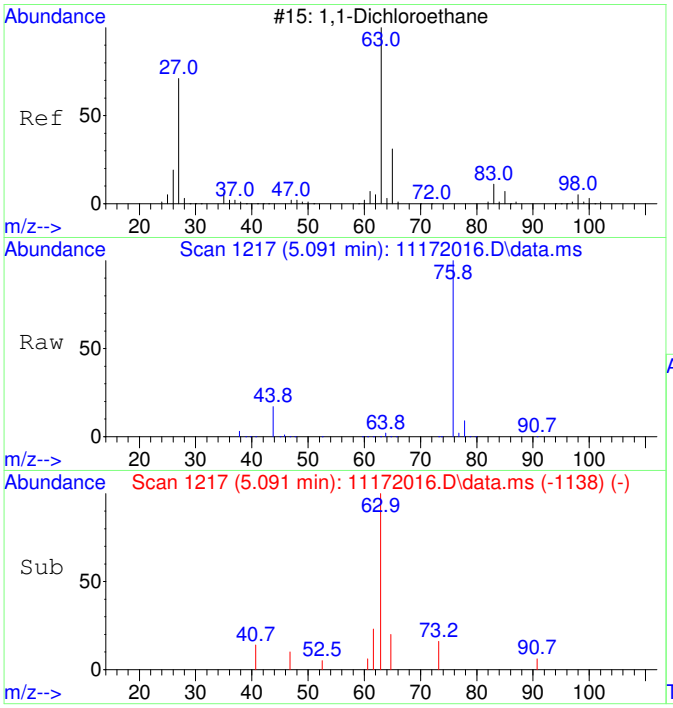


#27
trans-1,2-Dichloroethene SCAN
Concen: 434.25 ug/L
RT: 4.354 min Scan# 1106
Delta R.T. 0.006 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 61 Resp: 6719

Ion	Ratio	Lower	Upper
61	100		
96	34.7	49.0	109.0#
98	37.1	20.5	80.5

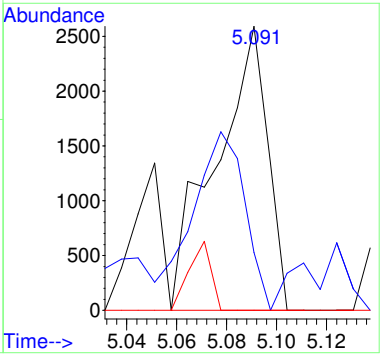


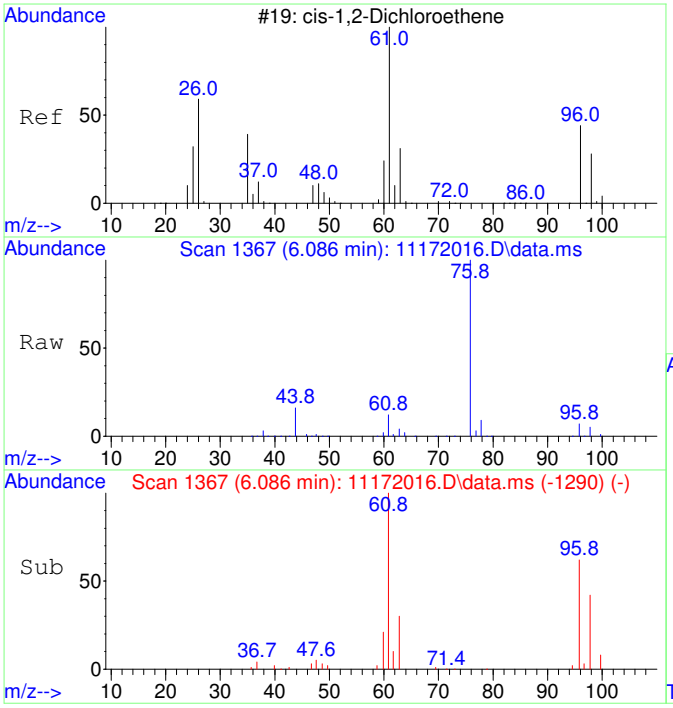


#28
1,1-Dichloroethane SCAN
Concen: 210.26 ug/L
RT: 5.091 min Scan# 1217
Delta R.T. 0.026 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 63 Resp: 3765

Ion	Ratio	Lower	Upper
63	100		
65	53.3	1.3	61.3
83	10.3	0.0	45.9

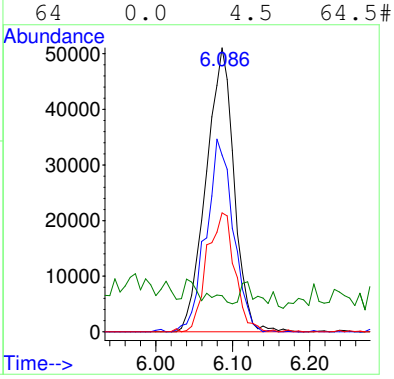


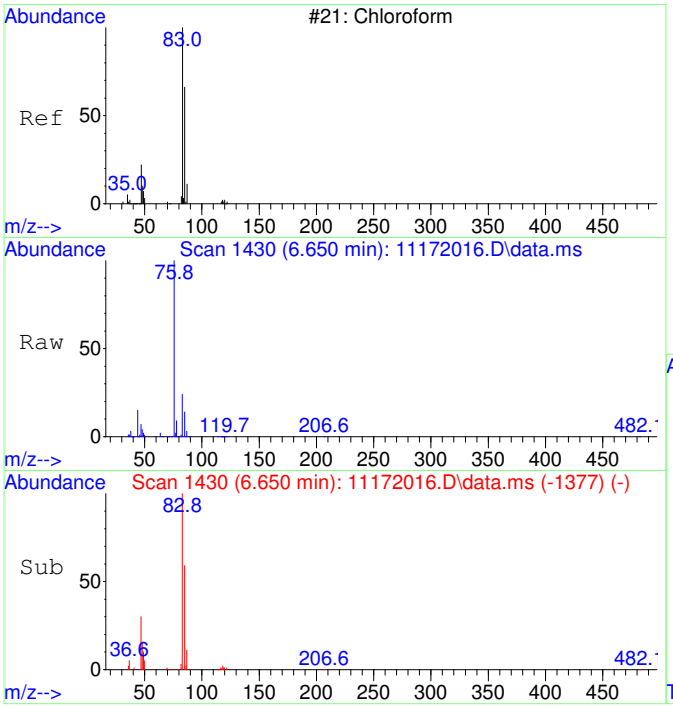


#29
cis-1,2-Dichloroethene SCAN
Concen: 6706.22 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 61 Resp: 128661

Ion	Ratio	Lower	Upper
61	100		
96	66.3	39.9	99.9
98	41.7	13.5	73.5
64	0.0	4.5	64.5#

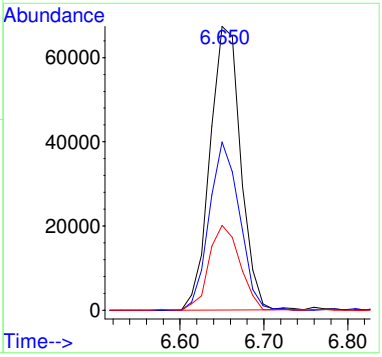


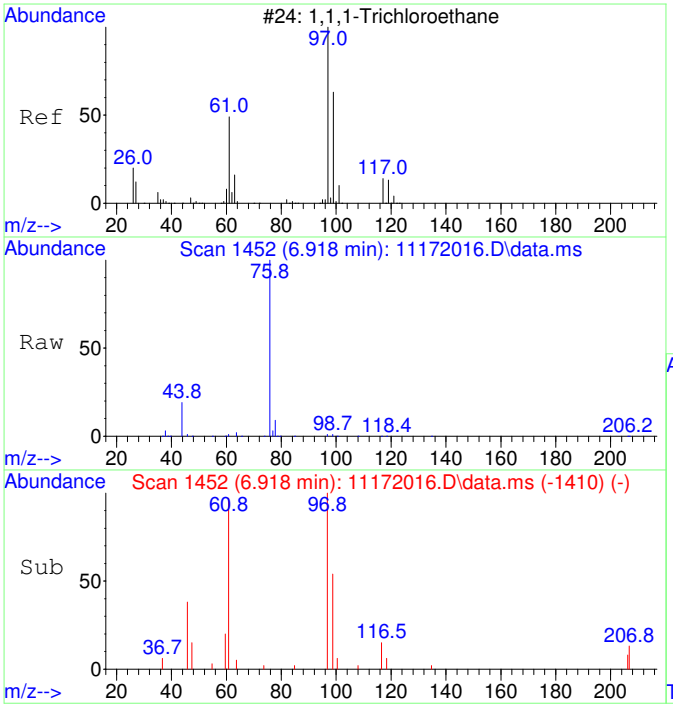


#30
Chloroform SCAN
Concen: 8211.92 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 83 Resp: 170883

Ion	Ratio	Lower	Upper
83	100		
85	58.8	34.6	94.6
47	30.5	0.0	53.4

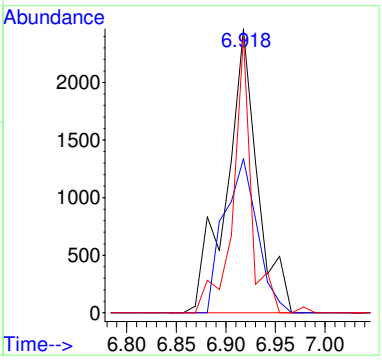


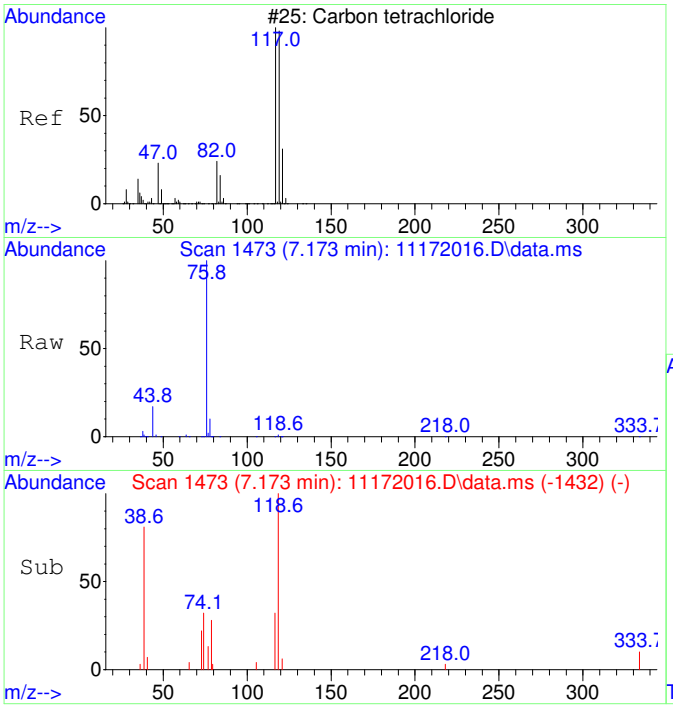


#31
1,1,1-Trichloroethane SCAN
Concen: 283.39 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 97 Resp: 5374

Ion	Ratio	Lower	Upper
97	100		
99	58.1	43.6	103.6
61	56.4	18.0	78.0

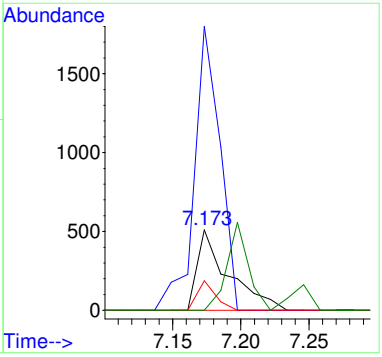


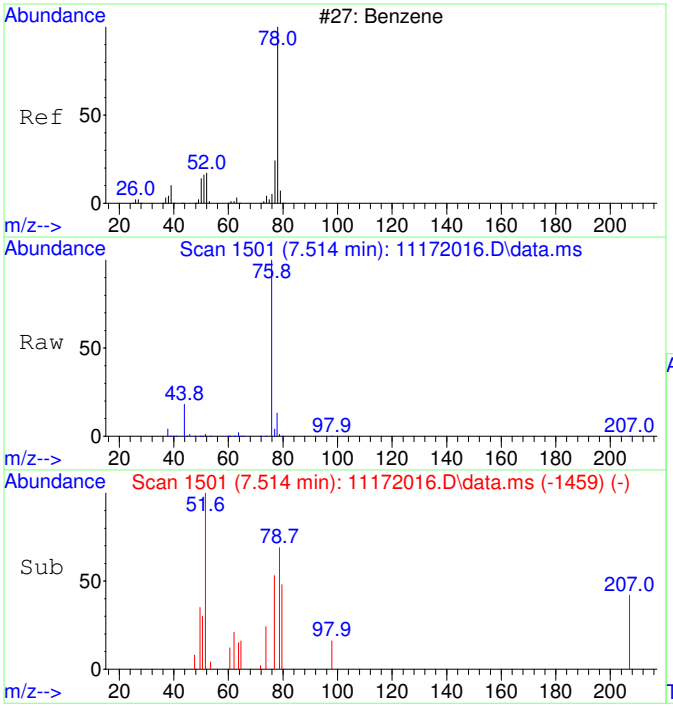


#32
Carbon tetrachloride SCAN
Concen: 41.15 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:117 Resp: 814

Ion	Ratio	Lower	Upper
117	100		
119	290.5	75.5	135.5#
121	21.6	0.0	58.8
82	0.0	0.0	59.2

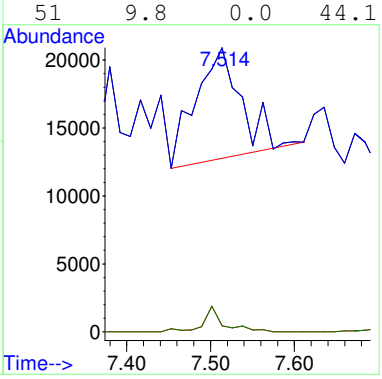


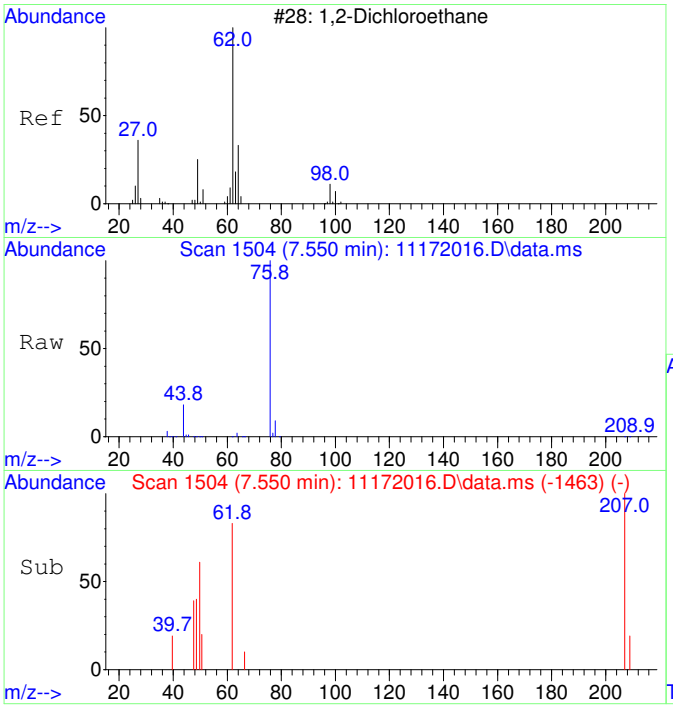


#33
Benzene SCAN
Concen: 600.93 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 78 Resp: 31376

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	9.8	0.0	47.9
51	9.8	0.0	44.1

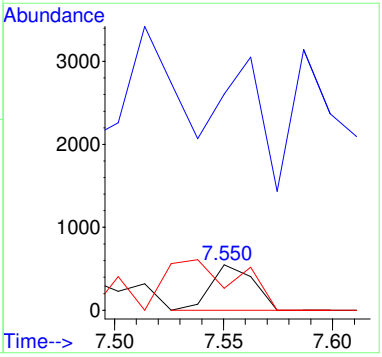


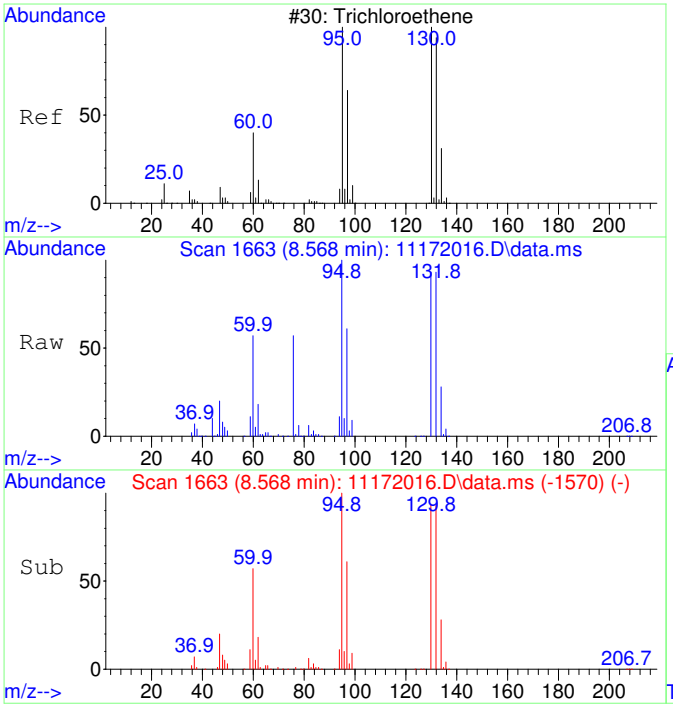


#34
1,2-Dichloroethane SCAN
Concen: 38.90 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 62 Resp: 750

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	229.9	3.9	63.9#

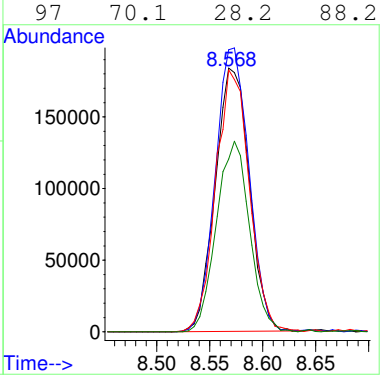


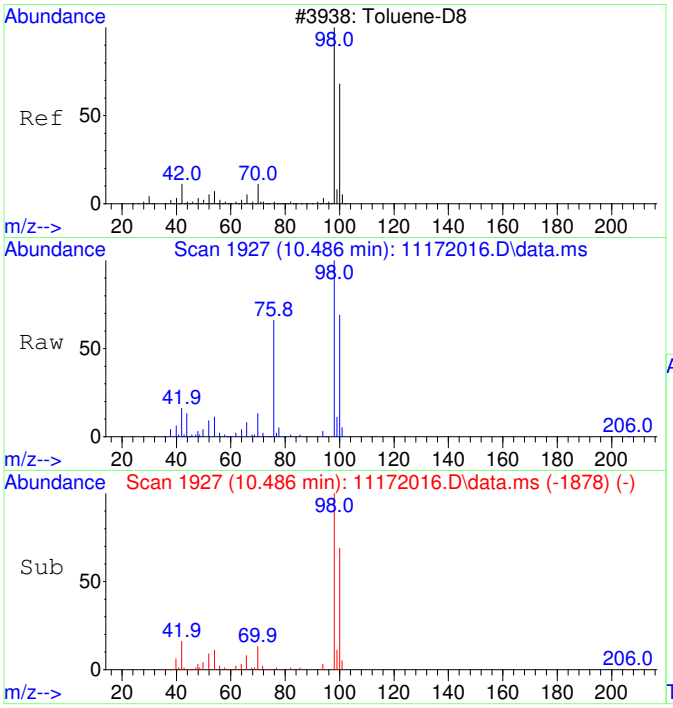


#35
Trichloroethene SCAN
Concen: 28684.96 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:130 Resp: 411579

Ion	Ratio	Lower	Upper
130	100		
95	107.2	60.5	120.5
132	97.9	59.6	119.6
97	70.1	28.2	88.2

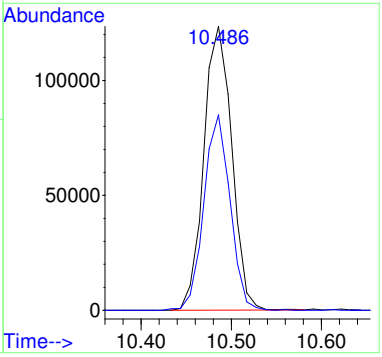


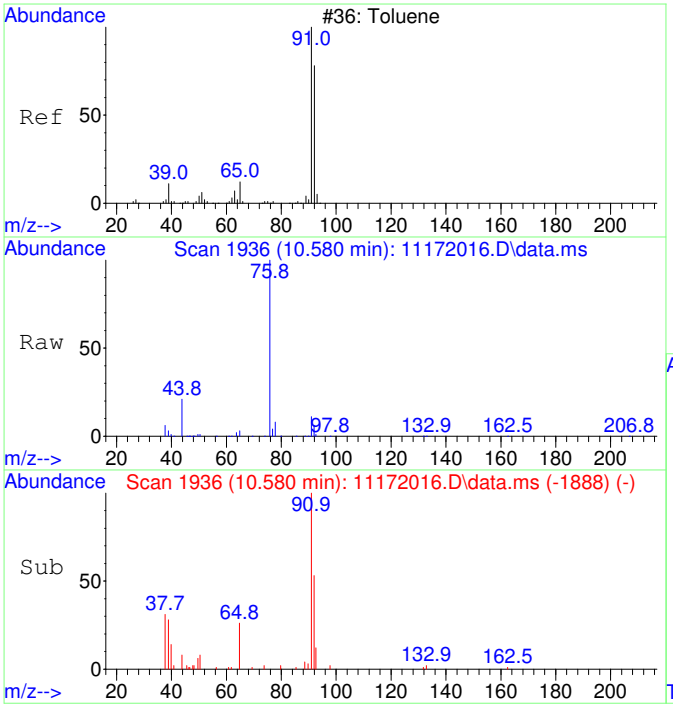


#36
Toluene-d8 SCAN
Concen: 4618.77 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 98 Resp: 265952

Ion	Ratio	Lower	Upper
98	100		
100	64.6	40.0	100.0

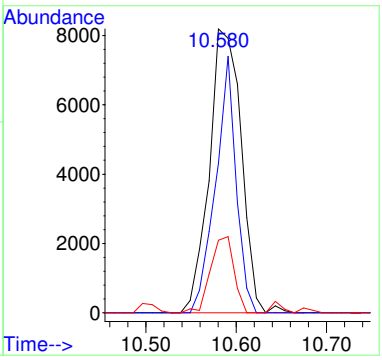


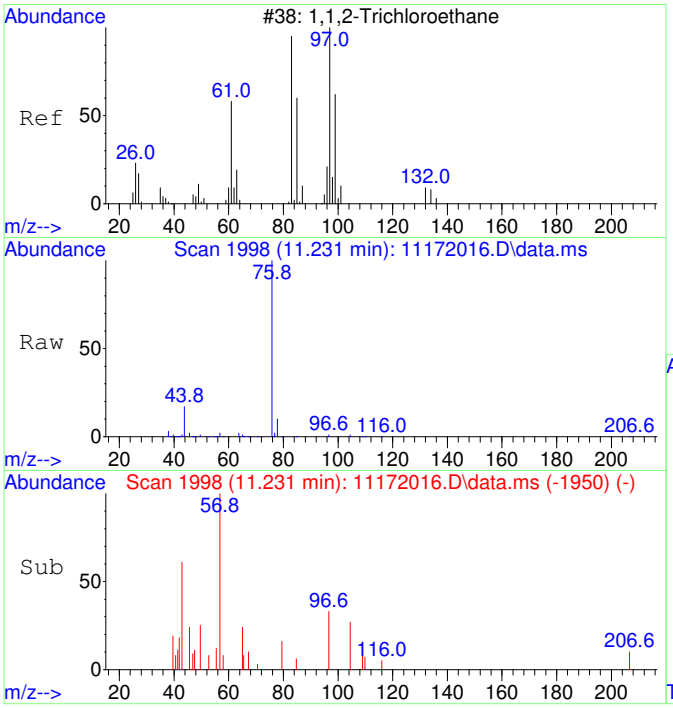


#37
Toluene SCAN
Concen: 274.62 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 20251

Ion	Ratio	Lower	Upper
91	100		
92	57.9	28.3	88.3
65	19.6	0.0	41.0

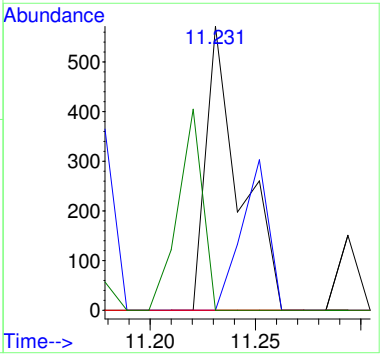


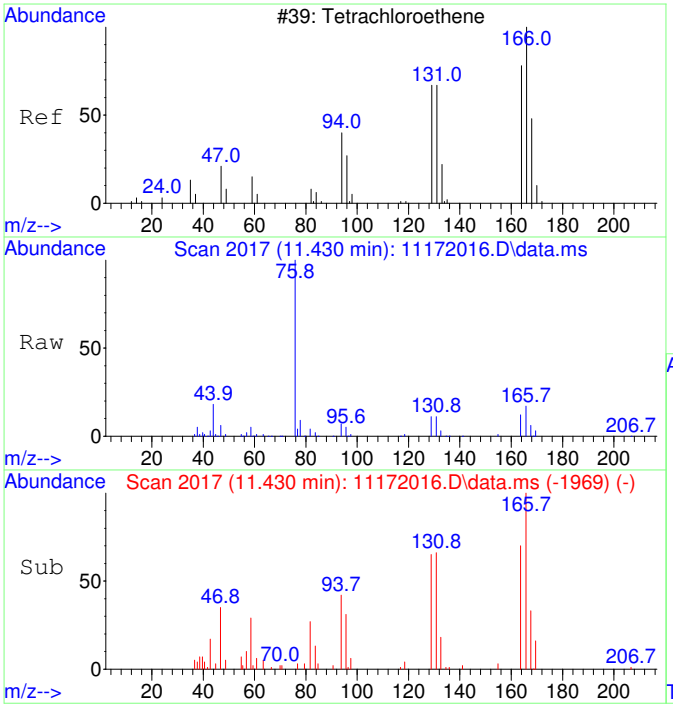


#38
1,1,2-Trichloroethane SCAN
Concen: 39.21 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 97 Resp: 649

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	51.2	36.7	96.7

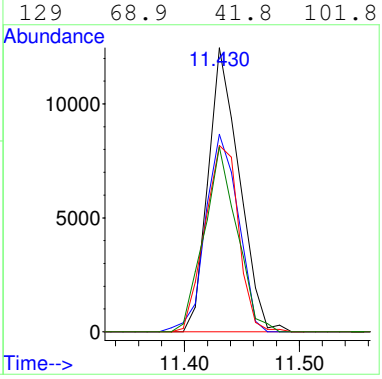


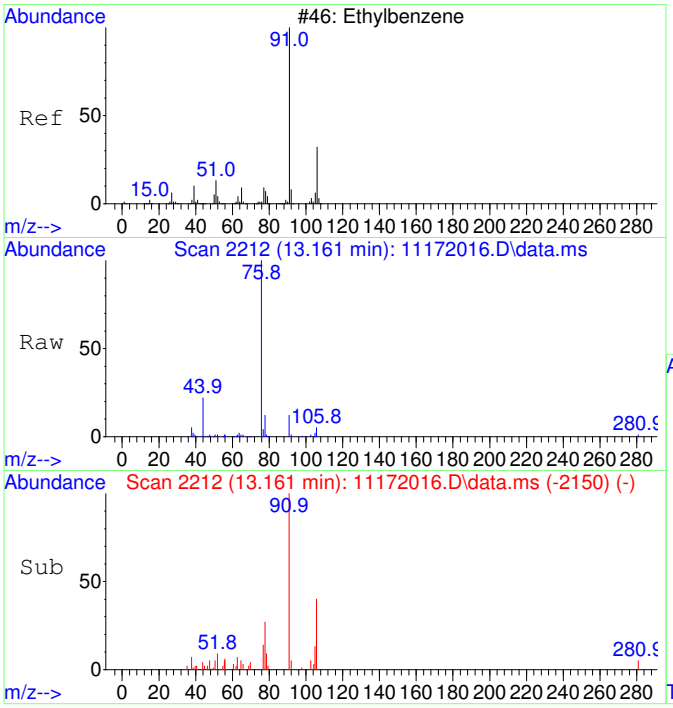


#39
Tetrachloroethene SCAN
Concen: 1328.12 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:166 Resp: 23529

Ion	Ratio	Lower	Upper
166	100		
164	73.0	50.9	110.9
131	71.3	38.7	98.7
129	68.9	41.8	101.8

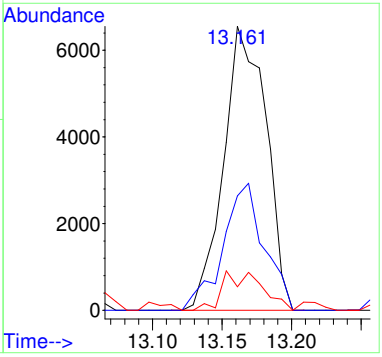


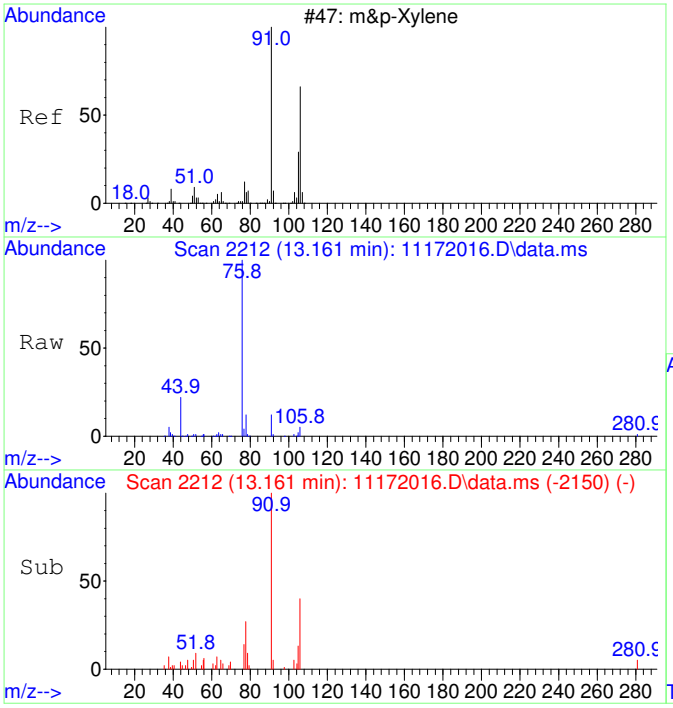


#42
Ethylbenzene SCAN
Concen: 103.85 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 13952

Ion	Ratio	Lower	Upper
91	100		
106	43.3	23.1	83.1
51	12.7	0.0	40.1

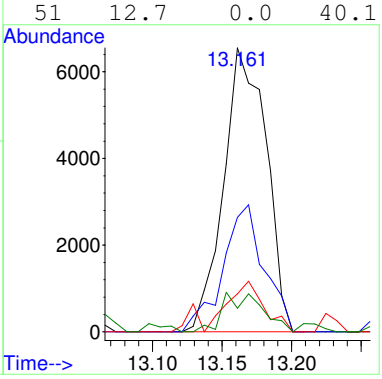


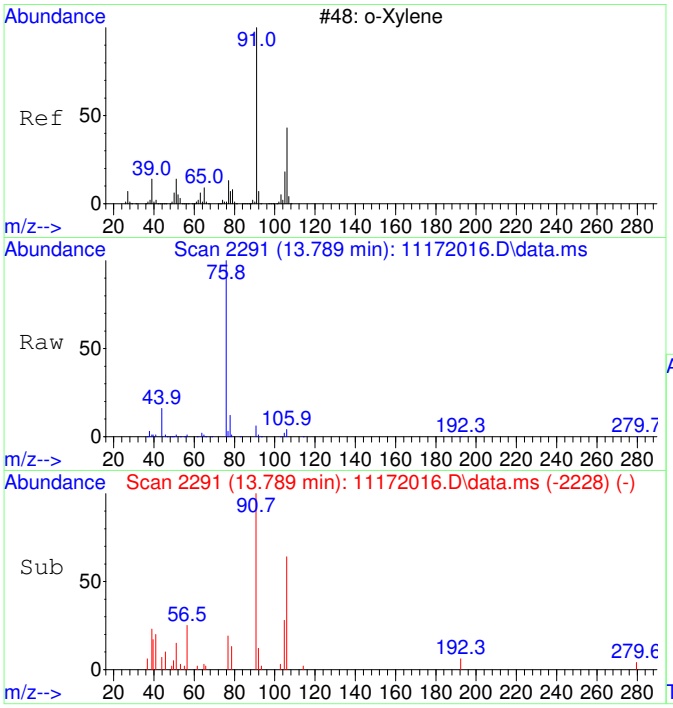


#43
m&p-Xylene SCAN
Concen: 103.85 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 13952

Ion	Ratio	Lower	Upper
91	100		
106	43.3	23.1	83.1
105	15.2	0.0	54.7
51	12.7	0.0	40.1

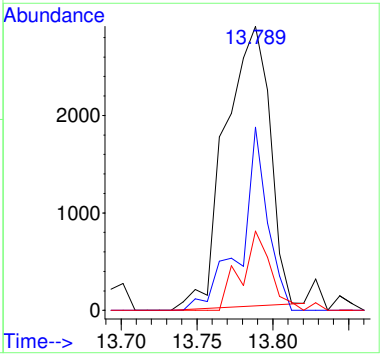


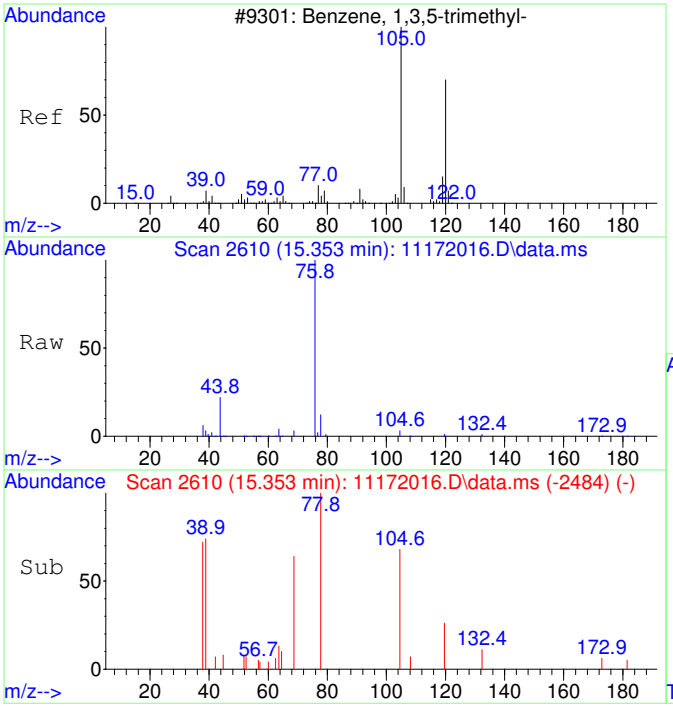


#44
o-Xylene SCAN
Concen: 81.88 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion: 91 Resp: 5888

Ion	Ratio	Lower	Upper
91	100		
106	39.1	18.0	78.0
105	19.2	0.0	56.6

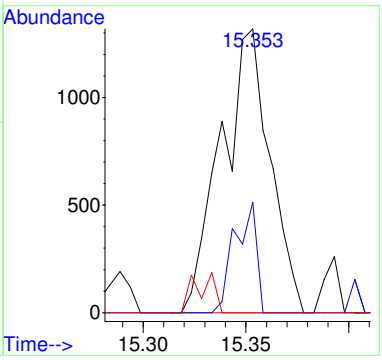


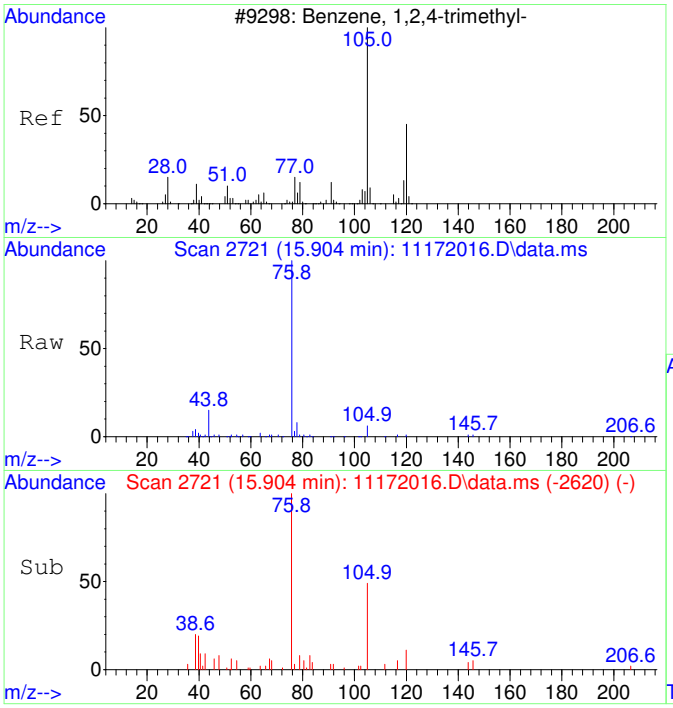


#46
1,3,5-Trimethylbenzene SCAN
Concen: 28.67 ug/L
RT: 15.353 min Scan# 2610
Delta R.T. 0.010 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:105 Resp: 2173

Ion	Ratio	Lower	Upper
105	100		
120	17.4	18.3	78.3#
119	5.8	0.0	43.1

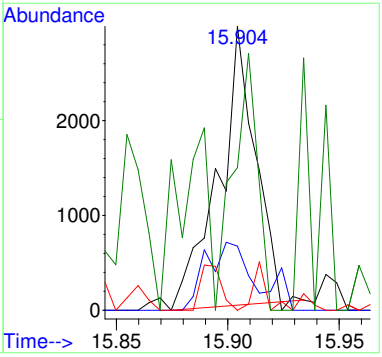




#47
1,2,4-Trimethylbenzene SCAN
Concen: 43.55 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172016.D
Acq: 17 Nov 2020 13:49

Tgt Ion:105 Resp: 3377

Ion	Ratio	Lower	Upper
105	100		
120	33.4	16.9	76.9
119	5.9	0.0	41.9
77	60.8	0.0	42.3#



2011017-06

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172017.D
Acq On : 17 Nov 2020 14:13
InstName : AG5975C
Operator : TD
Sample : 2011017-06
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 18 06:15:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

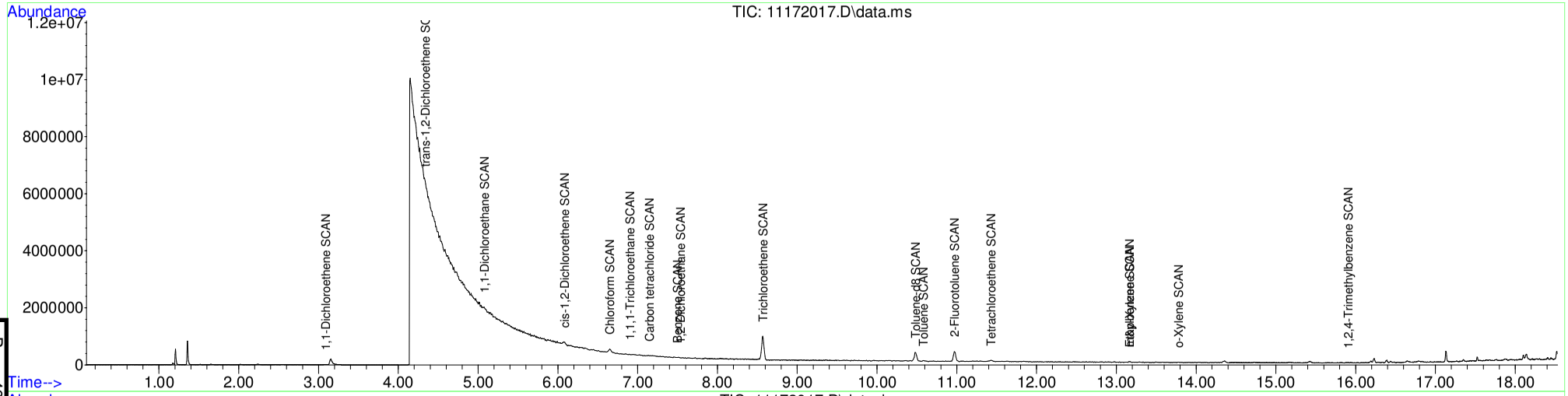
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	585831	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	502864	4384.83 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.70%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	8166	349.08 ug/L	89
3] trans-1,2-Dichloroethene	4.349	61	9451	349.68 ug/L	94
4] 1,1-Dichloroethane	5.072	63	9510	282.66 ug/L	93
5] cis-1,2-Dichloroethene	6.081	61	169737	4779.44 ug/L	99
6] Chloroform	6.652	83	206852	5690.58 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	6591	166.96 ug/L	99
8] Carbon tetrachloride	7.175	117	4330	116.54 ug/L	99
9] Benzene	7.503	78	19179	192.68 ug/L	64
10] 1,2-Dichloroethane	7.540	62	1271	35.77 ug/L #	1
11] Trichloroethene	8.569	130	600128	20024.98 ug/L	94
13] Toluene	10.582	91	39812	272.29 ug/L	98
14] 1,1,2-Trichloroethane	11.159	97	702	22.03 ug/L #	15
15] Tetrachloroethene	11.432	166	30427	719.10 ug/L	99
18] Ethylbenzene	12.972	91	13128	73.77 ug/L	94
19] m&p-Xylene	13.162	91	28653	206.00 ug/L	95
20] o-Xylene	13.782	91	11381	76.59 ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	11531	70.19 ug/L	89
25) 2-Fluorotoluene SCAN	10.969	109	280795	4916.94 ug/L	98
26) 1,1-Dichloroethene SCAN	3.085	61	2595	213.97 ug/L #	42
27) trans-1,2-Dichloroethe...	4.335	61	2092	139.40 ug/L	72
28) 1,1-Dichloroethane SCAN	5.078	63	2553	146.99 ug/L	92
29) cis-1,2-Dichloroethene...	6.086	61	85081	4572.15 ug/L #	79
30) Chloroform SCAN	6.650	83	101963	5051.79 ug/L	91
31) 1,1,1-Trichloroethane ...	6.906	97	4429	240.80 ug/L	79
32) Carbon tetrachloride SCAN	7.149	117	2265	118.06 ug/L #	22
33) Benzene SCAN	7.502	78	17201	339.66 ug/L	96
34) 1,2-Dichloroethane SCAN	7.538	62	516	27.59 ug/L #	1
35) Trichloroethene SCAN	8.568	130	280729	20171.81 ug/L	88
36) Toluene-d8 SCAN	10.486	98	260091	4656.99 ug/L	92
37) Toluene SCAN	10.580	91	21885	305.98 ug/L	99
39) Tetrachloroethene SCAN	11.430	166	13108	762.83 ug/L	92
42) Ethylbenzene SCAN	13.169	91	17503	134.32 ug/L	88
43) m&p-Xylene SCAN	13.169	91	17503	134.32 ug/L	86
44) o-Xylene SCAN	13.781	91	5668	81.26 ug/L	76
47) 1,2,4-Trimethylbenzene...	15.909	105	6566	87.30 ug/L	71

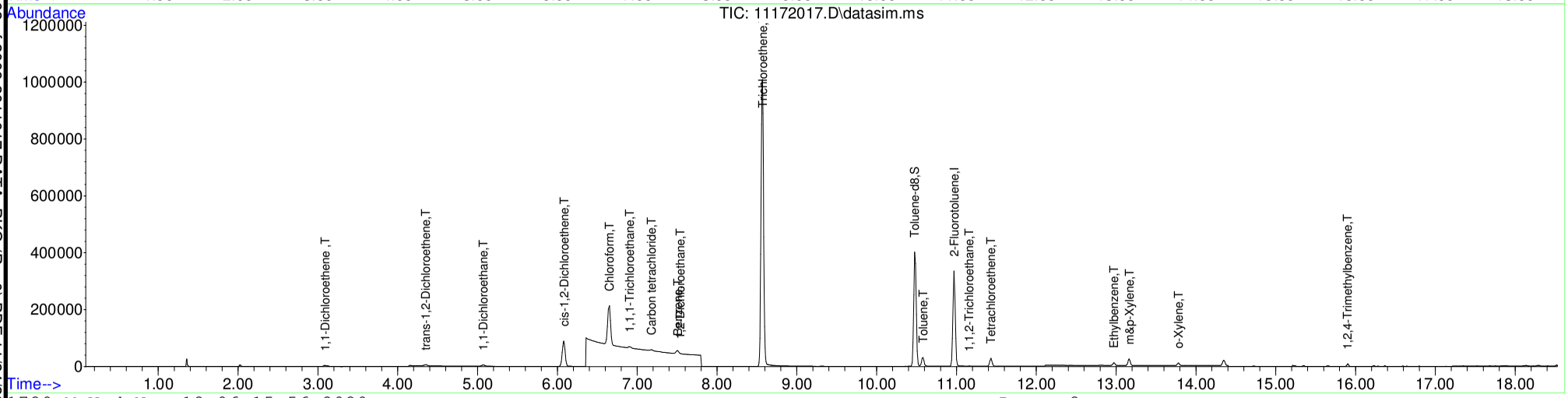
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172017.D
Acq On : 17 Nov 2020 14:13
InstName : AG5975C
Operator : TD
Sample : 2011017-06
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 18 06:15:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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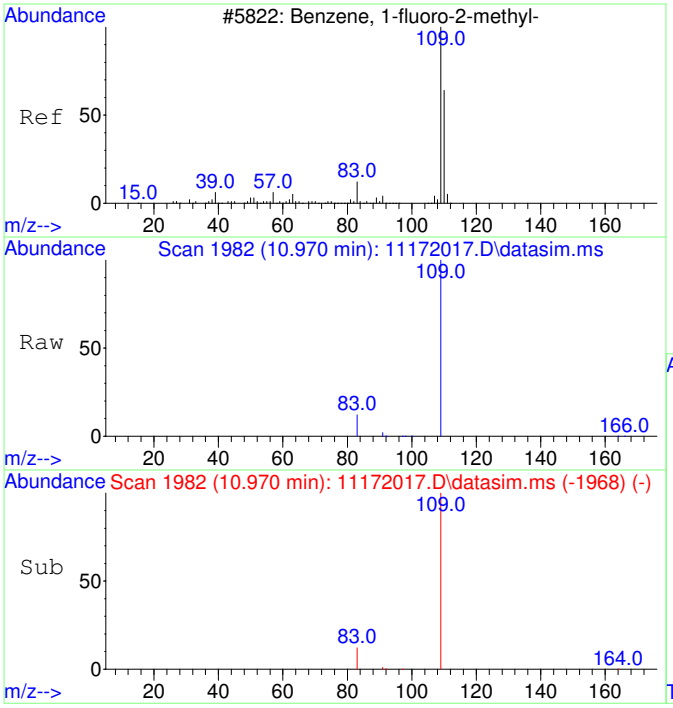
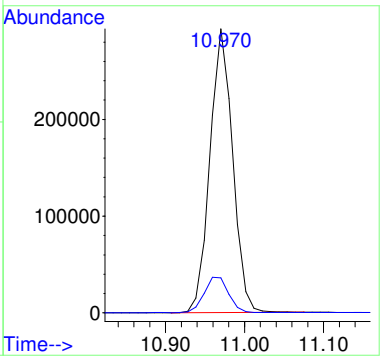
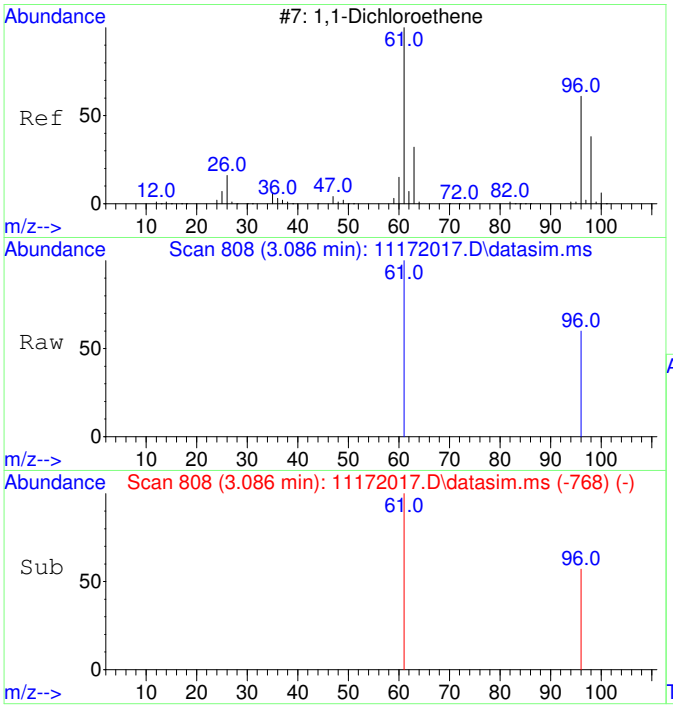


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:109 Resp: 585831

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

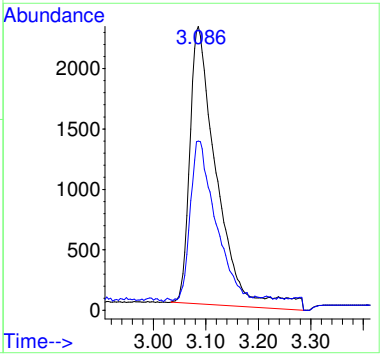




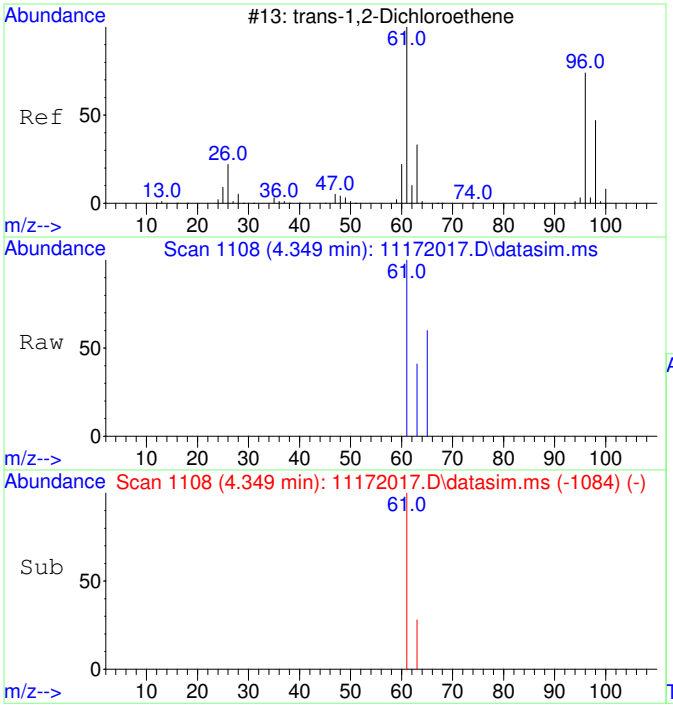
#2
1,1-Dichloroethene
Concen: 349.08 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 61 Resp: 8166

Ion	Ratio	Lower	Upper
61	100		
96	58.2	37.2	97.2



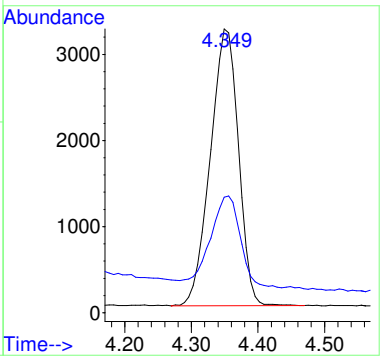
Before MI:
IMPROPER
BASELINE

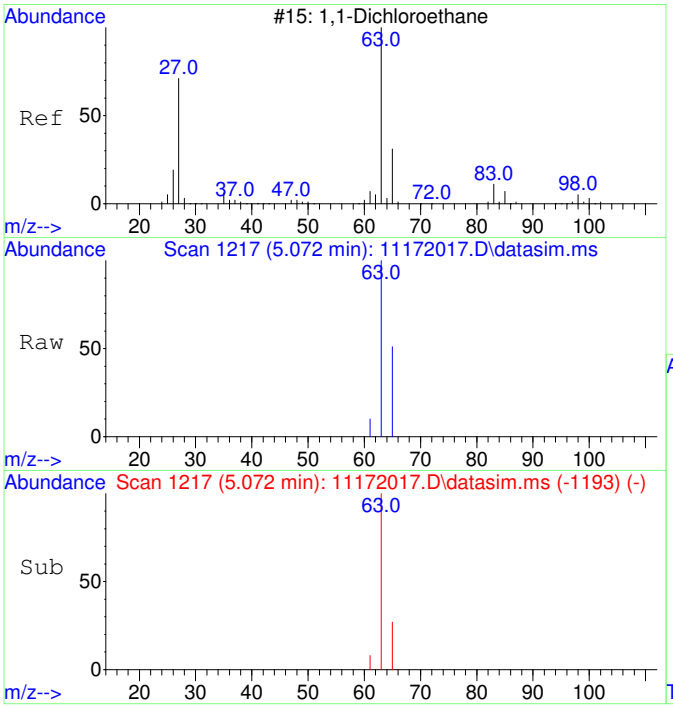


#3
trans-1,2-Dichloroethene
Concen: 349.68 ug/L
RT: 4.349 min Scan# 1108
Delta R.T. 0.007 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 61 Resp: 9451

Ion	Ratio	Lower	Upper
61	100		
63	35.9	2.4	62.4

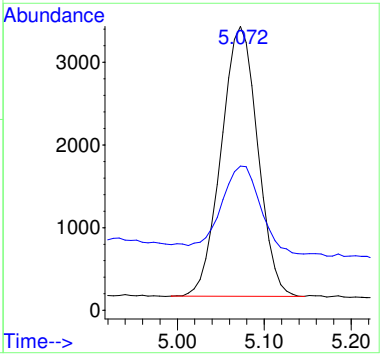


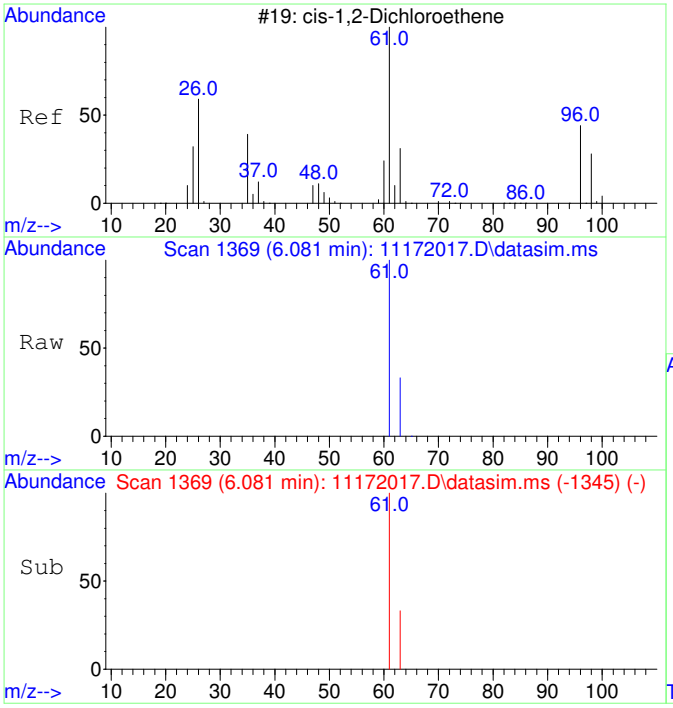


#4
1,1-Dichloroethane
Concen: 282.66 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 63 Resp: 9510

Ion	Ratio	Lower	Upper
63	100		
65	35.7	1.8	61.8

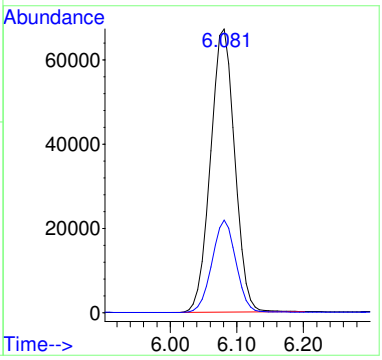


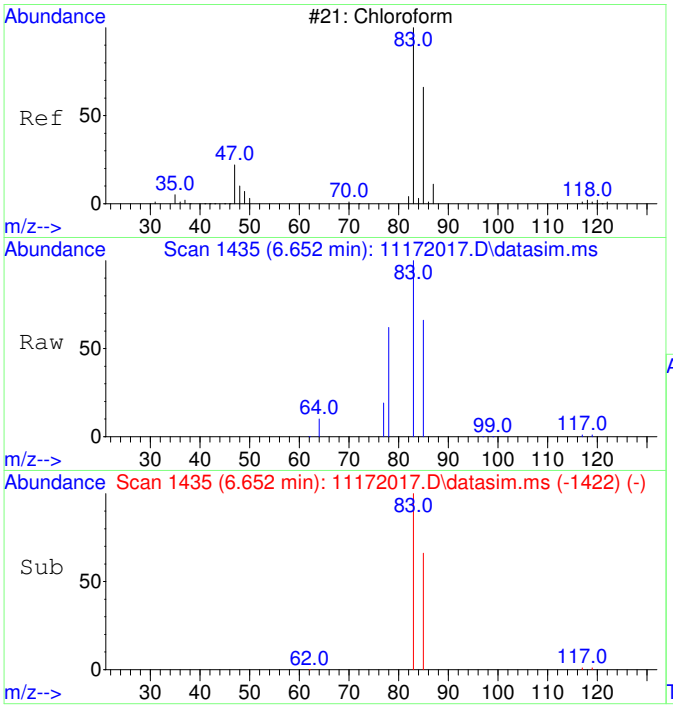


#5
cis-1,2-Dichloroethene
Concen: 4779.44 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 61 Resp: 169737

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

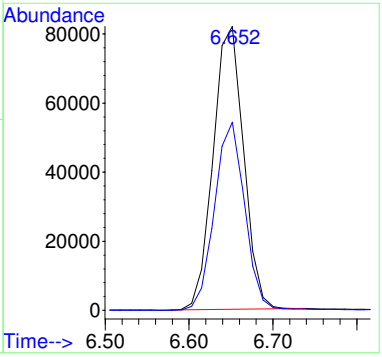


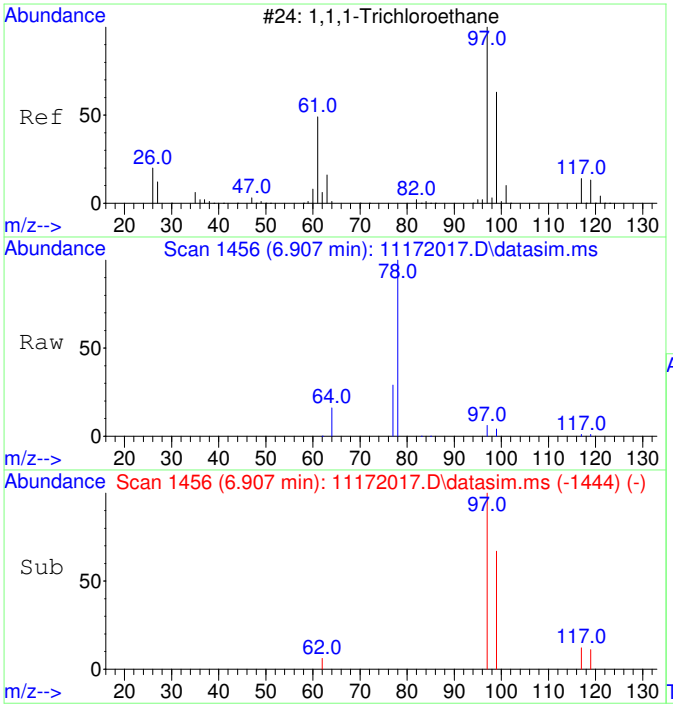


#6
Chloroform
Concen: 5690.58 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 83 Resp: 206852

Ion	Ratio	Lower	Upper
83	100		
85	64.9	35.1	95.1

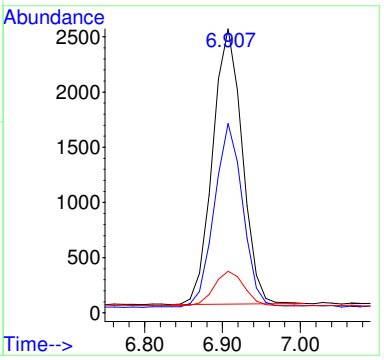


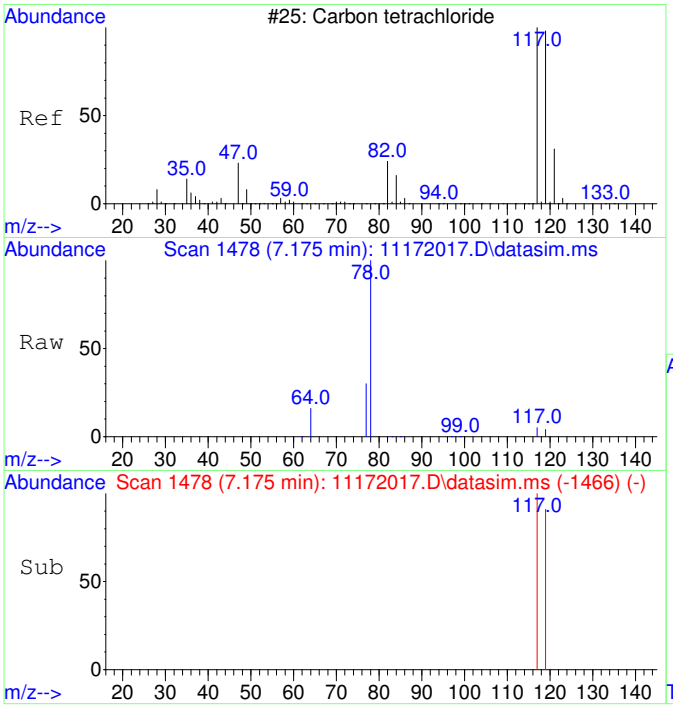


#7
1,1,1-Trichloroethane
Concen: 166.96 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 97 Resp: 6591

Ion	Ratio	Lower	Upper
97	100		
99	63.7	34.6	94.6
117	12.6	0.0	43.2

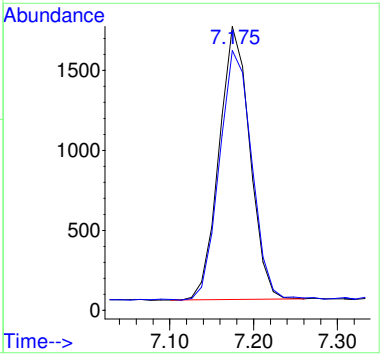


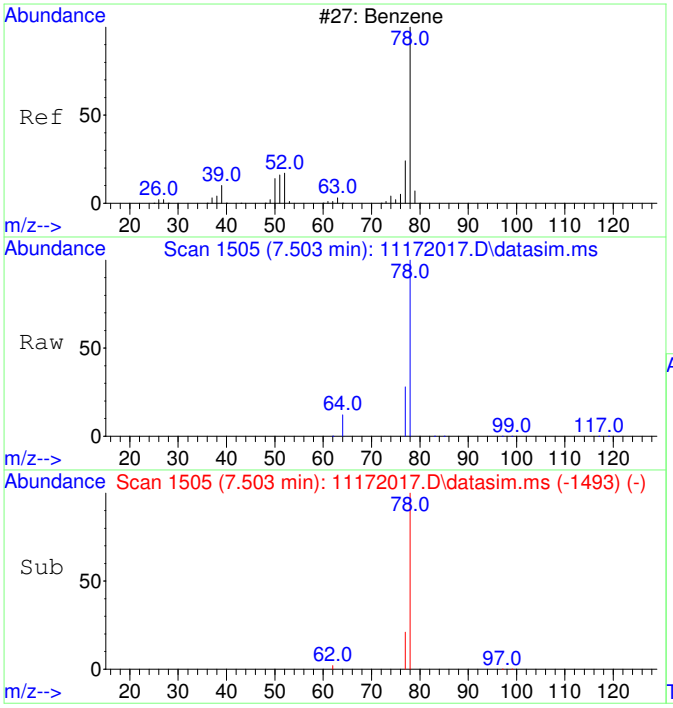


#8
Carbon tetrachloride
Concen: 116.54 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:117 Resp: 4330

Ion	Ratio	Lower	Upper
117	100		
119	95.1	66.4	126.4

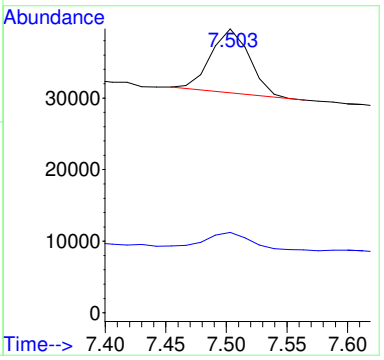


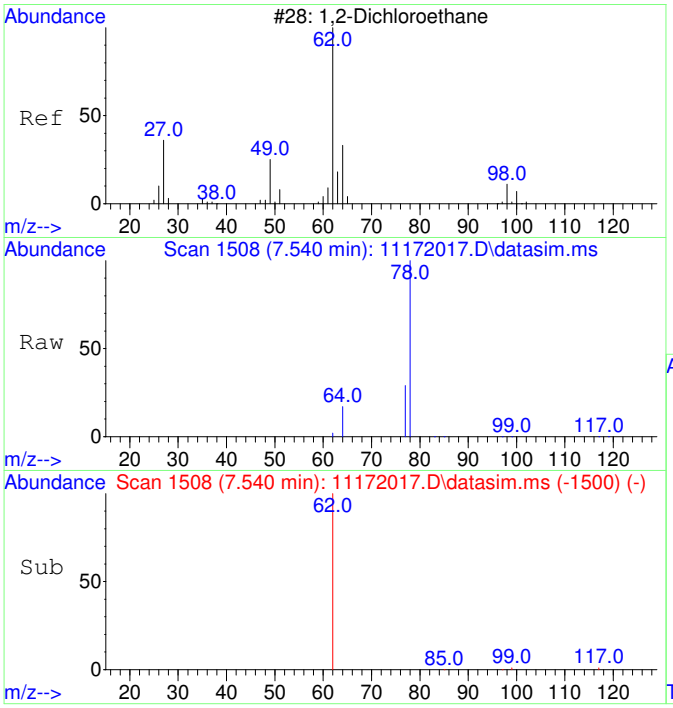


#9
Benzene
Concen: 192.68 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 78 Resp: 19179

Ion	Ratio	Lower	Upper
78	100		
77	40.5	0.0	53.2

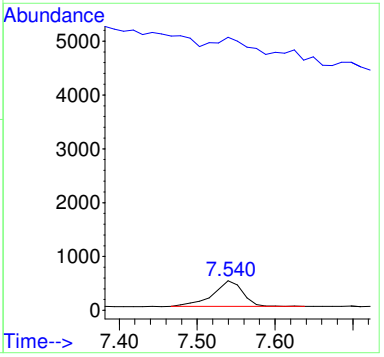


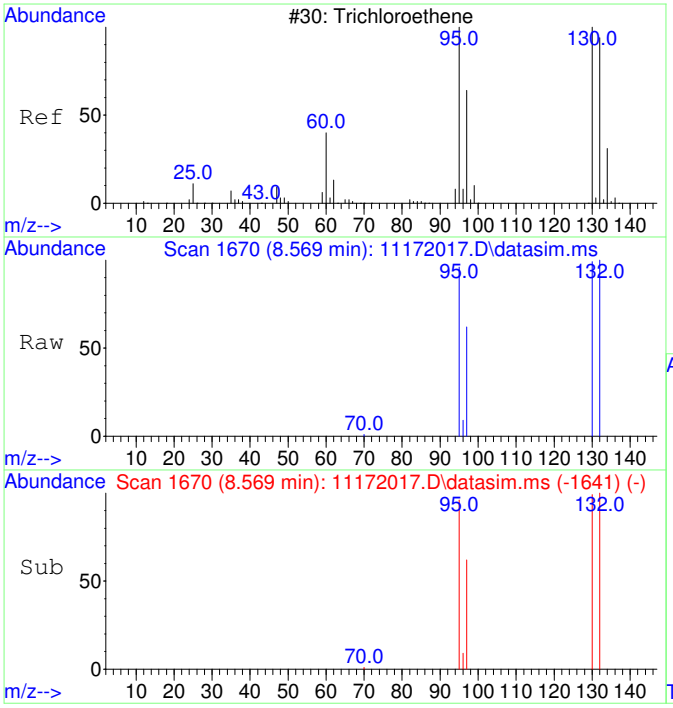


#10
1,2-Dichloroethane
Concen: 35.77 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 62 Resp: 1271

Ion	Ratio	Lower	Upper
62	100		
64	139.3	2.3	62.3#

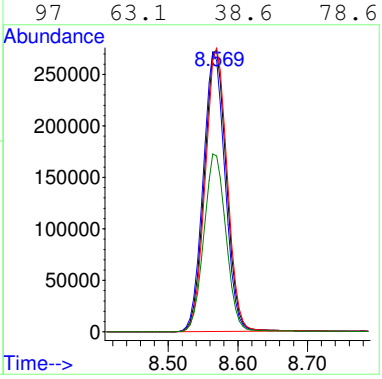


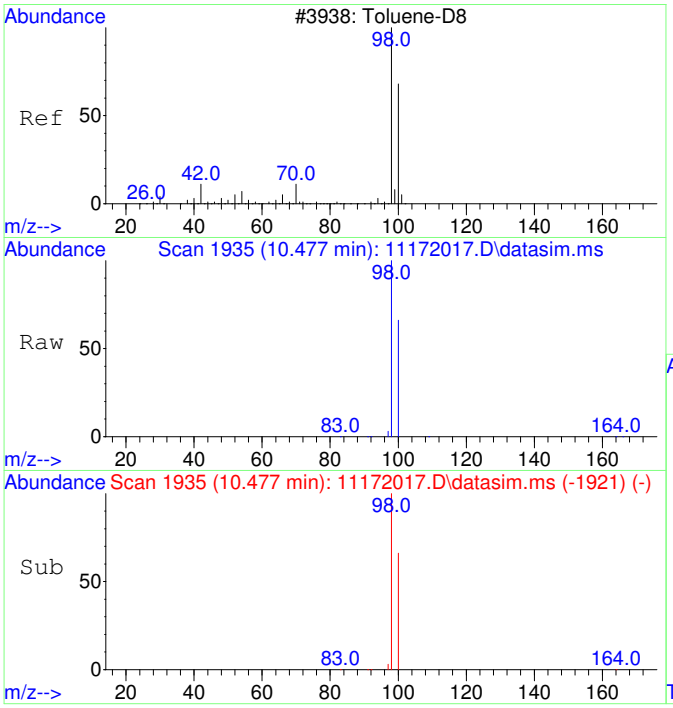


#11
Trichloroethene
Concen: 20024.98 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:130 Resp: 600128

Ion	Ratio	Lower	Upper
130	100		
95	98.6	60.7	120.7
132	99.9	76.0	116.0
97	63.1	38.6	78.6

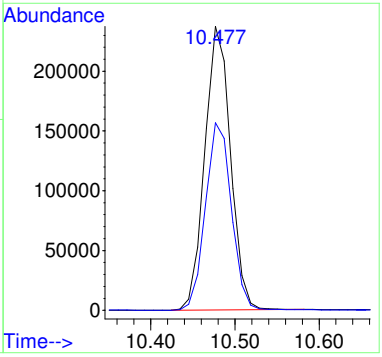


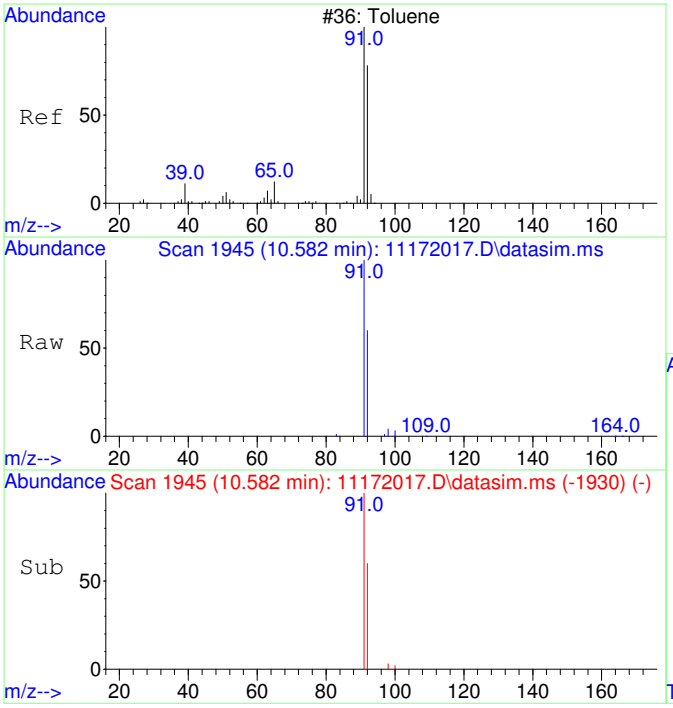


#12
Toluene-d8
Concen: 4384.83 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 98 Resp: 502864

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

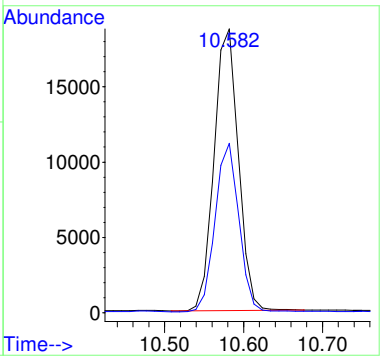


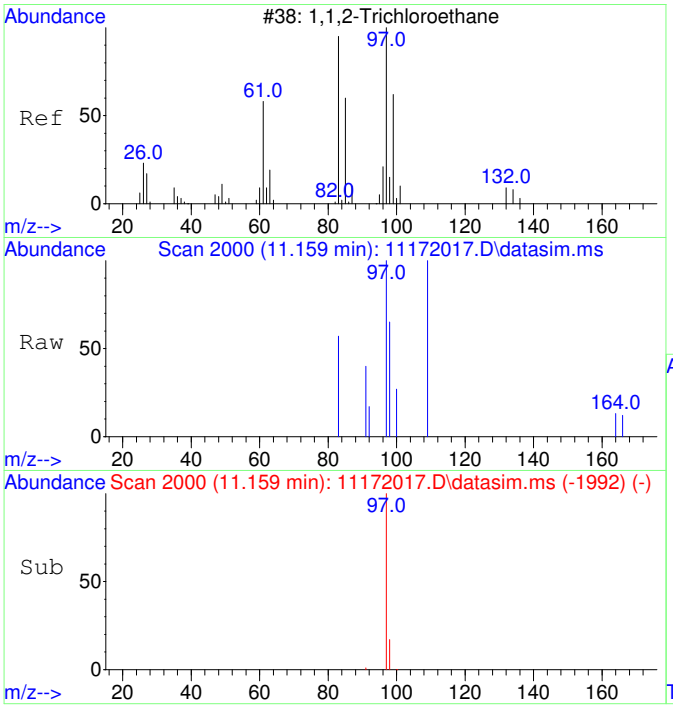


#13
Toluene
Concen: 272.29 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 39812

Ion	Ratio	Lower	Upper
91	100		
92	58.3	29.9	89.9

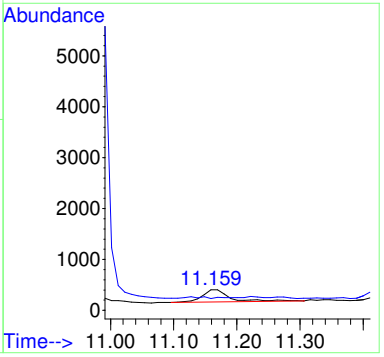


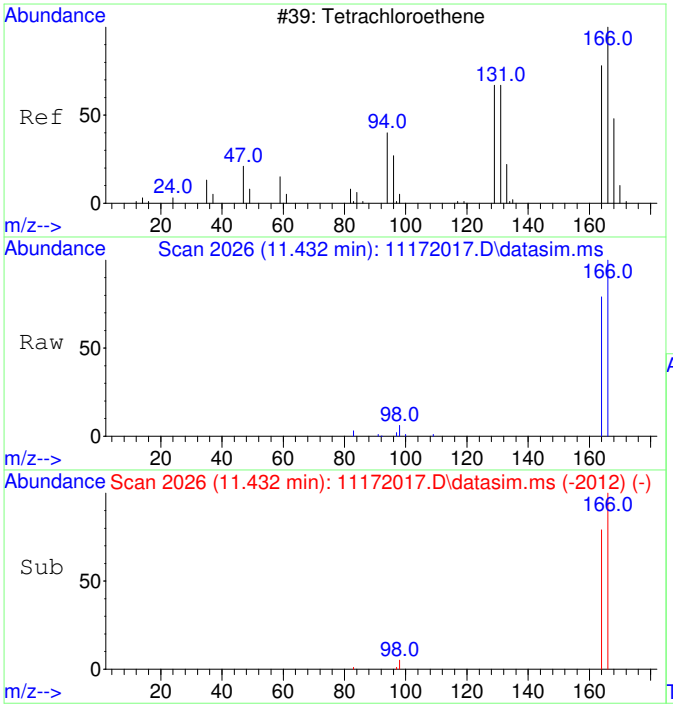


#14
1,1,2-Trichloroethane
Concen: 22.03 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 97 Resp: 702

Ion	Ratio	Lower	Upper
97	100		
83	5.6	51.2	111.2#

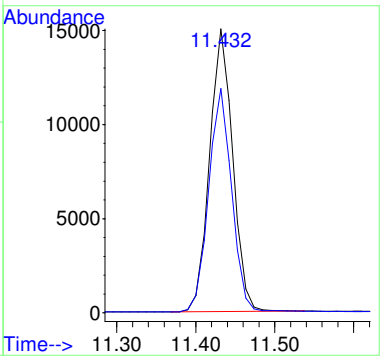


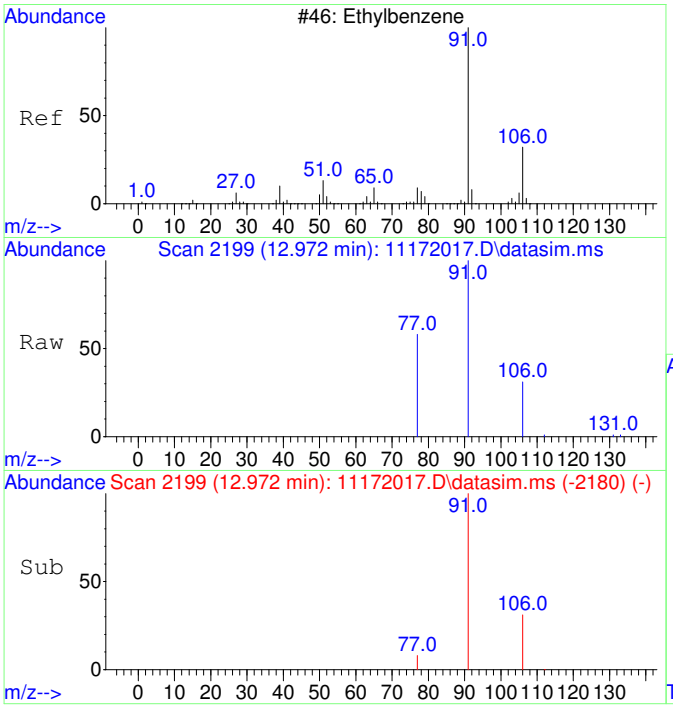


#15
Tetrachloroethene
Concen: 719.10 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:166 Resp: 30427

Ion	Ratio	Lower	Upper
166	100		
164	78.4	47.8	107.8

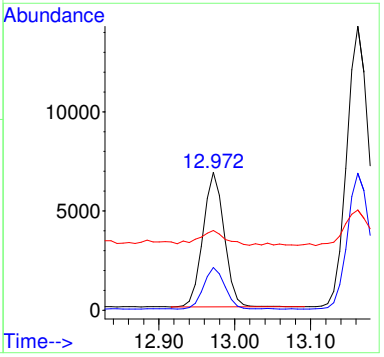


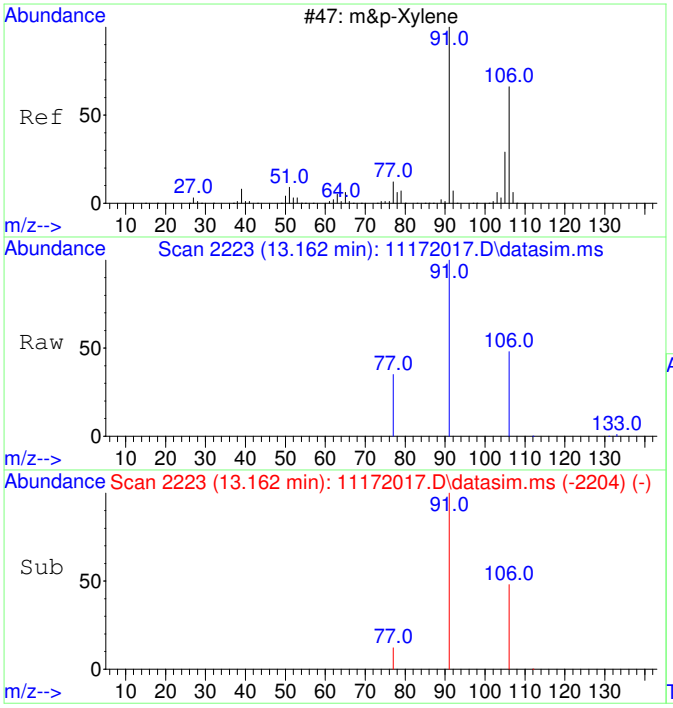


#18
Ethylbenzene
Concen: 73.77 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 13128

Ion	Ratio	Lower	Upper
91	100		
106	30.8	3.0	63.0
77	13.1	0.0	38.2

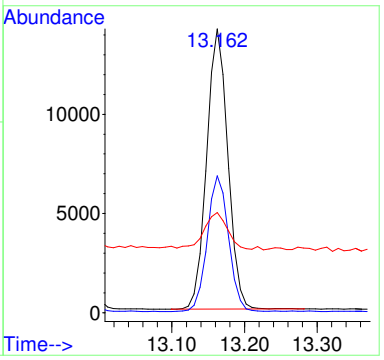


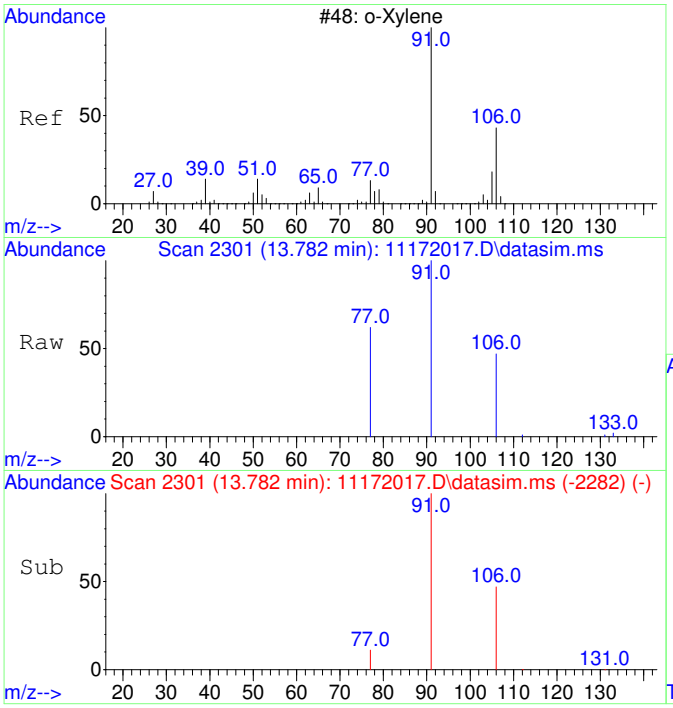


#19
m&p-Xylene
Concen: 206.00 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 28653

Ion	Ratio	Lower	Upper
91	100		
106	48.4	22.2	82.2
77	14.4	0.0	42.4

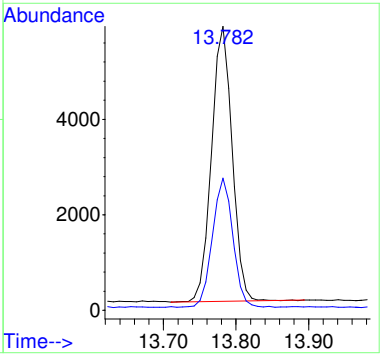


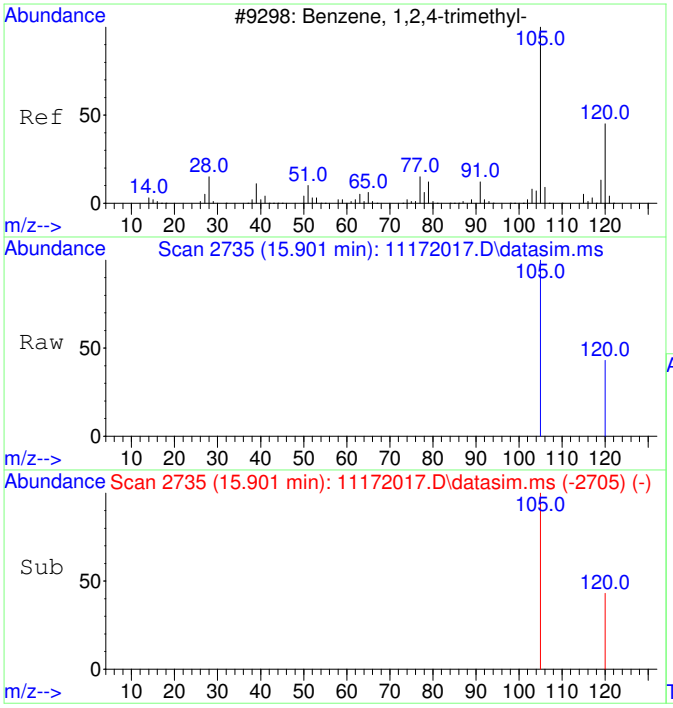


#20
o-Xylene
Concen: 76.59 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 11381

Ion	Ratio	Lower	Upper
91	100		
106	46.8	19.2	79.2

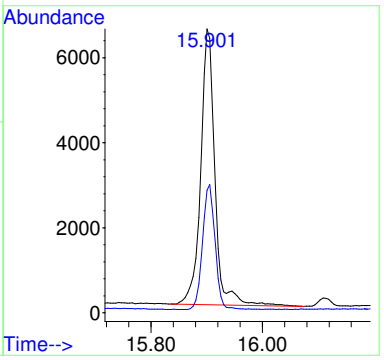


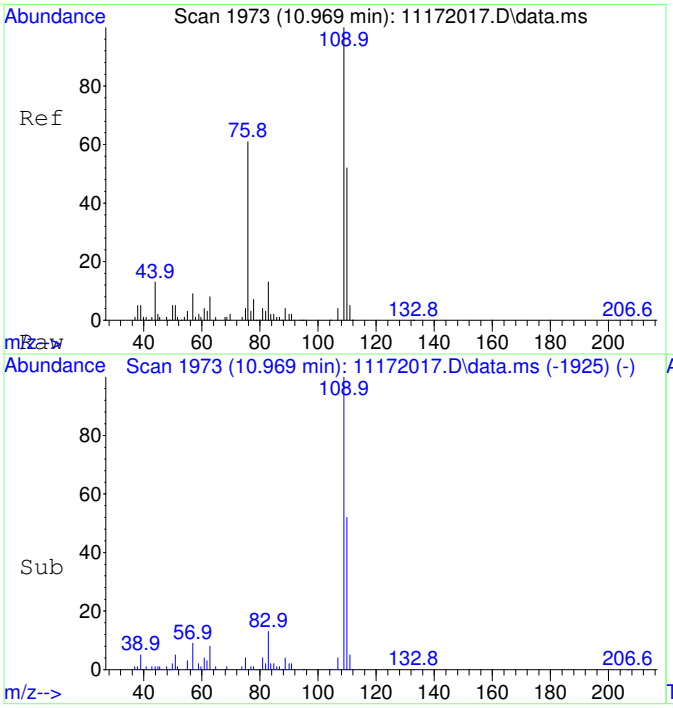


#23
1,2,4-Trimethylbenzene
Concen: 70.19 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:105 Resp: 11531

Ion	Ratio	Lower	Upper
105	100		
120	39.9	17.2	77.2

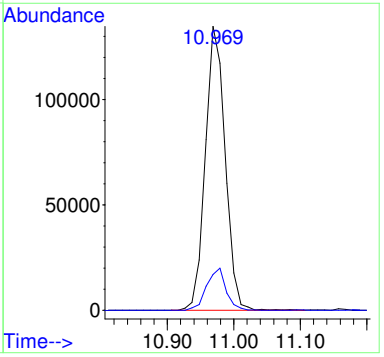


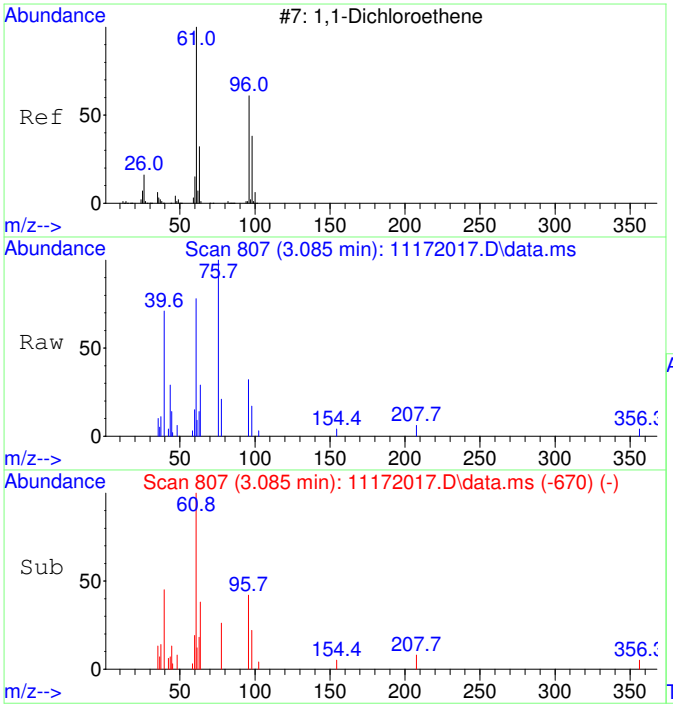


#25
2-Fluorotoluene SCAN
Concen: 4916.94 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:109 Resp: 280795

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	43.8

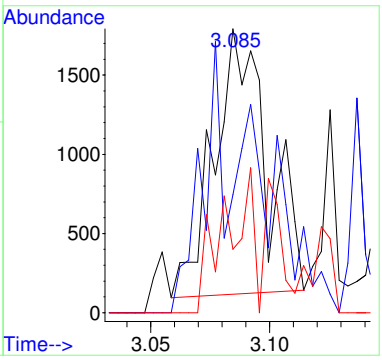


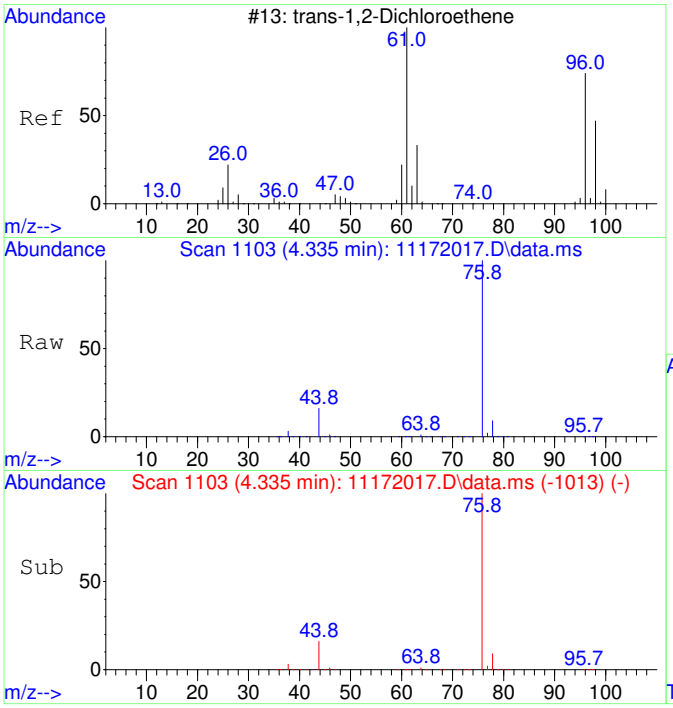


#26
1,1-Dichloroethene SCAN
Concen: 213.97 ug/L
RT: 3.085 min Scan# 807
Delta R.T. 0.007 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 61 Resp: 2595

Ion	Ratio	Lower	Upper
61	100		
96	21.5	33.1	93.1#
98	0.0	11.2	71.2#

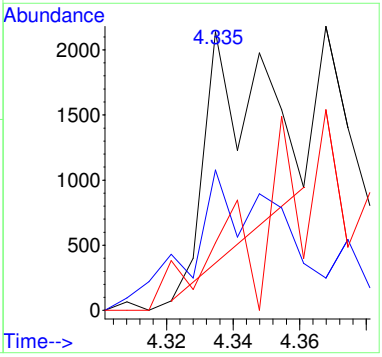


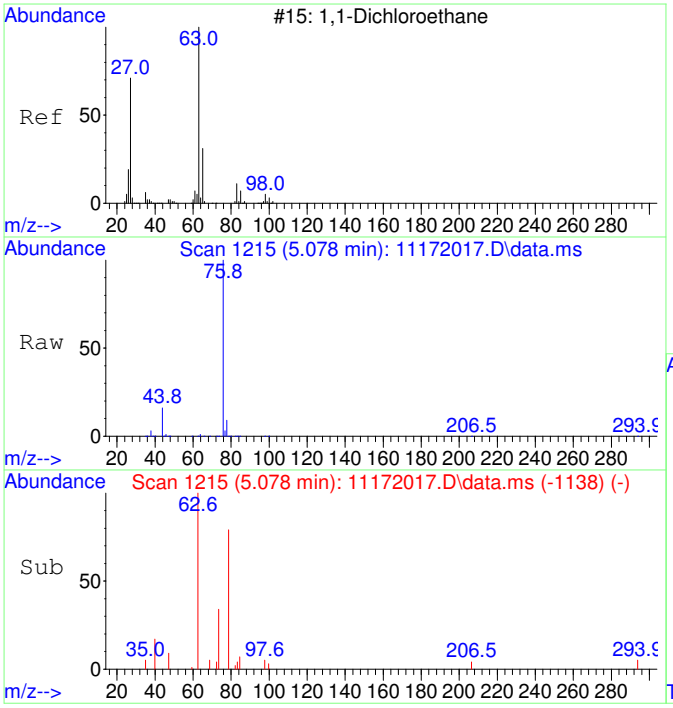


#27
trans-1,2-Dichloroethene SCAN
Concen: 139.40 ug/L
RT: 4.335 min Scan# 1103
Delta R.T. -0.013 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 61 Resp: 2092

Ion	Ratio	Lower	Upper
61	100		
96	107.4	49.0	109.0
98	36.3	20.5	80.5

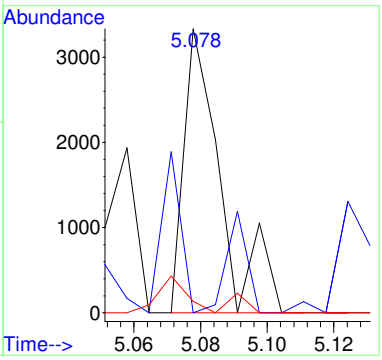


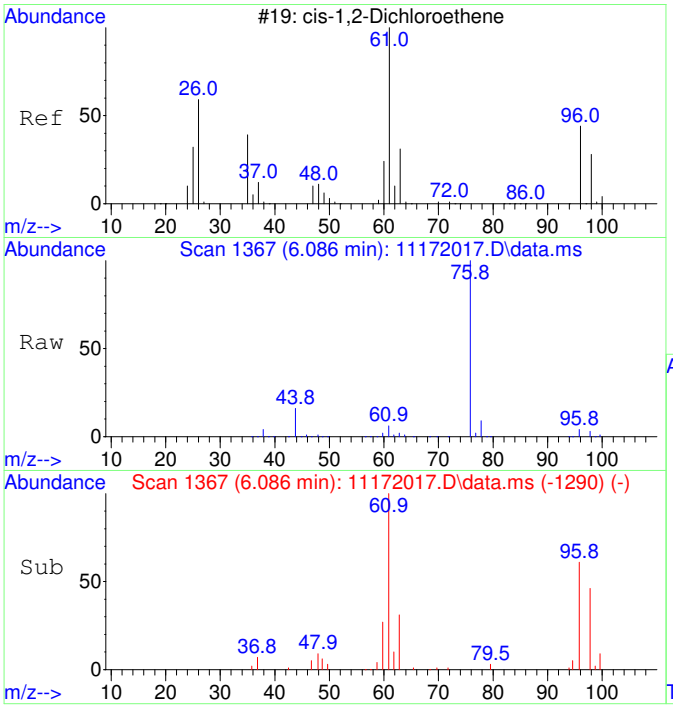


#28
1,1-Dichloroethane SCAN
Concen: 146.99 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 63 Resp: 2553

Ion	Ratio	Lower	Upper
63	100		
65	28.8	1.3	61.3
83	10.3	0.0	45.9

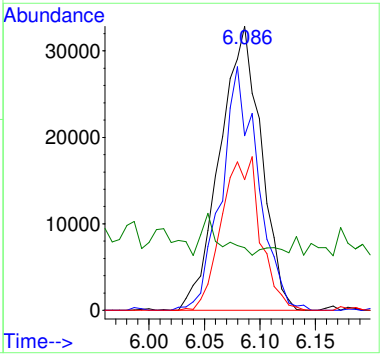


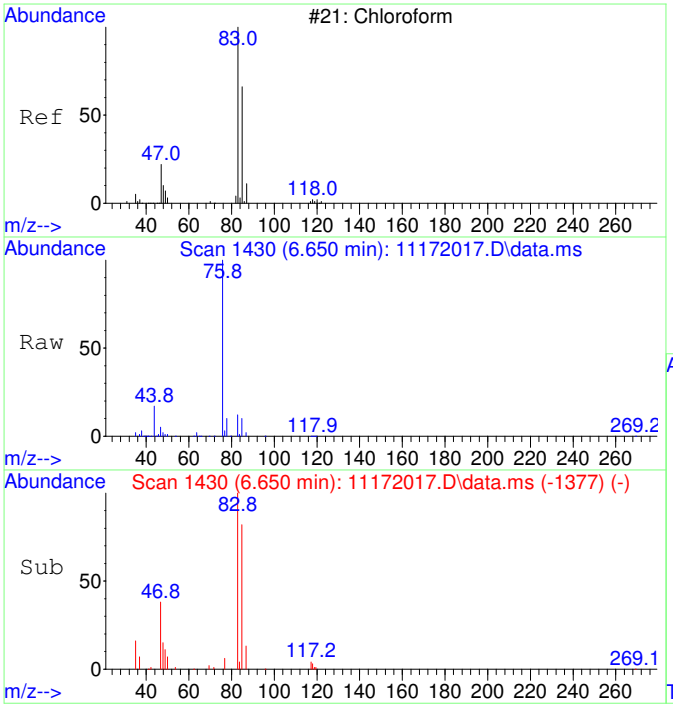


#29
cis-1,2-Dichloroethene SCAN
Concen: 4572.15 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 61 Resp: 85081

Ion	Ratio	Lower	Upper
61	100		
96	76.2	39.9	99.9
98	50.6	13.5	73.5
64	0.0	4.5	64.5#

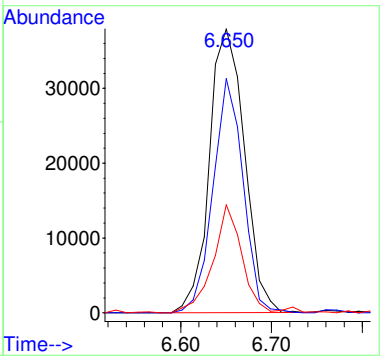


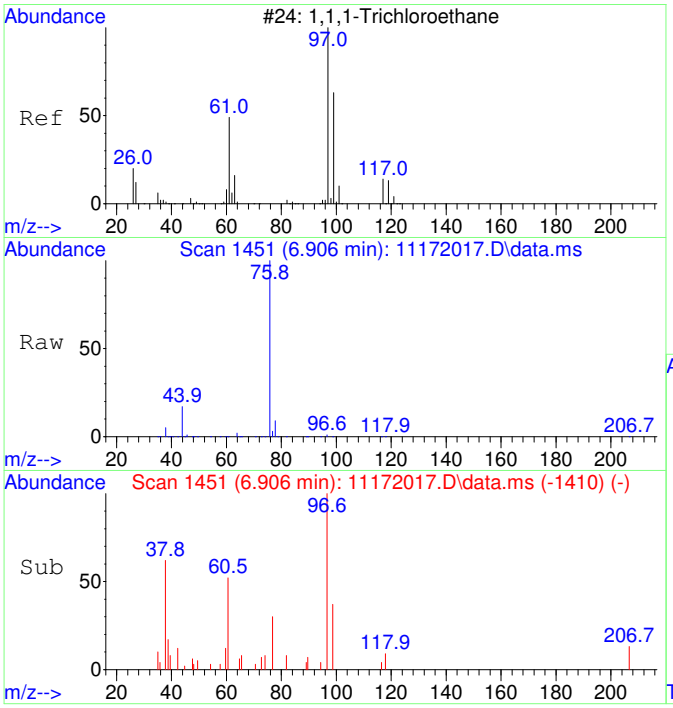


#30
Chloroform SCAN
Concen: 5051.79 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 83 Resp: 101963

Ion	Ratio	Lower	Upper
83	100		
85	70.6	34.6	94.6
47	30.2	0.0	53.4

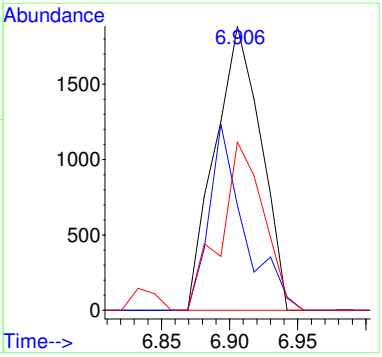


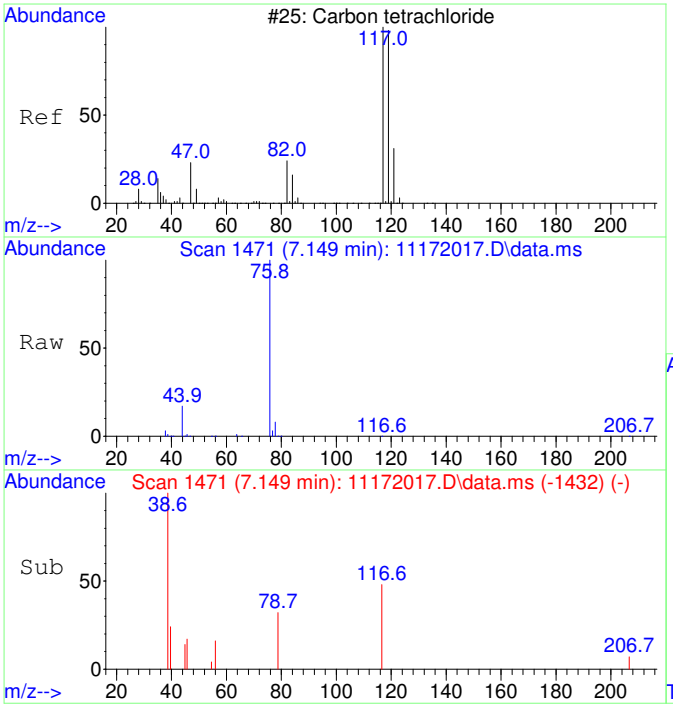


#31
1,1,1-Trichloroethane SCAN
Concen: 240.80 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 97 Resp: 4429

Ion	Ratio	Lower	Upper
97	100		
99	50.1	43.6	103.6
61	55.5	18.0	78.0

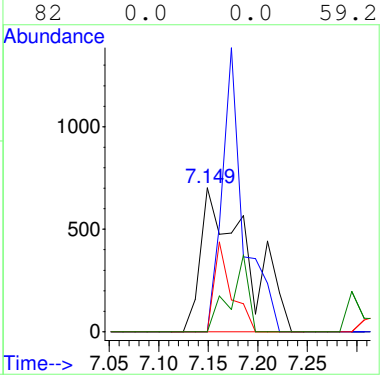


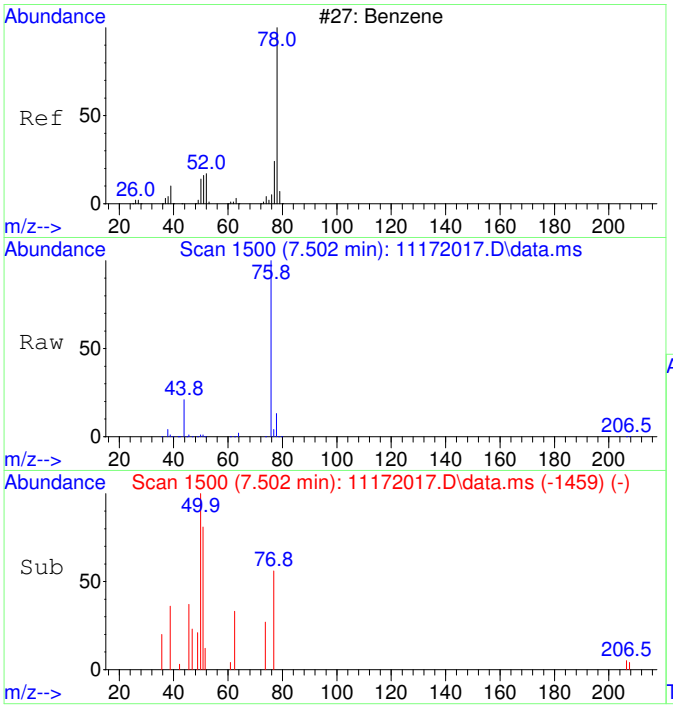


#32
Carbon tetrachloride SCAN
Concen: 118.06 ug/L
RT: 7.149 min Scan# 1471
Delta R.T. -0.024 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:117 Resp: 2265

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	23.5	0.0	58.8
82	0.0	0.0	59.2

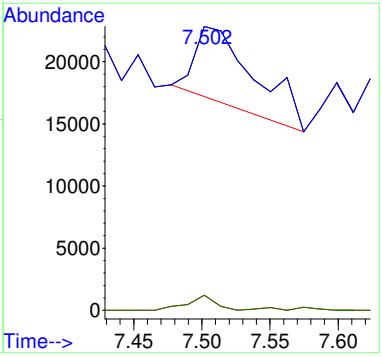


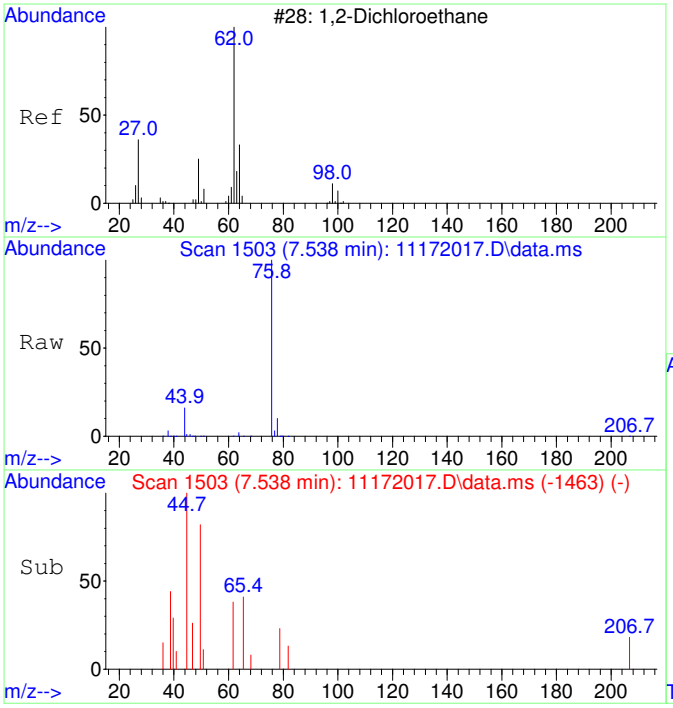


#33
Benzene SCAN
Concen: 339.66 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 78 Resp: 17201

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	9.1	0.0	47.9
51	9.1	0.0	44.1

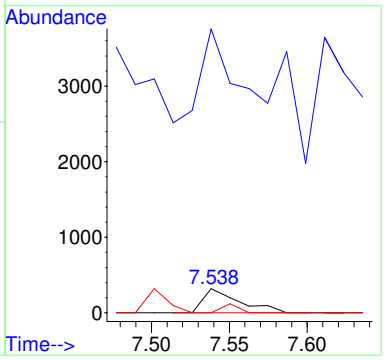


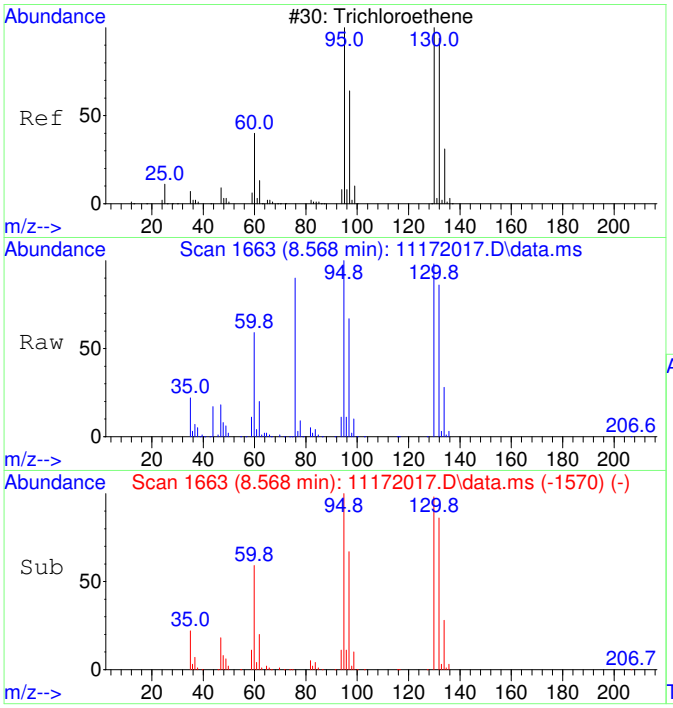


#34
1,2-Dichloroethane SCAN
Concen: 27.59 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 62 Resp: 516

Ion	Ratio	Lower	Upper
62	100		
64	698.3	5.2	65.2#
49	16.9	3.9	63.9

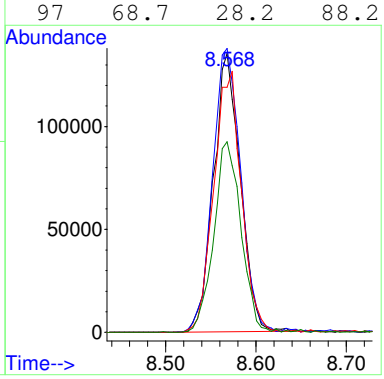


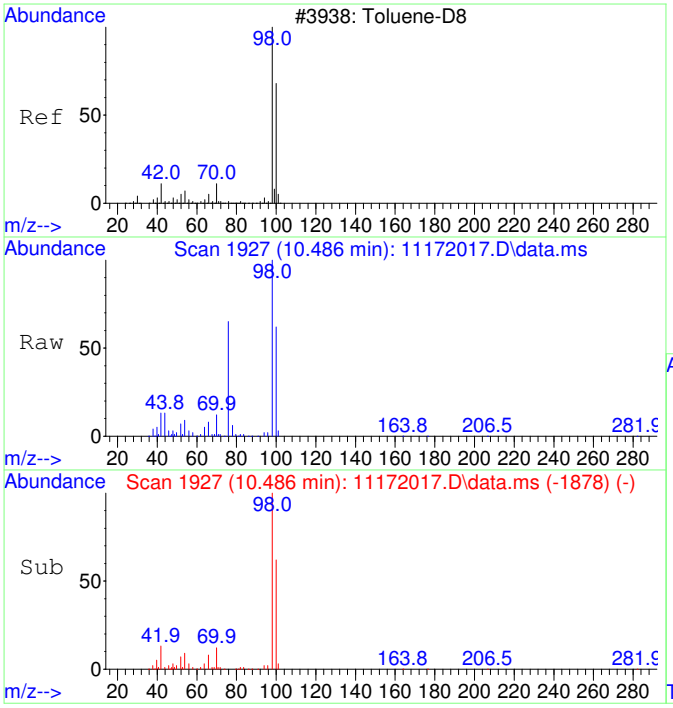


#35
Trichloroethene SCAN
Concen: 20171.81 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:130 Resp: 280729

Ion	Ratio	Lower	Upper
130	100		
95	105.8	60.5	120.5
132	95.9	59.6	119.6
97	68.7	28.2	88.2

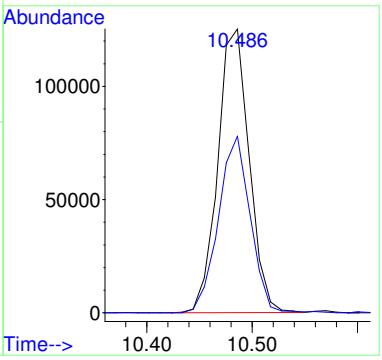


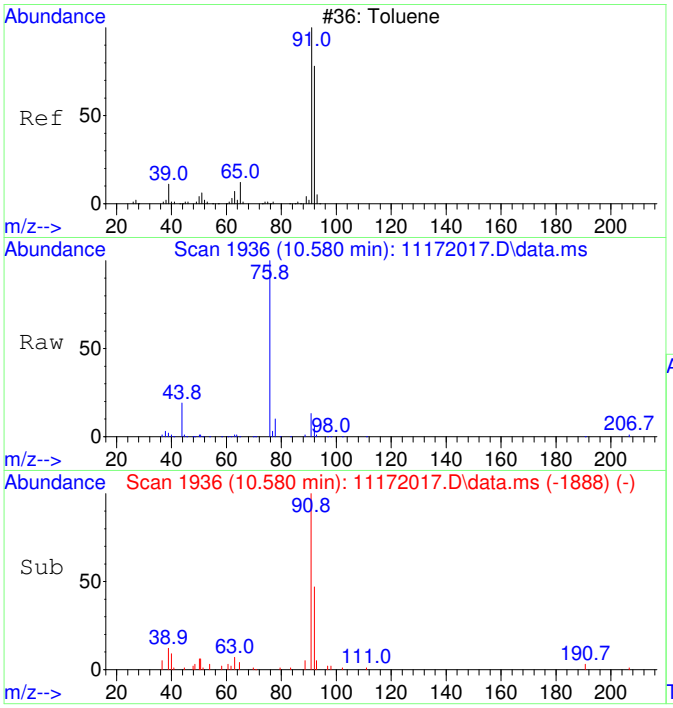


#36
Toluene-d8 SCAN
Concen: 4656.99 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 98 Resp: 260091

Ion	Ratio	Lower	Upper
98	100		
100	63.3	40.0	100.0

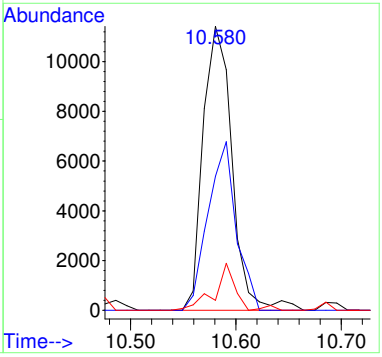


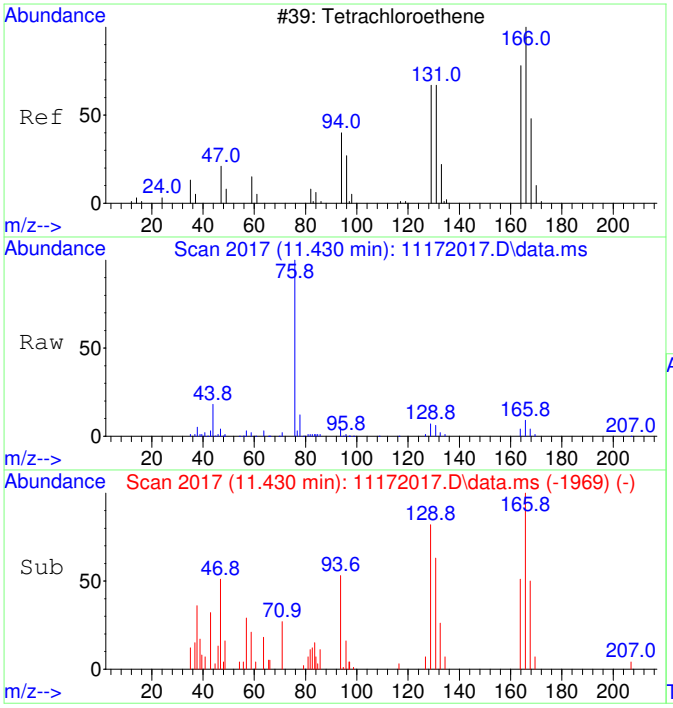


#37
Toluene SCAN
Concen: 305.98 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 21885

Ion	Ratio	Lower	Upper
91	100		
92	57.9	28.3	88.3
65	10.8	0.0	41.0

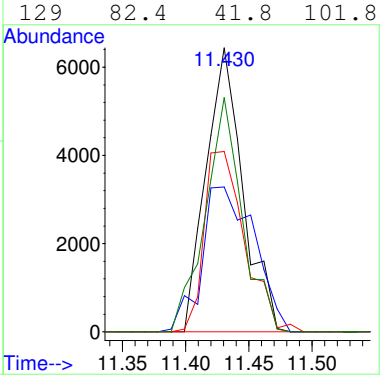


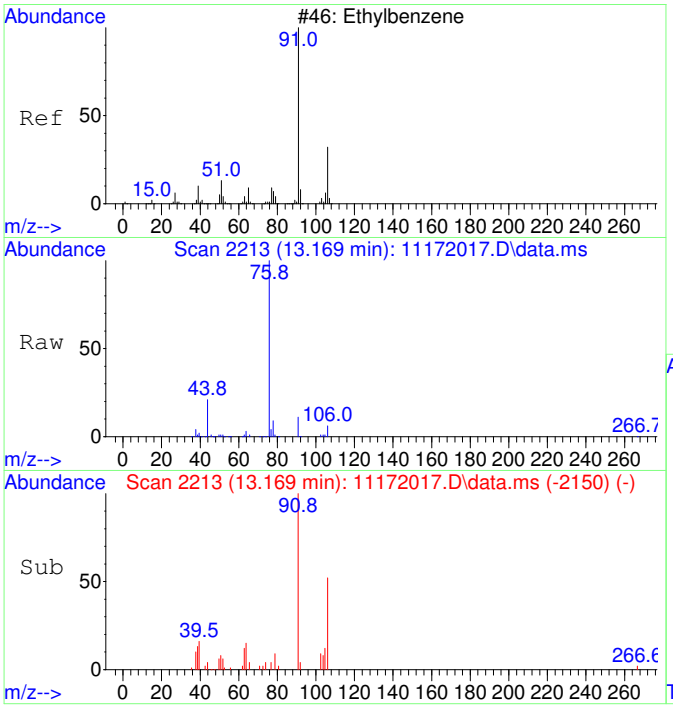


#39
Tetrachloroethene SCAN
Concen: 762.83 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:166 Resp: 13108

Ion	Ratio	Lower	Upper
166	100		
164	72.9	50.9	110.9
131	70.0	38.7	98.7
129	82.4	41.8	101.8

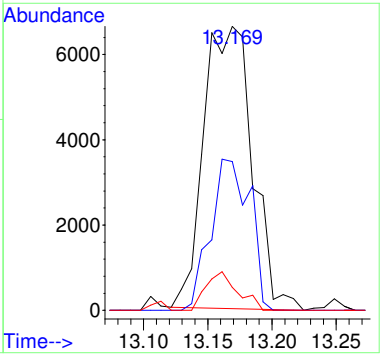


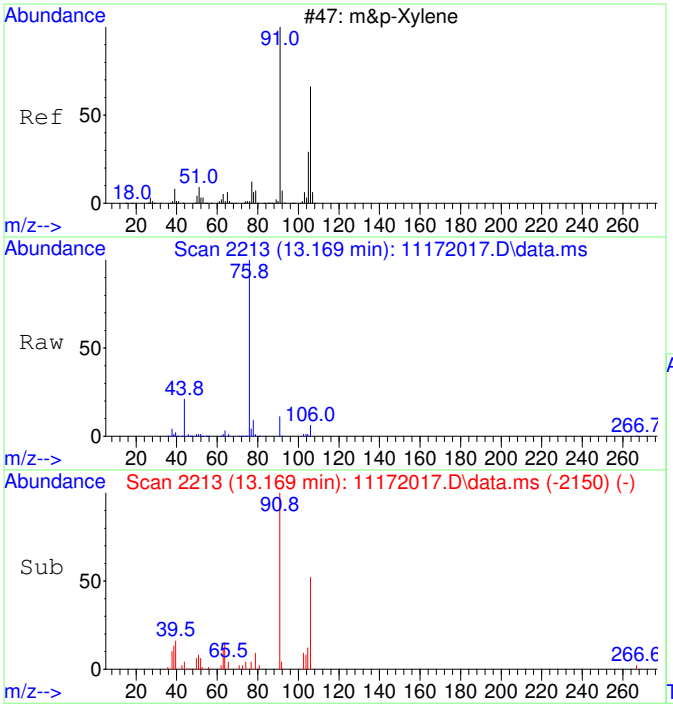


#42
Ethylbenzene SCAN
Concen: 134.32 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 17503

Ion	Ratio	Lower	Upper
91	100		
106	43.1	23.1	83.1
51	8.9	0.0	40.1

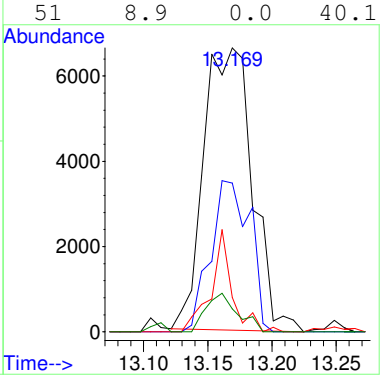


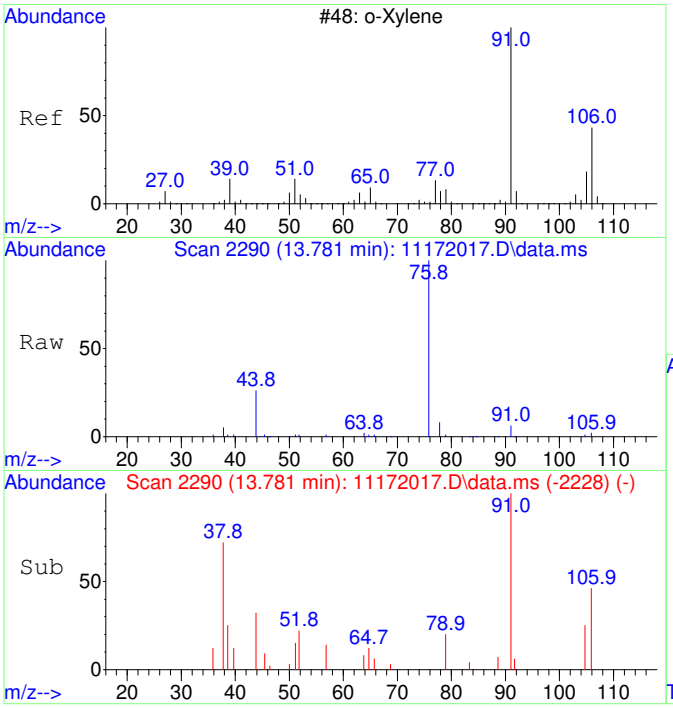


#43
m&p-Xylene SCAN
Concen: 134.32 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 17503

Ion	Ratio	Lower	Upper
91	100		
106	43.1	23.1	83.1
105	15.6	0.0	54.7
51	8.9	0.0	40.1

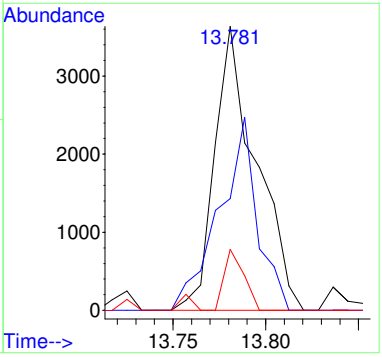


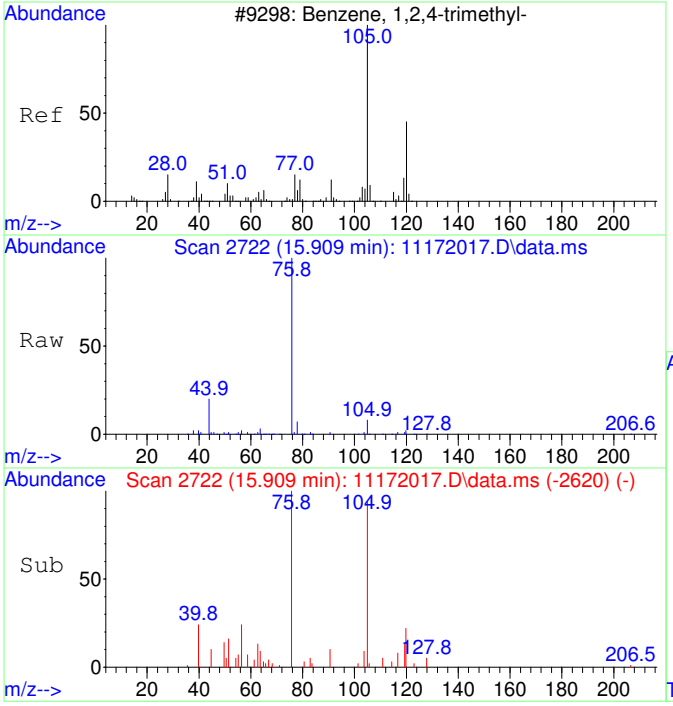


#44
o-Xylene SCAN
Concen: 81.26 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 5668

Ion	Ratio	Lower	Upper
91	100		
106	62.1	18.0	78.0
105	12.0	0.0	56.6

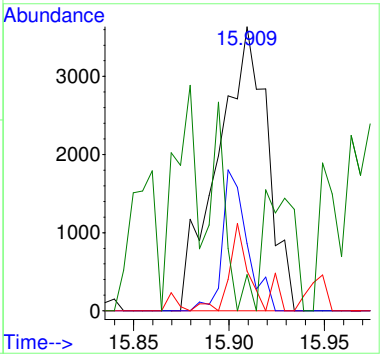




#47
1,2,4-Trimethylbenzene SCAN
Concen: 87.30 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.005 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:105 Resp: 6566

Ion	Ratio	Lower	Upper
105	100		
120	24.6	16.9	76.9
119	11.2	0.0	41.9
77	27.2	0.0	42.3



Quantitation Report (QT Reviewed)

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M.I. Performed By:
TD at 8:56 am, Nov 23, 2020

M.I. Approved By:
ZR at 3:39 pm, Nov 23, 2020

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172017.D
Acq On : 17 Nov 2020 14:13
InstName : AG5975C
Operator : TD
Sample : 2011017-06
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 18 06:15:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

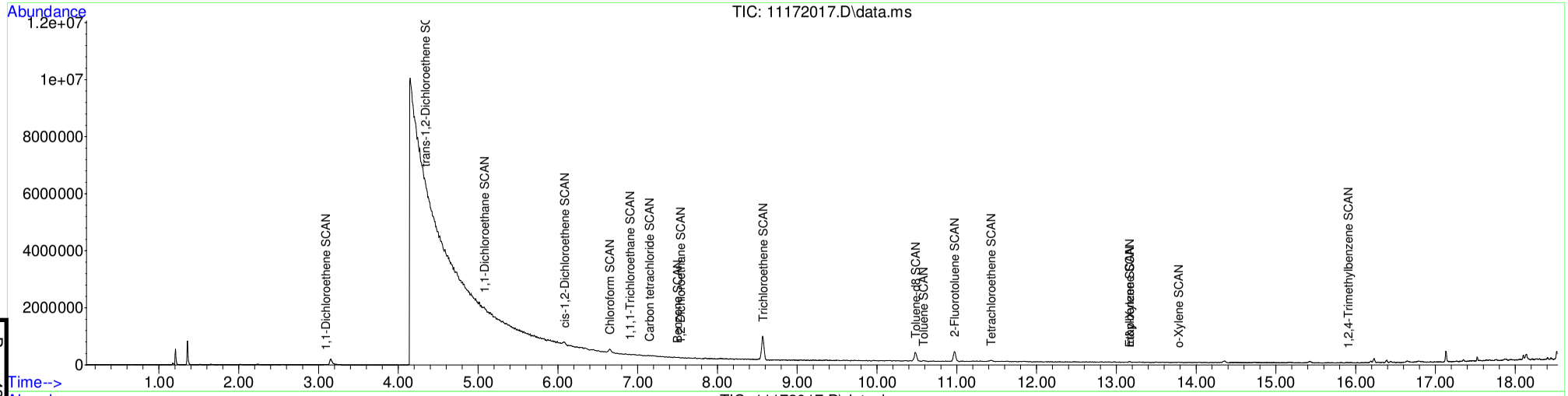
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	585831	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	502864	4384.83	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.70%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	7383m	315.60	ug/L	
3] trans-1,2-Dichloroethene	4.349	61	9451	349.68	ug/L	94
4] 1,1-Dichloroethane	5.072	63	9510	282.66	ug/L	93
5] cis-1,2-Dichloroethene	6.081	61	169737	4779.44	ug/L	99
6] Chloroform	6.652	83	206852	5690.58	ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	6591	166.96	ug/L	99
8] Carbon tetrachloride	7.175	117	4330	116.54	ug/L	99
9] Benzene	7.503	78	19179	192.68	ug/L	64
10] 1,2-Dichloroethane	7.540	62	1271	35.77	ug/L #	1
11] Trichloroethene	8.569	130	600128	20024.98	ug/L	94
13] Toluene	10.582	91	39812	272.29	ug/L	98
14] 1,1,2-Trichloroethane	11.159	97	702	22.03	ug/L #	15
15] Tetrachloroethene	11.432	166	30427	719.10	ug/L	99
18] Ethylbenzene	12.972	91	13128	73.77	ug/L	94
19] m&p-Xylene	13.162	91	28653	206.00	ug/L	95
20] o-Xylene	13.782	91	11381	76.59	ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	11531	70.19	ug/L	89
25) 2-Fluorotoluene SCAN	10.969	109	280795	4916.94	ug/L	98
26) 1,1-Dichloroethene SCAN	3.085	61	2595	213.97	ug/L #	42
27) trans-1,2-Dichloroethe...	4.335	61	2092	139.40	ug/L	72
28) 1,1-Dichloroethane SCAN	5.078	63	2553	146.99	ug/L	92
29) cis-1,2-Dichloroethene...	6.086	61	85081	4572.15	ug/L #	79
30) Chloroform SCAN	6.650	83	101963	5051.79	ug/L	91
31) 1,1,1-Trichloroethane ...	6.906	97	4429	240.80	ug/L	79
32) Carbon tetrachloride SCAN	7.149	117	2265	118.06	ug/L #	22
33) Benzene SCAN	7.502	78	17201	339.66	ug/L	96
34) 1,2-Dichloroethane SCAN	7.538	62	516	27.59	ug/L #	1
35) Trichloroethene SCAN	8.568	130	280729	20171.81	ug/L	88
36) Toluene-d8 SCAN	10.486	98	260091	4656.99	ug/L	92
37) Toluene SCAN	10.580	91	21885	305.98	ug/L	99
39) Tetrachloroethene SCAN	11.430	166	13108	762.83	ug/L	92
42) Ethylbenzene SCAN	13.169	91	17503	134.32	ug/L	88
43) m&p-Xylene SCAN	13.169	91	17503	134.32	ug/L	86
44) o-Xylene SCAN	13.781	91	5668	81.26	ug/L	76
47) 1,2,4-Trimethylbenzene...	15.909	105	6566	87.30	ug/L	71

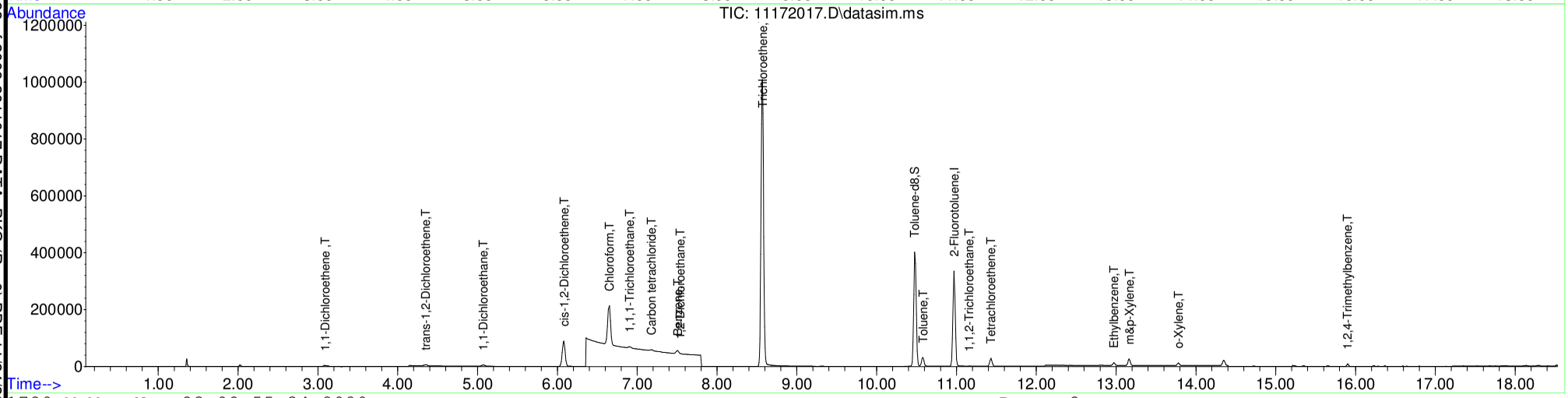
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172017.D
Acq On : 17 Nov 2020 14:13
InstName : AG5975C
Operator : TD
Sample : 2011017-06
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 18 06:15:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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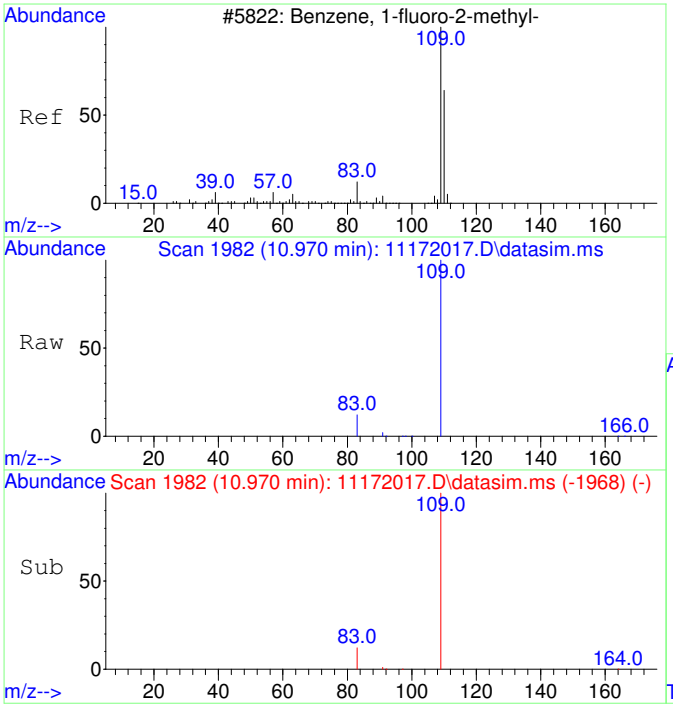
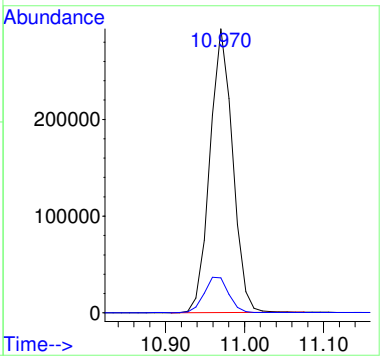
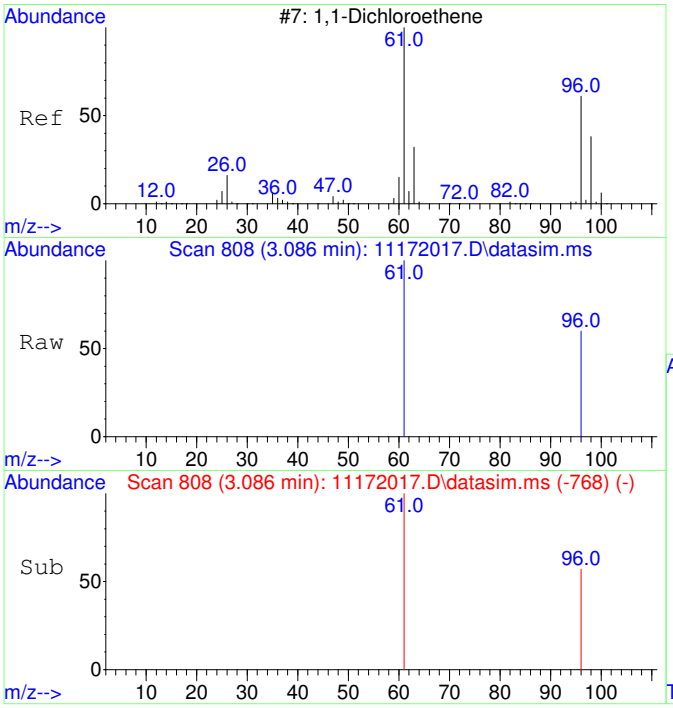


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:109 Resp: 585831

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

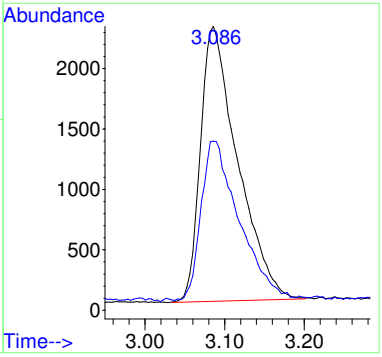


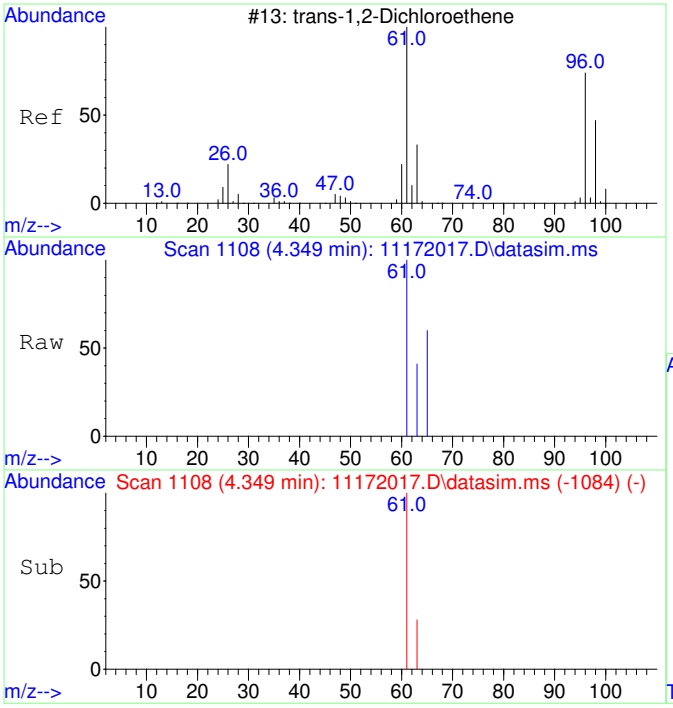


#2
1,1-Dichloroethene
Concen: 315.60 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 61 Resp: 7383

Ion	Ratio	Lower	Upper
61	100		
96	64.3	37.2	97.2

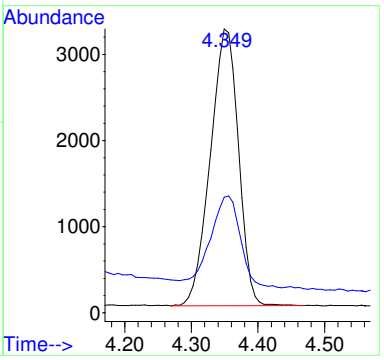


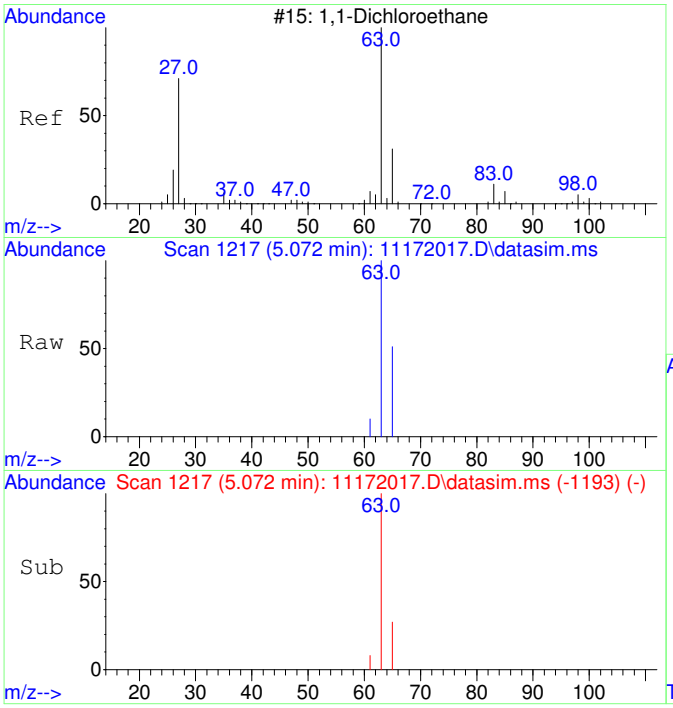


#3
trans-1,2-Dichloroethene
Concen: 349.68 ug/L
RT: 4.349 min Scan# 1108
Delta R.T. 0.007 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 61 Resp: 9451

Ion	Ratio	Lower	Upper
61	100		
63	35.9	2.4	62.4

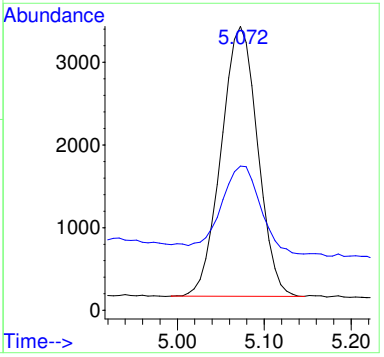


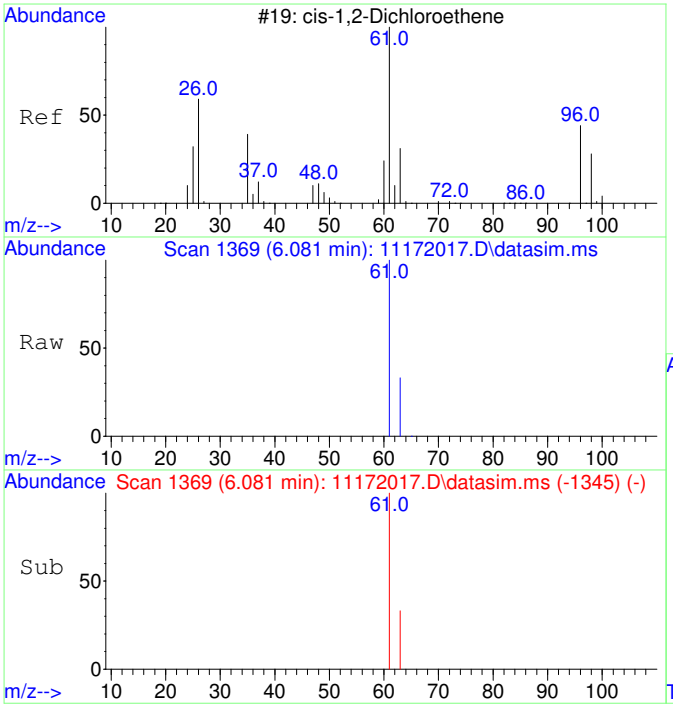


#4
1,1-Dichloroethane
Concen: 282.66 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 63 Resp: 9510

Ion	Ratio	Lower	Upper
63	100		
65	35.7	1.8	61.8

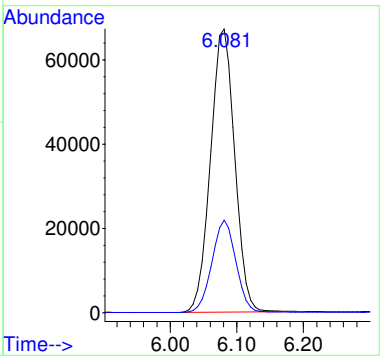


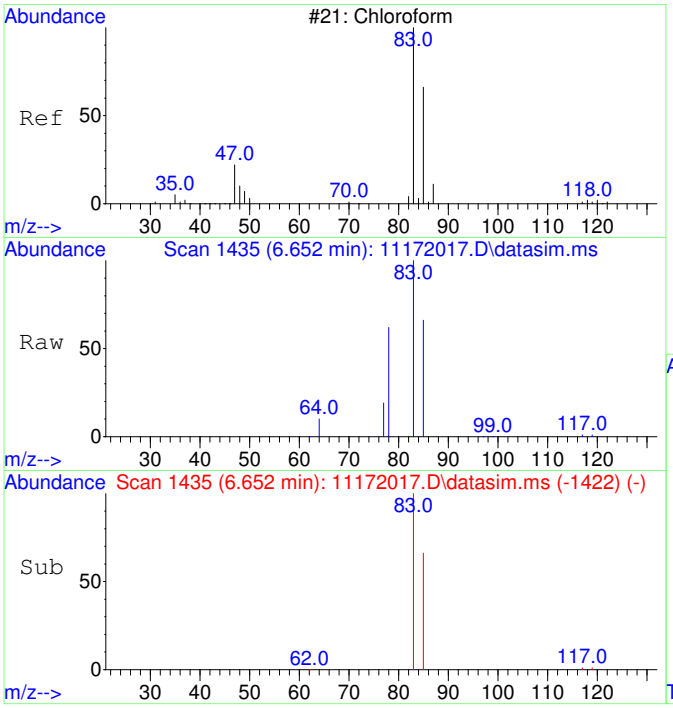


#5
cis-1,2-Dichloroethene
Concen: 4779.44 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 61 Resp: 169737

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

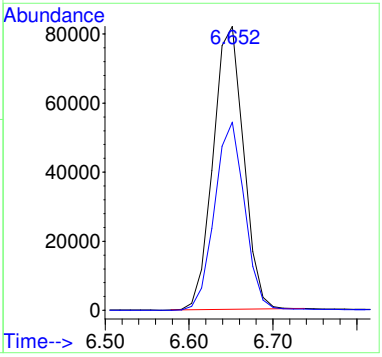


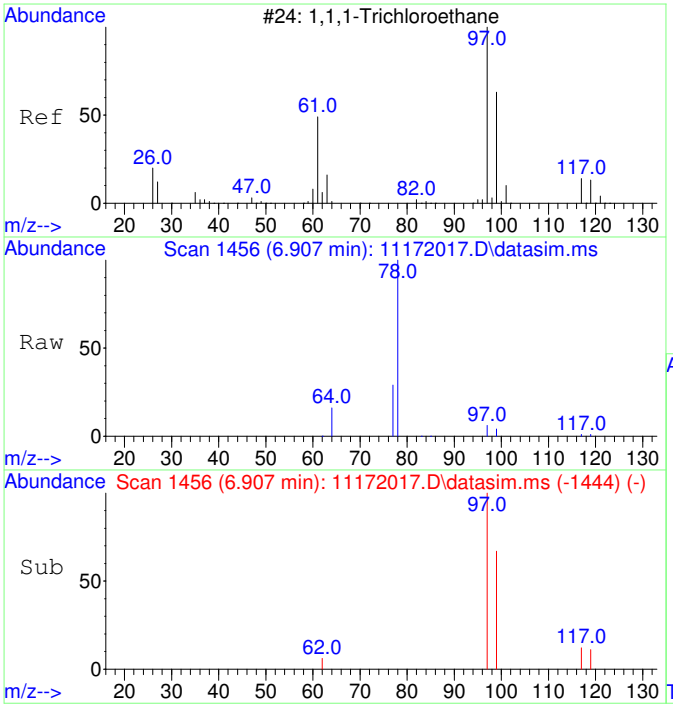


#6
Chloroform
Concen: 5690.58 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 83 Resp: 206852

Ion	Ratio	Lower	Upper
83	100		
85	64.9	35.1	95.1

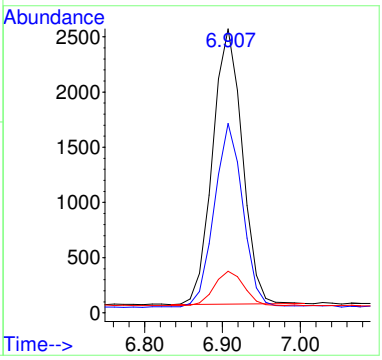


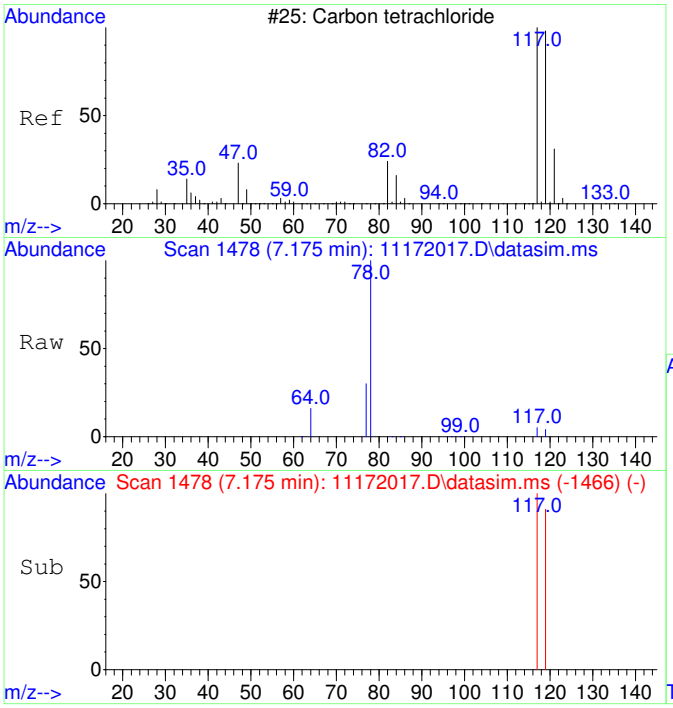


#7
1,1,1-Trichloroethane
Concen: 166.96 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 97 Resp: 6591

Ion	Ratio	Lower	Upper
97	100		
99	63.7	34.6	94.6
117	12.6	0.0	43.2

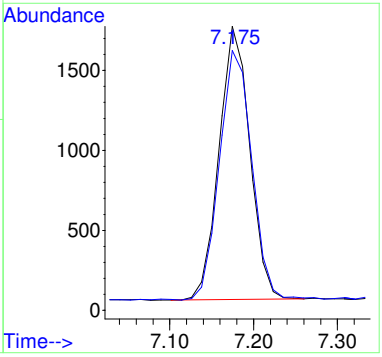


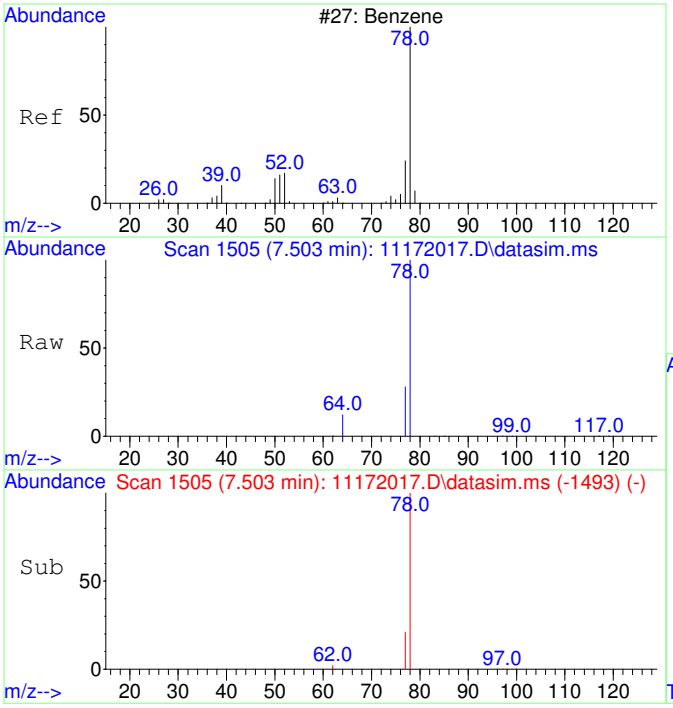


#8
Carbon tetrachloride
Concen: 116.54 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:117 Resp: 4330

Ion	Ratio	Lower	Upper
117	100		
119	95.1	66.4	126.4

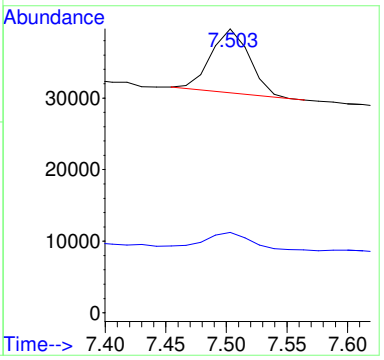


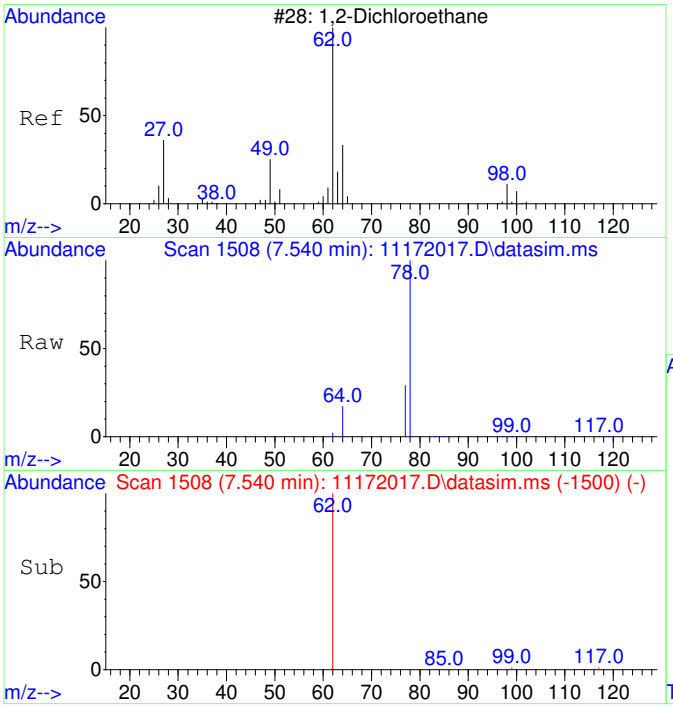


#9
Benzene
Concen: 192.68 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 78 Resp: 19179

Ion	Ratio	Lower	Upper
78	100		
77	40.5	0.0	53.2

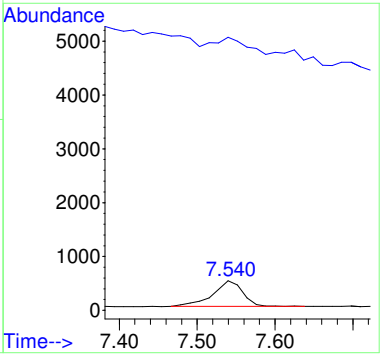


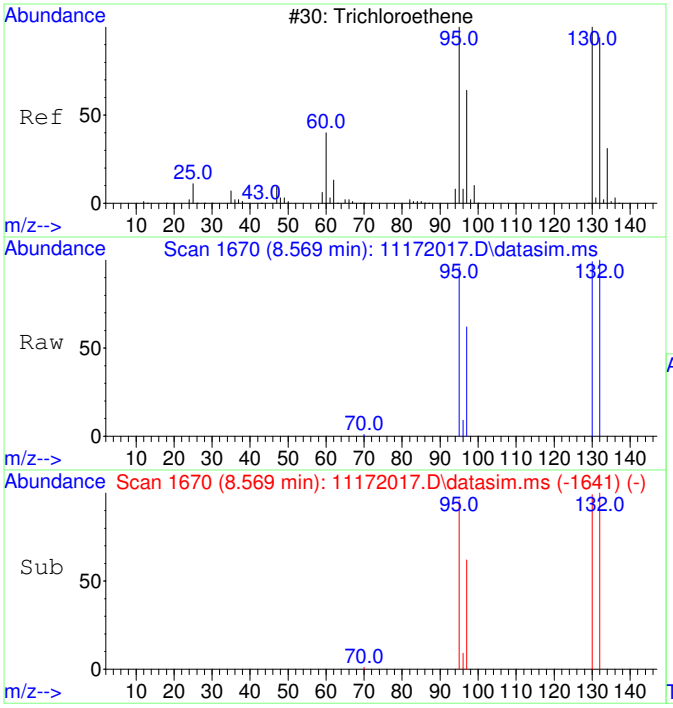


#10
1,2-Dichloroethane
Concen: 35.77 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 62 Resp: 1271

Ion	Ratio	Lower	Upper
62	100		
64	139.3	2.3	62.3#

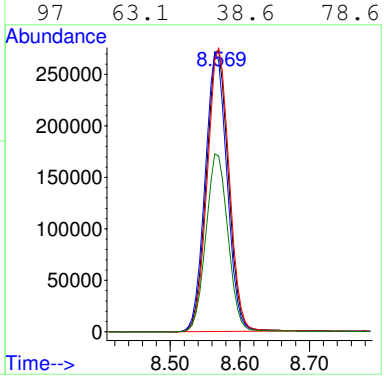


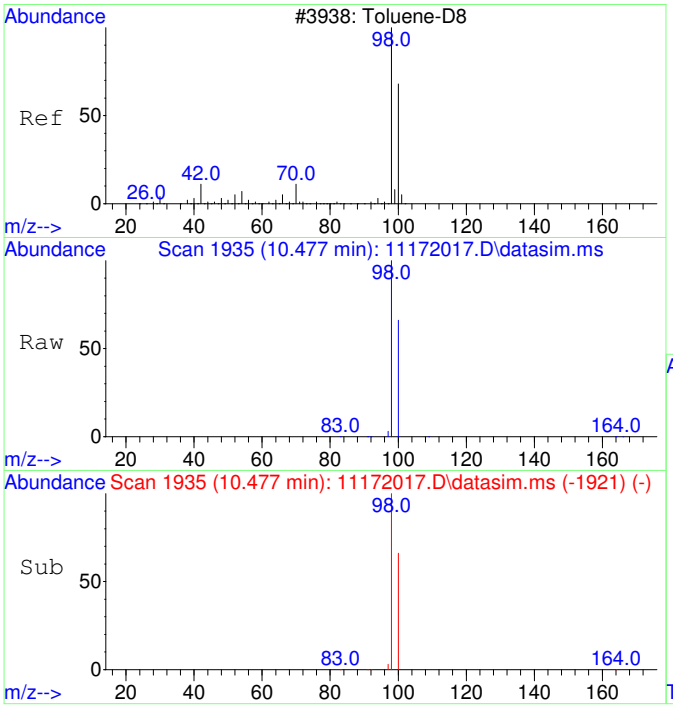


#11
Trichloroethene
Concen: 20024.98 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:130 Resp: 600128

Ion	Ratio	Lower	Upper
130	100		
95	98.6	60.7	120.7
132	99.9	76.0	116.0
97	63.1	38.6	78.6

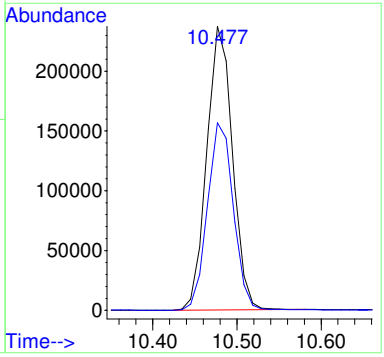


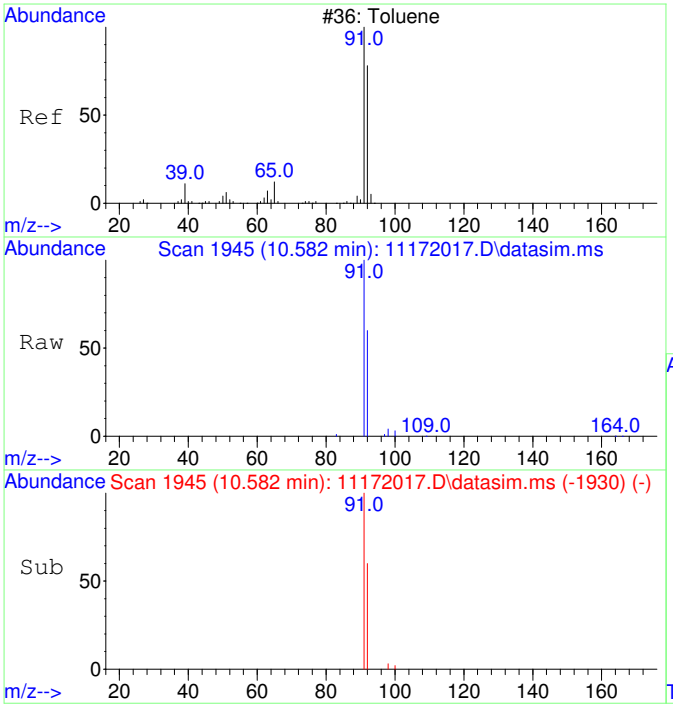


#12
Toluene-d8
Concen: 4384.83 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 98 Resp: 502864

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

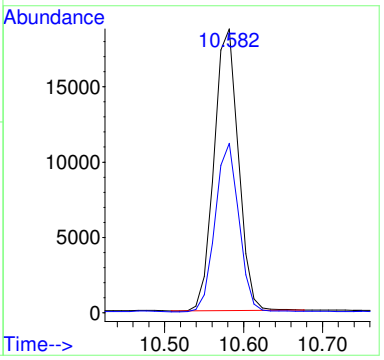


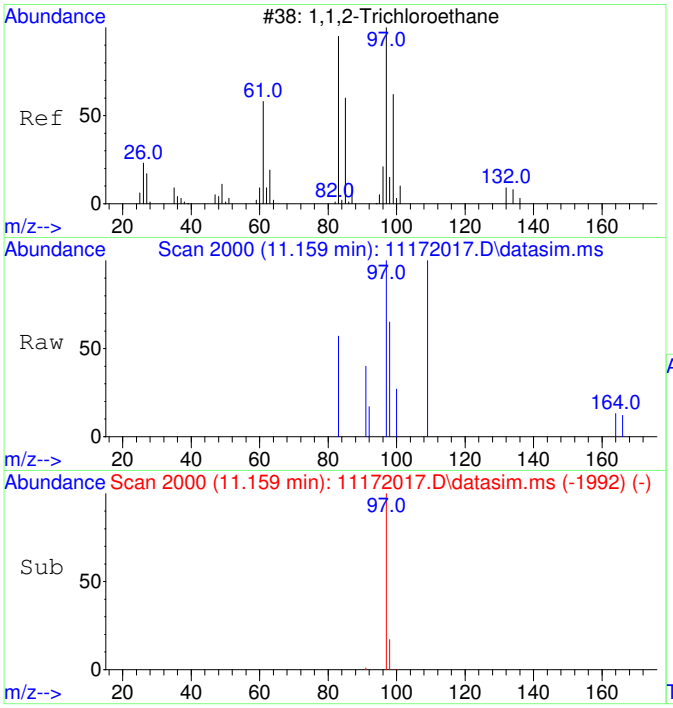


#13
Toluene
Concen: 272.29 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 39812

Ion	Ratio	Lower	Upper
91	100		
92	58.3	29.9	89.9

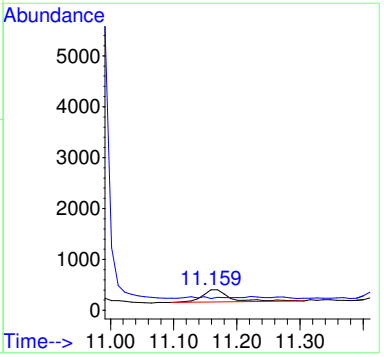


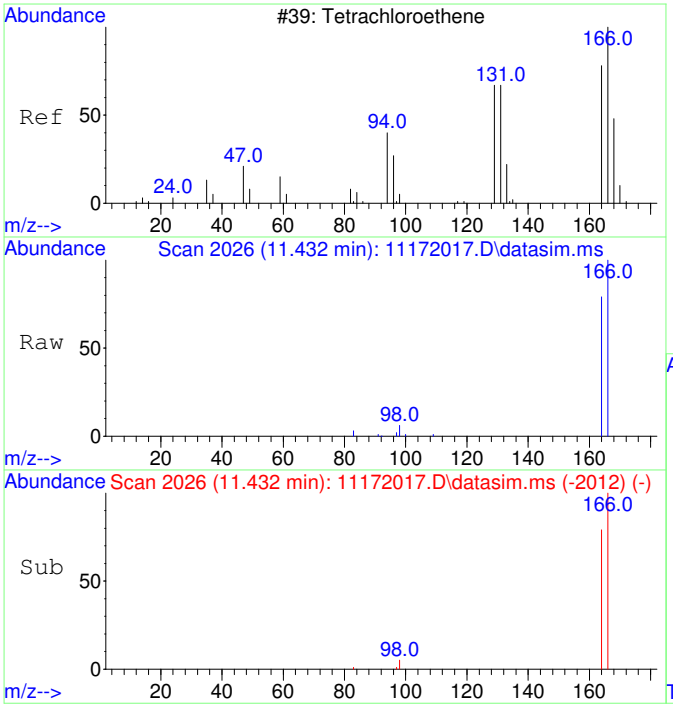


#14
1,1,2-Trichloroethane
Concen: 22.03 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 97 Resp: 702

Ion	Ratio	Lower	Upper
97	100		
83	5.6	51.2	111.2#

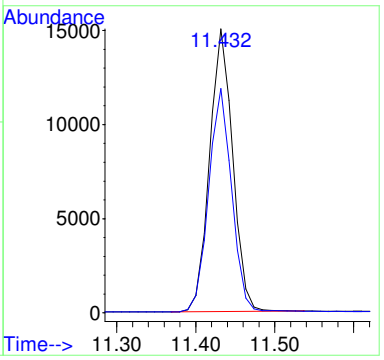


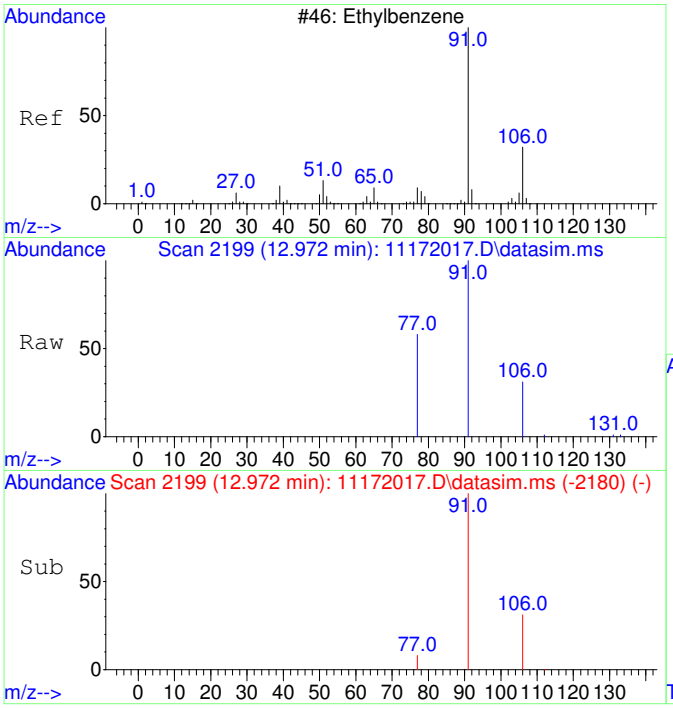


#15
Tetrachloroethene
Concen: 719.10 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:166 Resp: 30427

Ion	Ratio	Lower	Upper
166	100		
164	78.4	47.8	107.8

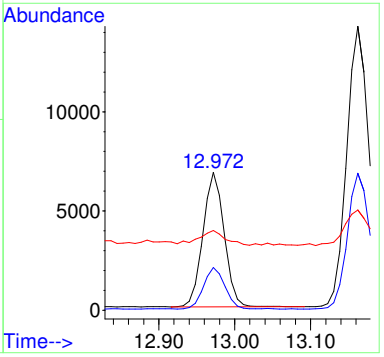


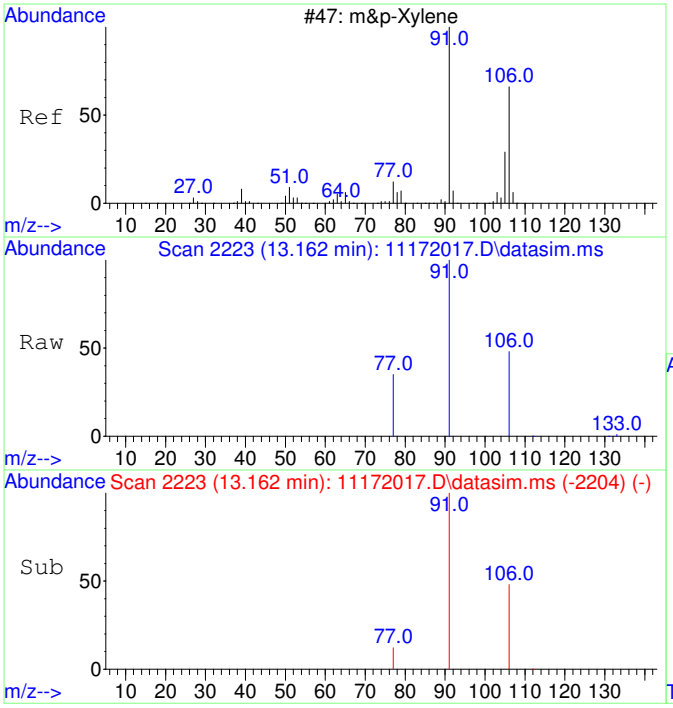


#18
Ethylbenzene
Concen: 73.77 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 13128

Ion	Ratio	Lower	Upper
91	100		
106	30.8	3.0	63.0
77	13.1	0.0	38.2

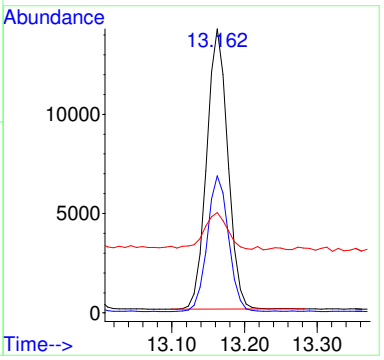


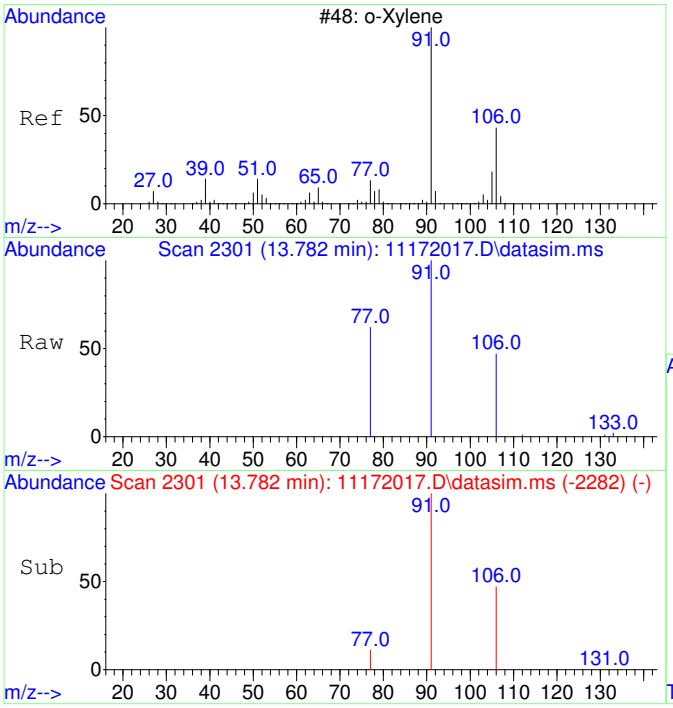


#19
m&p-Xylene
Concen: 206.00 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 28653

Ion	Ratio	Lower	Upper
91	100		
106	48.4	22.2	82.2
77	14.4	0.0	42.4

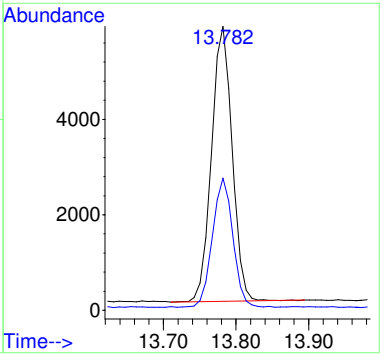


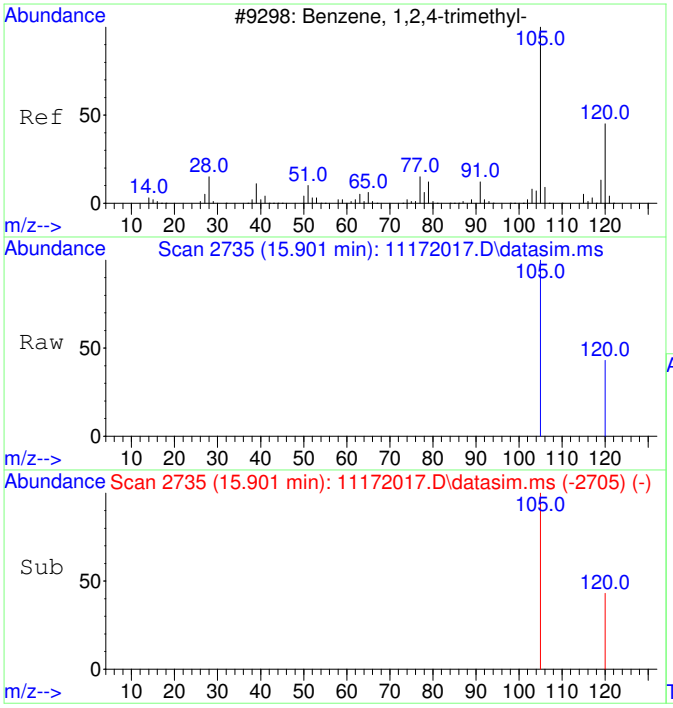


#20
o-Xylene
Concen: 76.59 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 11381

Ion	Ratio	Lower	Upper
91	100		
106	46.8	19.2	79.2

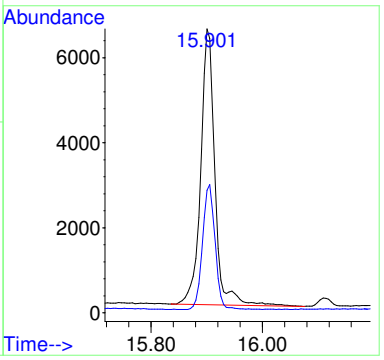


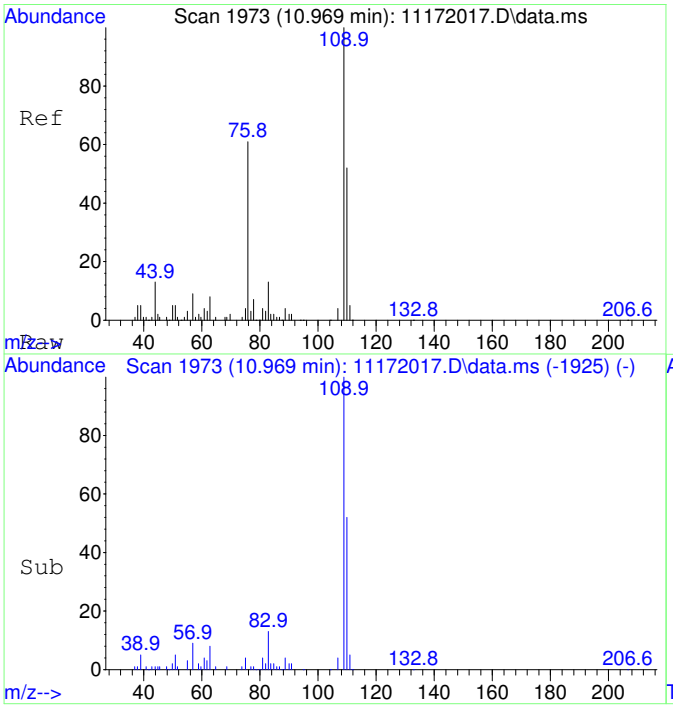


#23
1,2,4-Trimethylbenzene
Concen: 70.19 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:105 Resp: 11531

Ion	Ratio	Lower	Upper
105	100		
120	39.9	17.2	77.2

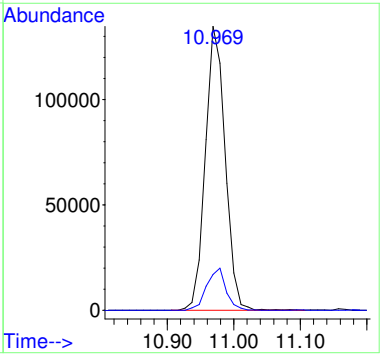


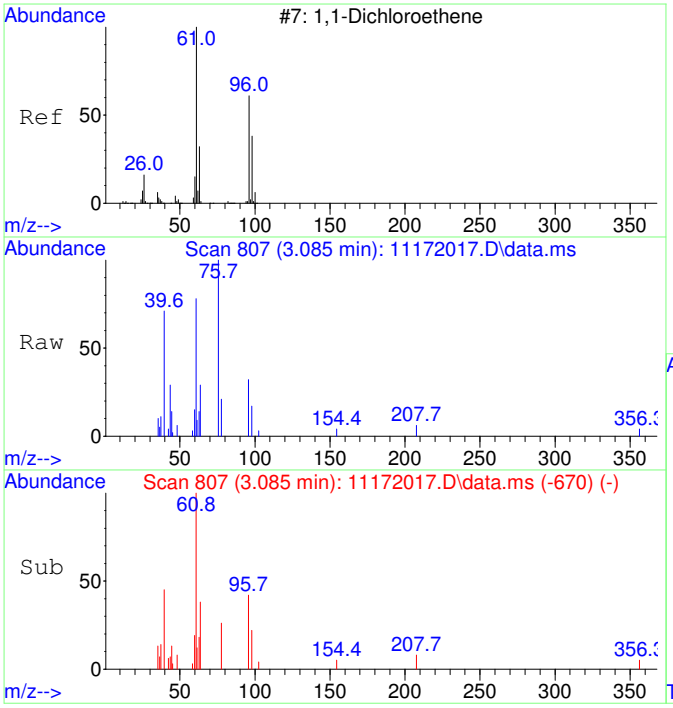


#25
2-Fluorotoluene SCAN
Concen: 4916.94 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:109 Resp: 280795

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	43.8

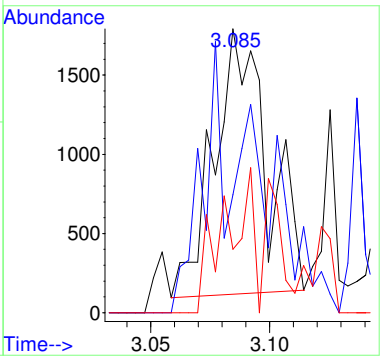


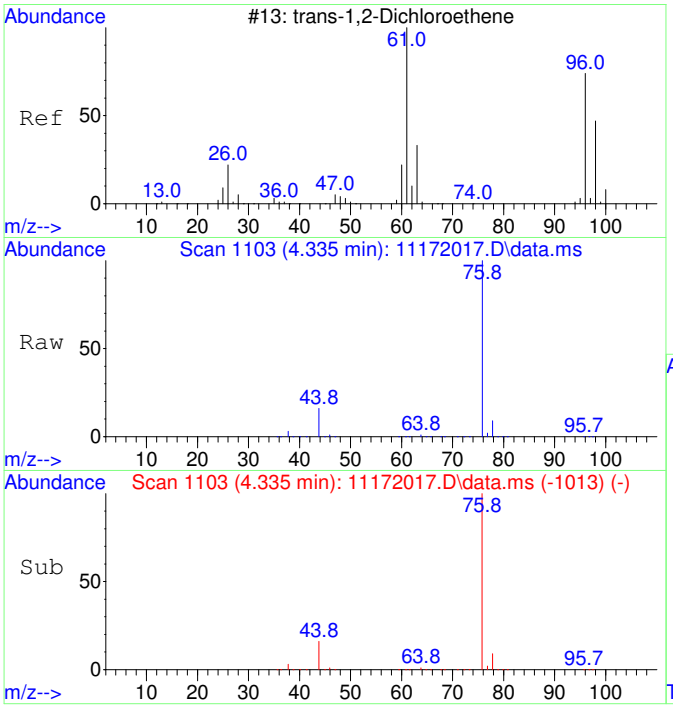


#26
1,1-Dichloroethene SCAN
Concen: 213.97 ug/L
RT: 3.085 min Scan# 807
Delta R.T. 0.007 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 61 Resp: 2595

Ion	Ratio	Lower	Upper
61	100		
96	21.5	33.1	93.1#
98	0.0	11.2	71.2#

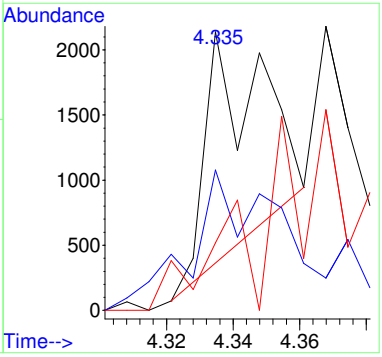


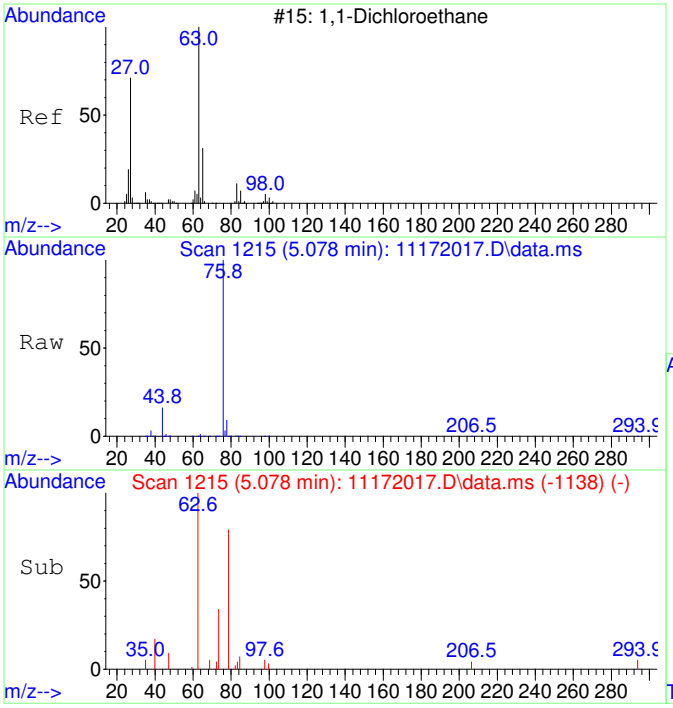


#27
trans-1,2-Dichloroethene SCAN
Concen: 139.40 ug/L
RT: 4.335 min Scan# 1103
Delta R.T. -0.013 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 61 Resp: 2092

Ion	Ratio	Lower	Upper
61	100		
96	107.4	49.0	109.0
98	36.3	20.5	80.5

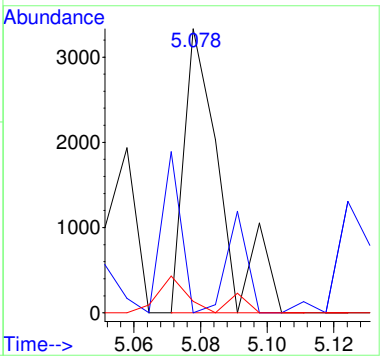


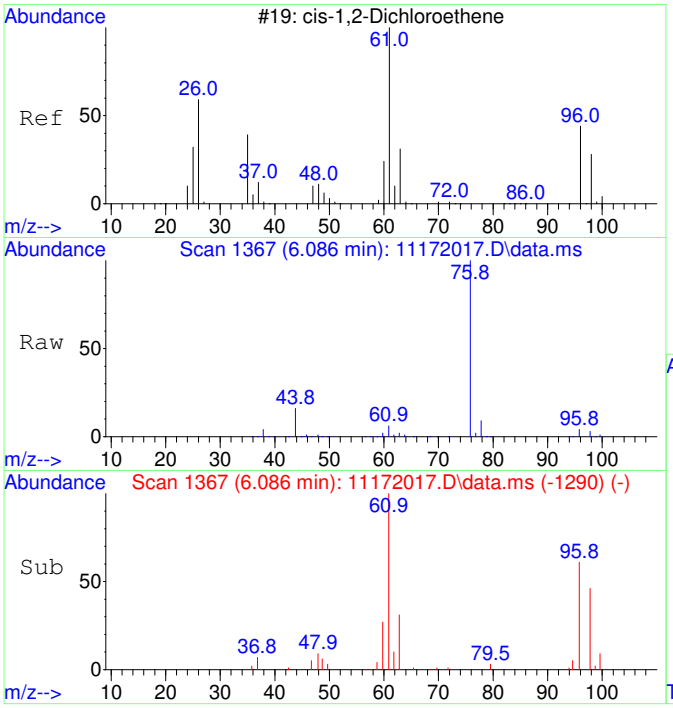


#28
1,1-Dichloroethane SCAN
Concen: 146.99 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 63 Resp: 2553

Ion	Ratio	Lower	Upper
63	100		
65	28.8	1.3	61.3
83	10.3	0.0	45.9

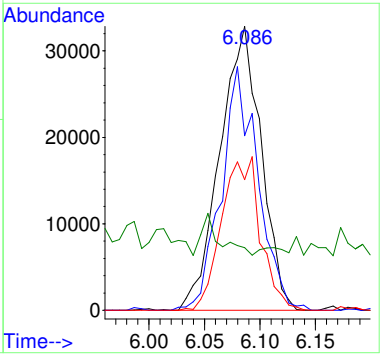


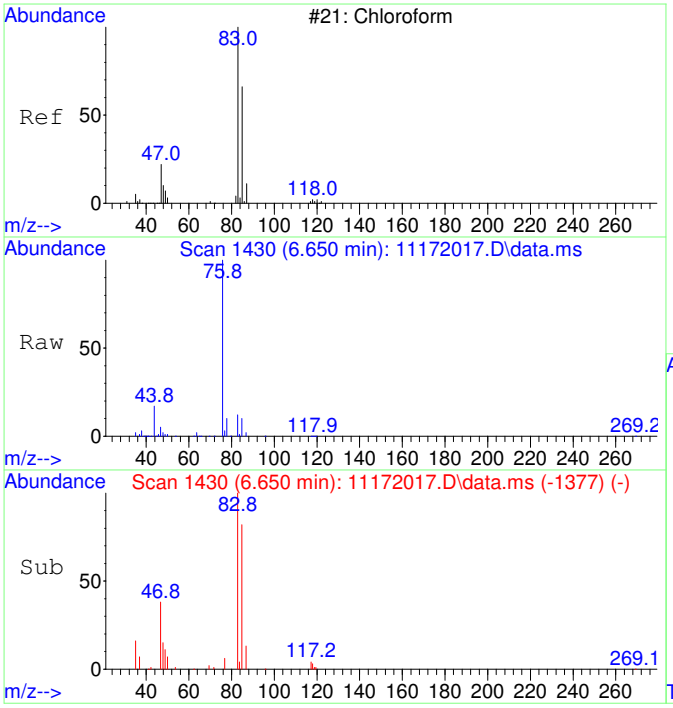


#29
cis-1,2-Dichloroethene SCAN
Concen: 4572.15 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 61 Resp: 85081

Ion	Ratio	Lower	Upper
61	100		
96	76.2	39.9	99.9
98	50.6	13.5	73.5
64	0.0	4.5	64.5#

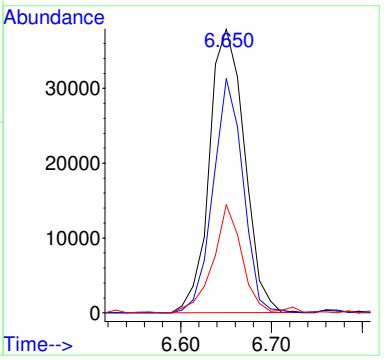


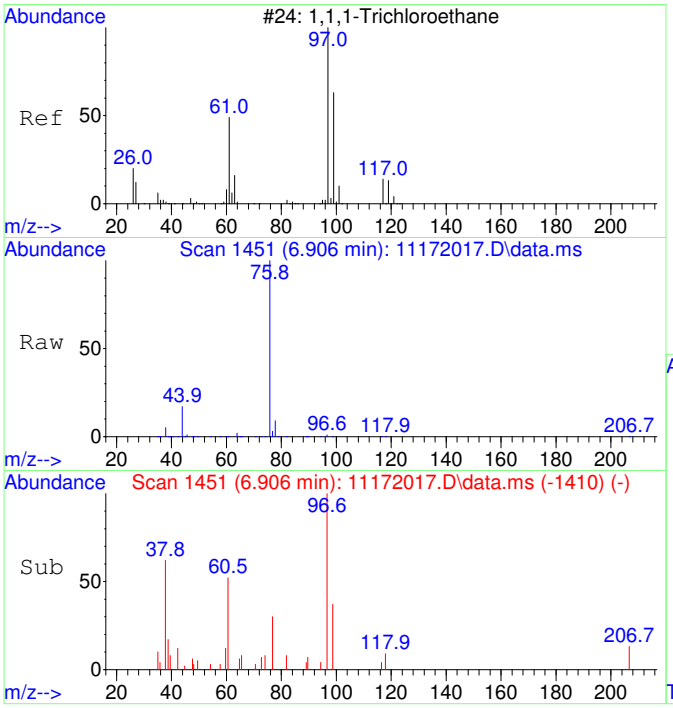


#30
Chloroform SCAN
Concen: 5051.79 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 83 Resp: 101963

Ion	Ratio	Lower	Upper
83	100		
85	70.6	34.6	94.6
47	30.2	0.0	53.4

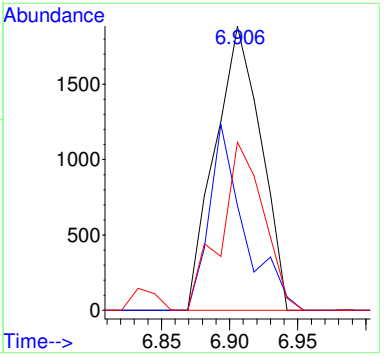


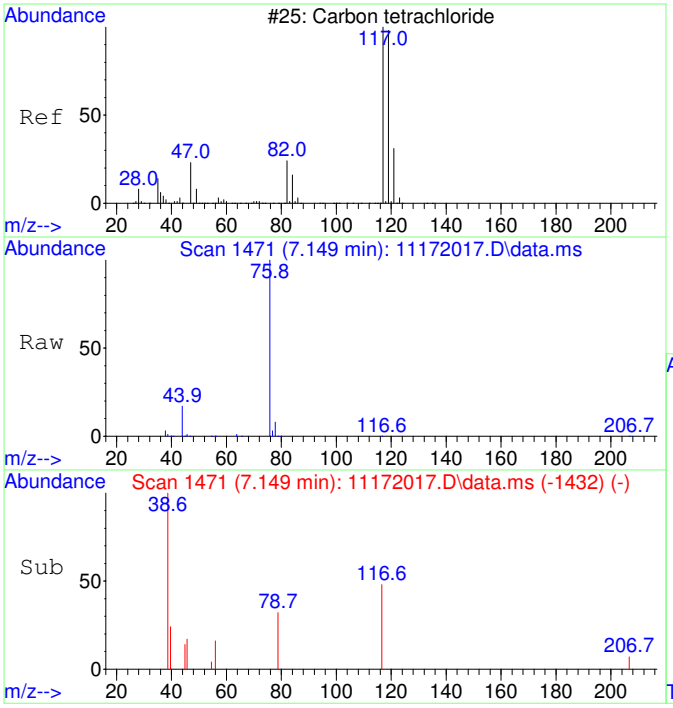


#31
1,1,1-Trichloroethane SCAN
Concen: 240.80 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 97 Resp: 4429

Ion	Ratio	Lower	Upper
97	100		
99	50.1	43.6	103.6
61	55.5	18.0	78.0

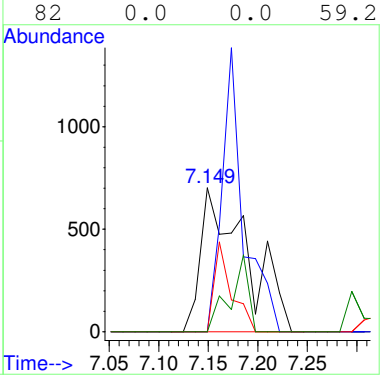


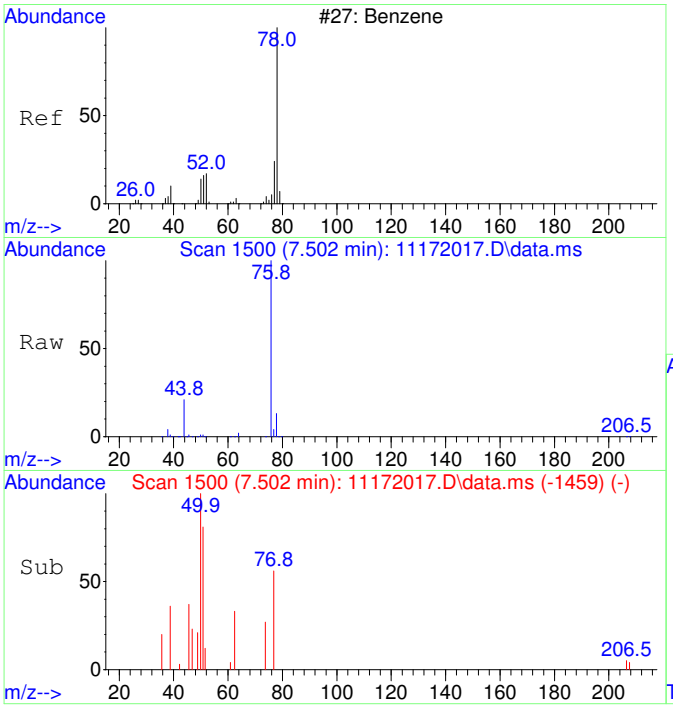


#32
Carbon tetrachloride SCAN
Concen: 118.06 ug/L
RT: 7.149 min Scan# 1471
Delta R.T. -0.024 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:117 Resp: 2265

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	23.5	0.0	58.8
82	0.0	0.0	59.2

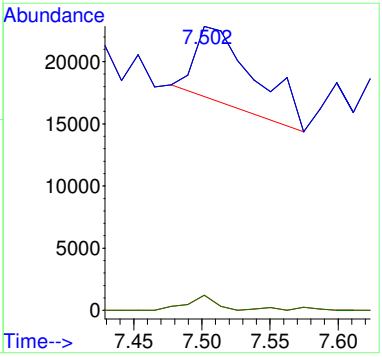


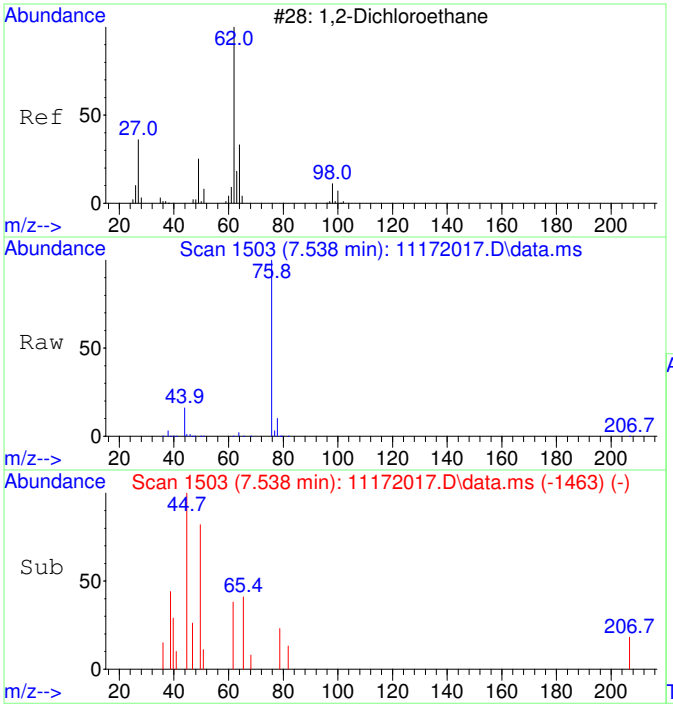


#33
Benzene SCAN
Concen: 339.66 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 78 Resp: 17201

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	9.1	0.0	47.9
51	9.1	0.0	44.1

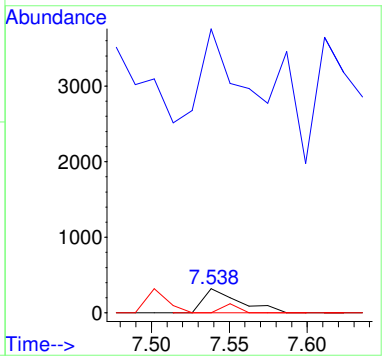


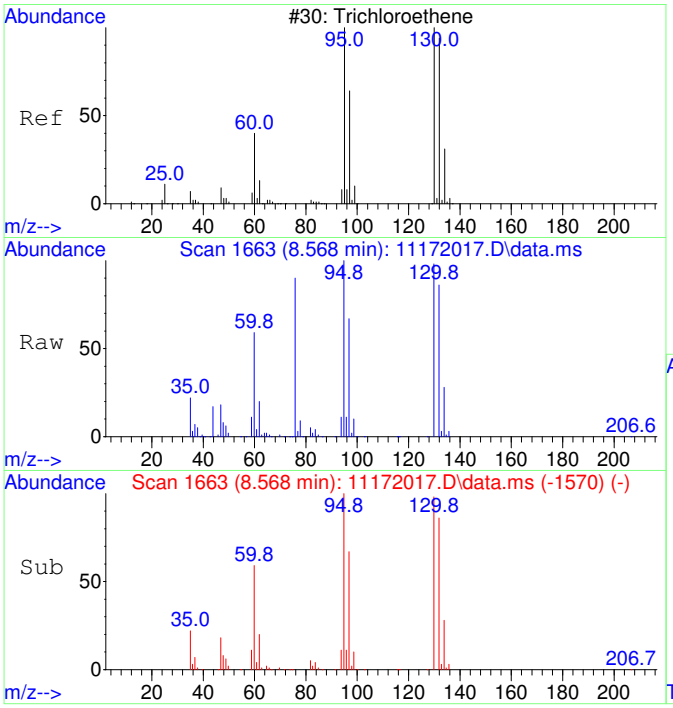


#34
1,2-Dichloroethane SCAN
Concen: 27.59 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 62 Resp: 516

Ion	Ratio	Lower	Upper
62	100		
64	698.3	5.2	65.2#
49	16.9	3.9	63.9

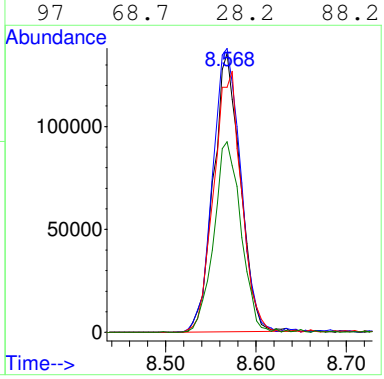


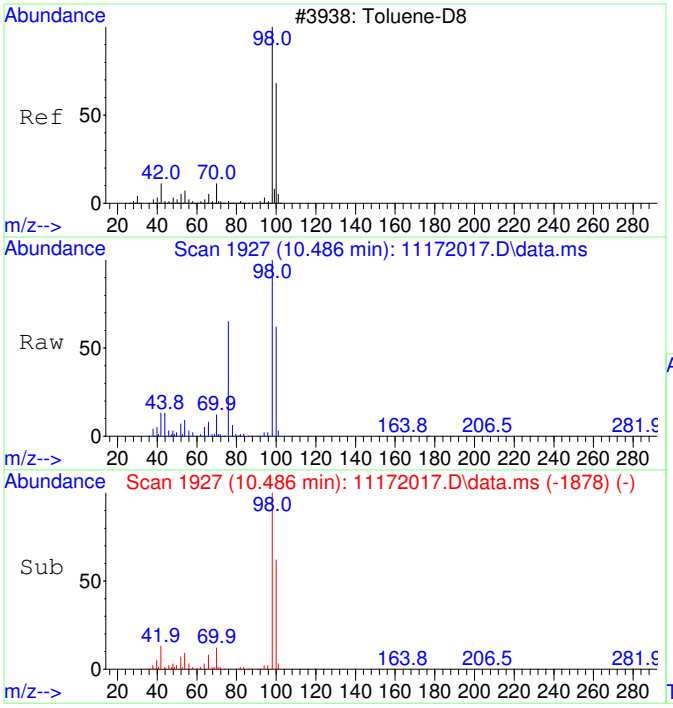


#35
Trichloroethene SCAN
Concen: 20171.81 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:130 Resp: 280729

Ion	Ratio	Lower	Upper
130	100		
95	105.8	60.5	120.5
132	95.9	59.6	119.6
97	68.7	28.2	88.2

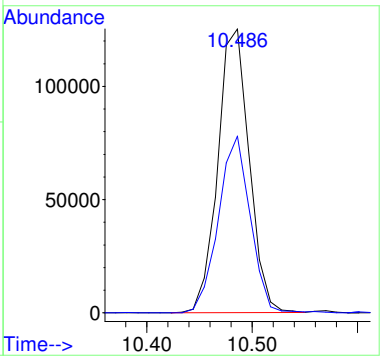


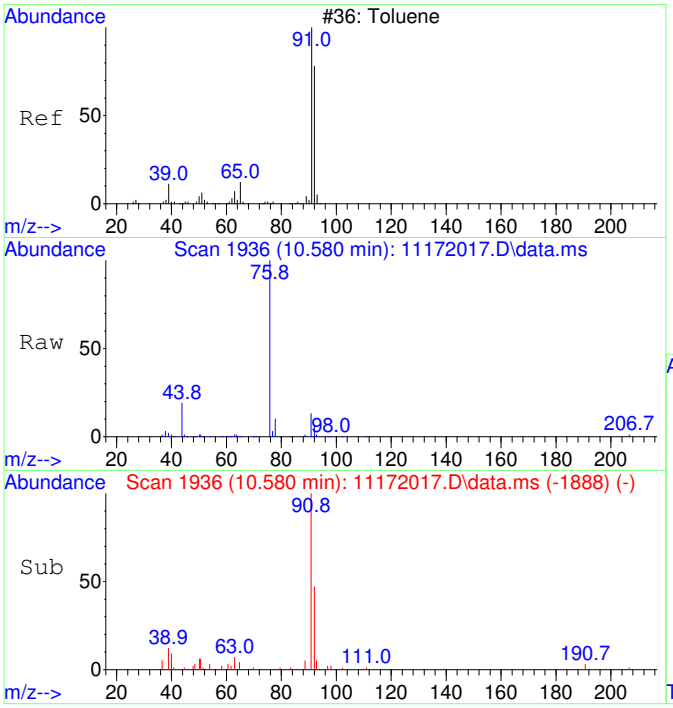


#36
Toluene-d8 SCAN
Concen: 4656.99 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 98 Resp: 260091

Ion	Ratio	Lower	Upper
98	100		
100	63.3	40.0	100.0

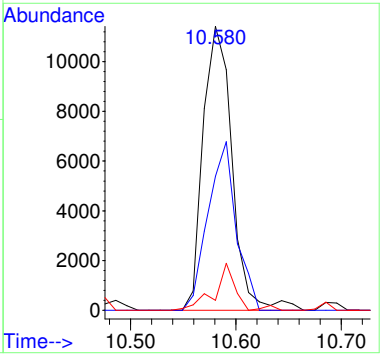


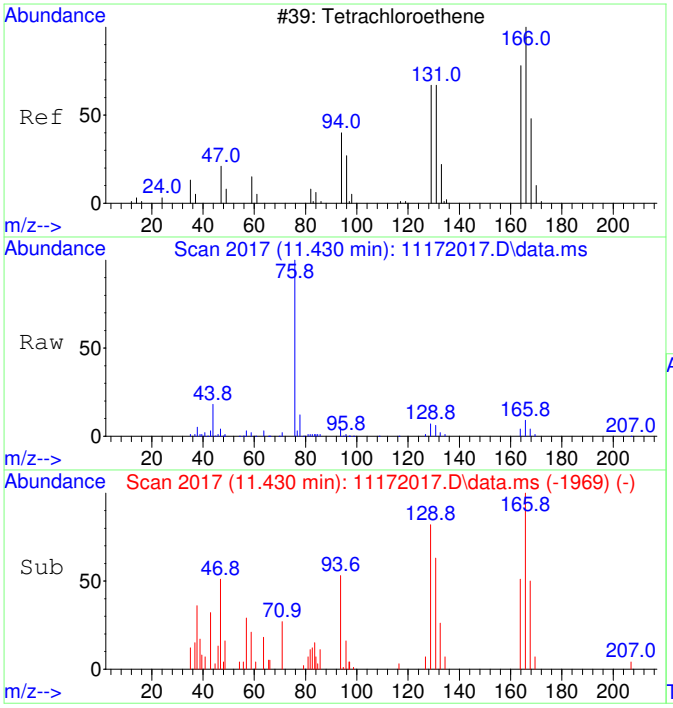


#37
Toluene SCAN
Concen: 305.98 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 21885

Ion	Ratio	Lower	Upper
91	100		
92	57.9	28.3	88.3
65	10.8	0.0	41.0

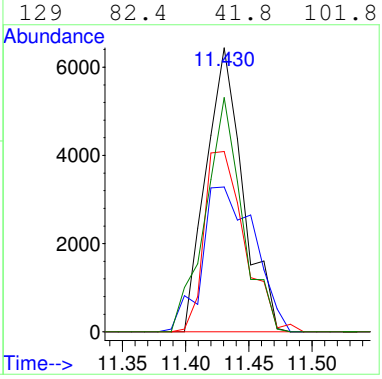


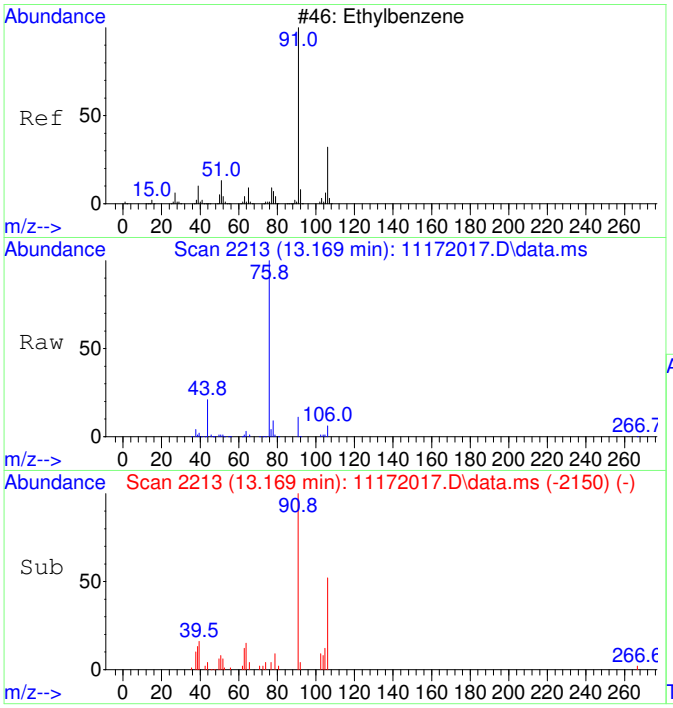


#39
Tetrachloroethene SCAN
Concen: 762.83 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:166 Resp: 13108

Ion	Ratio	Lower	Upper
166	100		
164	72.9	50.9	110.9
131	70.0	38.7	98.7
129	82.4	41.8	101.8

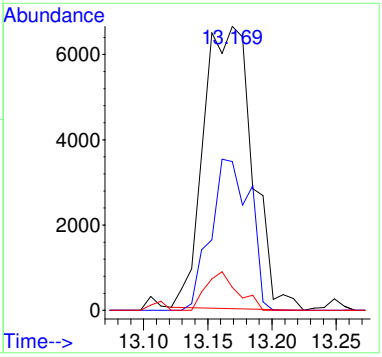


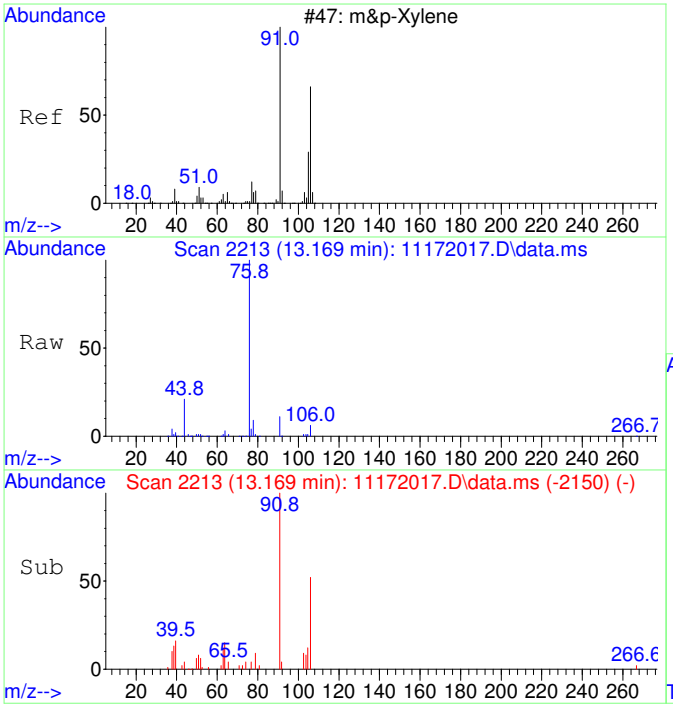


#42
Ethylbenzene SCAN
Concen: 134.32 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 17503

Ion	Ratio	Lower	Upper
91	100		
106	43.1	23.1	83.1
51	8.9	0.0	40.1

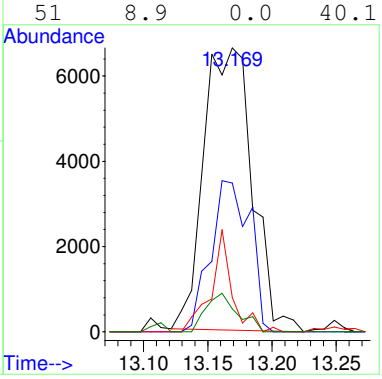


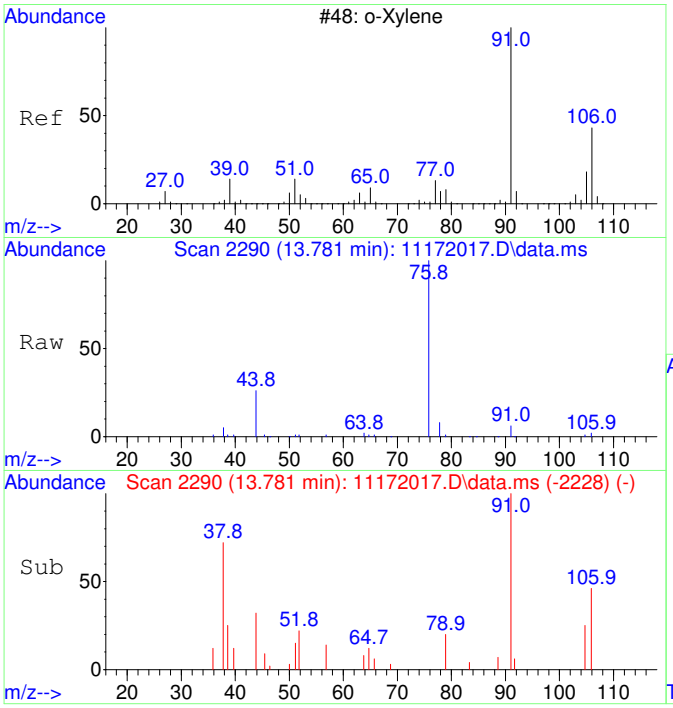


#43
m&p-Xylene SCAN
Concen: 134.32 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 17503

Ion	Ratio	Lower	Upper
91	100		
106	43.1	23.1	83.1
105	15.6	0.0	54.7
51	8.9	0.0	40.1

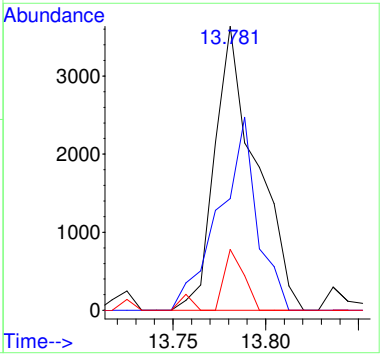


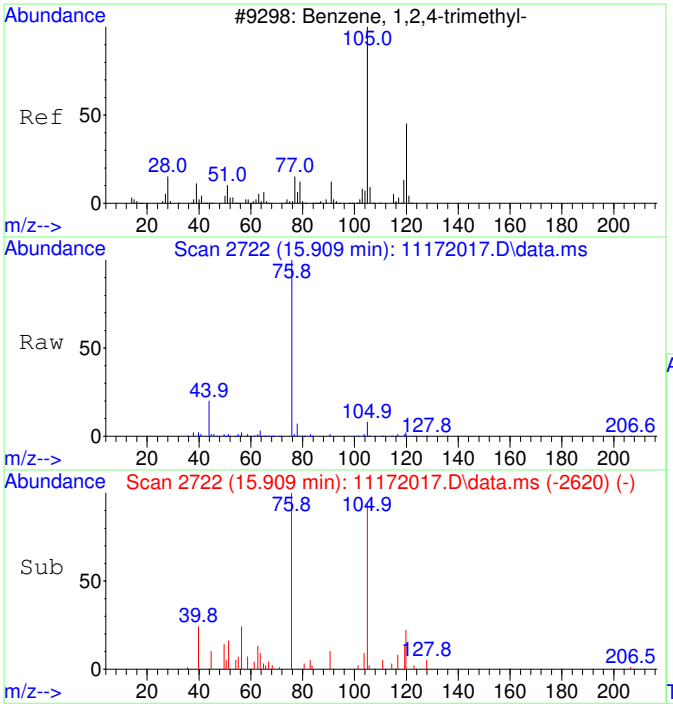


#44
o-Xylene SCAN
Concen: 81.26 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion: 91 Resp: 5668

Ion	Ratio	Lower	Upper
91	100		
106	62.1	18.0	78.0
105	12.0	0.0	56.6

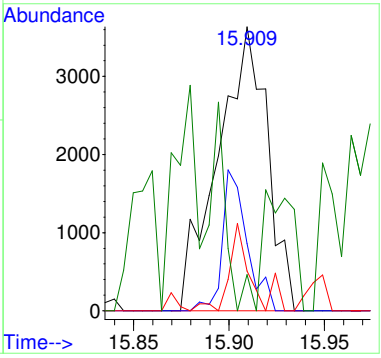




#47
1,2,4-Trimethylbenzene SCAN
Concen: 87.30 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.005 min
Lab File: 11172017.D
Acq: 17 Nov 2020 14:13

Tgt Ion:105 Resp: 6566

Ion	Ratio	Lower	Upper
105	100		
120	24.6	16.9	76.9
119	11.2	0.0	41.9
77	27.2	0.0	42.3



2011017-07

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172018.D
Acq On : 17 Nov 2020 14:36
InstName : AG5975C
Operator : TD
Sample : 2011017-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 18 06:16:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

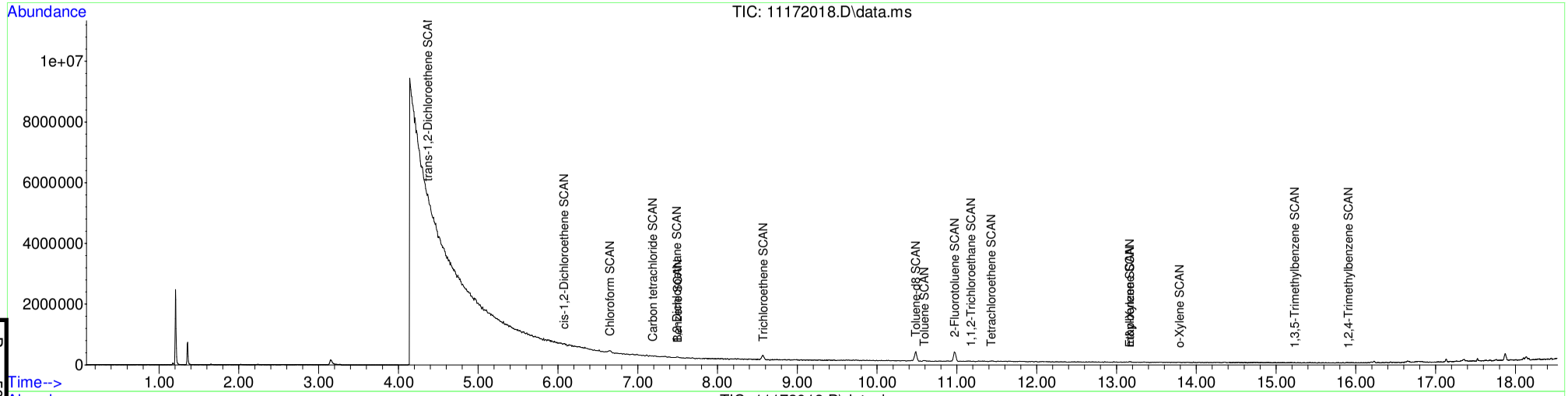
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	549431	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	472582	4393.78	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.88%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	1779	81.09	ug/L	86
3] trans-1,2-Dichloroethene	4.342	61	1704	67.22	ug/L	54
4] 1,1-Dichloroethane	5.059	63	1649	52.26	ug/L	52
5] cis-1,2-Dichloroethene	6.074	61	27678	830.99	ug/L	100
6] Chloroform	6.639	83	115770	3395.88	ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	1155	31.20	ug/L	97
8] Carbon tetrachloride	7.174	117	3495	100.30	ug/L	99
9] Benzene	7.503	78	17041	182.55	ug/L	73
10] 1,2-Dichloroethane	7.539	62	789	23.68	ug/L #	1
11] Trichloroethene	8.569	130	99406	3536.71	ug/L	94
13] Toluene	10.582	91	34169	249.18	ug/L	98
14] 1,1,2-Trichloroethane	11.169	97	637	21.32	ug/L #	9
15] Tetrachloroethene	11.432	166	4921	124.01	ug/L	100
18] Ethylbenzene	12.972	91	11367	68.10	ug/L	96
19] m&p-Xylene	13.162	91	23980	183.82	ug/L	94
20] o-Xylene	13.782	91	9081	65.16	ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	9868	64.04	ug/L	92
25) 2-Fluorotoluene SCAN	10.969	109	251001	4686.41	ug/L	99
27) trans-1,2-Dichloroethe...	4.361	61	606	43.05	ug/L #	32
29) cis-1,2-Dichloroethene...	6.073	61	14922	855.02	ug/L	95
30) Chloroform SCAN	6.650	83	61081	3226.77	ug/L	94
32) Carbon tetrachloride SCAN	7.185	117	1684	93.59	ug/L #	72
33) Benzene SCAN	7.502	78	21382	450.19	ug/L	97
34) 1,2-Dichloroethane SCAN	7.489	62	416	23.72	ug/L #	1
35) Trichloroethene SCAN	8.573	130	44195	3386.02	ug/L	81
36) Toluene-d8 SCAN	10.486	98	234302	4473.17	ug/L	91
37) Toluene SCAN	10.591	91	16553	246.77	ug/L	80
38) 1,1,2-Trichloroethane ...	11.178	97	919	61.04	ug/L #	26
39) Tetrachloroethene SCAN	11.430	166	2496	154.88	ug/L	87
42) Ethylbenzene SCAN	13.169	91	12705	103.96	ug/L	95
43) m&p-Xylene SCAN	13.169	91	12705	103.96	ug/L	95
44) o-Xylene SCAN	13.789	91	4564	69.77	ug/L	81
46) 1,3,5-Trimethylbenzene...	15.229	105	1805	26.18	ug/L	68
47) 1,2,4-Trimethylbenzene...	15.909	105	5958	84.46	ug/L #	59

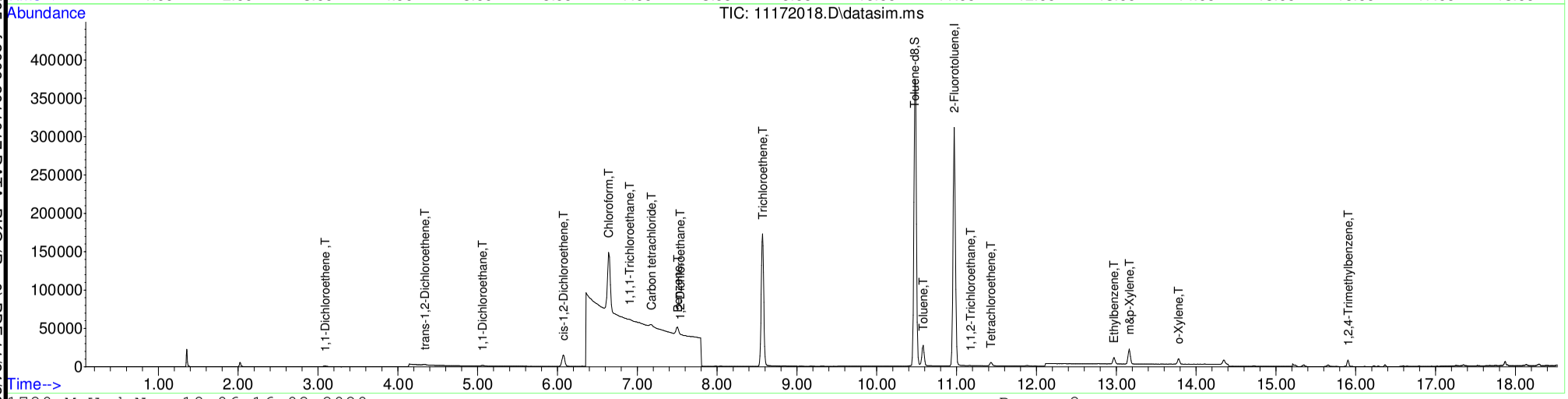
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172018.D
Acq On : 17 Nov 2020 14:36
InstName : AG5975C
Operator : TD
Sample : 2011017-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 18 06:16:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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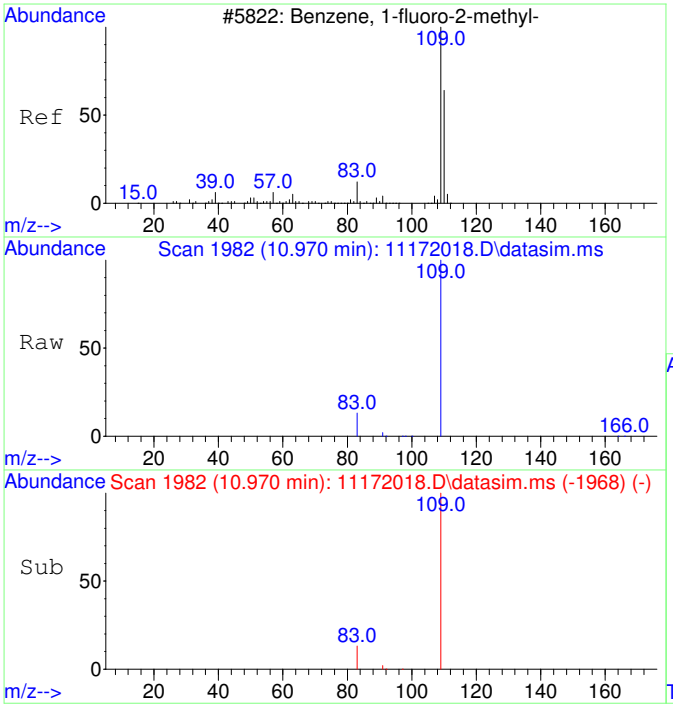
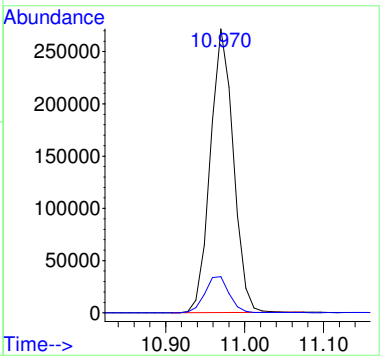
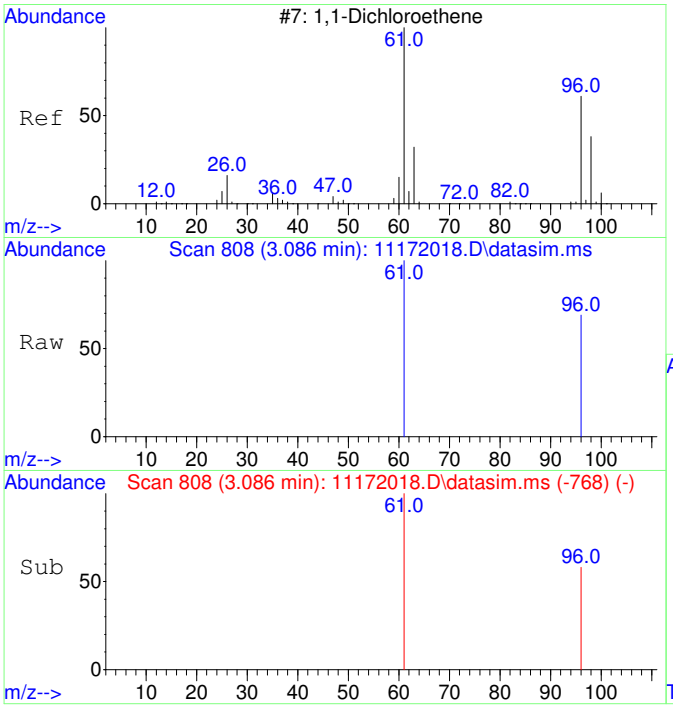


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:109 Resp: 549431

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

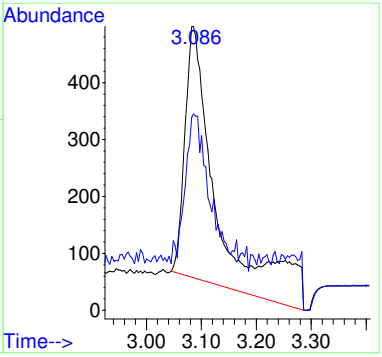




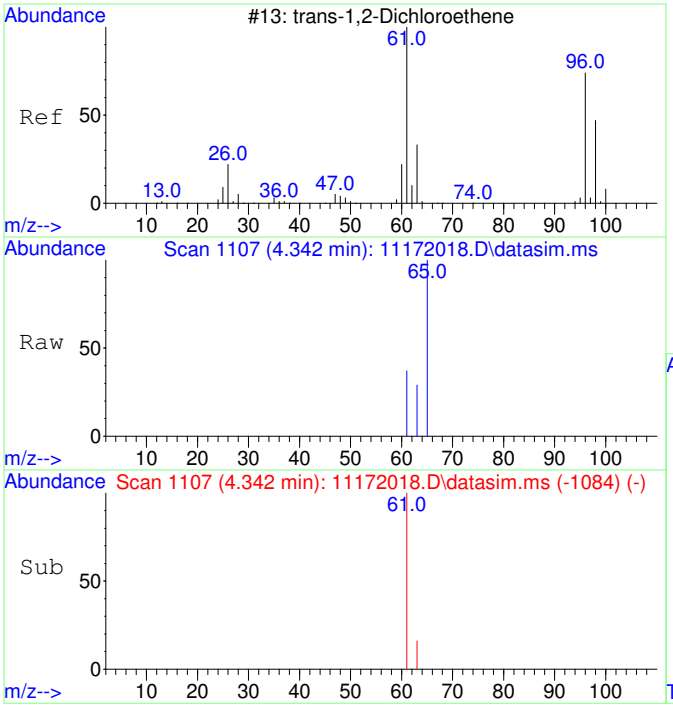
#2
1,1-Dichloroethene
Concen: 81.09 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 61 Resp: 1779

Ion	Ratio	Lower	Upper
61	100		
96	55.7	37.2	97.2



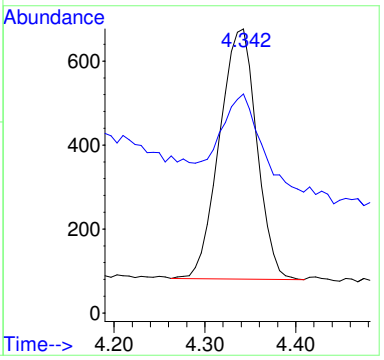
Before MI:
IMPROPER
BASELINE

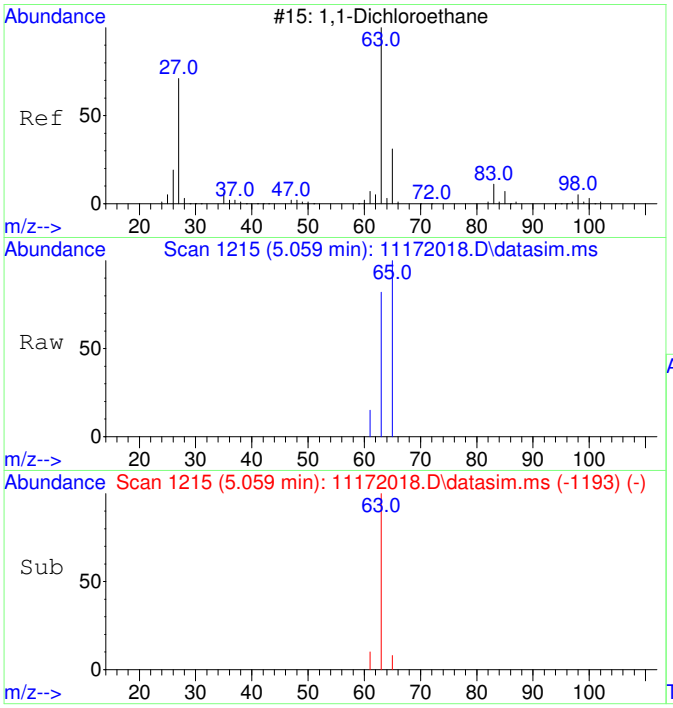


#3
trans-1,2-Dichloroethene
Concen: 67.22 ug/L
RT: 4.342 min Scan# 1107
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 61 Resp: 1704

Ion	Ratio	Lower	Upper
61	100		
63	58.4	2.4	62.4

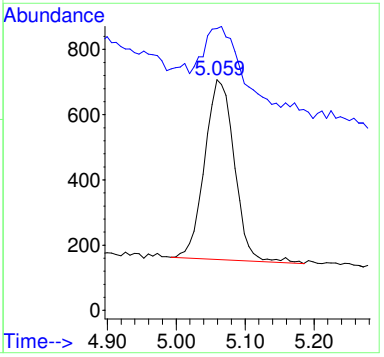


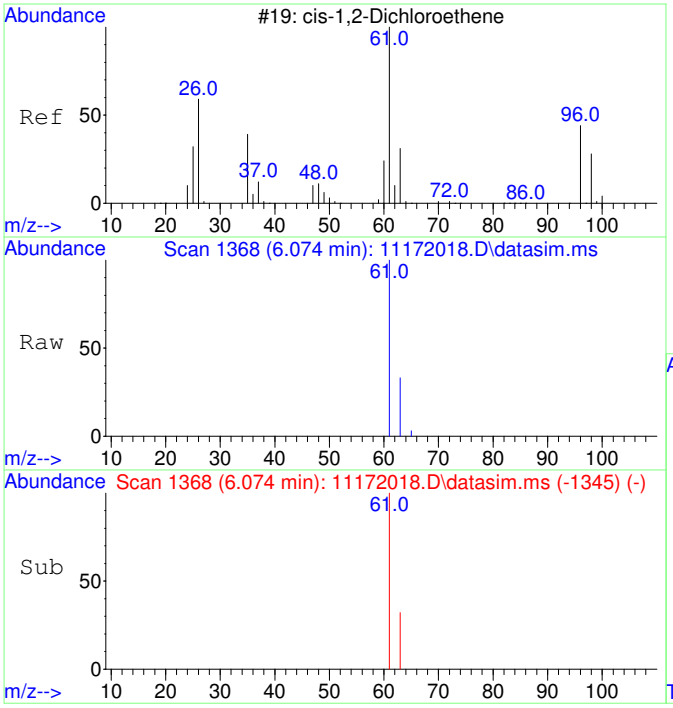


#4
1,1-Dichloroethane
Concen: 52.26 ug/L
RT: 5.059 min Scan# 1215
Delta R.T. -0.007 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 63 Resp: 1649

Ion	Ratio	Lower	Upper
63	100		
65	58.4	1.8	61.8

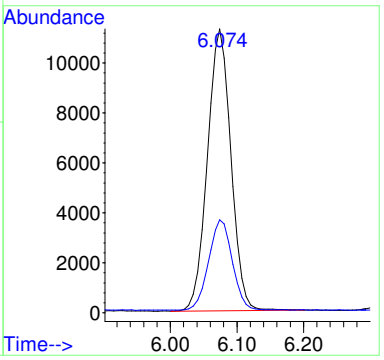


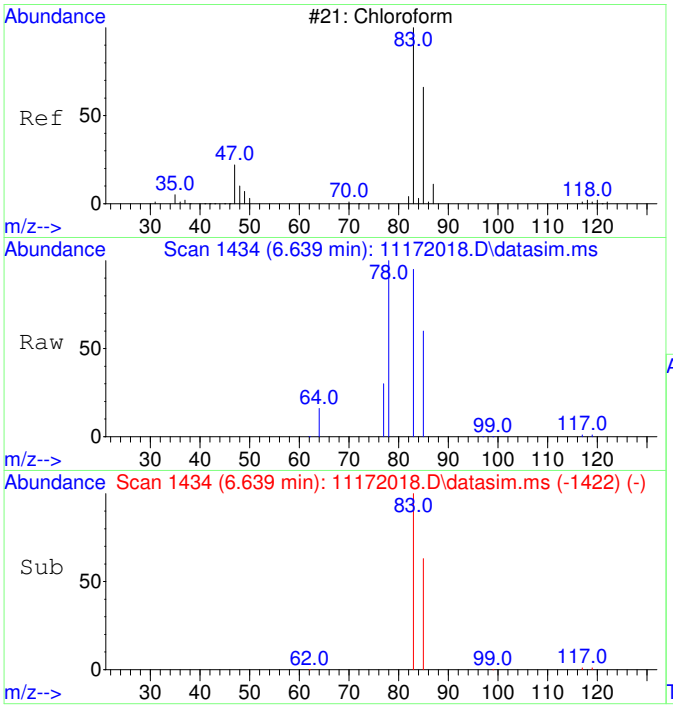


#5
cis-1,2-Dichloroethene
Concen: 830.99 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 61 Resp: 27678

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.5	62.5

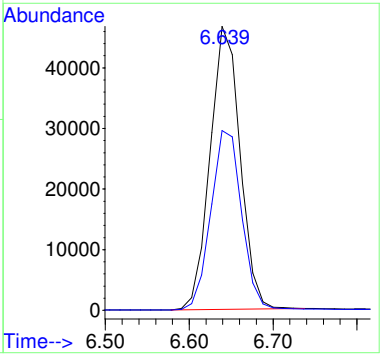


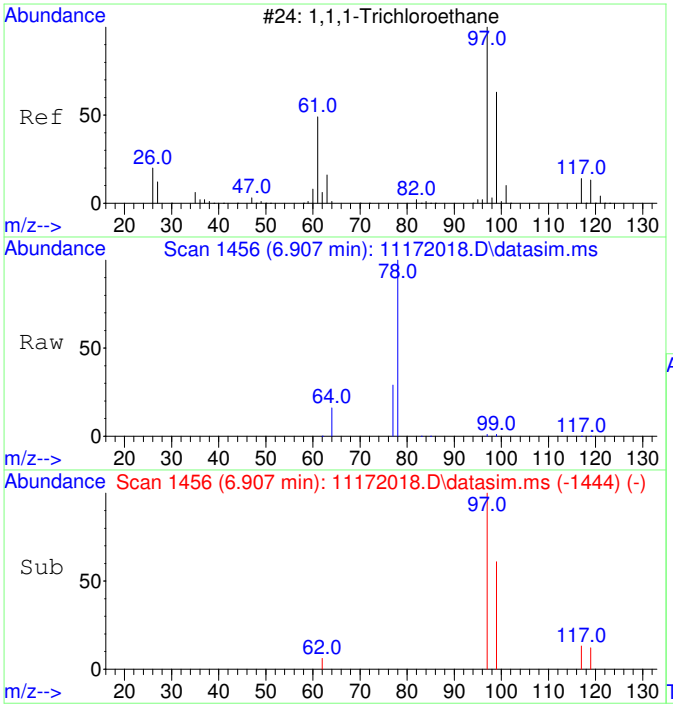


#6
Chloroform
Concen: 3395.88 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 83 Resp: 115770

Ion	Ratio	Lower	Upper
83	100		
85	64.8	35.1	95.1

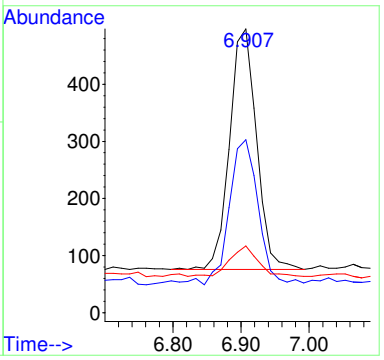


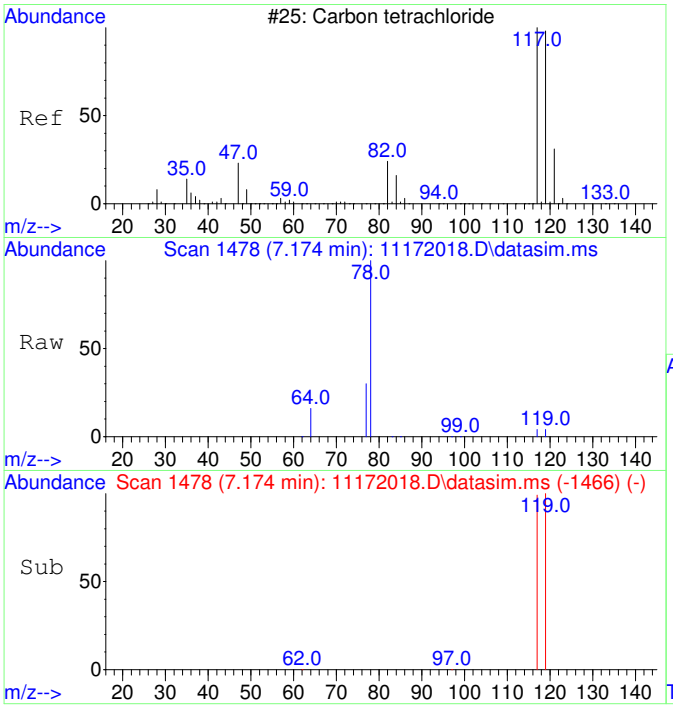


#7
1,1,1-Trichloroethane
Concen: 31.20 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 97 Resp: 1155

Ion	Ratio	Lower	Upper
97	100		
99	62.3	34.6	94.6
117	12.9	0.0	43.2

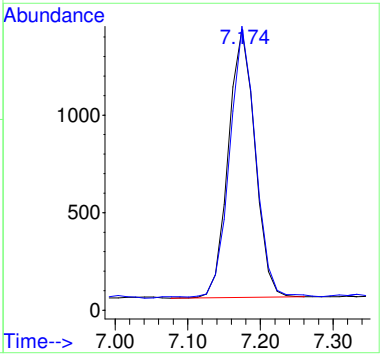


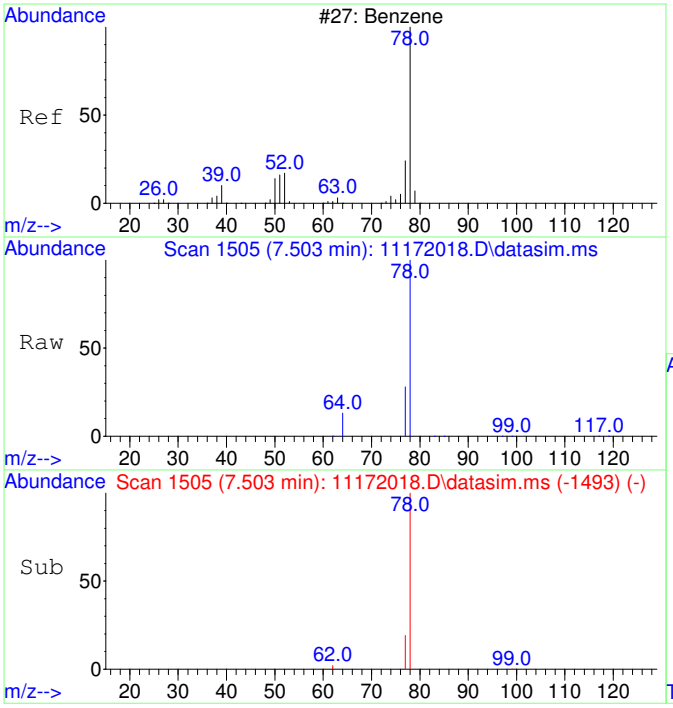


#8
Carbon tetrachloride
Concen: 100.30 ug/L
RT: 7.174 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:117 Resp: 3495

Ion	Ratio	Lower	Upper
117	100		
119	97.6	66.4	126.4

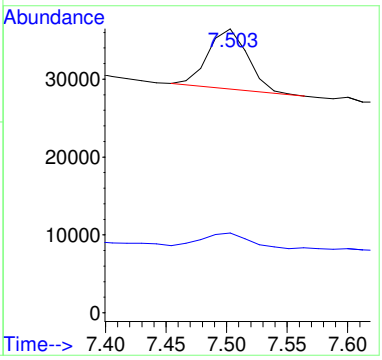


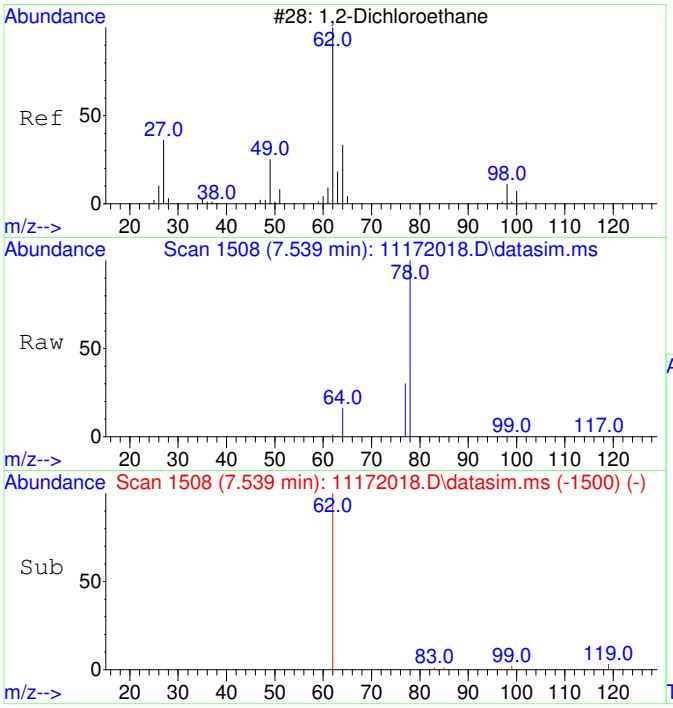


#9
Benzene
Concen: 182.55 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 78 Resp: 17041

Ion	Ratio	Lower	Upper
78	100		
77	36.2	0.0	53.2

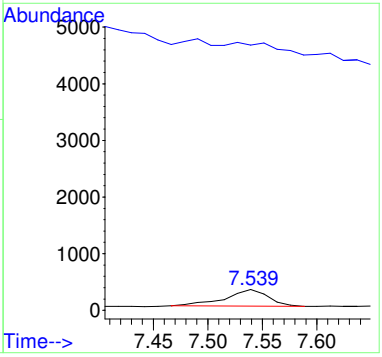


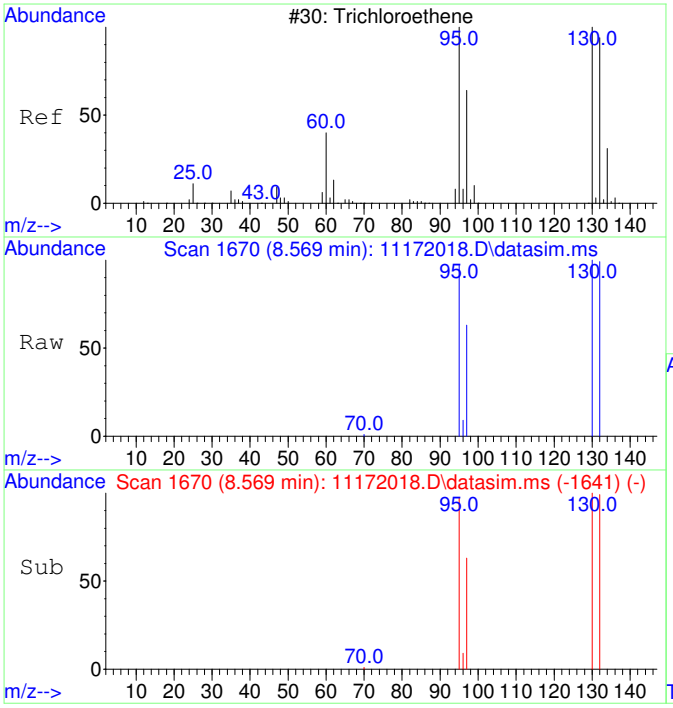


#10
1,2-Dichloroethane
Concen: 23.68 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 62 Resp: 789

Ion	Ratio	Lower	Upper
62	100		
64	149.7	2.3	62.3#

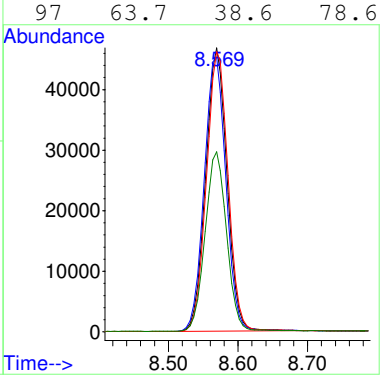


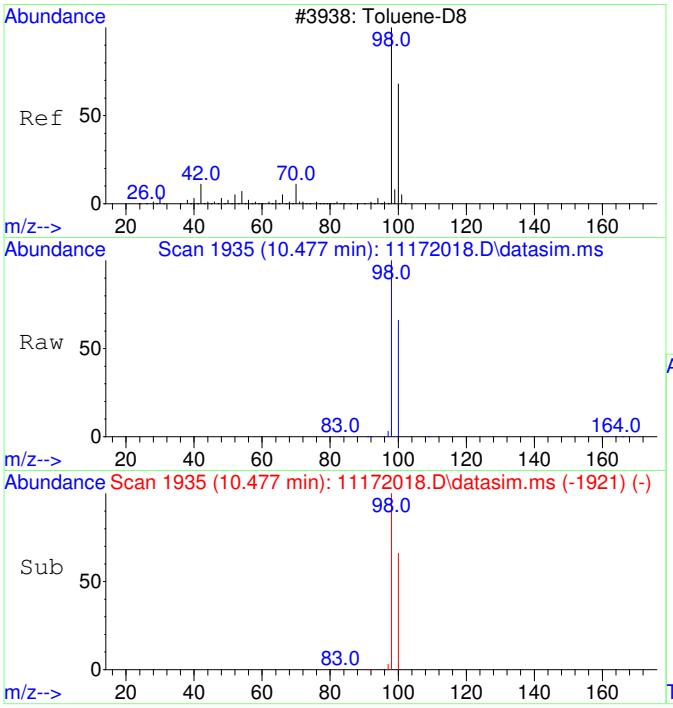


#11
Trichloroethene
Concen: 3536.71 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:130 Resp: 99406

Ion	Ratio	Lower	Upper
130	100		
95	98.6	60.7	120.7
132	99.8	76.0	116.0
97	63.7	38.6	78.6

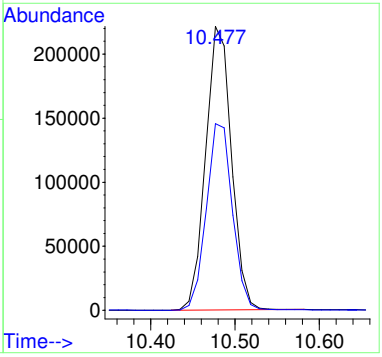


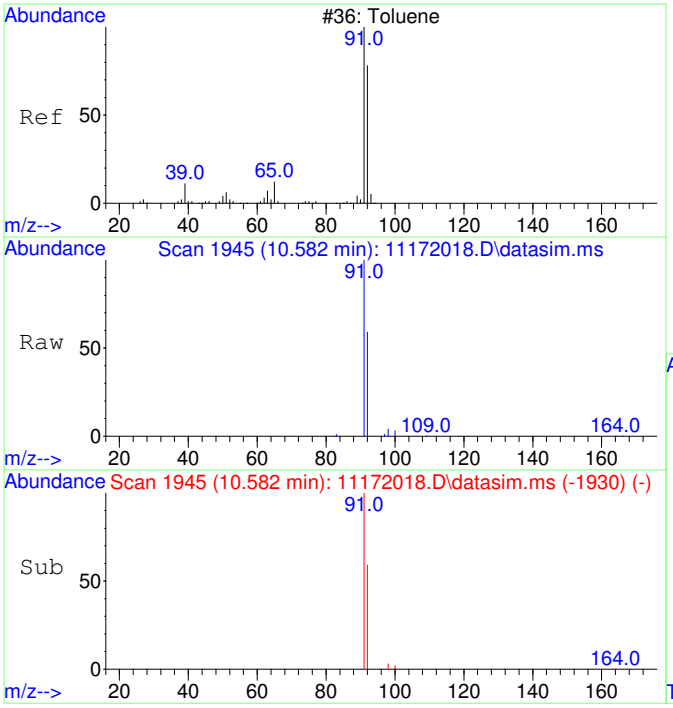


#12
Toluene-d8
Concen: 4393.78 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 98 Resp: 472582

Ion	Ratio	Lower	Upper
98	100		
100	66.3	37.1	97.1

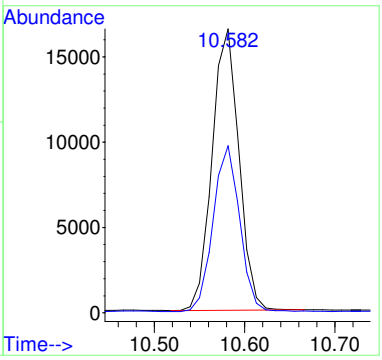


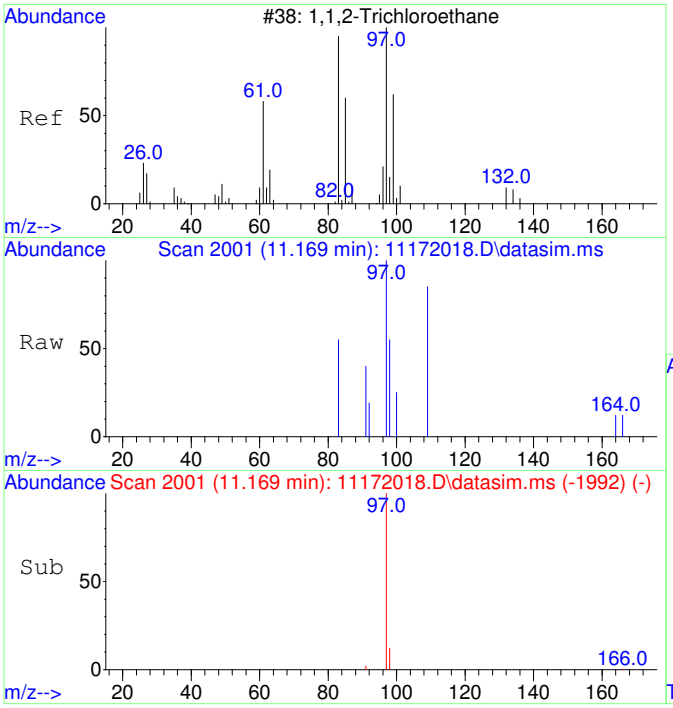


#13
Toluene
Concen: 249.18 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 34169

Ion	Ratio	Lower	Upper
91	100		
92	58.2	29.9	89.9

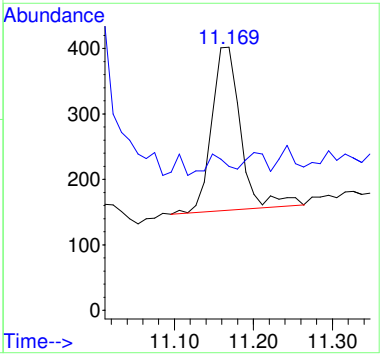


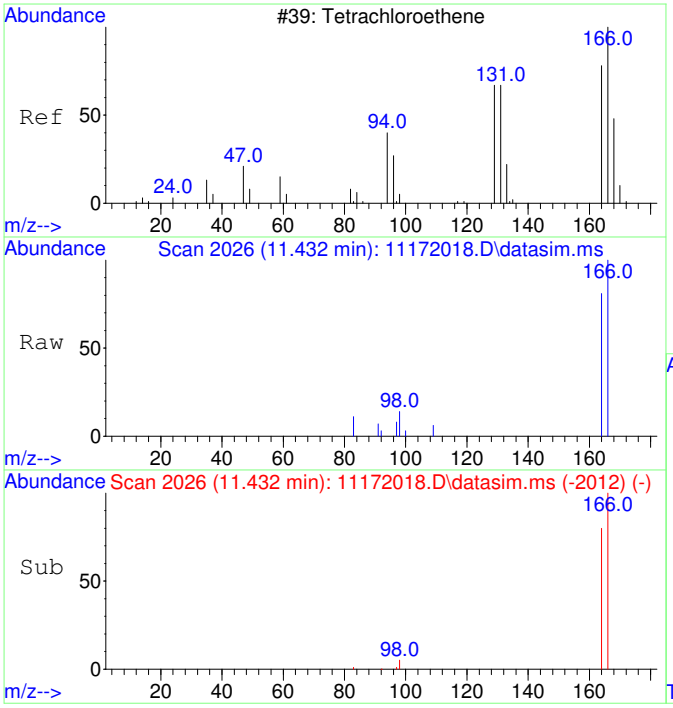


#14
1,1,2-Trichloroethane
Concen: 21.32 ug/L
RT: 11.169 min Scan# 2001
Delta R.T. -0.053 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 97 Resp: 637

Ion	Ratio	Lower	Upper
97	100		
83	0.0	51.2	111.2#

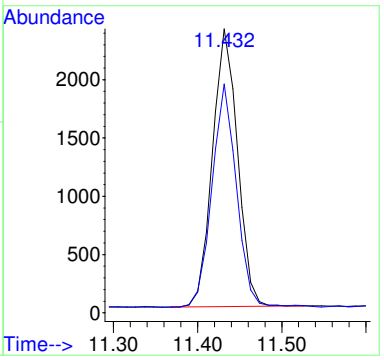


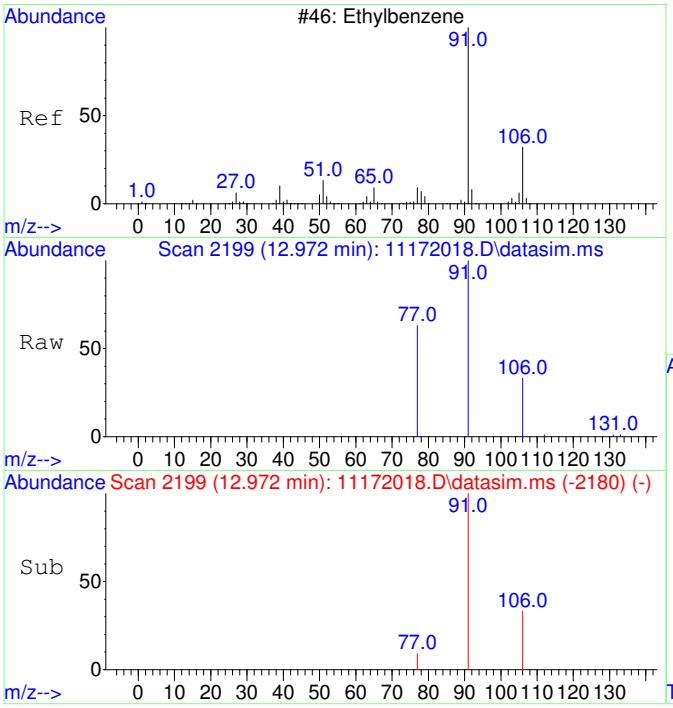


#15
Tetrachloroethene
Concen: 124.01 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:166 Resp: 4921

Ion	Ratio	Lower	Upper
166	100		
164	78.2	47.8	107.8

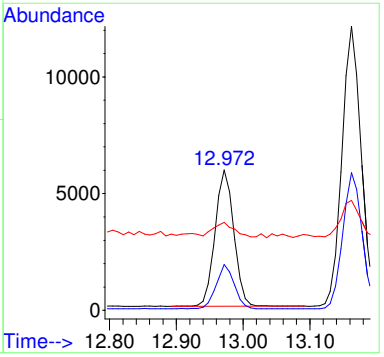


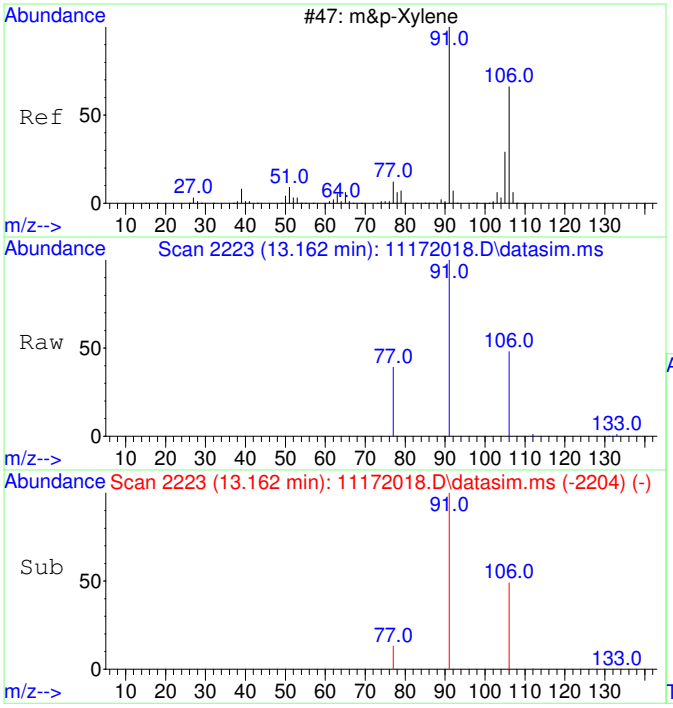


#18
Ethylbenzene
Concen: 68.10 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 11367

Ion	Ratio	Lower	Upper
91	100		
106	31.3	3.0	63.0
77	11.0	0.0	38.2

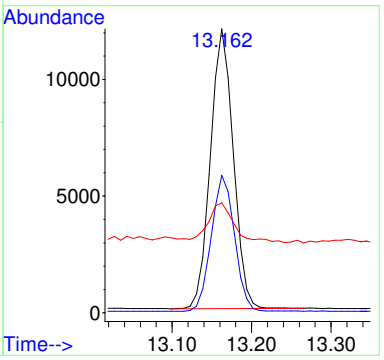


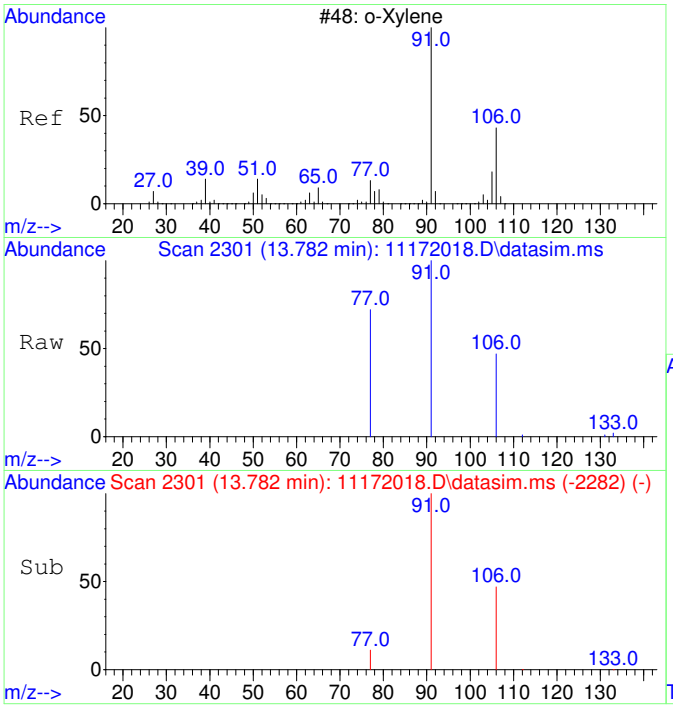


#19
m&p-Xylene
Concen: 183.82 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 23980

Ion	Ratio	Lower	Upper
91	100		
106	49.0	22.2	82.2
77	16.7	0.0	42.4

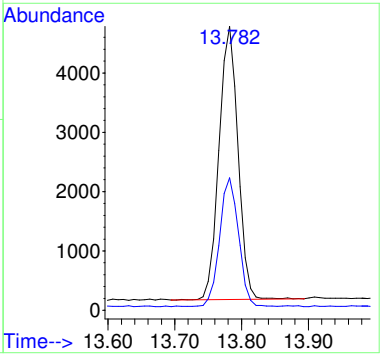


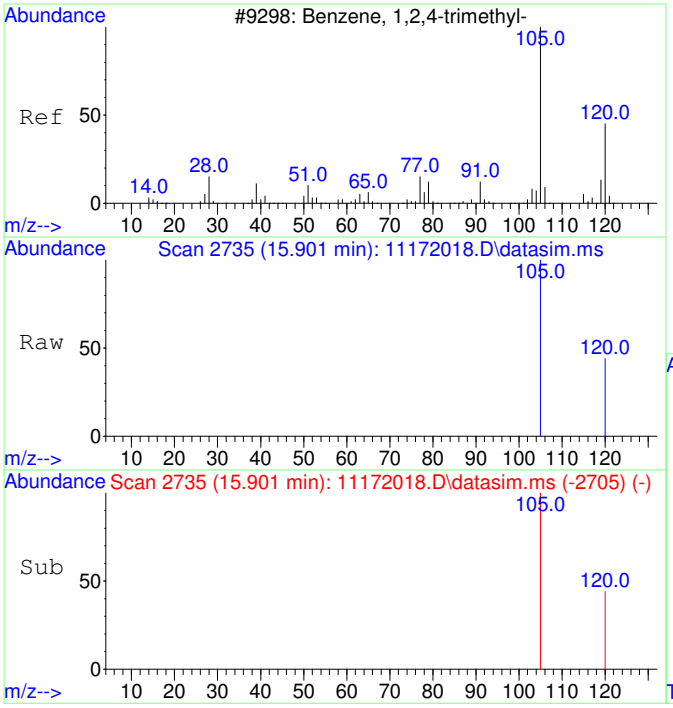


#20
o-Xylene
Concen: 65.16 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 9081

Ion	Ratio	Lower	Upper
91	100		
106	46.8	19.2	79.2

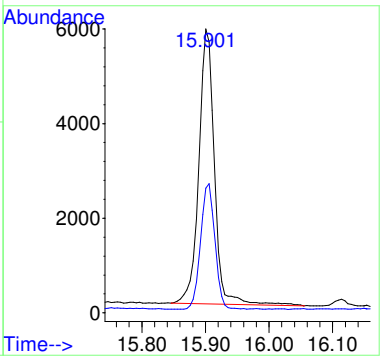


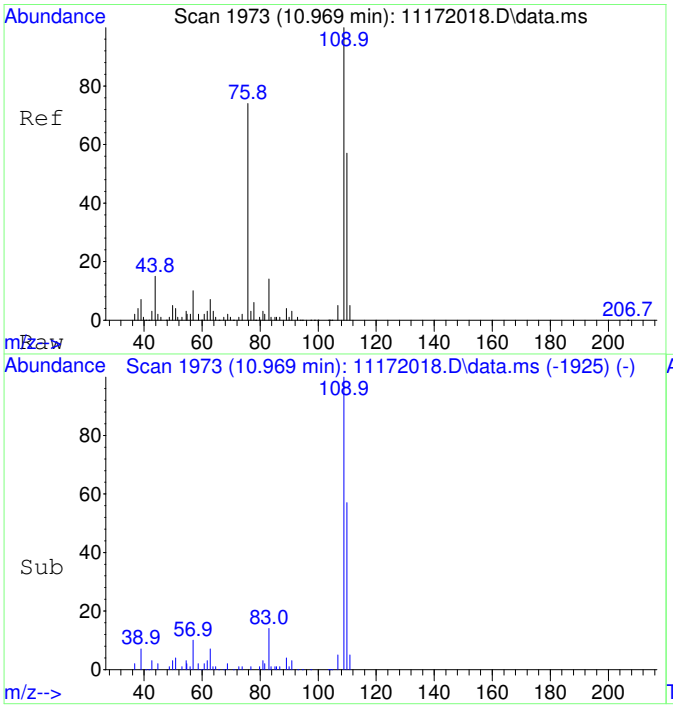


#23
1,2,4-Trimethylbenzene
Concen: 64.04 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:105 Resp: 9868

Ion	Ratio	Lower	Upper
105	100		
120	41.8	17.2	77.2

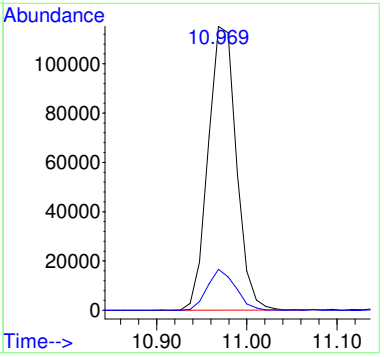


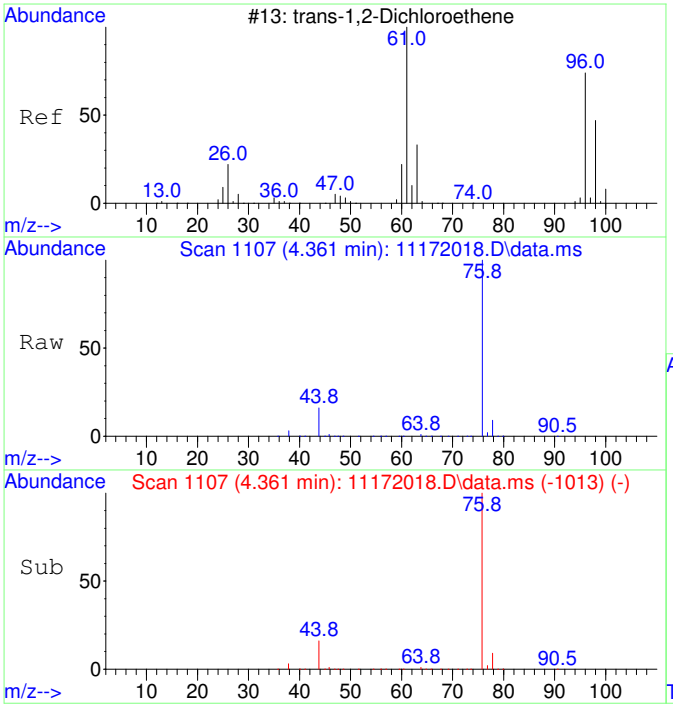


#25
2-Fluorotoluene SCAN
Concen: 4686.41 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:109 Resp: 251001

Ion	Ratio	Lower	Upper
109	100		
83	14.4	0.0	43.8

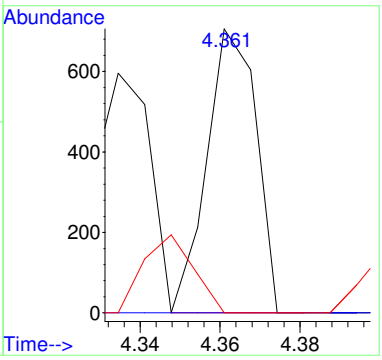


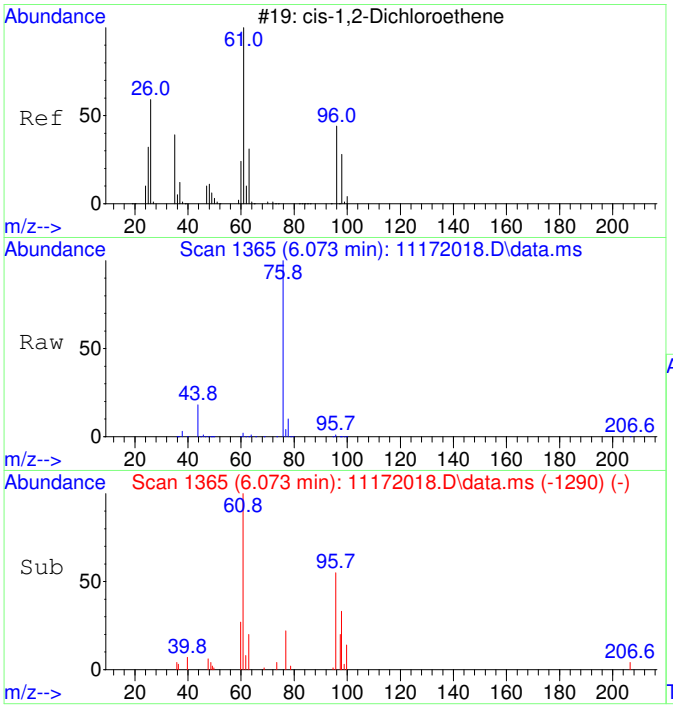


#27
trans-1,2-Dichloroethene SCAN
Concen: 43.05 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. 0.013 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 61 Resp: 606

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	27.9	20.5	80.5

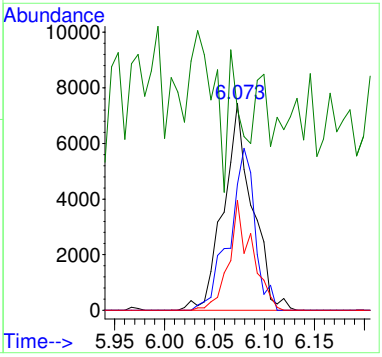


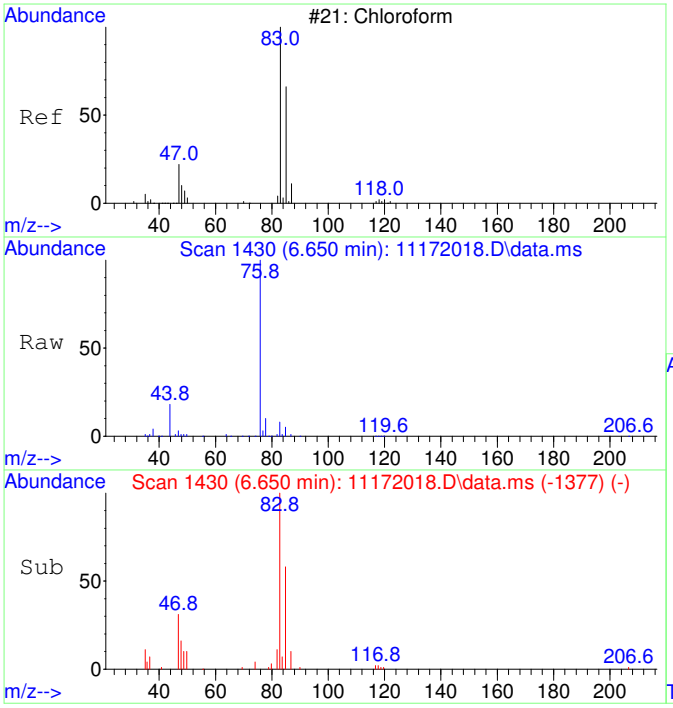


#29
cis-1,2-Dichloroethene SCAN
Concen: 855.02 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 61 Resp: 14922

Ion	Ratio	Lower	Upper
61	100		
96	69.9	39.9	99.9
98	42.4	13.5	73.5
64	22.3	4.5	64.5

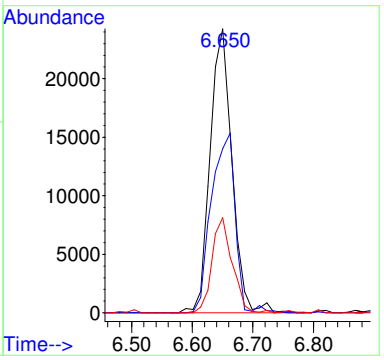


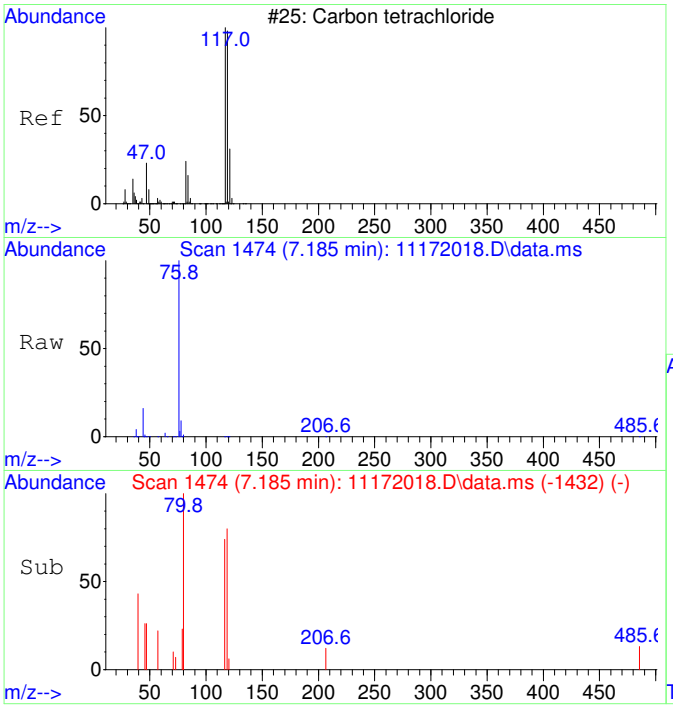


#30
Chloroform SCAN
Concen: 3226.77 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 83 Resp: 61081

Ion	Ratio	Lower	Upper
83	100		
85	67.0	34.6	94.6
47	31.0	0.0	53.4

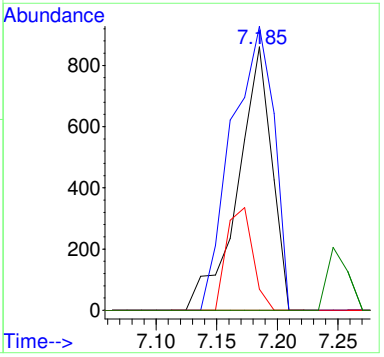


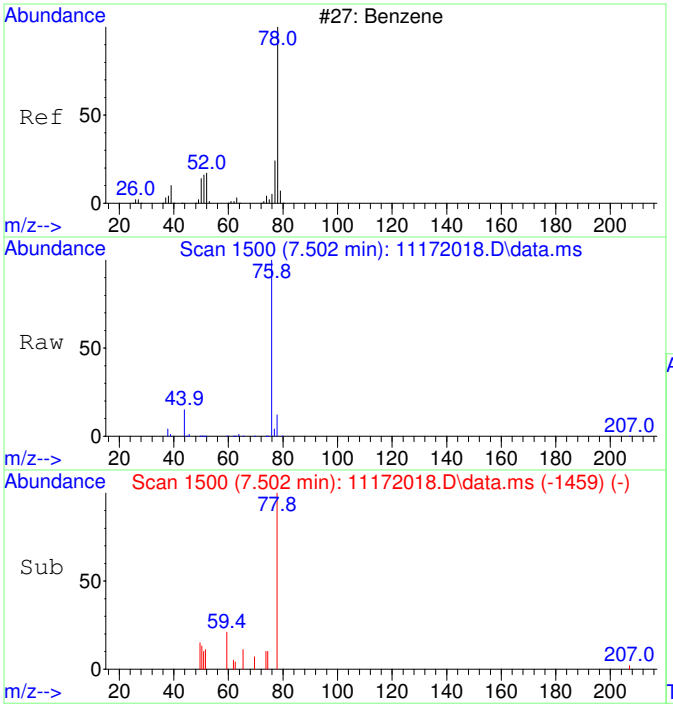


#32
Carbon tetrachloride SCAN
Concen: 93.59 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:117 Resp: 1684

Ion	Ratio	Lower	Upper
117	100		
119	134.4	75.5	135.5
121	30.2	0.0	58.8
82	0.0	0.0	59.2

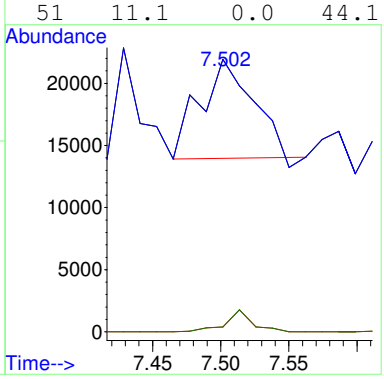


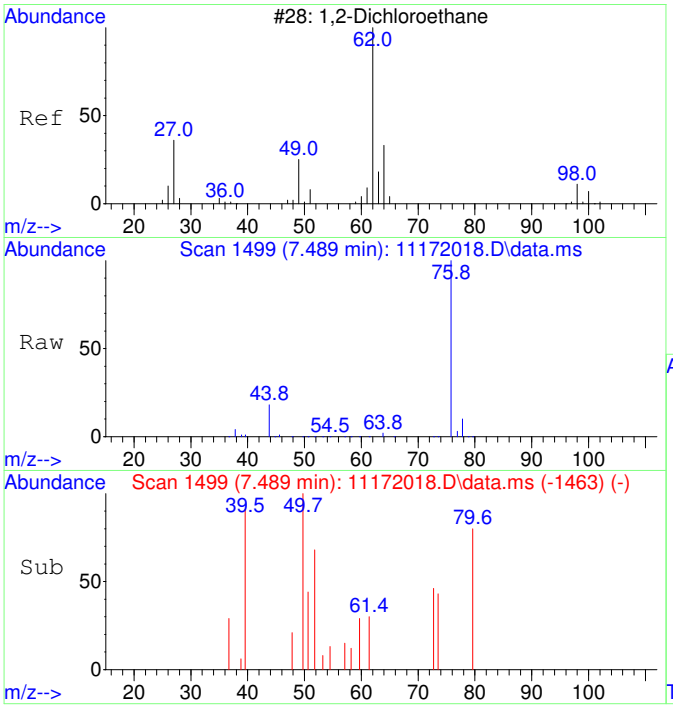


#33
Benzene SCAN
Concen: 450.19 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 78 Resp: 21382

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	11.1	0.0	47.9
51	11.1	0.0	44.1

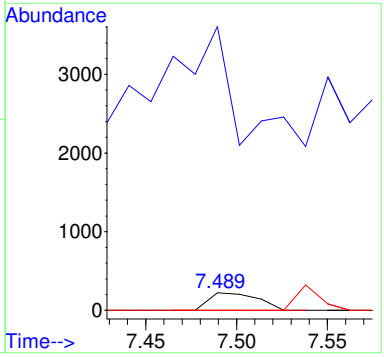


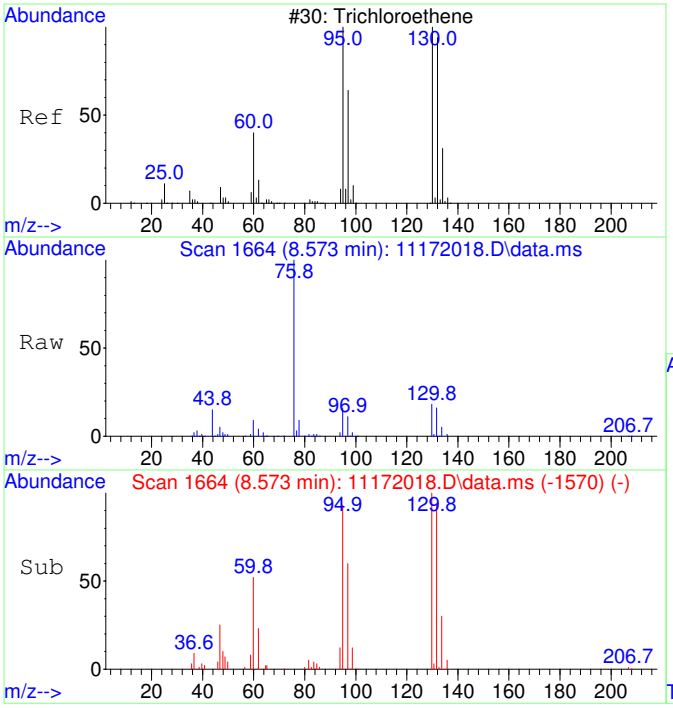


#34
1,2-Dichloroethane SCAN
Concen: 23.72 ug/L
RT: 7.489 min Scan# 1499
Delta R.T. -0.061 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 62 Resp: 416

Ion	Ratio	Lower	Upper
62	100		
64	701.9	5.2	65.2#
49	0.0	3.9	63.9#

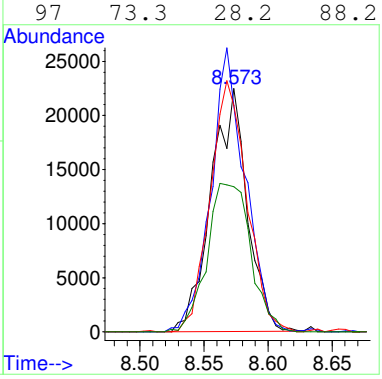


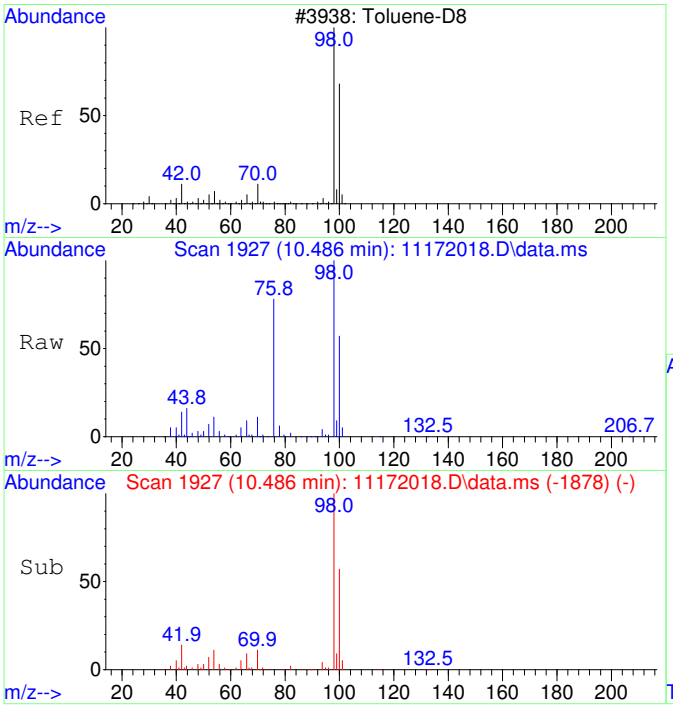


#35
Trichloroethene SCAN
Concen: 3386.02 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:130 Resp: 44195

Ion	Ratio	Lower	Upper
130	100		
95	109.7	60.5	120.5
132	104.7	59.6	119.6
97	73.3	28.2	88.2

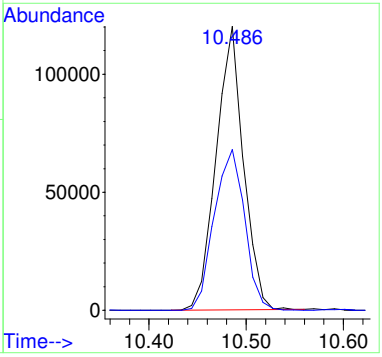


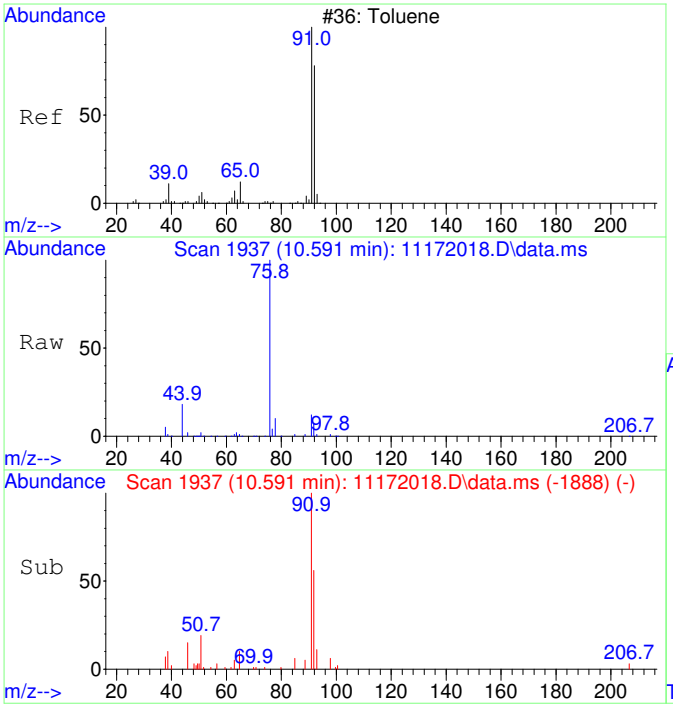


#36
Toluene-d8 SCAN
Concen: 4473.17 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 98 Resp: 234302

Ion	Ratio	Lower	Upper
98	100		
100	63.0	40.0	100.0

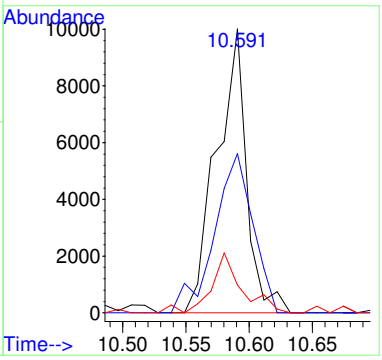


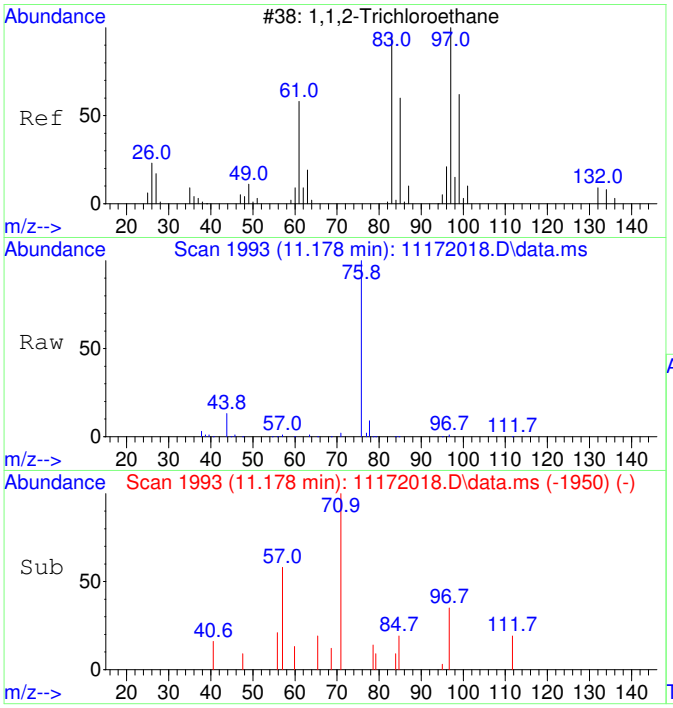


#37
Toluene SCAN
Concen: 246.77 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 16553

Ion	Ratio	Lower	Upper
91	100		
92	71.8	28.3	88.3
65	21.4	0.0	41.0

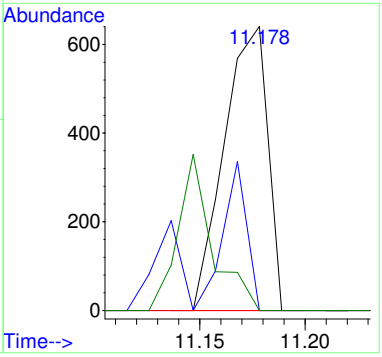


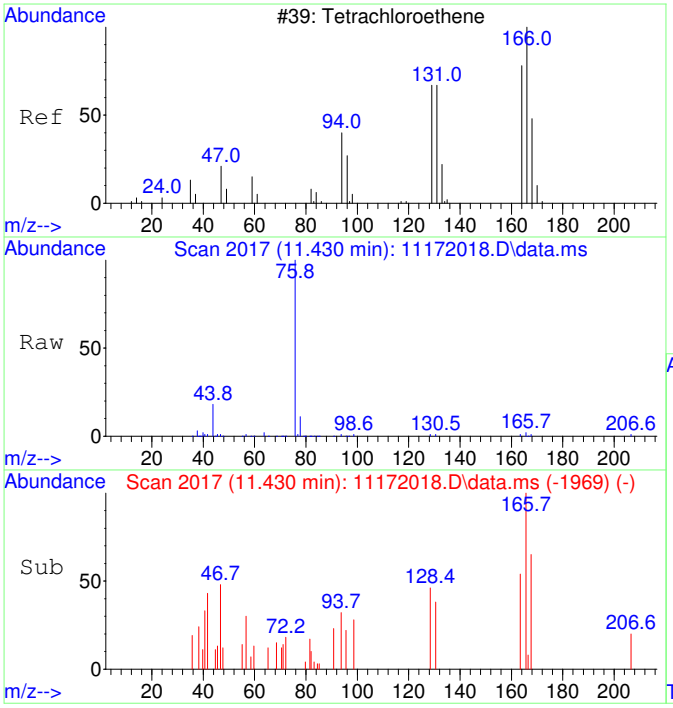


#38
1,1,2-Trichloroethane SCAN
Concen: 61.04 ug/L
RT: 11.178 min Scan# 1993
Delta R.T. -0.053 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 97 Resp: 919

Ion	Ratio	Lower	Upper
97	100		
83	29.2	57.7	117.7#
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

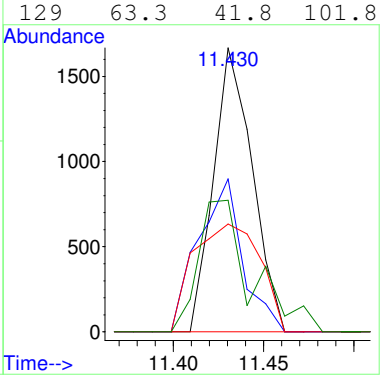


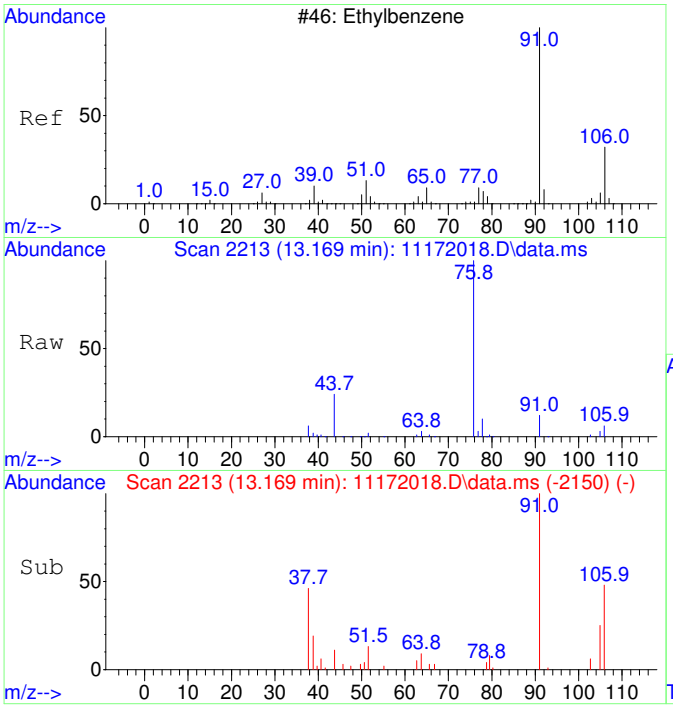


#39
Tetrachloroethene SCAN
Concen: 154.88 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:166 Resp: 2496

Ion	Ratio	Lower	Upper
166	100		
164	61.1	50.9	110.9
131	65.4	38.7	98.7
129	63.3	41.8	101.8

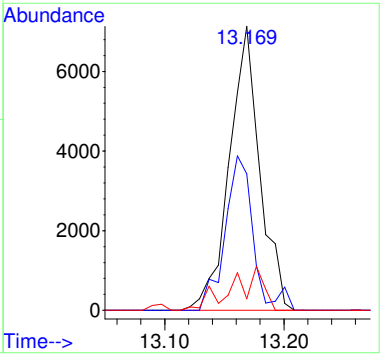


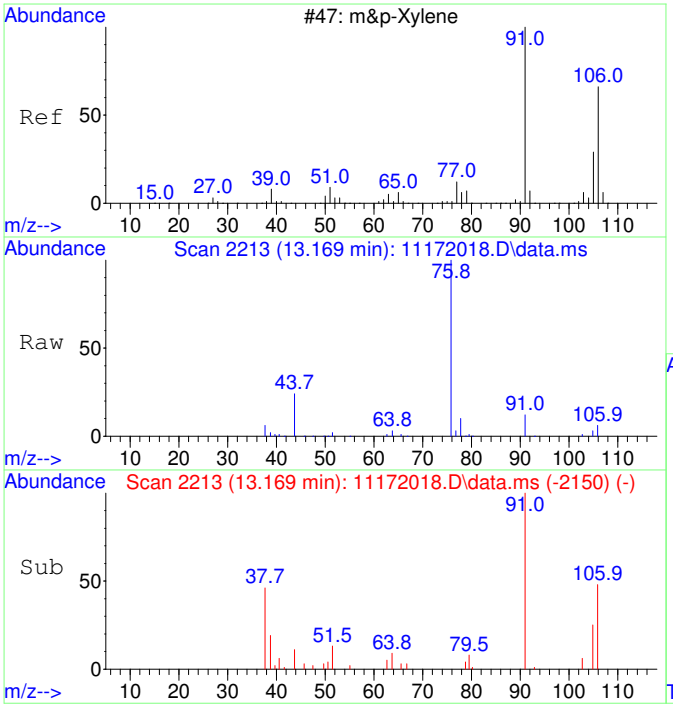


#42
Ethylbenzene SCAN
Concen: 103.96 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 12705

Ion	Ratio	Lower	Upper
91	100		
106	50.5	23.1	83.1
51	15.7	0.0	40.1

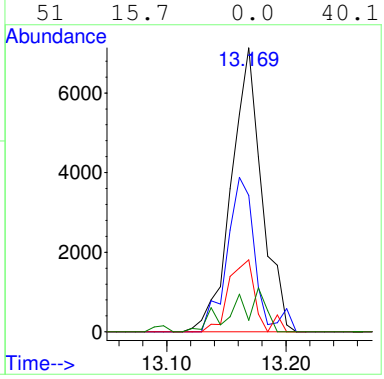


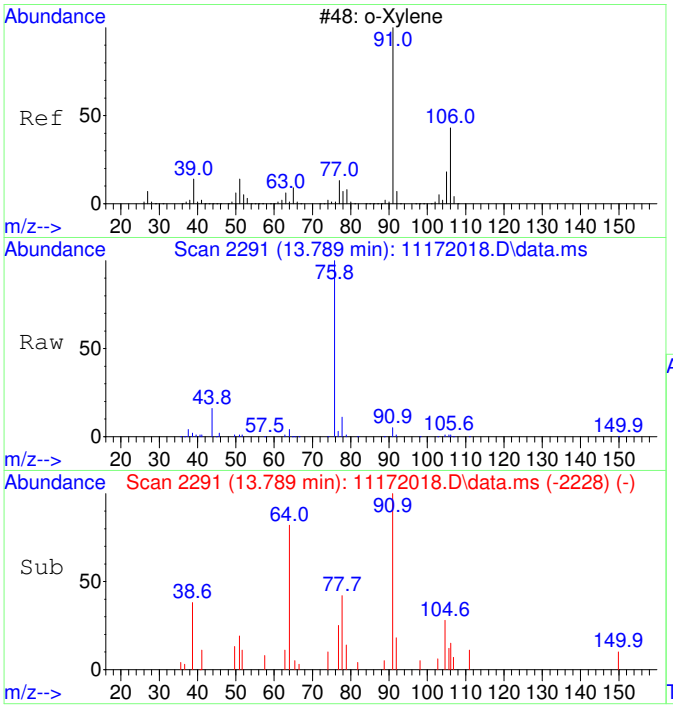


#43
m&p-Xylene SCAN
Concen: 103.96 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 12705

Ion	Ratio	Lower	Upper
91	100		
106	50.5	23.1	83.1
105	22.8	0.0	54.7
51	15.7	0.0	40.1

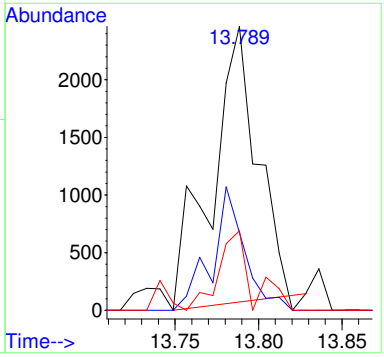


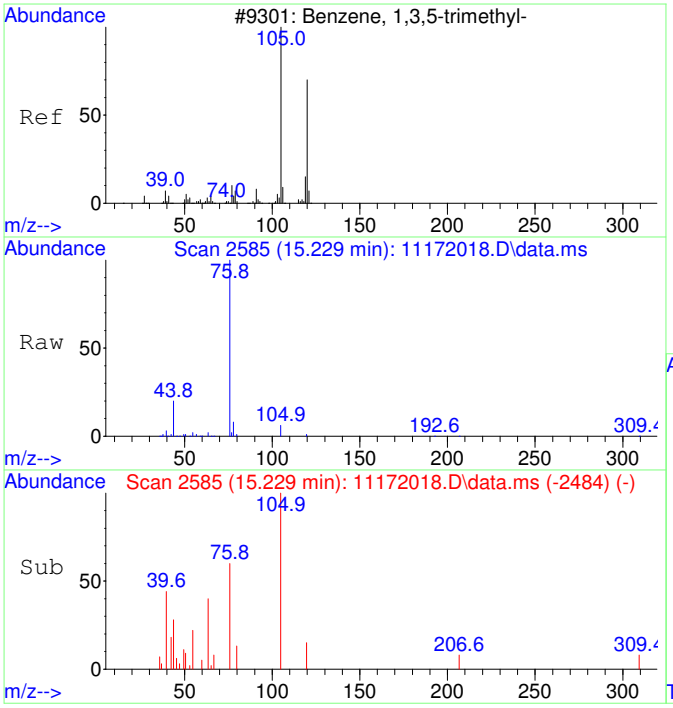


#44
o-Xylene SCAN
Concen: 69.77 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 4564

Ion	Ratio	Lower	Upper
91	100		
106	32.0	18.0	78.0
105	21.2	0.0	56.6

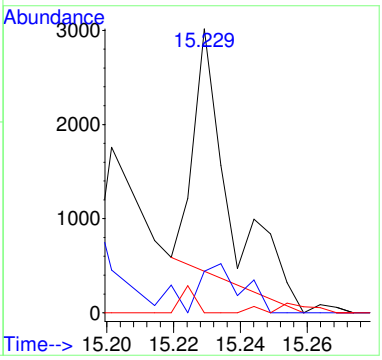


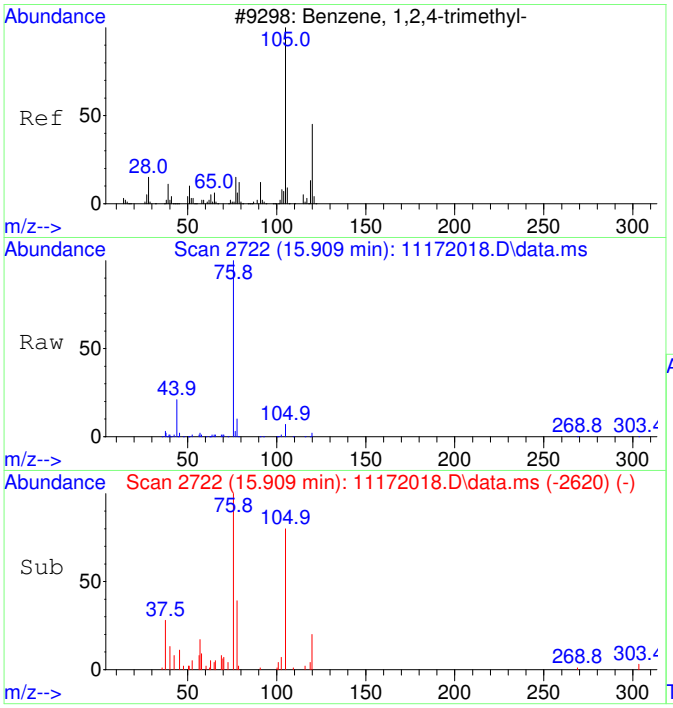


#46
1,3,5-Trimethylbenzene SCAN
Concen: 26.18 ug/L
RT: 15.229 min Scan# 2585
Delta R.T. -0.114 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:105 Resp: 1805

Ion	Ratio	Lower	Upper
105	100		
120	24.7	18.3	78.3
119	4.8	0.0	43.1

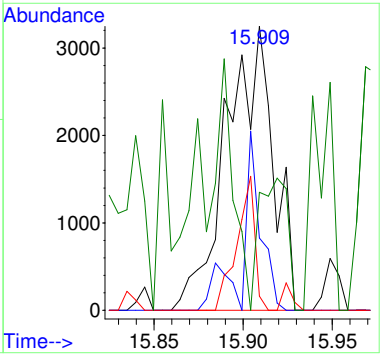




#47
1,2,4-Trimethylbenzene SCAN
Concen: 84.46 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.005 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:105 Resp: 5958

Ion	Ratio	Lower	Upper
105	100		
120	13.5	16.9	76.9#
119	18.2	0.0	41.9
77	0.0	0.0	42.3



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172018.D
Acq On : 17 Nov 2020 14:36
InstName : AG5975C
Operator : TD
Sample : 2011017-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

M.I. Performed By:
TD at 8:57 am, Nov 23, 2020

M.I. Approved By:
ZR at 3:39 pm, Nov 23, 2020

Quant Time: Nov 18 06:16:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

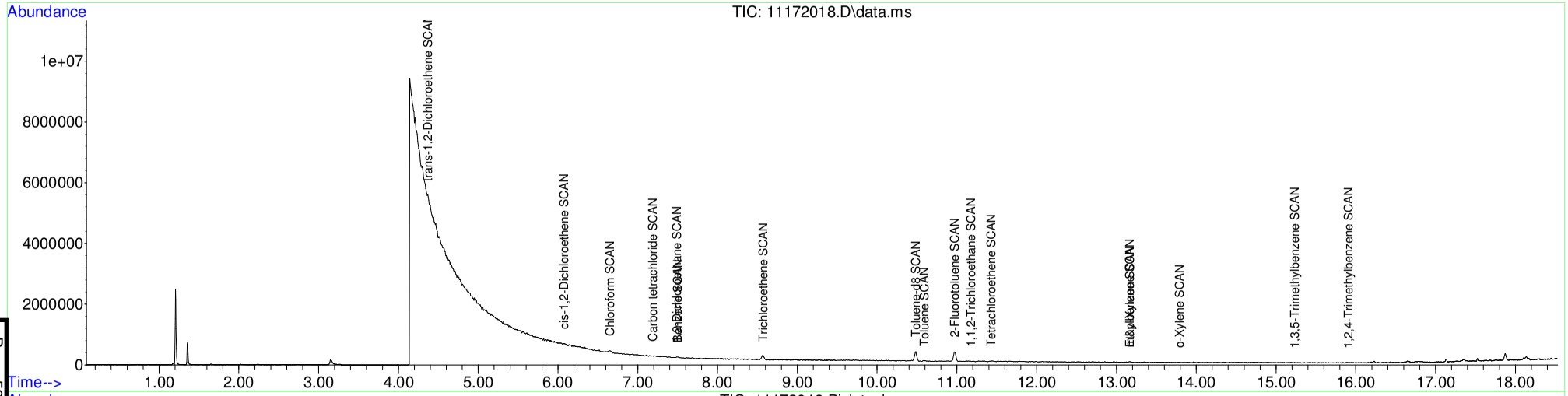
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	549431	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	472582	4393.78	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.88%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	1232m	56.15	ug/L	
3] trans-1,2-Dichloroethene	4.342	61	1704	67.22	ug/L	54
4] 1,1-Dichloroethane	5.059	63	1649	52.26	ug/L	52
5] cis-1,2-Dichloroethene	6.074	61	27678	830.99	ug/L	100
6] Chloroform	6.639	83	115770	3395.88	ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	1155	31.20	ug/L	97
8] Carbon tetrachloride	7.174	117	3495	100.30	ug/L	99
9] Benzene	7.503	78	17041	182.55	ug/L	73
10] 1,2-Dichloroethane	7.539	62	789	23.68	ug/L #	1
11] Trichloroethene	8.569	130	99406	3536.71	ug/L	94
13] Toluene	10.582	91	34169	249.18	ug/L	98
14] 1,1,2-Trichloroethane	11.169	97	637	21.32	ug/L #	9
15] Tetrachloroethene	11.432	166	4921	124.01	ug/L	100
18] Ethylbenzene	12.972	91	11367	68.10	ug/L	96
19] m&p-Xylene	13.162	91	23980	183.82	ug/L	94
20] o-Xylene	13.782	91	9081	65.16	ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	9868	64.04	ug/L	92
25) 2-Fluorotoluene SCAN	10.969	109	251001	4686.41	ug/L	99
27) trans-1,2-Dichloroethe...	4.361	61	606	43.05	ug/L #	32
29) cis-1,2-Dichloroethene...	6.073	61	14922	855.02	ug/L	95
30) Chloroform SCAN	6.650	83	61081	3226.77	ug/L	94
32) Carbon tetrachloride SCAN	7.185	117	1684	93.59	ug/L #	72
33) Benzene SCAN	7.502	78	21382	450.19	ug/L	97
34) 1,2-Dichloroethane SCAN	7.489	62	416	23.72	ug/L #	1
35) Trichloroethene SCAN	8.573	130	44195	3386.02	ug/L	81
36) Toluene-d8 SCAN	10.486	98	234302	4473.17	ug/L	91
37) Toluene SCAN	10.591	91	16553	246.77	ug/L	80
38) 1,1,2-Trichloroethane ...	11.178	97	919	61.04	ug/L #	26
39) Tetrachloroethene SCAN	11.430	166	2496	154.88	ug/L	87
42) Ethylbenzene SCAN	13.169	91	12705	103.96	ug/L	95
43) m&p-Xylene SCAN	13.169	91	12705	103.96	ug/L	95
44) o-Xylene SCAN	13.789	91	4564	69.77	ug/L	81
46) 1,3,5-Trimethylbenzene...	15.229	105	1805	26.18	ug/L	68
47) 1,2,4-Trimethylbenzene...	15.909	105	5958	84.46	ug/L #	59

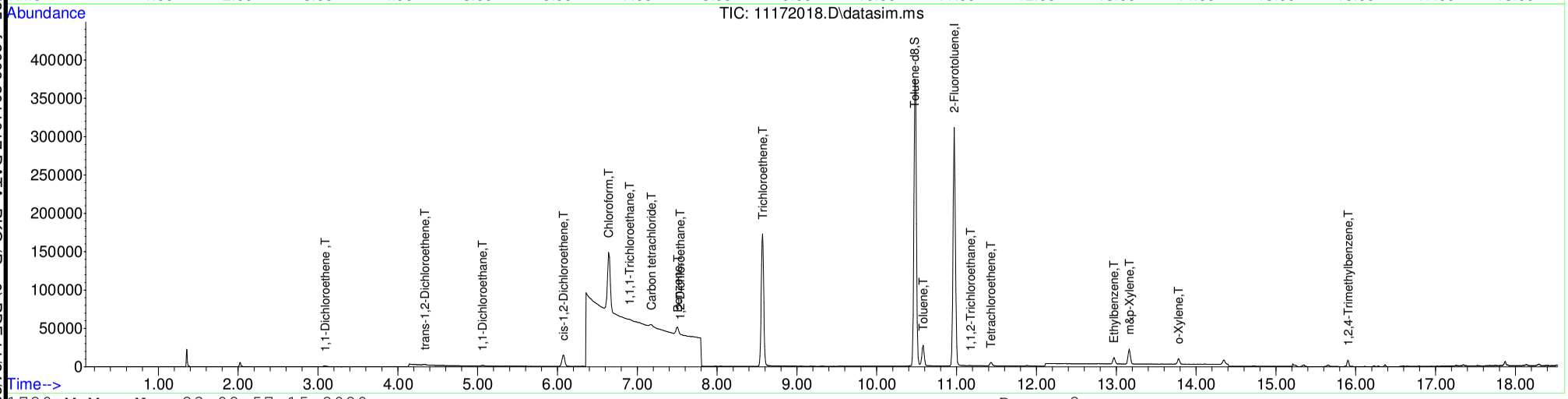
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172018.D
Acq On : 17 Nov 2020 14:36
InstName : AG5975C
Operator : TD
Sample : 2011017-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 18 06:16:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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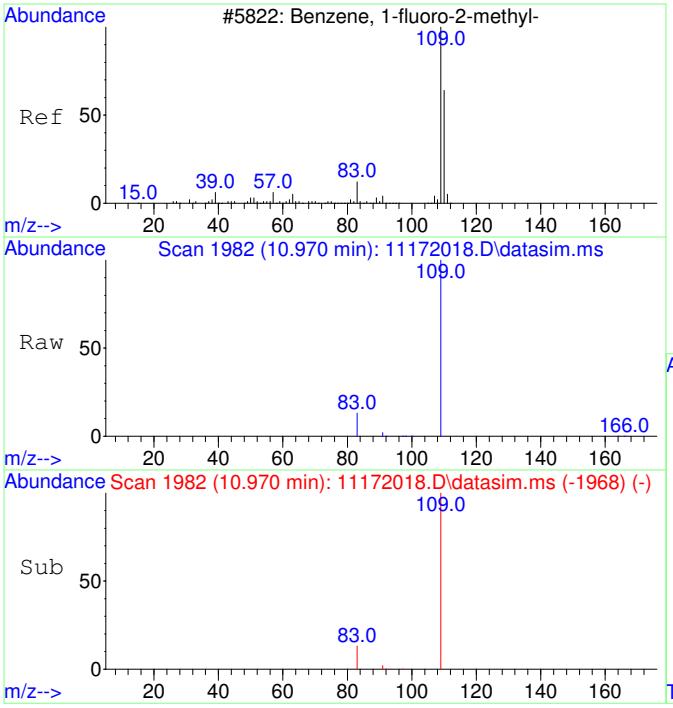
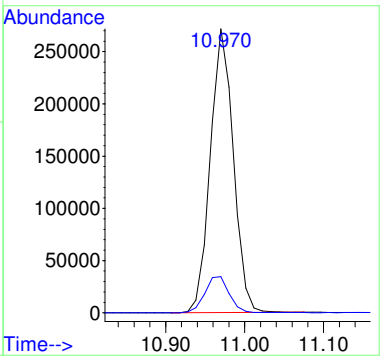
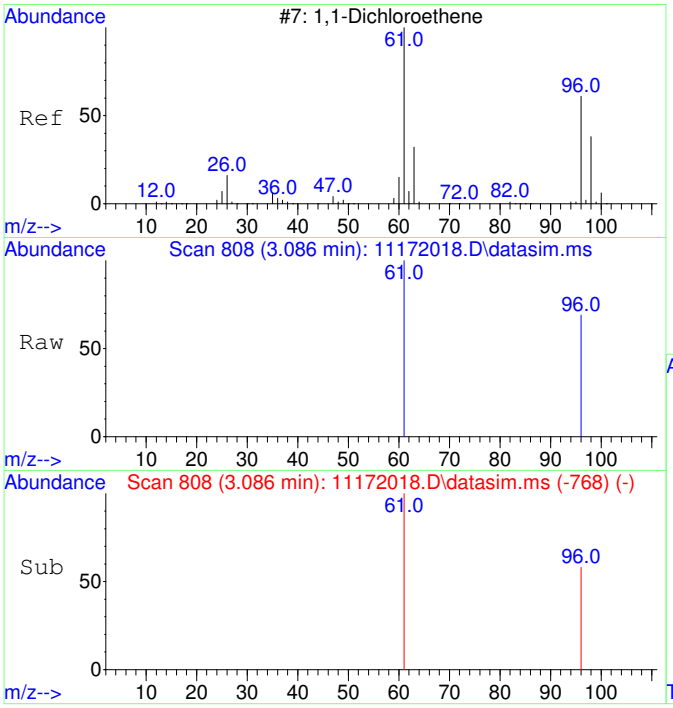


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:109 Resp: 549431

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

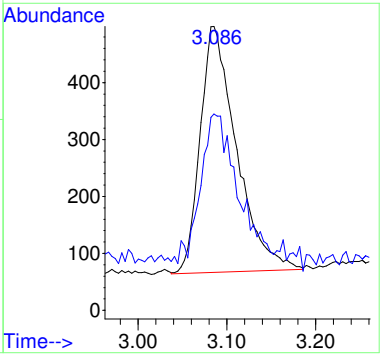


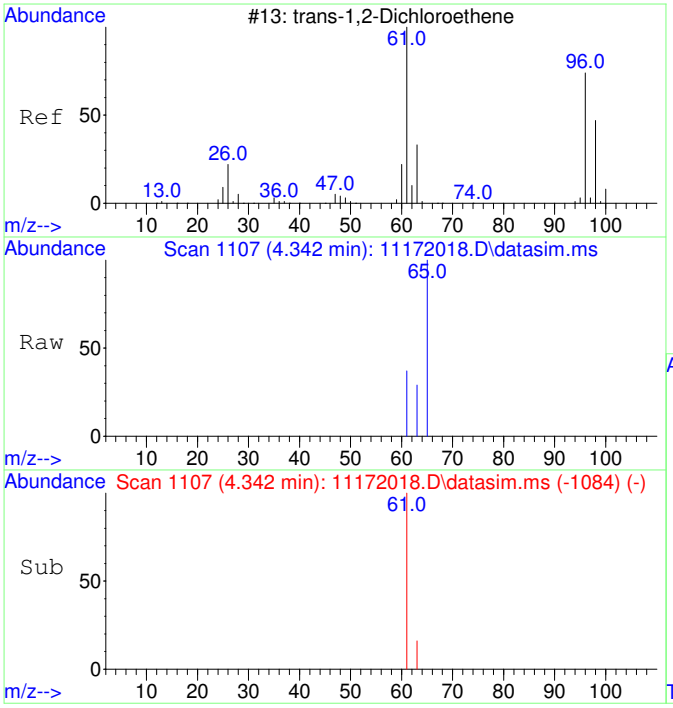


#2
1,1-Dichloroethene
Concen: 56.15 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 61 Resp: 1232

Ion	Ratio	Lower	Upper
61	100		
96	80.4	37.2	97.2

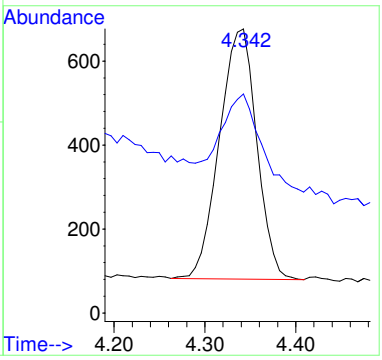


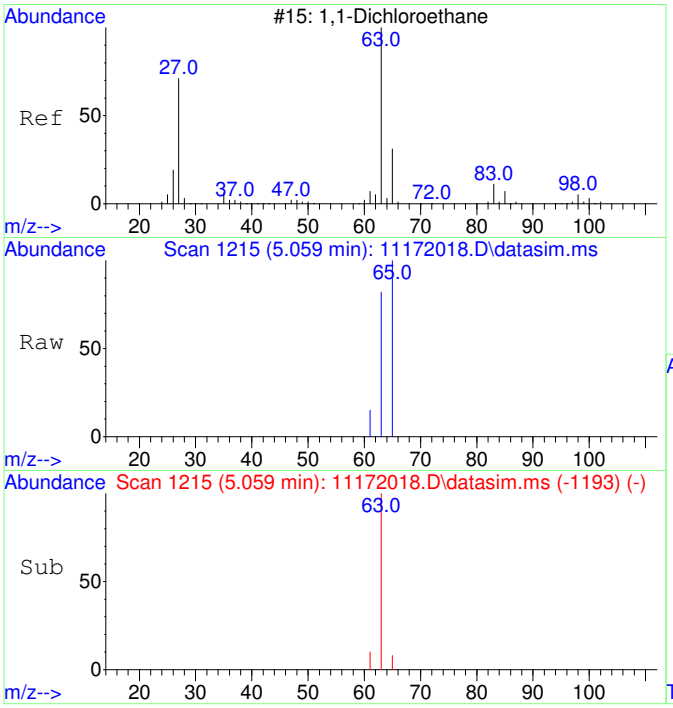


#3
trans-1,2-Dichloroethene
Concen: 67.22 ug/L
RT: 4.342 min Scan# 1107
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 61 Resp: 1704

Ion	Ratio	Lower	Upper
61	100		
63	58.4	2.4	62.4

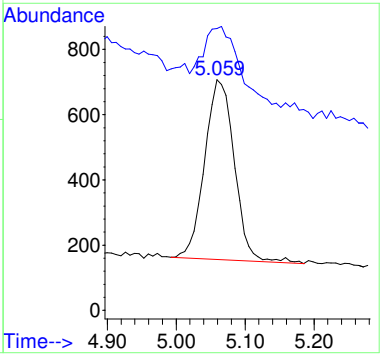


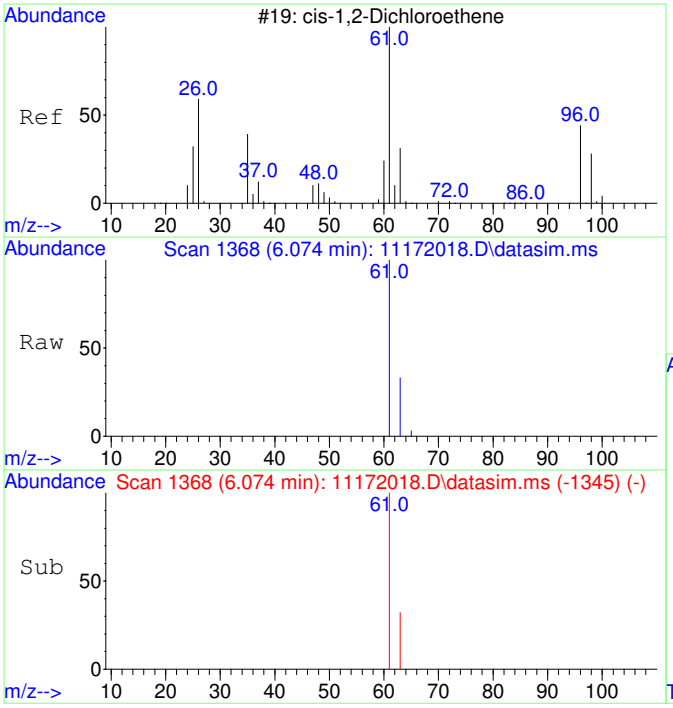


#4
1,1-Dichloroethane
Concen: 52.26 ug/L
RT: 5.059 min Scan# 1215
Delta R.T. -0.007 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 63 Resp: 1649

Ion	Ratio	Lower	Upper
63	100		
65	58.4	1.8	61.8

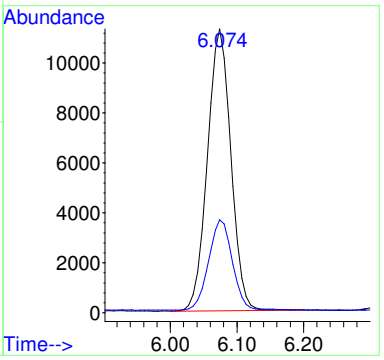


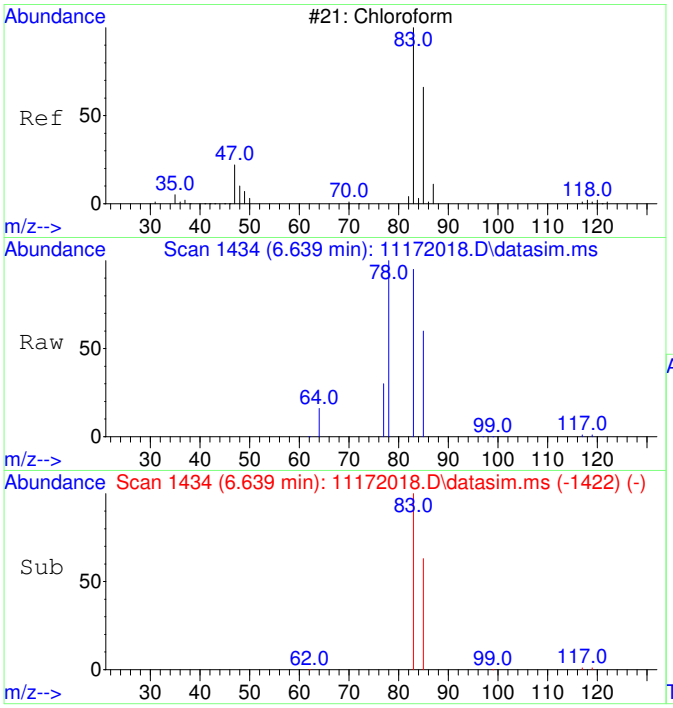


#5
cis-1,2-Dichloroethene
Concen: 830.99 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 61 Resp: 27678

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.5	62.5

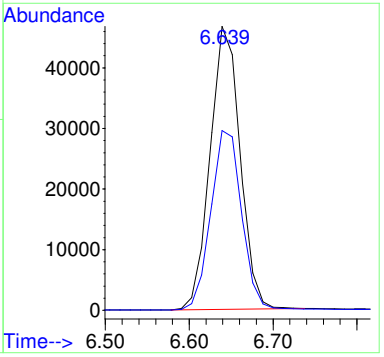


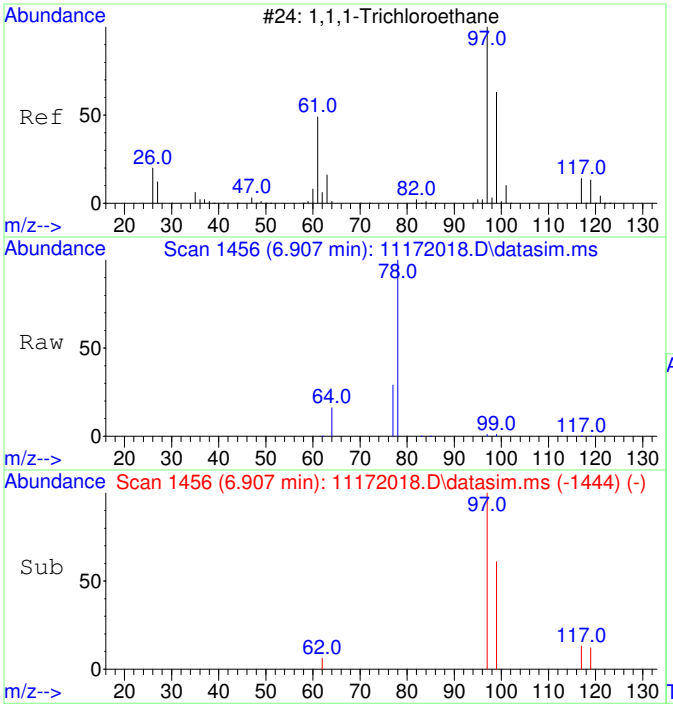


#6
Chloroform
Concen: 3395.88 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 83 Resp: 115770

Ion	Ratio	Lower	Upper
83	100		
85	64.8	35.1	95.1

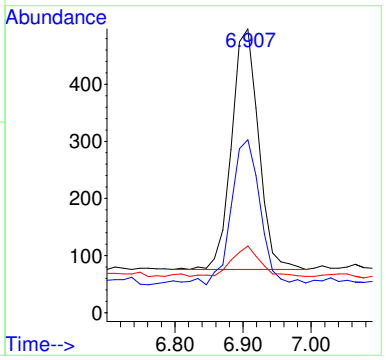


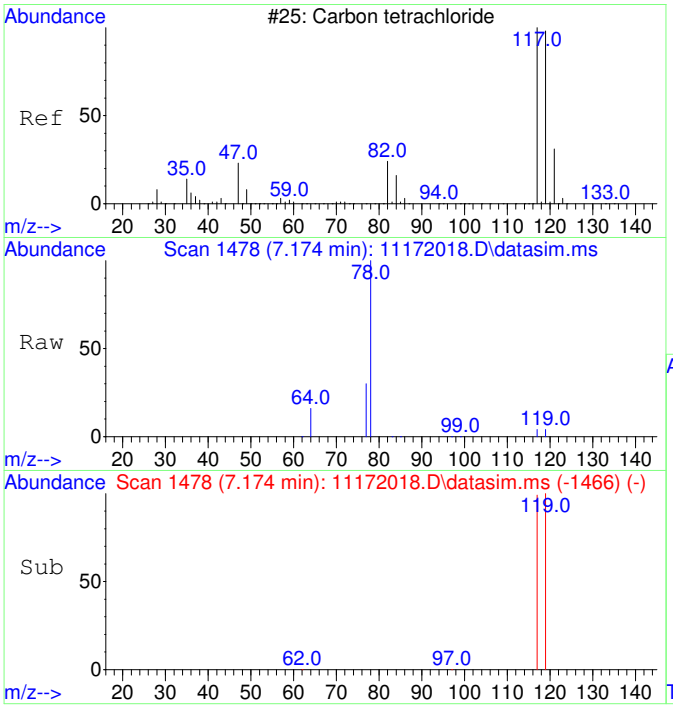


#7
1,1,1-Trichloroethane
Concen: 31.20 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 97 Resp: 1155

Ion	Ratio	Lower	Upper
97	100		
99	62.3	34.6	94.6
117	12.9	0.0	43.2

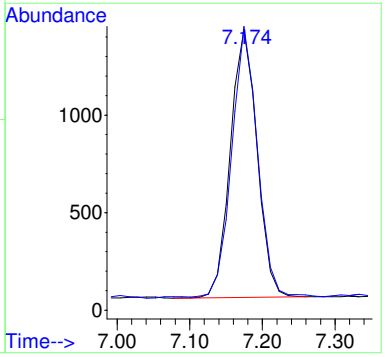


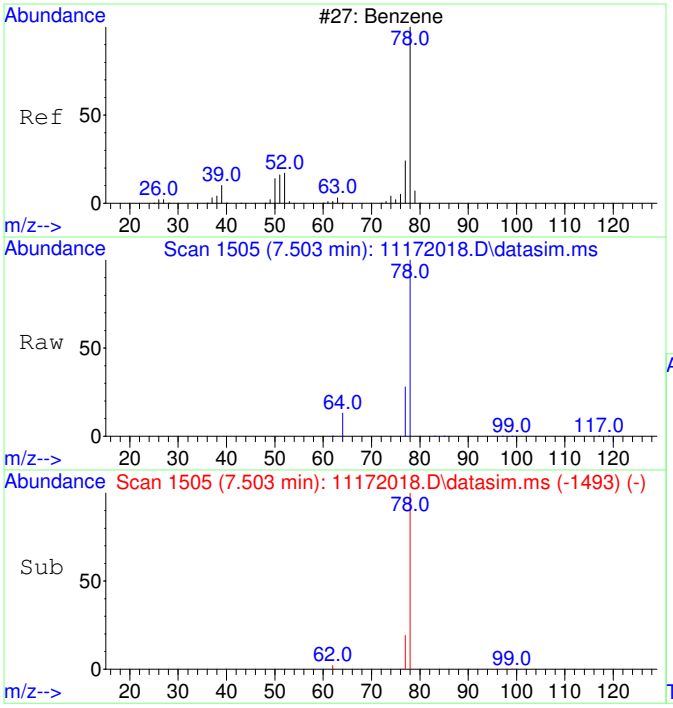


#8
Carbon tetrachloride
Concen: 100.30 ug/L
RT: 7.174 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:117 Resp: 3495

Ion	Ratio	Lower	Upper
117	100		
119	97.6	66.4	126.4

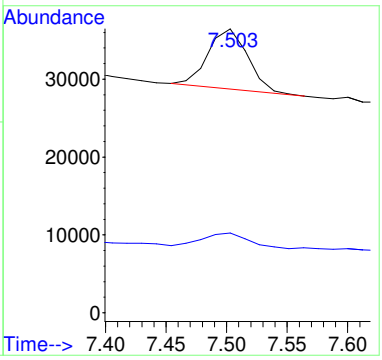


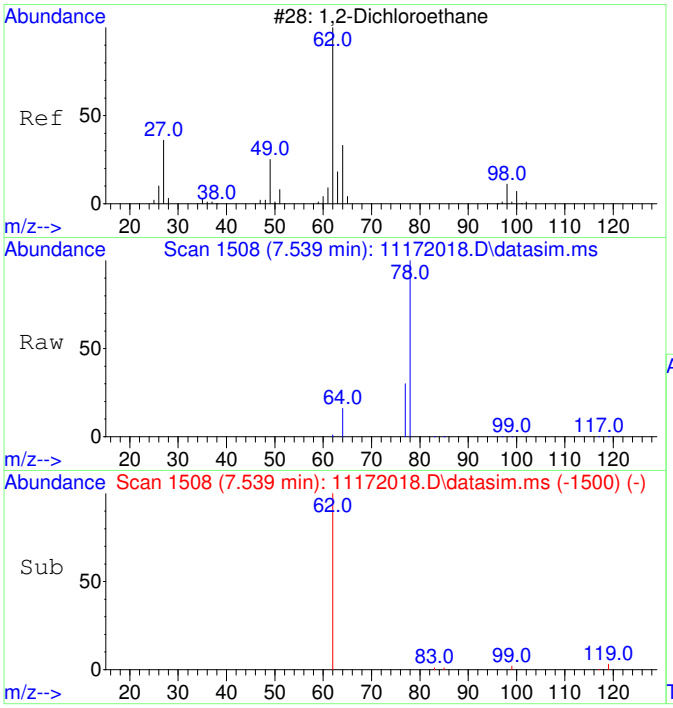


#9
Benzene
Concen: 182.55 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 78 Resp: 17041

Ion	Ratio	Lower	Upper
78	100		
77	36.2	0.0	53.2

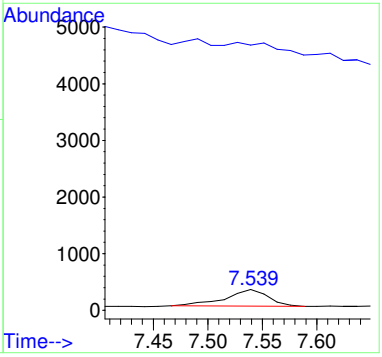


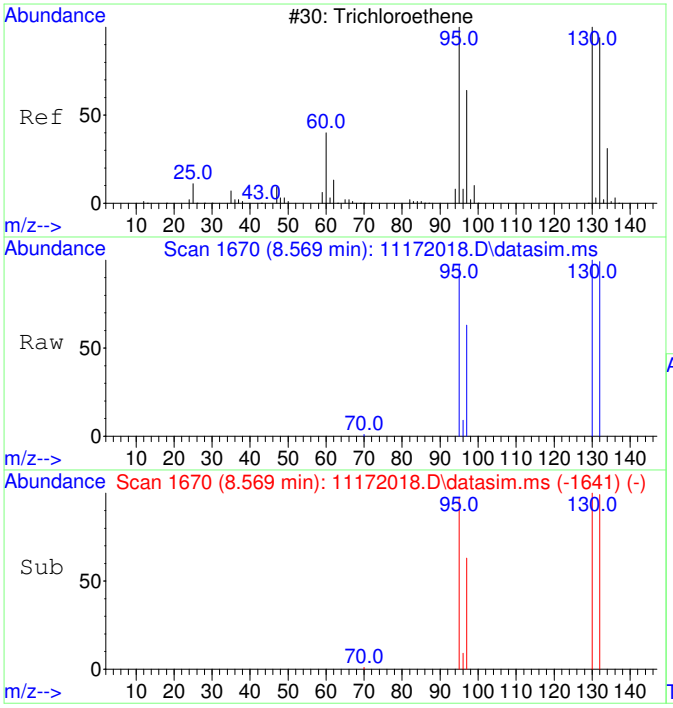


#10
1,2-Dichloroethane
Concen: 23.68 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 62 Resp: 789

Ion	Ratio	Lower	Upper
62	100		
64	149.7	2.3	62.3#

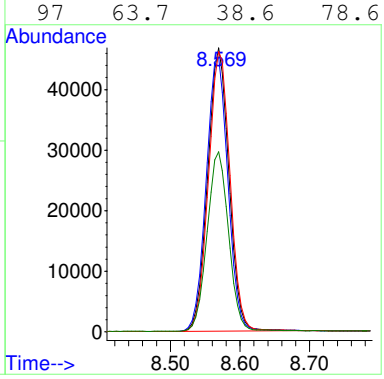


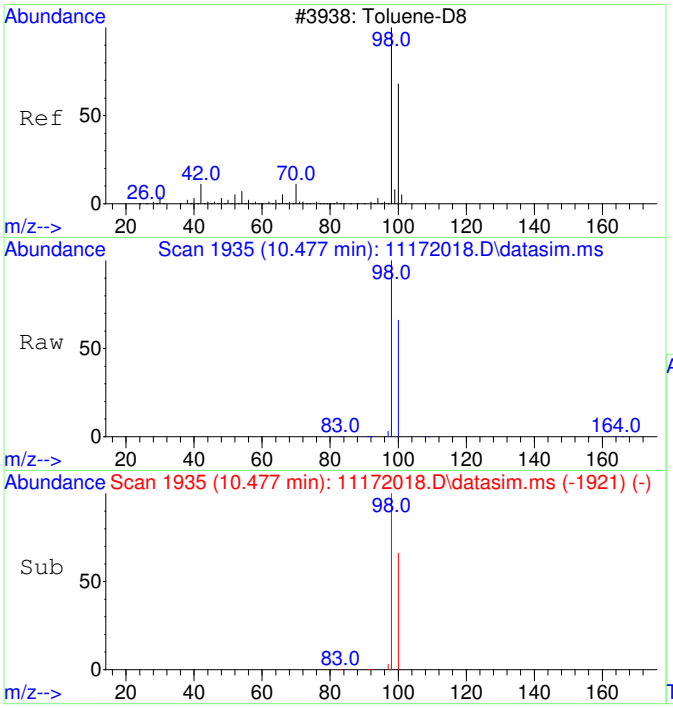


#11
Trichloroethene
Concen: 3536.71 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:130 Resp: 99406

Ion	Ratio	Lower	Upper
130	100		
95	98.6	60.7	120.7
132	99.8	76.0	116.0
97	63.7	38.6	78.6

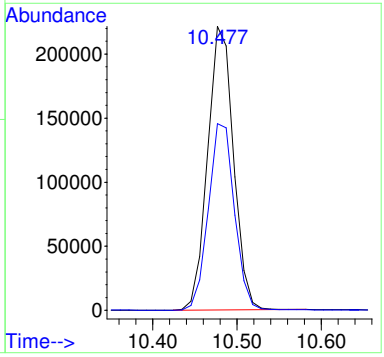


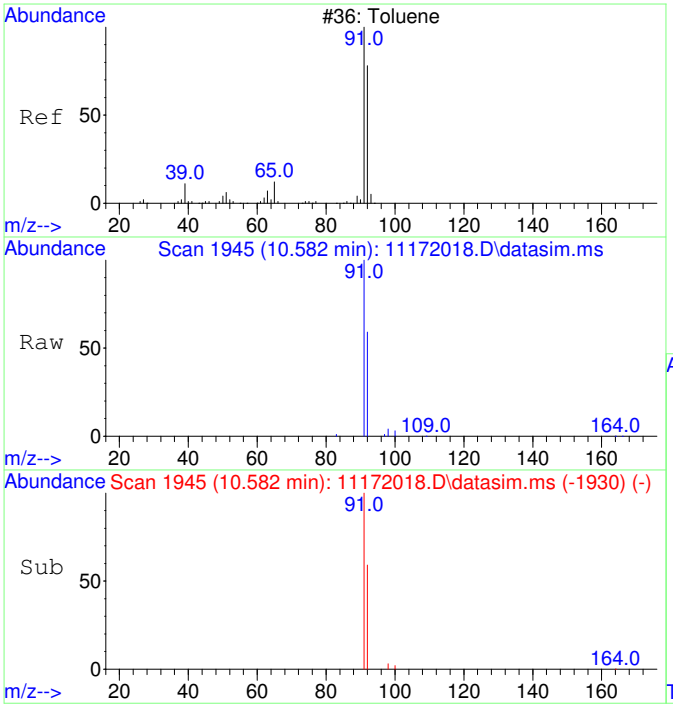


#12
Toluene-d8
Concen: 4393.78 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 98 Resp: 472582

Ion	Ratio	Lower	Upper
98	100		
100	66.3	37.1	97.1

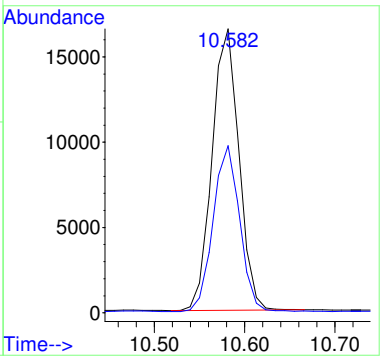


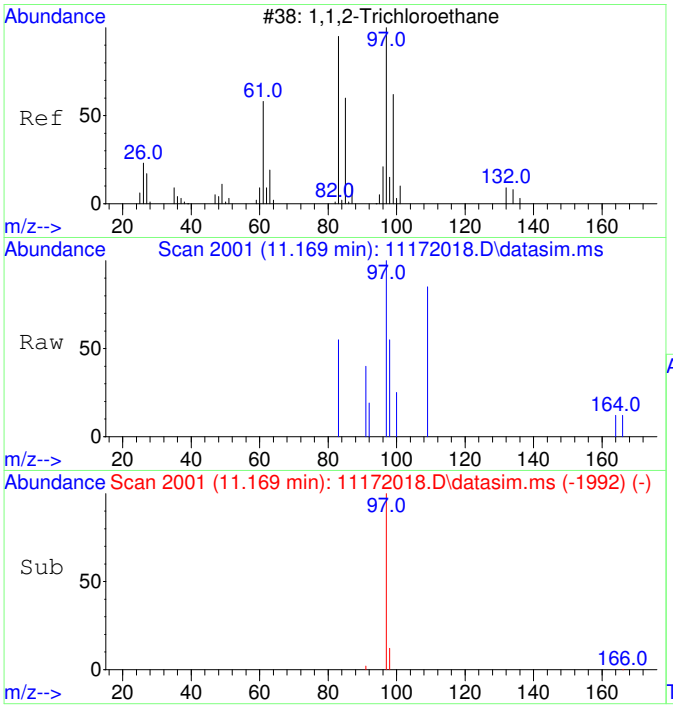


#13
Toluene
Concen: 249.18 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 34169

Ion	Ratio	Lower	Upper
91	100		
92	58.2	29.9	89.9

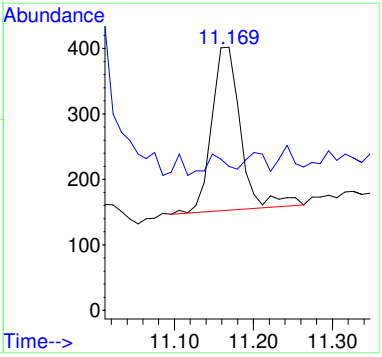


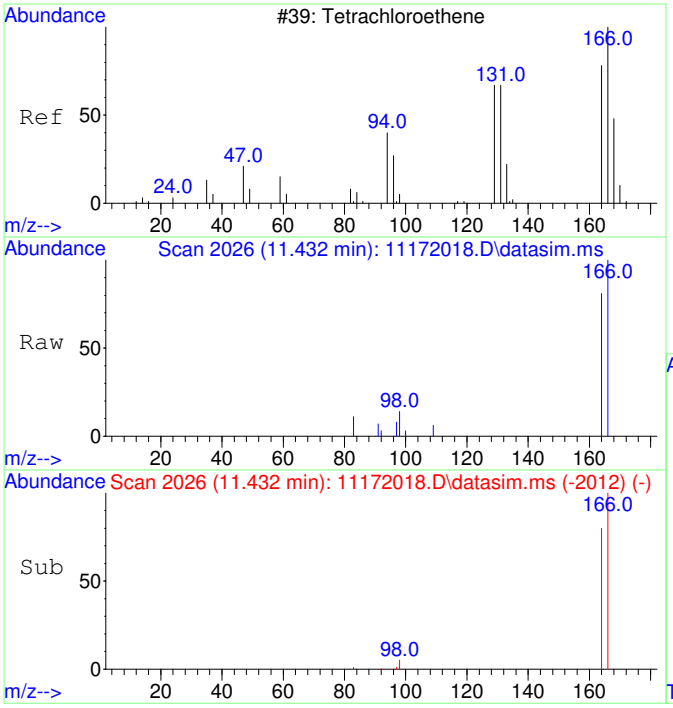


#14
1,1,2-Trichloroethane
Concen: 21.32 ug/L
RT: 11.169 min Scan# 2001
Delta R.T. -0.053 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 97 Resp: 637

Ion	Ratio	Lower	Upper
97	100		
83	0.0	51.2	111.2#

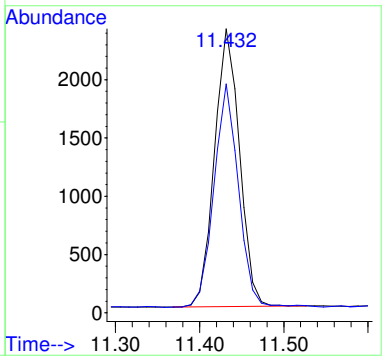


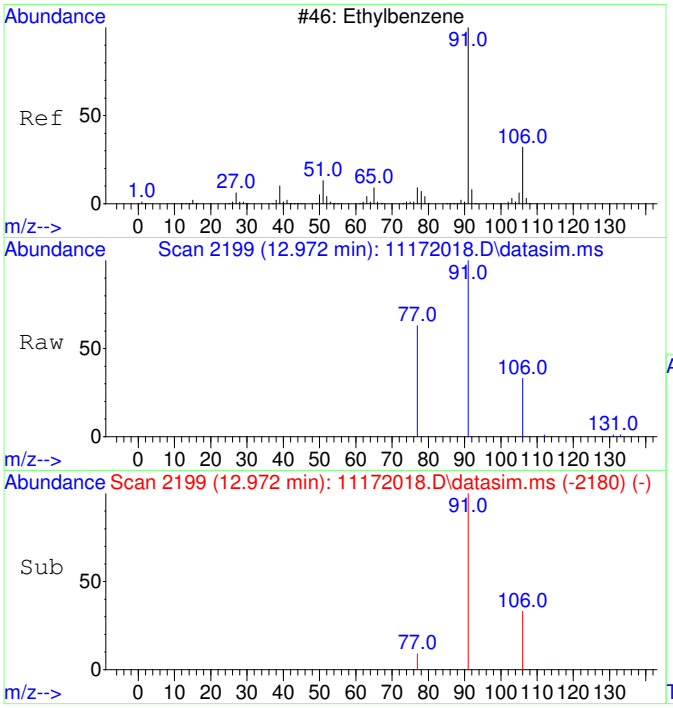


#15
Tetrachloroethene
Concen: 124.01 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:166 Resp: 4921

Ion	Ratio	Lower	Upper
166	100		
164	78.2	47.8	107.8

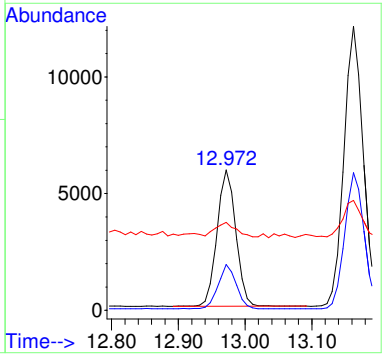


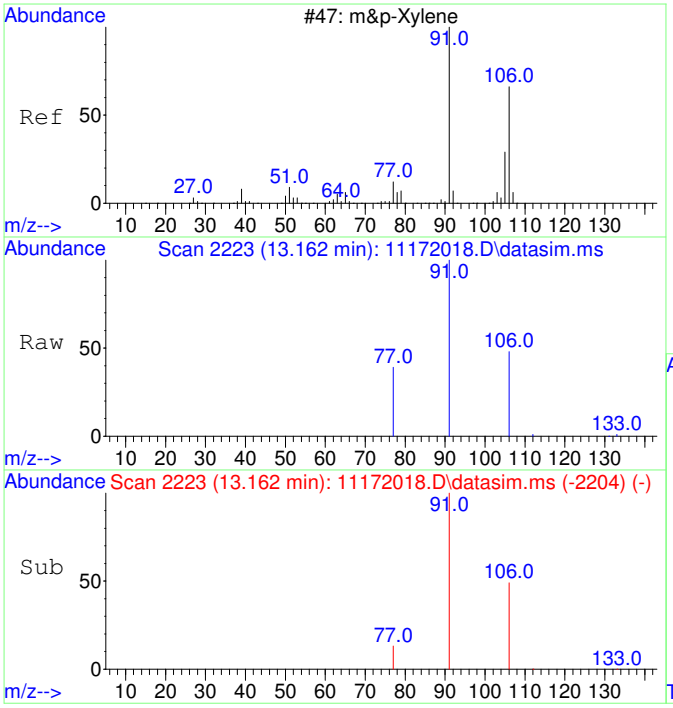


#18
Ethylbenzene
Concen: 68.10 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 11367

Ion	Ratio	Lower	Upper
91	100		
106	31.3	3.0	63.0
77	11.0	0.0	38.2

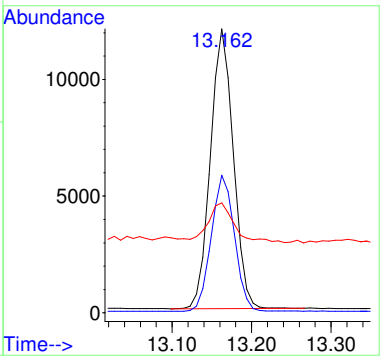


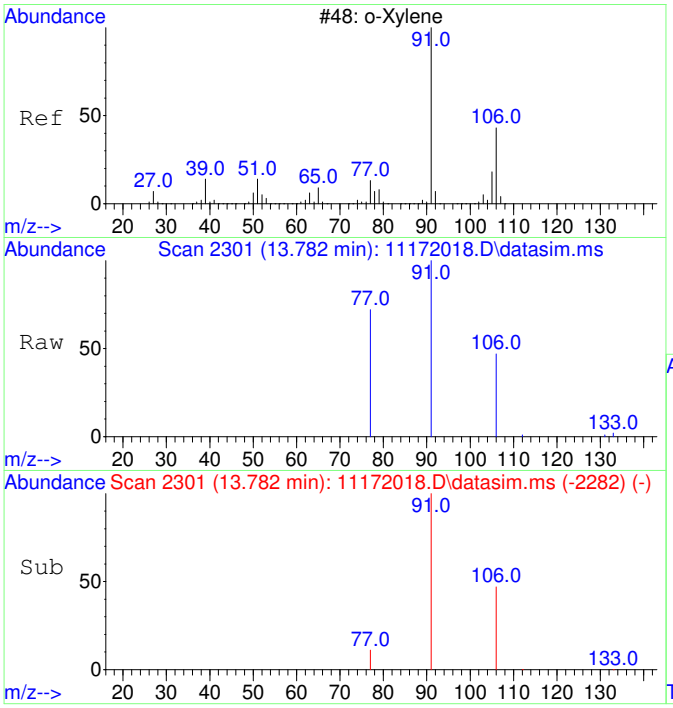


#19
m&p-Xylene
Concen: 183.82 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 23980

Ion	Ratio	Lower	Upper
91	100		
106	49.0	22.2	82.2
77	16.7	0.0	42.4

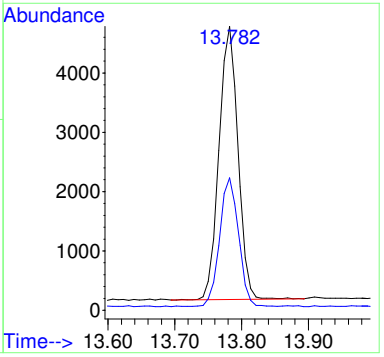


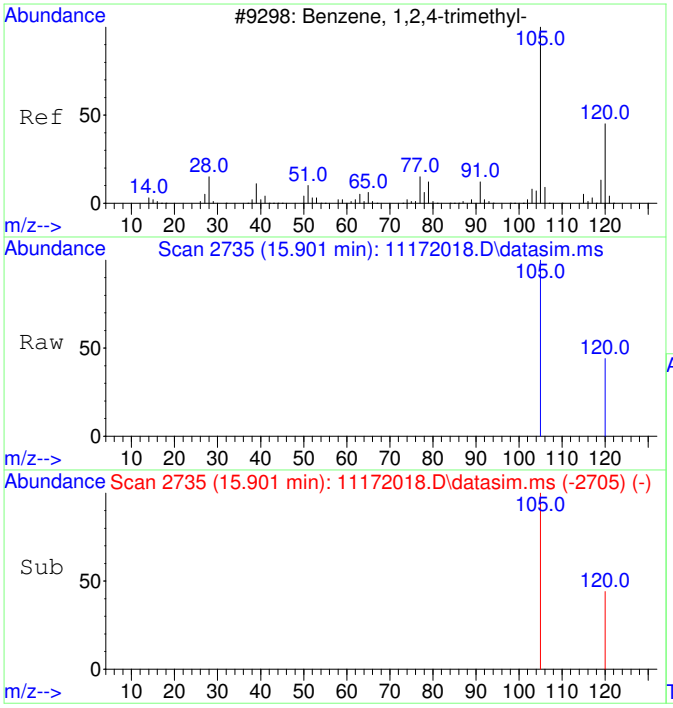


#20
o-Xylene
Concen: 65.16 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 9081

Ion	Ratio	Lower	Upper
91	100		
106	46.8	19.2	79.2

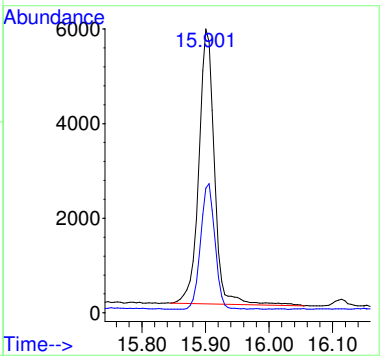


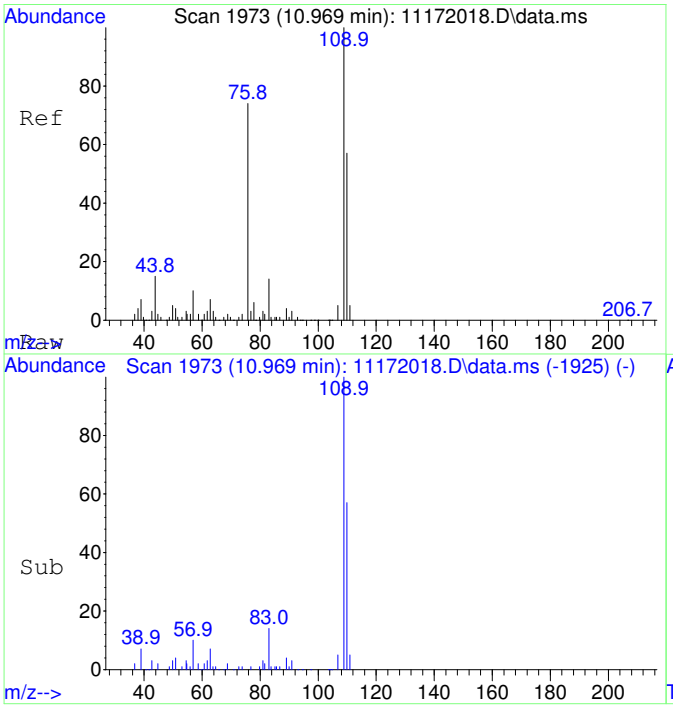


#23
1,2,4-Trimethylbenzene
Concen: 64.04 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:105 Resp: 9868

Ion	Ratio	Lower	Upper
105	100		
120	41.8	17.2	77.2

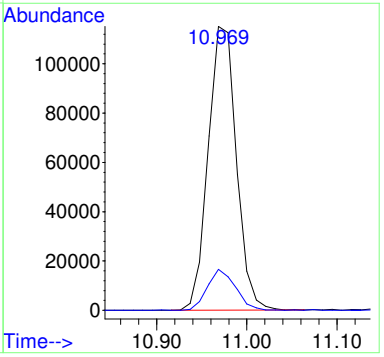


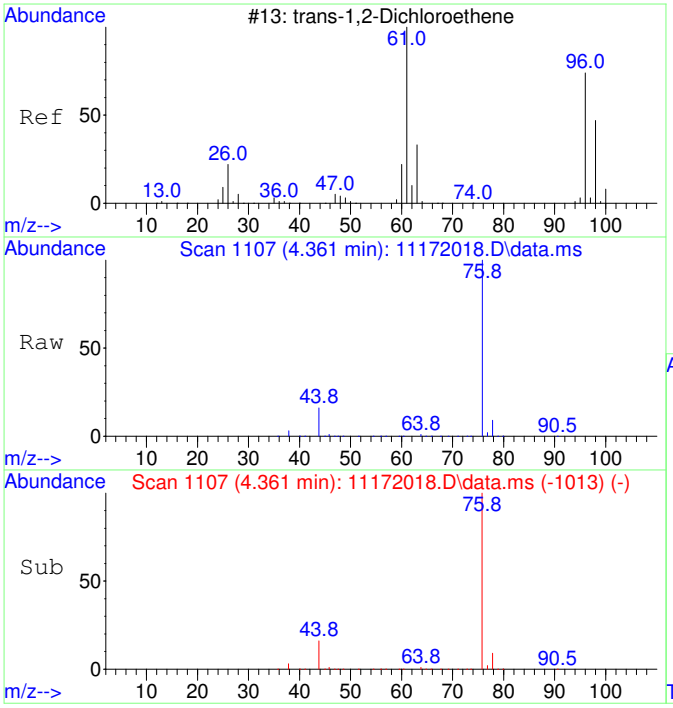


#25
2-Fluorotoluene SCAN
Concen: 4686.41 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:109 Resp: 251001

Ion	Ratio	Lower	Upper
109	100		
83	14.4	0.0	43.8

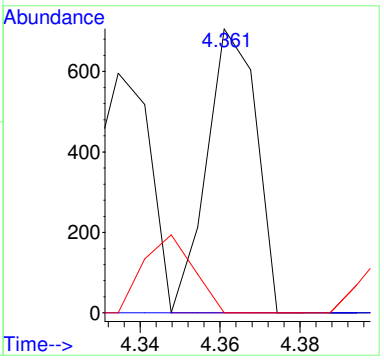


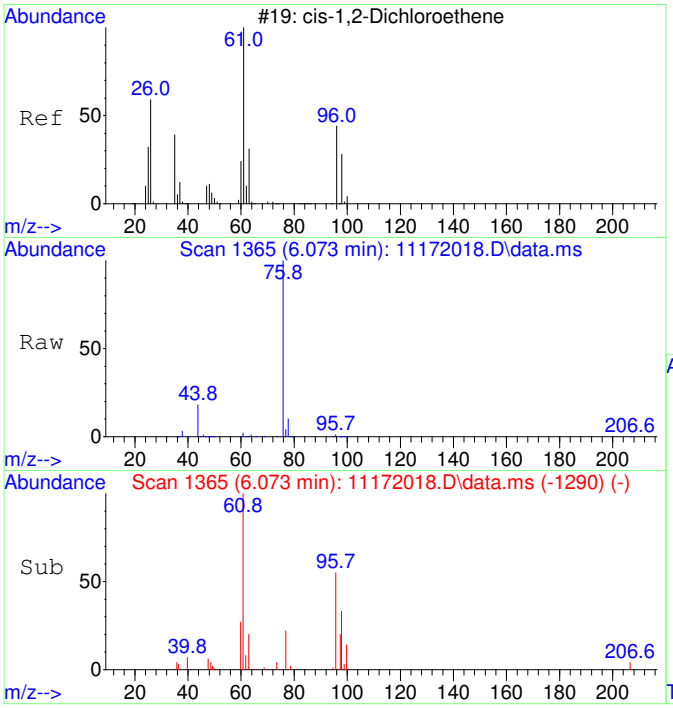


#27
trans-1,2-Dichloroethene SCAN
Concen: 43.05 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. 0.013 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 61 Resp: 606

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	27.9	20.5	80.5

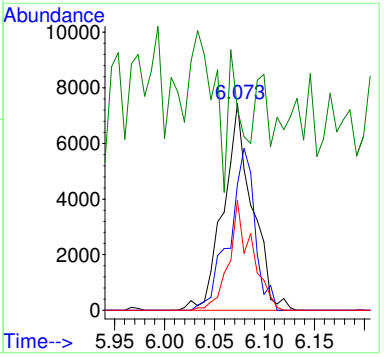


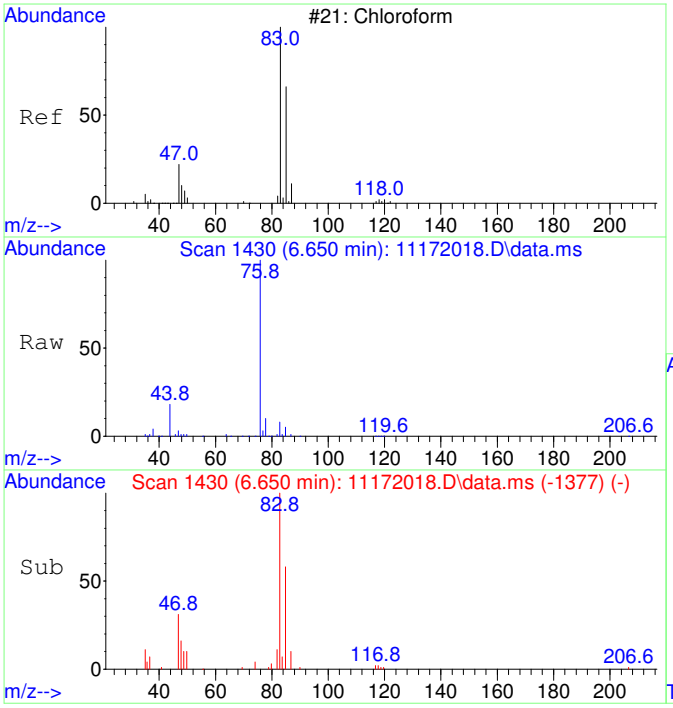


#29
cis-1,2-Dichloroethene SCAN
Concen: 855.02 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 61 Resp: 14922

Ion	Ratio	Lower	Upper
61	100		
96	69.9	39.9	99.9
98	42.4	13.5	73.5
64	22.3	4.5	64.5

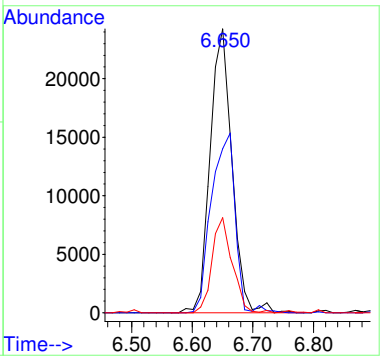


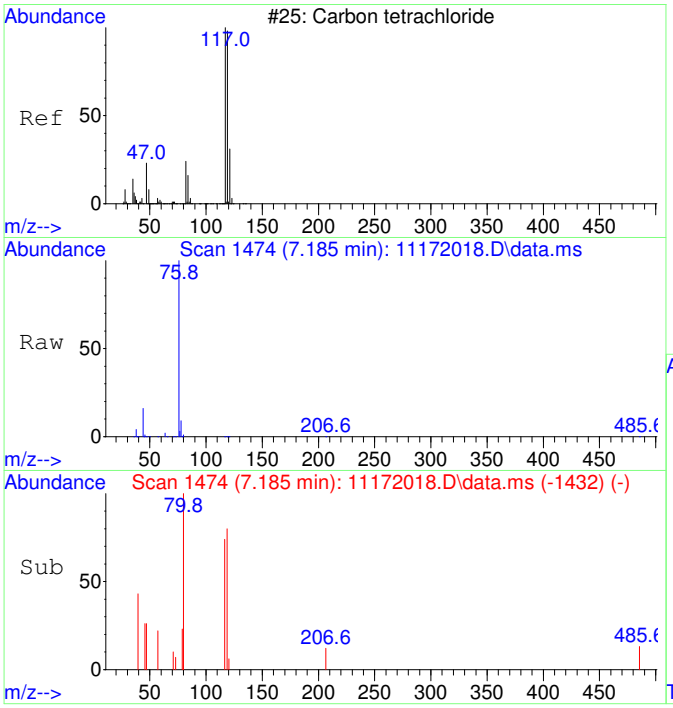


#30
Chloroform SCAN
Concen: 3226.77 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 83 Resp: 61081

Ion	Ratio	Lower	Upper
83	100		
85	67.0	34.6	94.6
47	31.0	0.0	53.4

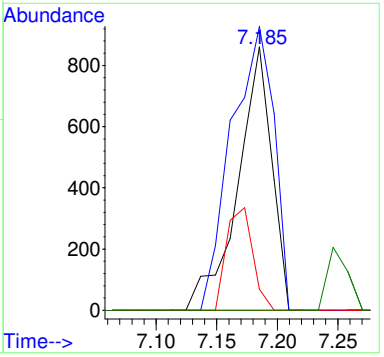


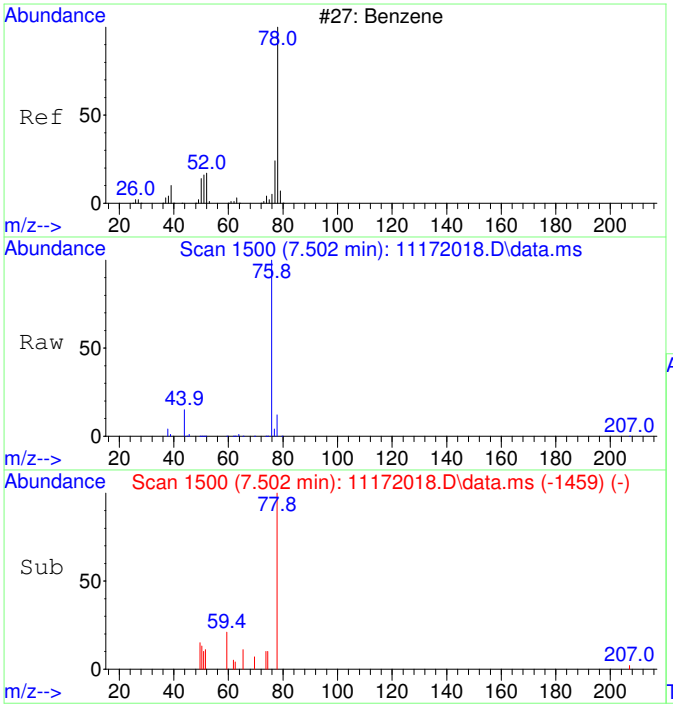


#32
Carbon tetrachloride SCAN
Concen: 93.59 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:117 Resp: 1684

Ion	Ratio	Lower	Upper
117	100		
119	134.4	75.5	135.5
121	30.2	0.0	58.8
82	0.0	0.0	59.2

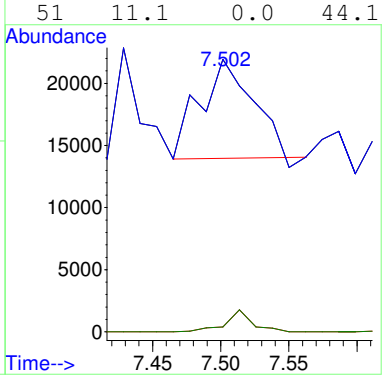


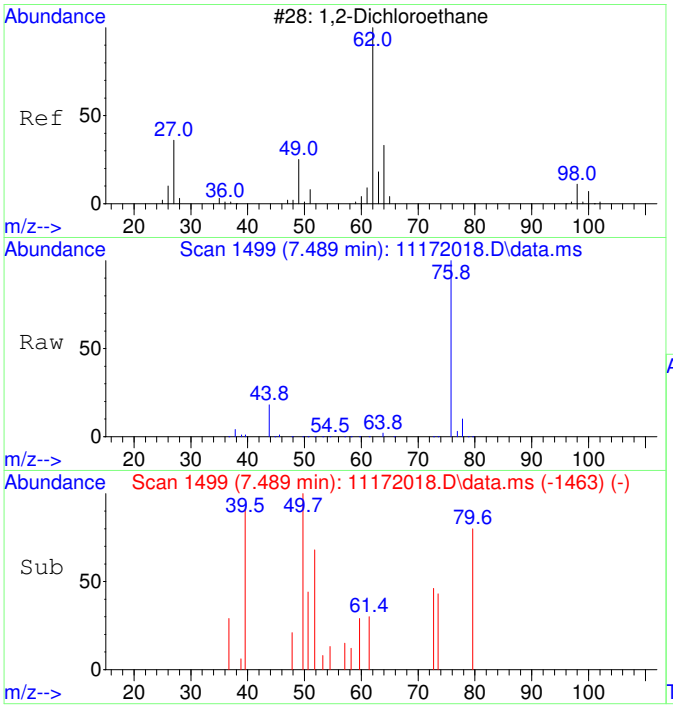


#33
Benzene SCAN
Concen: 450.19 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 78 Resp: 21382

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	11.1	0.0	47.9
51	11.1	0.0	44.1

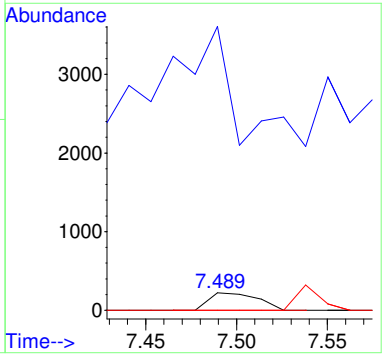


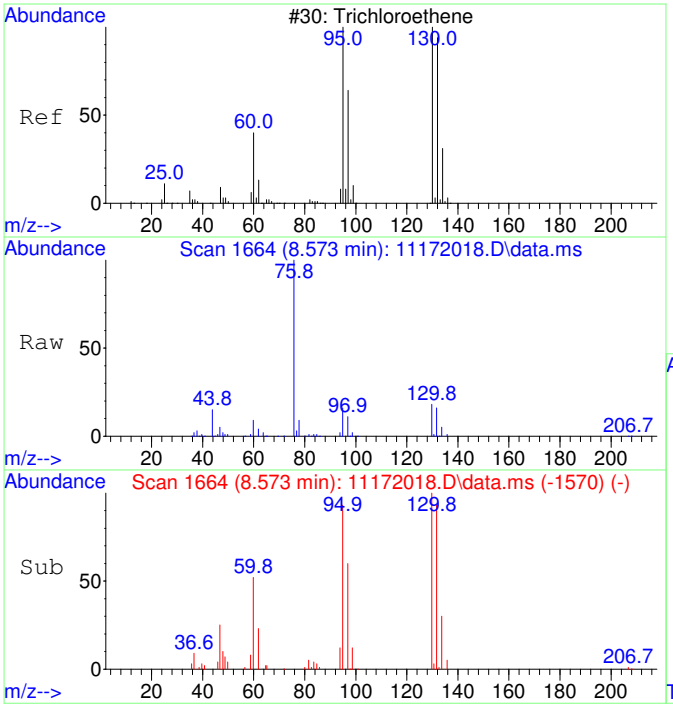


#34
1,2-Dichloroethane SCAN
Concen: 23.72 ug/L
RT: 7.489 min Scan# 1499
Delta R.T. -0.061 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 62 Resp: 416

Ion	Ratio	Lower	Upper
62	100		
64	701.9	5.2	65.2#
49	0.0	3.9	63.9#

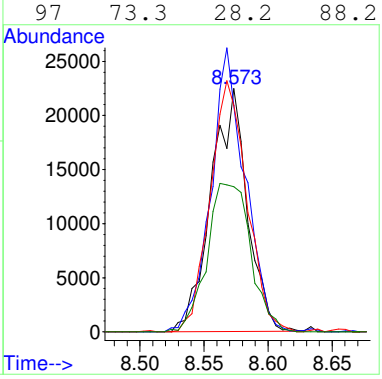


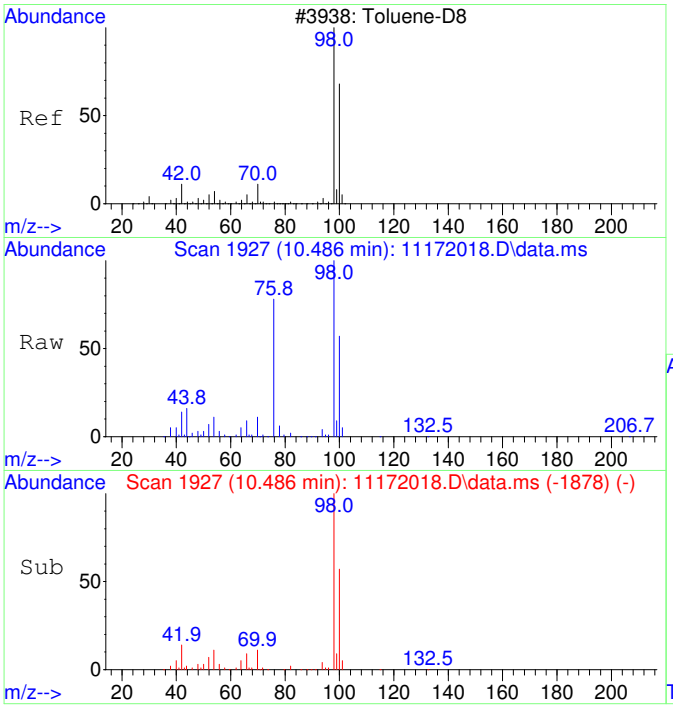


#35
Trichloroethene SCAN
Concen: 3386.02 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:130 Resp: 44195

Ion	Ratio	Lower	Upper
130	100		
95	109.7	60.5	120.5
132	104.7	59.6	119.6
97	73.3	28.2	88.2

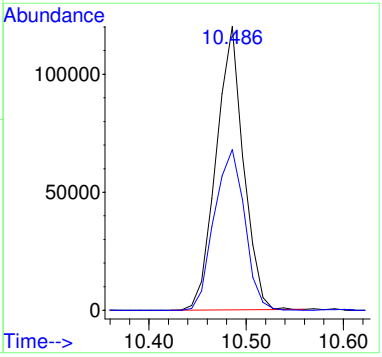


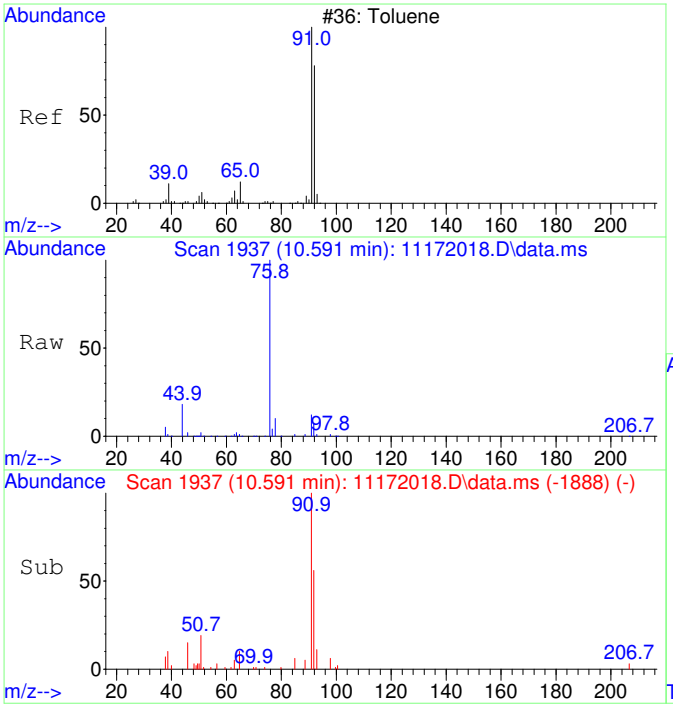


#36
Toluene-d8 SCAN
Concen: 4473.17 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 98 Resp: 234302

Ion	Ratio	Lower	Upper
98	100		
100	63.0	40.0	100.0

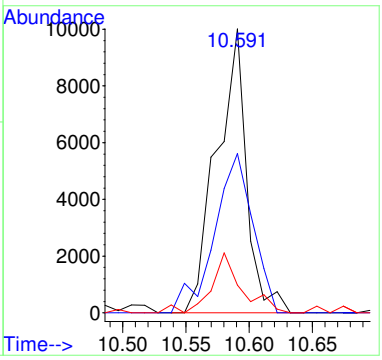


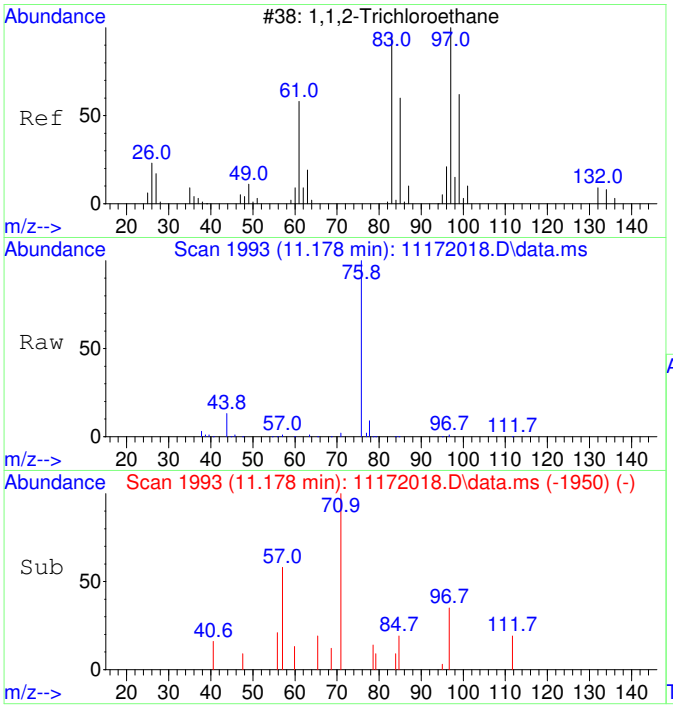


#37
Toluene SCAN
Concen: 246.77 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 16553

Ion	Ratio	Lower	Upper
91	100		
92	71.8	28.3	88.3
65	21.4	0.0	41.0

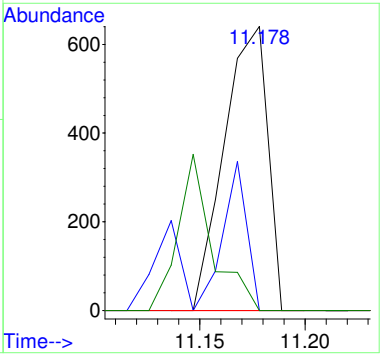


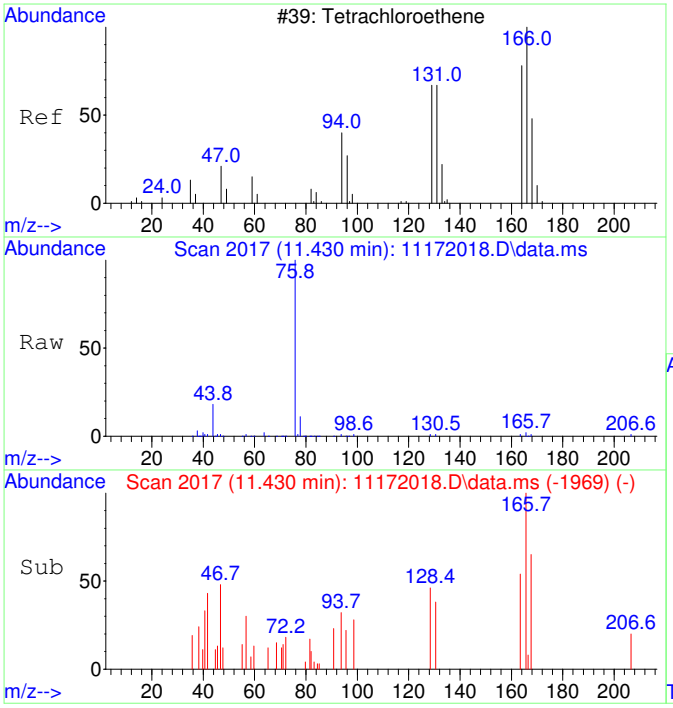


#38
1,1,2-Trichloroethane SCAN
Concen: 61.04 ug/L
RT: 11.178 min Scan# 1993
Delta R.T. -0.053 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 97 Resp: 919

Ion	Ratio	Lower	Upper
97	100		
83	29.2	57.7	117.7#
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

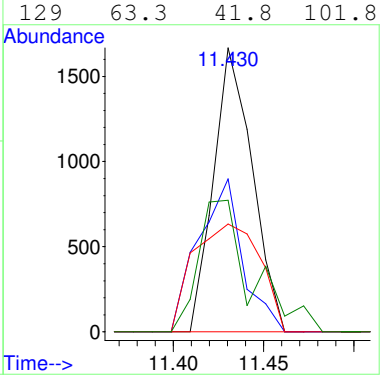


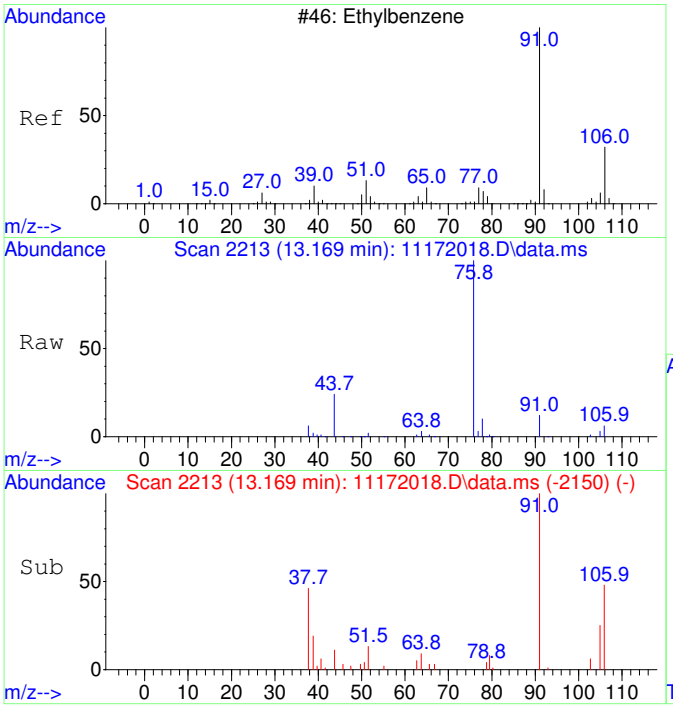


#39
Tetrachloroethene SCAN
Concen: 154.88 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:166 Resp: 2496

Ion	Ratio	Lower	Upper
166	100		
164	61.1	50.9	110.9
131	65.4	38.7	98.7
129	63.3	41.8	101.8

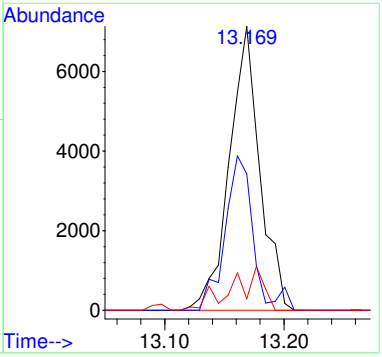


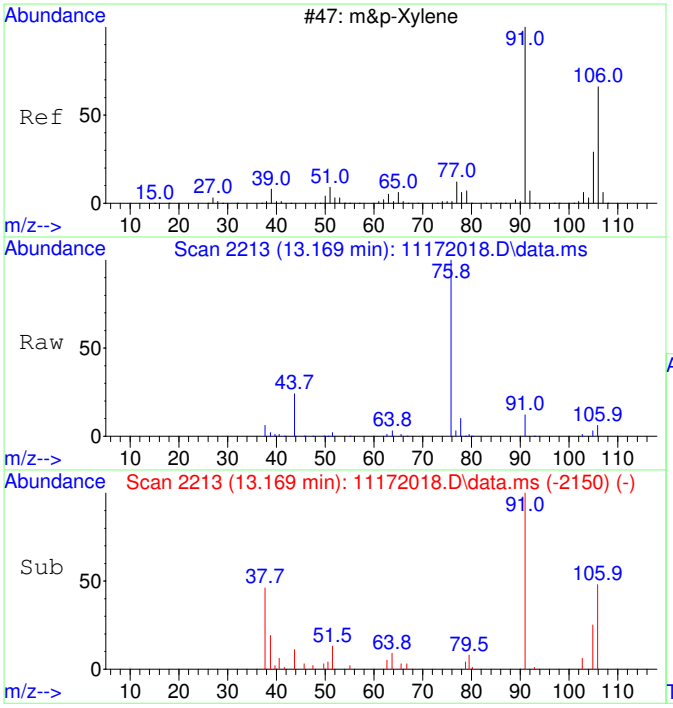


#42
Ethylbenzene SCAN
Concen: 103.96 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 12705

Ion	Ratio	Lower	Upper
91	100		
106	50.5	23.1	83.1
51	15.7	0.0	40.1

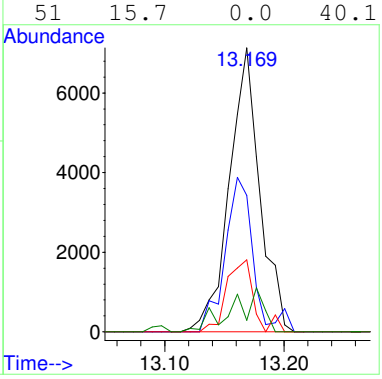


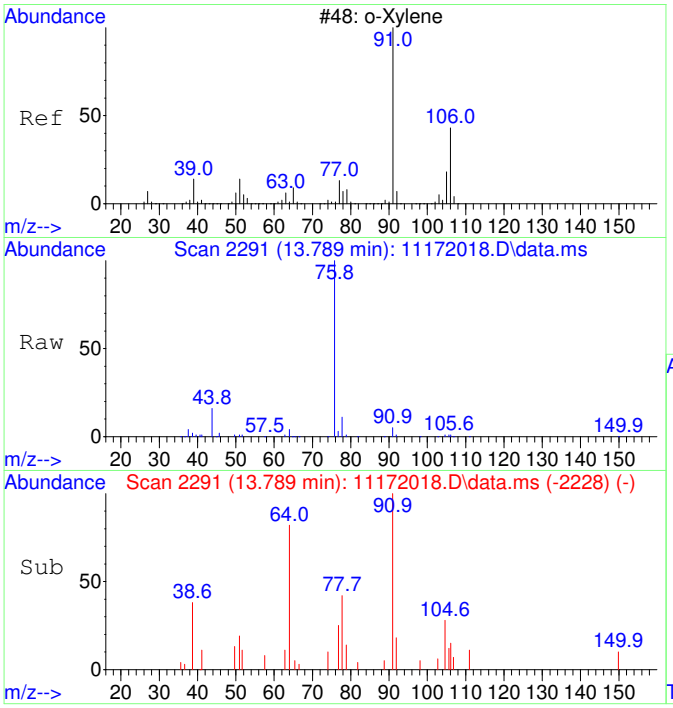


#43
m&p-Xylene SCAN
Concen: 103.96 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 12705

Ion	Ratio	Lower	Upper
91	100		
106	50.5	23.1	83.1
105	22.8	0.0	54.7
51	15.7	0.0	40.1

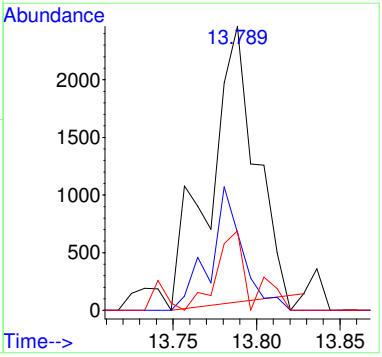


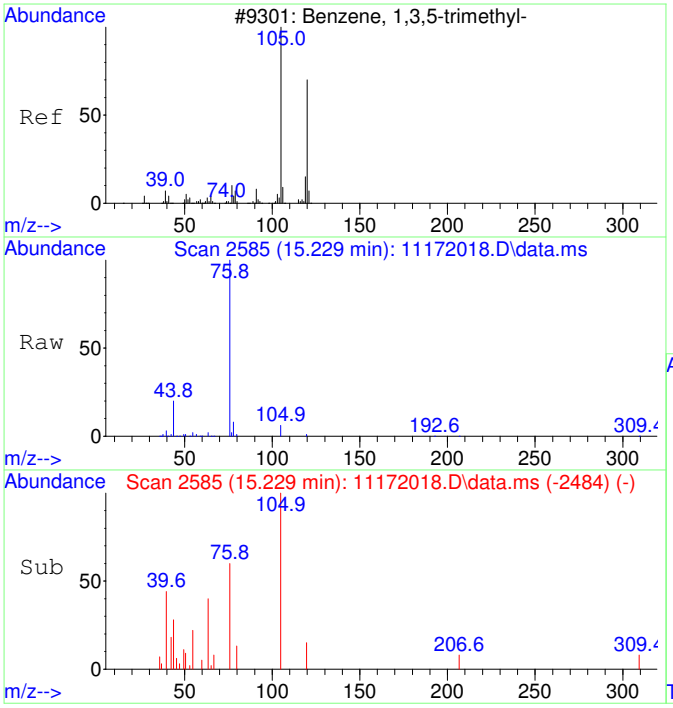


#44
o-Xylene SCAN
Concen: 69.77 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion: 91 Resp: 4564

Ion	Ratio	Lower	Upper
91	100		
106	32.0	18.0	78.0
105	21.2	0.0	56.6

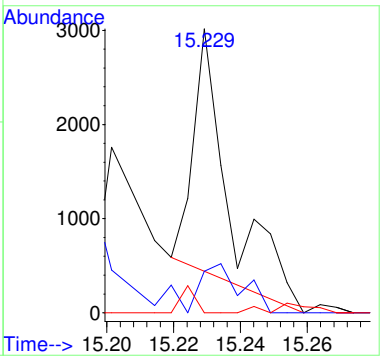


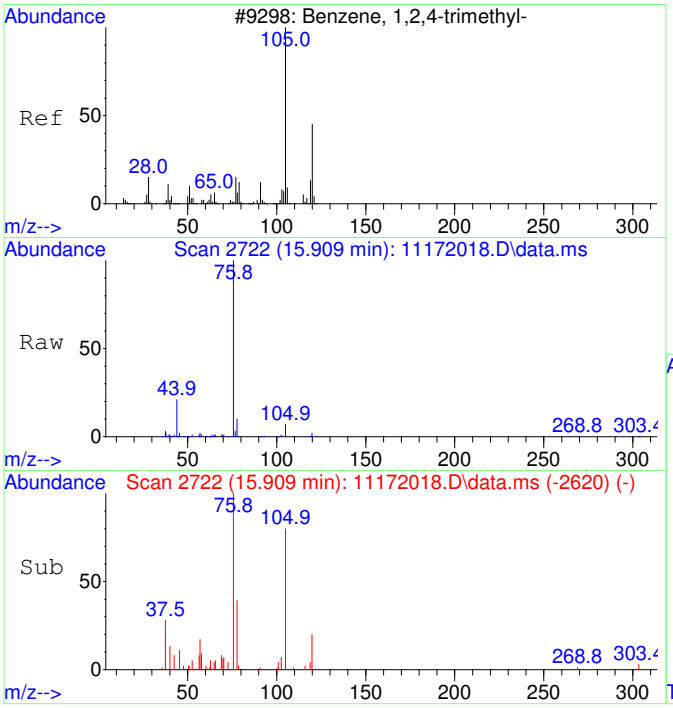


#46
1,3,5-Trimethylbenzene SCAN
Concen: 26.18 ug/L
RT: 15.229 min Scan# 2585
Delta R.T. -0.114 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:105 Resp: 1805

Ion	Ratio	Lower	Upper
105	100		
120	24.7	18.3	78.3
119	4.8	0.0	43.1

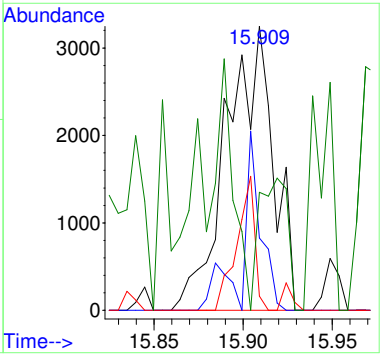




#47
1,2,4-Trimethylbenzene SCAN
Concen: 84.46 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.005 min
Lab File: 11172018.D
Acq: 17 Nov 2020 14:36

Tgt Ion:105 Resp: 5958

Ion	Ratio	Lower	Upper
105	100		
120	13.5	16.9	76.9#
119	18.2	0.0	41.9
77	0.0	0.0	42.3



2011017-08

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172019.D
Acq On : 17 Nov 2020 15:00
InstName : AG5975C
Operator : TD
Sample : 2011017-08
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 18 06:16:08 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

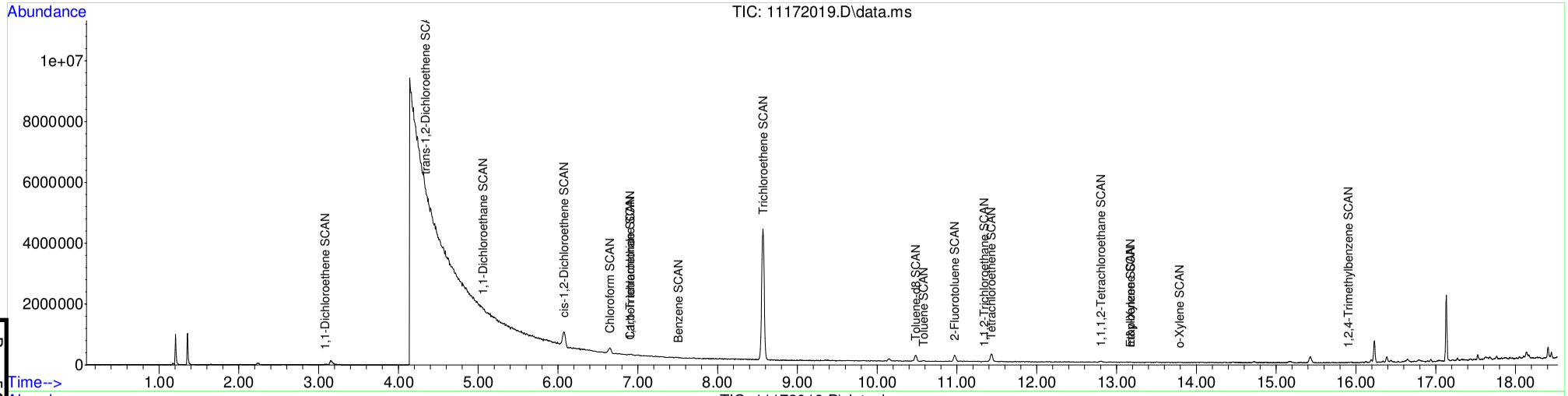
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	344406	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	300931	4463.45 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 89.27%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	22631	1645.57 ug/L	87
3] trans-1,2-Dichloroethene	4.336	61	41207	2593.36 ug/L	99
4] 1,1-Dichloroethane	5.066	63	25578	1293.17 ug/L	98
5] cis-1,2-Dichloroethene	6.074	61	746848	35771.30 ug/L OC	100
6] Chloroform	6.639	83	307185	14374.69 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	27681	1192.74 ug/L	99
8] Carbon tetrachloride	7.175	117	2974	136.15 ug/L	95
9] Benzene	7.503	78	12168	207.94 ug/L	58
10] 1,2-Dichloroethane	7.540	62	718	34.37 ug/L #	42
11] Trichloroethene	8.569	130	3288912	186673.23 ug/L OC	93
13] Toluene	10.582	91	34195	397.82 ug/L	98
15] Tetrachloroethene	11.432	166	185226	7446.14 ug/L	99
18] Ethylbenzene	12.972	91	5802	55.45 ug/L	94
19] m&p-Xylene	13.162	91	10481	128.17 ug/L	95
20] o-Xylene	13.782	91	8551	97.88 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.873	83	1835	47.39 ug/L #	28
22] 1,3,5-Trimethylbenzene	15.350	105	2104	22.63 ug/L	92
23] 1,2,4-Trimethylbenzene	15.901	105	8875	91.89 ug/L	88
25) 2-Fluorotoluene SCAN	10.969	109	168980	5033.18 ug/L	89
26) 1,1-Dichloroethene SCAN	3.081	61	3758	527.07 ug/L #	35
27) trans-1,2-Dichloroethe...	4.335	61	25474	2887.28 ug/L #	66
28) 1,1-Dichloroethane SCAN	5.065	63	15731	1540.63 ug/L	89
29) cis-1,2-Dichloroethene...	6.073	61	403888	36919.04 ug/L #	86
30) Chloroform SCAN	6.650	83	160911	13560.94 ug/L	92
31) 1,1,1-Trichloroethane ...	6.906	97	14478	1338.94 ug/L	90
32) Carbon tetrachloride SCAN	6.906	117	2106	186.72 ug/L	80
33) Benzene SCAN	7.502	78	21509	722.45 ug/L	95
35) Trichloroethene SCAN	8.568	130	1569756	191863.11 ug/L	86
36) Toluene-d8 SCAN	10.486	98	153891	4687.00 ug/L	91
37) Toluene SCAN	10.580	91	17862	424.80 ug/L	86
38) 1,1,2-Trichloroethane ...	11.336	97	356	37.72 ug/L #	50
39) Tetrachloroethene SCAN	11.430	166	80942	8012.49 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.804	131	225	21.16 ug/L #	1
42) Ethylbenzene SCAN	13.169	91	6130	80.02 ug/L	89
43) m&p-Xylene SCAN	13.169	91	6130	80.02 ug/L	85
44) o-Xylene SCAN	13.789	91	5388	131.40 ug/L	80
47) 1,2,4-Trimethylbenzene...	15.899	105	3883	87.81 ug/L #	40

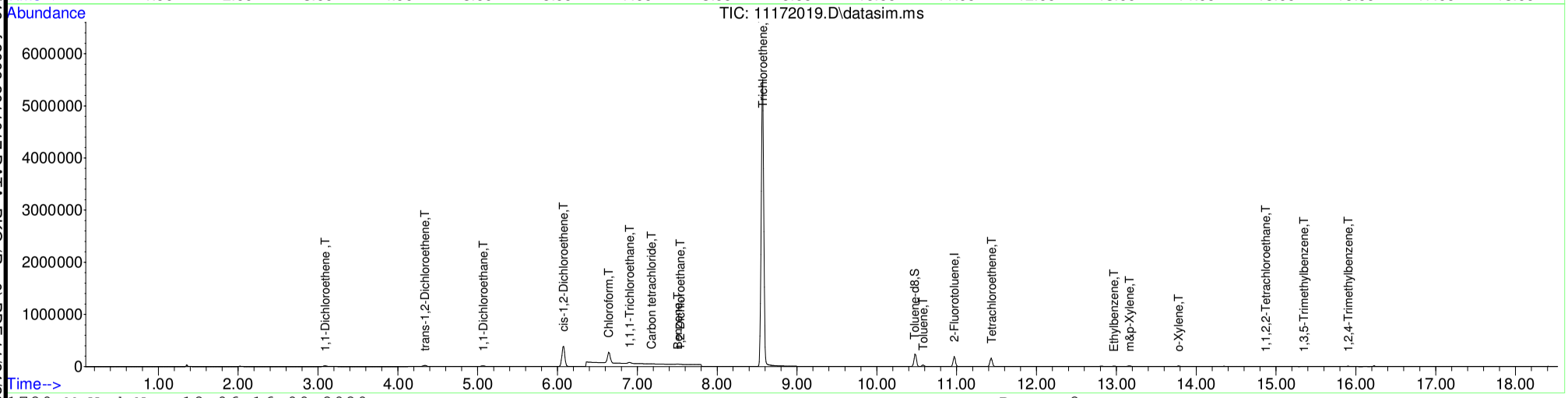
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172019.D
Acq On : 17 Nov 2020 15:00
InstName : AG5975C
Operator : TD
Sample : 2011017-08
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 18 06:16:08 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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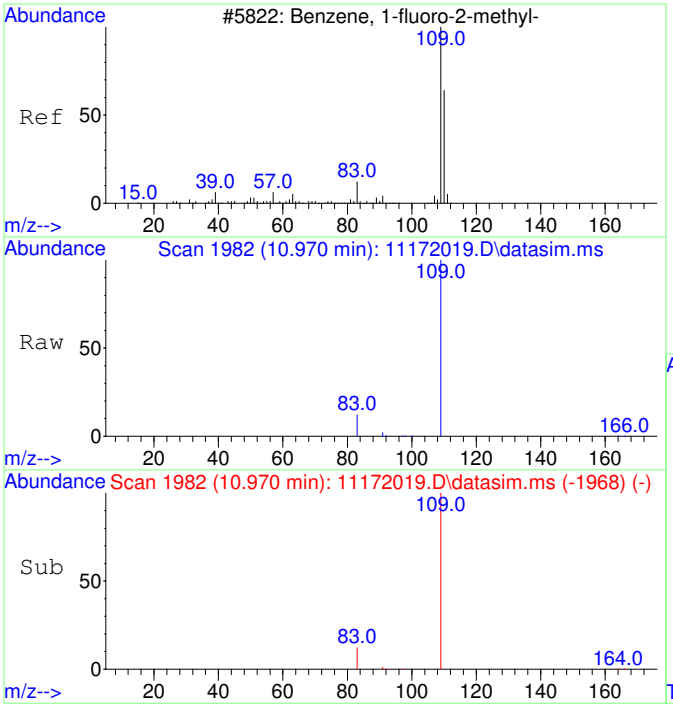
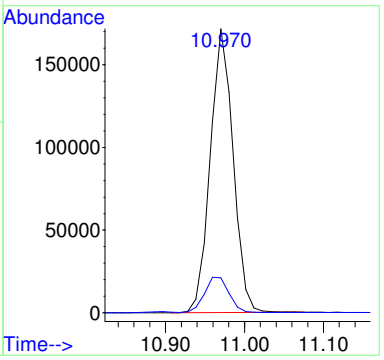
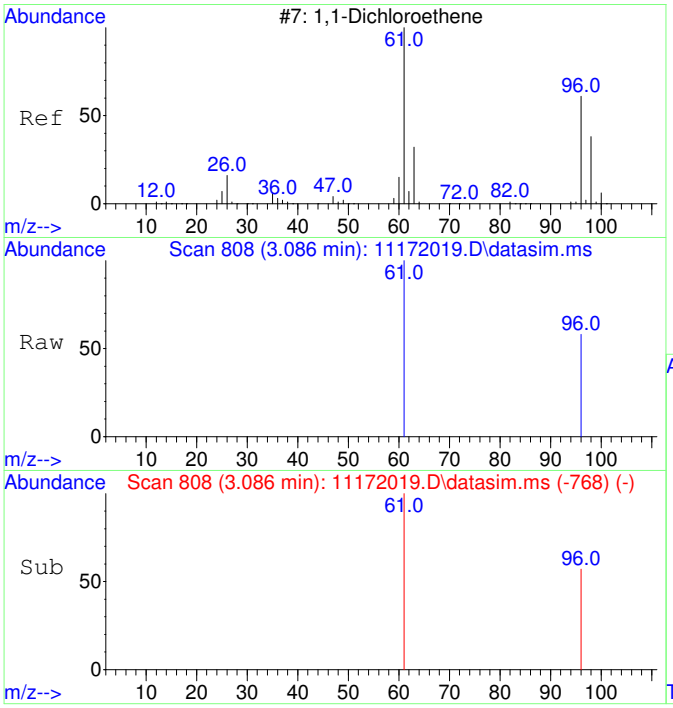


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:109 Resp: 344406

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	42.3

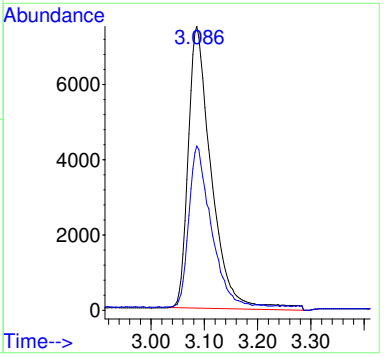




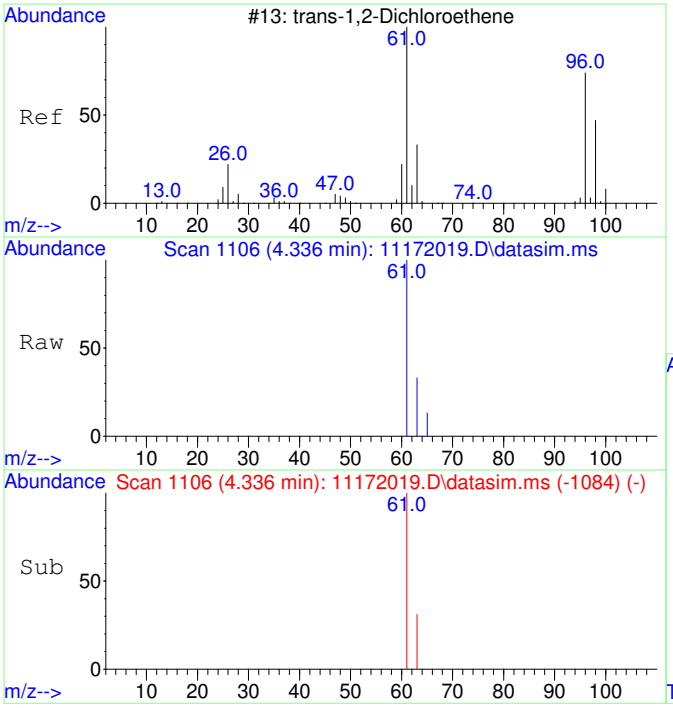
#2
1,1-Dichloroethene
Concen: 1645.57 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 61 Resp: 22631

Ion	Ratio	Lower	Upper
61	100		
96	56.5	37.2	97.2



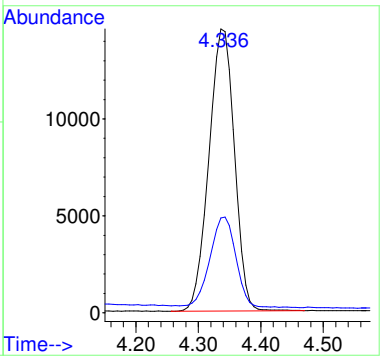
Before MI:
IMPROPER
BASELINE

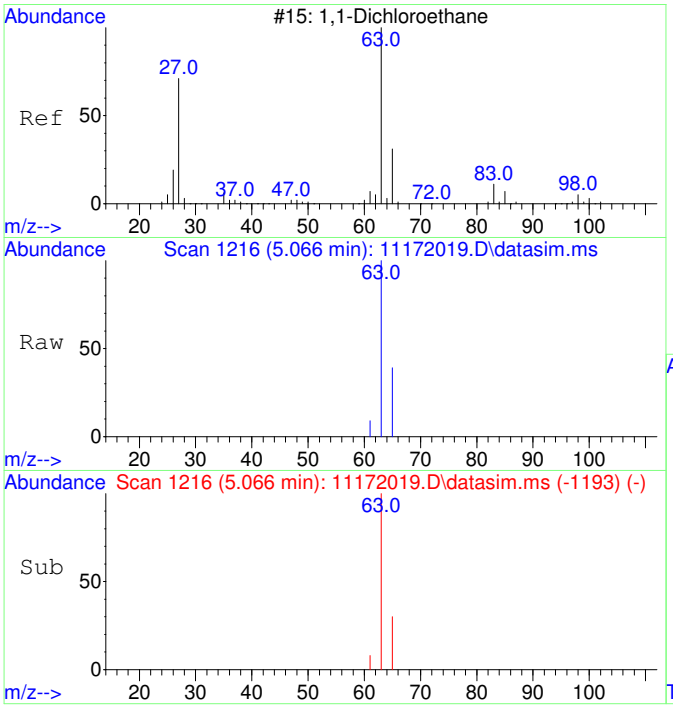


#3
trans-1,2-Dichloroethene
Concen: 2593.36 ug/L
RT: 4.336 min Scan# 1106
Delta R.T. -0.007 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 61 Resp: 41207

Ion	Ratio	Lower	Upper
61	100		
63	32.9	2.4	62.4

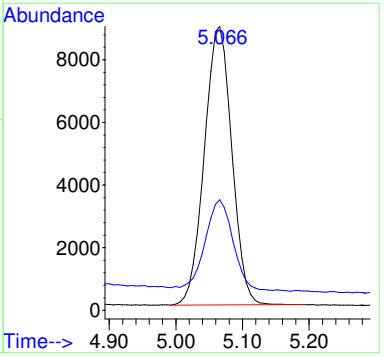


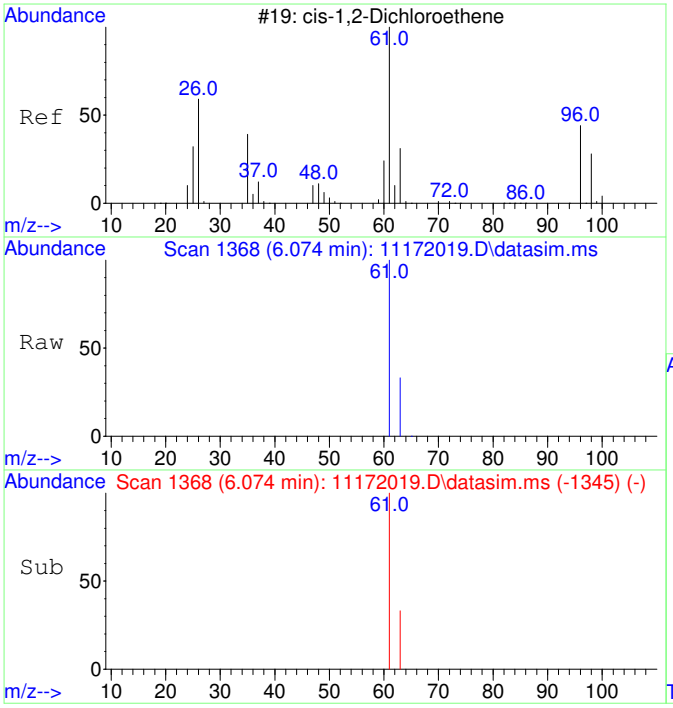


#4
1,1-Dichloroethane
Concen: 1293.17 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 63 Resp: 25578

Ion	Ratio	Lower	Upper
63	100		
65	33.1	1.8	61.8

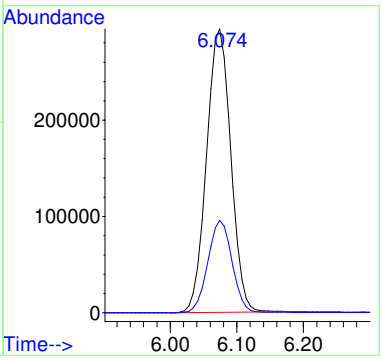


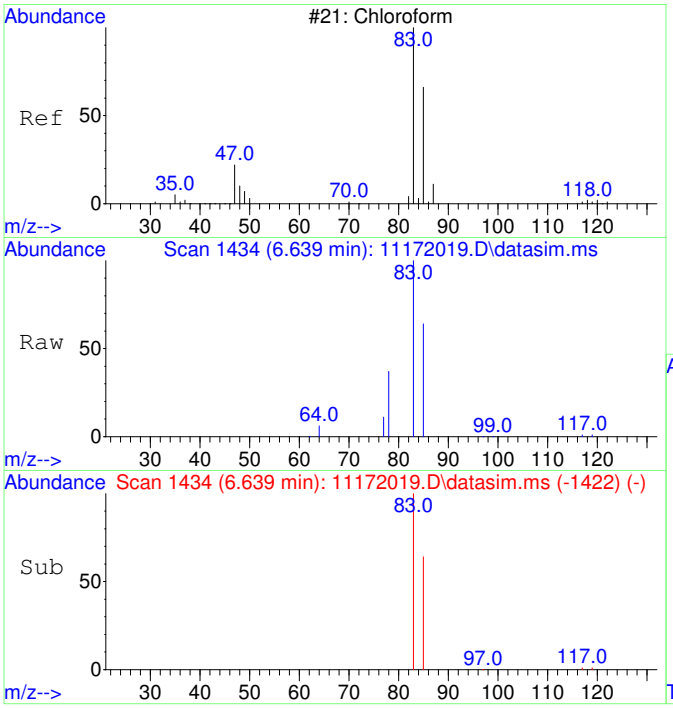


#5
cis-1,2-Dichloroethene
Concen: 35771.30 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 61 Resp: 746848

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.5	62.5

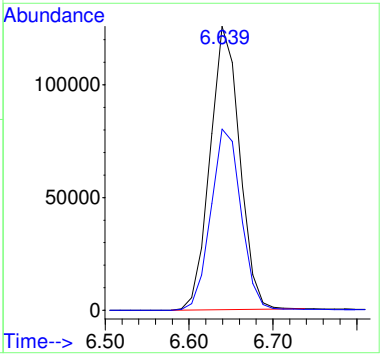


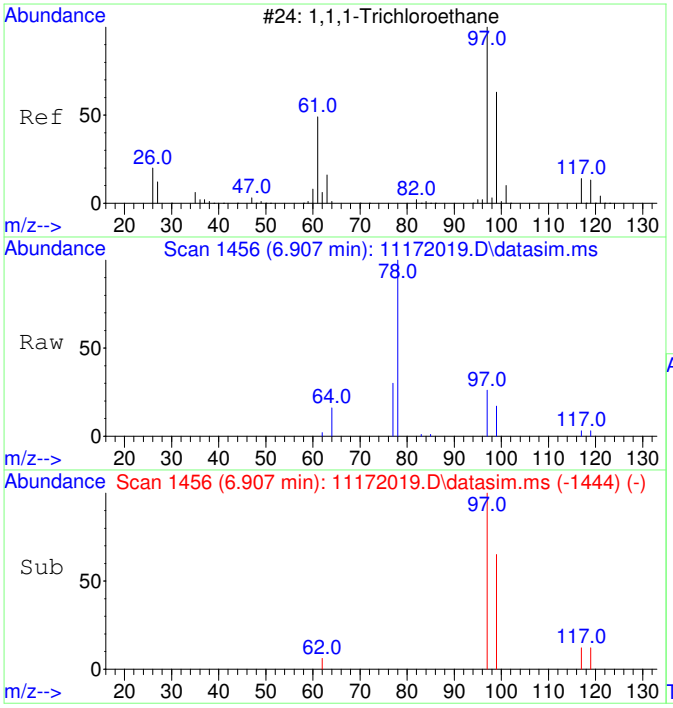


#6
Chloroform
Concen: 14374.69 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 83 Resp: 307185

Ion	Ratio	Lower	Upper
83	100		
85	65.1	35.1	95.1

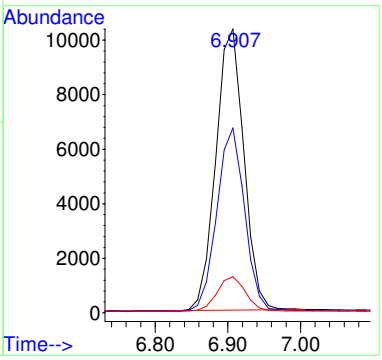


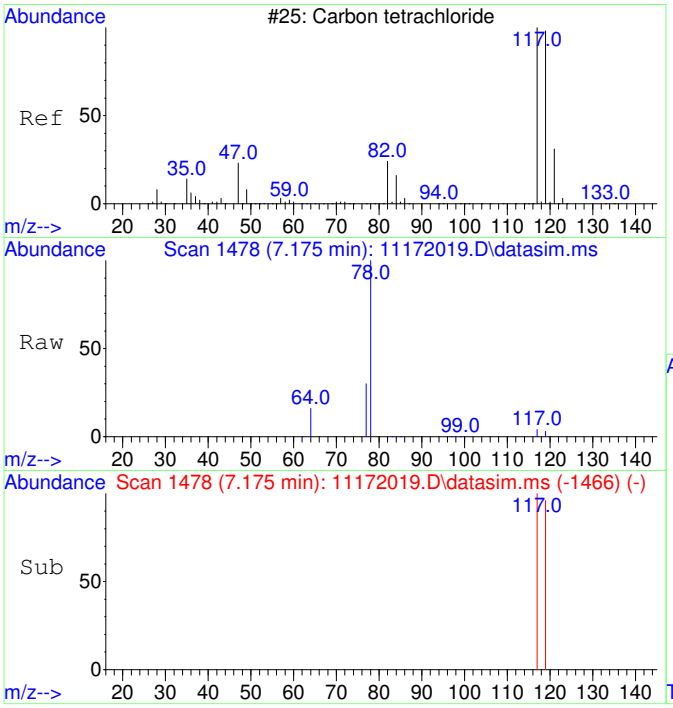


#7
1,1,1-Trichloroethane
Concen: 1192.74 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 97 Resp: 27681

Ion	Ratio	Lower	Upper
97	100		
99	64.1	34.6	94.6
117	12.2	0.0	43.2

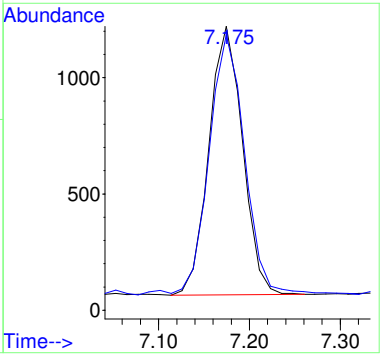


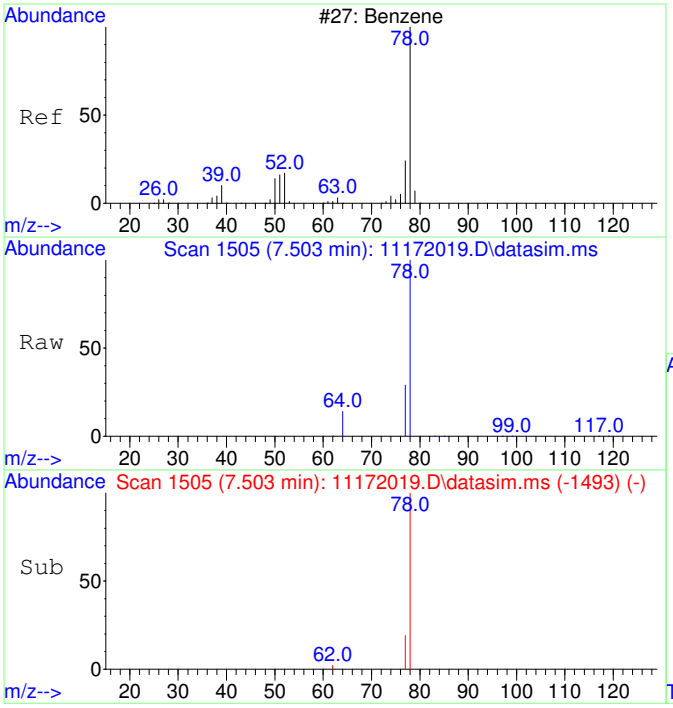


#8
Carbon tetrachloride
Concen: 136.15 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:117 Resp: 2974

Ion	Ratio	Lower	Upper
117	100		
119	101.2	66.4	126.4

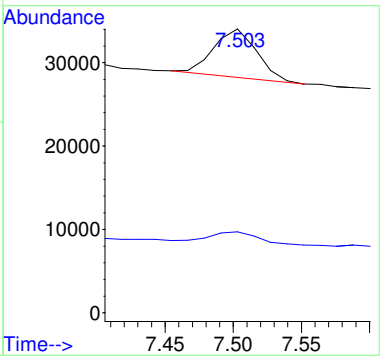


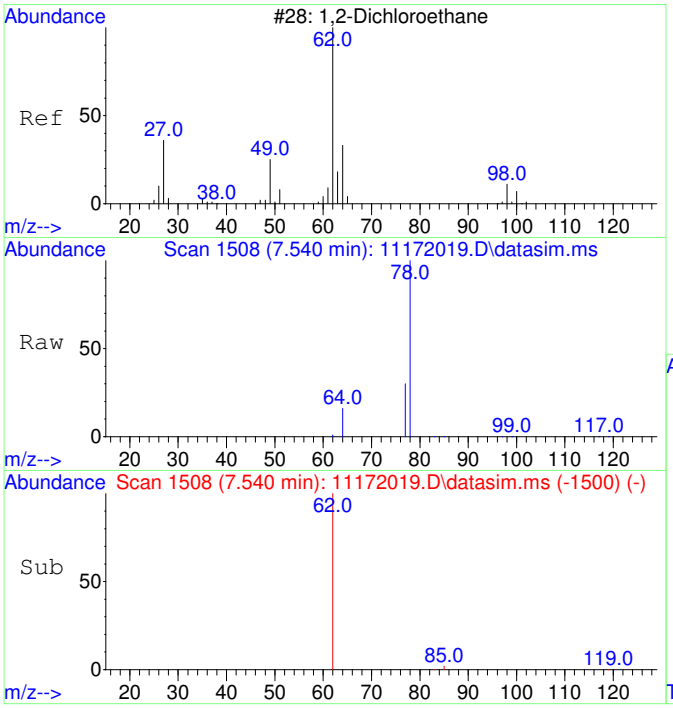


#9
Benzene
Concen: 207.94 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 78 Resp: 12168

Ion	Ratio	Lower	Upper
78	100		
77	43.5	0.0	53.2

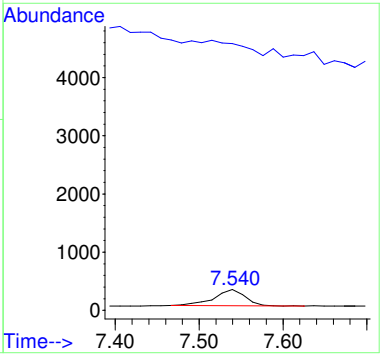


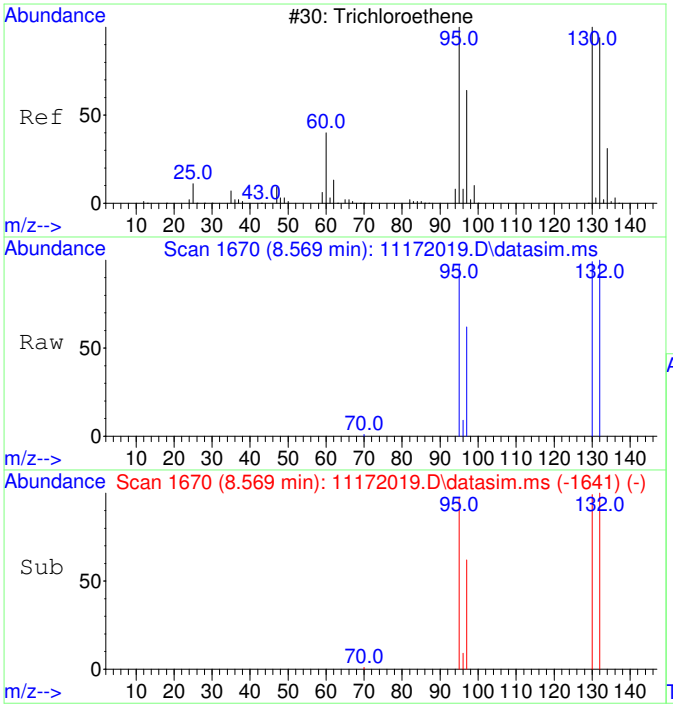


#10
1,2-Dichloroethane
Concen: 34.37 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 62 Resp: 718

Ion	Ratio	Lower	Upper
62	100		
64	0.0	2.3	62.3#

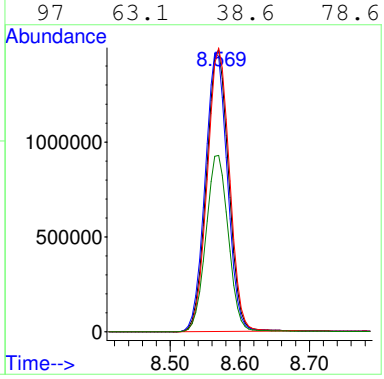


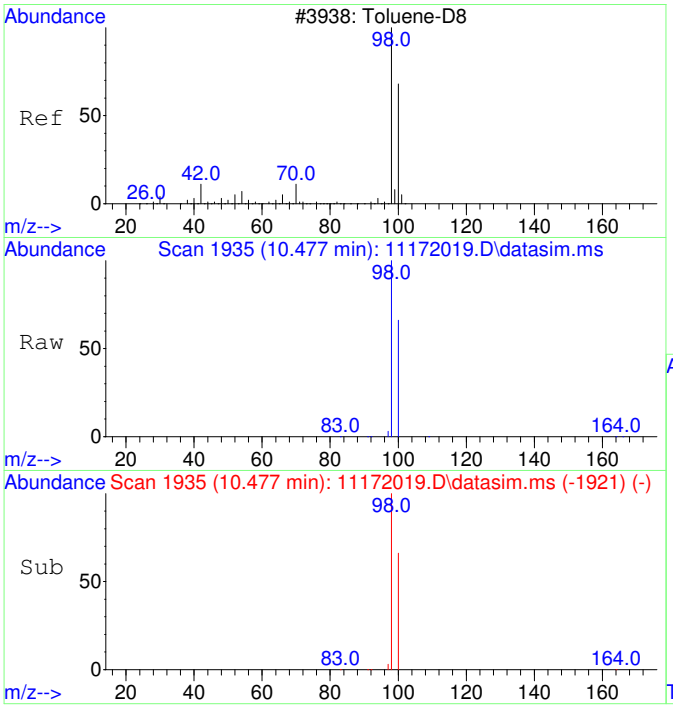


#11
Trichloroethene
Concen: 186673.23 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:130 Resp: 3288912

Ion	Ratio	Lower	Upper
130	100		
95	99.1	60.7	120.7
132	100.4	76.0	116.0
97	63.1	38.6	78.6

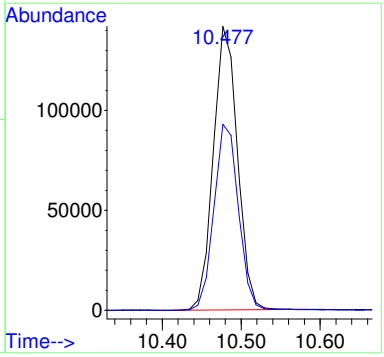


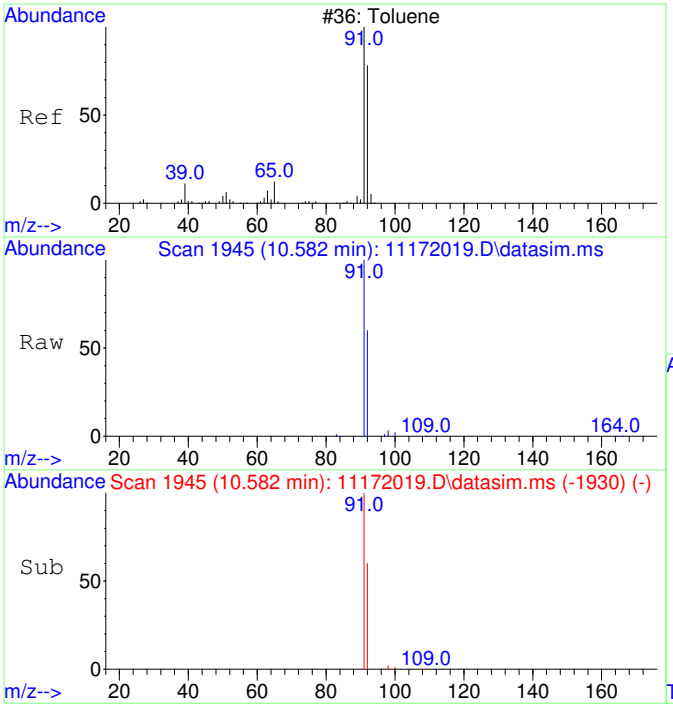


#12
Toluene-d8
Concen: 4463.45 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 98 Resp: 300931

Ion	Ratio	Lower	Upper
98	100		
100	66.1	37.1	97.1

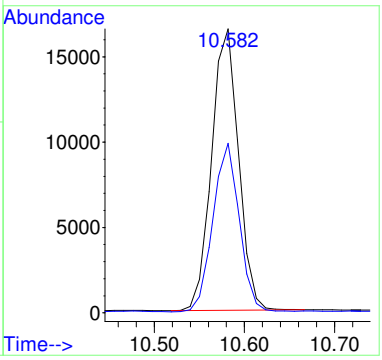


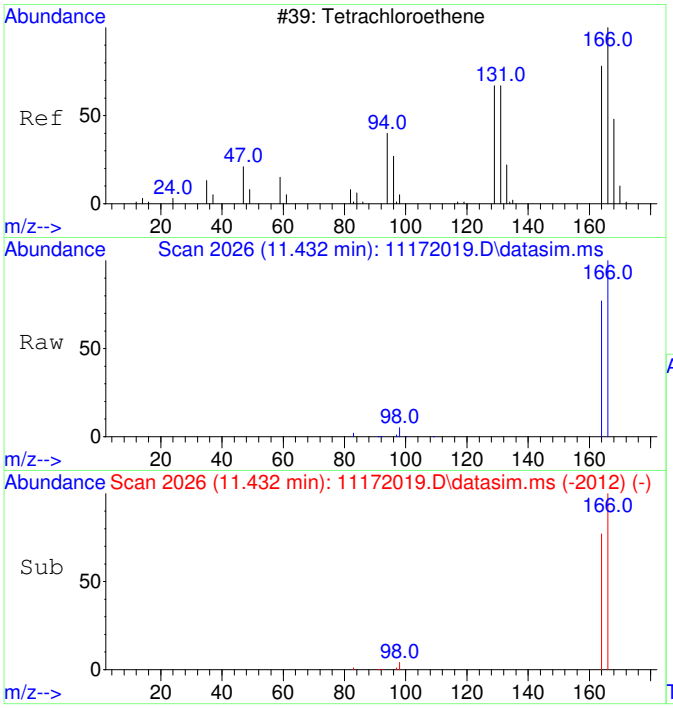


#13
Toluene
Concen: 397.82 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 34195

Ion	Ratio	Lower	Upper
91	100		
92	58.1	29.9	89.9

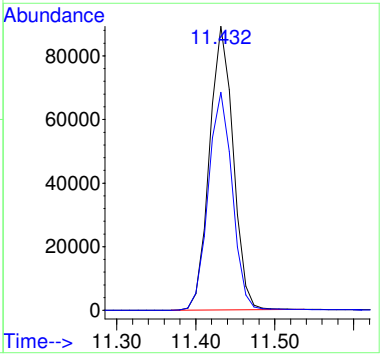


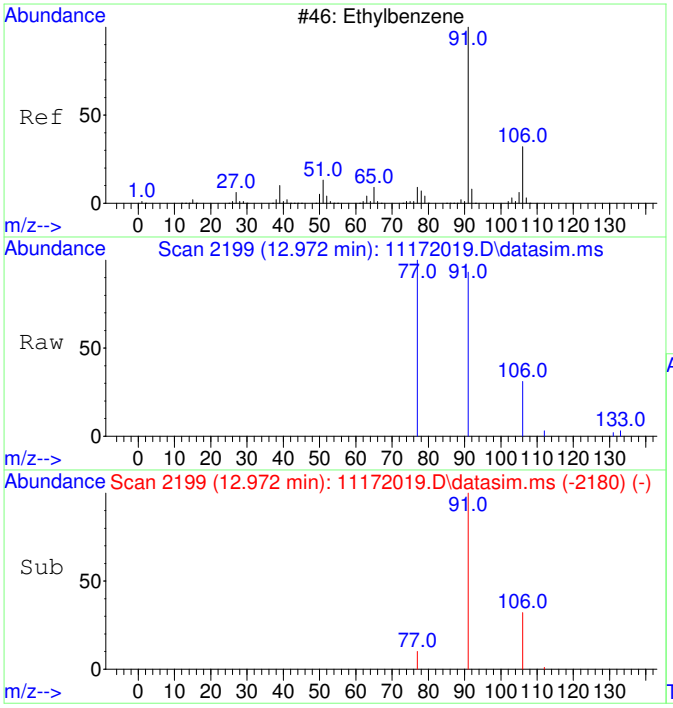


#15
Tetrachloroethene
Concen: 7446.14 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:166 Resp: 185226

Ion	Ratio	Lower	Upper
166	100		
164	77.3	47.8	107.8

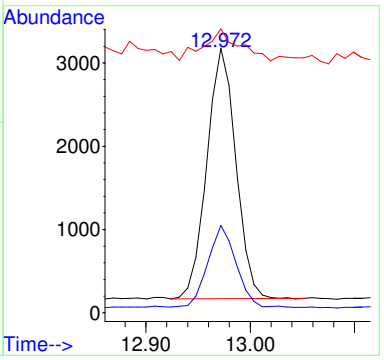


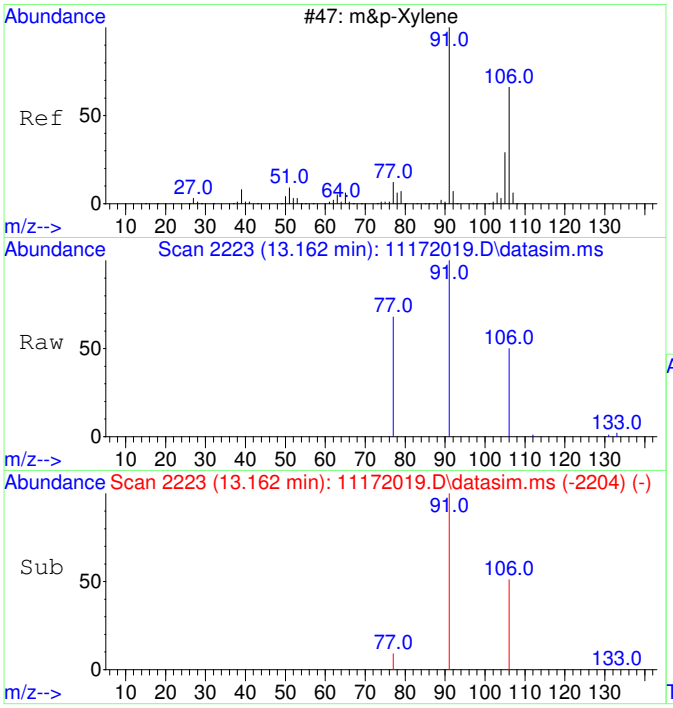


#18
Ethylbenzene
Concen: 55.45 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 5802

Ion	Ratio	Lower	Upper
91	100		
106	31.5	3.0	63.0
77	15.4	0.0	38.2

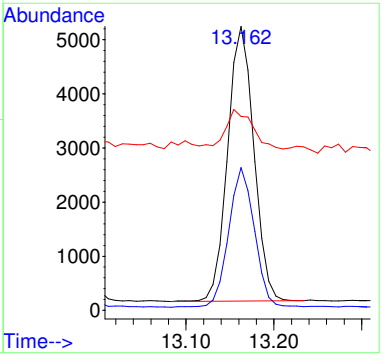


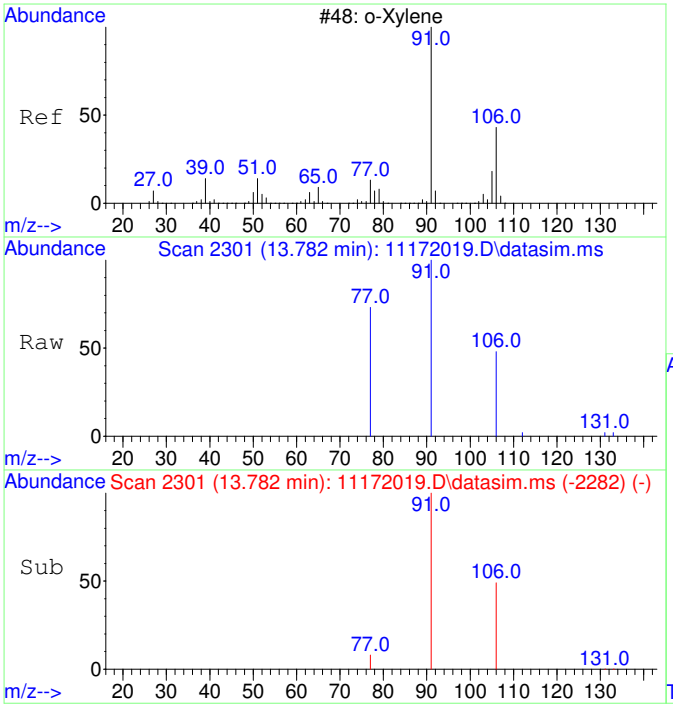


#19
m&p-Xylene
Concen: 128.17 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 10481

Ion	Ratio	Lower	Upper
91	100		
106	49.6	22.2	82.2
77	16.2	0.0	42.4

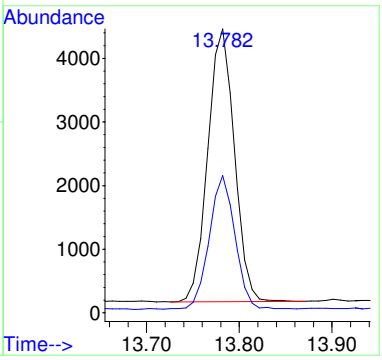


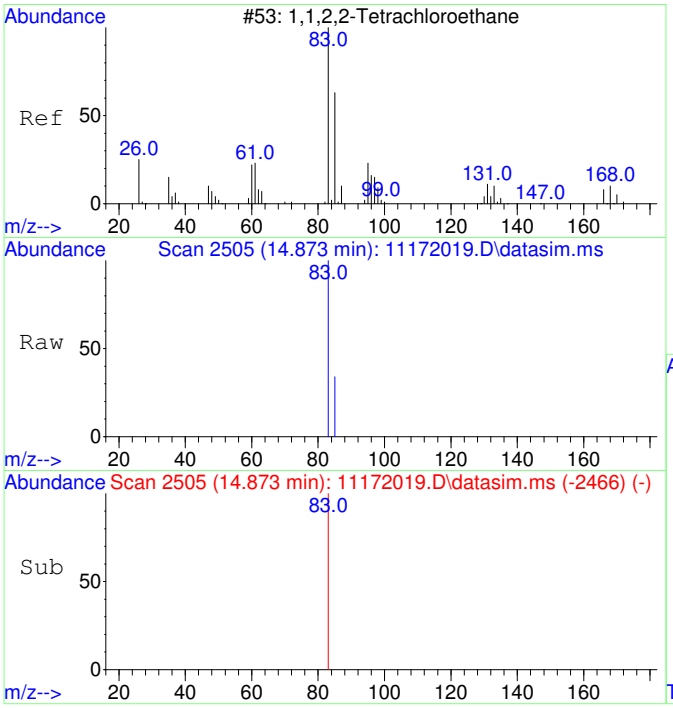


#20
o-Xylene
Concen: 97.88 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 8551

Ion	Ratio	Lower	Upper
91	100		
106	47.2	19.2	79.2

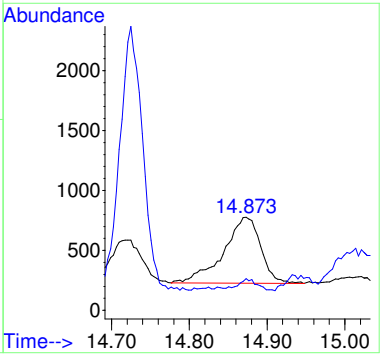


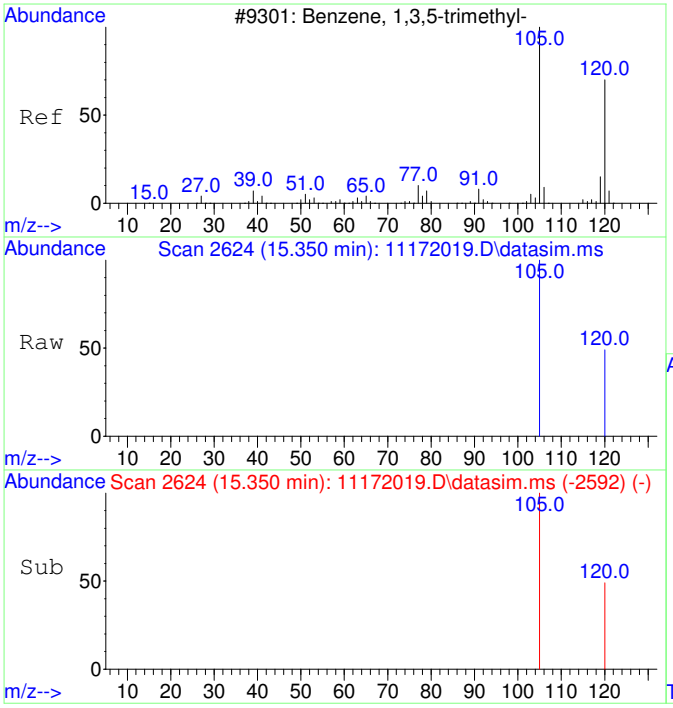


#21
1,1,2,2-Tetrachloroethane
Concen: 47.39 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. -0.004 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 83 Resp: 1835

Ion	Ratio	Lower	Upper
83	100		
85	7.8	34.8	94.8#

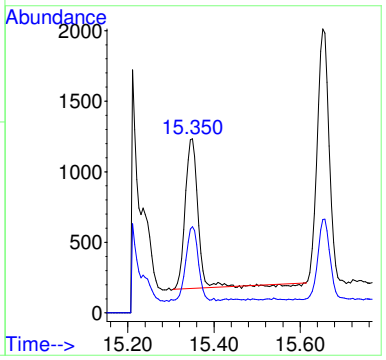


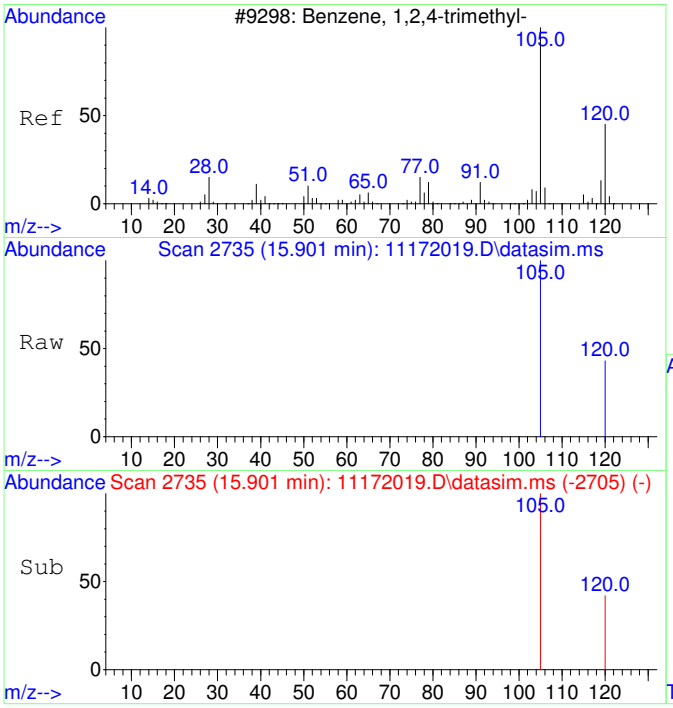


#22
1,3,5-Trimethylbenzene
Concen: 22.63 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:105 Resp: 2104

Ion	Ratio	Lower	Upper
105	100		
120	45.5	21.1	81.1

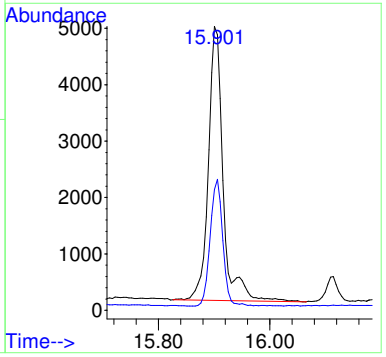


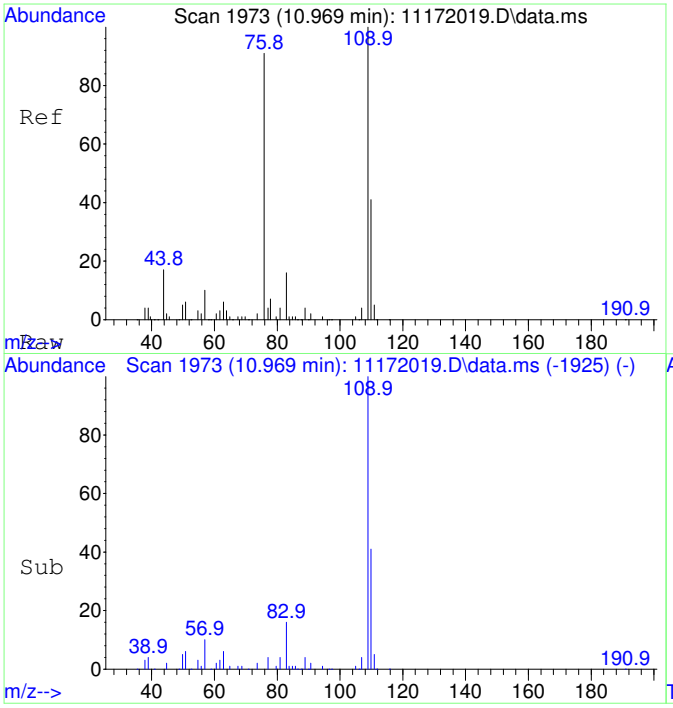


#23
1,2,4-Trimethylbenzene
Concen: 91.89 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:105 Resp: 8875

Ion	Ratio	Lower	Upper
105	100		
120	39.4	17.2	77.2

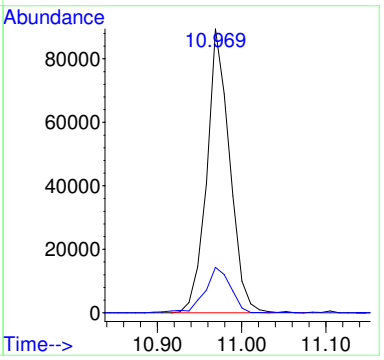


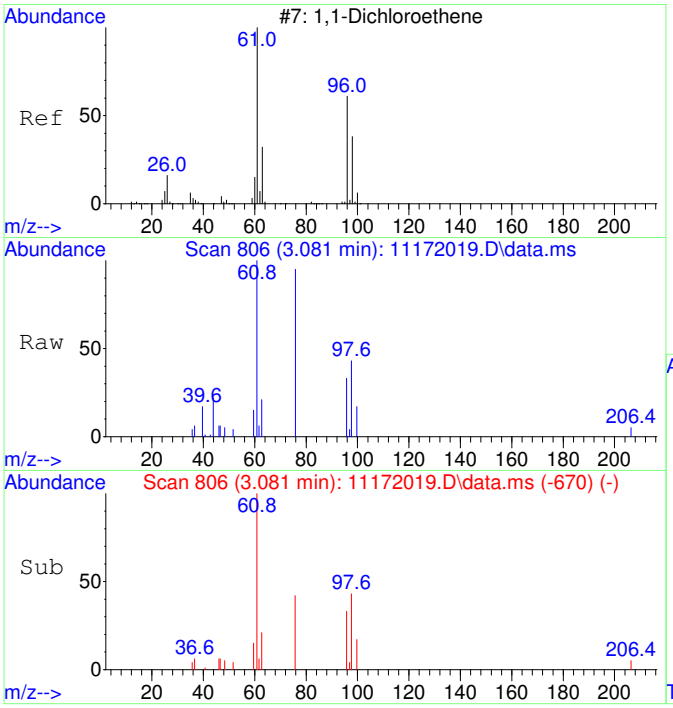


#25
2-Fluorotoluene SCAN
Concen: 5033.18 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:109 Resp: 168980

Ion	Ratio	Lower	Upper
109	100		
83	18.1	0.0	43.8

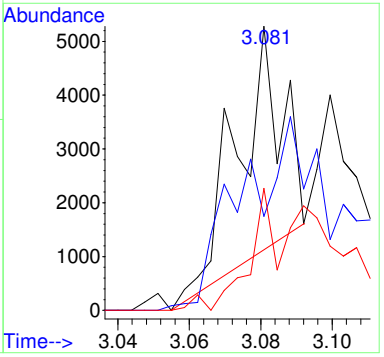


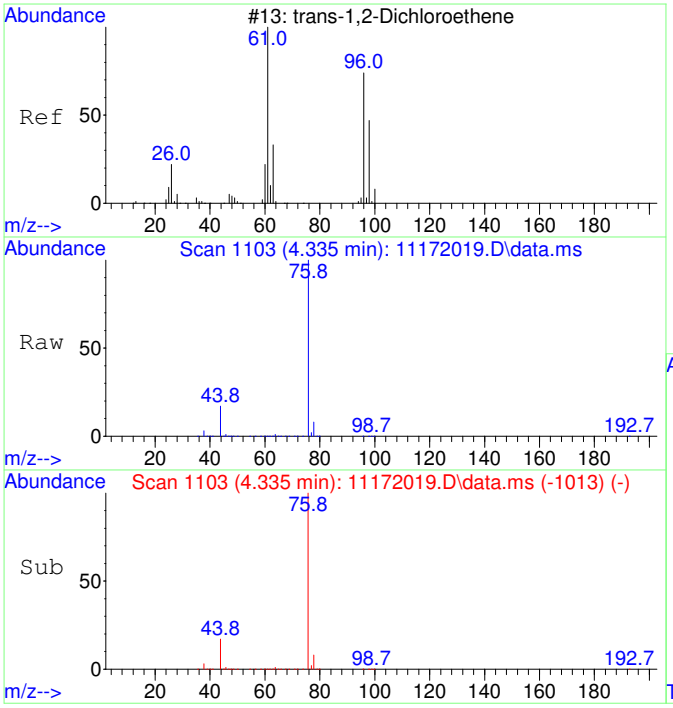


#26
1,1-Dichloroethene SCAN
Concen: 527.07 ug/L
RT: 3.081 min Scan# 806
Delta R.T. 0.004 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 61 Resp: 3758

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.1	93.1#
98	16.5	11.2	71.2

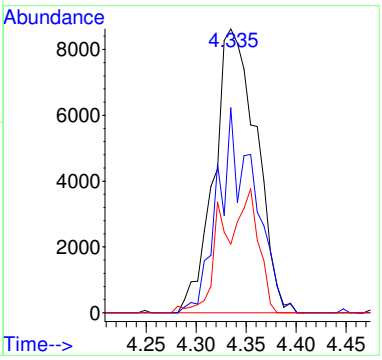


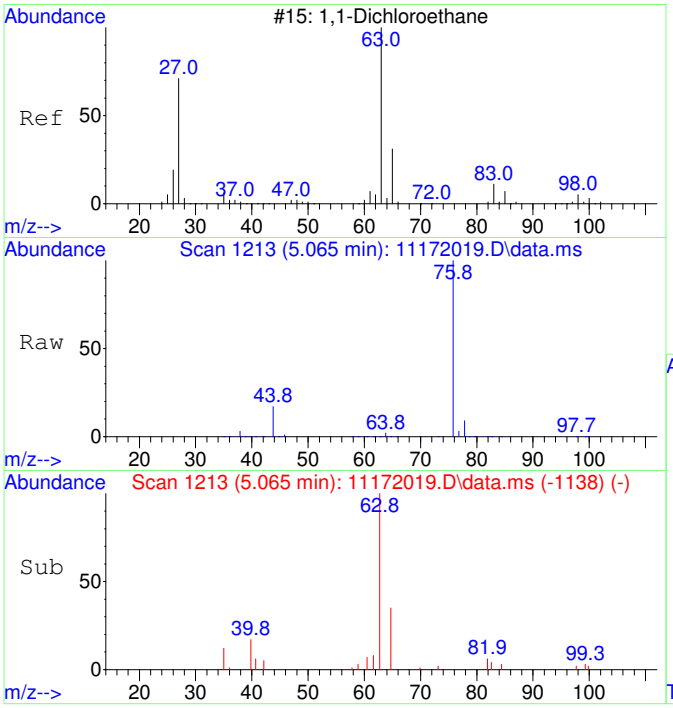


#27
trans-1,2-Dichloroethene SCAN
Concen: 2887.28 ug/L
RT: 4.335 min Scan# 1103
Delta R.T. -0.013 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 61 Resp: 25474

Ion	Ratio	Lower	Upper
61	100		
96	61.9	49.0	109.0
98	10.5	20.5	80.5#

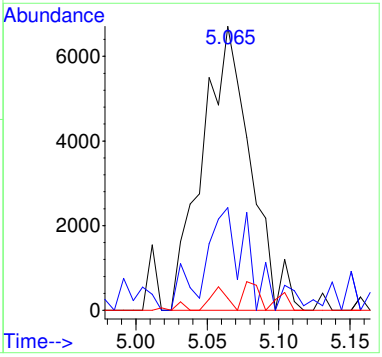


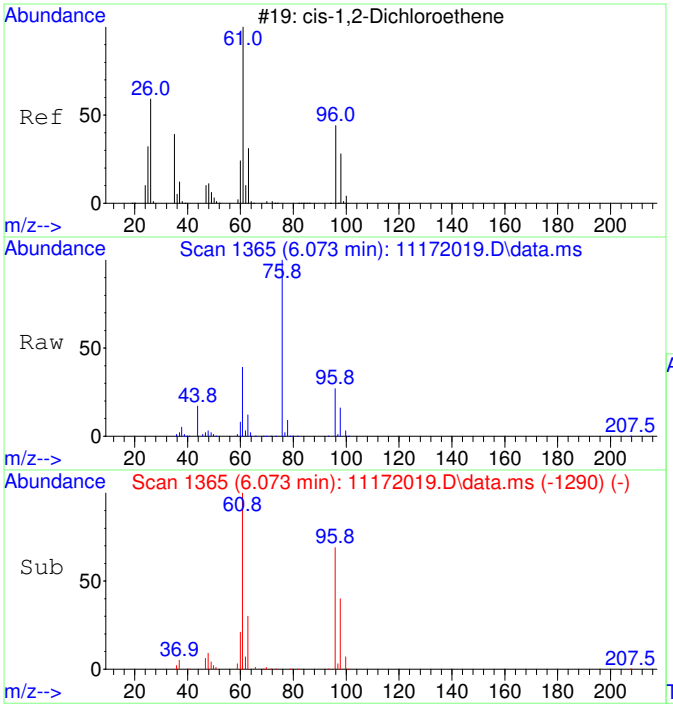


#28
1,1-Dichloroethane SCAN
Concen: 1540.63 ug/L
RT: 5.065 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 63 Resp: 15731

Ion	Ratio	Lower	Upper
63	100		
65	32.0	1.3	61.3
83	2.8	0.0	45.9

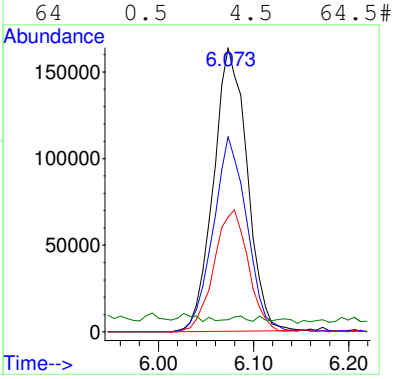


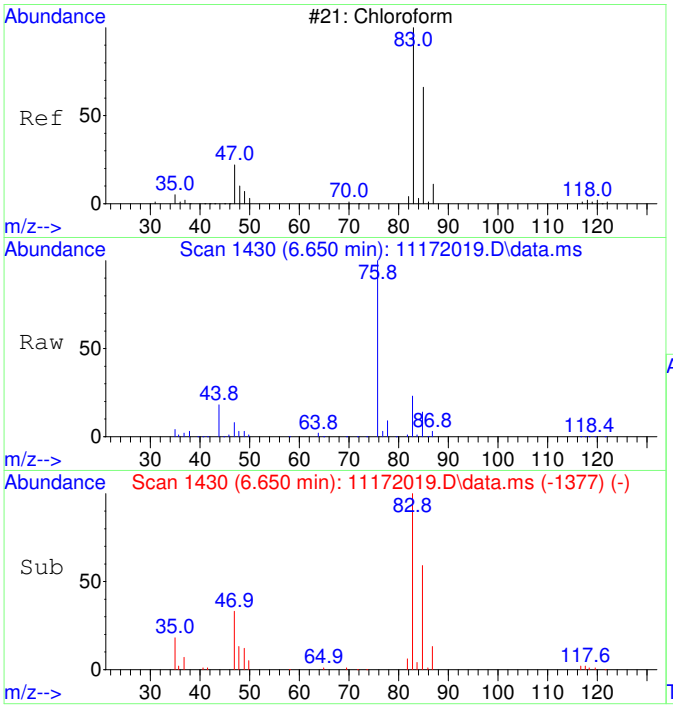


#29
cis-1,2-Dichloroethene SCAN
Concen: 36919.04 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 61 Resp: 403888

Ion	Ratio	Lower	Upper
61	100		
96	69.0	39.9	99.9
98	43.6	13.5	73.5
64	0.5	4.5	64.5#

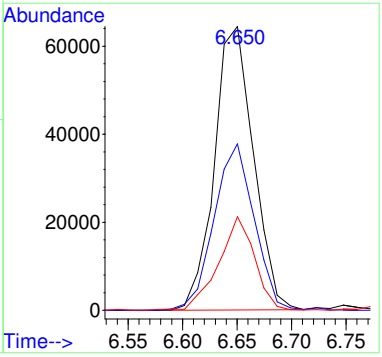


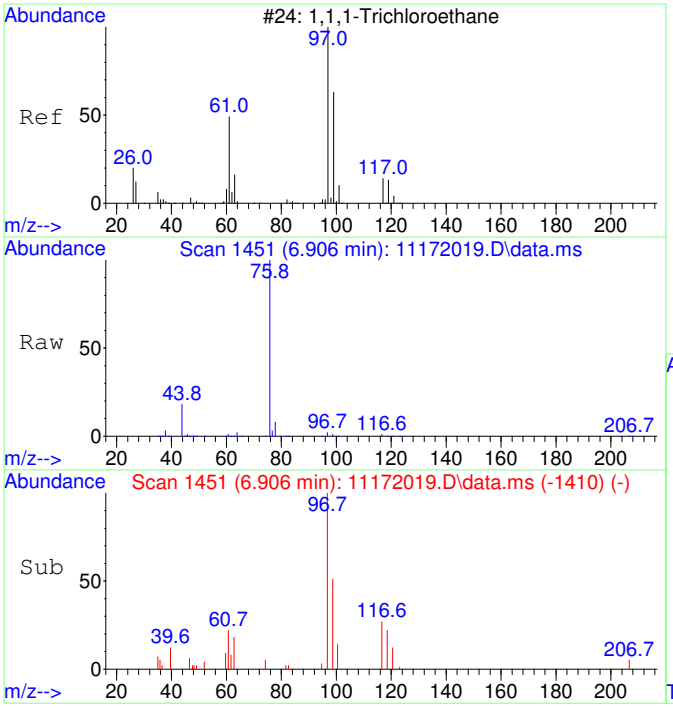


#30
Chloroform SCAN
Concen: 13560.94 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 83 Resp: 160911

Ion	Ratio	Lower	Upper
83	100		
85	60.4	34.6	94.6
47	30.5	0.0	53.4

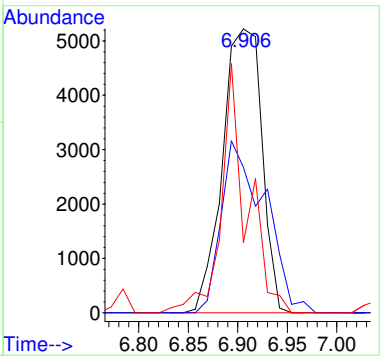


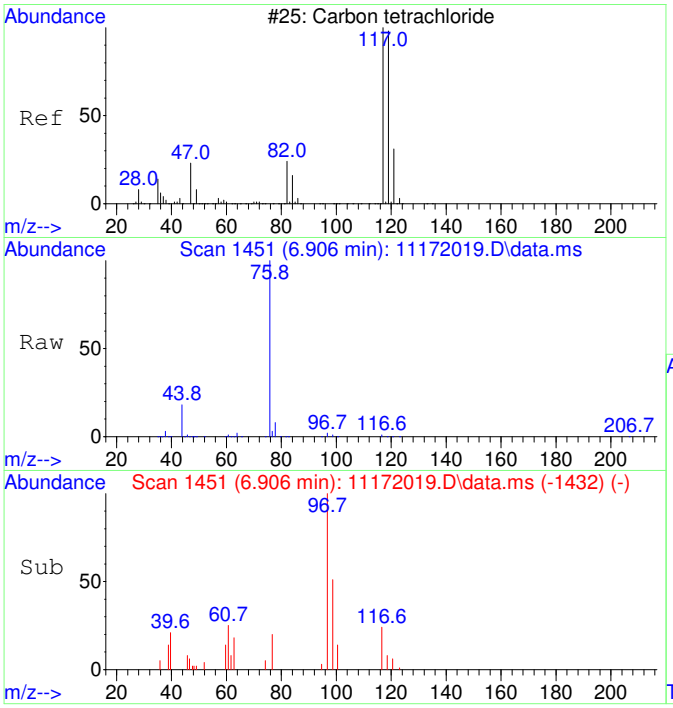


#31
1,1,1-Trichloroethane SCAN
Concen: 1338.94 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 97 Resp: 14478

Ion	Ratio	Lower	Upper
97	100		
99	66.9	43.6	103.6
61	56.9	18.0	78.0

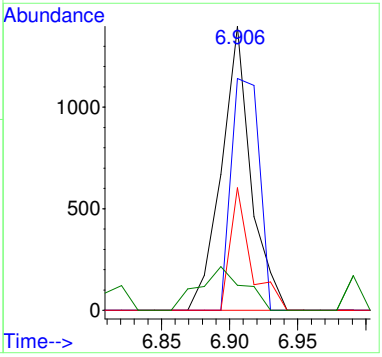


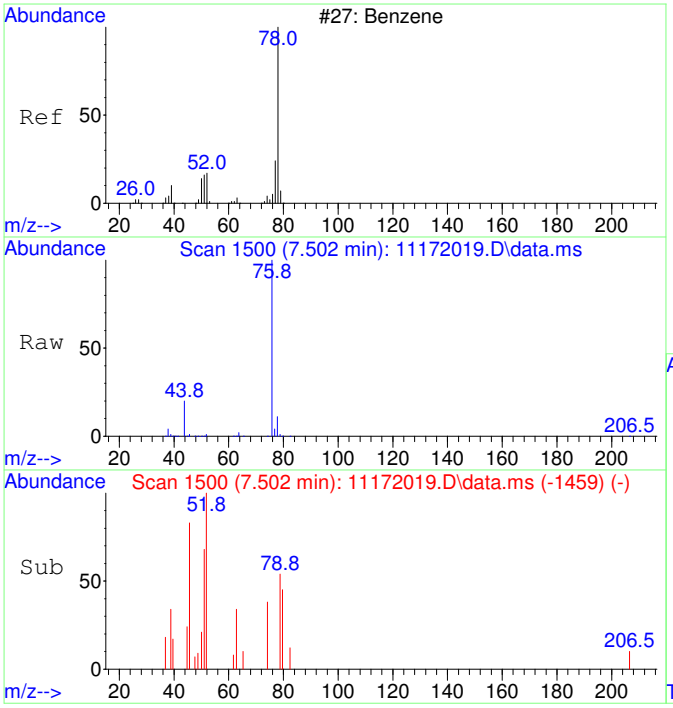


#32
Carbon tetrachloride SCAN
Concen: 186.72 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.268 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:117 Resp: 2106

Ion	Ratio	Lower	Upper
117	100		
119	77.9	75.5	135.5
121	30.1	0.0	58.8
82	23.6	0.0	59.2

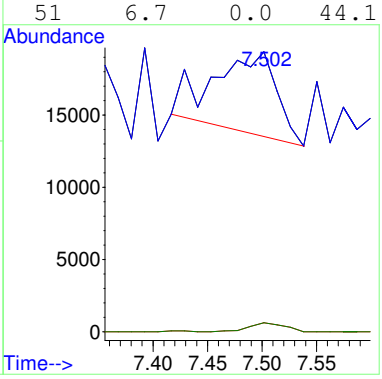


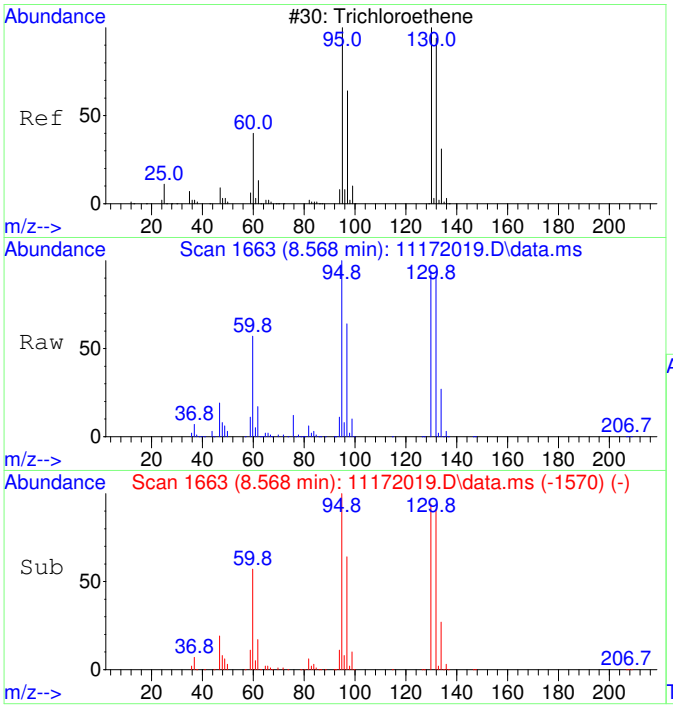


#33
Benzene SCAN
Concen: 722.45 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 78 Resp: 21509

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	6.7	0.0	47.9
51	6.7	0.0	44.1

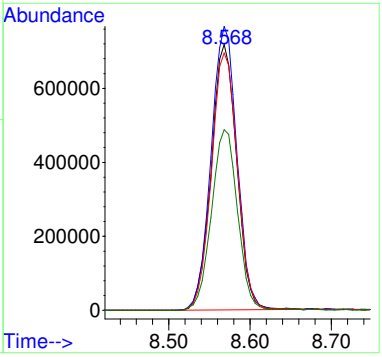


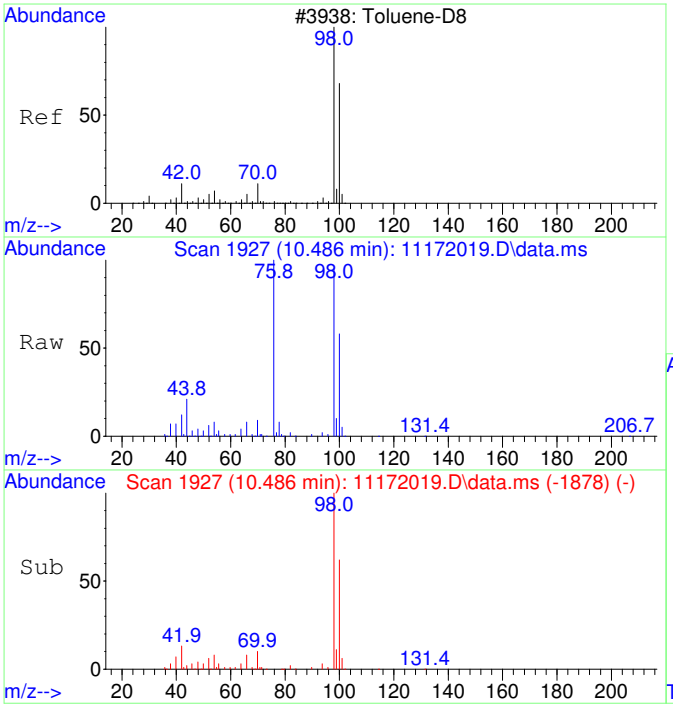


#35
Trichloroethene SCAN
Concen: 191863.11 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:130 Resp: 1569756

Ion	Ratio	Lower	Upper
130	100		
95	108.1	60.5	120.5
132	98.0	59.6	119.6
97	69.3	28.2	88.2

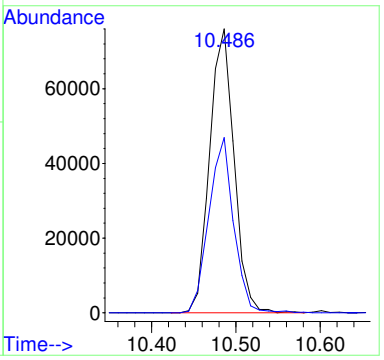


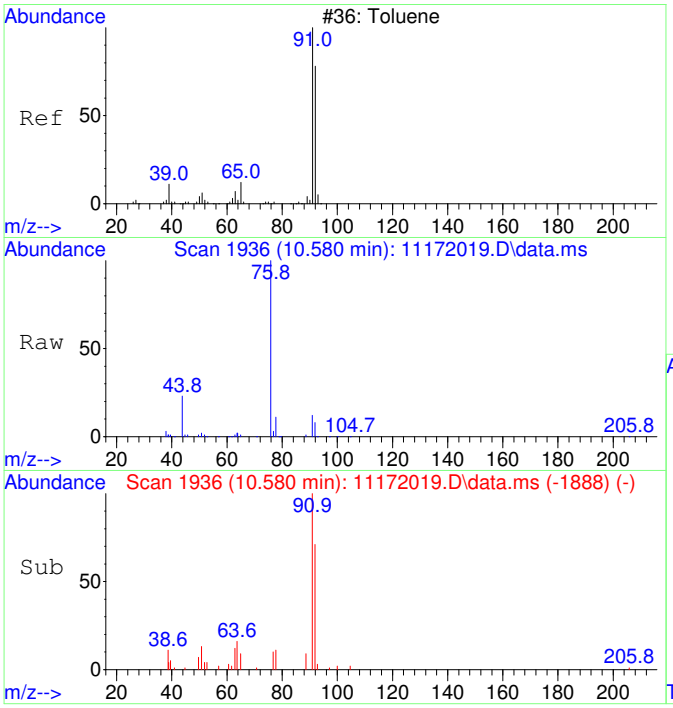


#36
Toluene-d8 SCAN
Concen: 4687.00 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 98 Resp: 153891

Ion	Ratio	Lower	Upper
98	100		
100	62.6	40.0	100.0

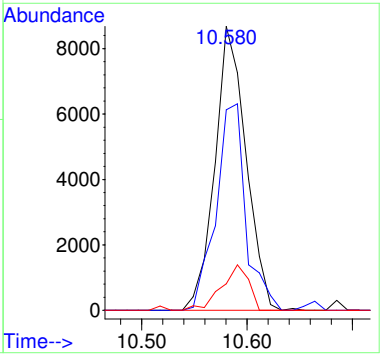


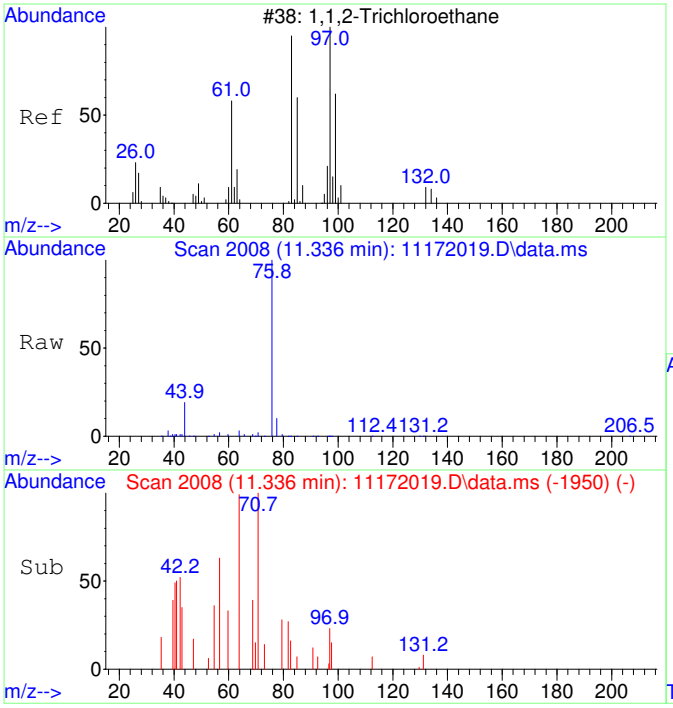


#37
Toluene SCAN
Concen: 424.80 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 17862

Ion	Ratio	Lower	Upper
91	100		
92	69.4	28.3	88.3
65	13.9	0.0	41.0

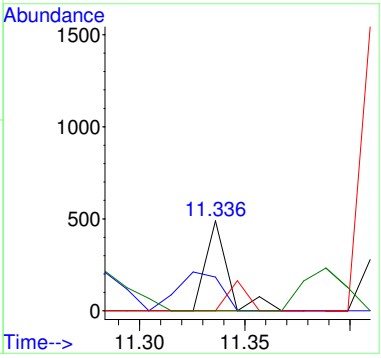


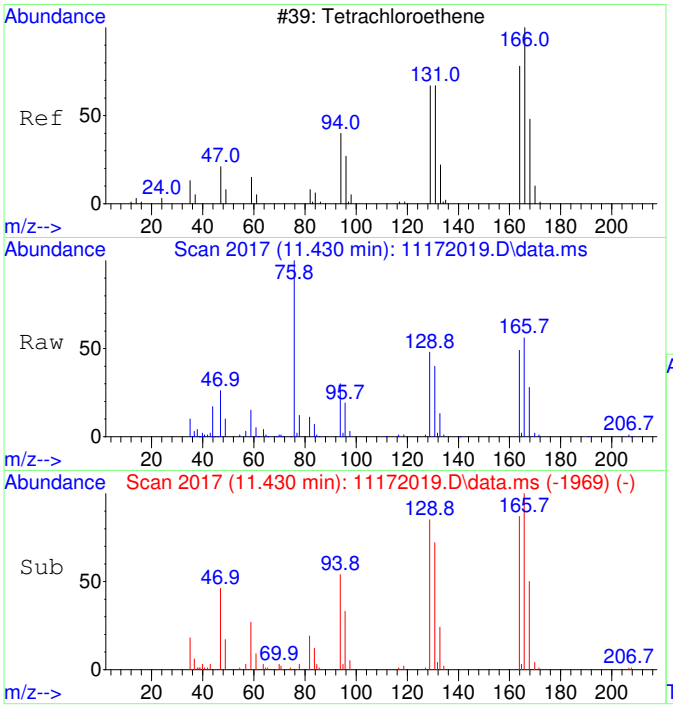


#38
1,1,2-Trichloroethane SCAN
Concen: 37.72 ug/L
RT: 11.336 min Scan# 2008
Delta R.T. 0.105 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 97 Resp: 356

Ion	Ratio	Lower	Upper
97	100		
83	85.4	57.7	117.7
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

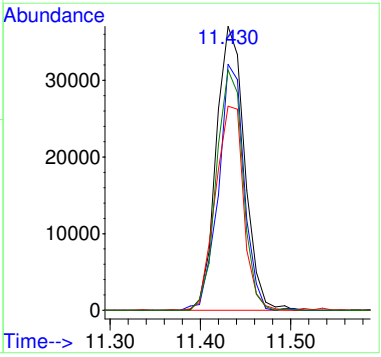


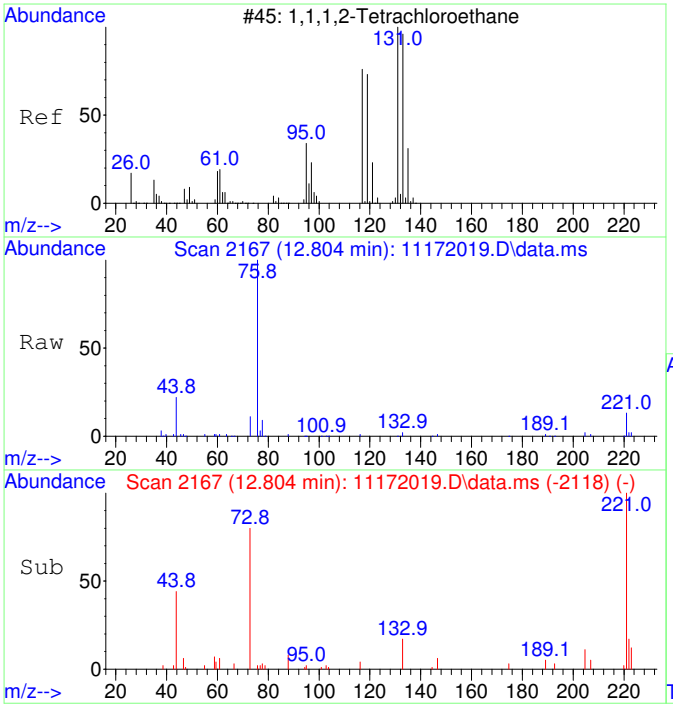


#39
Tetrachloroethene SCAN
Concen: 8012.49 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:166 Resp: 80942

Ion	Ratio	Lower	Upper
166	100		
164	78.3	50.9	110.9
131	71.4	38.7	98.7
129	79.4	41.8	101.8

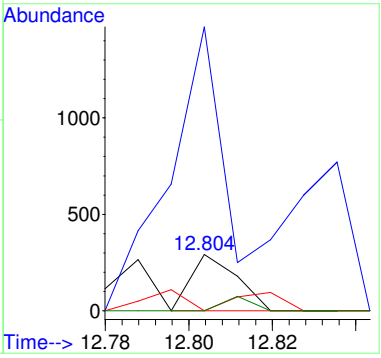


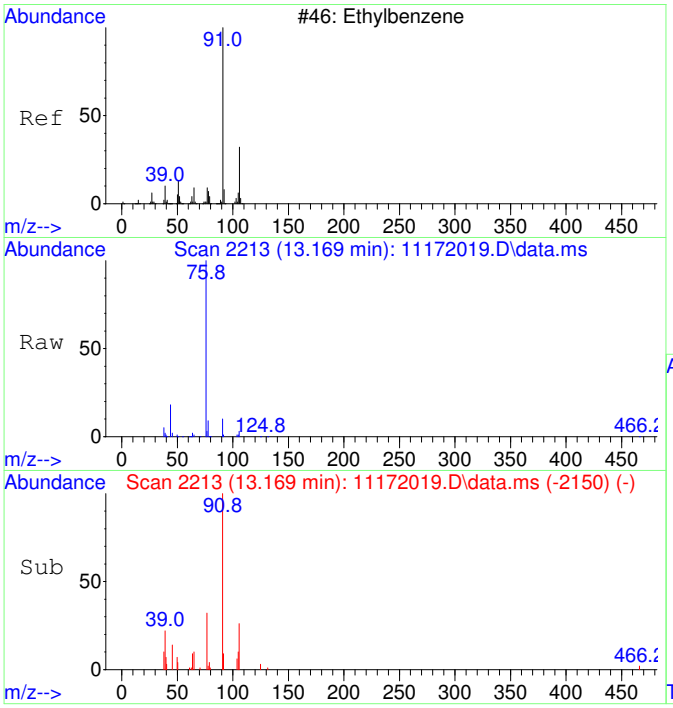


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 21.16 ug/L
RT: 12.804 min Scan# 2167
Delta R.T. -0.111 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:131 Resp: 225

Ion	Ratio	Lower	Upper
131	100		
133	475.1	66.9	126.9#
119	33.8	40.4	100.4#
117	0.0	35.1	95.1#

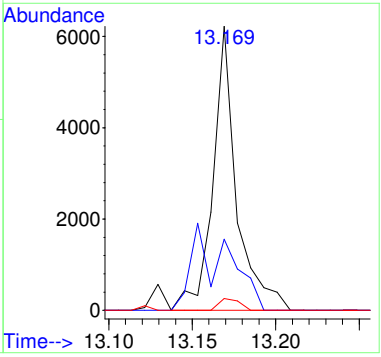


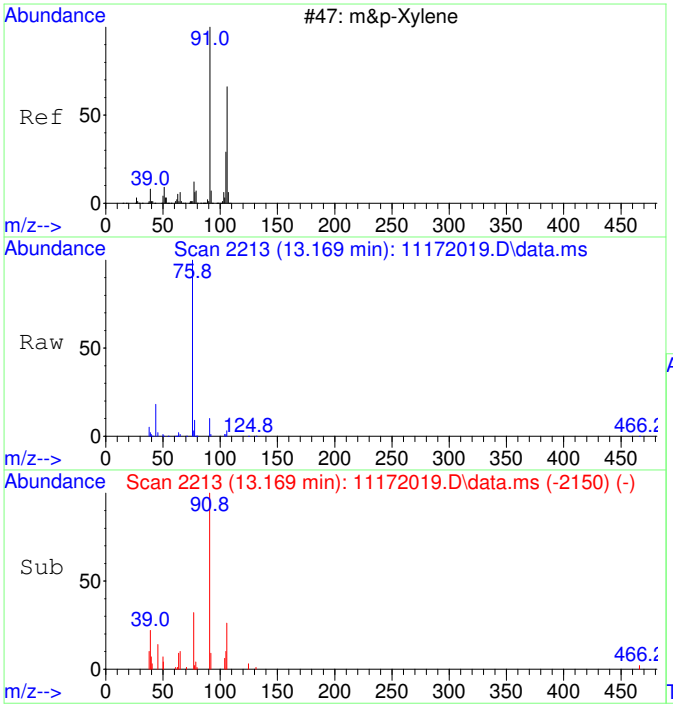


#42
Ethylbenzene SCAN
Concen: 80.02 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 6130

Ion	Ratio	Lower	Upper
91	100		
106	46.5	23.1	83.1
51	3.6	0.0	40.1

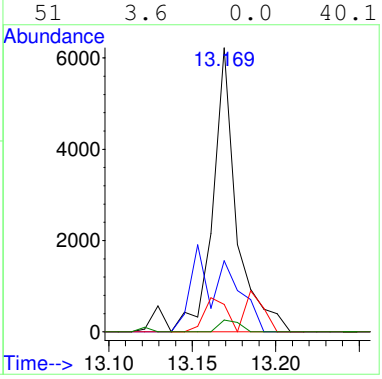


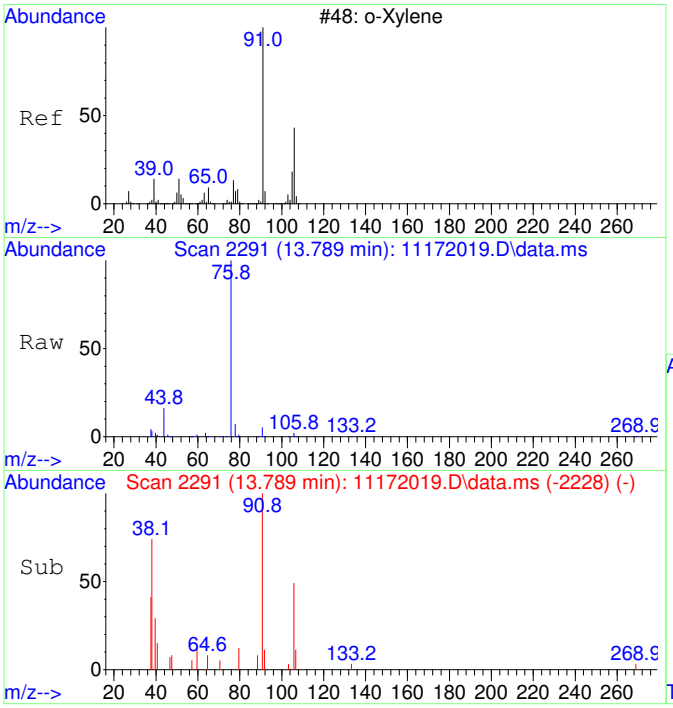


#43
m&p-Xylene SCAN
Concen: 80.02 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 6130

Ion	Ratio	Lower	Upper
91	100		
106	46.5	23.1	83.1
105	11.4	0.0	54.7
51	3.6	0.0	40.1

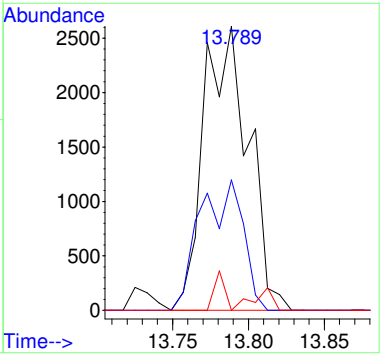


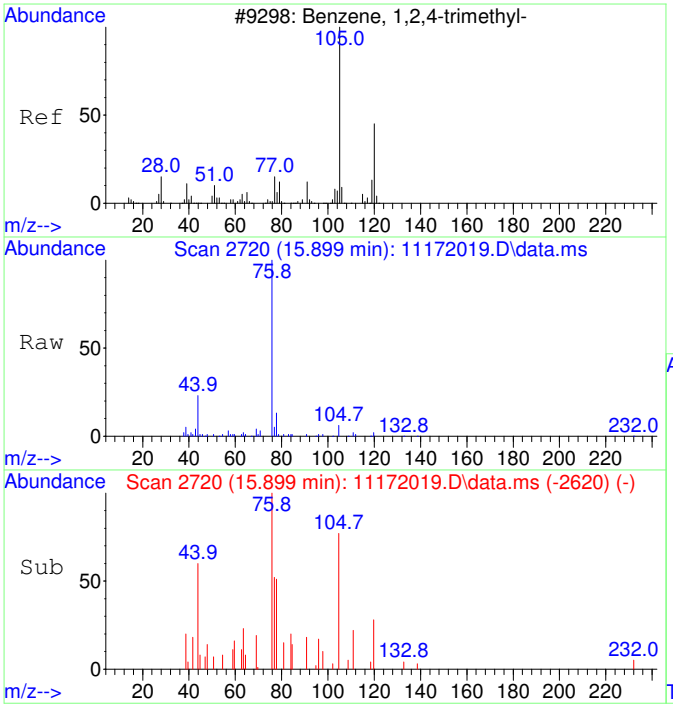


#44
o-Xylene SCAN
Concen: 131.40 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 5388

Ion	Ratio	Lower	Upper
91	100		
106	43.8	18.0	78.0
105	3.5	0.0	56.6

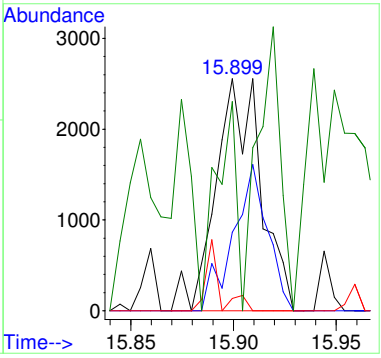




#47
1,2,4-Trimethylbenzene SCAN
Concen: 87.81 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.005 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:105 Resp: 3883

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.9	76.9#
119	9.3	0.0	41.9
77	40.5	0.0	42.3



Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172019.D
Acq On : 17 Nov 2020 15:00
InstName : AG5975C
Operator : TD
Sample : 2011017-08
Misc :
ALS Vial : 19 Sample Multiplier: 1

M.I. Performed By:
TD at 9:00 am, Nov 23, 2020

M.I. Approved By:
ZR at 3:40 pm, Nov 23, 2020

Quant Time: Nov 18 06:16:08 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

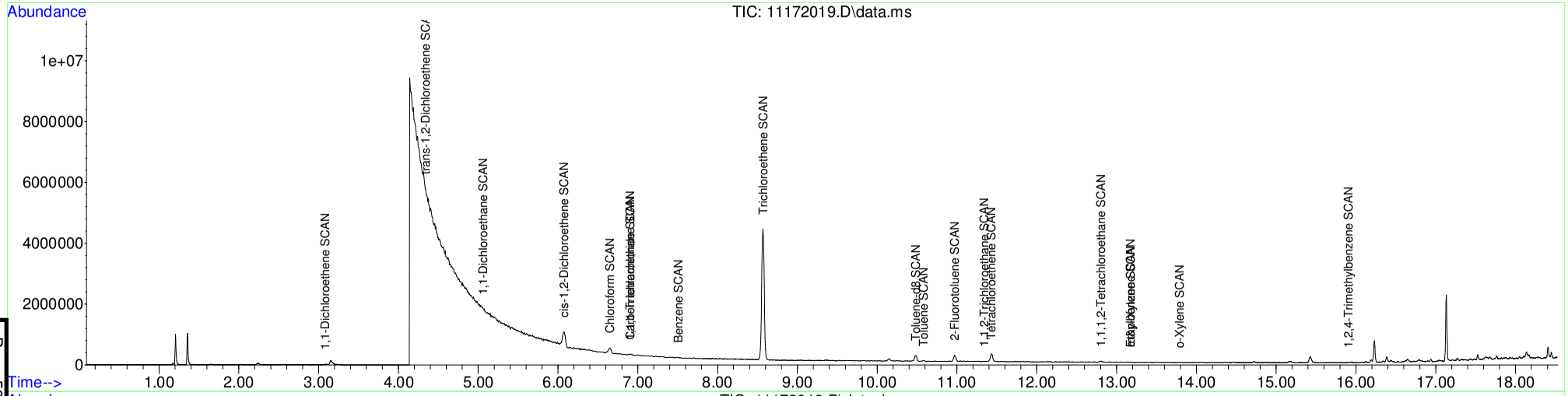
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	344406	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	300931	4463.45 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 89.27%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	22631	1645.57 ug/L	87
3] trans-1,2-Dichloroethene	4.336	61	41207	2593.36 ug/L	99
4] 1,1-Dichloroethane	5.066	63	25578	1293.17 ug/L	98
5] cis-1,2-Dichloroethene	6.074	61	746848	35771.30 ug/L OC	100
6] Chloroform	6.639	83	307185	14374.69 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	27681	1192.74 ug/L	99
8] Carbon tetrachloride	7.175	117	2974	136.15 ug/L	95
9] Benzene	7.503	78	12168	207.94 ug/L	58
10] 1,2-Dichloroethane	7.540	62	718	34.37 ug/L #	42
11] Trichloroethene	8.569	130	3288912	186673.23 ug/L OC	93
13] Toluene	10.582	91	34195	397.82 ug/L	98
15] Tetrachloroethene	11.432	166	185226	7446.14 ug/L	99
18] Ethylbenzene	12.972	91	5802	55.45 ug/L	94
19] m&p-Xylene	13.162	91	10481	128.17 ug/L	95
20] o-Xylene	13.782	91	8551	97.88 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.873	83	1835	47.39 ug/L #	28
22] 1,3,5-Trimethylbenzene	15.350	105	2104	22.63 ug/L	92
23] 1,2,4-Trimethylbenzene	15.901	105	8875	91.89 ug/L	88
25) 2-Fluorotoluene SCAN	10.969	109	168980	5033.18 ug/L	89
26) 1,1-Dichloroethene SCAN	3.081	61	3758	527.07 ug/L #	35
27) trans-1,2-Dichloroethe...	4.335	61	25474	2887.28 ug/L #	66
28) 1,1-Dichloroethane SCAN	5.065	63	15731	1540.63 ug/L	89
29) cis-1,2-Dichloroethene...	6.073	61	403888	36919.04 ug/L #	86
30) Chloroform SCAN	6.650	83	160911	13560.94 ug/L	92
31) 1,1,1-Trichloroethane ...	6.906	97	14478	1338.94 ug/L	90
32) Carbon tetrachloride SCAN	6.906	117	2106	186.72 ug/L	80
33) Benzene SCAN	7.502	78	21509	722.45 ug/L	95
35) Trichloroethene SCAN	8.568	130	1569756	191863.11 ug/L	86
36) Toluene-d8 SCAN	10.486	98	153891	4687.00 ug/L	91
37) Toluene SCAN	10.580	91	17862	424.80 ug/L	86
38) 1,1,2-Trichloroethane ...	11.336	97	356	37.72 ug/L #	50
39) Tetrachloroethene SCAN	11.430	166	80942	8012.49 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.804	131	225	21.16 ug/L #	1
42) Ethylbenzene SCAN	13.169	91	6130	80.02 ug/L	89
43) m&p-Xylene SCAN	13.169	91	6130	80.02 ug/L	85
44) o-Xylene SCAN	13.789	91	5388	131.40 ug/L	80
47) 1,2,4-Trimethylbenzene...	15.899	105	3883	87.81 ug/L #	40

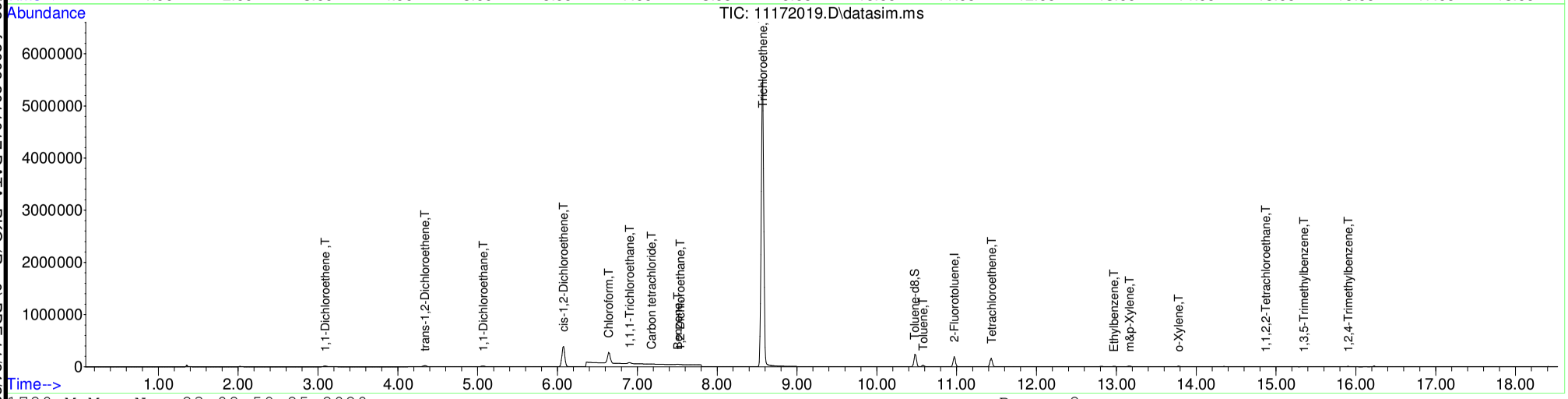
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172019.D
Acq On : 17 Nov 2020 15:00
InstName : AG5975C
Operator : TD
Sample : 2011017-08
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 18 06:16:08 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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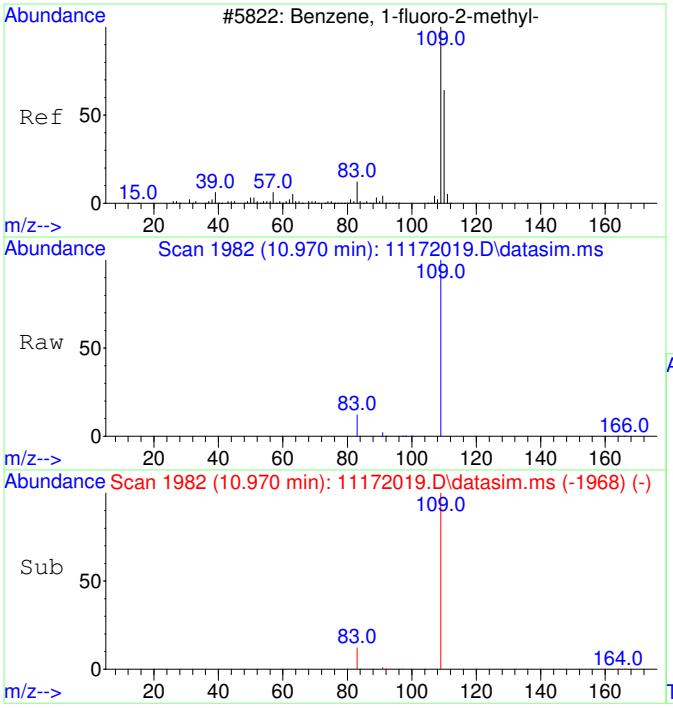
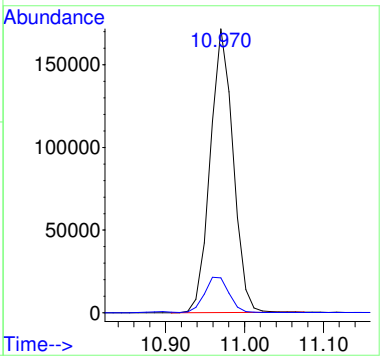
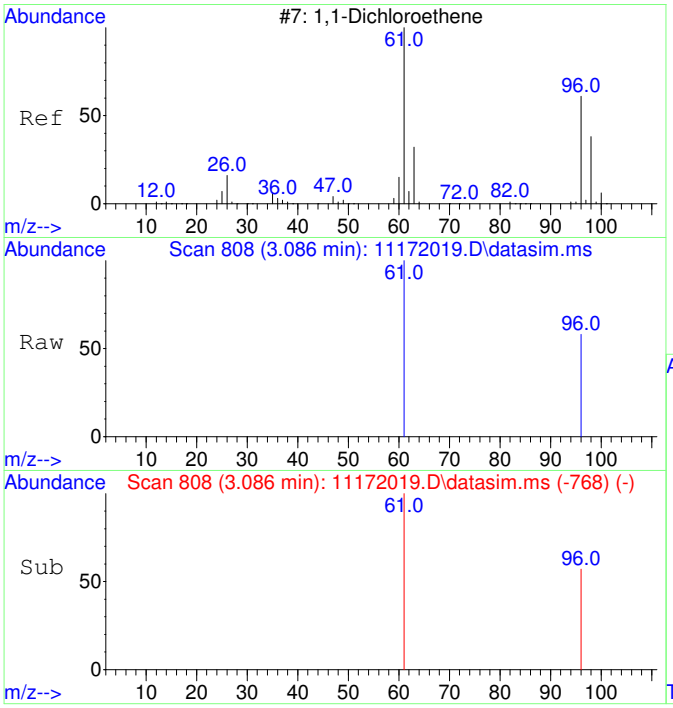


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:109 Resp: 344406

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	42.3

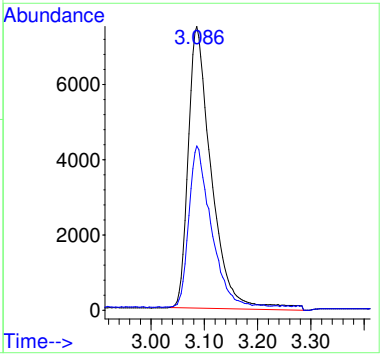


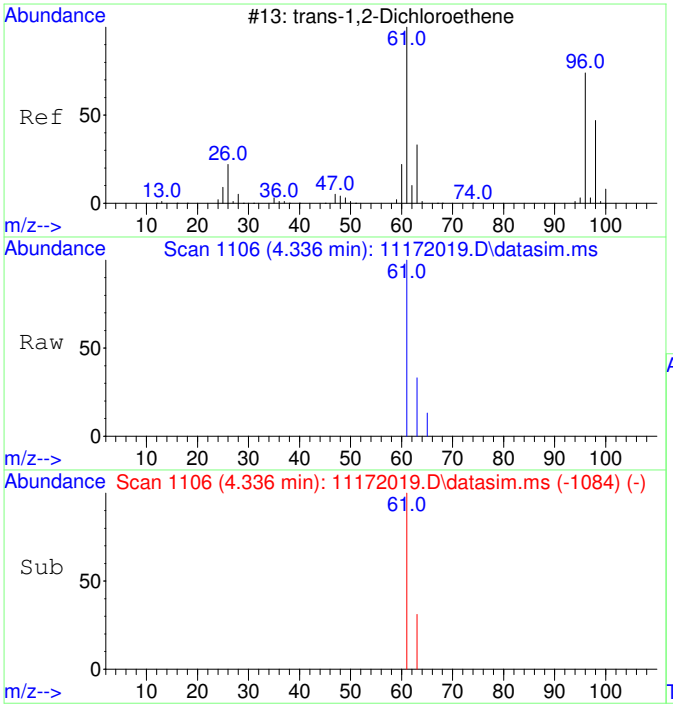


#2
1,1-Dichloroethene
Concen: 1645.57 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 61 Resp: 22631

Ion	Ratio	Lower	Upper
61	100		
96	56.5	37.2	97.2

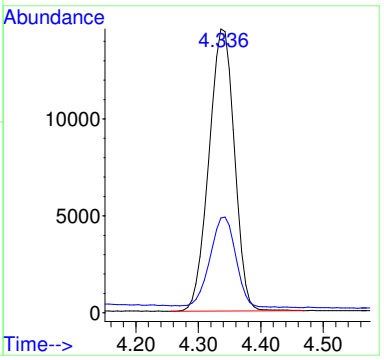


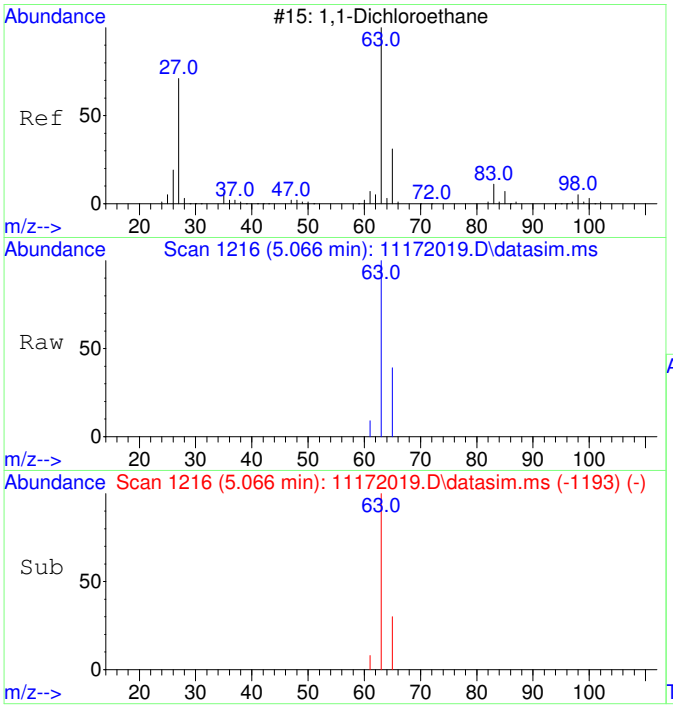


#3
trans-1,2-Dichloroethene
Concen: 2593.36 ug/L
RT: 4.336 min Scan# 1106
Delta R.T. -0.007 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 61 Resp: 41207

Ion	Ratio	Lower	Upper
61	100		
63	32.9	2.4	62.4

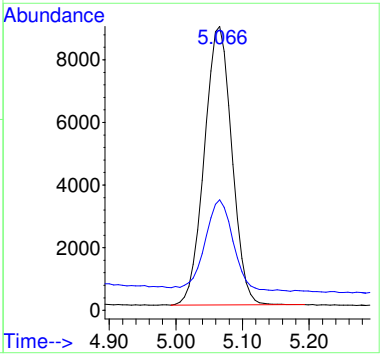


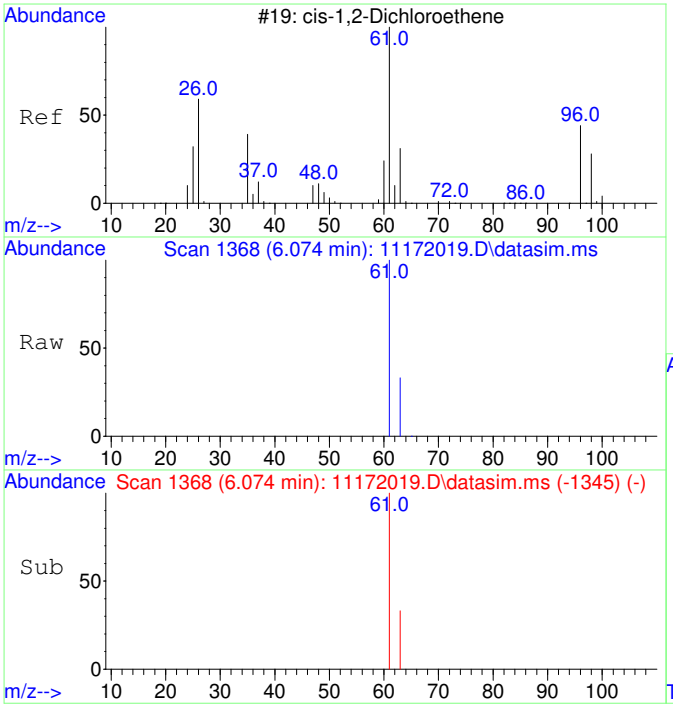


#4
1,1-Dichloroethane
Concen: 1293.17 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 63 Resp: 25578

Ion	Ratio	Lower	Upper
63	100		
65	33.1	1.8	61.8

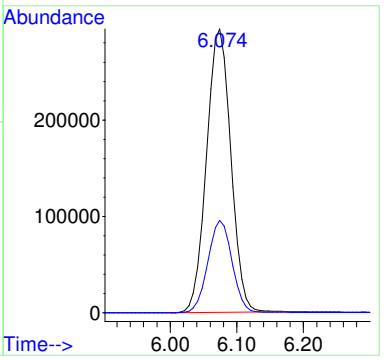


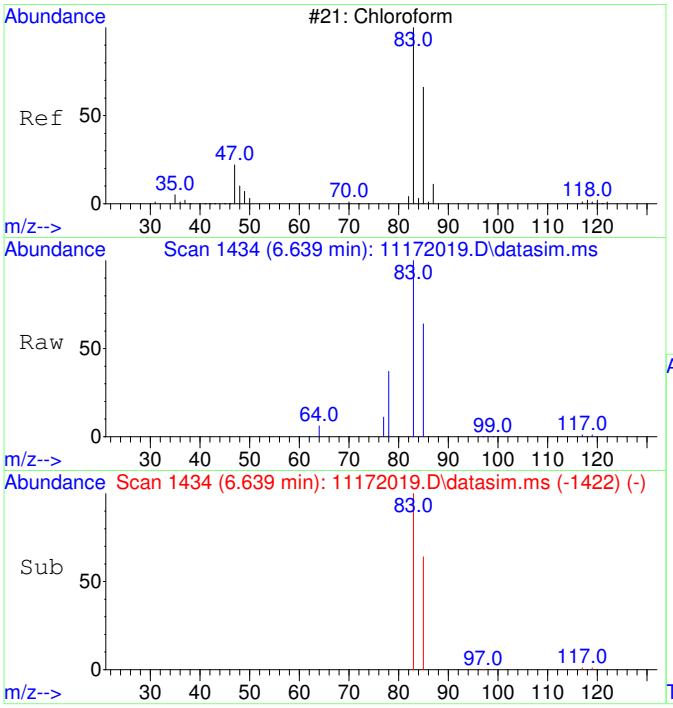


#5
cis-1,2-Dichloroethene
Concen: 35771.30 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 61 Resp: 746848

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.5	62.5

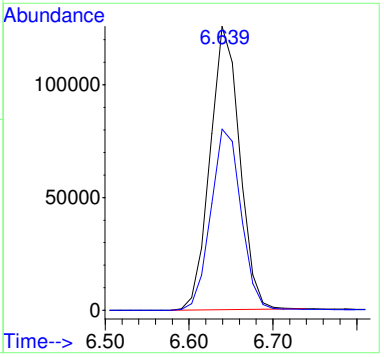


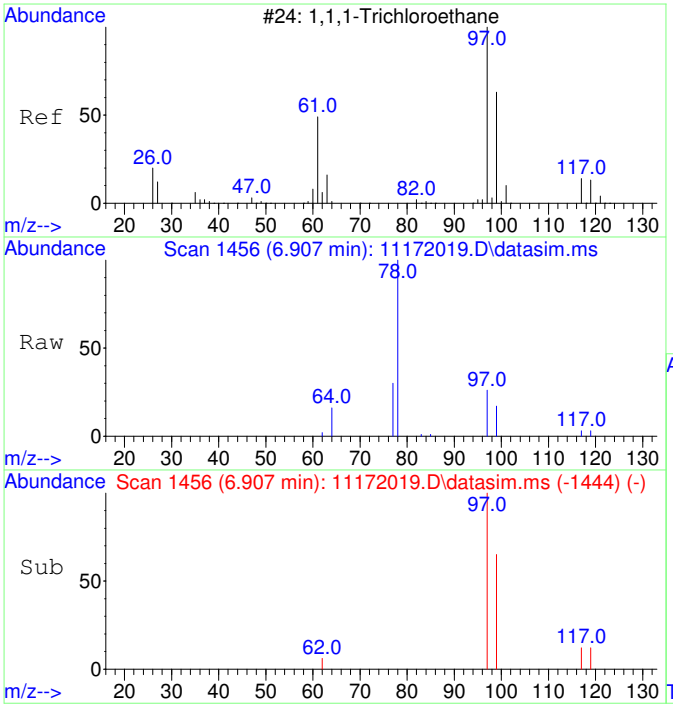


#6
Chloroform
Concen: 14374.69 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 83 Resp: 307185

Ion	Ratio	Lower	Upper
83	100		
85	65.1	35.1	95.1

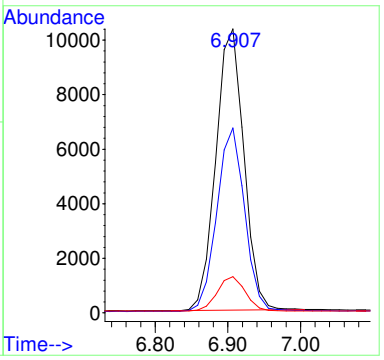


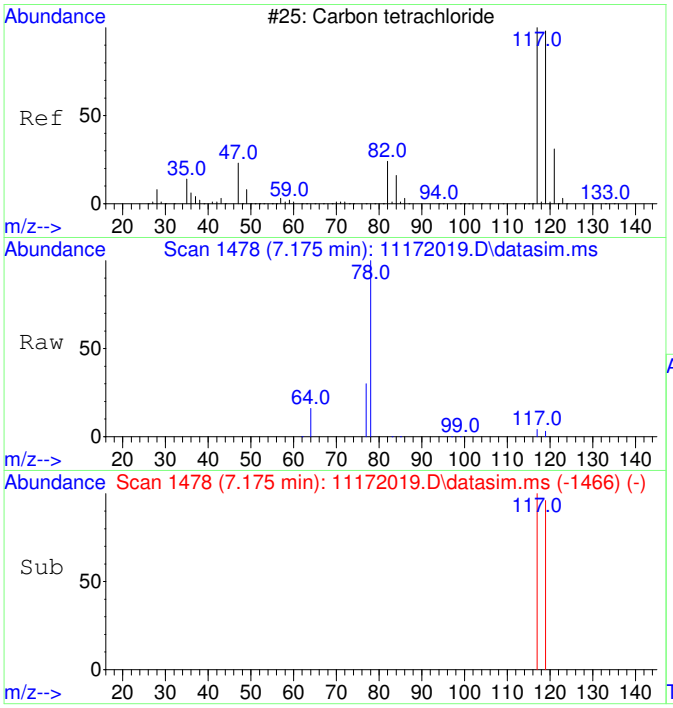


#7
1,1,1-Trichloroethane
Concen: 1192.74 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 97 Resp: 27681

Ion	Ratio	Lower	Upper
97	100		
99	64.1	34.6	94.6
117	12.2	0.0	43.2

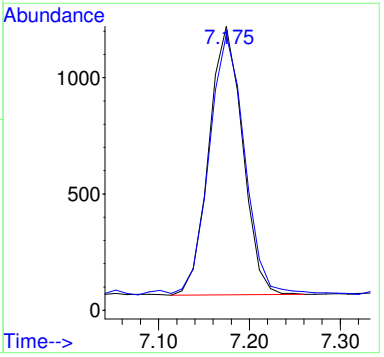


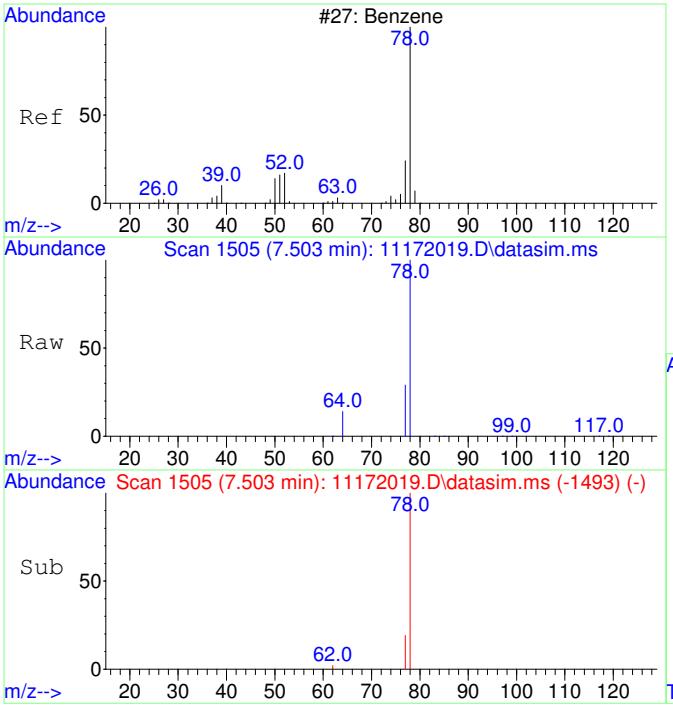


#8
Carbon tetrachloride
Concen: 136.15 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:117 Resp: 2974

Ion	Ratio	Lower	Upper
117	100		
119	101.2	66.4	126.4

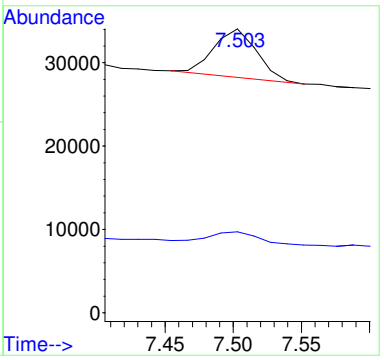


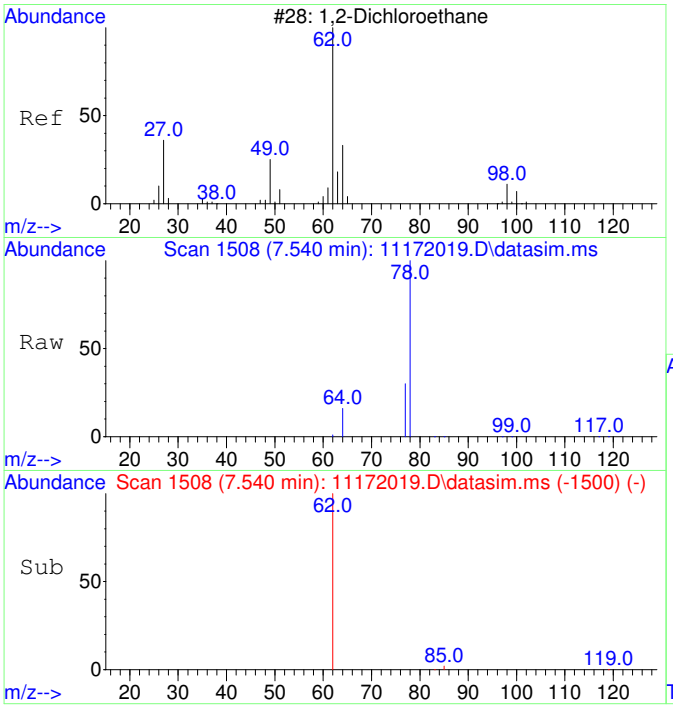


#9
Benzene
Concen: 207.94 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 78 Resp: 12168

Ion	Ratio	Lower	Upper
78	100		
77	43.5	0.0	53.2

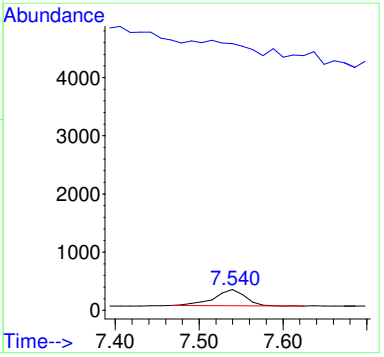


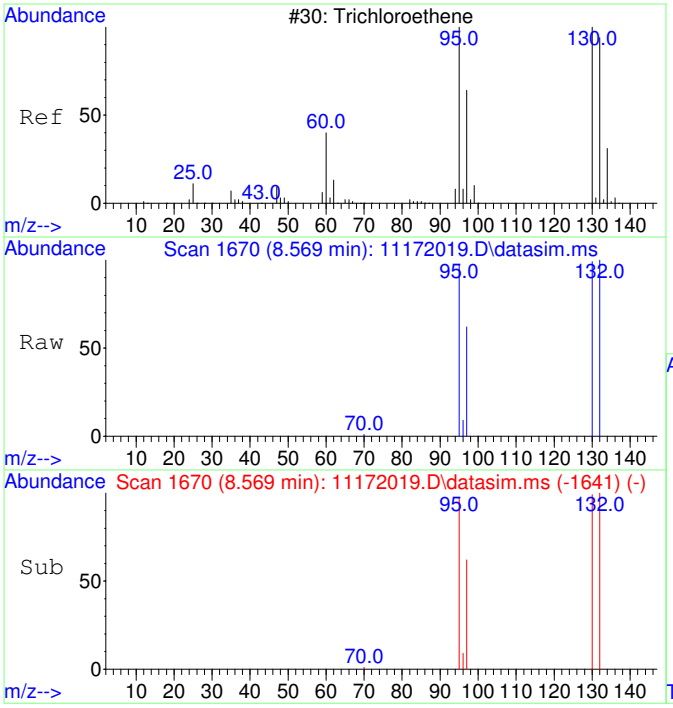


#10
1,2-Dichloroethane
Concen: 34.37 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 62 Resp: 718

Ion	Ratio	Lower	Upper
62	100		
64	0.0	2.3	62.3#

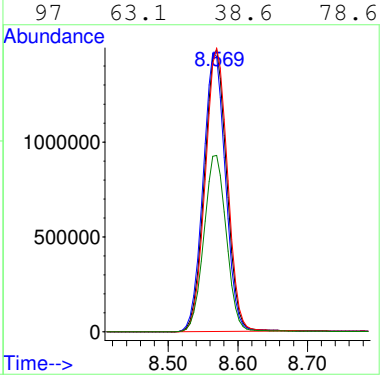


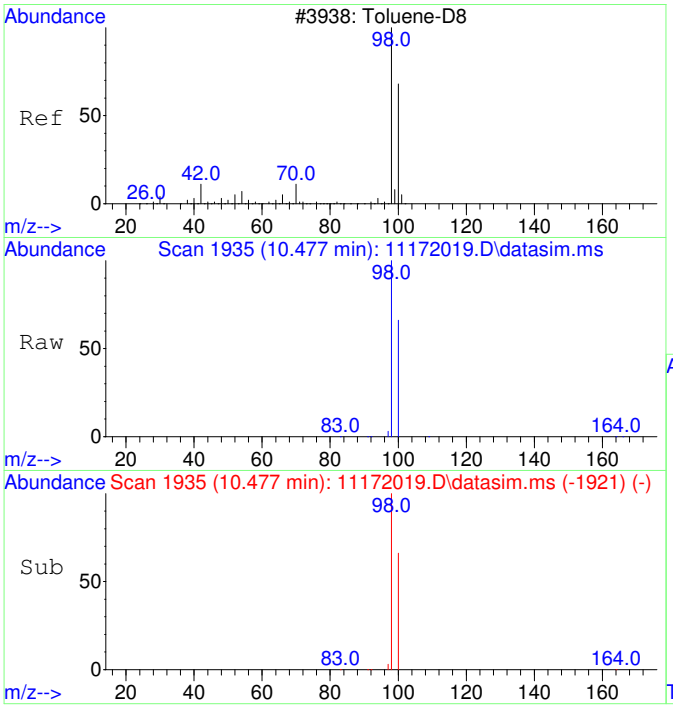


#11
Trichloroethene
Concen: 186673.23 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:130 Resp: 3288912

Ion	Ratio	Lower	Upper
130	100		
95	99.1	60.7	120.7
132	100.4	76.0	116.0
97	63.1	38.6	78.6

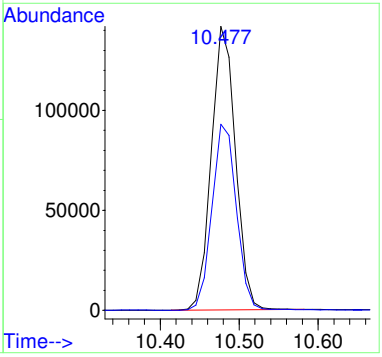


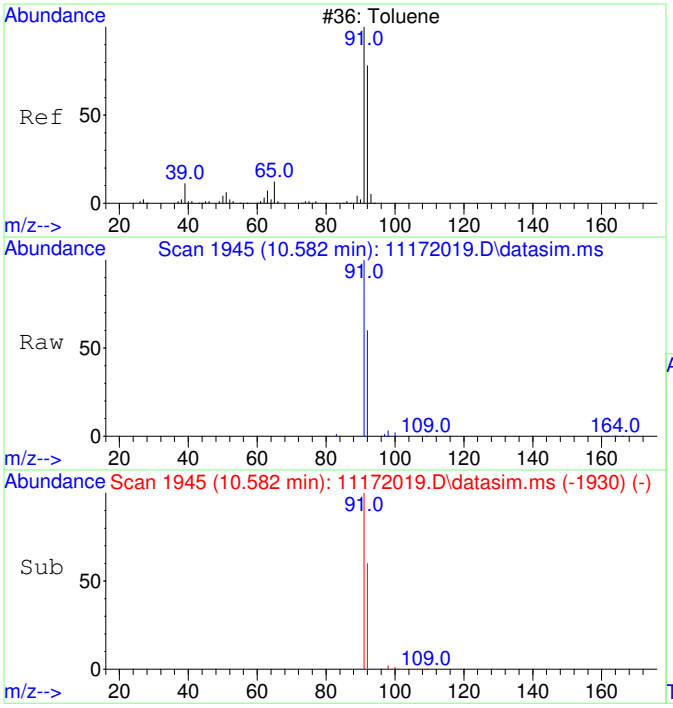


#12
Toluene-d8
Concen: 4463.45 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 98 Resp: 300931

Ion	Ratio	Lower	Upper
98	100		
100	66.1	37.1	97.1

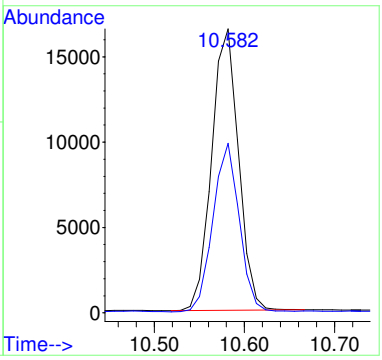


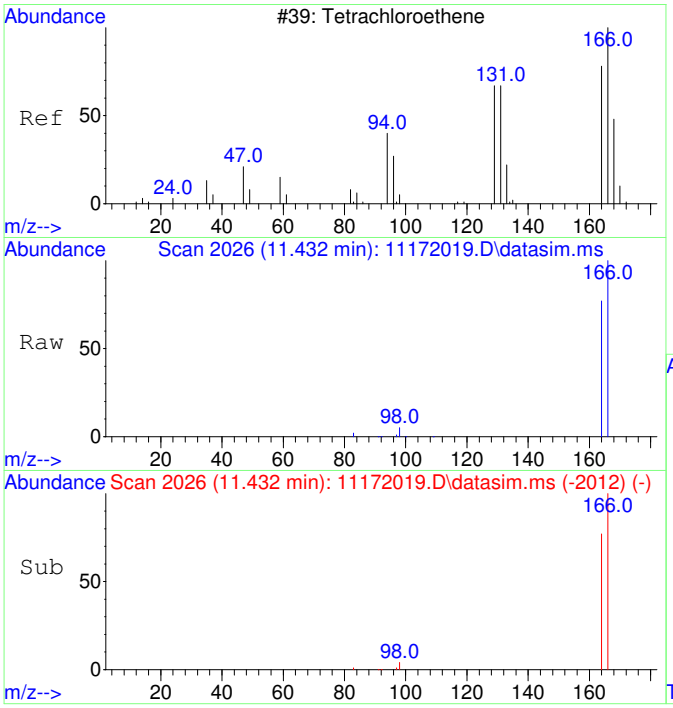


#13
Toluene
Concen: 397.82 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 34195

Ion	Ratio	Lower	Upper
91	100		
92	58.1	29.9	89.9

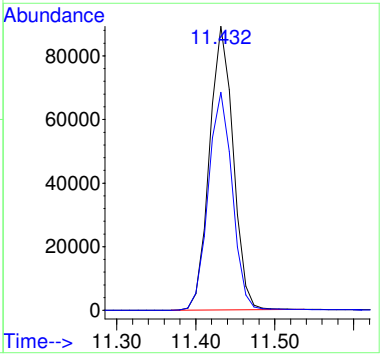


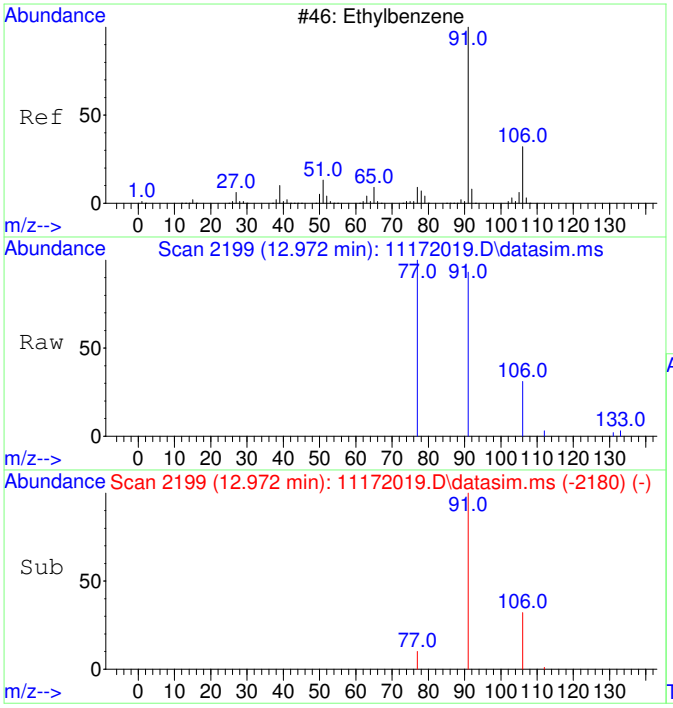


#15
Tetrachloroethene
Concen: 7446.14 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:166 Resp: 185226

Ion	Ratio	Lower	Upper
166	100		
164	77.3	47.8	107.8

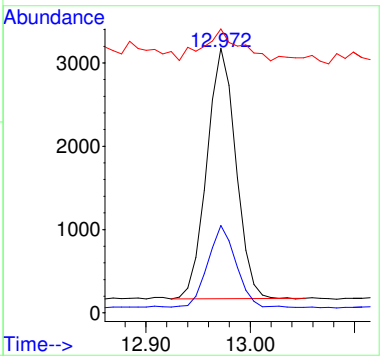


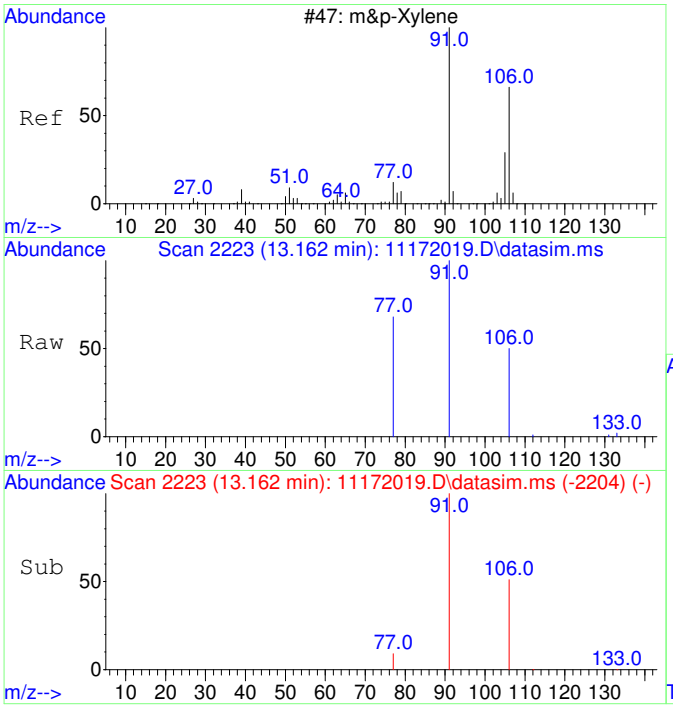


#18
Ethylbenzene
Concen: 55.45 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 5802

Ion	Ratio	Lower	Upper
91	100		
106	31.5	3.0	63.0
77	15.4	0.0	38.2

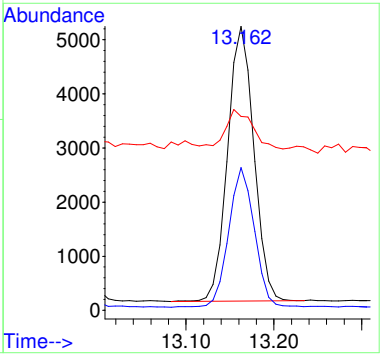


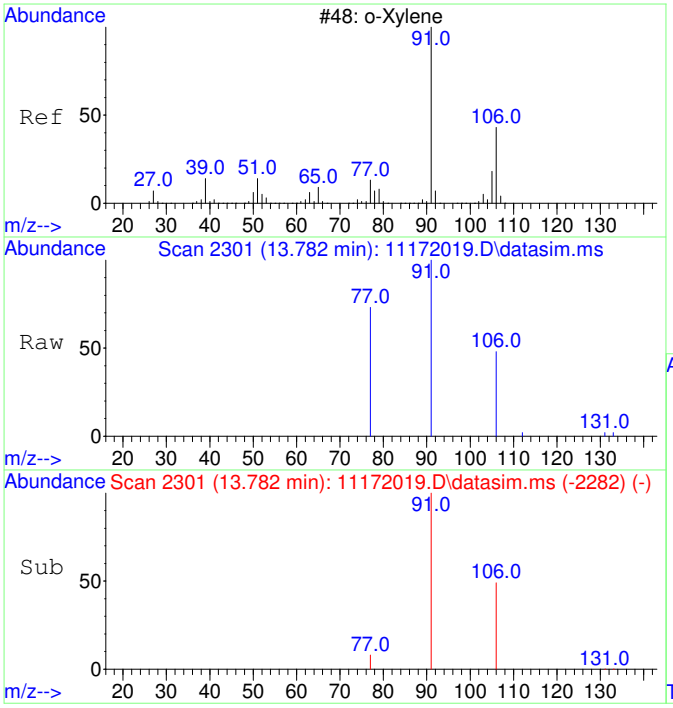


#19
m&p-Xylene
Concen: 128.17 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 10481

Ion	Ratio	Lower	Upper
91	100		
106	49.6	22.2	82.2
77	16.2	0.0	42.4

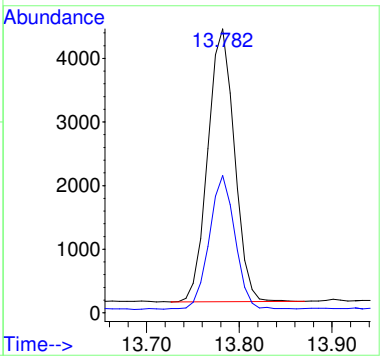


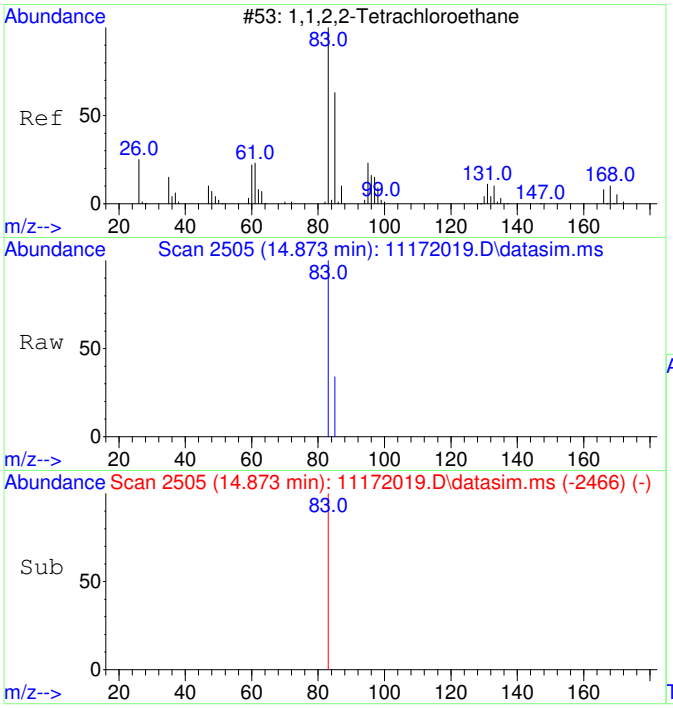


#20
o-Xylene
Concen: 97.88 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 8551

Ion	Ratio	Lower	Upper
91	100		
106	47.2	19.2	79.2

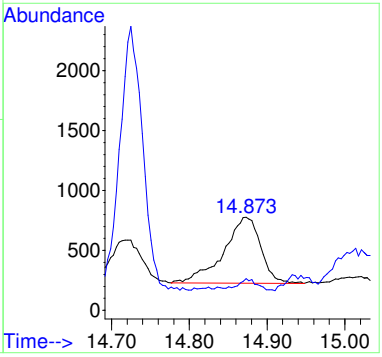


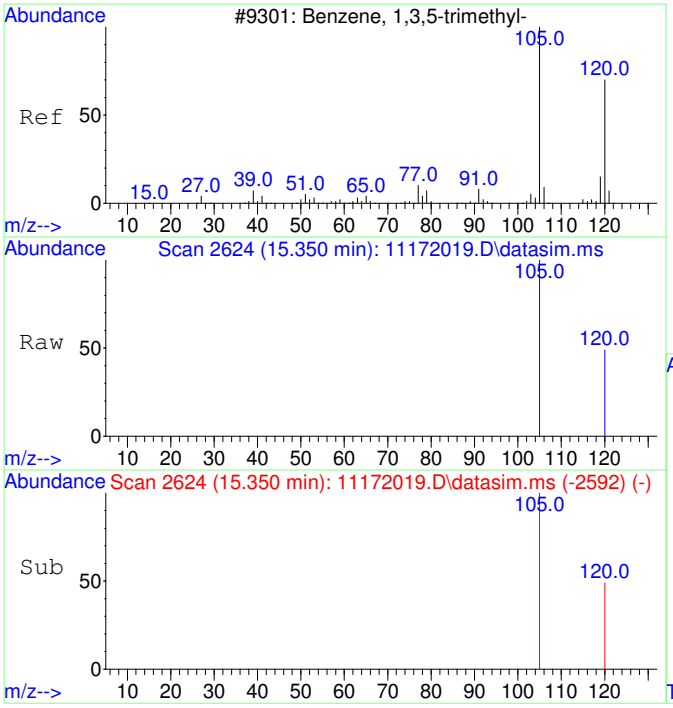


#21
1,1,2,2-Tetrachloroethane
Concen: 47.39 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. -0.004 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 83 Resp: 1835

Ion	Ratio	Lower	Upper
83	100		
85	7.8	34.8	94.8#

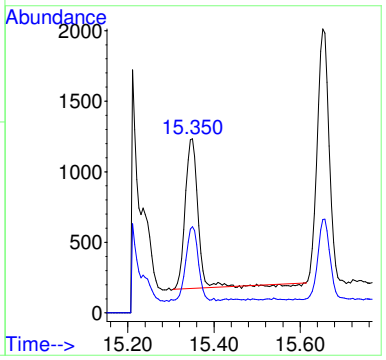


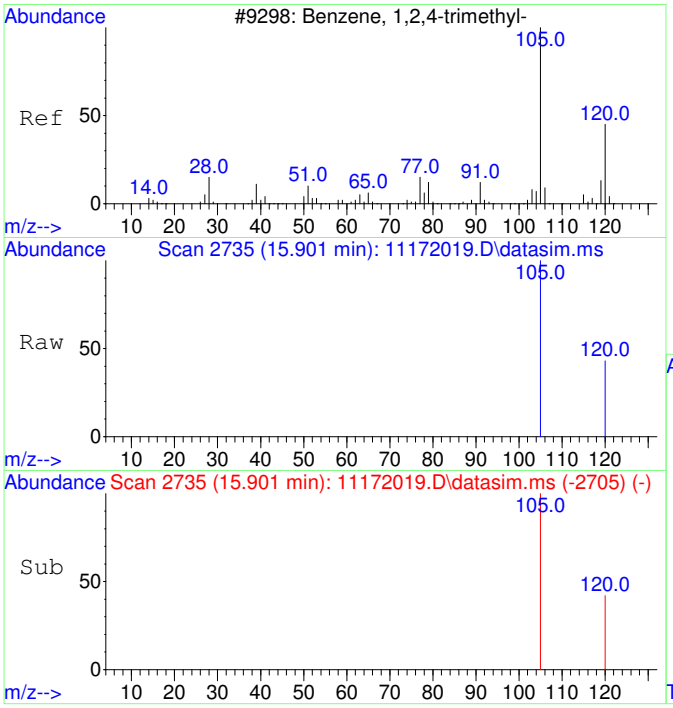


#22
1,3,5-Trimethylbenzene
Concen: 22.63 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:105 Resp: 2104

Ion	Ratio	Lower	Upper
105	100		
120	45.5	21.1	81.1

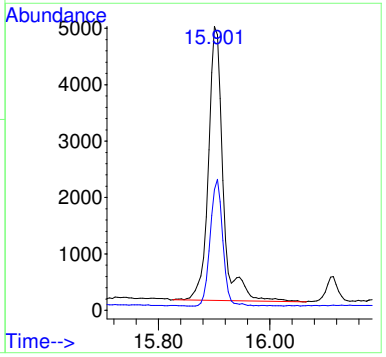


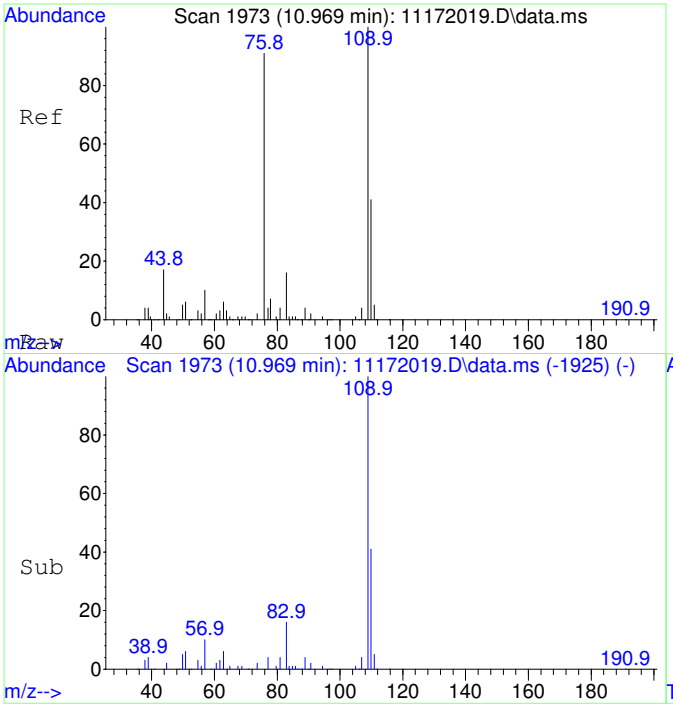


#23
1,2,4-Trimethylbenzene
Concen: 91.89 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:105 Resp: 8875

Ion	Ratio	Lower	Upper
105	100		
120	39.4	17.2	77.2

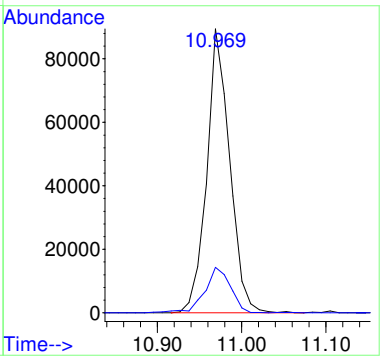


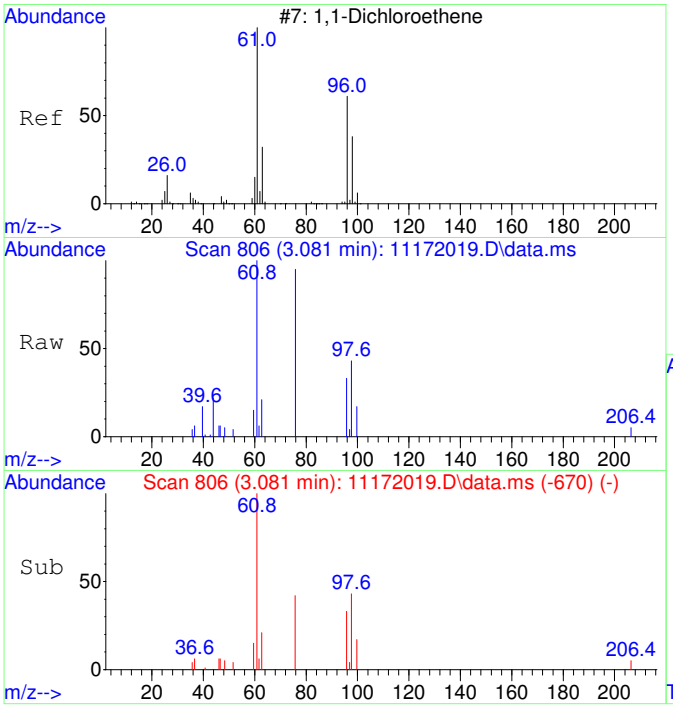


#25
2-Fluorotoluene SCAN
Concen: 5033.18 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:109 Resp: 168980

Ion	Ratio	Lower	Upper
109	100		
83	18.1	0.0	43.8

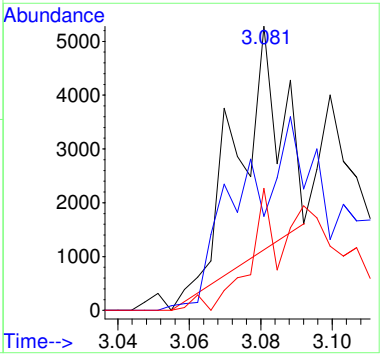


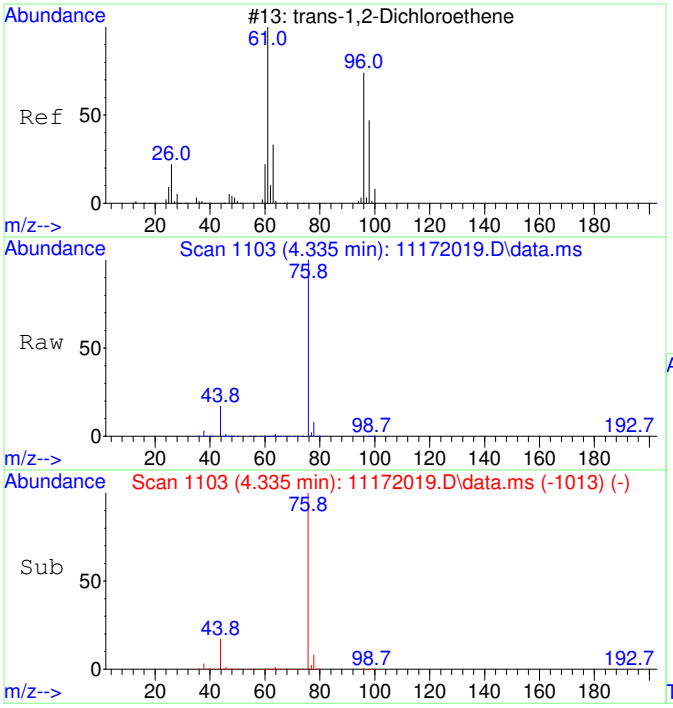


#26
1,1-Dichloroethene SCAN
Concen: 527.07 ug/L
RT: 3.081 min Scan# 806
Delta R.T. 0.004 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 61 Resp: 3758

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.1	93.1#
98	16.5	11.2	71.2

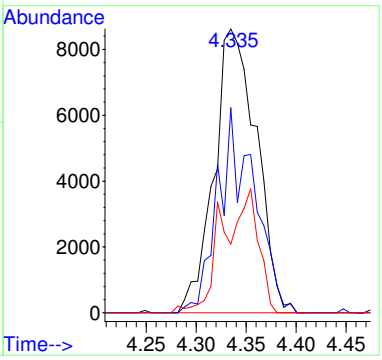


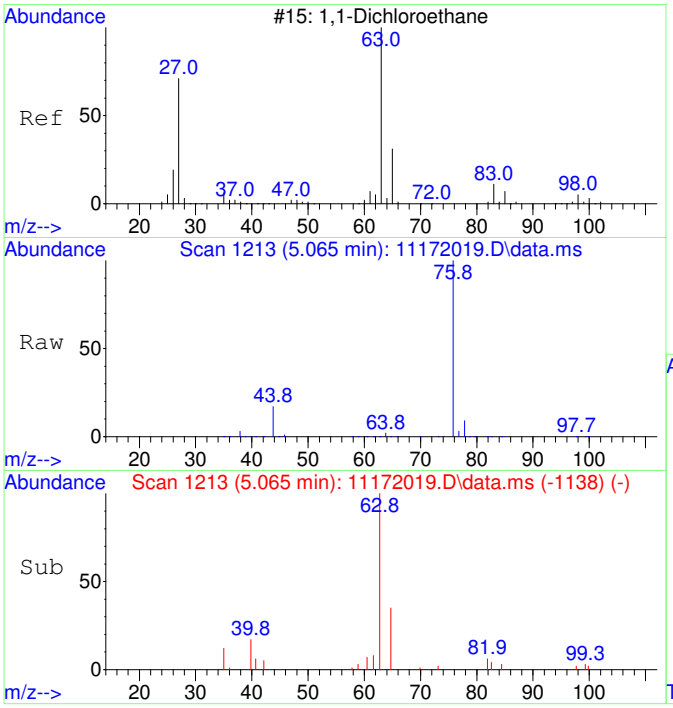


#27
trans-1,2-Dichloroethene SCAN
Concen: 2887.28 ug/L
RT: 4.335 min Scan# 1103
Delta R.T. -0.013 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 61 Resp: 25474

Ion	Ratio	Lower	Upper
61	100		
96	61.9	49.0	109.0
98	10.5	20.5	80.5#

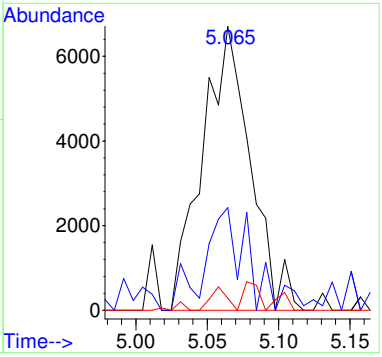


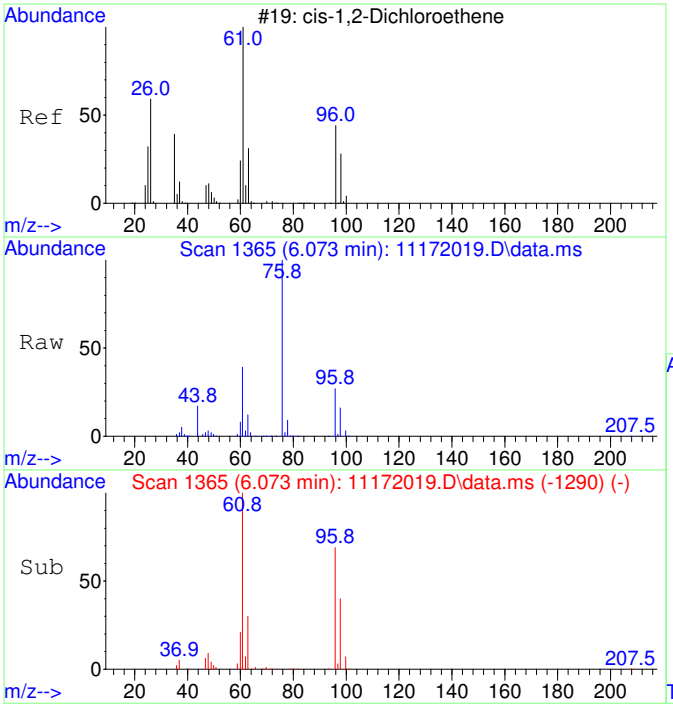


#28
1,1-Dichloroethane SCAN
Concen: 1540.63 ug/L
RT: 5.065 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 63 Resp: 15731

Ion	Ratio	Lower	Upper
63	100		
65	32.0	1.3	61.3
83	2.8	0.0	45.9

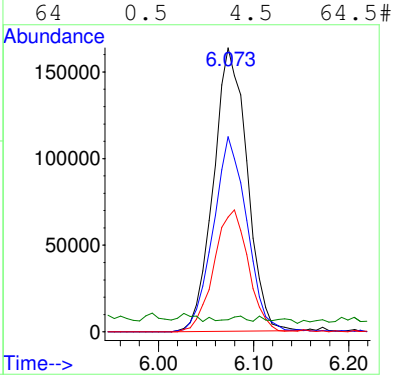


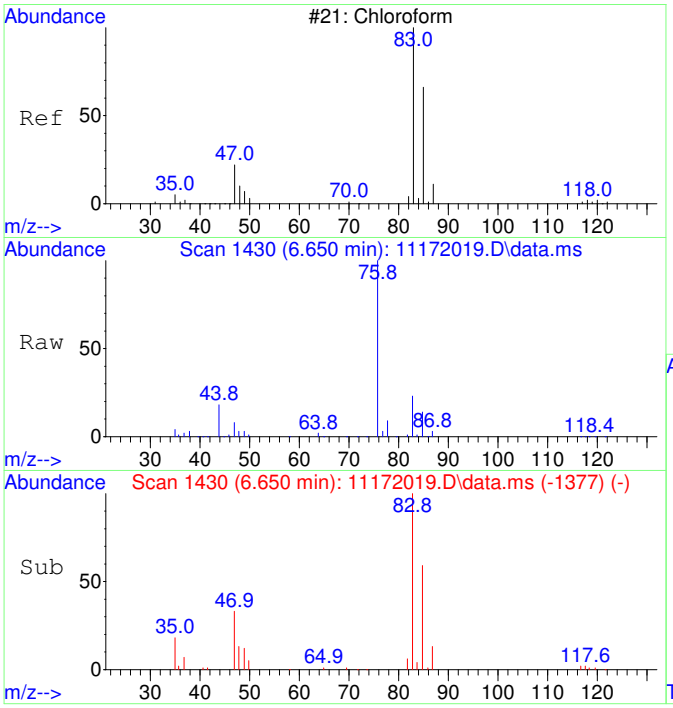


#29
cis-1,2-Dichloroethene SCAN
Concen: 36919.04 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 61 Resp: 403888

Ion	Ratio	Lower	Upper
61	100		
96	69.0	39.9	99.9
98	43.6	13.5	73.5
64	0.5	4.5	64.5#

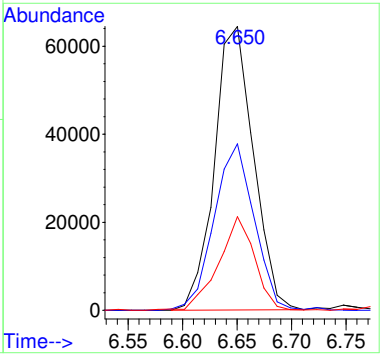


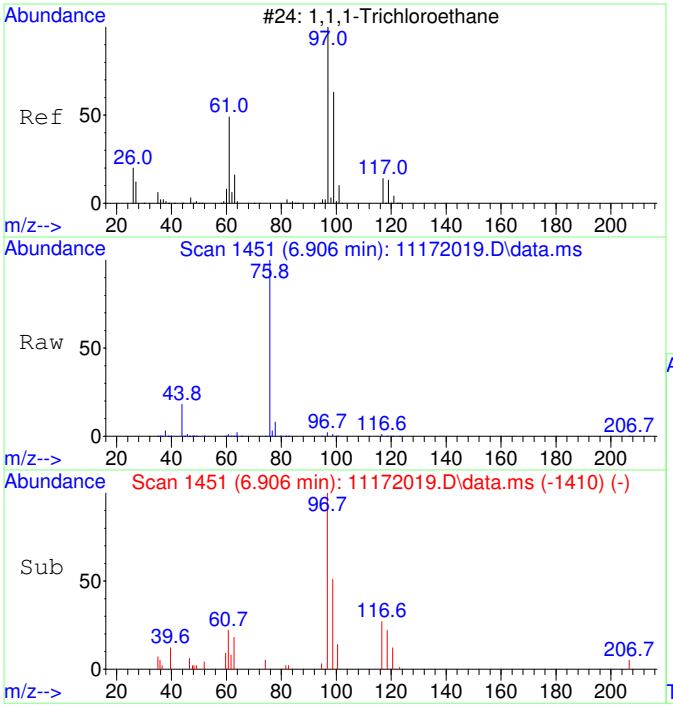


#30
Chloroform SCAN
Concen: 13560.94 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 83 Resp: 160911

Ion	Ratio	Lower	Upper
83	100		
85	60.4	34.6	94.6
47	30.5	0.0	53.4

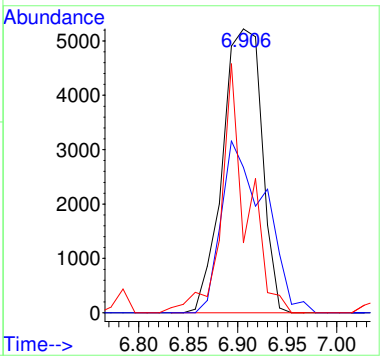


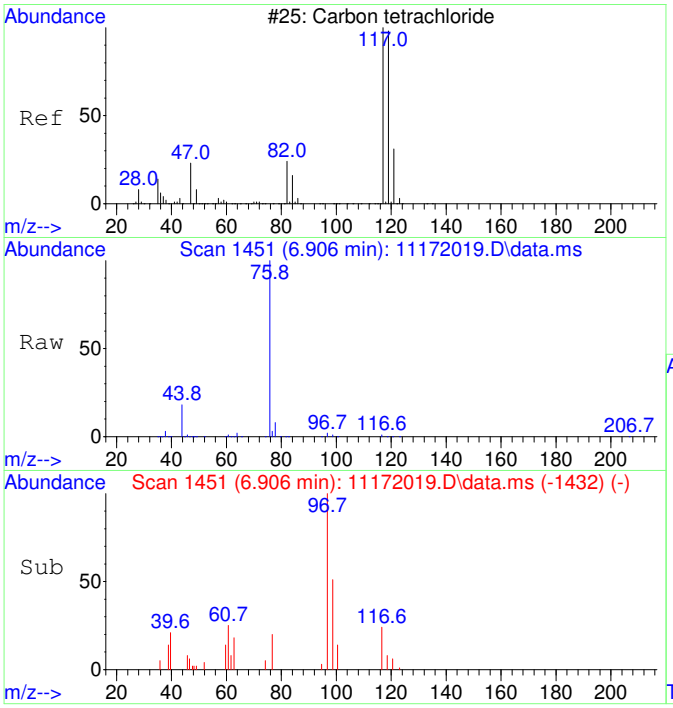


#31
1,1,1-Trichloroethane SCAN
Concen: 1338.94 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 97 Resp: 14478

Ion	Ratio	Lower	Upper
97	100		
99	66.9	43.6	103.6
61	56.9	18.0	78.0

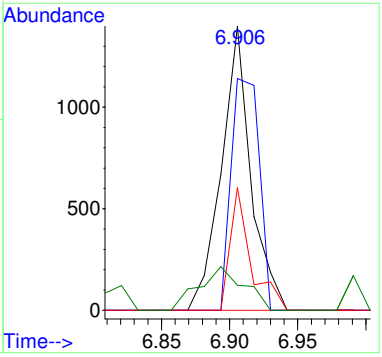


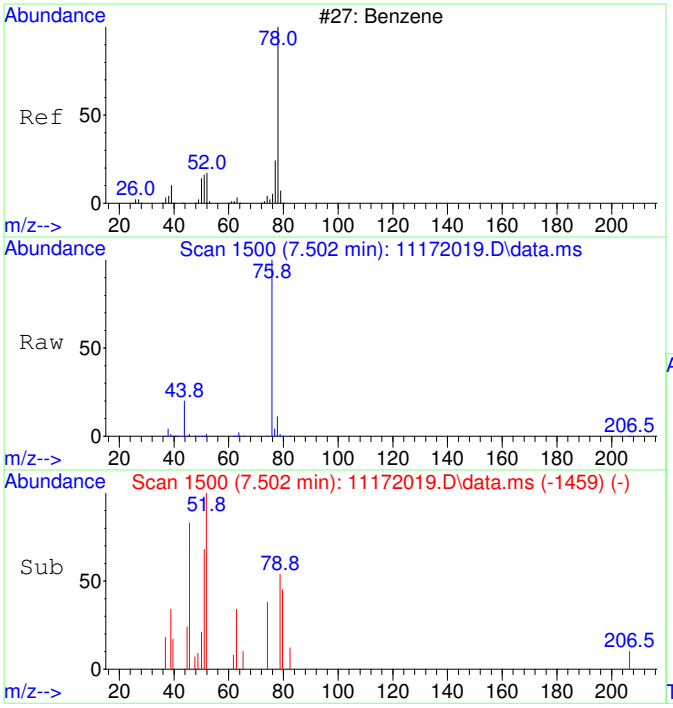


#32
Carbon tetrachloride SCAN
Concen: 186.72 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.268 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:117 Resp: 2106

Ion	Ratio	Lower	Upper
117	100		
119	77.9	75.5	135.5
121	30.1	0.0	58.8
82	23.6	0.0	59.2

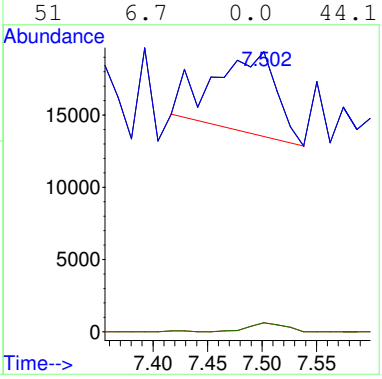


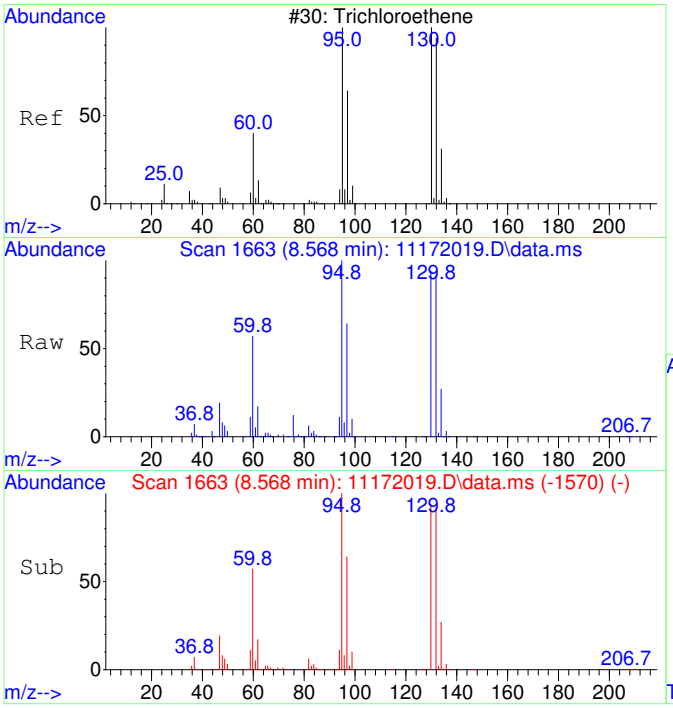


#33
Benzene SCAN
Concen: 722.45 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 78 Resp: 21509

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	6.7	0.0	47.9
51	6.7	0.0	44.1

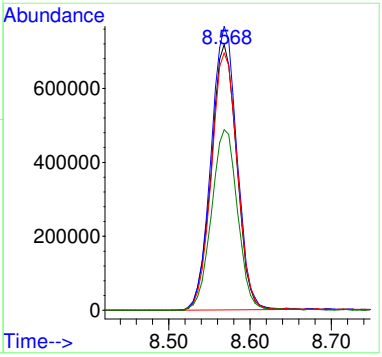


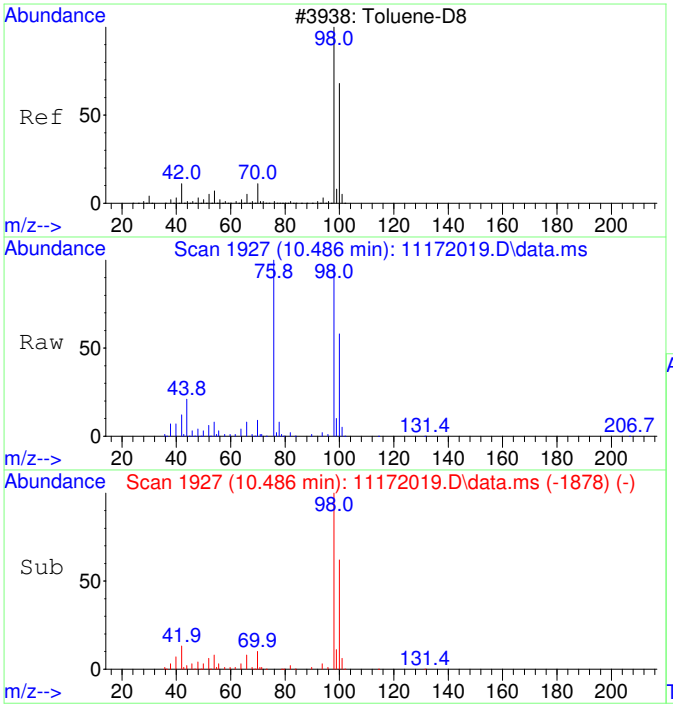


#35
Trichloroethene SCAN
Concen: 191863.11 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:130 Resp: 1569756

Ion	Ratio	Lower	Upper
130	100		
95	108.1	60.5	120.5
132	98.0	59.6	119.6
97	69.3	28.2	88.2

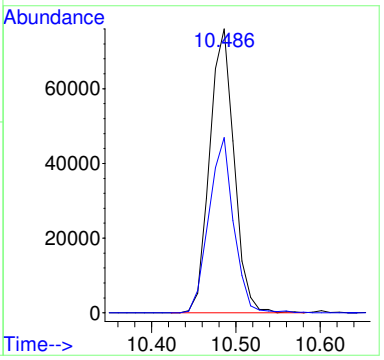


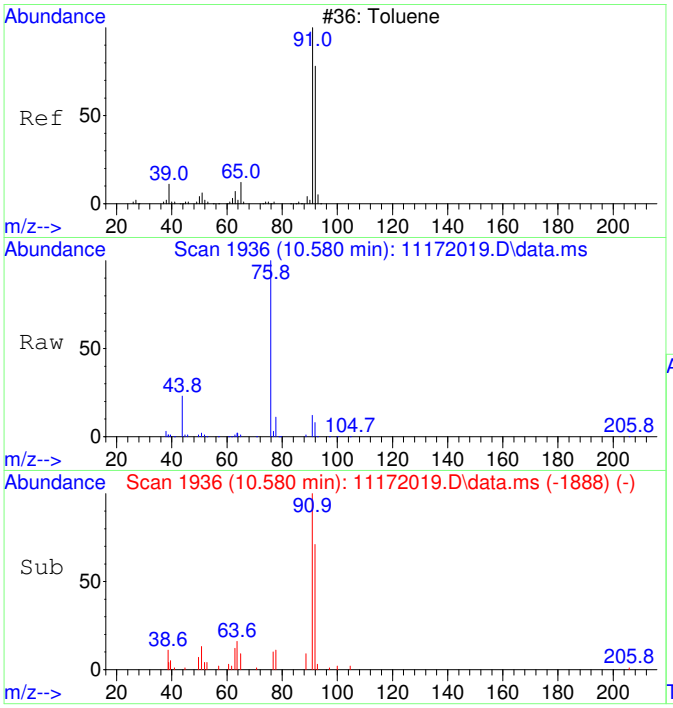


#36
Toluene-d8 SCAN
Concen: 4687.00 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 98 Resp: 153891

Ion	Ratio	Lower	Upper
98	100		
100	62.6	40.0	100.0

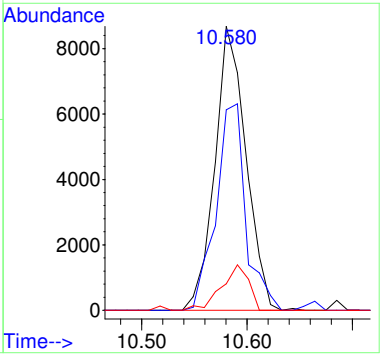


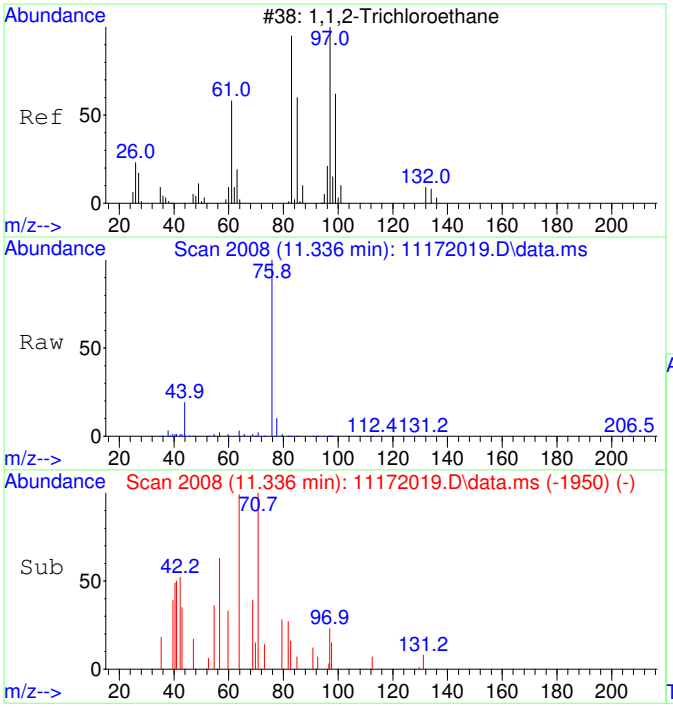


#37
Toluene SCAN
Concen: 424.80 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 17862

Ion	Ratio	Lower	Upper
91	100		
92	69.4	28.3	88.3
65	13.9	0.0	41.0

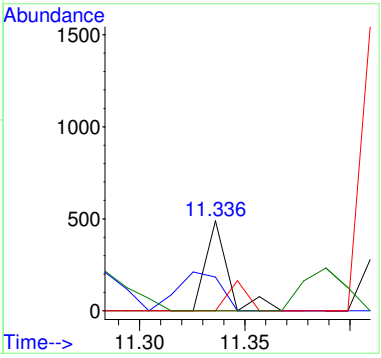


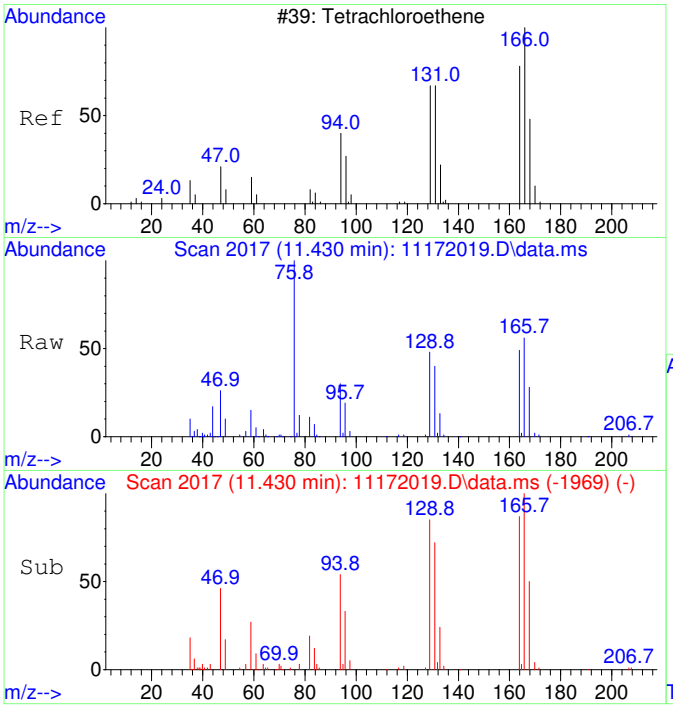


#38
1,1,2-Trichloroethane SCAN
Concen: 37.72 ug/L
RT: 11.336 min Scan# 2008
Delta R.T. 0.105 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 97 Resp: 356

Ion	Ratio	Lower	Upper
97	100		
83	85.4	57.7	117.7
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

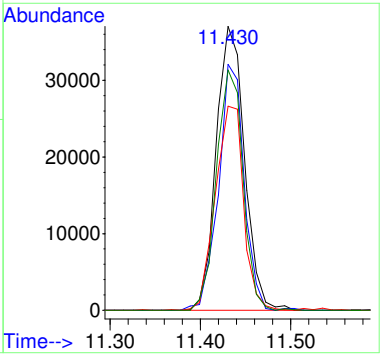


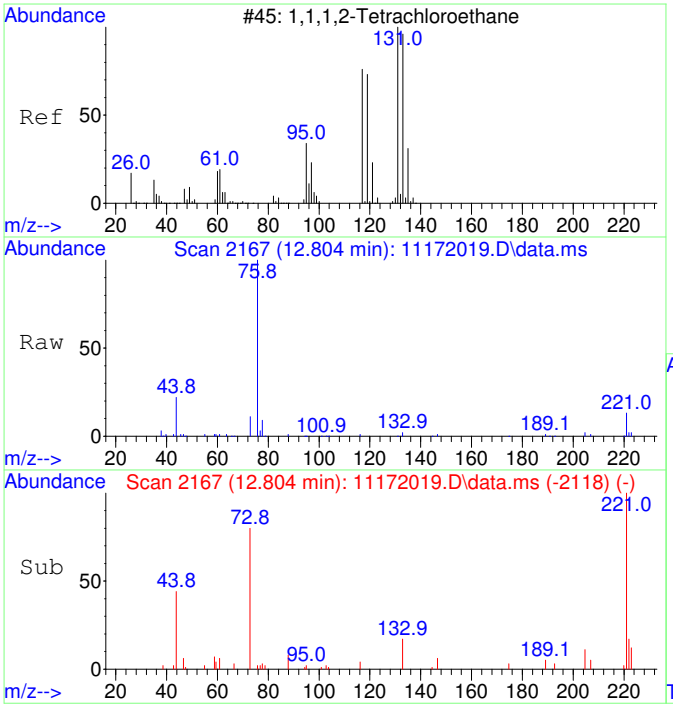


#39
Tetrachloroethene SCAN
Concen: 8012.49 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:166 Resp: 80942

Ion	Ratio	Lower	Upper
166	100		
164	78.3	50.9	110.9
131	71.4	38.7	98.7
129	79.4	41.8	101.8

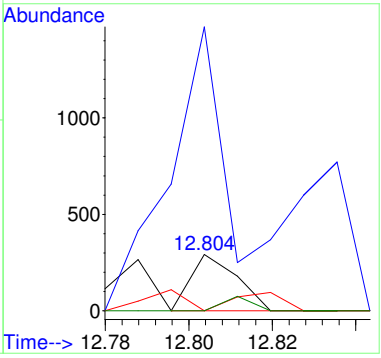


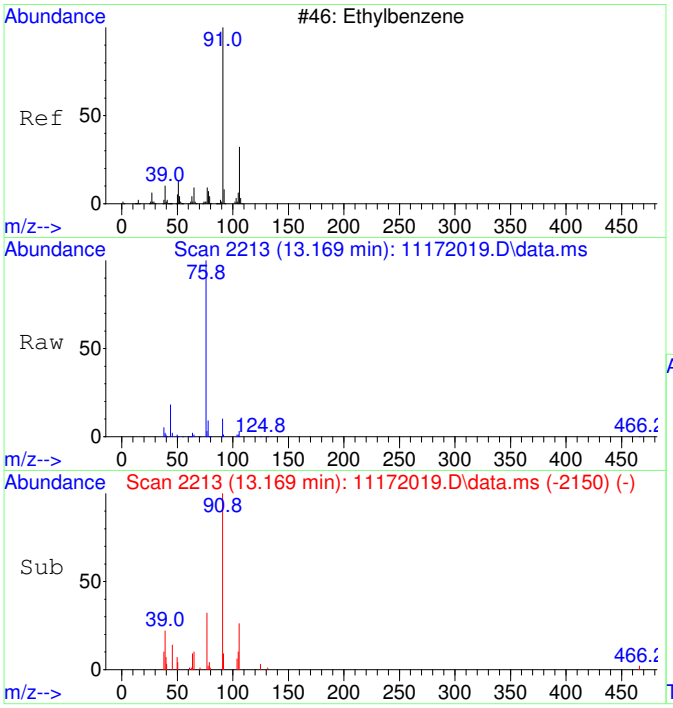


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 21.16 ug/L
RT: 12.804 min Scan# 2167
Delta R.T. -0.111 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:131 Resp: 225

Ion	Ratio	Lower	Upper
131	100		
133	475.1	66.9	126.9#
119	33.8	40.4	100.4#
117	0.0	35.1	95.1#

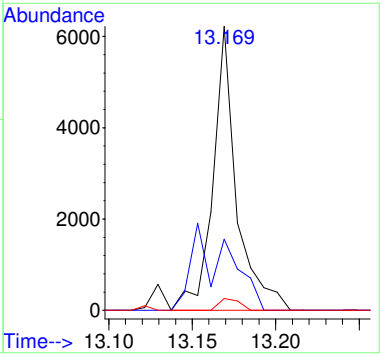


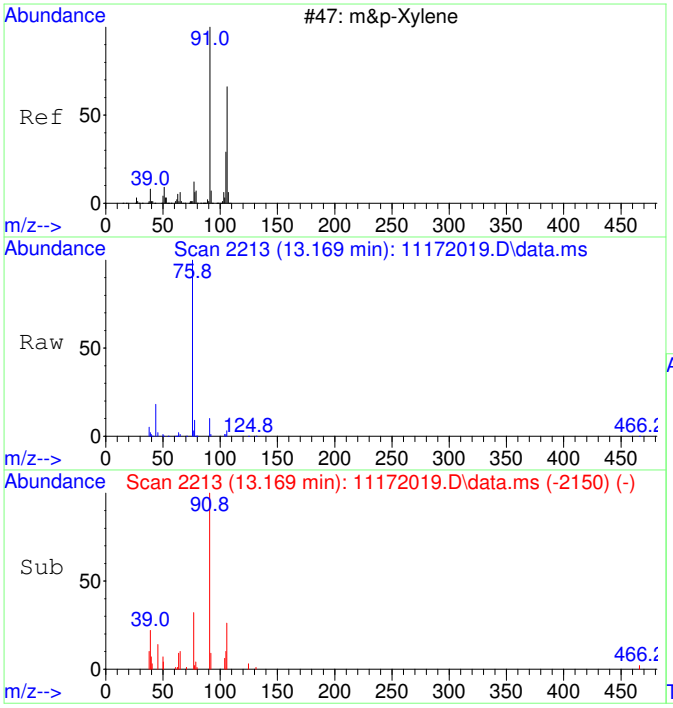


#42
Ethylbenzene SCAN
Concen: 80.02 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 6130

Ion	Ratio	Lower	Upper
91	100		
106	46.5	23.1	83.1
51	3.6	0.0	40.1

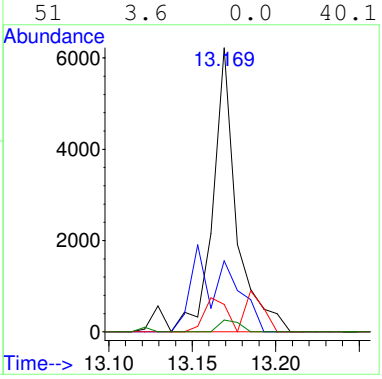


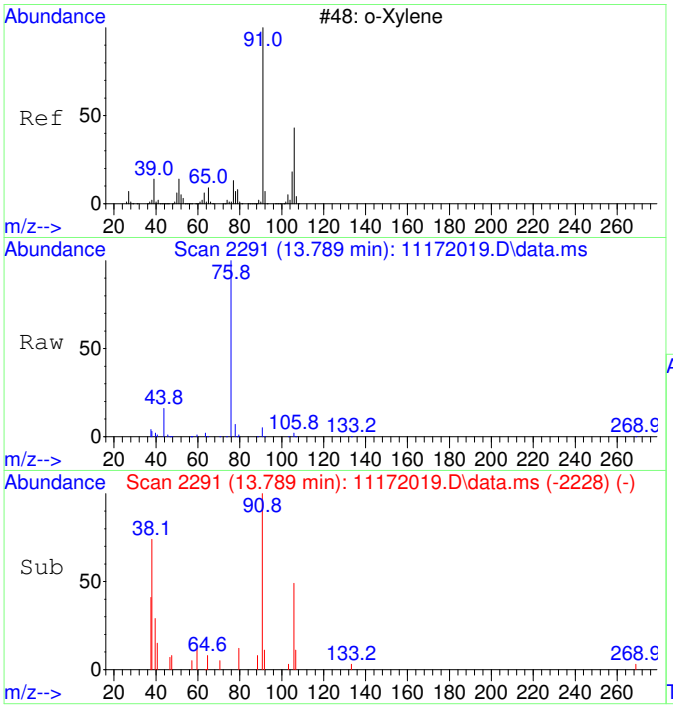


#43
m&p-Xylene SCAN
Concen: 80.02 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 6130

Ion	Ratio	Lower	Upper
91	100		
106	46.5	23.1	83.1
105	11.4	0.0	54.7
51	3.6	0.0	40.1

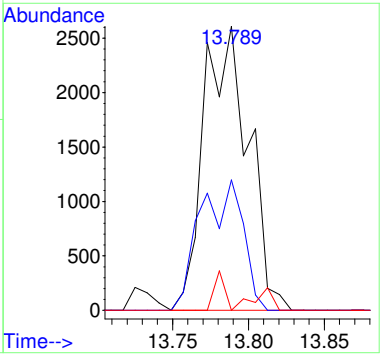


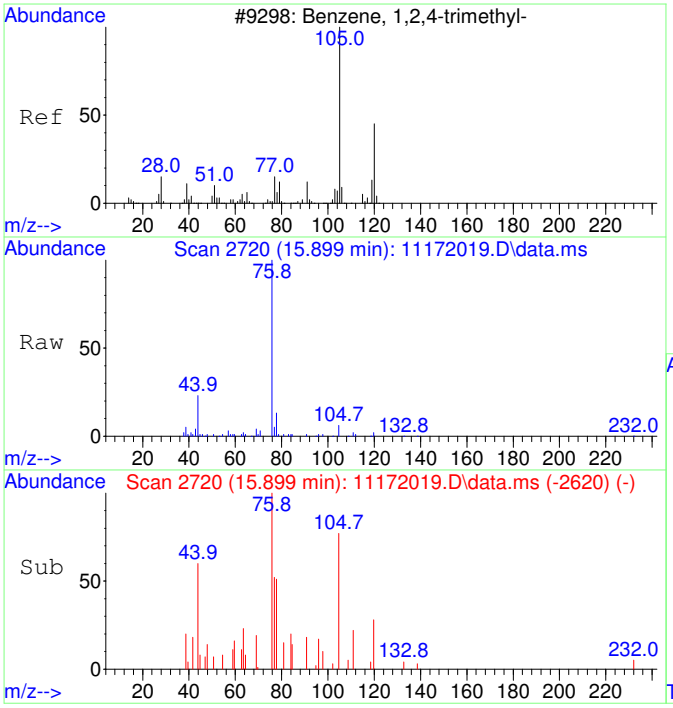


#44
o-Xylene SCAN
Concen: 131.40 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion: 91 Resp: 5388

Ion	Ratio	Lower	Upper
91	100		
106	43.8	18.0	78.0
105	3.5	0.0	56.6

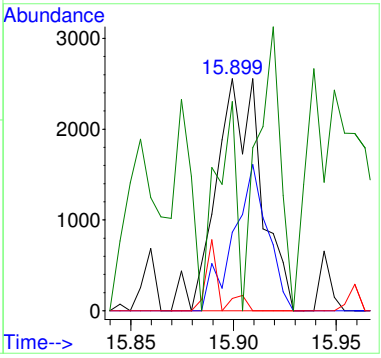




#47
1,2,4-Trimethylbenzene SCAN
Concen: 87.81 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.005 min
Lab File: 11172019.D
Acq: 17 Nov 2020 15:00

Tgt Ion:105 Resp: 3883

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.9	76.9#
119	9.3	0.0	41.9
77	40.5	0.0	42.3



2011017-09

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172020.D
Acq On : 17 Nov 2020 15:24
InstName : AG5975C
Operator : TD
Sample : 2011017-09
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 23 09:02:18 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

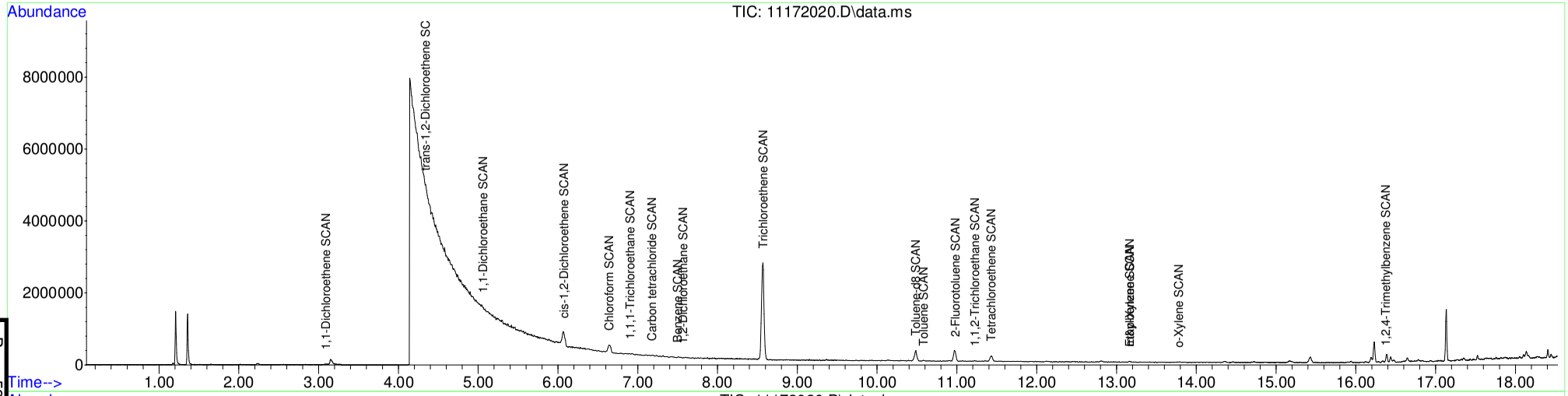
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	508629	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	434024	4359.00 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.18%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	22480	1106.82 ug/L	86
3] trans-1,2-Dichloroethene	4.329	61	29583	1260.68 ug/L	98
4] 1,1-Dichloroethane	5.059	63	27430	939.04 ug/L	98
5] cis-1,2-Dichloroethene	6.068	61	534886	17347.36 ug/L	99
6] Chloroform	6.639	83	363622	11521.74 ug/L	100
7] 1,1,1-Trichloroethane	6.895	97	21626	630.97 ug/L	99
8] Carbon tetrachloride	7.175	117	3839	119.01 ug/L	100
9] Benzene	7.503	78	13509	156.32 ug/L	55
10] 1,2-Dichloroethane	7.539	62	1934	62.69 ug/L	77
11] Trichloroethene	8.564	130	2044913	78591.26 ug/L **OC**	94
13] Toluene	10.582	91	36151	284.78 ug/L	98
15] Tetrachloroethene	11.432	166	112411	3059.90 ug/L	100
18] Ethylbenzene	12.972	91	9212	59.62 ug/L	94
19] m&p-Xylene	13.162	91	23533	194.87 ug/L	96
20] o-Xylene	13.782	91	15154	117.45 ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.865	83	1385	24.22 ug/L #	18
22] 1,3,5-Trimethylbenzene	15.345	105	5154	37.53 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	17833	125.02 ug/L	94
25) 2-Fluorotoluene SCAN	10.979	109	249209	5026.20 ug/L	96
26) 1,1-Dichloroethene SCAN	3.084	61	7927	752.82 ug/L #	60
27) trans-1,2-Dichloroethe...	4.335	61	17763	1363.26 ug/L	84
28) 1,1-Dichloroethane SCAN	5.064	63	17746	1176.83 ug/L	66
29) cis-1,2-Dichloroethene...	6.073	61	298697	18488.00 ug/L #	84
30) Chloroform SCAN	6.638	83	182428	10410.35 ug/L	93
31) 1,1,1-Trichloroethane ...	6.906	97	11729	734.48 ug/L #	69
32) Carbon tetrachloride SCAN	7.173	117	1242	74.56 ug/L #	64
33) Benzene SCAN	7.502	78	14441	328.44 ug/L	99
34) 1,2-Dichloroethane SCAN	7.562	62	1252	77.11 ug/L #	40
35) Trichloroethene SCAN	8.568	130	946258	78313.83 ug/L	84
36) Toluene-d8 SCAN	10.486	98	212073	4373.57 ug/L	95
37) Toluene SCAN	10.580	91	19436	312.99 ug/L	97
38) 1,1,2-Trichloroethane ...	11.220	97	744	53.38 ug/L #	50
39) Tetrachloroethene SCAN	11.430	166	46915	3144.67 ug/L	91
42) Ethylbenzene SCAN	13.161	91	11614	102.66 ug/L	89
43) m&p-Xylene SCAN	13.161	91	11614	102.66 ug/L	90
44) o-Xylene SCAN	13.781	91	9106	150.37 ug/L	84
47) 1,2,4-Trimethylbenzene...	16.371	105	1498	22.94 ug/L	72

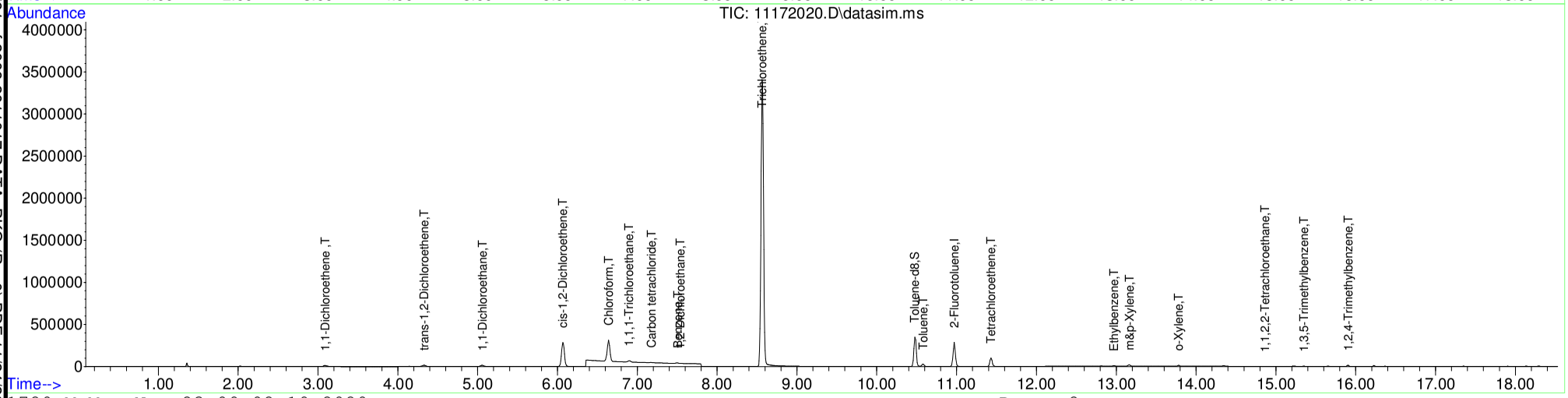
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172020.D
Acq On : 17 Nov 2020 15:24
InstName : AG5975C
Operator : TD
Sample : 2011017-09
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 23 09:02:18 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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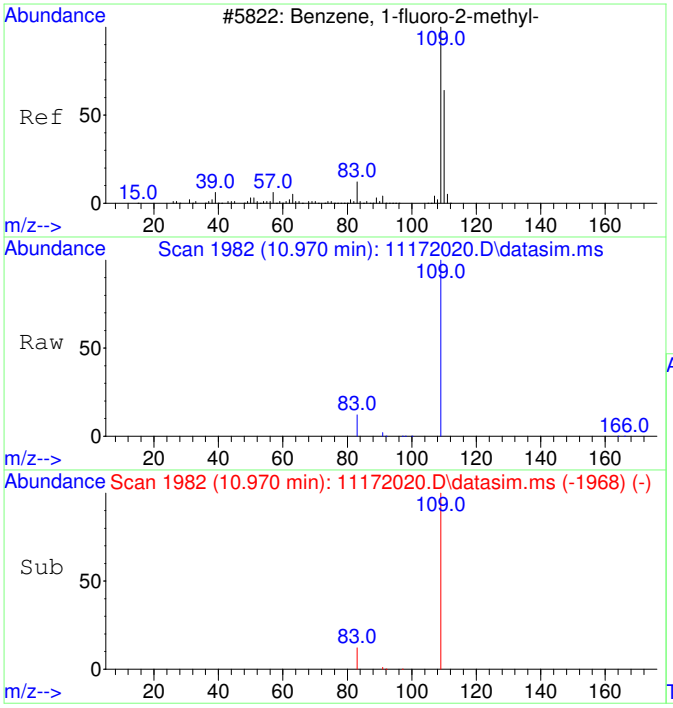
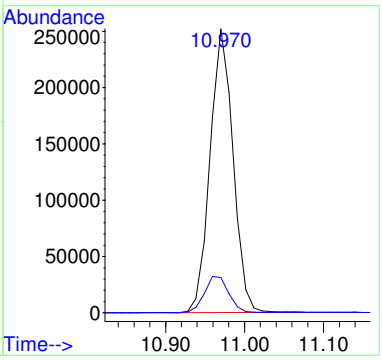
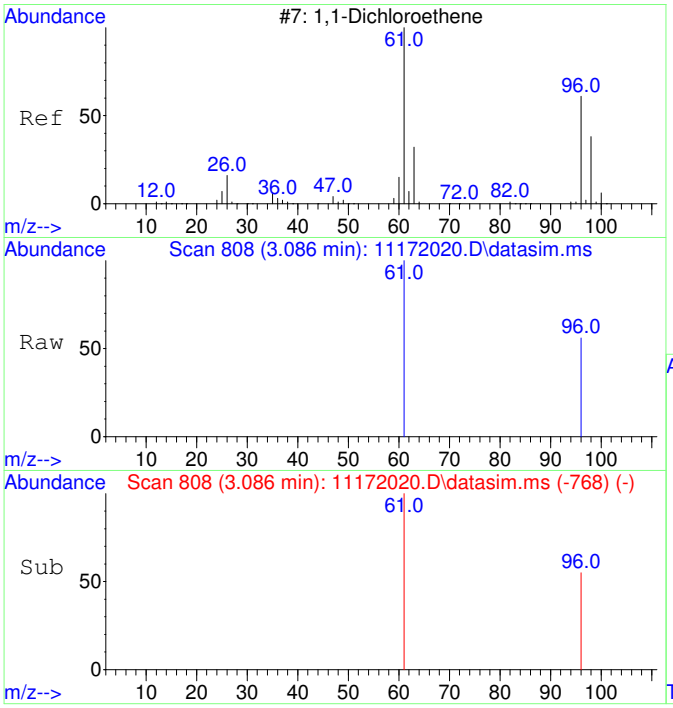


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion:109 Resp: 508629

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

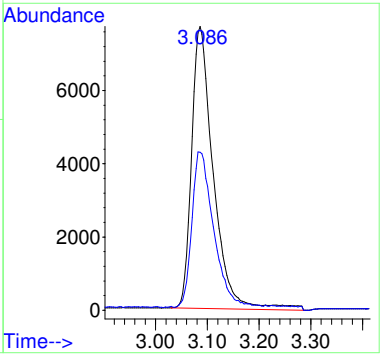


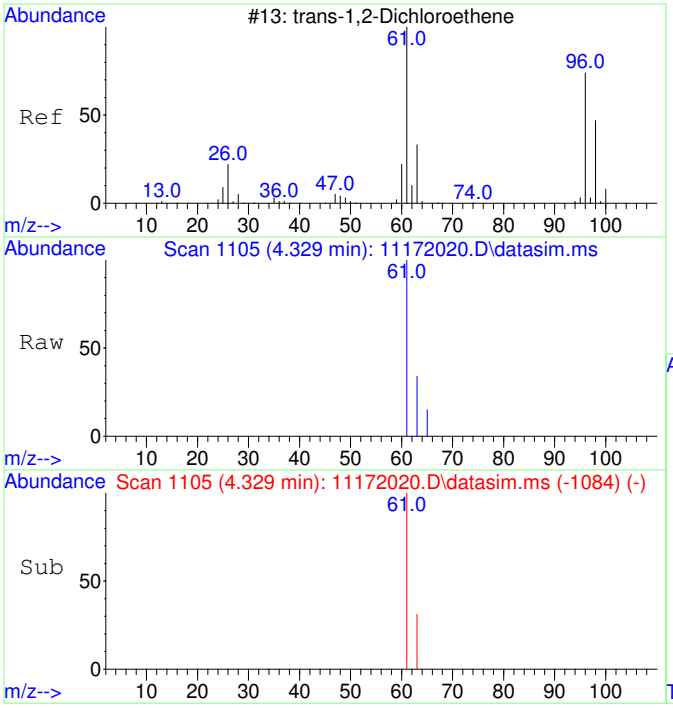


#2
1,1-Dichloroethene
Concen: 1106.82 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 61 Resp: 22480

Ion	Ratio	Lower	Upper
61	100		
96	56.3	37.2	97.2

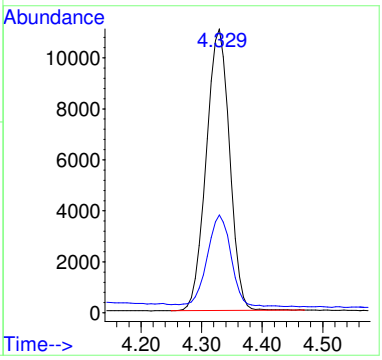


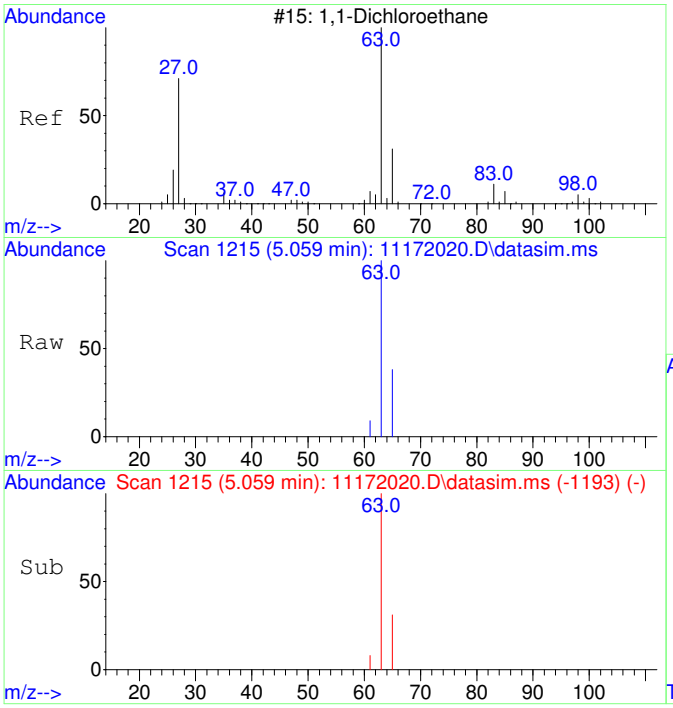


#3
trans-1,2-Dichloroethene
Concen: 1260.68 ug/L
RT: 4.329 min Scan# 1105
Delta R.T. -0.013 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 61 Resp: 29583

Ion	Ratio	Lower	Upper
61	100		
63	33.3	2.4	62.4

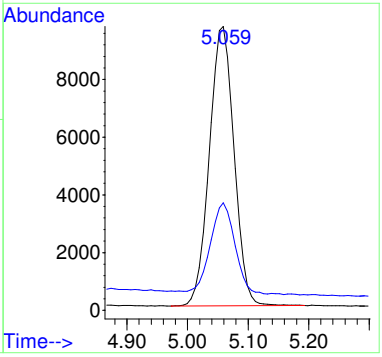


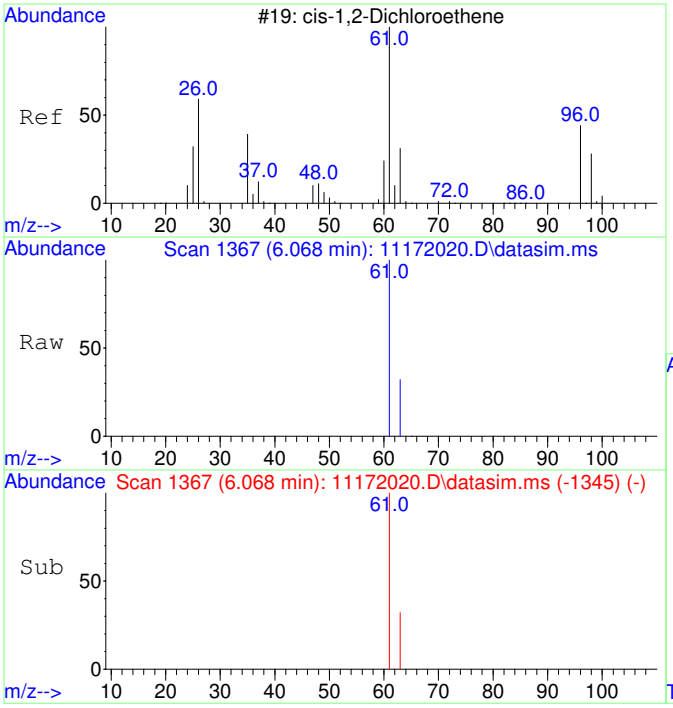


#4
1,1-Dichloroethane
Concen: 939.04 ug/L
RT: 5.059 min Scan# 1215
Delta R.T. -0.007 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 63 Resp: 27430

Ion	Ratio	Lower	Upper
63	100		
65	32.8	1.8	61.8

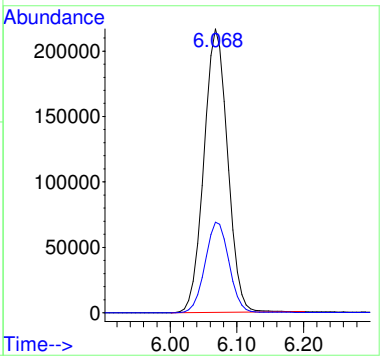


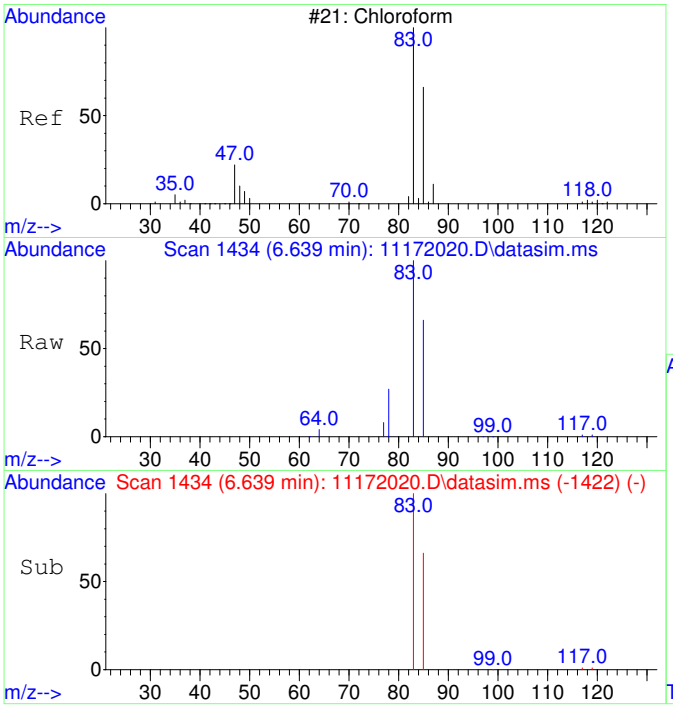


#5
cis-1,2-Dichloroethene
Concen: 17347.36 ug/L
RT: 6.068 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 61 Resp: 534886

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.5	62.5

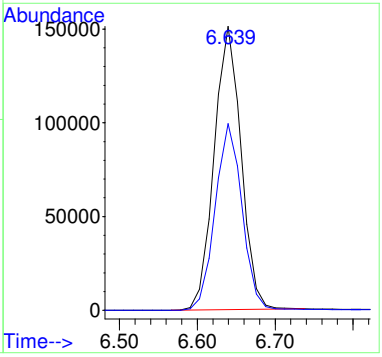


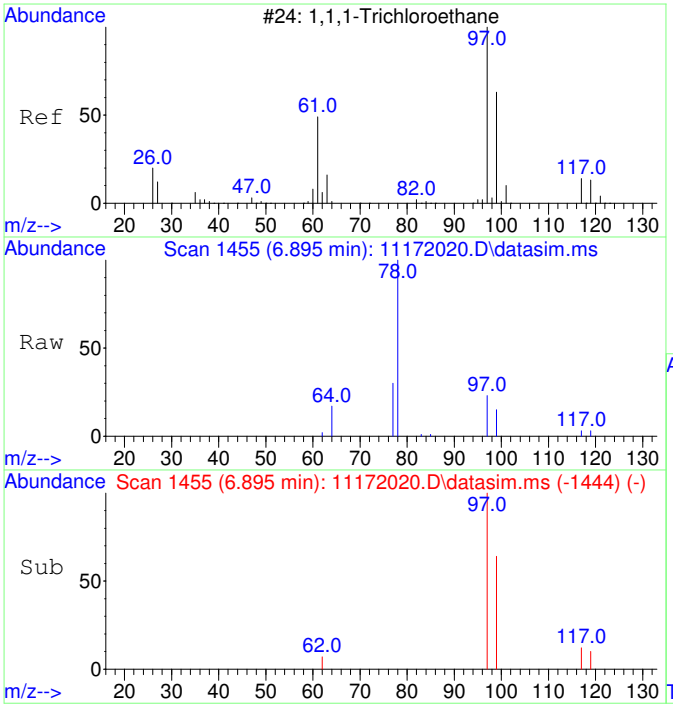


#6
Chloroform
Concen: 11521.74 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 83 Resp: 363622

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.1	95.1

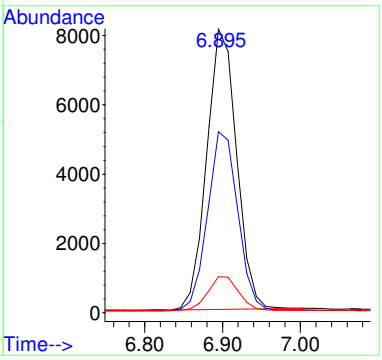


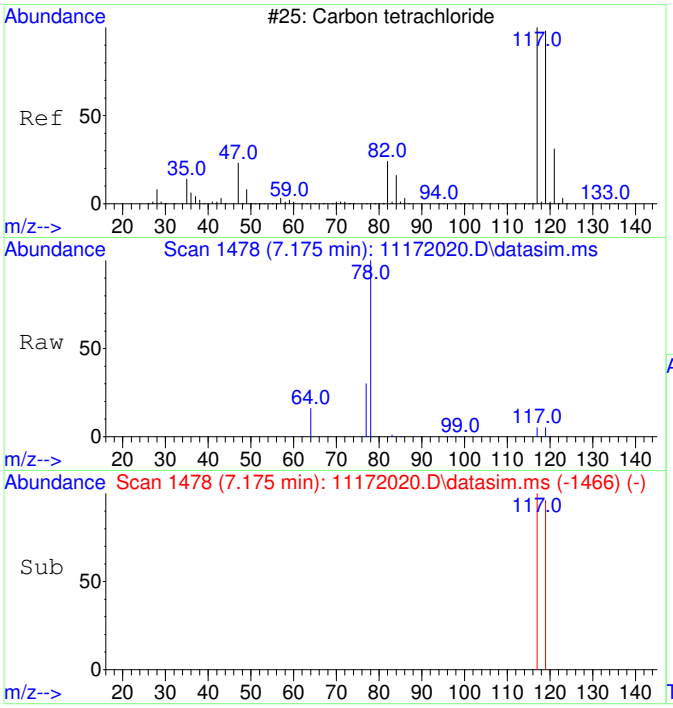


#7
1,1,1-Trichloroethane
Concen: 630.97 ug/L
RT: 6.895 min Scan# 1455
Delta R.T. -0.012 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 97 Resp: 21626

Ion	Ratio	Lower	Upper
97	100		
99	64.3	34.6	94.6
117	12.5	0.0	43.2

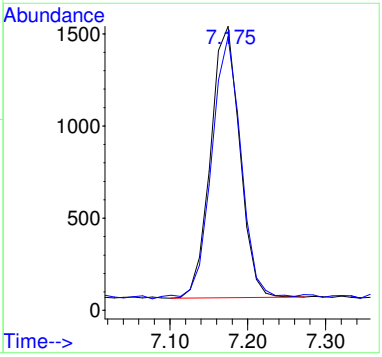


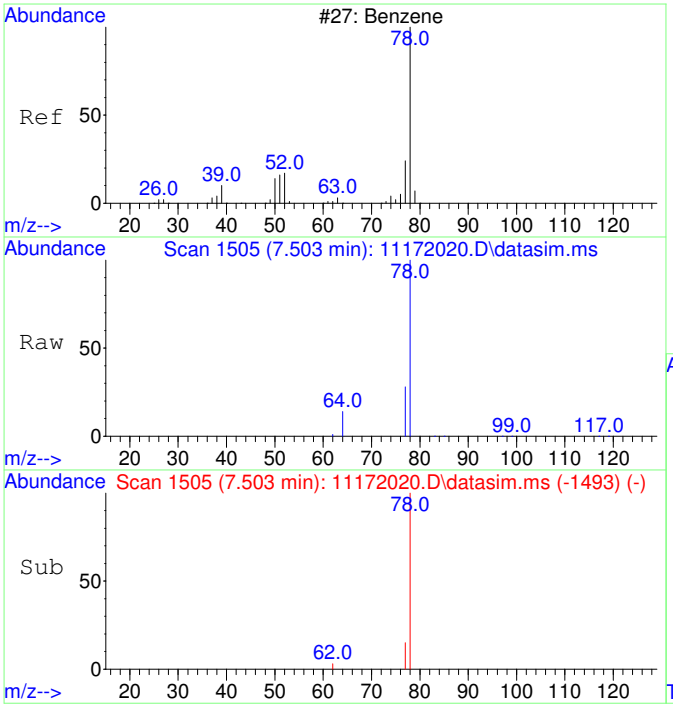


#8
Carbon tetrachloride
Concen: 119.01 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion:117 Resp: 3839

Ion	Ratio	Lower	Upper
117	100		
119	96.3	66.4	126.4

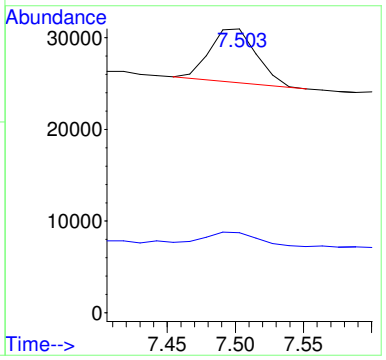


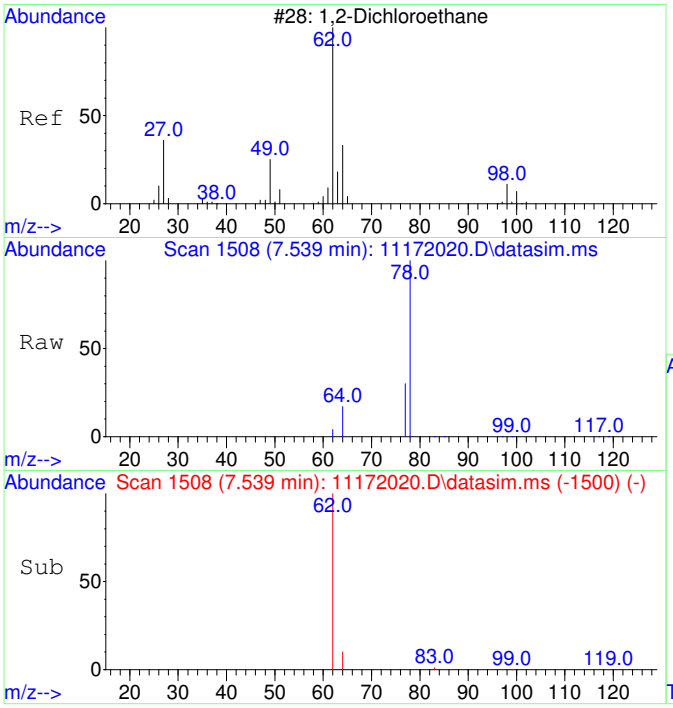


#9
Benzene
Concen: 156.32 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 78 Resp: 13509

Ion	Ratio	Lower	Upper
78	100		
77	45.2	0.0	53.2

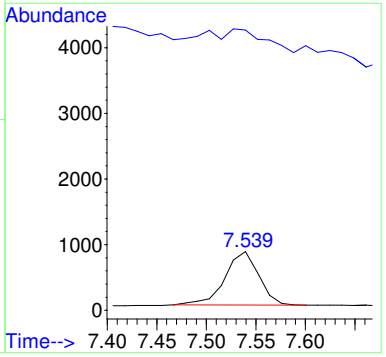


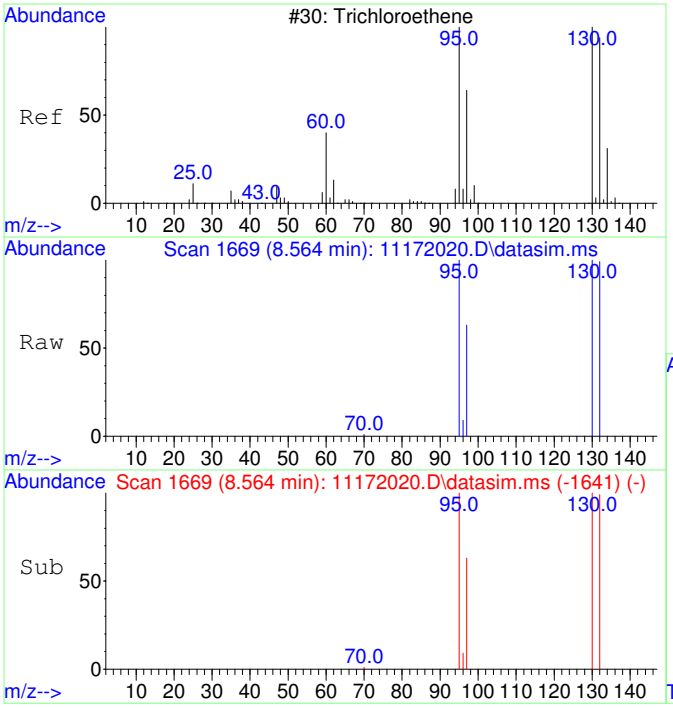


#10
1,2-Dichloroethane
Concen: 62.69 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 62 Resp: 1934

Ion	Ratio	Lower	Upper
62	100		
64	45.4	2.3	62.3

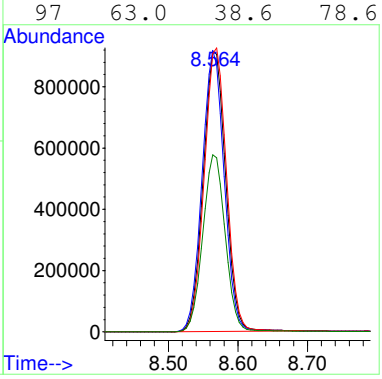


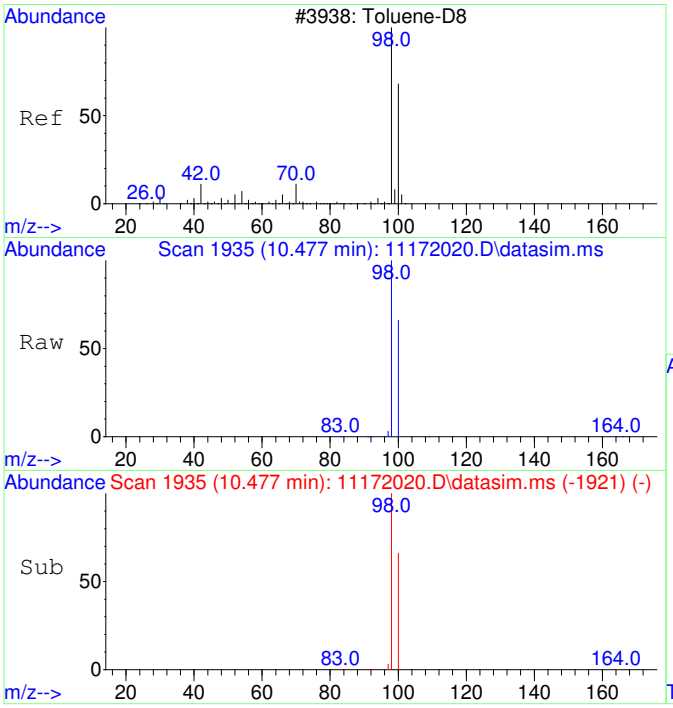


#11
Trichloroethene
Concen: 78591.26 ug/L
RT: 8.564 min Scan# 1669
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion:130 Resp: 2044913

Ion	Ratio	Lower	Upper
130	100		
95	98.8	60.7	120.7
132	100.7	76.0	116.0
97	63.0	38.6	78.6

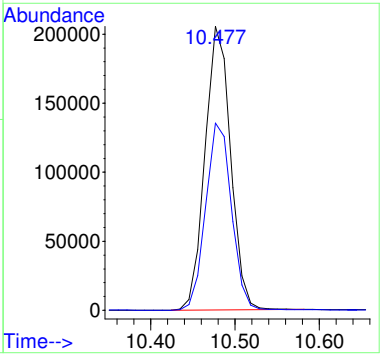


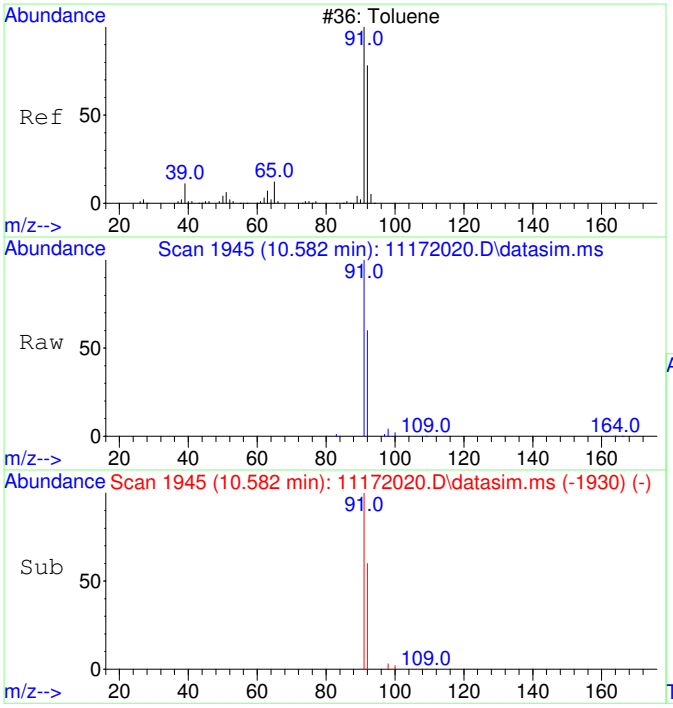


#12
Toluene-d8
Concen: 4359.00 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 98 Resp: 434024

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

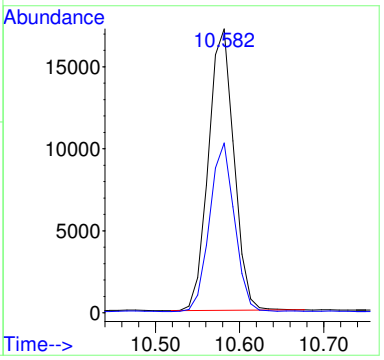


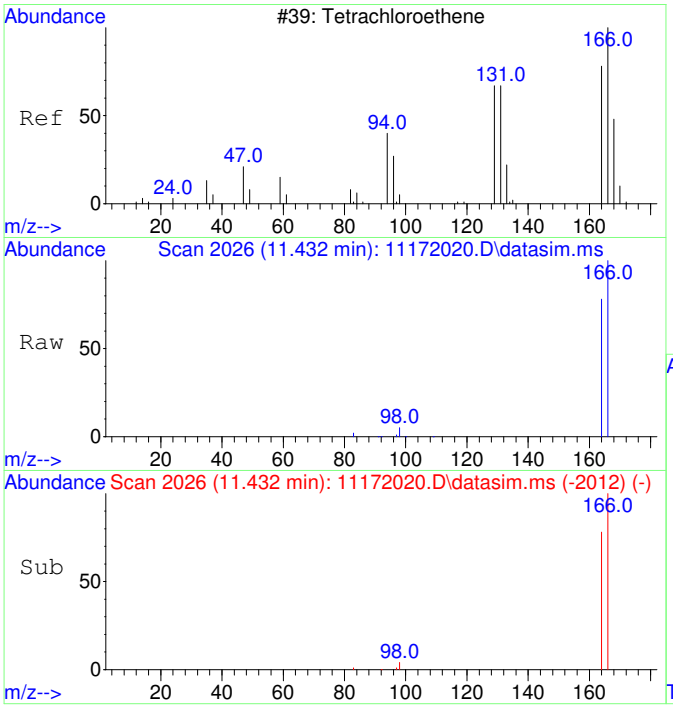


#13
Toluene
Concen: 284.78 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 91 Resp: 36151

Ion	Ratio	Lower	Upper
91	100		
92	58.4	29.9	89.9

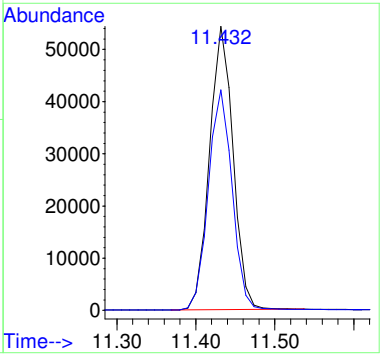


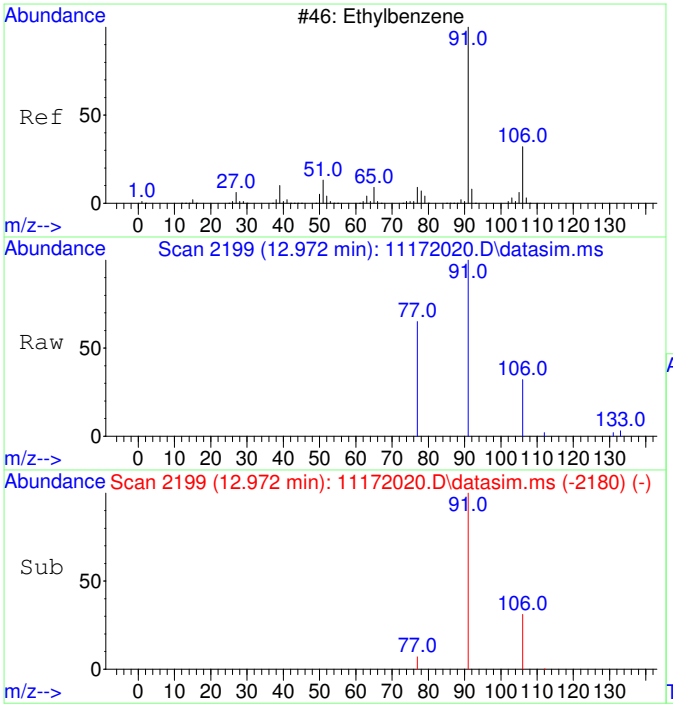


#15
Tetrachloroethene
Concen: 3059.90 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion:166 Resp: 112411

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

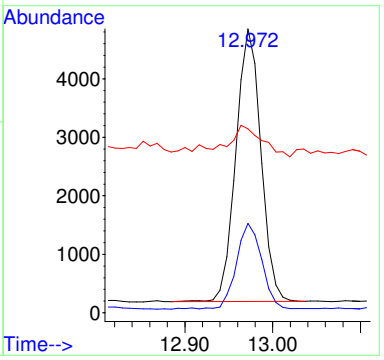


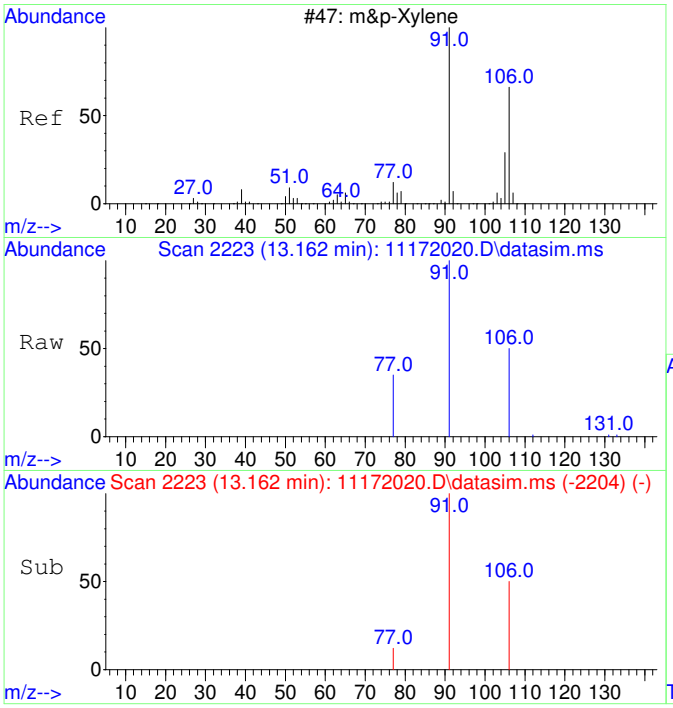


#18
Ethylbenzene
Concen: 59.62 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 91 Resp: 9212

Ion	Ratio	Lower	Upper
91	100		
106	31.3	3.0	63.0
77	14.2	0.0	38.2

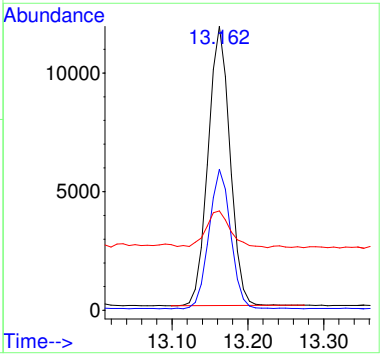


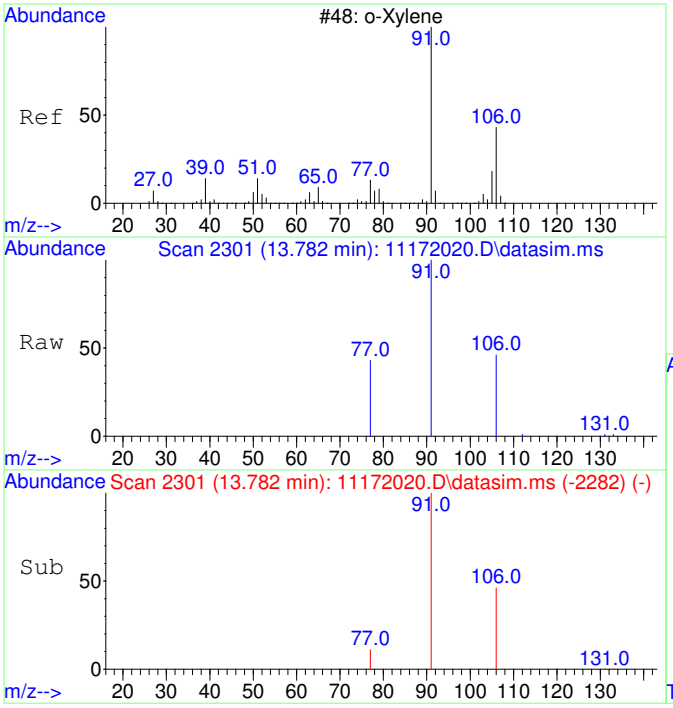


#19
m&p-Xylene
Concen: 194.87 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 91 Resp: 23533

Ion	Ratio	Lower	Upper
91	100		
106	49.3	22.2	82.2
77	14.7	0.0	42.4

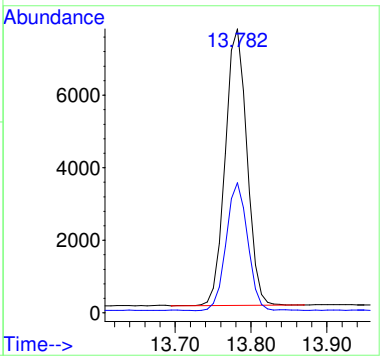


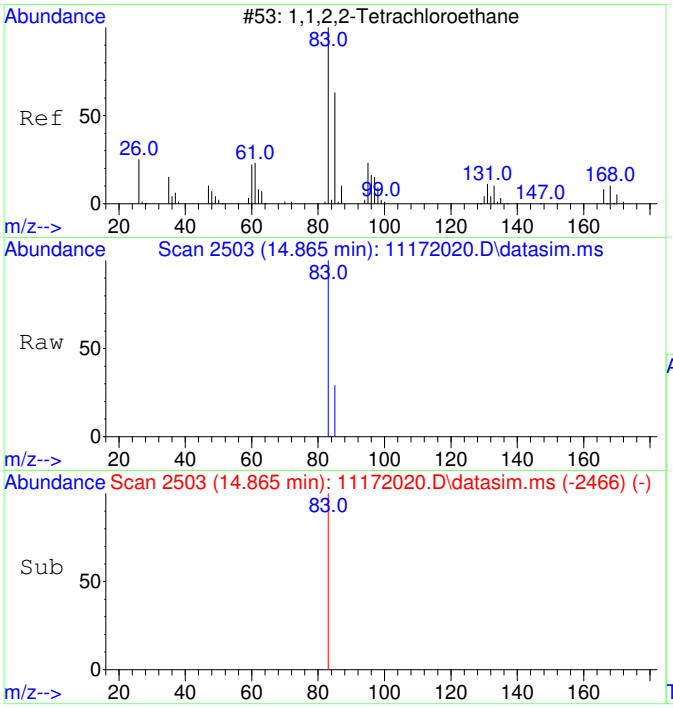


#20
o-Xylene
Concen: 117.45 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 91 Resp: 15154

Ion	Ratio	Lower	Upper
91	100		
106	45.9	19.2	79.2

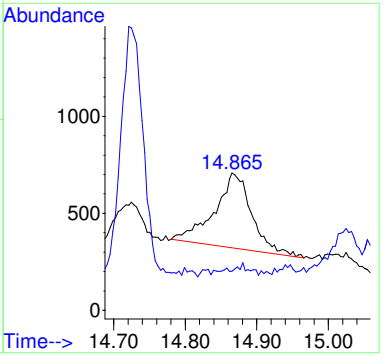


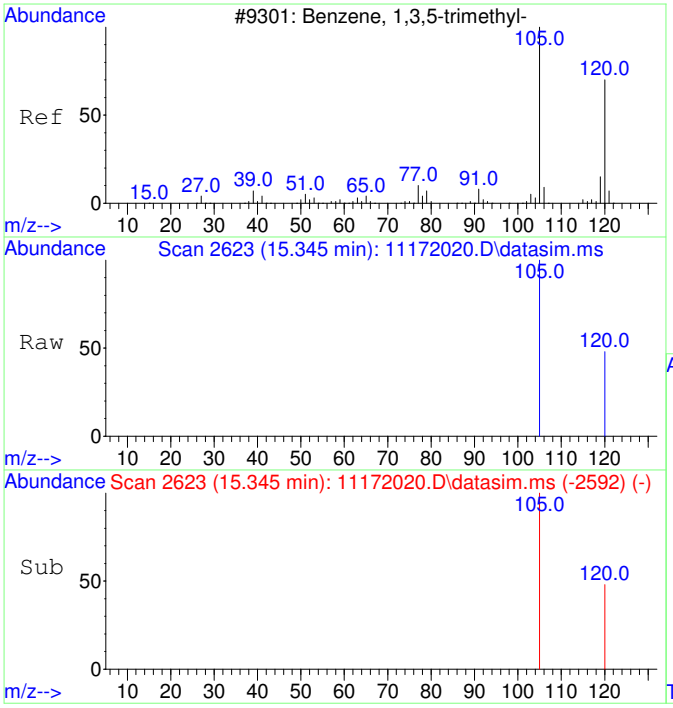


#21
1,1,2,2-Tetrachloroethane
Concen: 24.22 ug/L
RT: 14.865 min Scan# 2503
Delta R.T. -0.011 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 83 Resp: 1385

Ion	Ratio	Lower	Upper
83	100		
85	0.4	34.8	94.8#

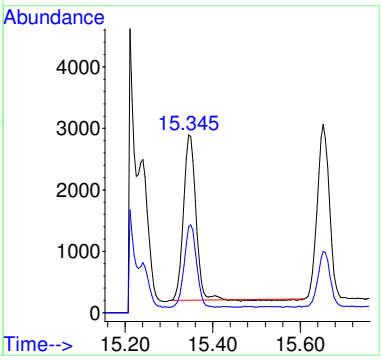


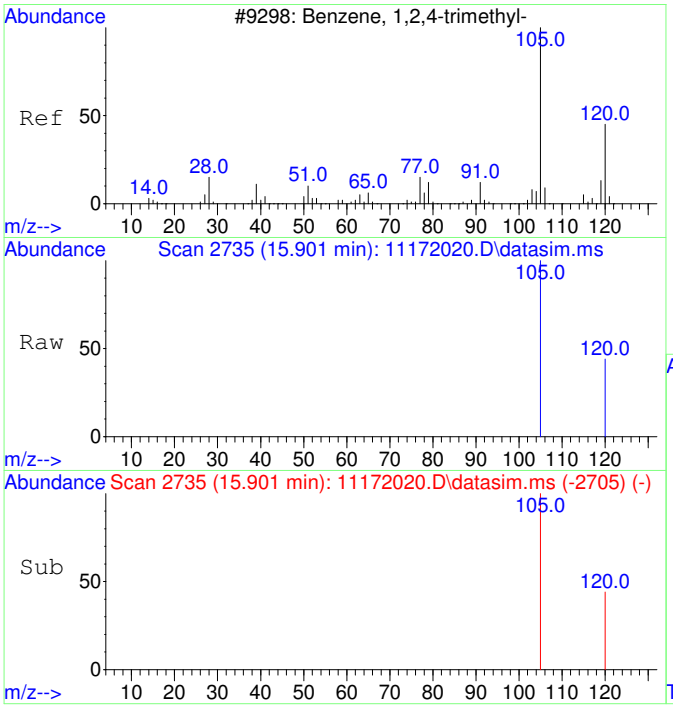


#22
1,3,5-Trimethylbenzene
Concen: 37.53 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion:105 Resp: 5154

Ion	Ratio	Lower	Upper
105	100		
120	48.8	21.1	81.1

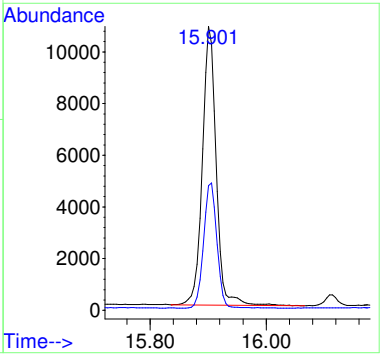


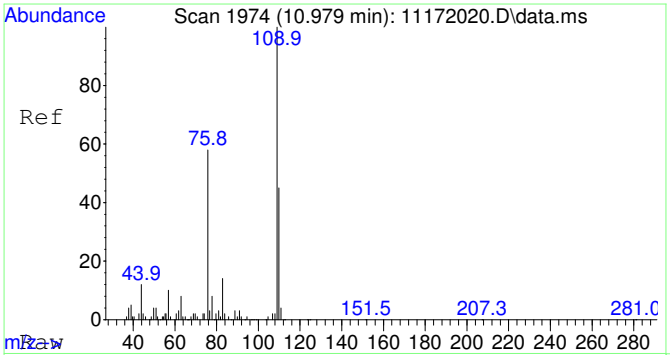


#23
1,2,4-Trimethylbenzene
Concen: 125.02 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion:105 Resp: 17833

Ion	Ratio	Lower	Upper
105	100		
120	42.9	17.2	77.2

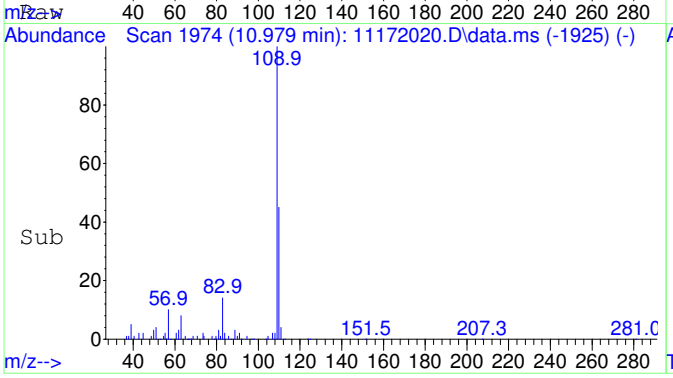


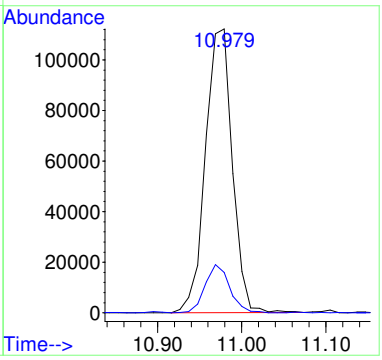


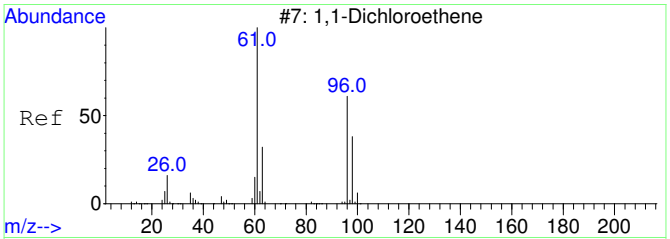
#25
2-Fluorotoluene SCAN
Concen: 5026.20 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

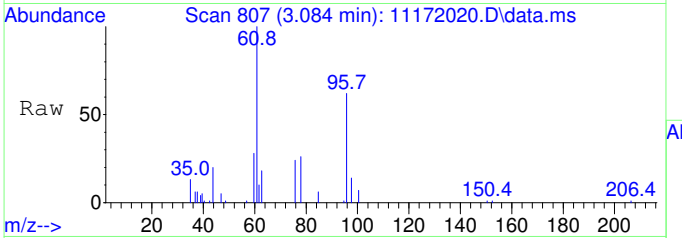
Tgt Ion:109 Resp: 249209

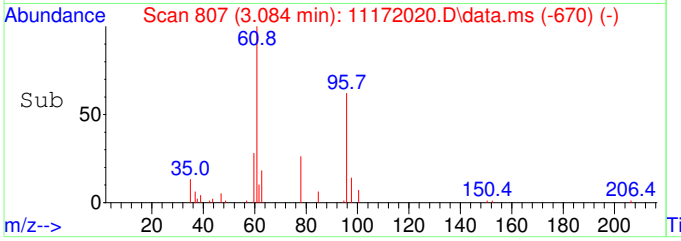
Ion	Ratio	Lower	Upper
109	100		
83	15.5	0.0	43.8







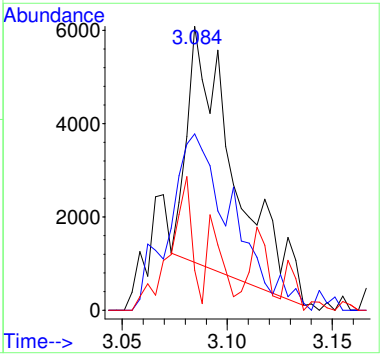


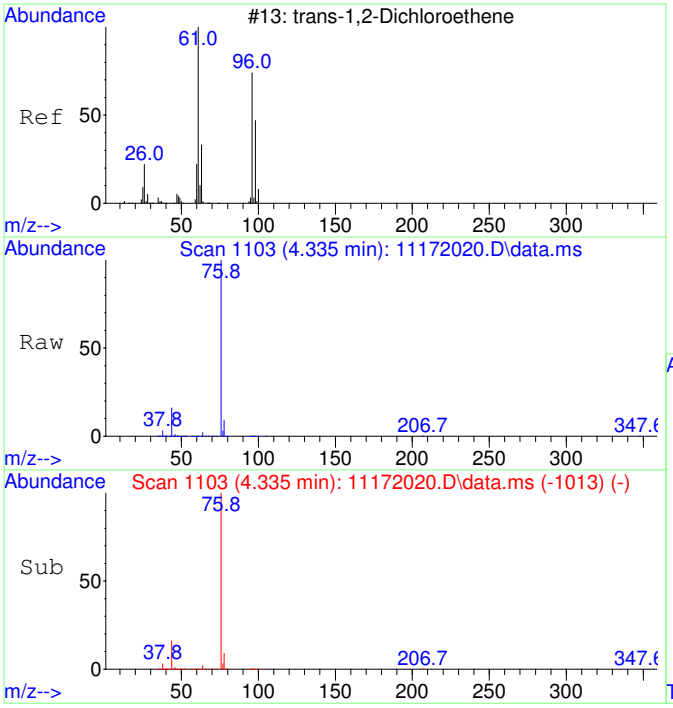


#26
1,1-Dichloroethene SCAN
Concen: 752.82 ug/L
RT: 3.084 min Scan# 807
Delta R.T. 0.007 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 61 Resp: 7927

Ion	Ratio	Lower	Upper
61	100		
96	100.6	33.1	93.1#
98	24.5	11.2	71.2

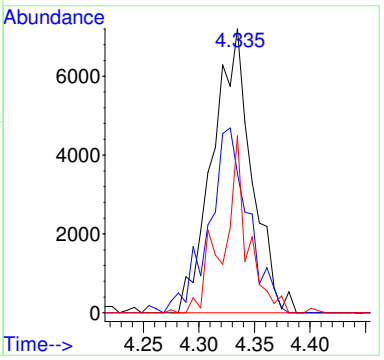


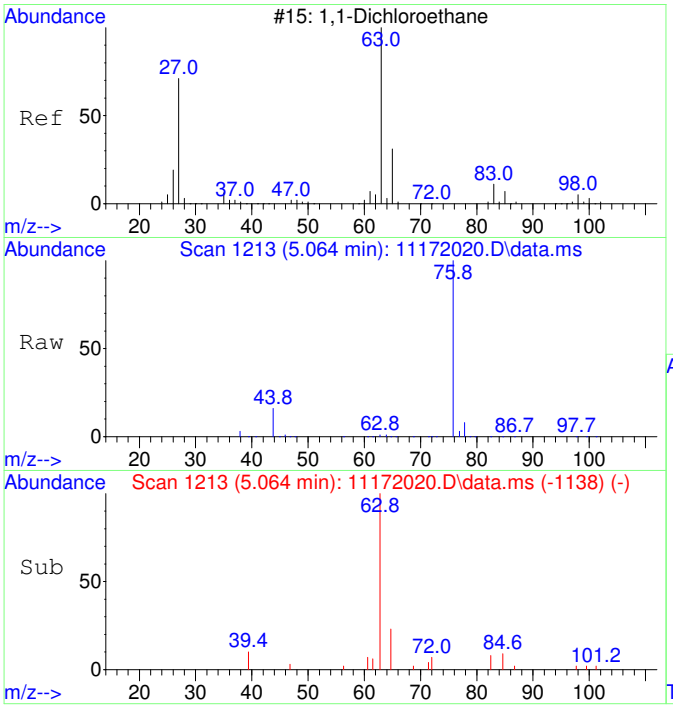


#27
trans-1,2-Dichloroethene SCAN
Concen: 1363.26 ug/L
RT: 4.335 min Scan# 1103
Delta R.T. -0.013 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 61 Resp: 17763

Ion	Ratio	Lower	Upper
61	100		
96	65.5	49.0	109.0
98	38.6	20.5	80.5

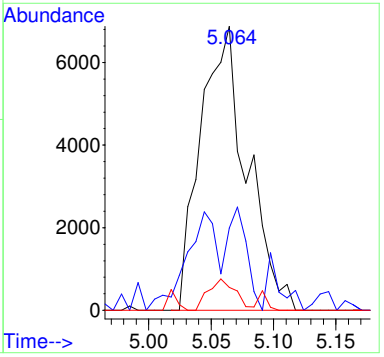


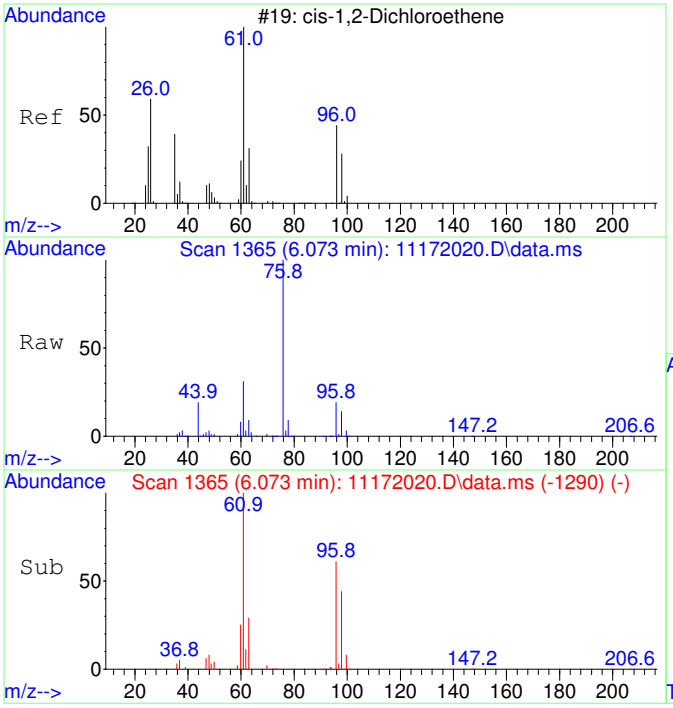


#28
1,1-Dichloroethane SCAN
Concen: 1176.83 ug/L
RT: 5.064 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 63 Resp: 17746

Ion	Ratio	Lower	Upper
63	100		
65	9.9	1.3	61.3
83	5.9	0.0	45.9

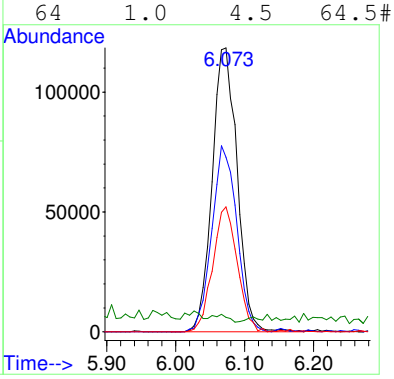


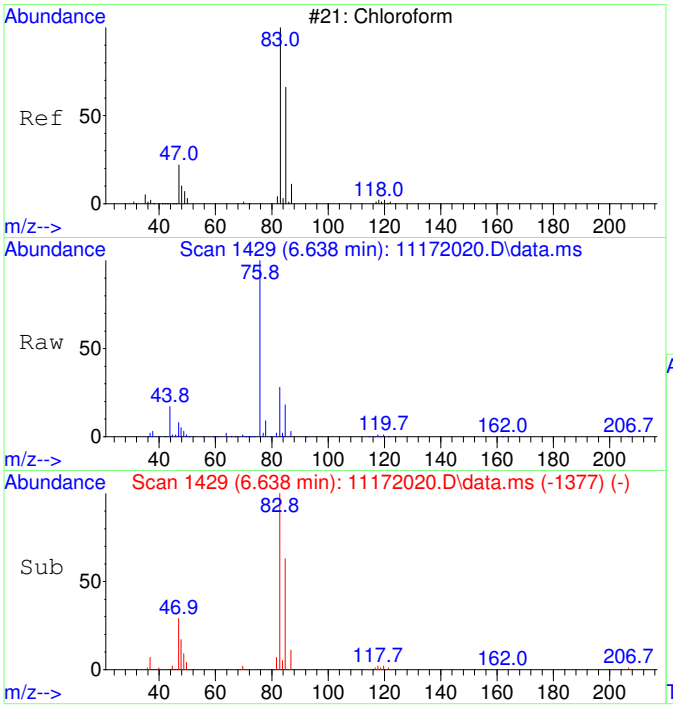


#29
cis-1,2-Dichloroethene SCAN
Concen: 18488.00 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 61 Resp: 298697

Ion	Ratio	Lower	Upper
61	100		
96	65.4	39.9	99.9
98	43.1	13.5	73.5
64	1.0	4.5	64.5#

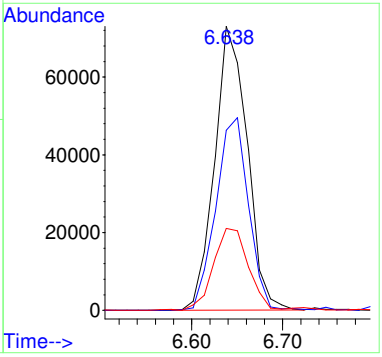


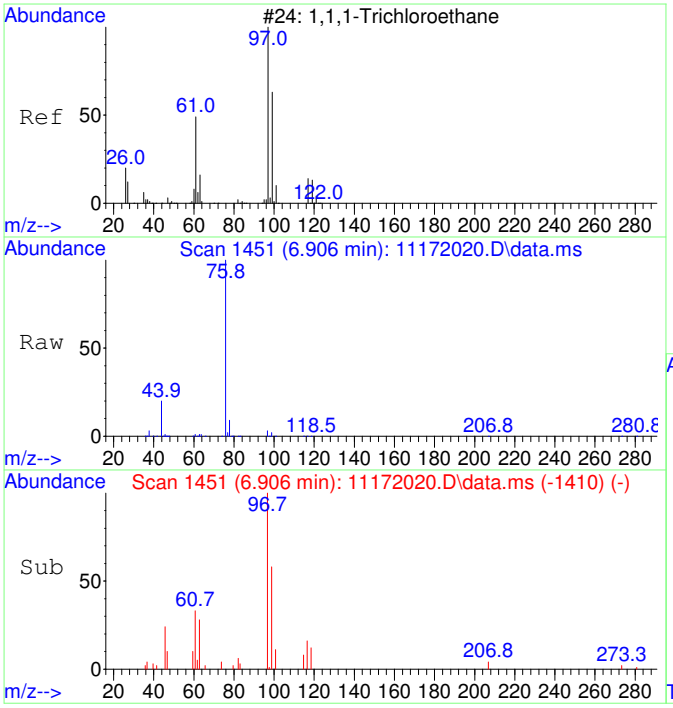


#30
Chloroform SCAN
Concen: 10410.35 ug/L
RT: 6.638 min Scan# 1429
Delta R.T. -0.012 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 83 Resp: 182428

Ion	Ratio	Lower	Upper
83	100		
85	67.7	34.6	94.6
47	30.2	0.0	53.4

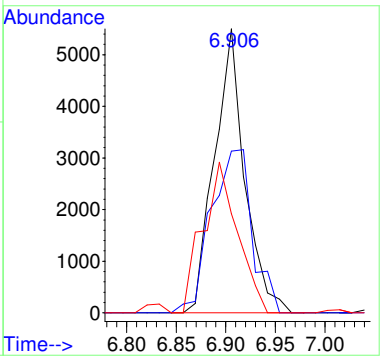


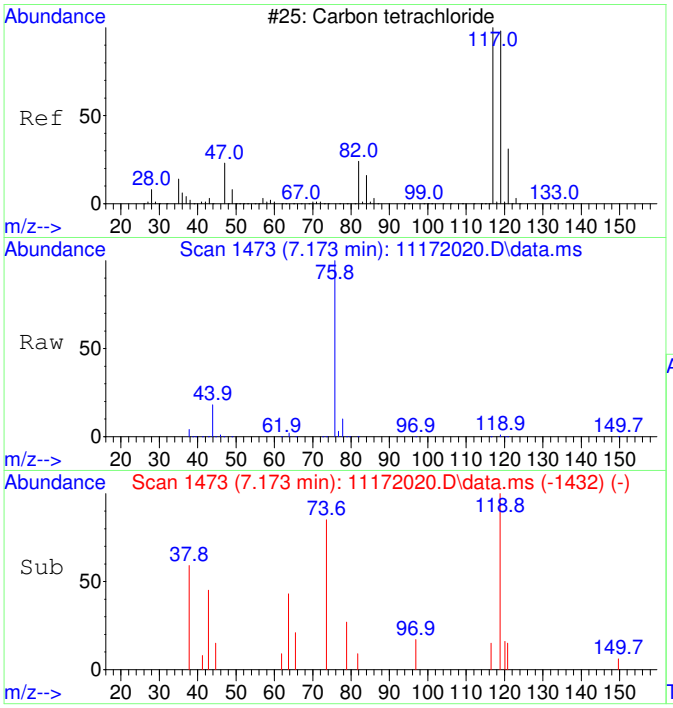


#31
1,1,1-Trichloroethane SCAN
Concen: 734.48 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 97 Resp: 11729

Ion	Ratio	Lower	Upper
97	100		
99	77.7	43.6	103.6
61	0.0	18.0	78.0#

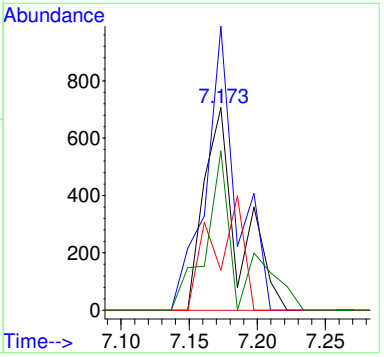


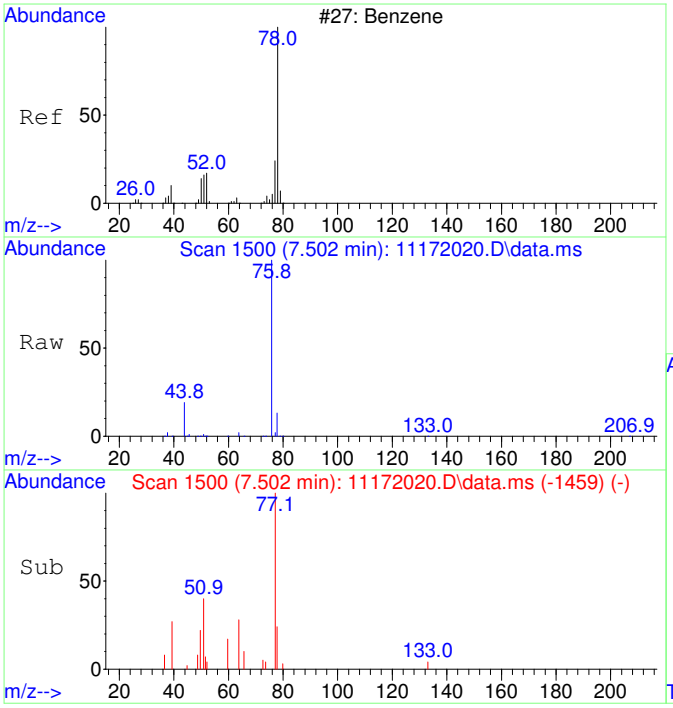


#32
Carbon tetrachloride SCAN
Concen: 74.56 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion:117 Resp: 1242

Ion	Ratio	Lower	Upper
117	100		
119	127.1	75.5	135.5
121	49.6	0.0	58.8
82	74.6	0.0	59.2#

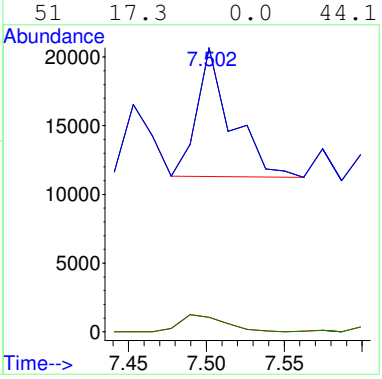


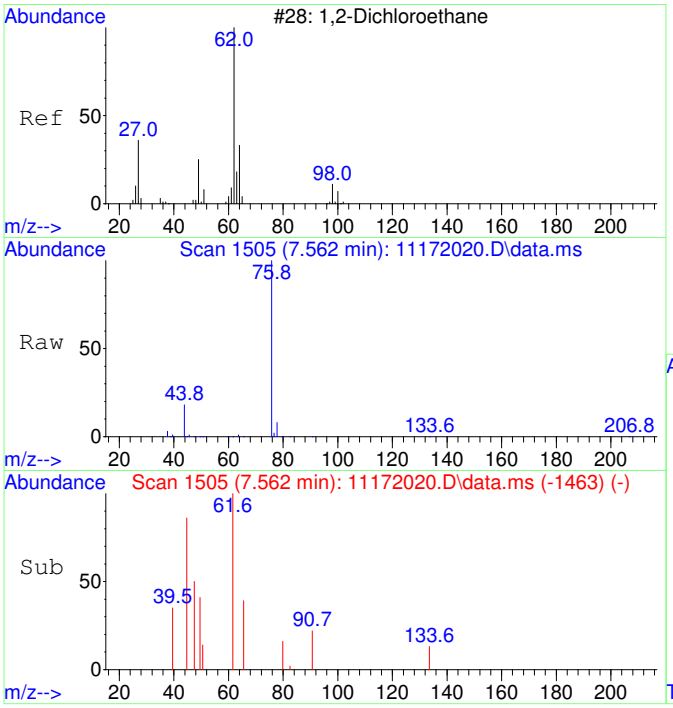


#33
Benzene SCAN
Concen: 328.44 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 78 Resp: 14441

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	17.3	0.0	47.9
51	17.3	0.0	44.1

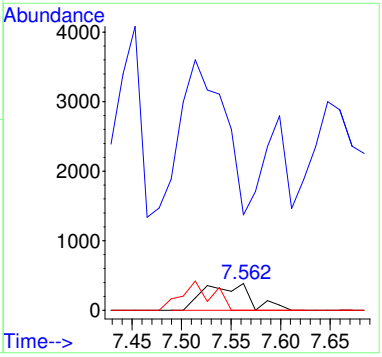


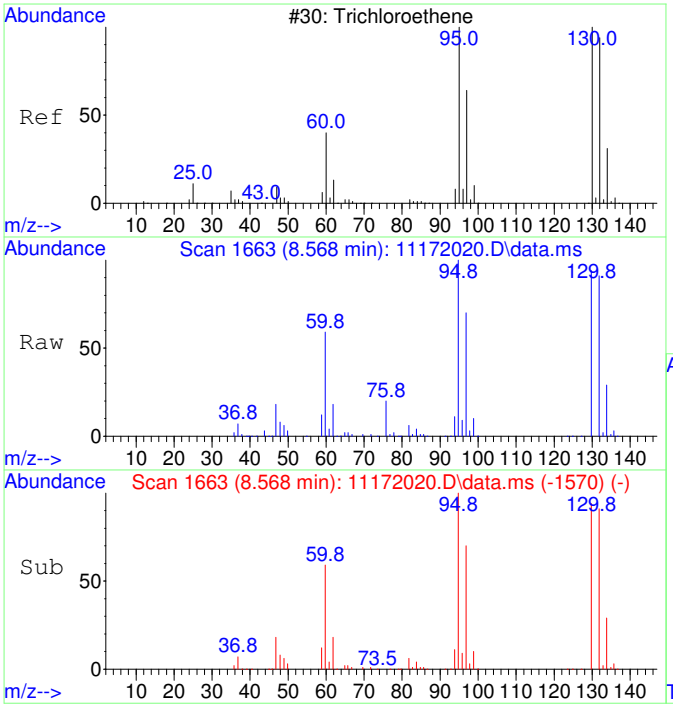


#34
1,2-Dichloroethane SCAN
Concen: 77.11 ug/L
RT: 7.562 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 62 Resp: 1252

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	0.0	3.9	63.9#

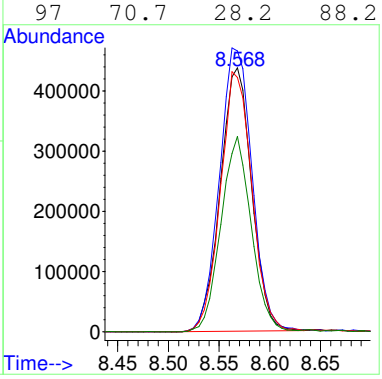


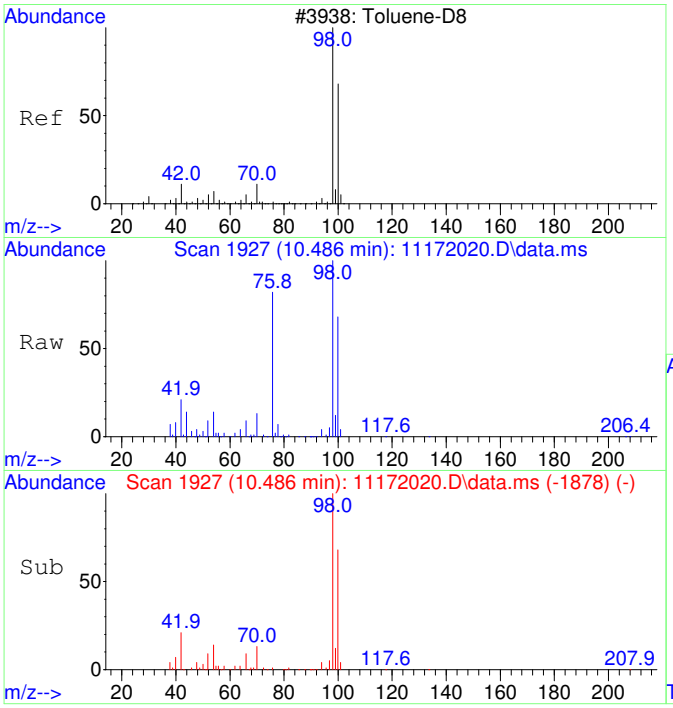


#35
Trichloroethene SCAN
Concen: 78313.83 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion:130 Resp: 946258

Ion	Ratio	Lower	Upper
130	100		
95	111.5	60.5	120.5
132	98.6	59.6	119.6
97	70.7	28.2	88.2

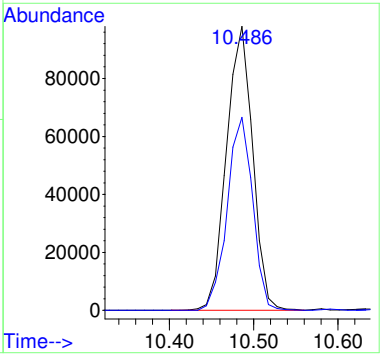


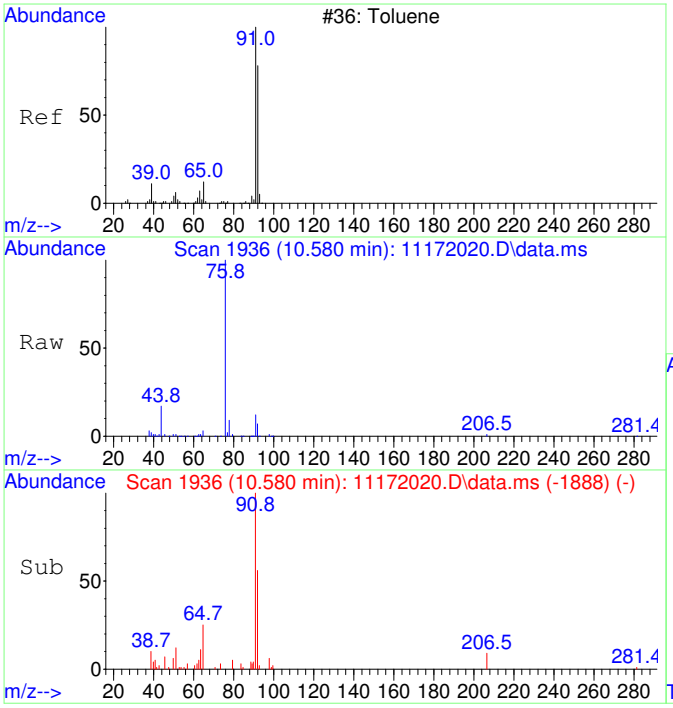


#36
Toluene-d8 SCAN
Concen: 4373.57 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 98 Resp: 212073

Ion	Ratio	Lower	Upper
98	100		
100	66.0	40.0	100.0

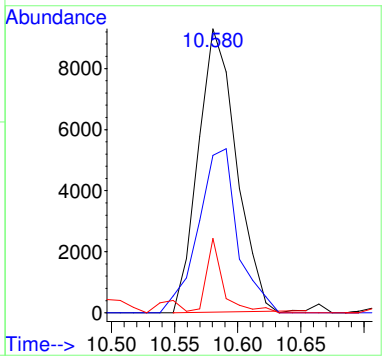


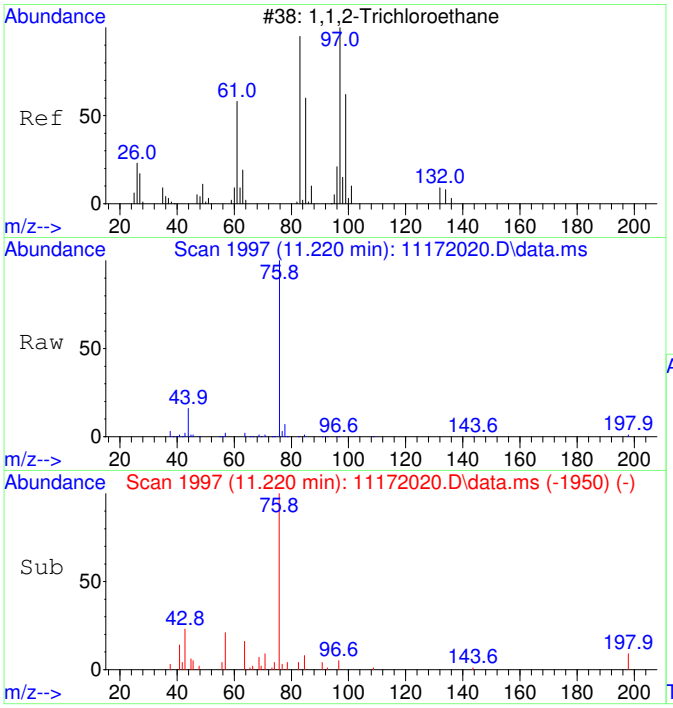


#37
Toluene SCAN
Concen: 312.99 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 91 Resp: 19436

Ion	Ratio	Lower	Upper
91	100		
92	60.2	28.3	88.3
65	14.1	0.0	41.0

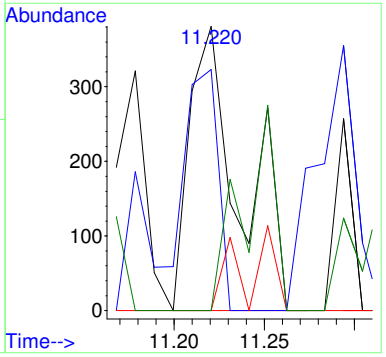


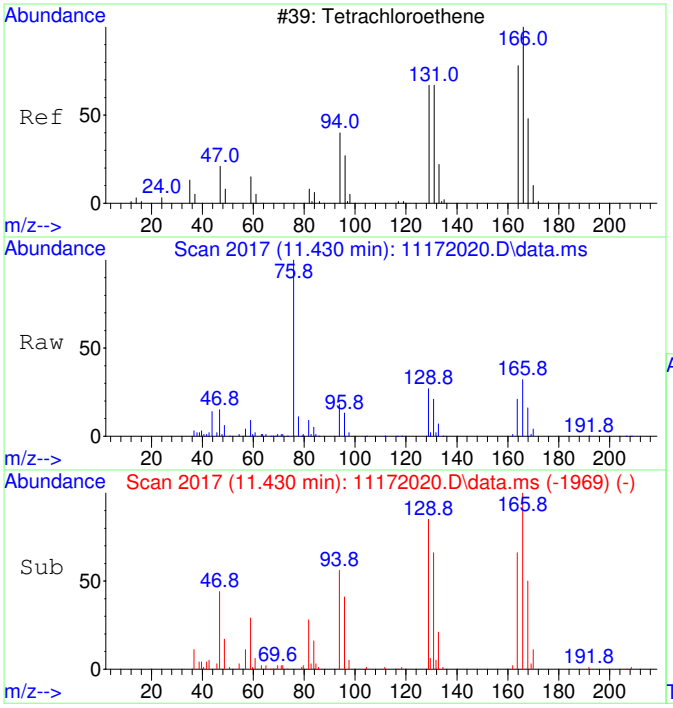


#38
1,1,2-Trichloroethane SCAN
Concen: 53.38 ug/L
RT: 11.220 min Scan# 1997
Delta R.T. -0.011 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 97 Resp: 744

Ion	Ratio	Lower	Upper
97	100		
83	78.6	57.7	117.7
61	8.3	32.1	92.1#
99	0.0	36.7	96.7#

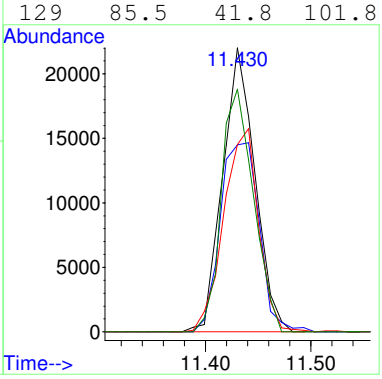


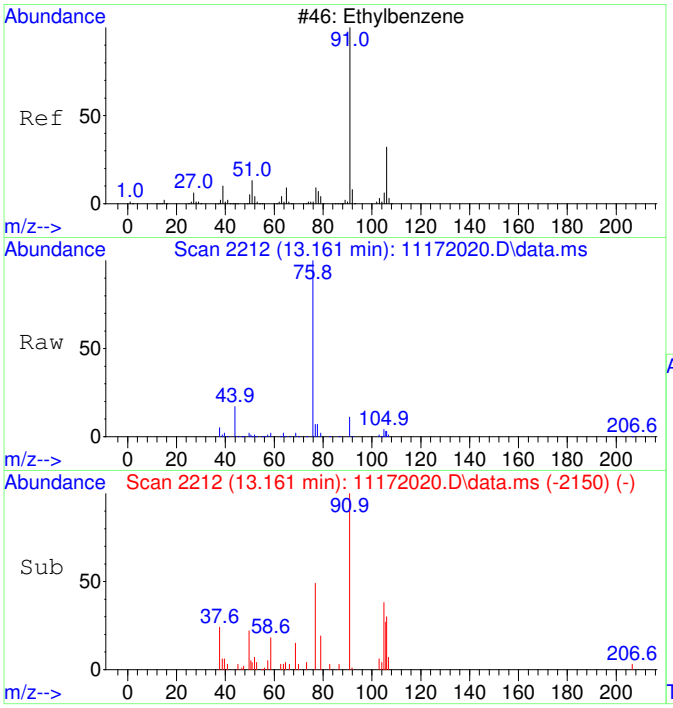


#39
Tetrachloroethene SCAN
Concen: 3144.67 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion:166 Resp: 46915

Ion	Ratio	Lower	Upper
166	100		
164	80.6	50.9	110.9
131	77.3	38.7	98.7
129	85.5	41.8	101.8

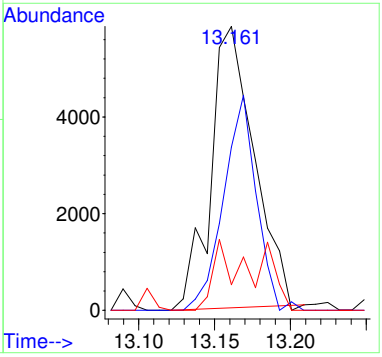


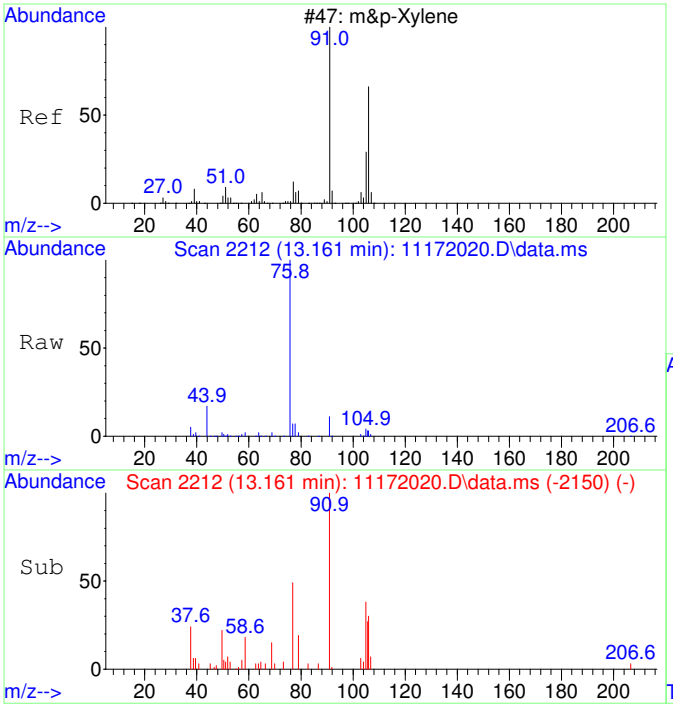


#42
Ethylbenzene SCAN
Concen: 102.66 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 91 Resp: 11614

Ion	Ratio	Lower	Upper
91	100		
106	57.7	23.1	83.1
51	23.8	0.0	40.1

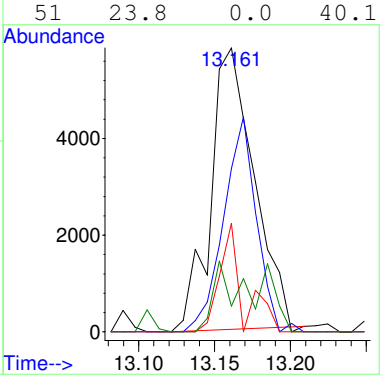


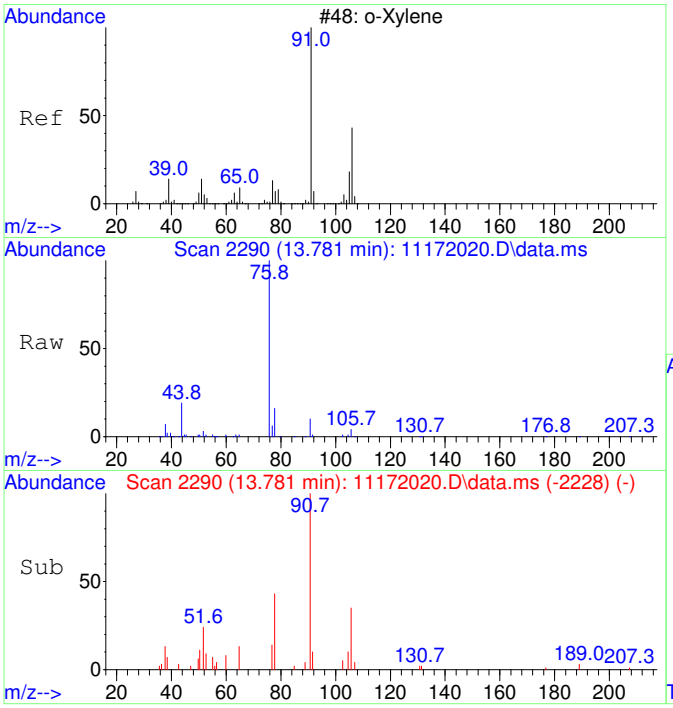


#43
m&p-Xylene SCAN
Concen: 102.66 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 91 Resp: 11614

Ion	Ratio	Lower	Upper
91	100		
106	57.7	23.1	83.1
105	20.6	0.0	54.7
51	23.8	0.0	40.1

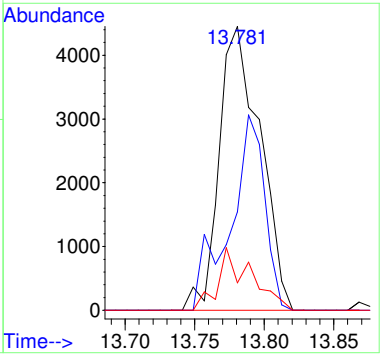


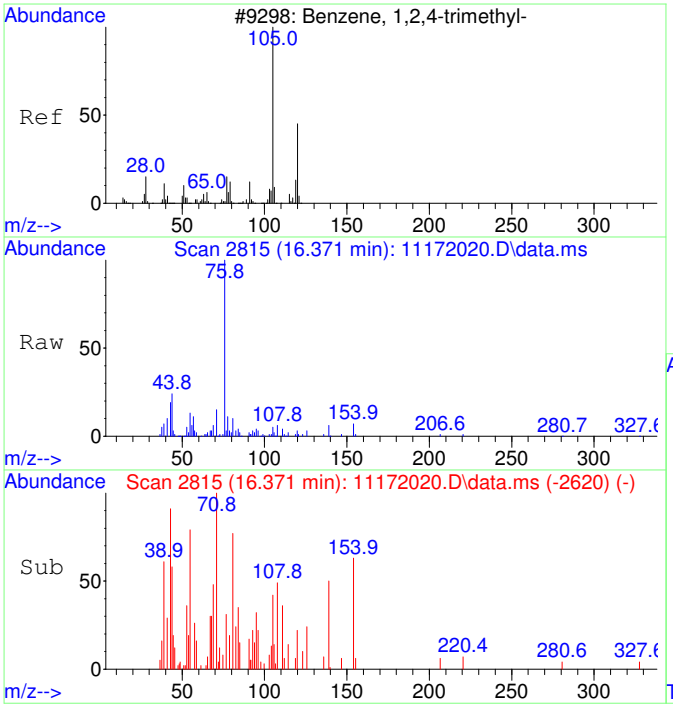


#44
o-Xylene SCAN
Concen: 150.37 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion: 91 Resp: 9106

Ion	Ratio	Lower	Upper
91	100		
106	58.5	18.0	78.0
105	17.9	0.0	56.6

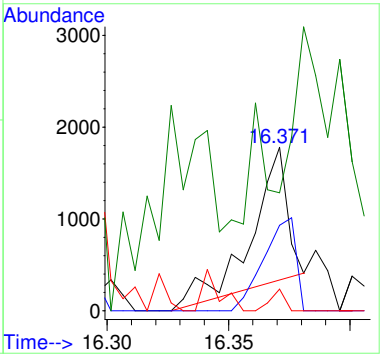




#47
1,2,4-Trimethylbenzene SCAN
Concen: 22.94 ug/L
RT: 16.371 min Scan# 2815
Delta R.T. 0.467 min
Lab File: 11172020.D
Acq: 17 Nov 2020 15:24

Tgt Ion:105 Resp: 1498

Ion	Ratio	Lower	Upper
105	100		
120	62.1	16.9	76.9
119	6.4	0.0	41.9
77	35.4	0.0	42.3



2011017-10

Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172021.D
Acq On : 17 Nov 2020 15:47
InstName : AG5975C
Operator : TD
Sample : 2011017-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

M.I. Performed By:
LLH at 3:55 pm, Nov 23, 2020

for TD

M.I. Approved By:
ZR at 6:25 pm, Nov 23, 2020

Quant Time: Nov 18 06:16:22 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

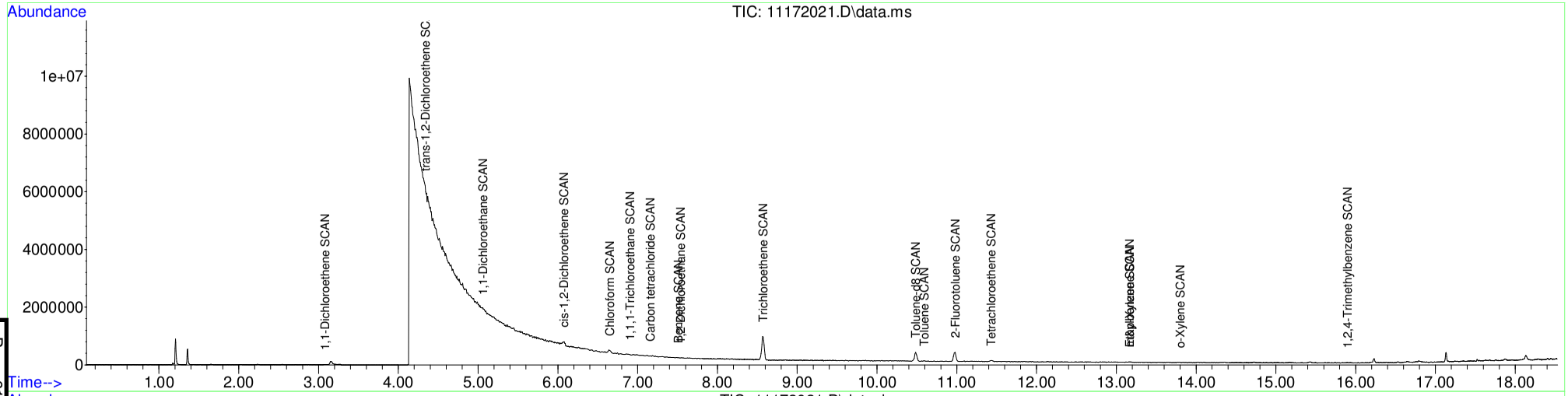
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	544876	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	466315	4371.76 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.44%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	7168m	329.45 ug/L	
3] trans-1,2-Dichloroethene	4.336	61	9566	380.54 ug/L	92
4] 1,1-Dichloroethane	5.059	63	9648	308.32 ug/L	87
5] cis-1,2-Dichloroethene	6.074	61	179279	5427.56 ug/L	99
6] Chloroform	6.639	83	171897	5084.40 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	6466	176.11 ug/L	99
8] Carbon tetrachloride	7.175	117	3115	90.14 ug/L	98
9] Benzene	7.503	78	14514	156.78 ug/L	57
10] 1,2-Dichloroethane	7.540	62	675	20.42 ug/L #	1
11] Trichloroethene	8.569	130	630713	22627.40 ug/L	94
13] Toluene	10.582	91	31892	234.52 ug/L	98
15] Tetrachloroethene	11.432	166	29575	751.50 ug/L	100
18] Ethylbenzene	12.972	91	9135	55.19 ug/L	90
19] m&p-Xylene	13.162	91	20129	155.59 ug/L	93
20] o-Xylene	13.782	91	10104	73.10 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	8727	57.11 ug/L	91
25) 2-Fluorotoluene SCAN	10.979	109	257908	4855.62 ug/L	100
26) 1,1-Dichloroethene SCAN	3.081	61	2294	203.37 ug/L	87
27) trans-1,2-Dichloroethe...	4.335	61	2962	212.20 ug/L #	54
28) 1,1-Dichloroethane SCAN	5.065	63	3825	236.78 ug/L	93
29) cis-1,2-Dichloroethene...	6.073	61	101085	5840.49 ug/L #	83
30) Chloroform SCAN	6.650	83	88264	4701.76 ug/L	93
31) 1,1,1-Trichloroethane ...	6.906	97	3797	221.96 ug/L #	77
32) Carbon tetrachloride SCAN	7.161	117	1454	81.48 ug/L #	17
33) Benzene SCAN	7.514	78	23220	492.97 ug/L	96
34) 1,2-Dichloroethane SCAN	7.538	62	421	24.21 ug/L #	40
35) Trichloroethene SCAN	8.568	130	295713	22845.61 ug/L	87
36) Toluene-d8 SCAN	10.486	98	228965	4407.82 ug/L	97
37) Toluene SCAN	10.591	91	17328	260.48 ug/L #	86
39) Tetrachloroethene SCAN	11.430	166	15349	960.39 ug/L	89
42) Ethylbenzene SCAN	13.169	91	10521	86.81 ug/L #	36
43) m&p-Xylene SCAN	13.169	91	10521	86.81 ug/L #	48
44) o-Xylene SCAN	13.797	91	4947	76.26 ug/L #	71
47) 1,2,4-Trimethylbenzene...	15.899	105	4895	69.97 ug/L #	72

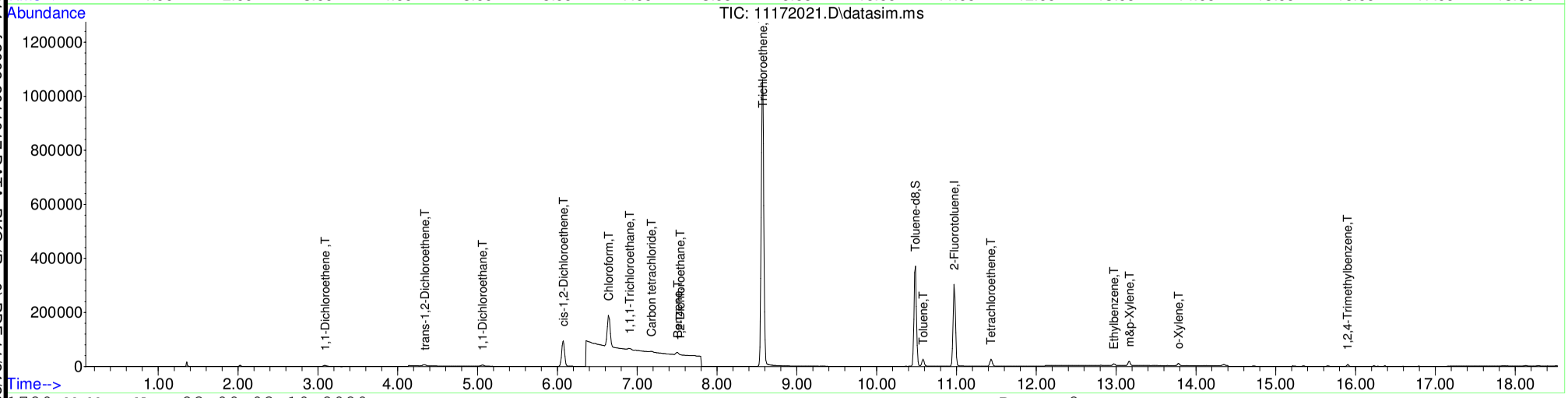
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172021.D
Acq On : 17 Nov 2020 15:47
InstName : AG5975C
Operator : TD
Sample : 2011017-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 18 06:16:22 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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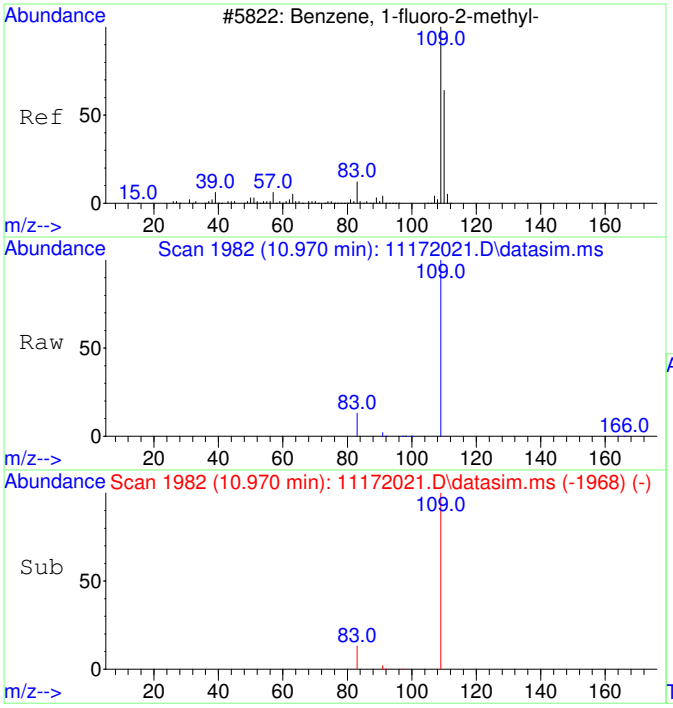
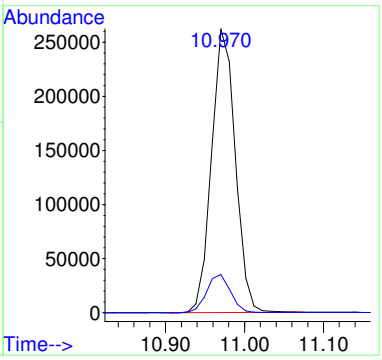
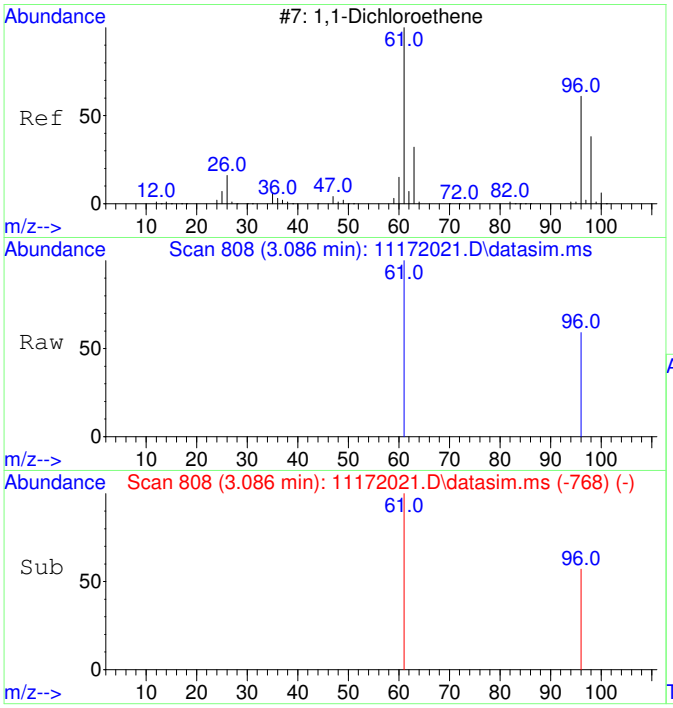


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:109 Resp: 544876

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

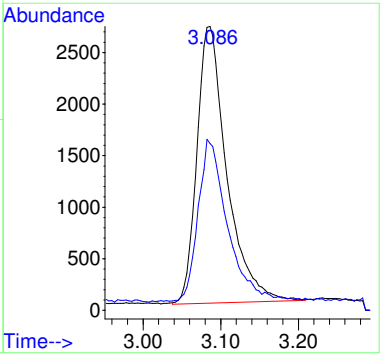


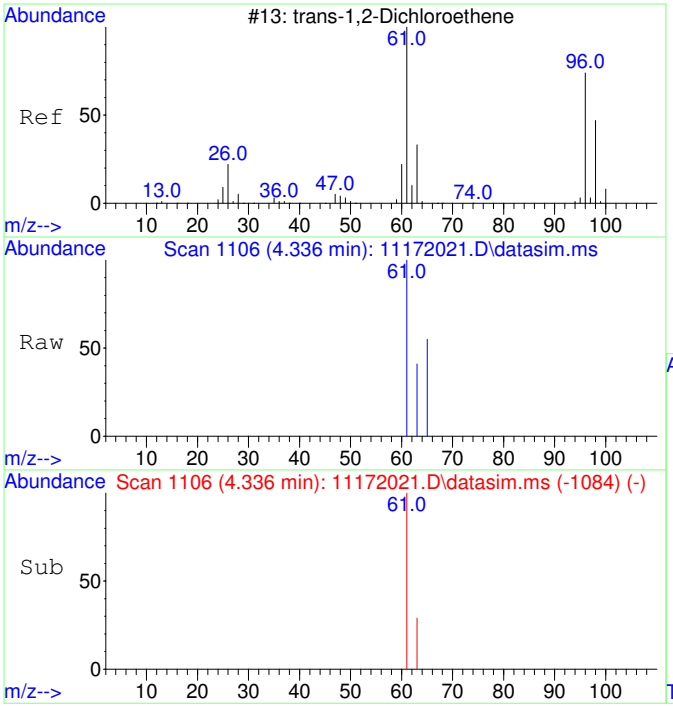


#2
1,1-Dichloroethene
Concen: 329.45 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. 0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 61 Resp: 7168

Ion	Ratio	Lower	Upper
61	100		
96	63.3	37.2	97.2

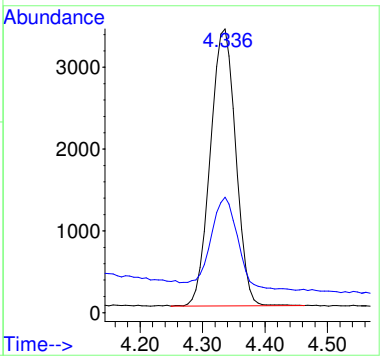


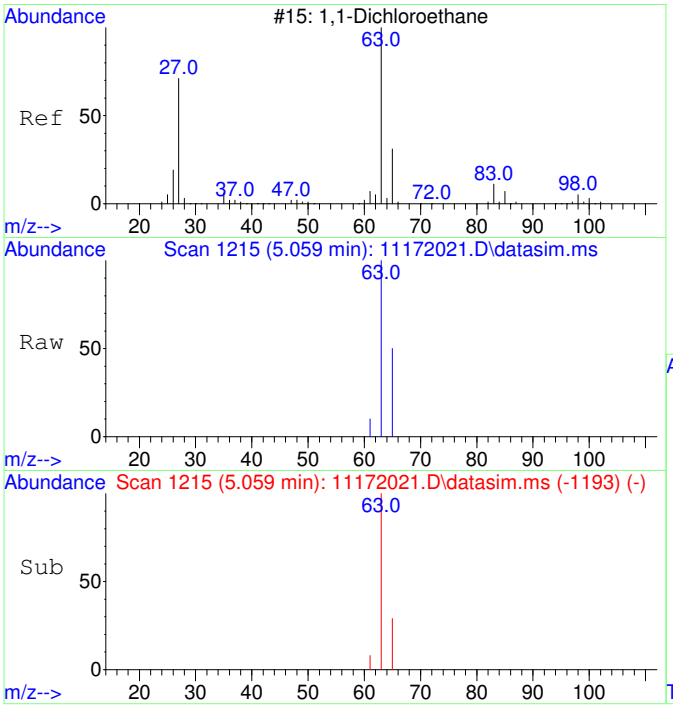


#3
trans-1,2-Dichloroethene
Concen: 380.54 ug/L
RT: 4.336 min Scan# 1106
Delta R.T. -0.007 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 61 Resp: 9566

Ion	Ratio	Lower	Upper
61	100		
63	36.8	2.4	62.4

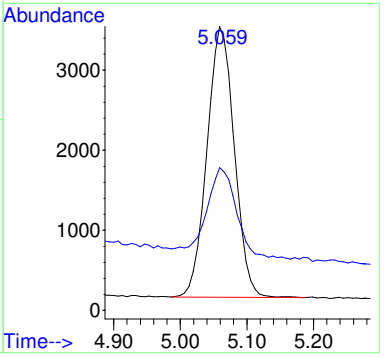


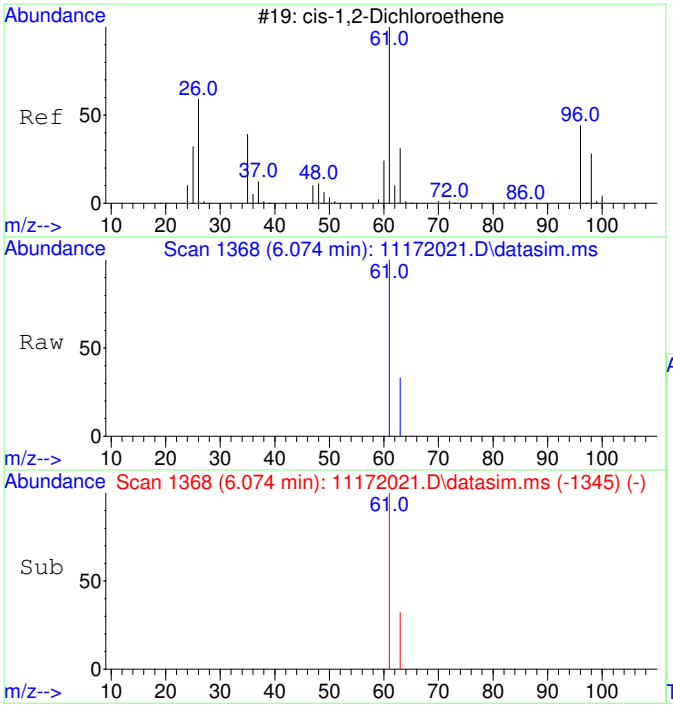


#4
1,1-Dichloroethane
Concen: 308.32 ug/L
RT: 5.059 min Scan# 1215
Delta R.T. -0.007 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 63 Resp: 9648

Ion	Ratio	Lower	Upper
63	100		
65	39.1	1.8	61.8

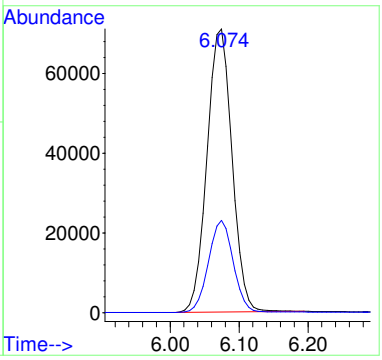


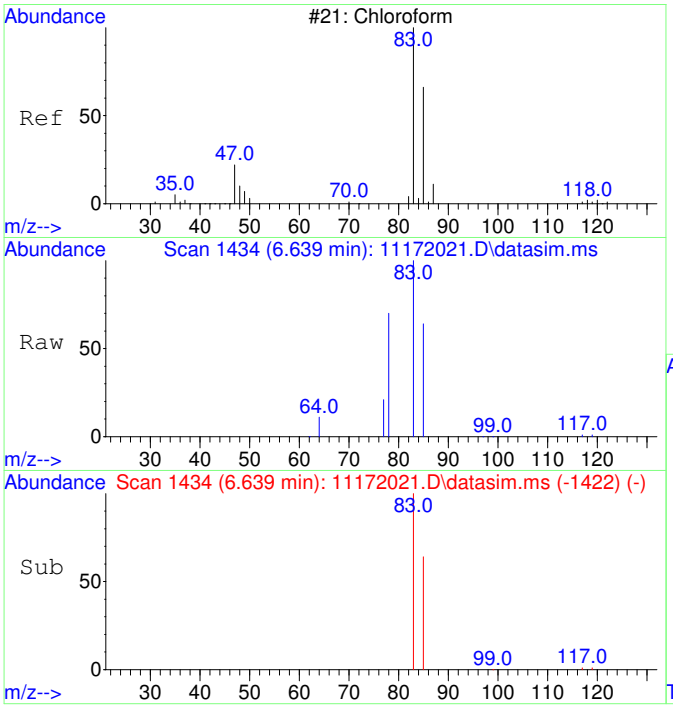


#5
cis-1,2-Dichloroethene
Concen: 5427.56 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 61 Resp: 179279

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

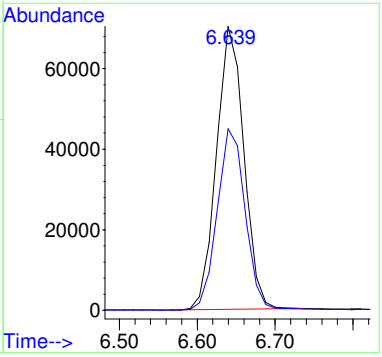


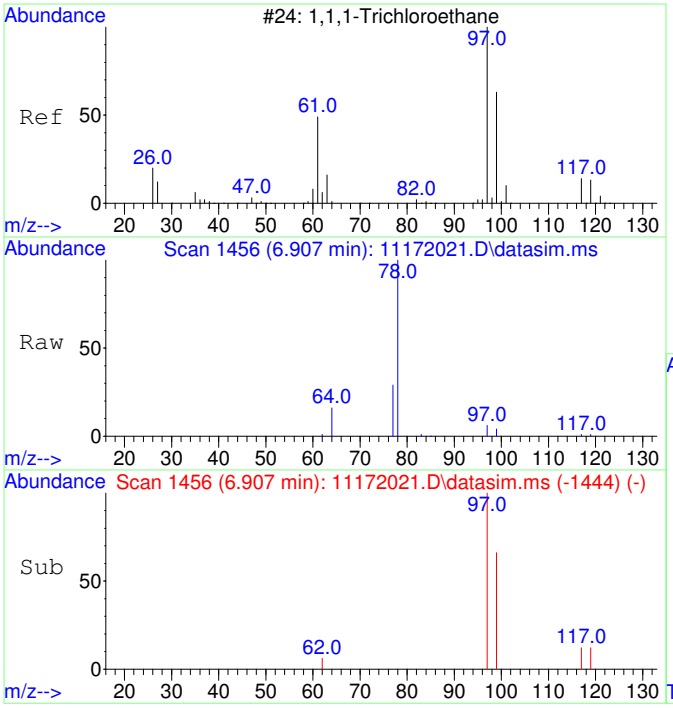


#6
Chloroform
Concen: 5084.40 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 83 Resp: 171897

Ion	Ratio	Lower	Upper
83	100		
85	64.8	35.1	95.1

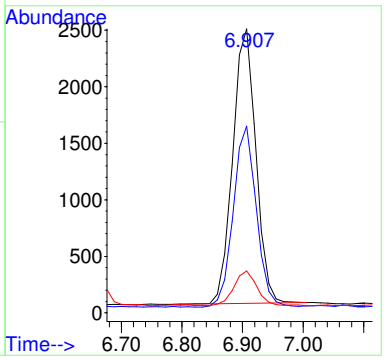


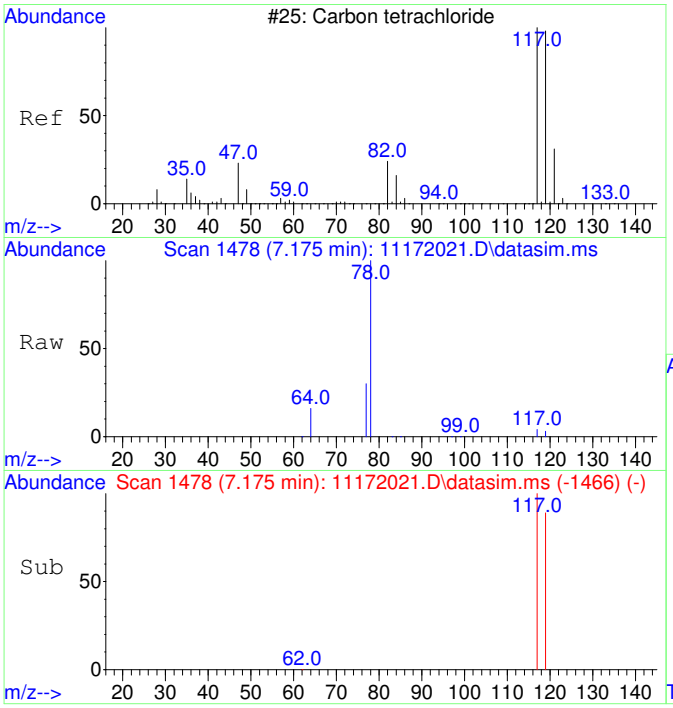


#7
1,1,1-Trichloroethane
Concen: 176.11 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 97 Resp: 6466

Ion	Ratio	Lower	Upper
97	100		
99	65.3	34.6	94.6
117	12.7	0.0	43.2

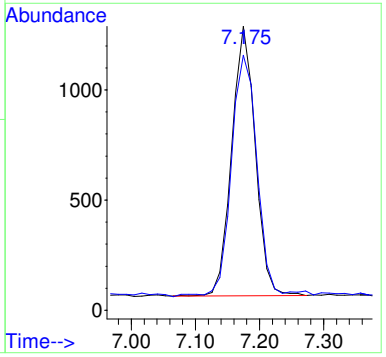


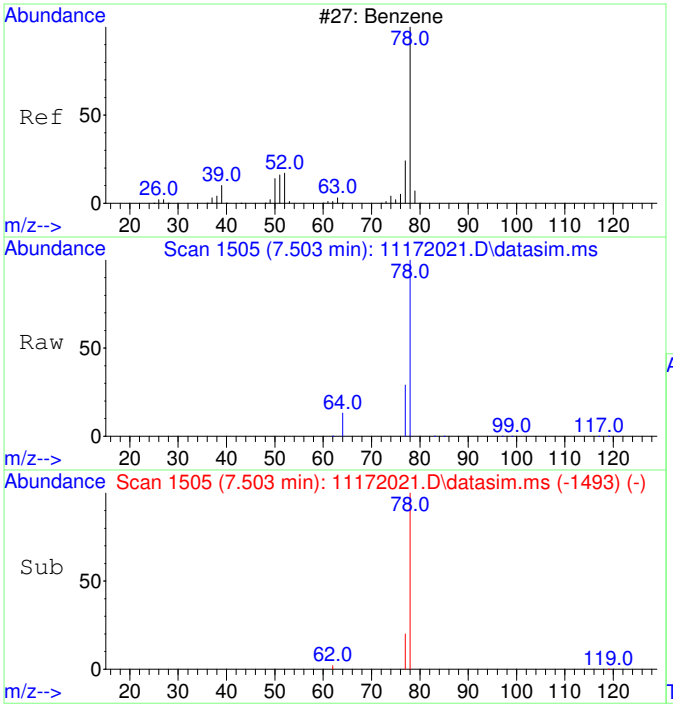


#8
Carbon tetrachloride
Concen: 90.14 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:117 Resp: 3115

Ion	Ratio	Lower	Upper
117	100		
119	98.4	66.4	126.4

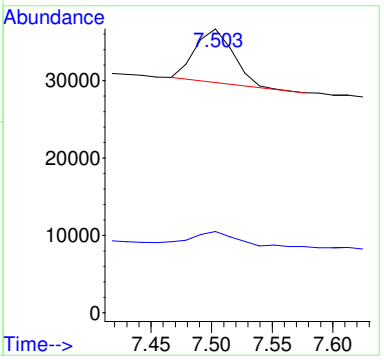


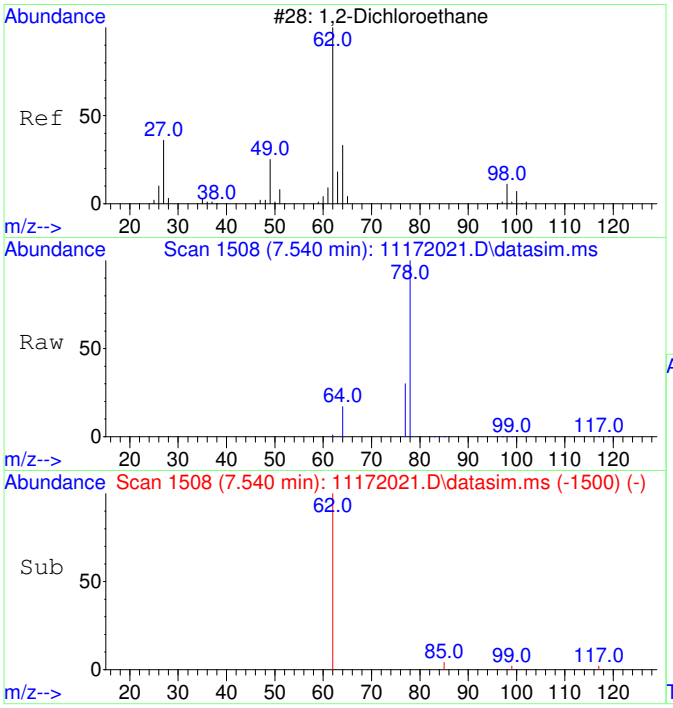


#9
Benzene
Concen: 156.78 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 78 Resp: 14514

Ion	Ratio	Lower	Upper
78	100		
77	44.0	0.0	53.2

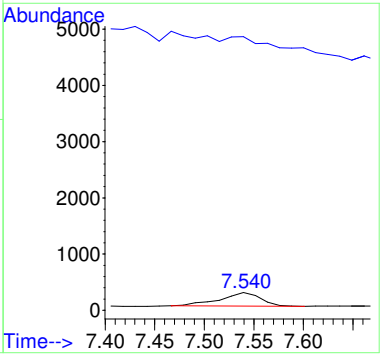


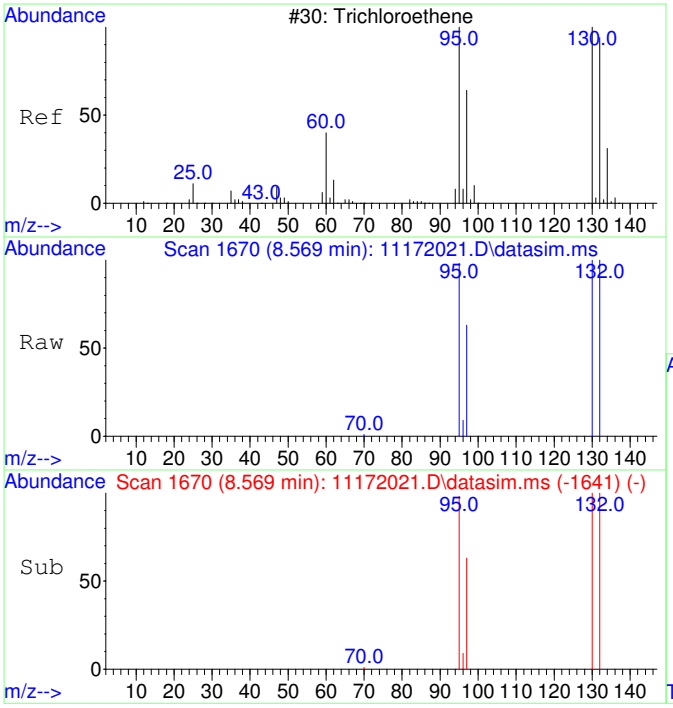


#10
1,2-Dichloroethane
Concen: 20.42 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 62 Resp: 675

Ion	Ratio	Lower	Upper
62	100		
64	184.4	2.3	62.3#

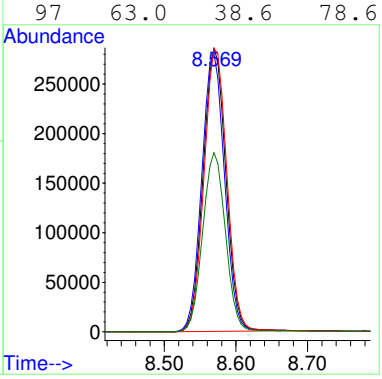


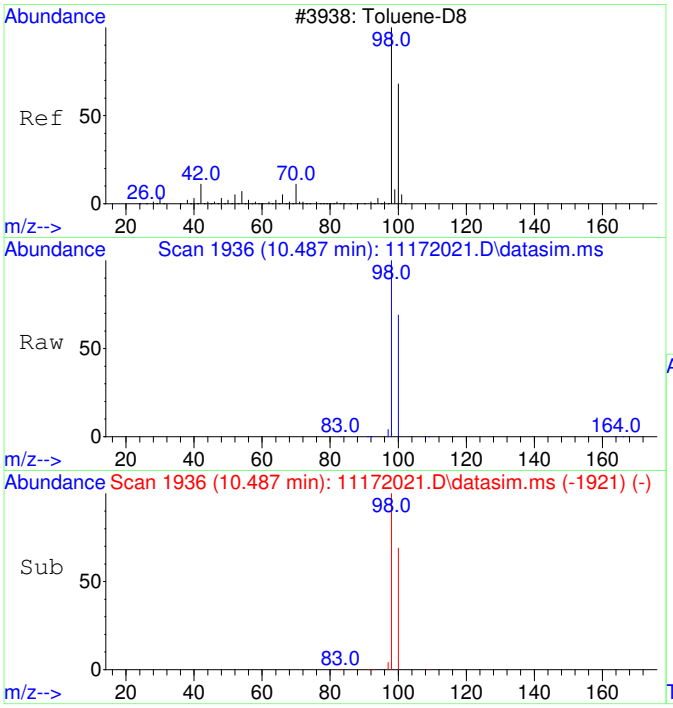


#11
Trichloroethene
Concen: 22627.40 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:130 Resp: 630713

Ion	Ratio	Lower	Upper
130	100		
95	98.5	60.7	120.7
132	100.2	76.0	116.0
97	63.0	38.6	78.6

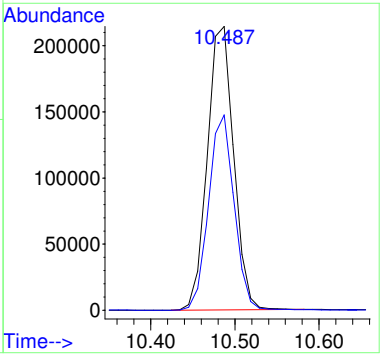


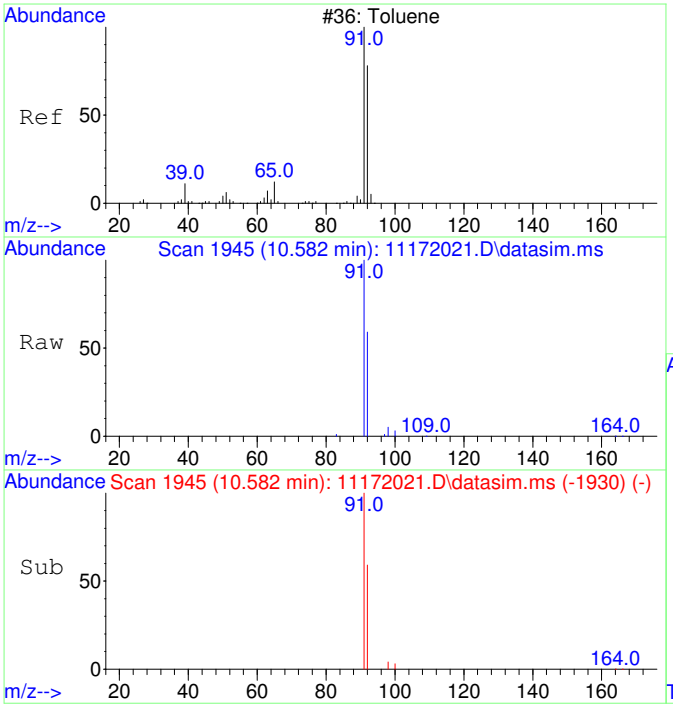


#12
Toluene-d8
Concen: 4371.76 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 98 Resp: 466315

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

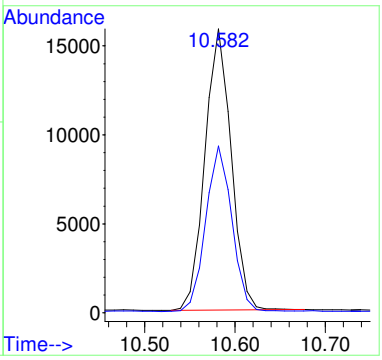


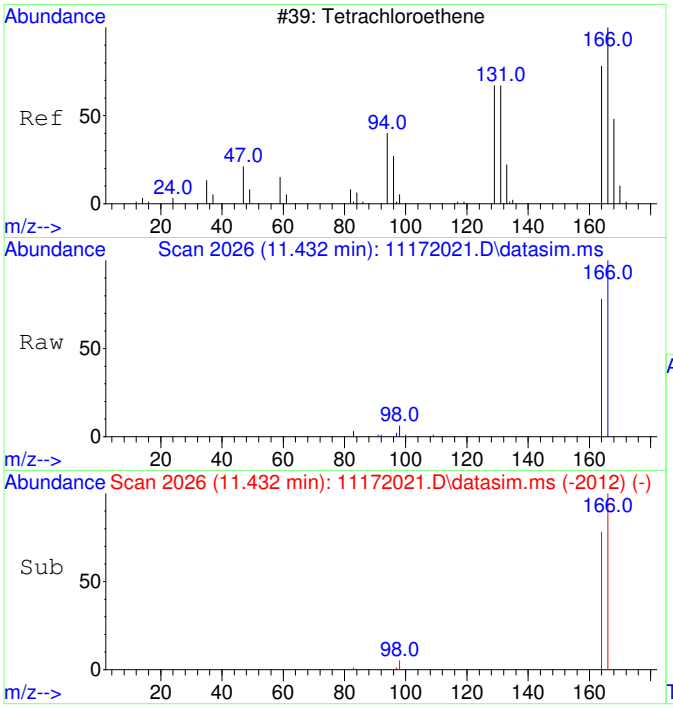


#13
Toluene
Concen: 234.52 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 31892

Ion	Ratio	Lower	Upper
91	100		
92	58.1	29.9	89.9

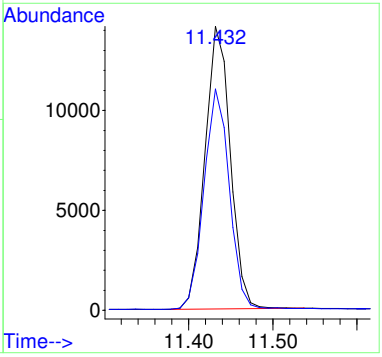


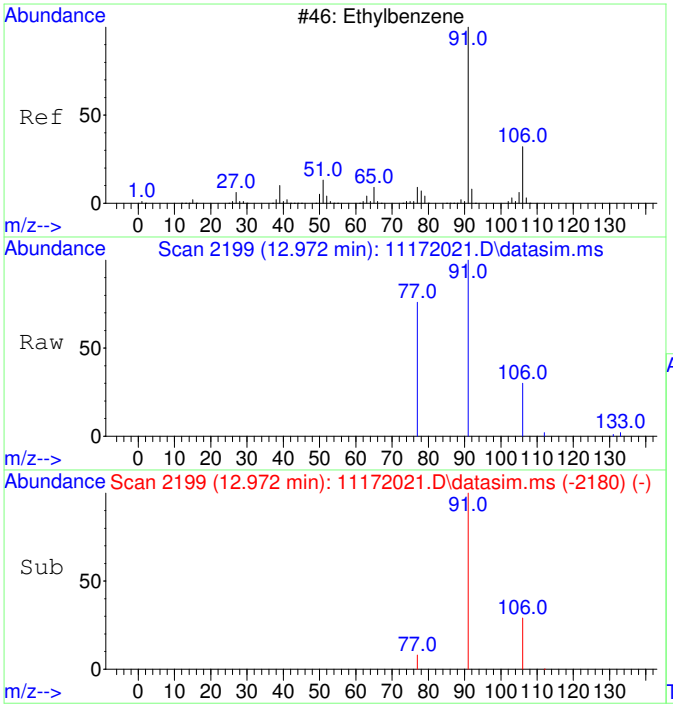


#15
Tetrachloroethene
Concen: 751.50 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:166 Resp: 29575

Ion	Ratio	Lower	Upper
166	100		
164	77.5	47.8	107.8

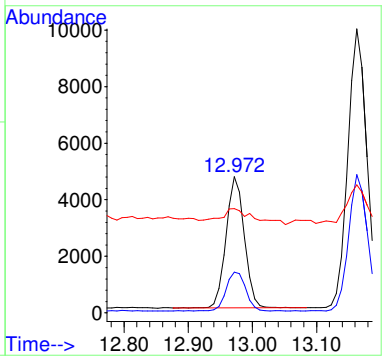


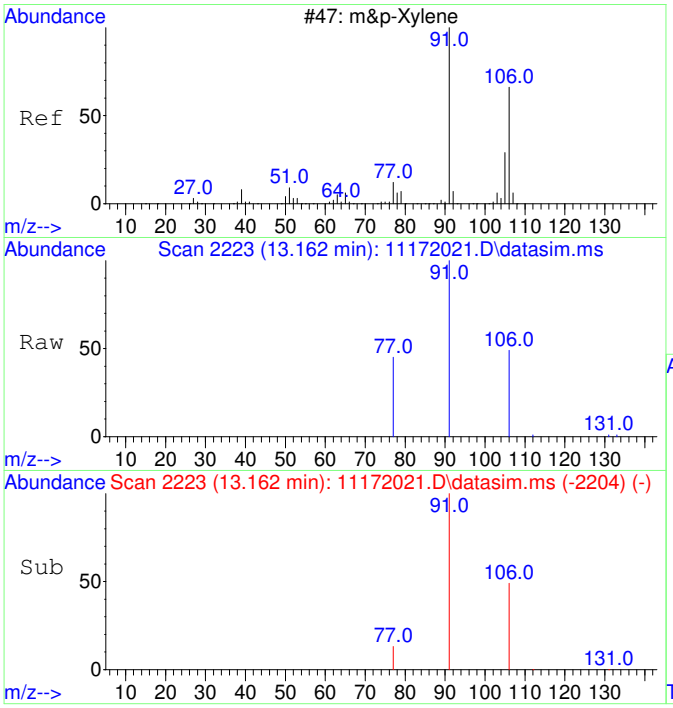


#18
Ethylbenzene
Concen: 55.19 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 9135

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	22.8	0.0	38.2

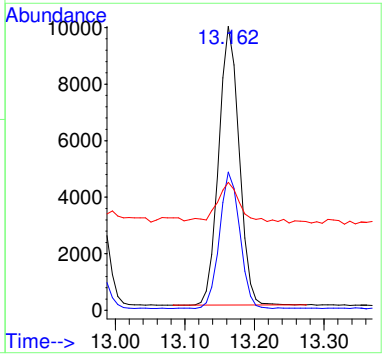


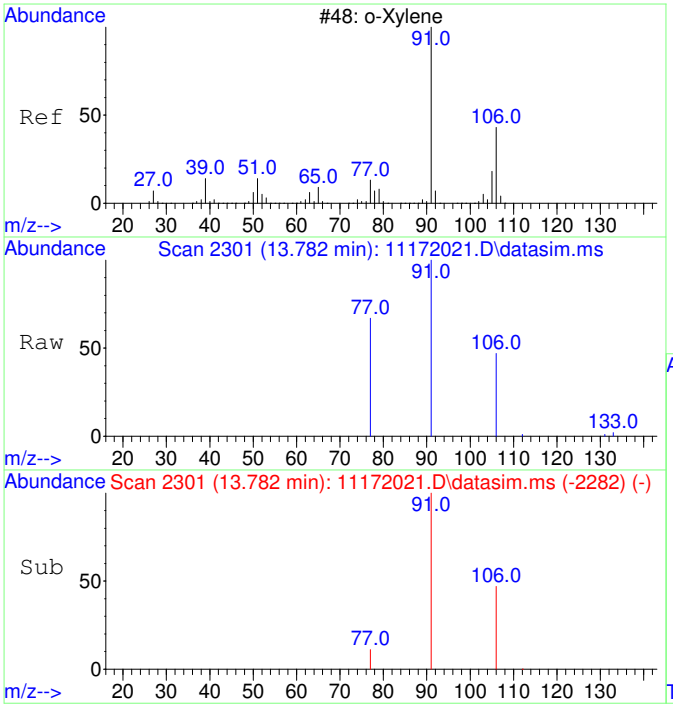


#19
m&p-Xylene
Concen: 155.59 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 20129

Ion	Ratio	Lower	Upper
91	100		
106	48.5	22.2	82.2
77	17.5	0.0	42.4

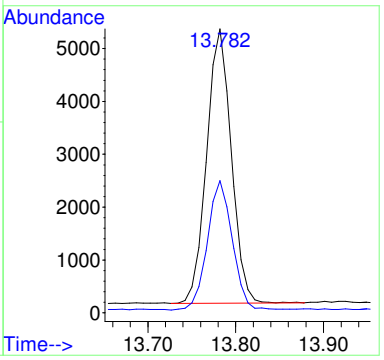


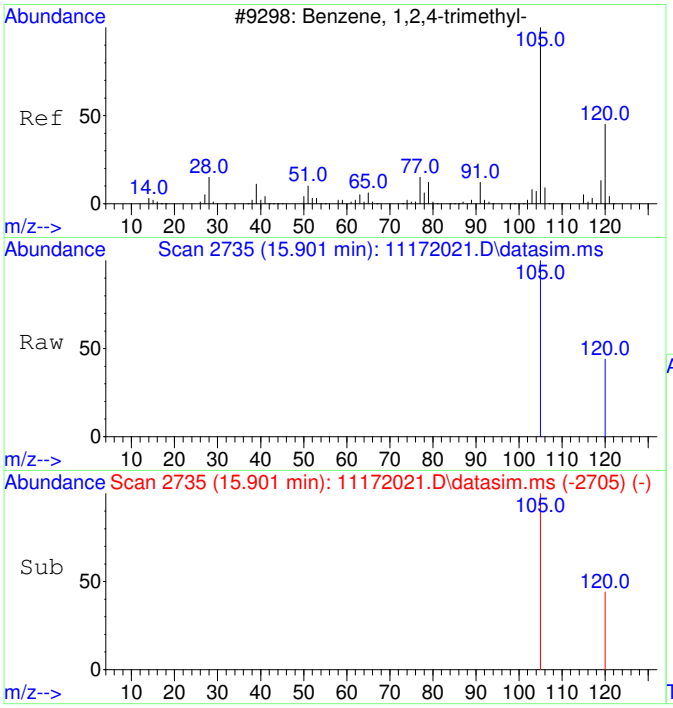


#20
o-Xylene
Concen: 73.10 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 10104

Ion	Ratio	Lower	Upper
91	100		
106	47.0	19.2	79.2

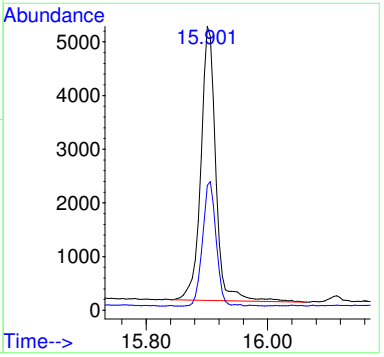


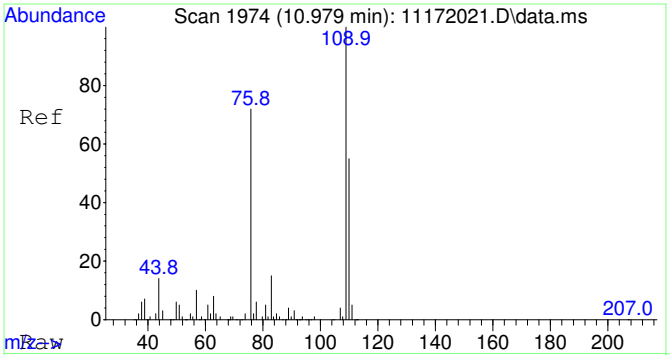


#23
1,2,4-Trimethylbenzene
Concen: 57.11 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:105 Resp: 8727

Ion	Ratio	Lower	Upper
105	100		
120	41.1	17.2	77.2

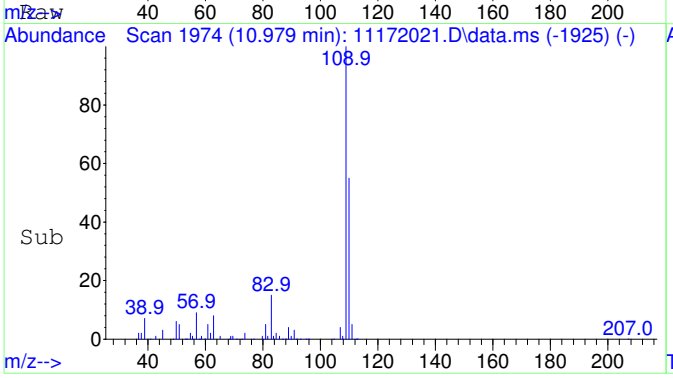


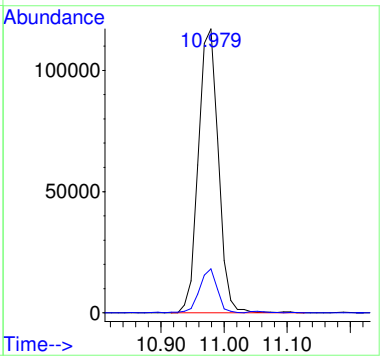


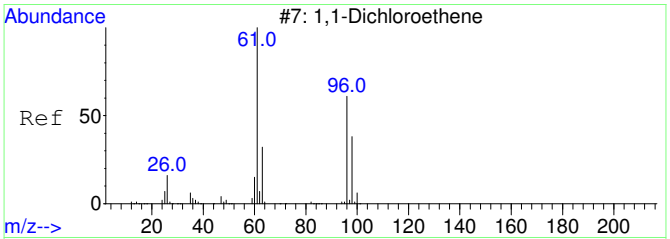
#25
2-Fluorotoluene SCAN
Concen: 4855.62 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:109 Resp: 257908

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	43.8



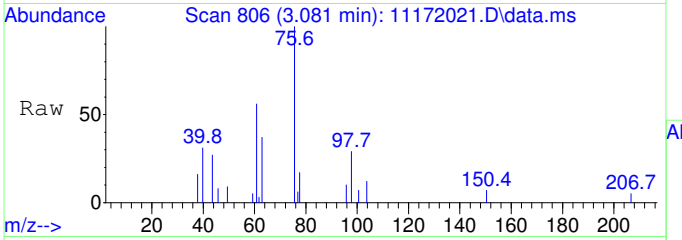


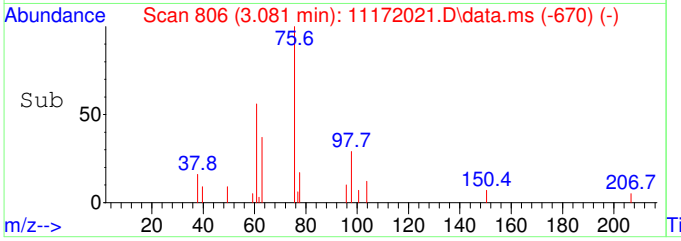


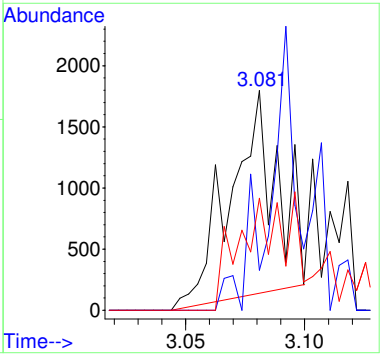
#26
1,1-Dichloroethene SCAN
Concen: 203.37 ug/L
RT: 3.081 min Scan# 806
Delta R.T. 0.004 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

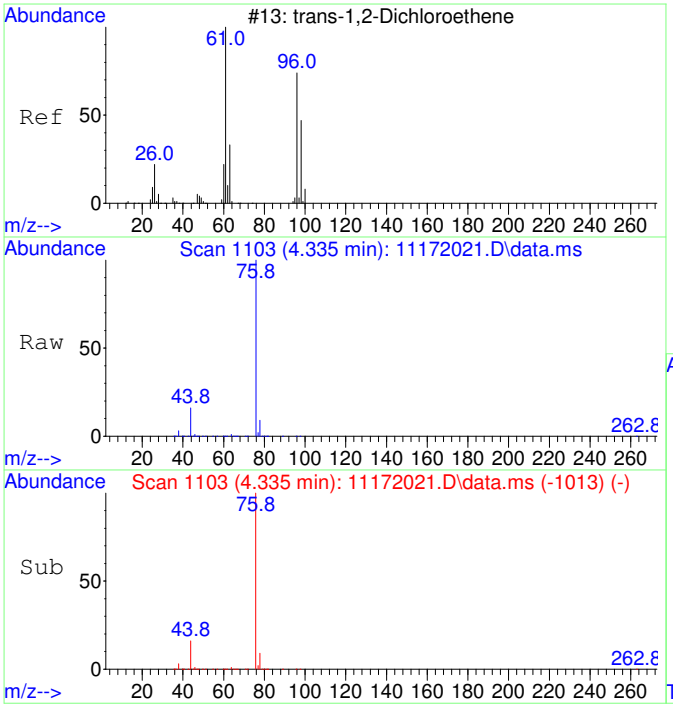
Tgt Ion: 61 Resp: 2294

Ion	Ratio	Lower	Upper
61	100		
96	50.9	33.1	93.1
98	46.3	11.2	71.2





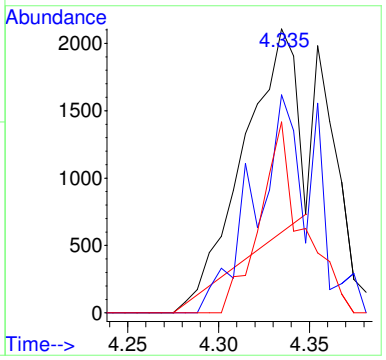


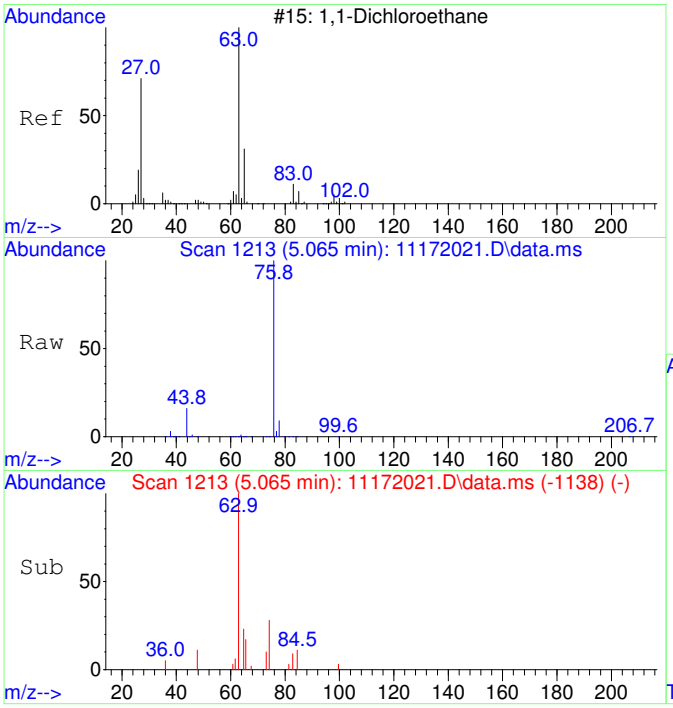


#27
trans-1,2-Dichloroethene SCAN
Concen: 212.20 ug/L
RT: 4.335 min Scan# 1103
Delta R.T. -0.013 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 61 Resp: 2962

Ion	Ratio	Lower	Upper
61	100		
96	123.0	49.0	109.0#
98	77.9	20.5	80.5

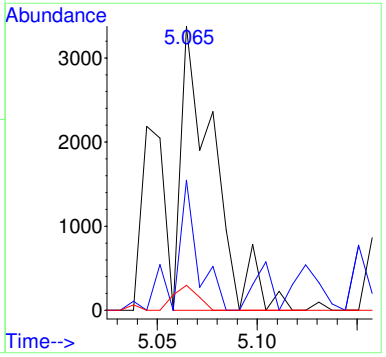


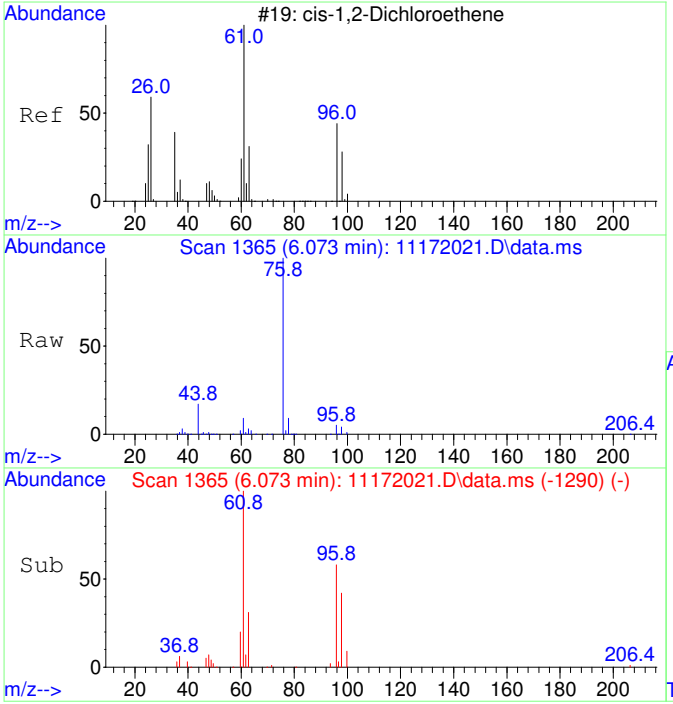


#28
1,1-Dichloroethane SCAN
Concen: 236.78 ug/L
RT: 5.065 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 63 Resp: 3825

Ion	Ratio	Lower	Upper
63	100		
65	31.2	1.3	61.3
83	7.3	0.0	45.9

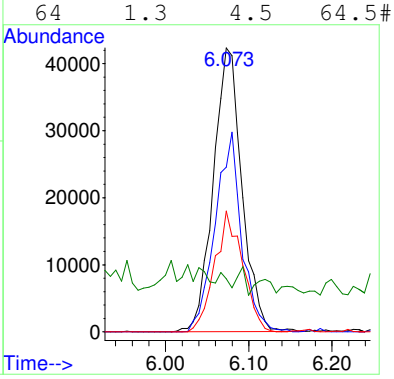


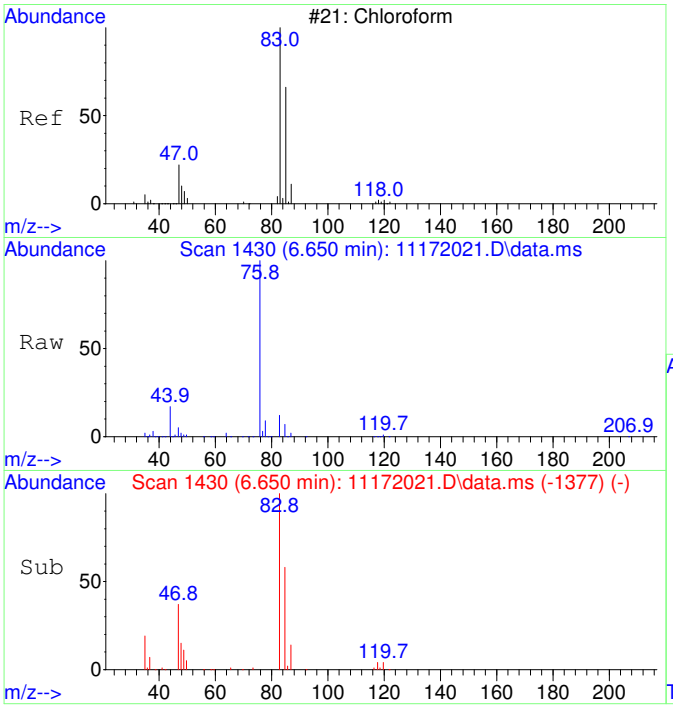


#29
cis-1,2-Dichloroethene SCAN
Concen: 5840.49 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 61 Resp: 101085

Ion	Ratio	Lower	Upper
61	100		
96	65.4	39.9	99.9
98	41.6	13.5	73.5
64	1.3	4.5	64.5#

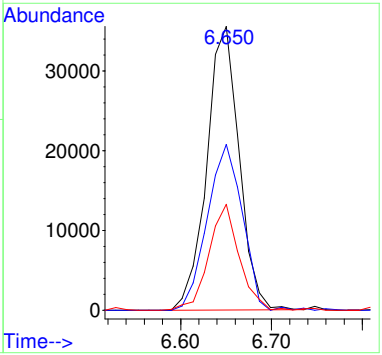


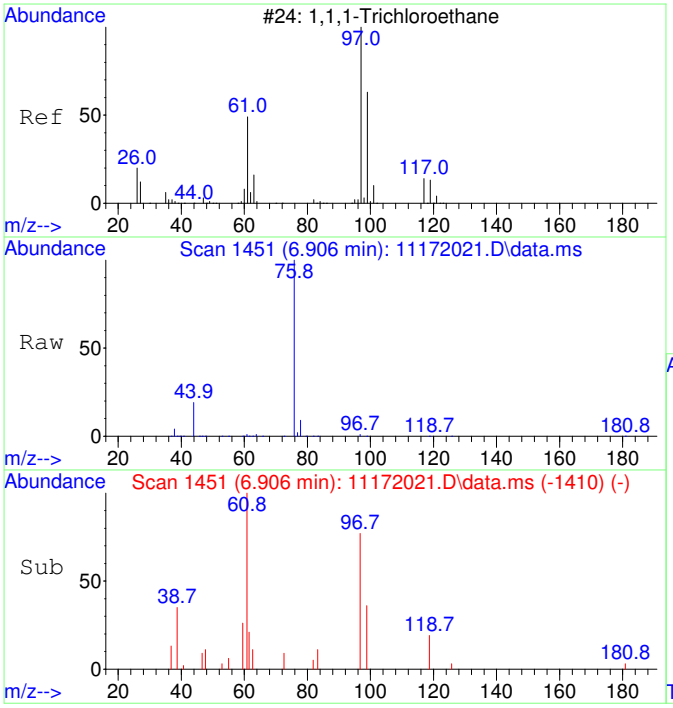


#30
Chloroform SCAN
Concen: 4701.76 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 83 Resp: 88264

Ion	Ratio	Lower	Upper
83	100		
85	63.8	34.6	94.6
47	34.9	0.0	53.4

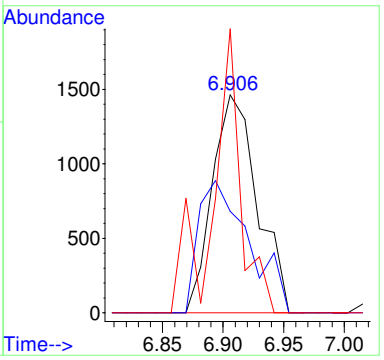


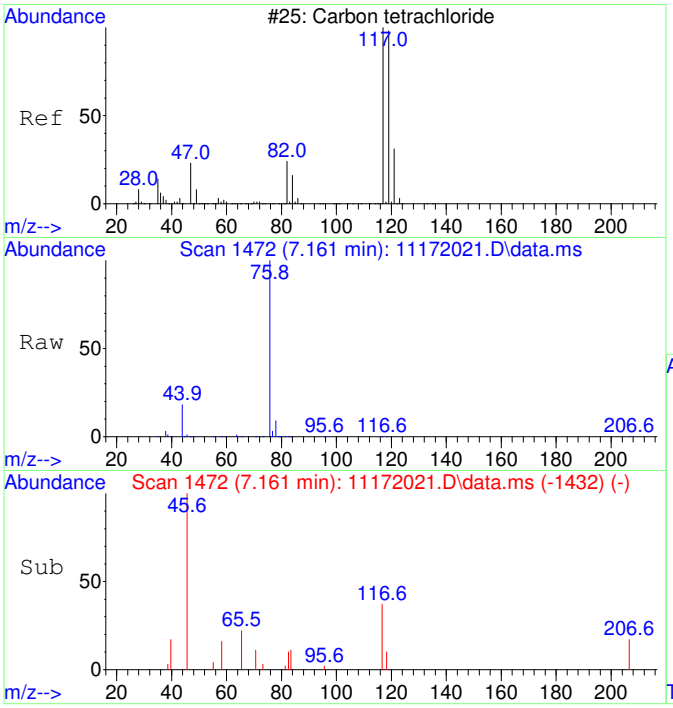


#31
1,1,1-Trichloroethane SCAN
Concen: 221.96 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 97 Resp: 3797

Ion	Ratio	Lower	Upper
97	100		
99	67.6	43.6	103.6
61	80.0	18.0	78.0#

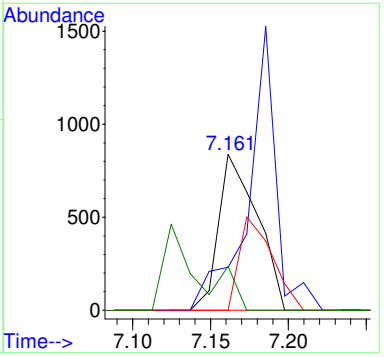


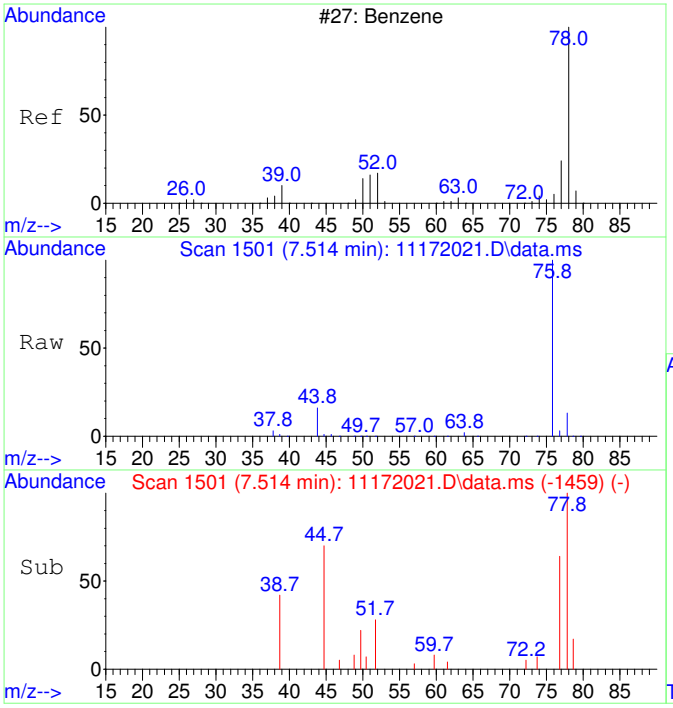


#32
Carbon tetrachloride SCAN
Concen: 81.48 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.012 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:117 Resp: 1454

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	51.0	0.0	58.8
82	0.0	0.0	59.2

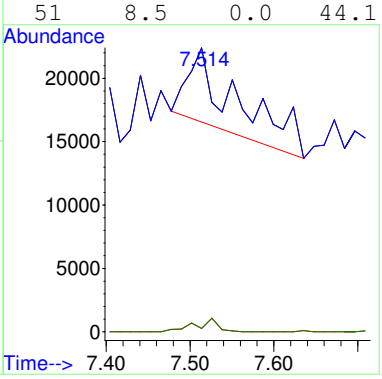


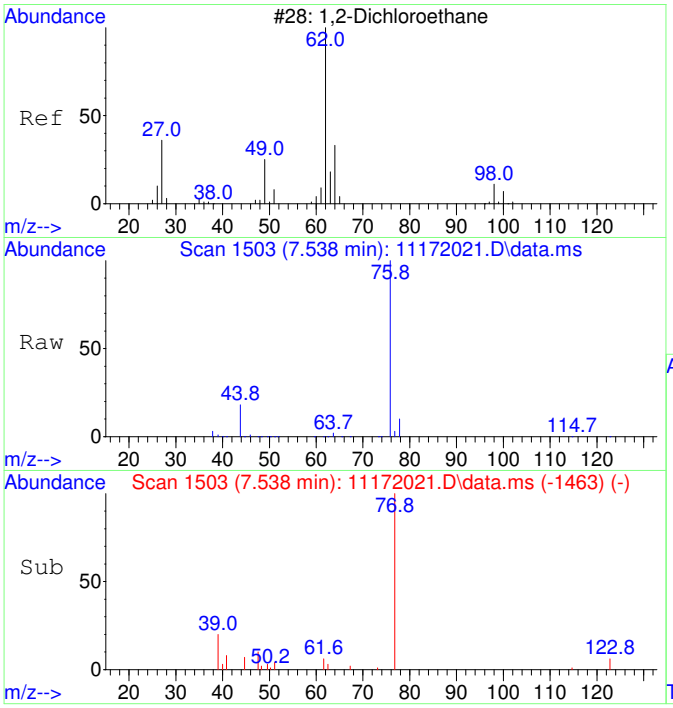


#33
Benzene SCAN
Concen: 492.97 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 78 Resp: 23220

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.5	0.0	47.9
51	8.5	0.0	44.1

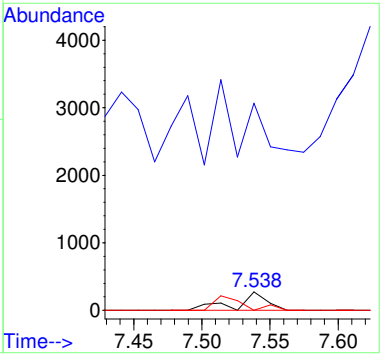


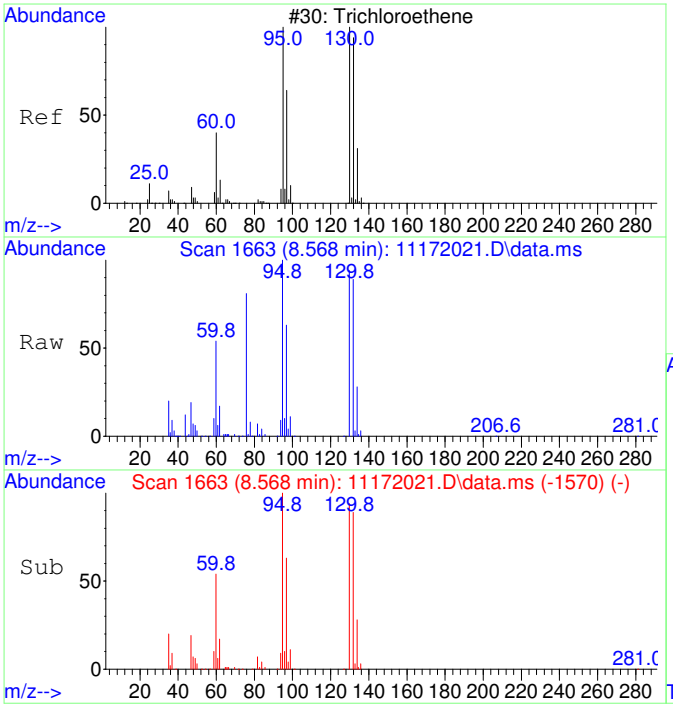


#34
1,2-Dichloroethane SCAN
Concen: 24.21 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 62 Resp: 421

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	0.0	3.9	63.9#

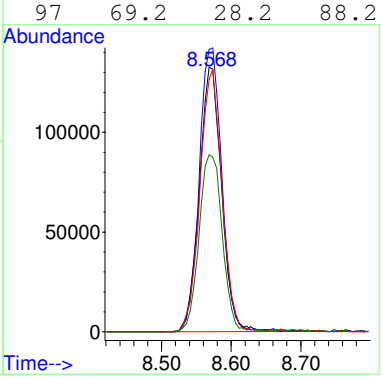


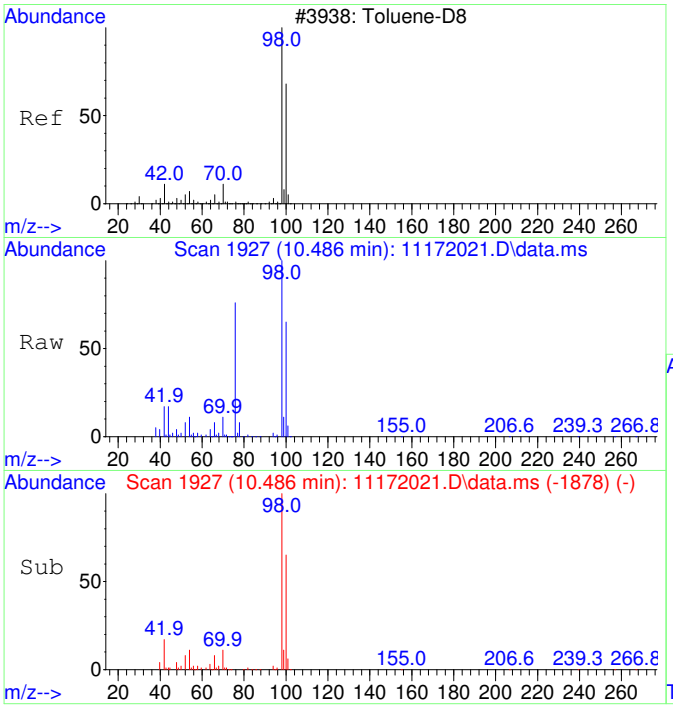


#35
Trichloroethene SCAN
Concen: 22845.61 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:130 Resp: 295713

Ion	Ratio	Lower	Upper
130	100		
95	107.7	60.5	120.5
132	96.9	59.6	119.6
97	69.2	28.2	88.2

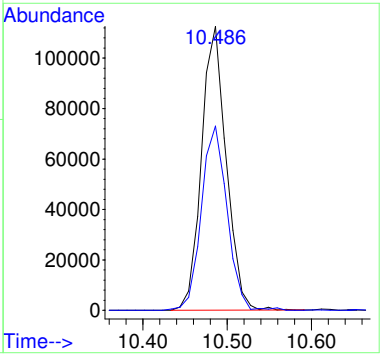


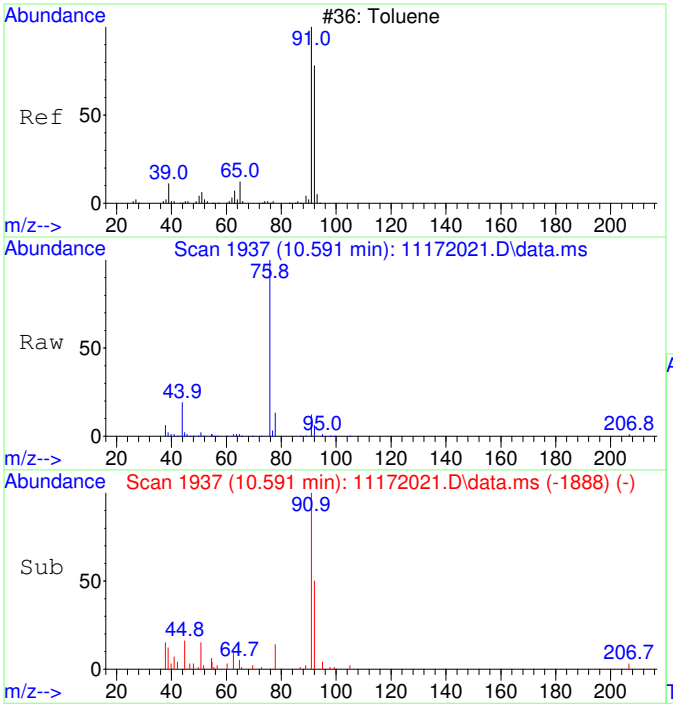


#36
Toluene-d8 SCAN
Concen: 4407.82 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 98 Resp: 228965

Ion	Ratio	Lower	Upper
98	100		
100	67.6	40.0	100.0

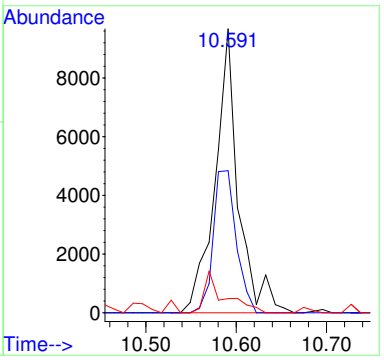


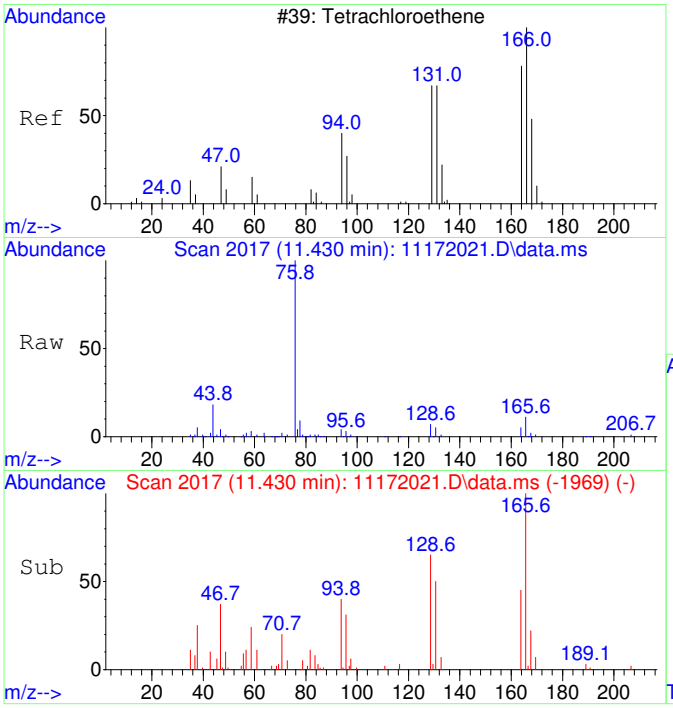


#37
Toluene SCAN
Concen: 260.48 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 17328

Ion	Ratio	Lower	Upper
91	100		
92	49.6	28.3	88.3
65	0.0	0.0	41.0

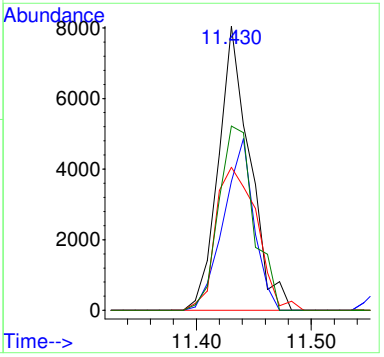


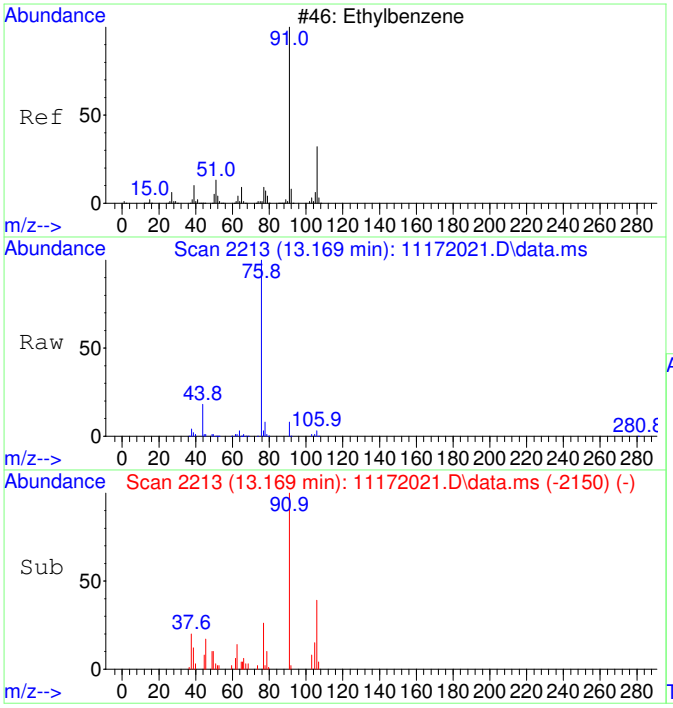


#39
Tetrachloroethene SCAN
Concen: 960.39 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:166 Resp: 15349

Ion	Ratio	Lower	Upper
166	100		
164	58.3	50.9	110.9
131	65.8	38.7	98.7
129	72.2	41.8	101.8

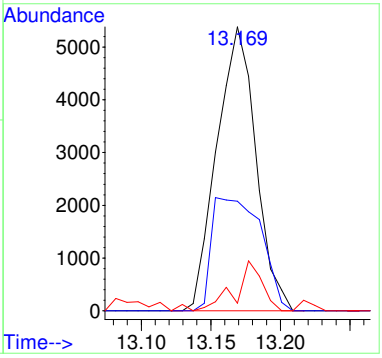


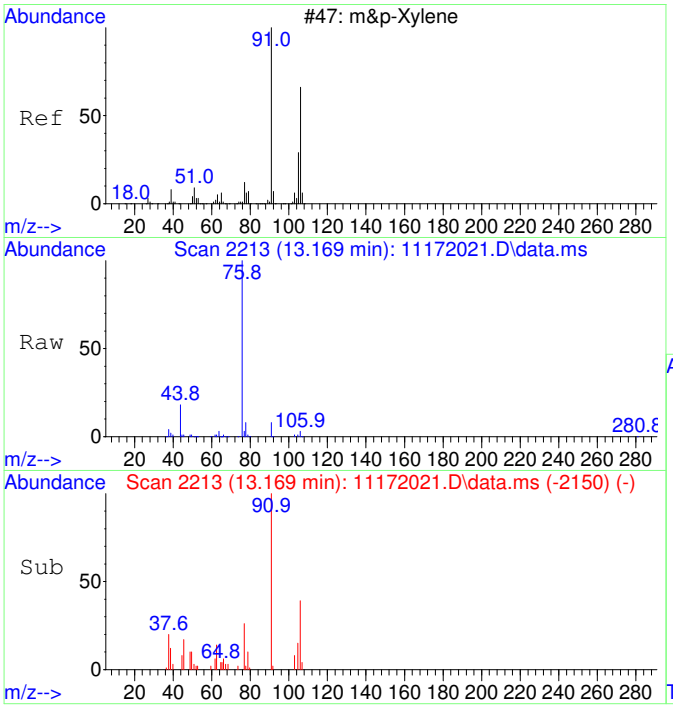


#42
Ethylbenzene SCAN
Concen: 86.81 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 10521

Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.1	83.1#
51	11.9	0.0	40.1

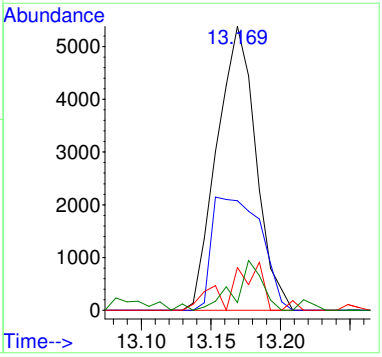


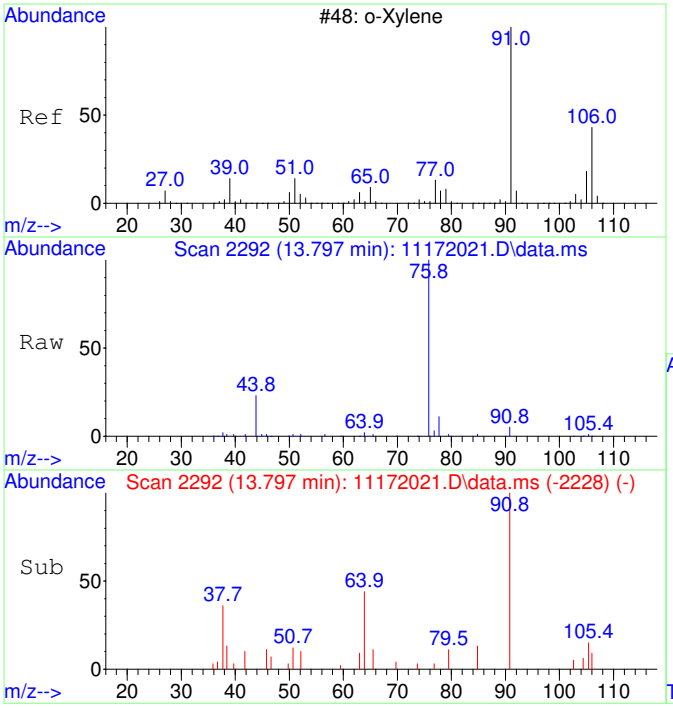


#43
m&p-Xylene SCAN
Concen: 86.81 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 10521

Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.1	83.1#
105	14.3	0.0	54.7
51	11.9	0.0	40.1

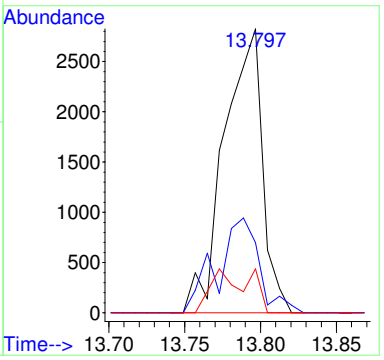


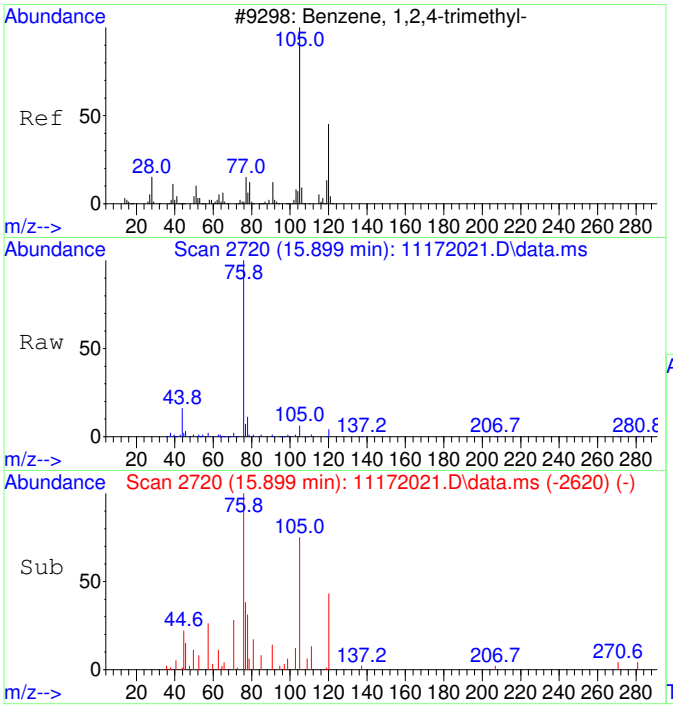


#44
o-Xylene SCAN
Concen: 76.26 ug/L
RT: 13.797 min Scan# 2292
Delta R.T. 0.008 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 4947

Ion	Ratio	Lower	Upper
91	100		
106	36.7	18.0	78.0
105	0.0	0.0	56.6

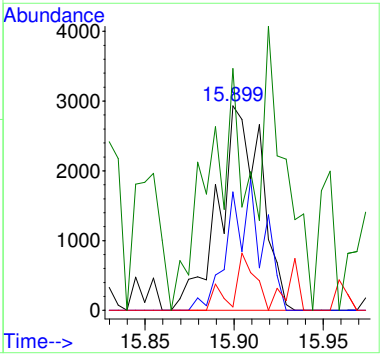




#47
1,2,4-Trimethylbenzene SCAN
Concen: 69.97 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.005 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:105 Resp: 4895

Ion	Ratio	Lower	Upper
105	100		
120	50.0	16.9	76.9
119	14.5	0.0	41.9
77	66.2	0.0	42.3#



Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172021.D
Acq On : 17 Nov 2020 15:47
InstName : AG5975C
Operator : TD
Sample : 2011017-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 18 06:16:22 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

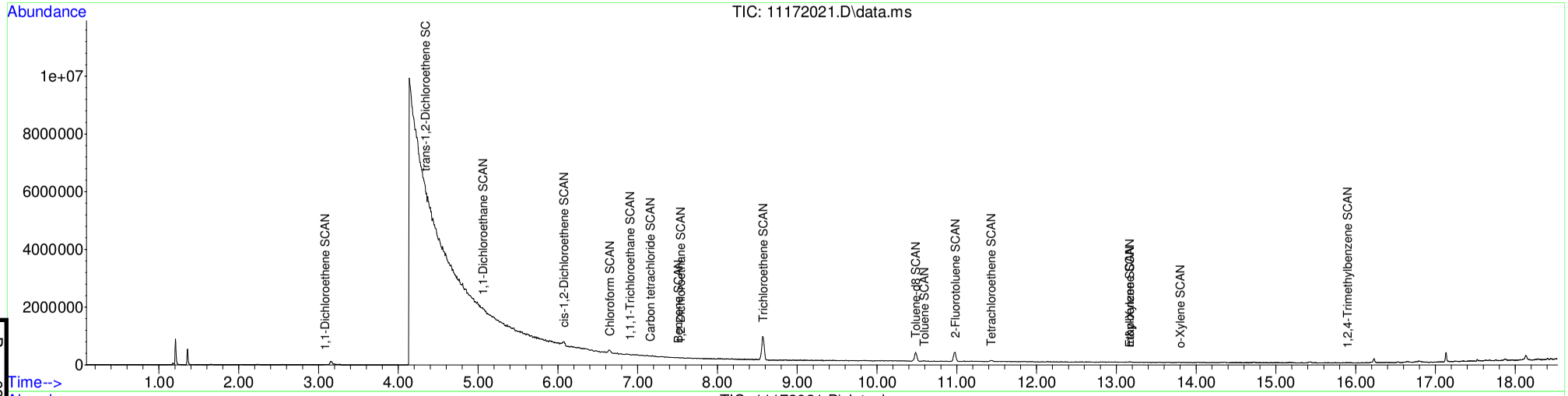
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	544876	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	466315	4371.76 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.44%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	7946	365.20 ug/L	87
3] trans-1,2-Dichloroethene	4.336	61	9566	380.54 ug/L	92
4] 1,1-Dichloroethane	5.059	63	9648	308.32 ug/L	87
5] cis-1,2-Dichloroethene	6.074	61	179279	5427.56 ug/L	99
6] Chloroform	6.639	83	171897	5084.40 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	6466	176.11 ug/L	99
8] Carbon tetrachloride	7.175	117	3115	90.14 ug/L	98
9] Benzene	7.503	78	14514	156.78 ug/L	57
10] 1,2-Dichloroethane	7.540	62	675	20.42 ug/L #	1
11] Trichloroethene	8.569	130	630713	22627.40 ug/L	94
13] Toluene	10.582	91	31892	234.52 ug/L	98
15] Tetrachloroethene	11.432	166	29575	751.50 ug/L	100
18] Ethylbenzene	12.972	91	9135	55.19 ug/L	90
19] m&p-Xylene	13.162	91	20129	155.59 ug/L	93
20] o-Xylene	13.782	91	10104	73.10 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	8727	57.11 ug/L	91
25) 2-Fluorotoluene SCAN	10.979	109	257908	4855.62 ug/L	100
26) 1,1-Dichloroethene SCAN	3.081	61	2294	203.37 ug/L	87
27) trans-1,2-Dichloroethe...	4.335	61	2962	212.20 ug/L #	54
28) 1,1-Dichloroethane SCAN	5.065	63	3825	236.78 ug/L	93
29) cis-1,2-Dichloroethene...	6.073	61	101085	5840.49 ug/L #	83
30) Chloroform SCAN	6.650	83	88264	4701.76 ug/L	93
31) 1,1,1-Trichloroethane ...	6.906	97	3797	221.96 ug/L #	77
32) Carbon tetrachloride SCAN	7.161	117	1454	81.48 ug/L #	17
33) Benzene SCAN	7.514	78	23220	492.97 ug/L	96
34) 1,2-Dichloroethane SCAN	7.538	62	421	24.21 ug/L #	40
35) Trichloroethene SCAN	8.568	130	295713	22845.61 ug/L	87
36) Toluene-d8 SCAN	10.486	98	228965	4407.82 ug/L	97
37) Toluene SCAN	10.591	91	17328	260.48 ug/L #	86
39) Tetrachloroethene SCAN	11.430	166	15349	960.39 ug/L	89
42) Ethylbenzene SCAN	13.169	91	10521	86.81 ug/L #	36
43) m&p-Xylene SCAN	13.169	91	10521	86.81 ug/L #	48
44) o-Xylene SCAN	13.797	91	4947	76.26 ug/L #	71
47) 1,2,4-Trimethylbenzene...	15.899	105	4895	69.97 ug/L #	72

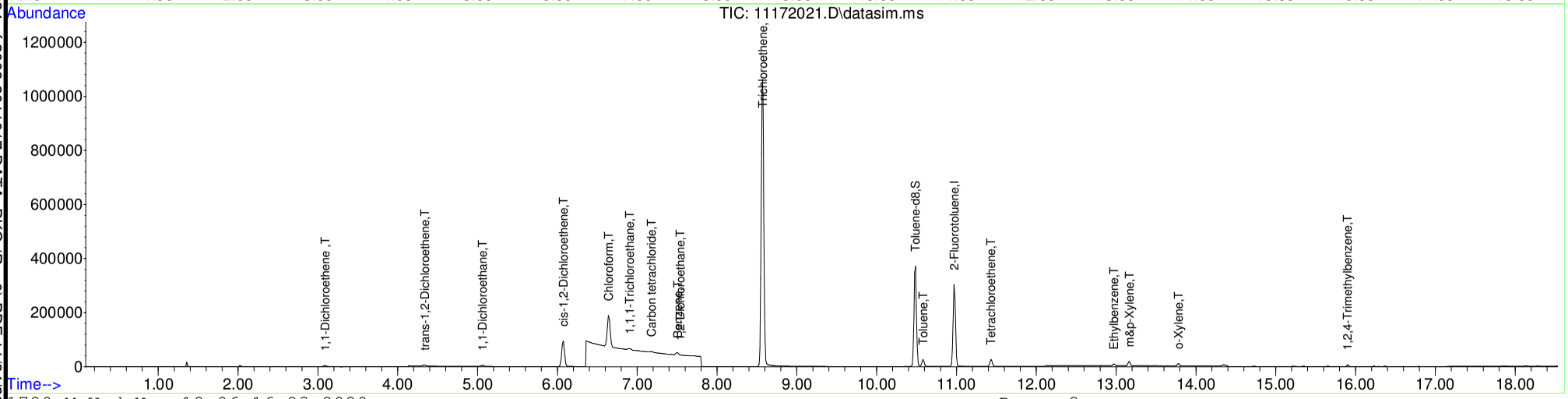
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172021.D
Acq On : 17 Nov 2020 15:47
InstName : AG5975C
Operator : TD
Sample : 2011017-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 18 06:16:22 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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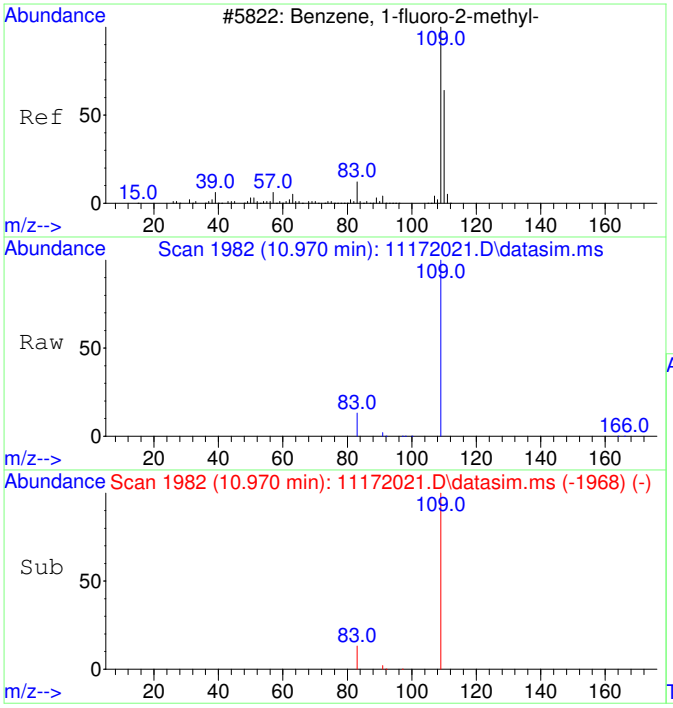
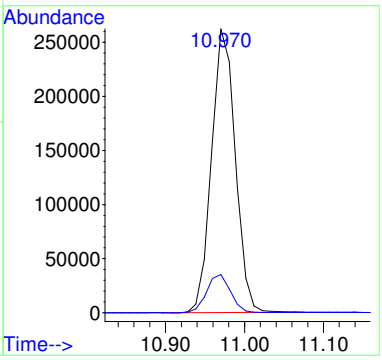
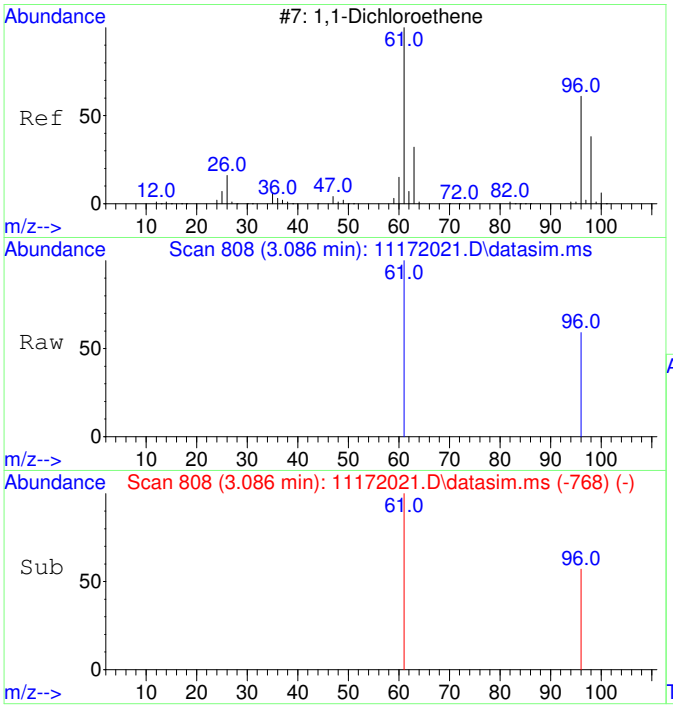


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:109 Resp: 544876

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

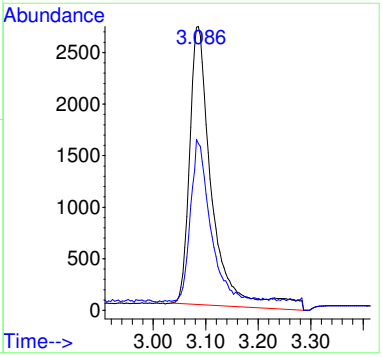




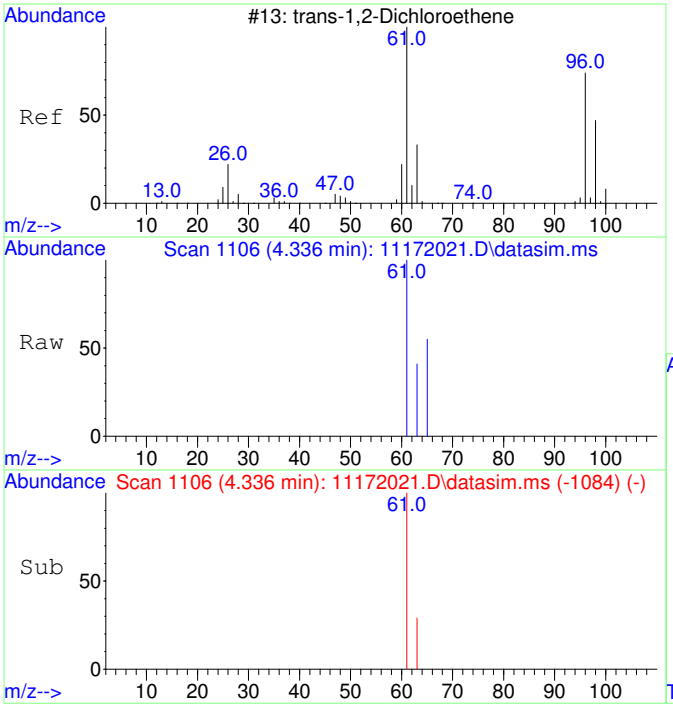
#2
1,1-Dichloroethene
Concen: 365.20 ug/L
RT: 3.086 min Scan# 808
Delta R.T. 0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 61 Resp: 7946

Ion	Ratio	Lower	Upper
61	100		
96	57.1	37.2	97.2



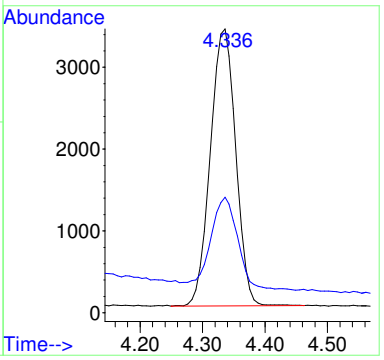
Before MI:
IMPROPER
BASELINE

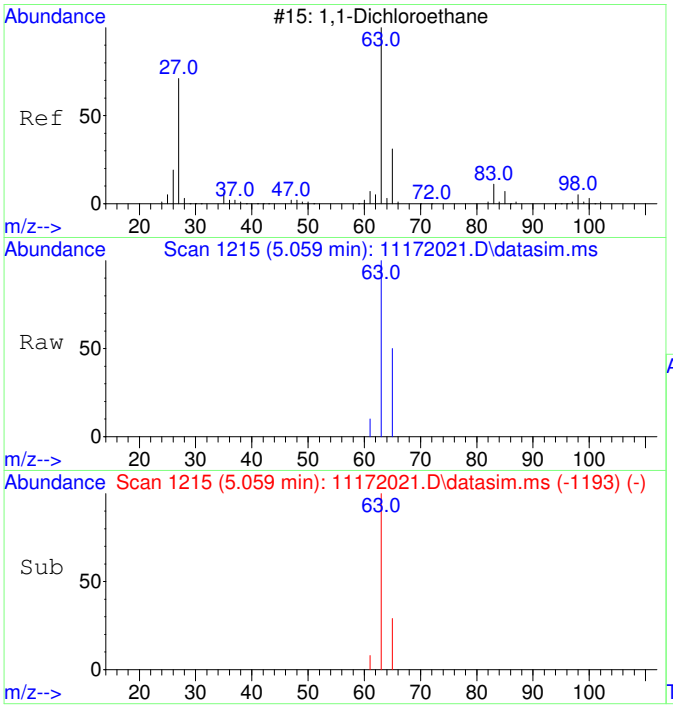


#3
trans-1,2-Dichloroethene
Concen: 380.54 ug/L
RT: 4.336 min Scan# 1106
Delta R.T. -0.007 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 61 Resp: 9566

Ion	Ratio	Lower	Upper
61	100		
63	36.8	2.4	62.4

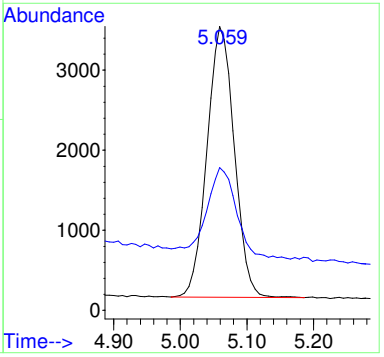


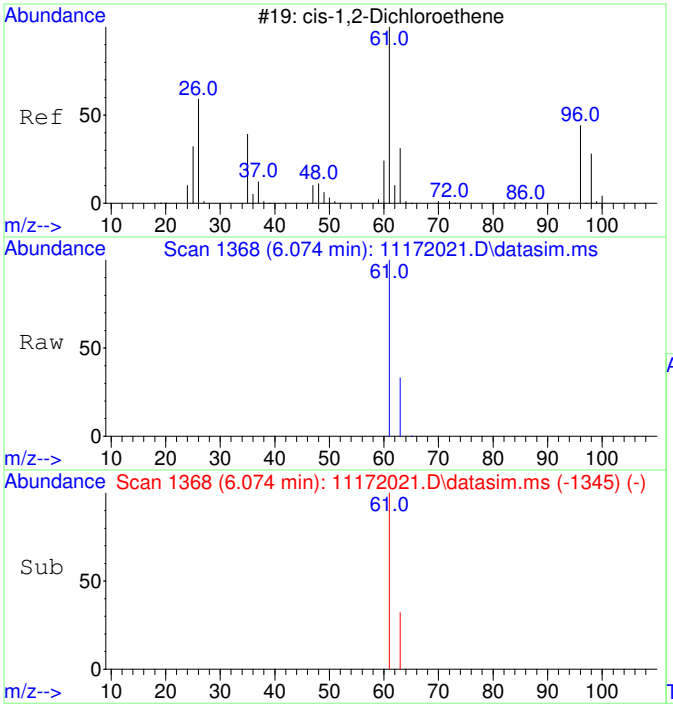


#4
1,1-Dichloroethane
Concen: 308.32 ug/L
RT: 5.059 min Scan# 1215
Delta R.T. -0.007 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 63 Resp: 9648

Ion	Ratio	Lower	Upper
63	100		
65	39.1	1.8	61.8

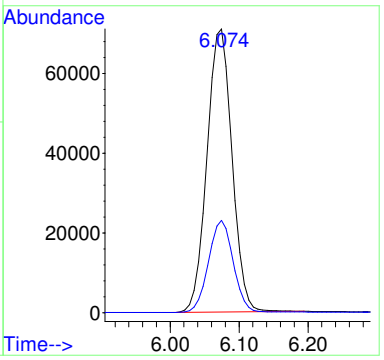


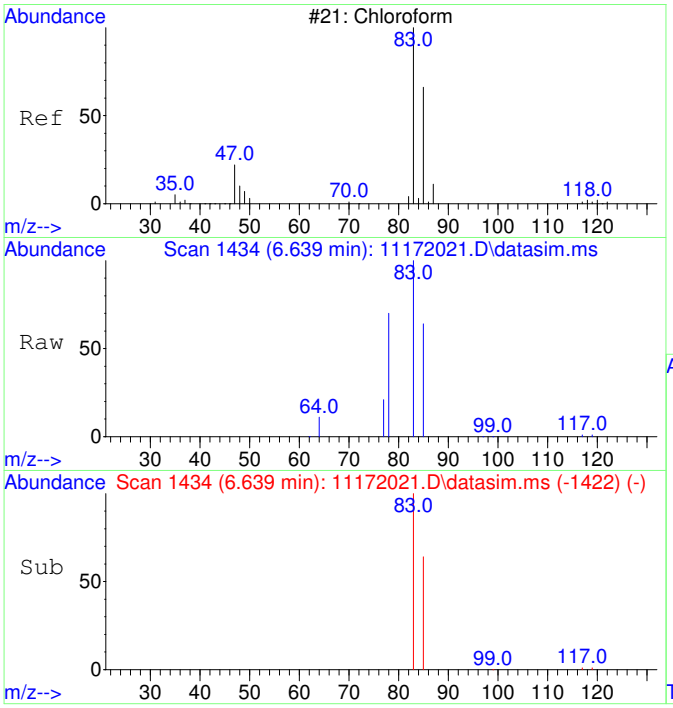


#5
cis-1,2-Dichloroethene
Concen: 5427.56 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 61 Resp: 179279

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

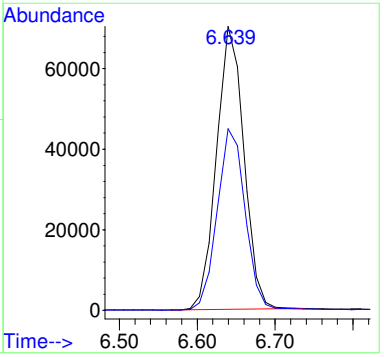


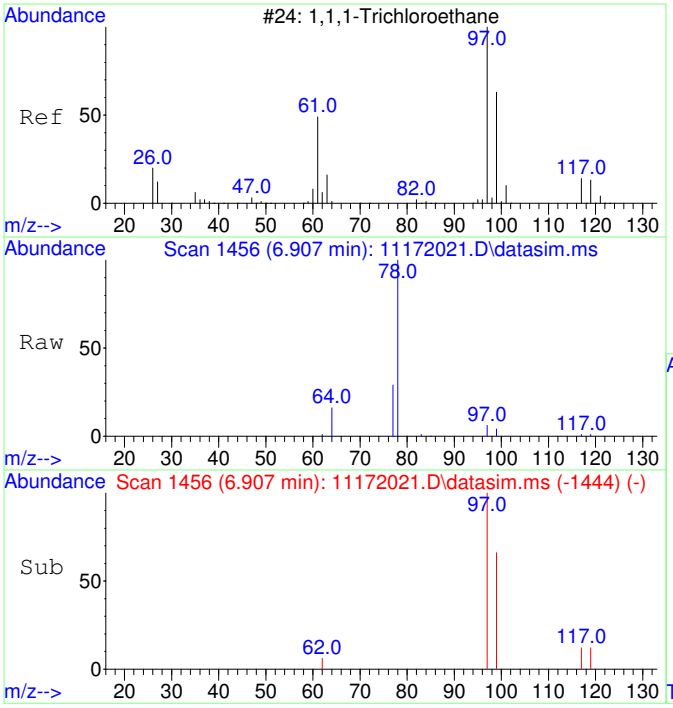


#6
Chloroform
Concen: 5084.40 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 83 Resp: 171897

Ion	Ratio	Lower	Upper
83	100		
85	64.8	35.1	95.1

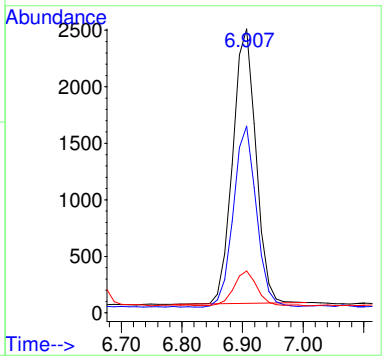


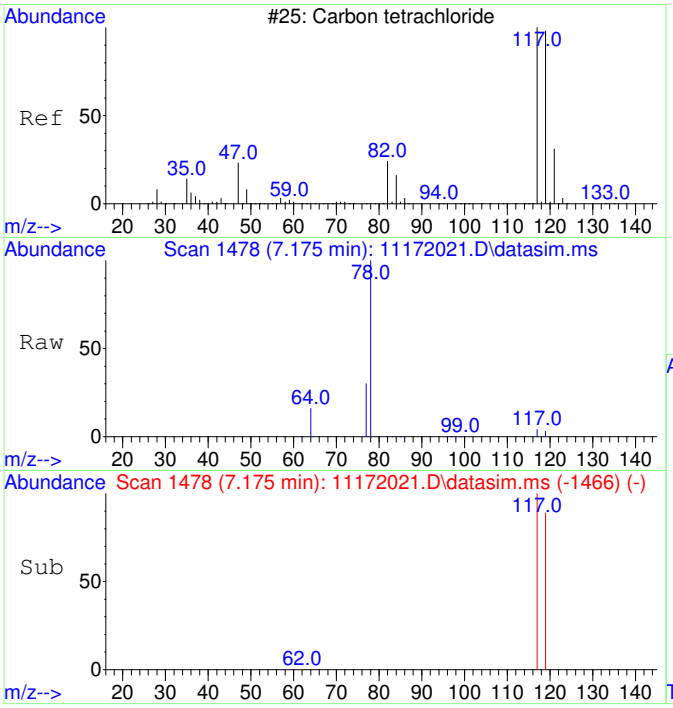


#7
1,1,1-Trichloroethane
Concen: 176.11 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 97 Resp: 6466

Ion	Ratio	Lower	Upper
97	100		
99	65.3	34.6	94.6
117	12.7	0.0	43.2

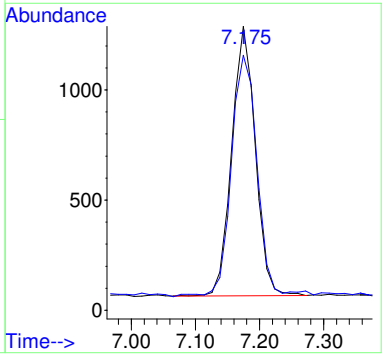


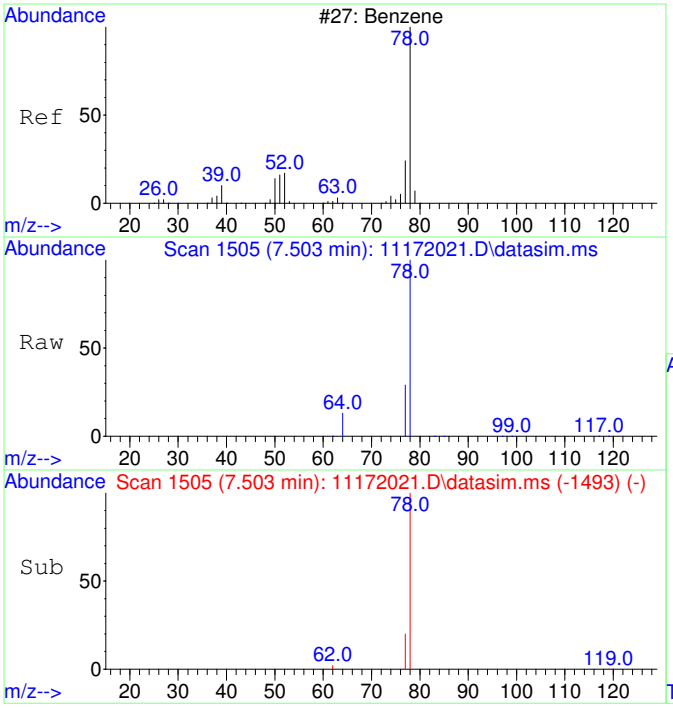


#8
Carbon tetrachloride
Concen: 90.14 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:117 Resp: 3115

Ion	Ratio	Lower	Upper
117	100		
119	98.4	66.4	126.4

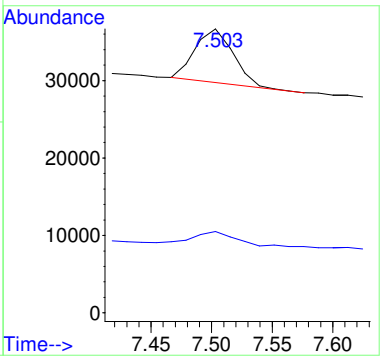


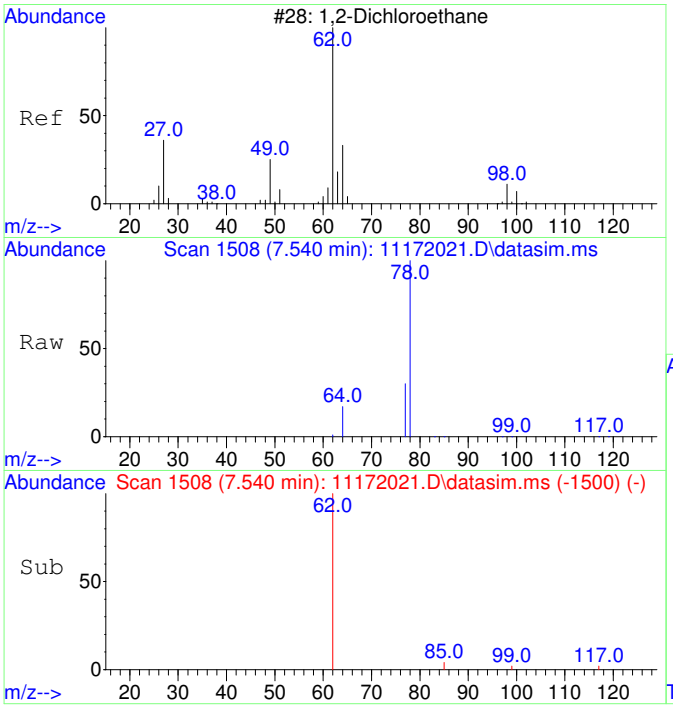


#9
Benzene
Concen: 156.78 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 78 Resp: 14514

Ion	Ratio	Lower	Upper
78	100		
77	44.0	0.0	53.2

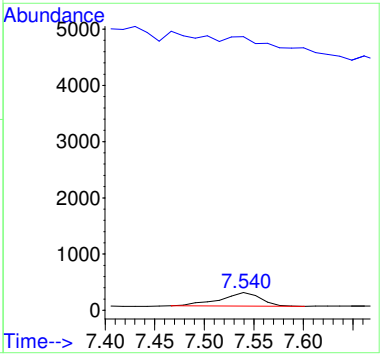


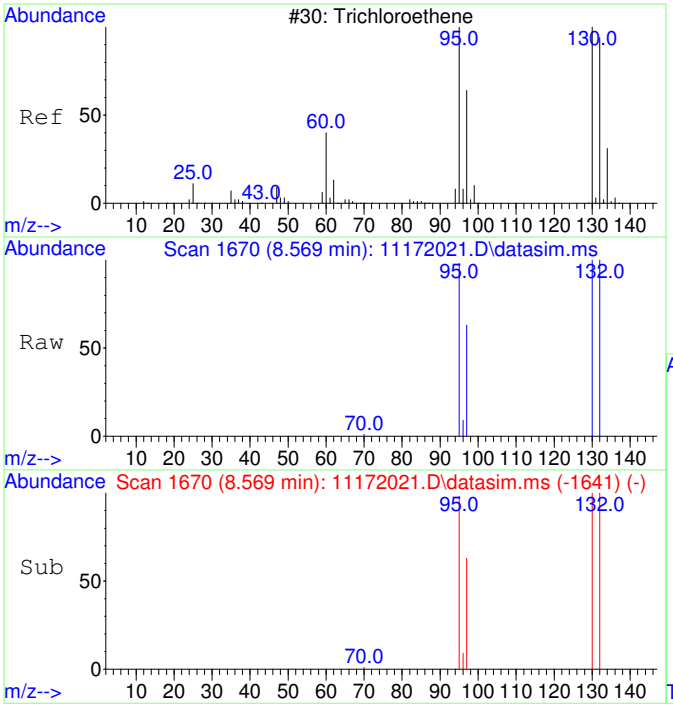


#10
1,2-Dichloroethane
Concen: 20.42 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 62 Resp: 675

Ion	Ratio	Lower	Upper
62	100		
64	184.4	2.3	62.3#

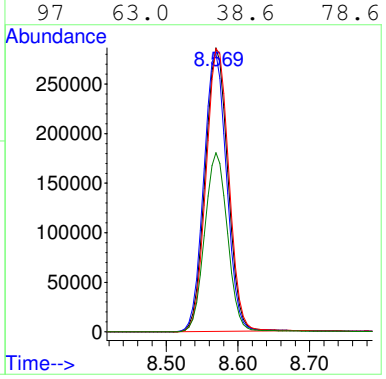


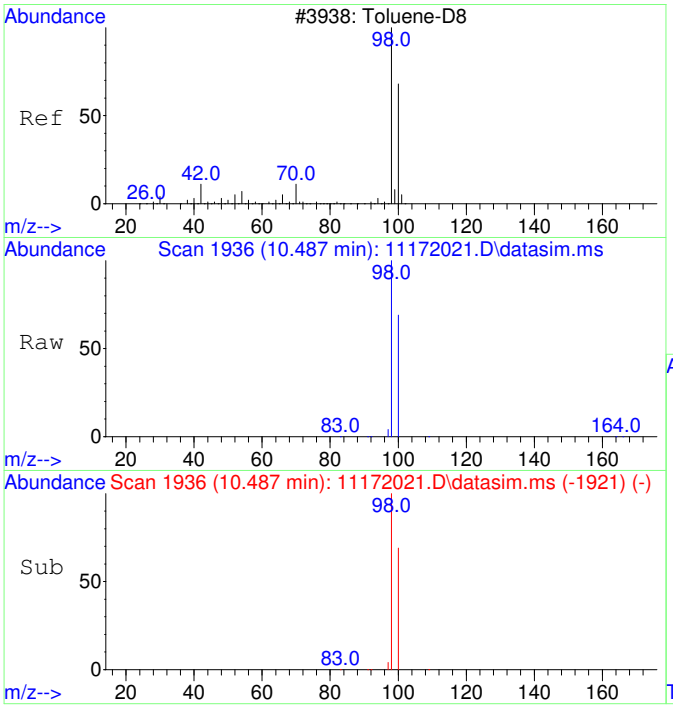


#11
Trichloroethene
Concen: 22627.40 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:130 Resp: 630713

Ion	Ratio	Lower	Upper
130	100		
95	98.5	60.7	120.7
132	100.2	76.0	116.0
97	63.0	38.6	78.6

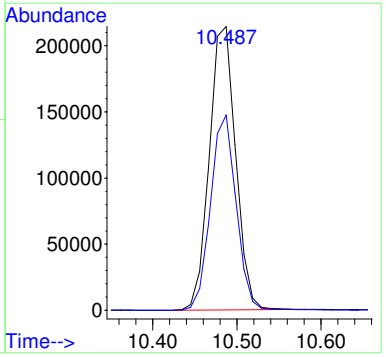


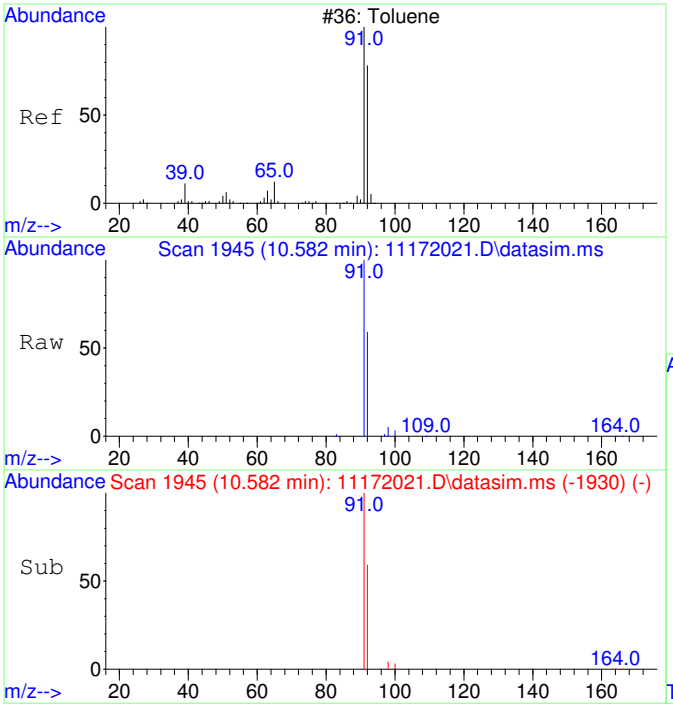


#12
Toluene-d8
Concen: 4371.76 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 98 Resp: 466315

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

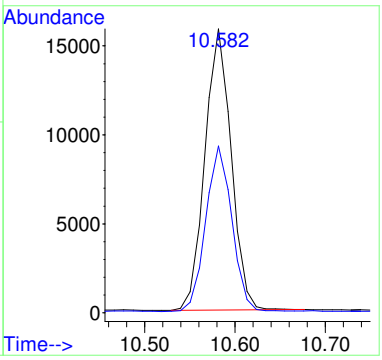


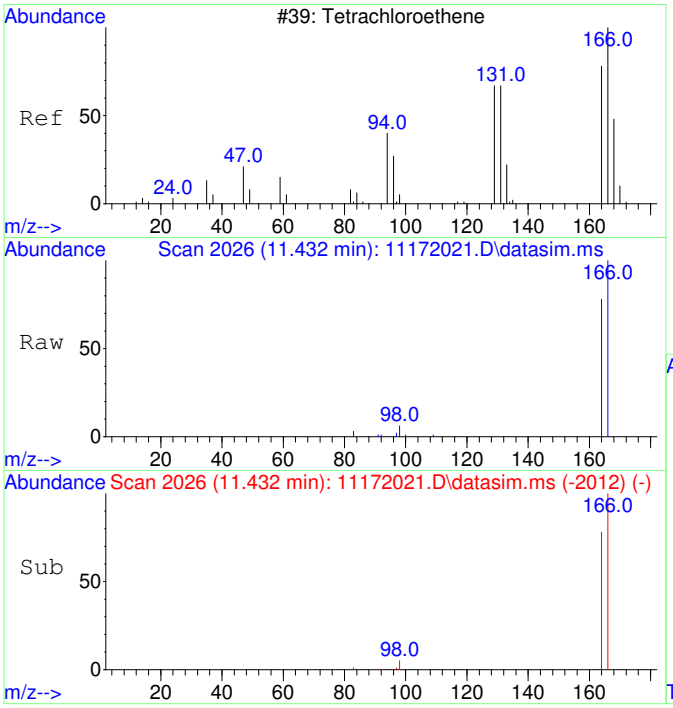


#13
Toluene
Concen: 234.52 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 31892

Ion	Ratio	Lower	Upper
91	100		
92	58.1	29.9	89.9

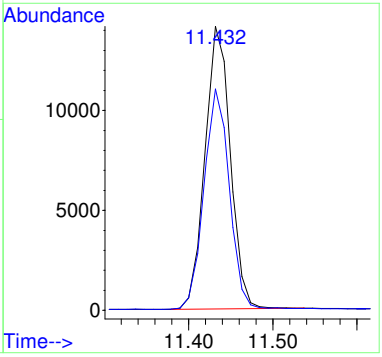


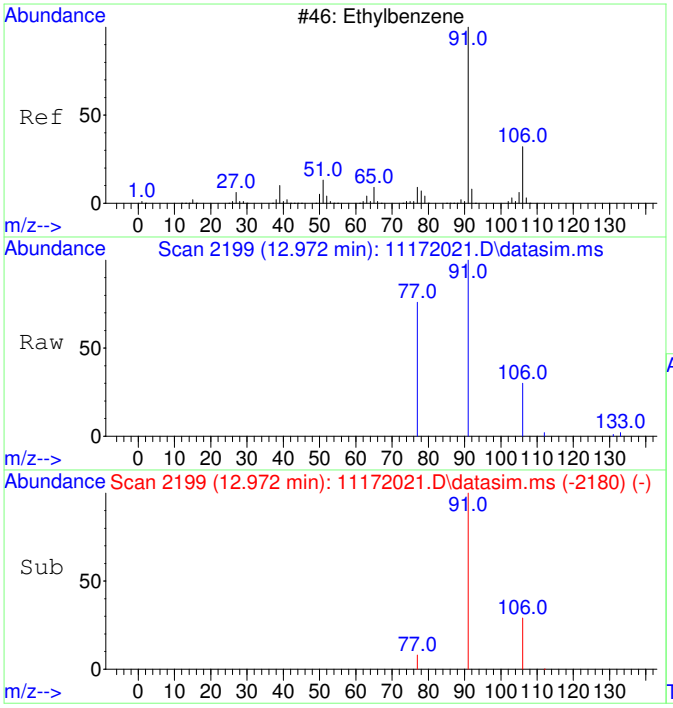


#15
Tetrachloroethene
Concen: 751.50 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:166 Resp: 29575

Ion	Ratio	Lower	Upper
166	100		
164	77.5	47.8	107.8

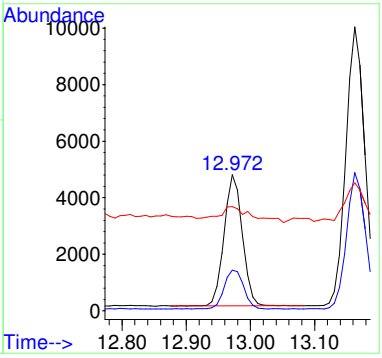


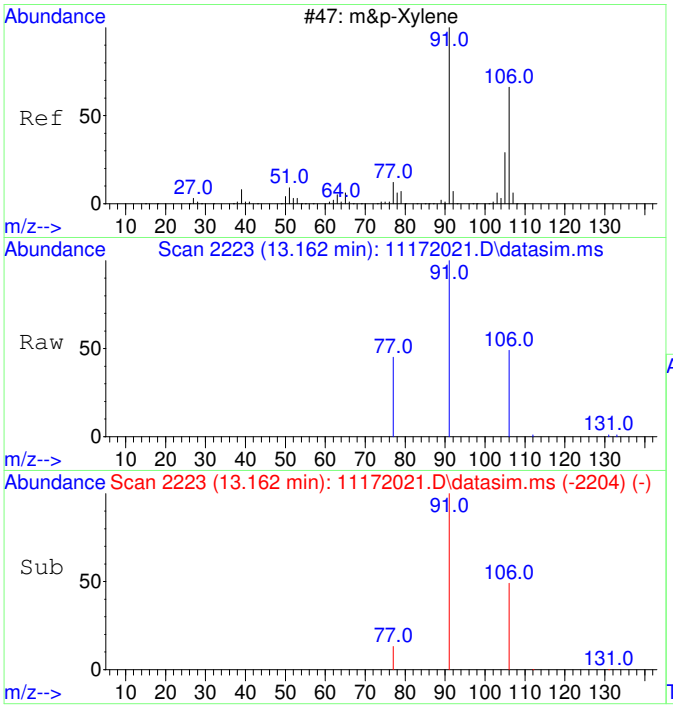


#18
Ethylbenzene
Concen: 55.19 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 9135

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	22.8	0.0	38.2

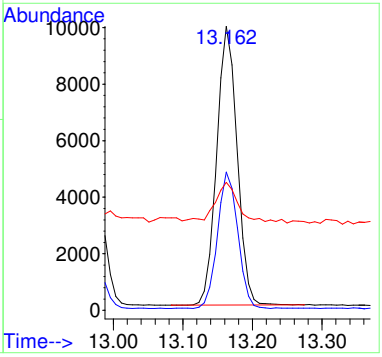


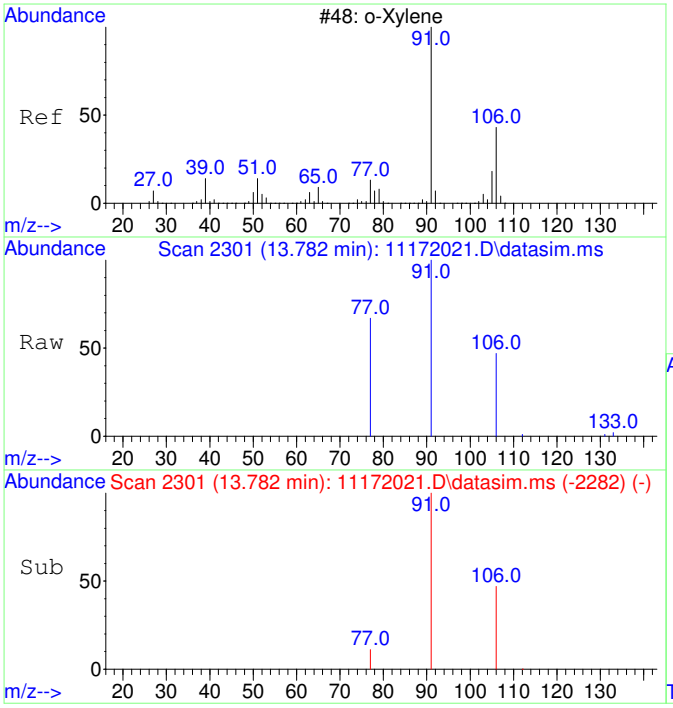


#19
m&p-Xylene
Concen: 155.59 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 20129

Ion	Ratio	Lower	Upper
91	100		
106	48.5	22.2	82.2
77	17.5	0.0	42.4

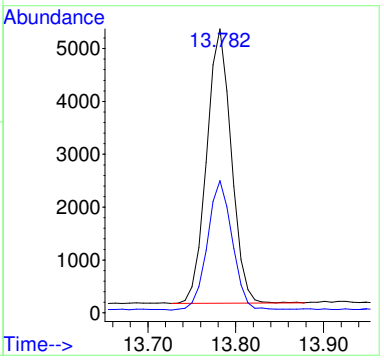


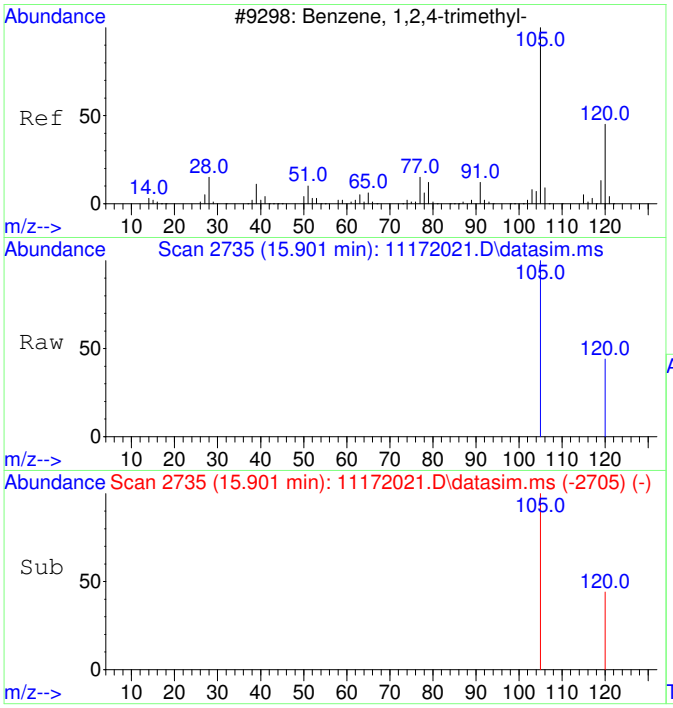


#20
o-Xylene
Concen: 73.10 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 10104

Ion	Ratio	Lower	Upper
91	100		
106	47.0	19.2	79.2

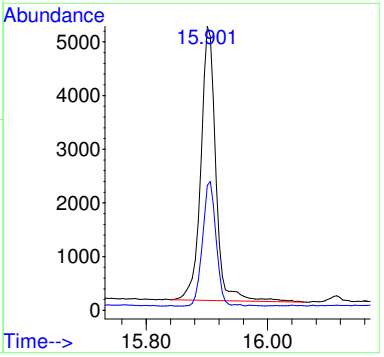


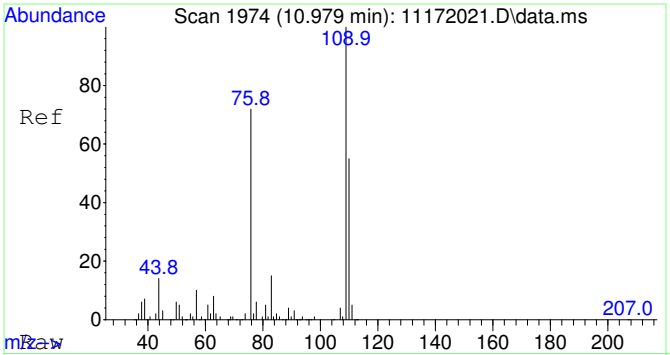


#23
1,2,4-Trimethylbenzene
Concen: 57.11 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:105 Resp: 8727

Ion	Ratio	Lower	Upper
105	100		
120	41.1	17.2	77.2

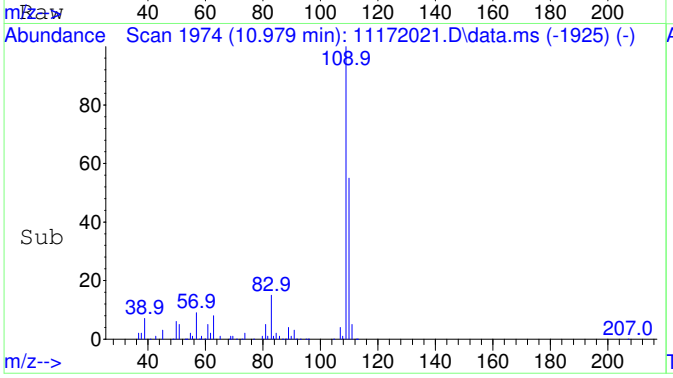


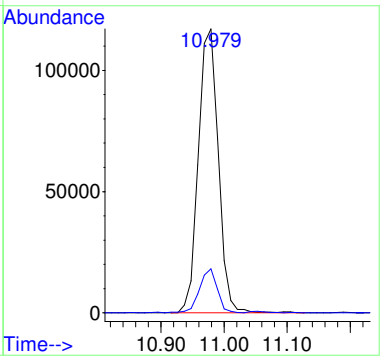


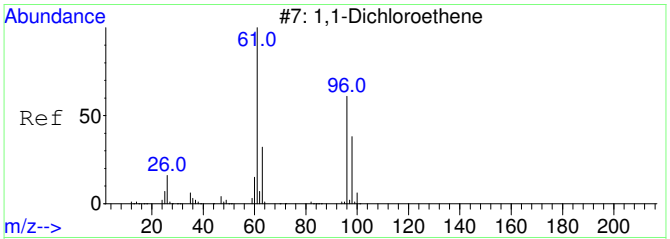
#25
2-Fluorotoluene SCAN
Concen: 4855.62 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:109 Resp: 257908

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	43.8



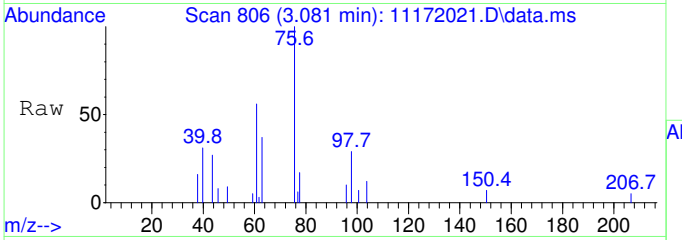


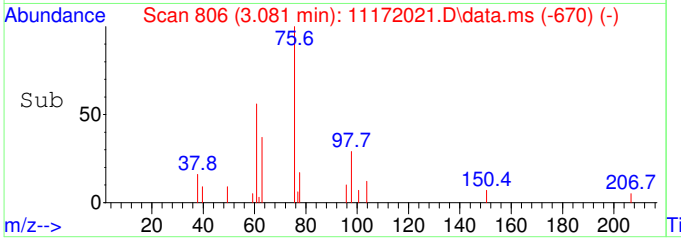


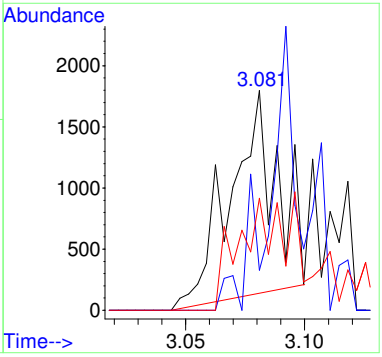
#26
1,1-Dichloroethene SCAN
Concen: 203.37 ug/L
RT: 3.081 min Scan# 806
Delta R.T. 0.004 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

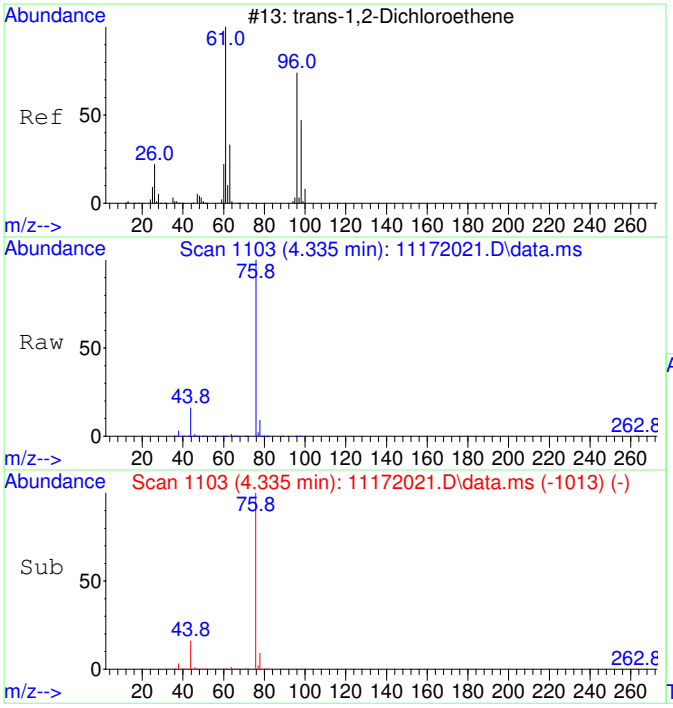
Tgt Ion: 61 Resp: 2294

Ion	Ratio	Lower	Upper
61	100		
96	50.9	33.1	93.1
98	46.3	11.2	71.2





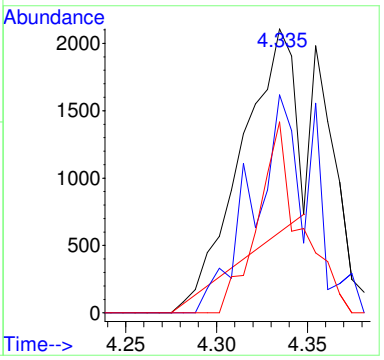


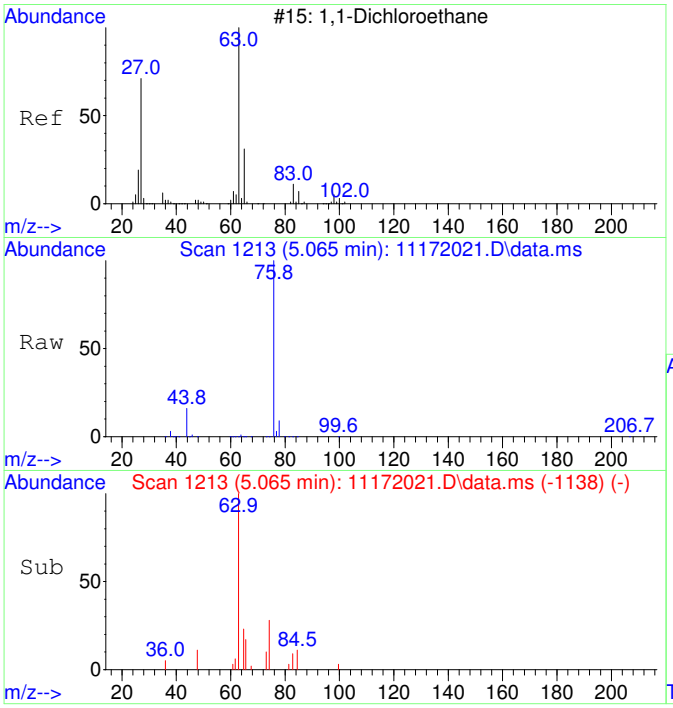


#27
trans-1,2-Dichloroethene SCAN
Concen: 212.20 ug/L
RT: 4.335 min Scan# 1103
Delta R.T. -0.013 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 61 Resp: 2962

Ion	Ratio	Lower	Upper
61	100		
96	123.0	49.0	109.0#
98	77.9	20.5	80.5

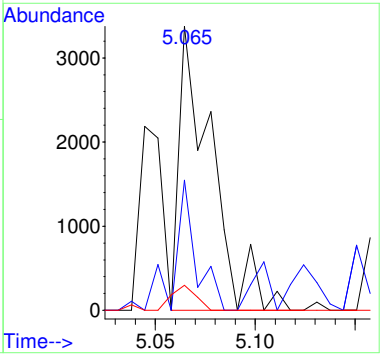


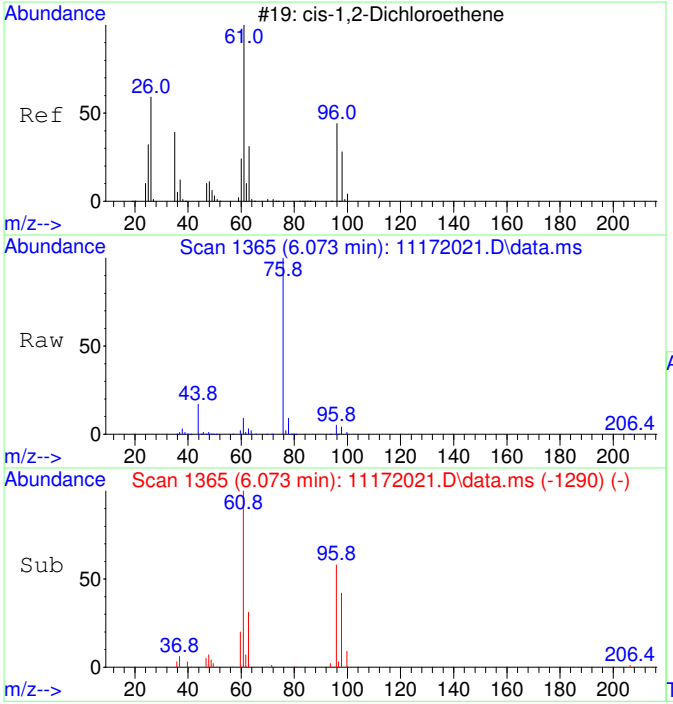


#28
1,1-Dichloroethane SCAN
Concen: 236.78 ug/L
RT: 5.065 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 63 Resp: 3825

Ion	Ratio	Lower	Upper
63	100		
65	31.2	1.3	61.3
83	7.3	0.0	45.9

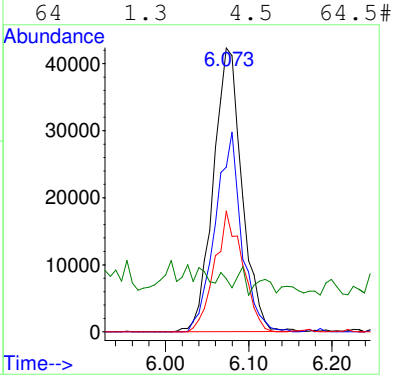


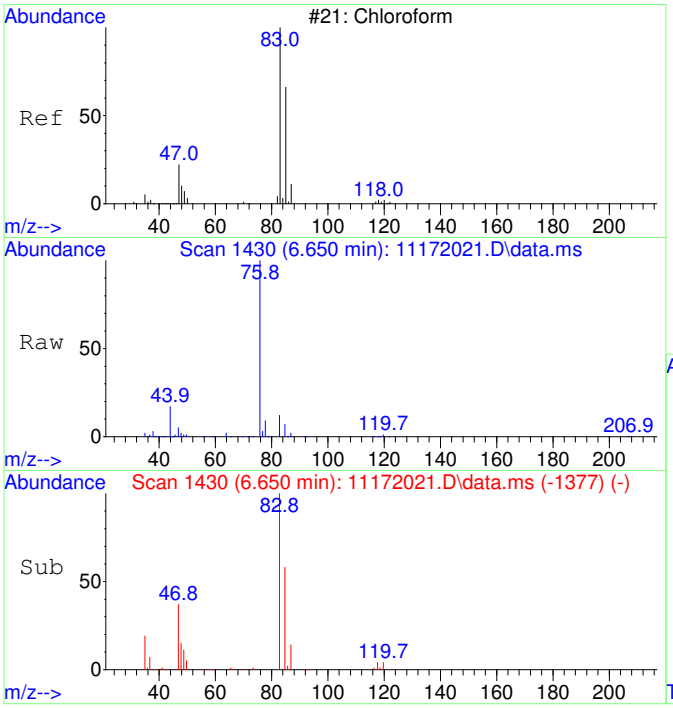


#29
cis-1,2-Dichloroethene SCAN
Concen: 5840.49 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 61 Resp: 101085

Ion	Ratio	Lower	Upper
61	100		
96	65.4	39.9	99.9
98	41.6	13.5	73.5
64	1.3	4.5	64.5#

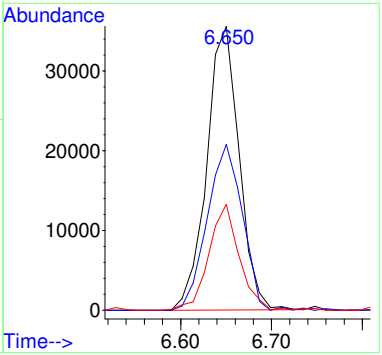


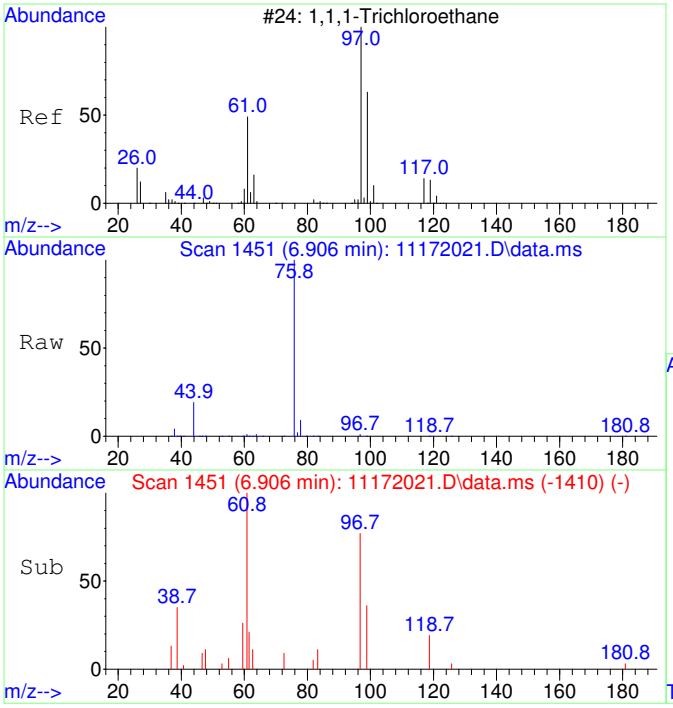


#30
Chloroform SCAN
Concen: 4701.76 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 83 Resp: 88264

Ion	Ratio	Lower	Upper
83	100		
85	63.8	34.6	94.6
47	34.9	0.0	53.4

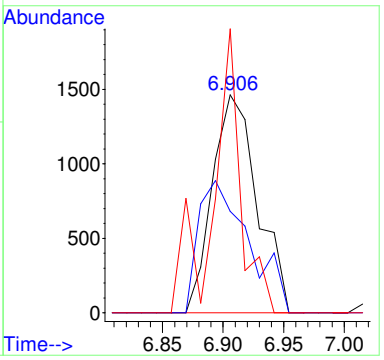


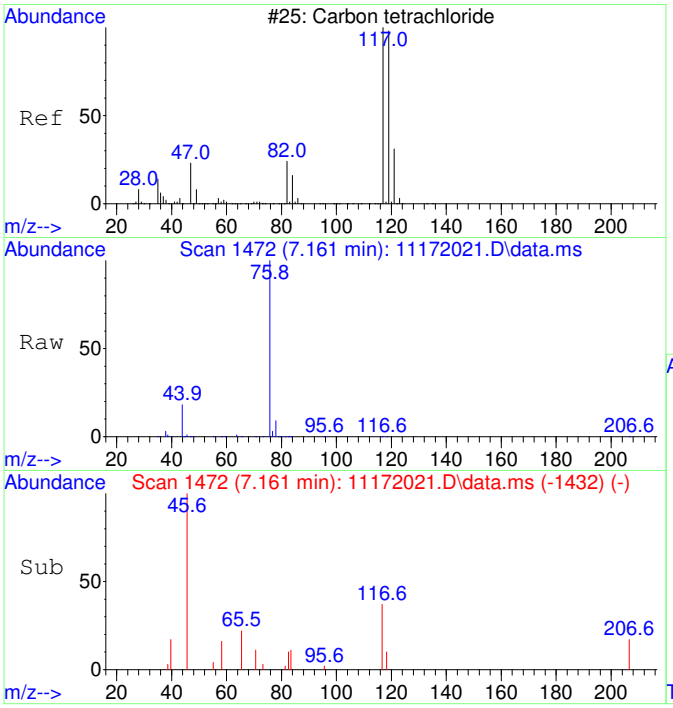


#31
1,1,1-Trichloroethane SCAN
Concen: 221.96 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 97 Resp: 3797

Ion	Ratio	Lower	Upper
97	100		
99	67.6	43.6	103.6
61	80.0	18.0	78.0#

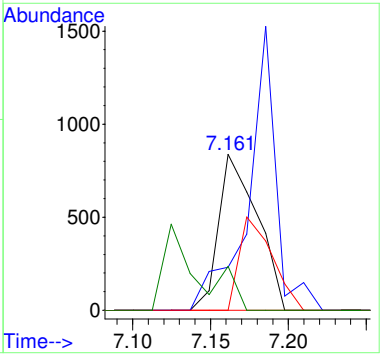


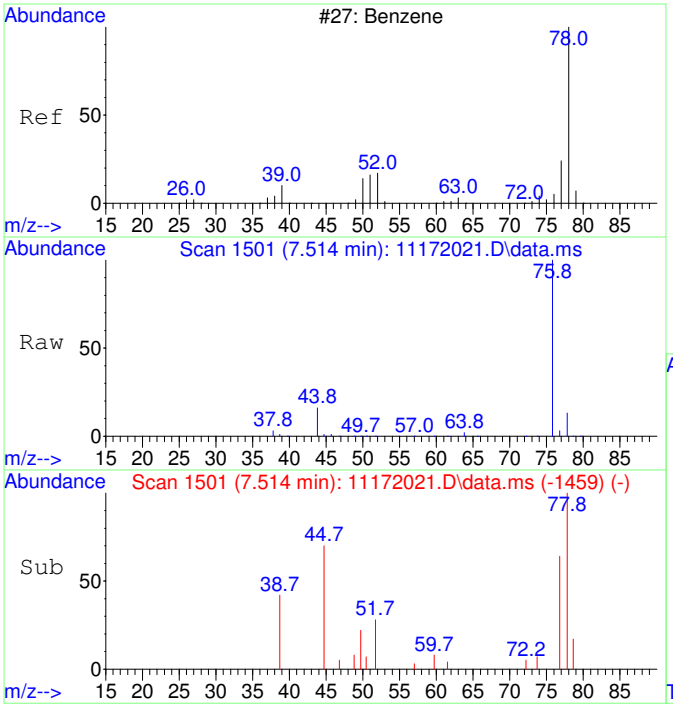


#32
Carbon tetrachloride SCAN
Concen: 81.48 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.012 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:117 Resp: 1454

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	51.0	0.0	58.8
82	0.0	0.0	59.2

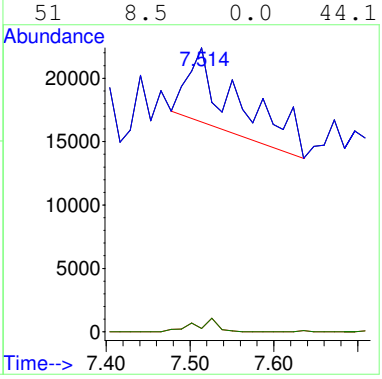


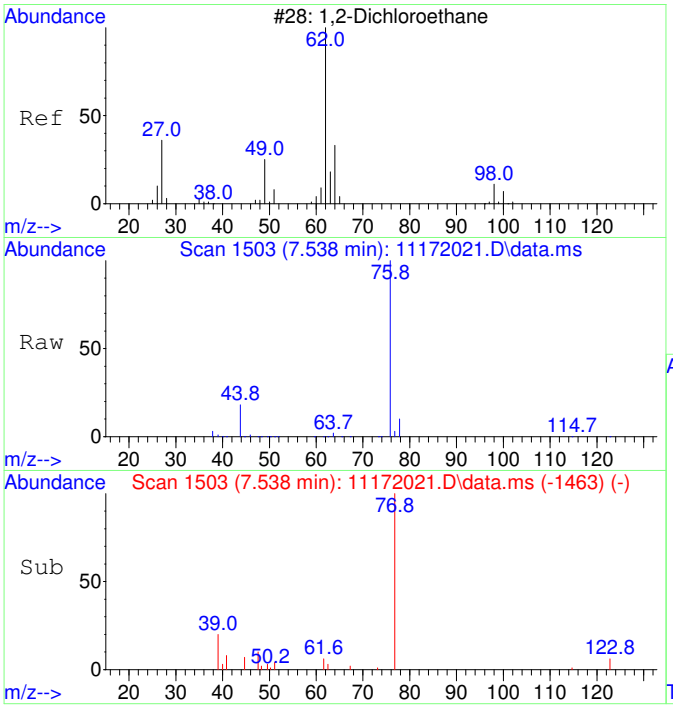


#33
Benzene SCAN
Concen: 492.97 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 78 Resp: 23220

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.5	0.0	47.9
51	8.5	0.0	44.1

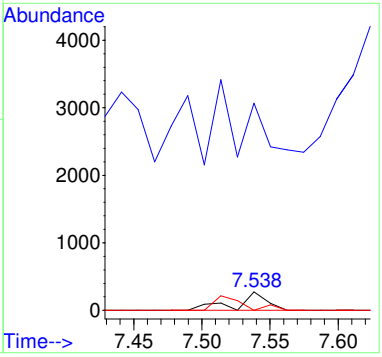


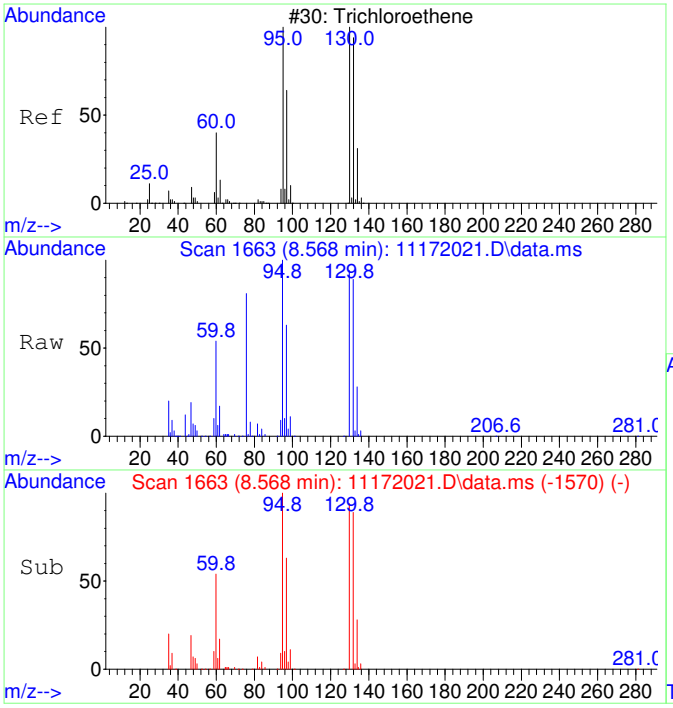


#34
1,2-Dichloroethane SCAN
Concen: 24.21 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 62 Resp: 421

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	0.0	3.9	63.9#

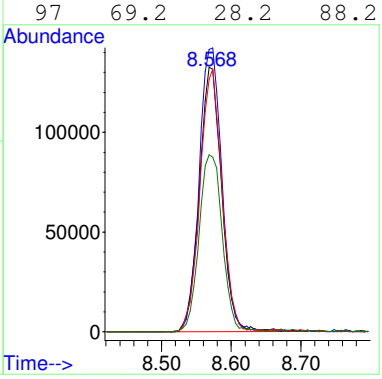


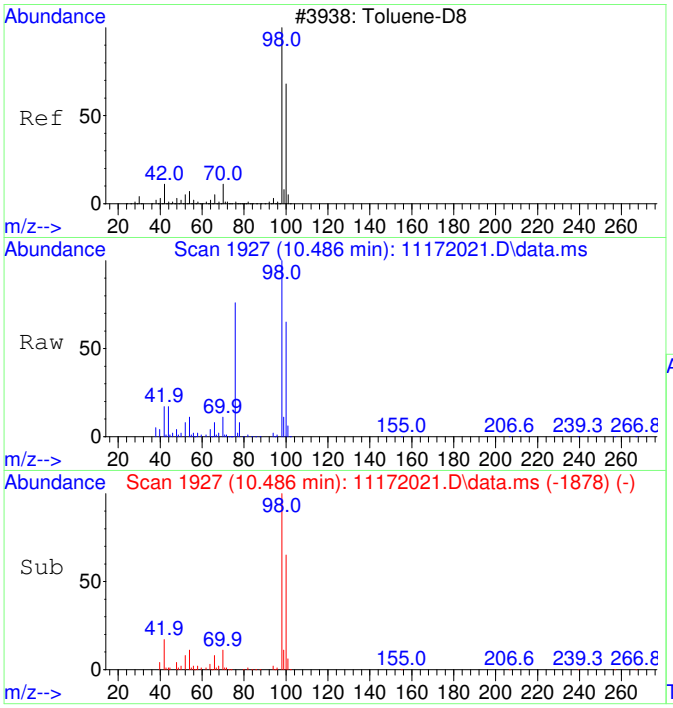


#35
Trichloroethene SCAN
Concen: 22845.61 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:130 Resp: 295713

Ion	Ratio	Lower	Upper
130	100		
95	107.7	60.5	120.5
132	96.9	59.6	119.6
97	69.2	28.2	88.2

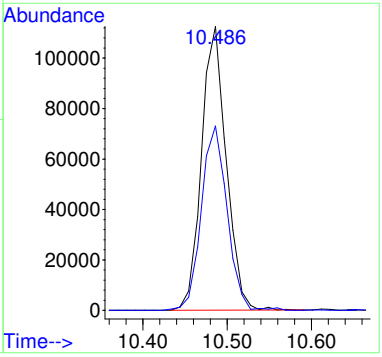


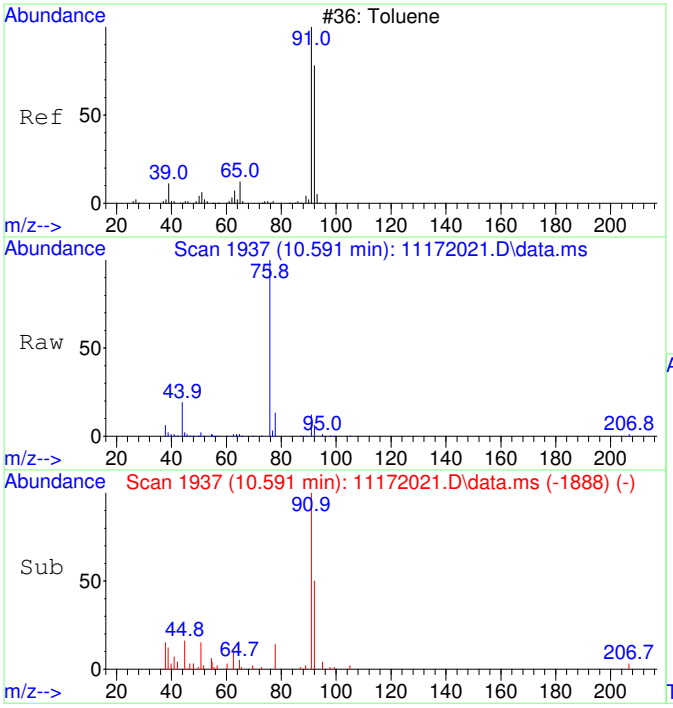


#36
Toluene-d8 SCAN
Concen: 4407.82 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 98 Resp: 228965

Ion	Ratio	Lower	Upper
98	100		
100	67.6	40.0	100.0

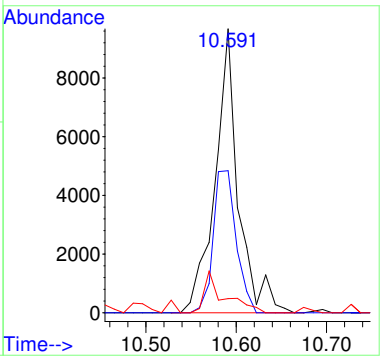


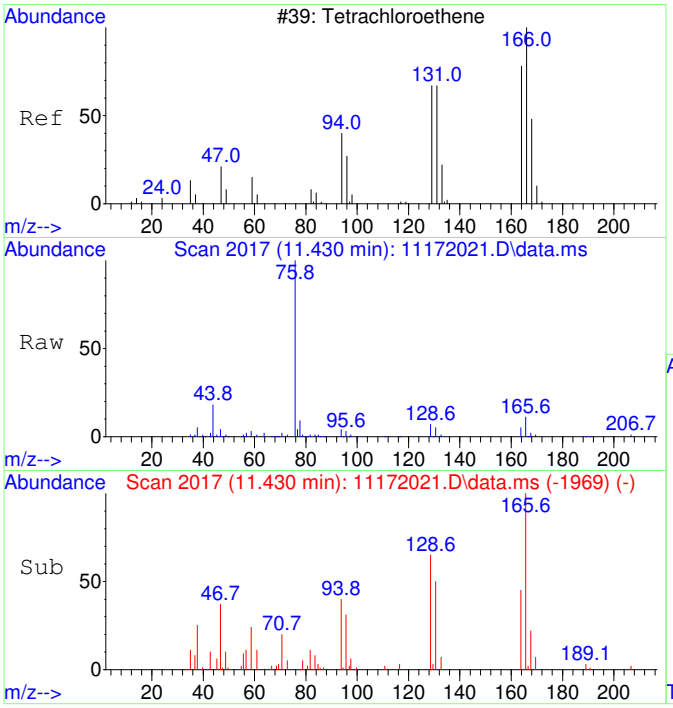


#37
Toluene SCAN
Concen: 260.48 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 17328

Ion	Ratio	Lower	Upper
91	100		
92	49.6	28.3	88.3
65	0.0	0.0	41.0

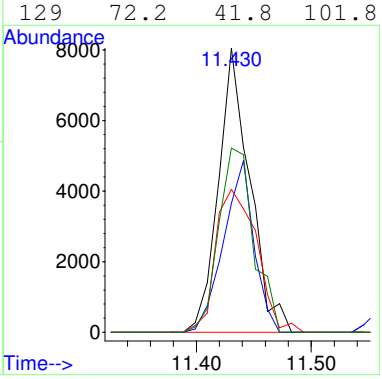


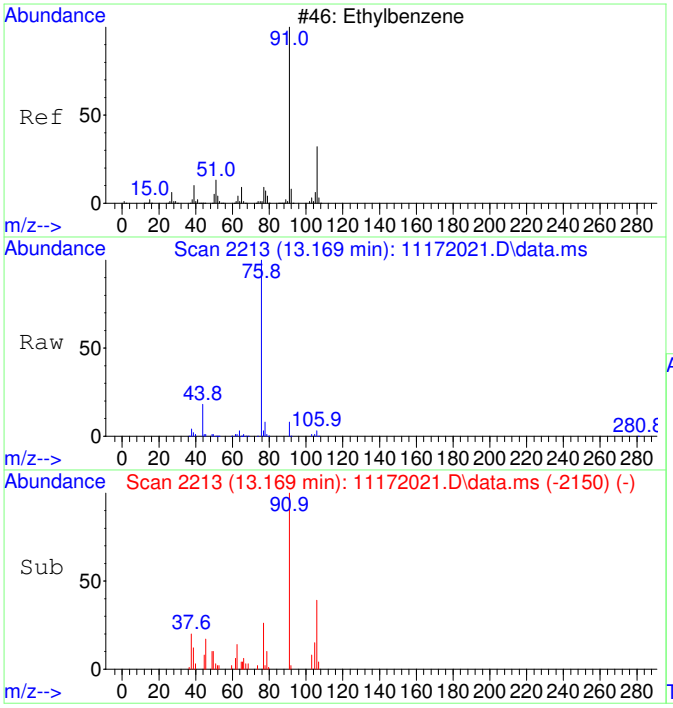


#39
Tetrachloroethene SCAN
Concen: 960.39 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:166 Resp: 15349

Ion	Ratio	Lower	Upper
166	100		
164	58.3	50.9	110.9
131	65.8	38.7	98.7
129	72.2	41.8	101.8

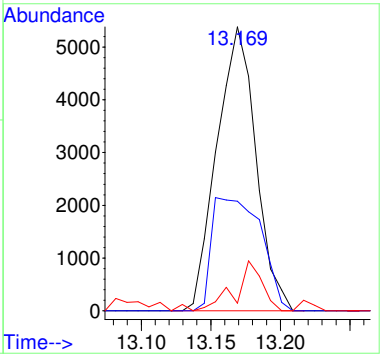


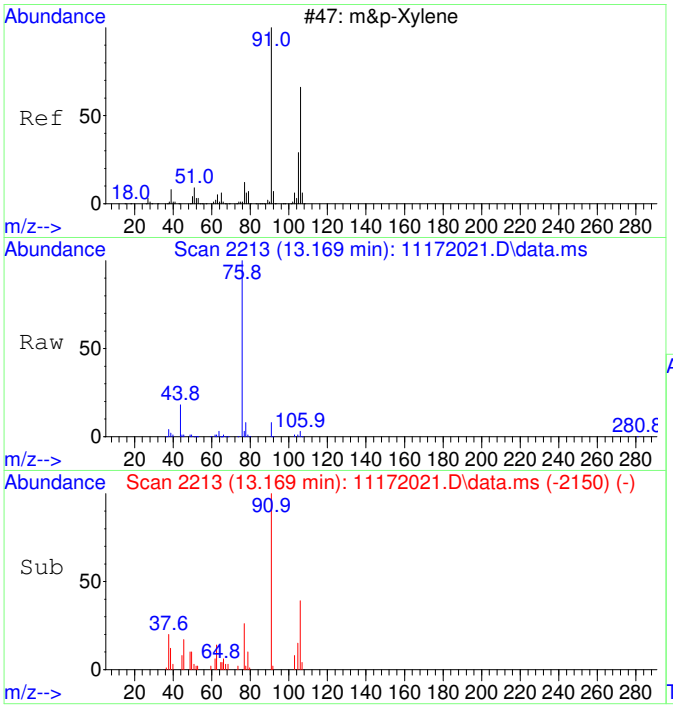


#42
Ethylbenzene SCAN
Concen: 86.81 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 10521

Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.1	83.1#
51	11.9	0.0	40.1

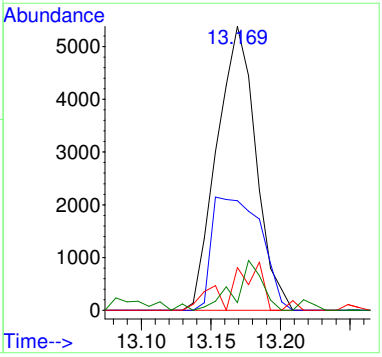


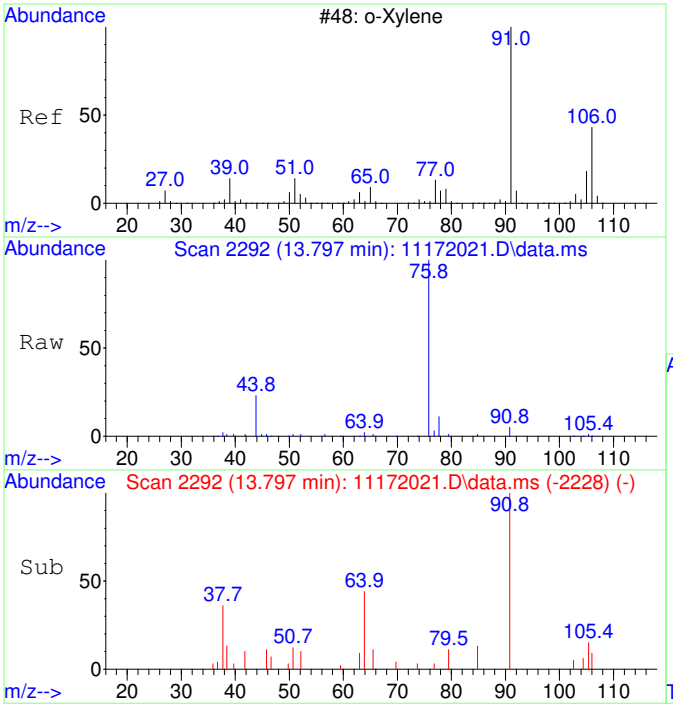


#43
m&p-Xylene SCAN
Concen: 86.81 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 10521

Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.1	83.1#
105	14.3	0.0	54.7
51	11.9	0.0	40.1

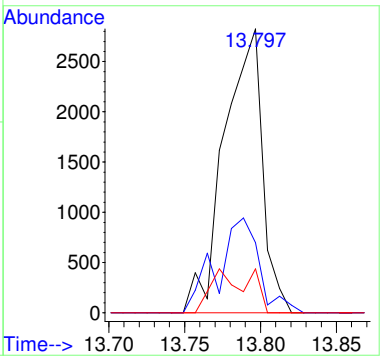


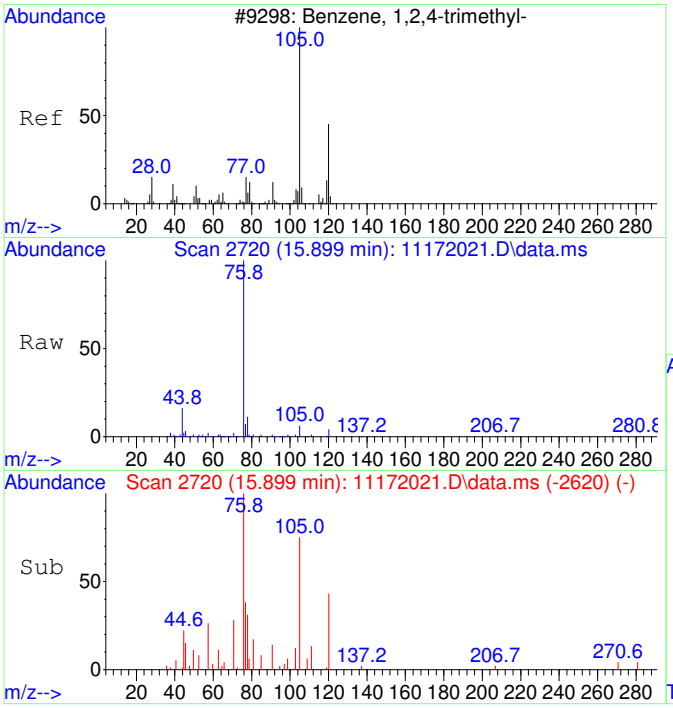


#44
o-Xylene SCAN
Concen: 76.26 ug/L
RT: 13.797 min Scan# 2292
Delta R.T. 0.008 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion: 91 Resp: 4947

Ion	Ratio	Lower	Upper
91	100		
106	36.7	18.0	78.0
105	0.0	0.0	56.6

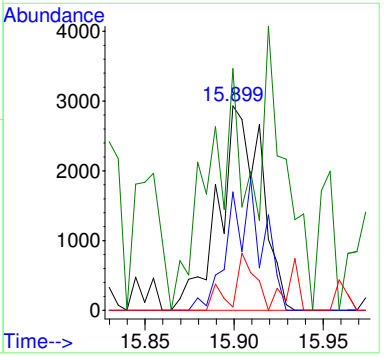




#47
1,2,4-Trimethylbenzene SCAN
Concen: 69.97 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.005 min
Lab File: 11172021.D
Acq: 17 Nov 2020 15:47

Tgt Ion:105 Resp: 4895

Ion	Ratio	Lower	Upper
105	100		
120	50.0	16.9	76.9
119	14.5	0.0	41.9
77	66.2	0.0	42.3#



2011017-11

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172022.D
Acq On : 17 Nov 2020 16:11
InstName : AG5975C
Operator : TD
Sample : 2011017-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 18 06:16:28 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

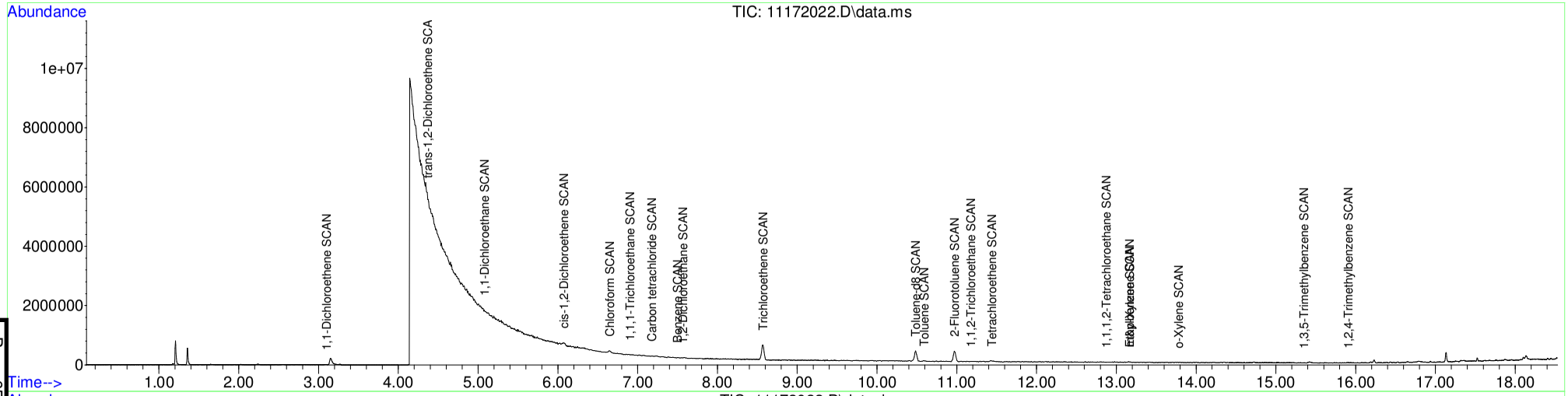
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	610092	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	521792	4368.94 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.38%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	5126	210.41 ug/L	79
3] trans-1,2-Dichloroethene	4.343	61	6075	215.83 ug/L	84
4] 1,1-Dichloroethane	5.072	63	6047	172.59 ug/L	84
5] cis-1,2-Dichloroethene	6.074	61	111080	3003.40 ug/L	99
6] Chloroform	6.639	83	131754	3480.47 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	4245	103.26 ug/L	99
8] Carbon tetrachloride	7.175	117	3702	95.67 ug/L	99
9] Benzene	7.503	78	18533	178.79 ug/L	76
10] 1,2-Dichloroethane	7.539	62	869	23.48 ug/L #	42
11] Trichloroethene	8.569	130	396150	12693.02 ug/L	94
13] Toluene	10.582	91	32105	210.85 ug/L	98
15] Tetrachloroethene	11.432	166	18897	428.84 ug/L	99
18] Ethylbenzene	12.972	91	10047	54.21 ug/L	94
19] m&p-Xylene	13.162	91	22244	153.56 ug/L	95
20] o-Xylene	13.782	91	8754	56.57 ug/L	98
23] 1,2,4-Trimethylbenzene	15.901	105	8966	52.40 ug/L	91
25) 2-Fluorotoluene SCAN	10.969	109	295982	4976.77 ug/L	99
26) 1,1-Dichloroethene SCAN	3.103	61	305	24.15 ug/L	92
27) trans-1,2-Dichloroethe...	4.361	61	3334	213.32 ug/L #	73
28) 1,1-Dichloroethane SCAN	5.078	63	3227	178.41 ug/L	82
29) cis-1,2-Dichloroethene...	6.073	61	60119	3102.25 ug/L	86
30) Chloroform SCAN	6.650	83	67176	3195.90 ug/L	90
31) 1,1,1-Trichloroethane ...	6.906	97	1380	72.05 ug/L	69
32) Carbon tetrachloride SCAN	7.173	117	1991	99.65 ug/L #	22
33) Benzene SCAN	7.502	78	7856	148.96 ug/L	96
34) 1,2-Dichloroethane SCAN	7.562	62	457	23.47 ug/L #	1
35) Trichloroethene SCAN	8.568	130	173473	11969.24 ug/L	80
36) Toluene-d8 SCAN	10.486	98	258858	4450.60 ug/L	96
37) Toluene SCAN	10.591	91	14380	193.06 ug/L #	73
38) 1,1,2-Trichloroethane ...	11.179	97	790	47.25 ug/L #	13
39) Tetrachloroethene SCAN	11.441	166	8854	494.78 ug/L	91
41) 1,1,1,2-Tetrachloroeth...	12.875	131	382	20.28 ug/L #	10
42) Ethylbenzene SCAN	13.161	91	10367	76.40 ug/L	84
43) m&p-Xylene SCAN	13.161	91	10367	76.40 ug/L	88
44) o-Xylene SCAN	13.781	91	5555	76.48 ug/L	87
46) 1,3,5-Trimethylbenzene...	15.348	105	2015	26.32 ug/L	63
47) 1,2,4-Trimethylbenzene...	15.904	105	4863	62.08 ug/L #	49

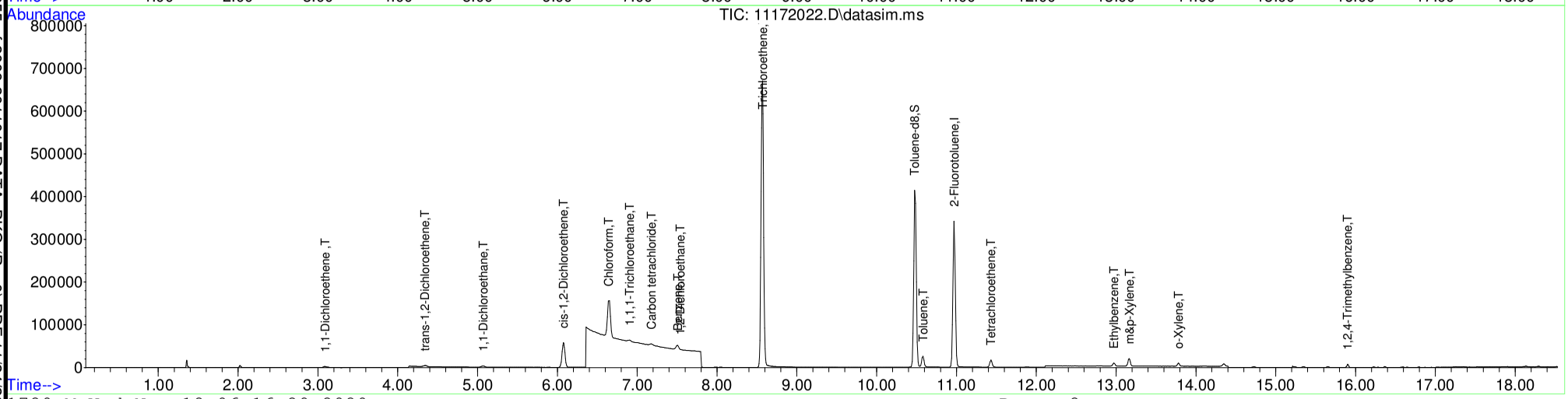
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172022.D
Acq On : 17 Nov 2020 16:11
InstName : AG5975C
Operator : TD
Sample : 2011017-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 18 06:16:28 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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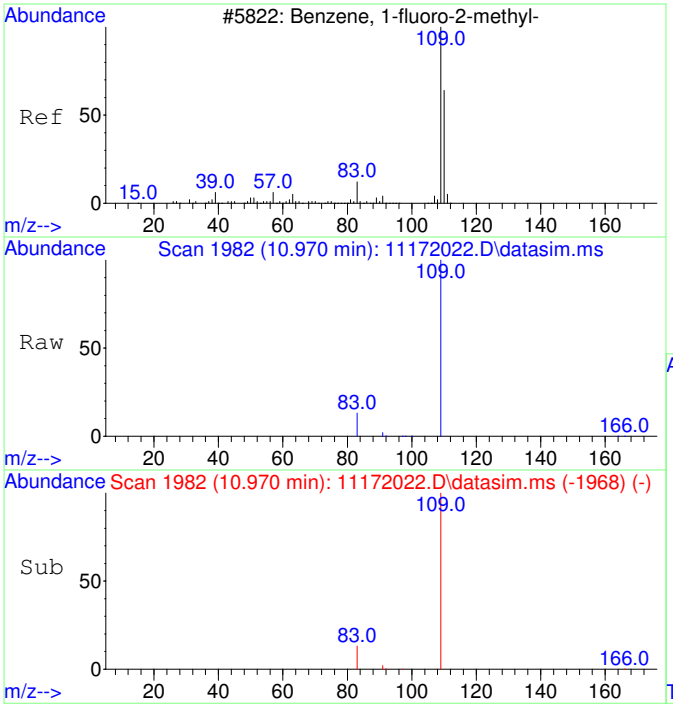
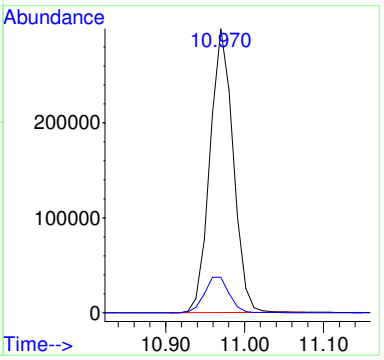
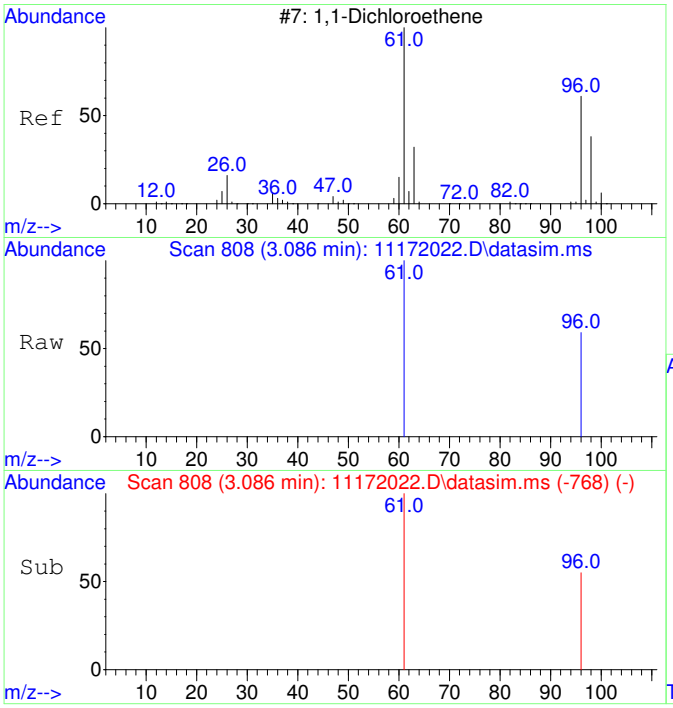


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:109 Resp: 610092

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

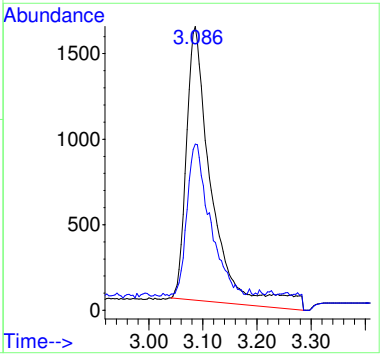




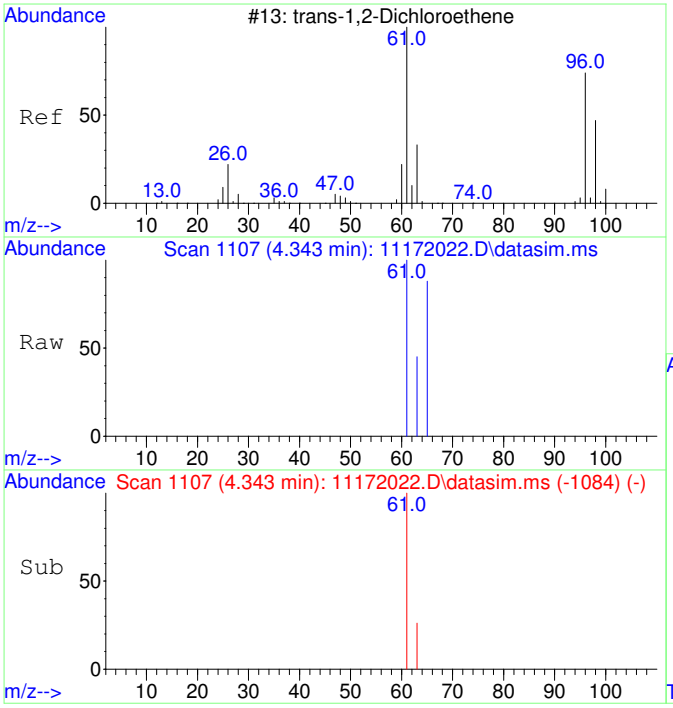
#2
1,1-Dichloroethene
Concen: 210.41 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 61 Resp: 5126

Ion	Ratio	Lower	Upper
61	100		
96	50.7	37.2	97.2



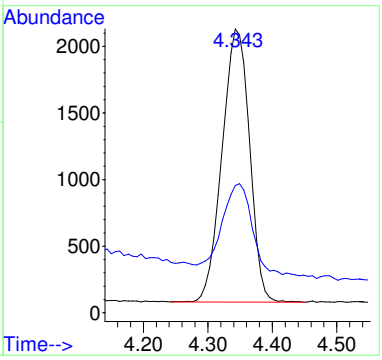
Before MI:
IMPROPER
BASELINE

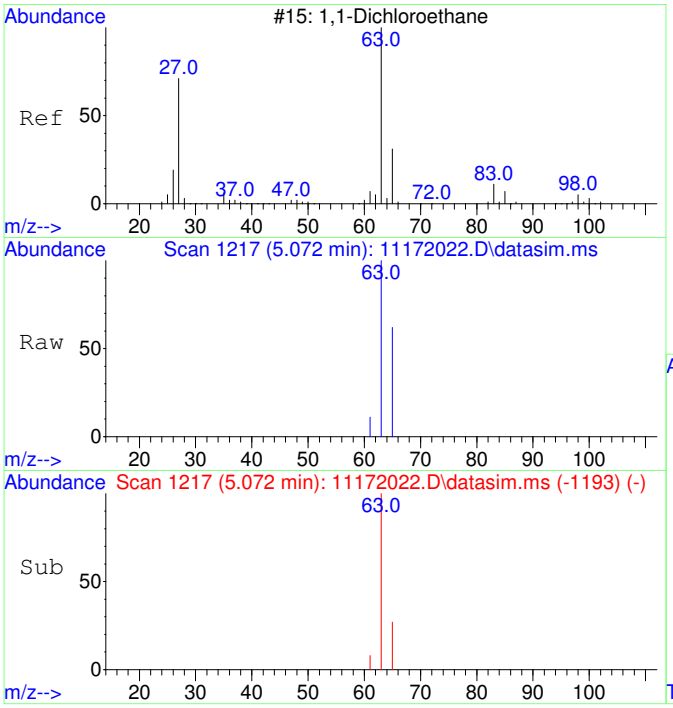


#3
trans-1,2-Dichloroethene
Concen: 215.83 ug/L
RT: 4.343 min Scan# 1107
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 61 Resp: 6075

Ion	Ratio	Lower	Upper
61	100		
63	41.6	2.4	62.4

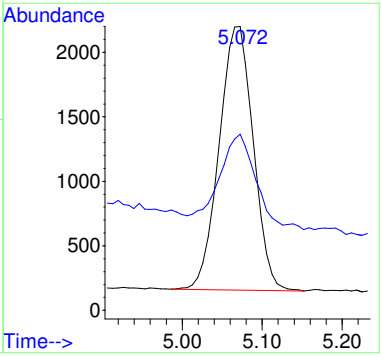


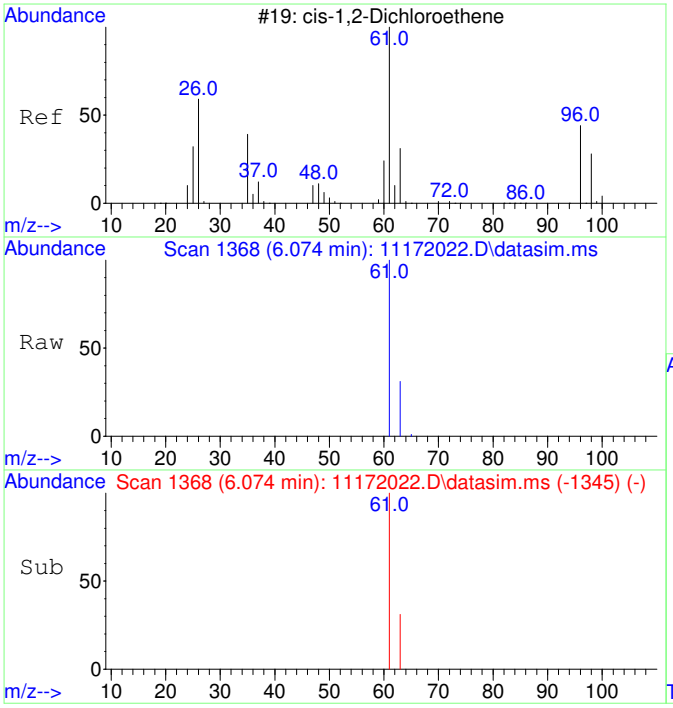


#4
1,1-Dichloroethane
Concen: 172.59 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.006 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 63 Resp: 6047

Ion	Ratio	Lower	Upper
63	100		
65	40.6	1.8	61.8

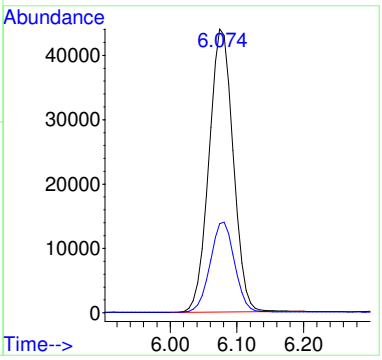


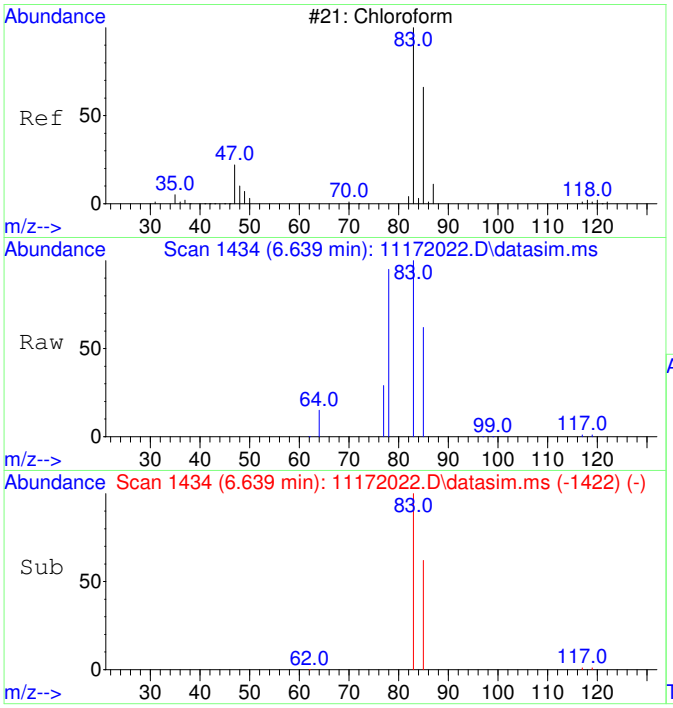


#5
cis-1,2-Dichloroethene
Concen: 3003.40 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 61 Resp: 111080

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

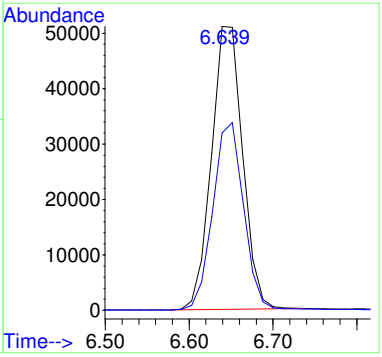


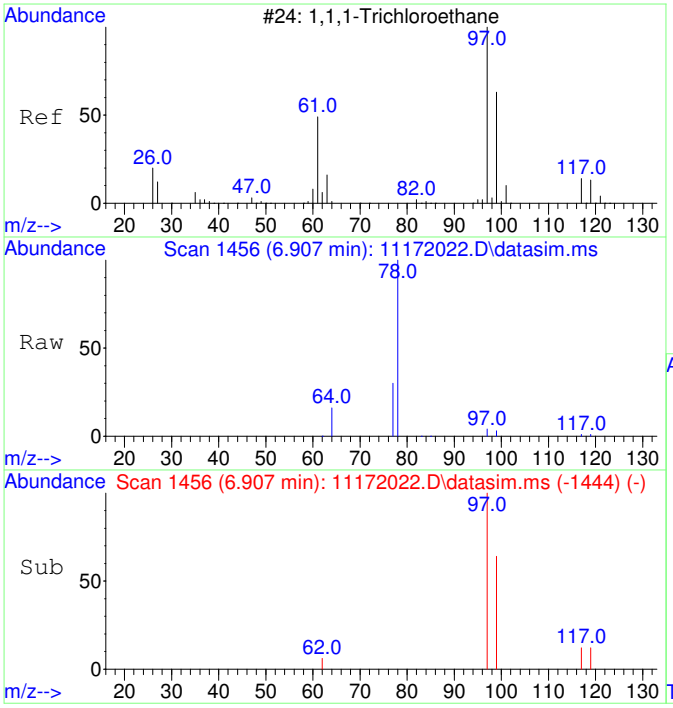


#6
Chloroform
Concen: 3480.47 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 83 Resp: 131754

Ion	Ratio	Lower	Upper
83	100		
85	64.7	35.1	95.1

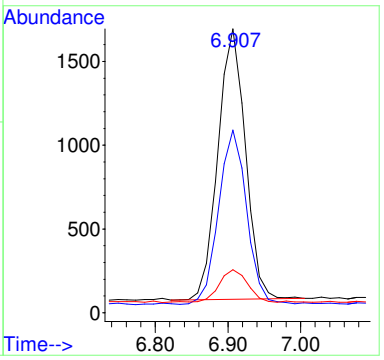


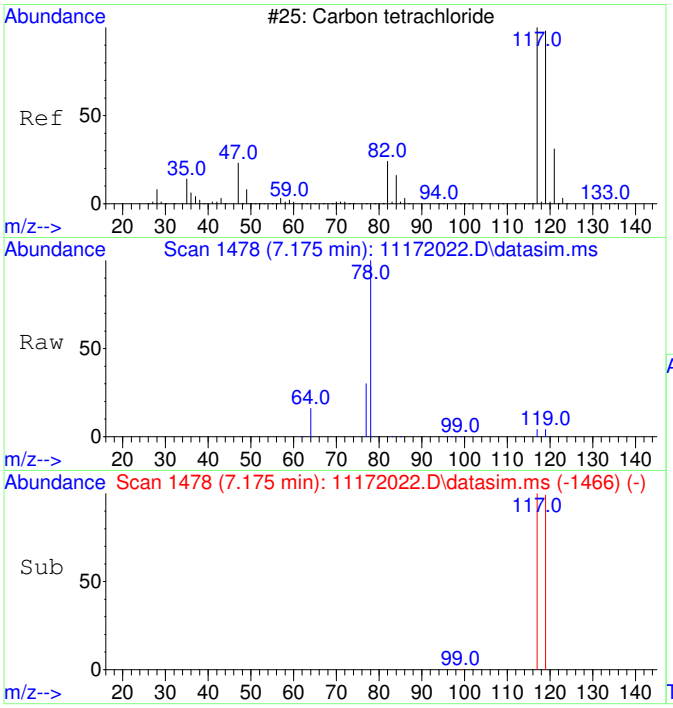


#7
1,1,1-Trichloroethane
Concen: 103.26 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 97 Resp: 4245

Ion	Ratio	Lower	Upper
97	100		
99	65.4	34.6	94.6
117	12.2	0.0	43.2

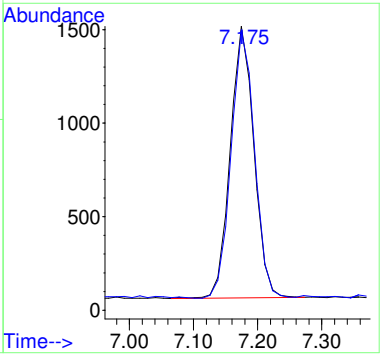


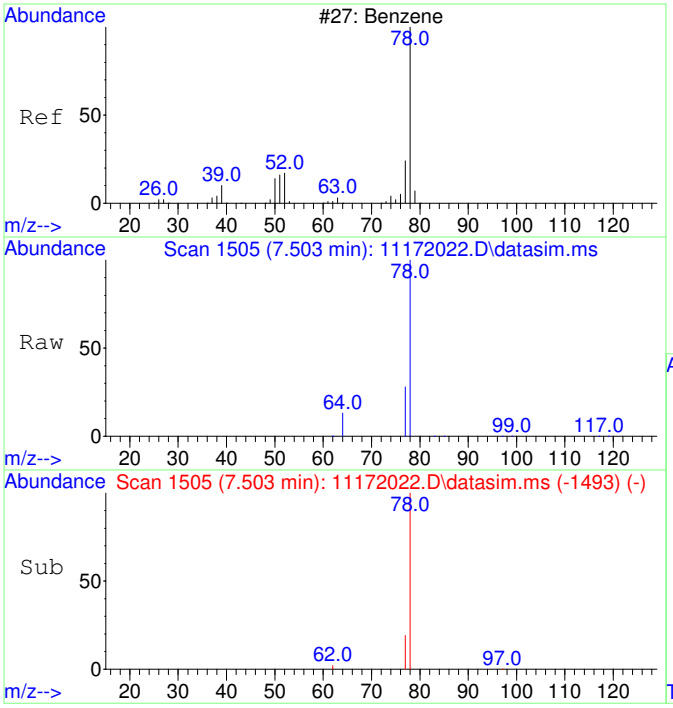


#8
Carbon tetrachloride
Concen: 95.67 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:117 Resp: 3702

Ion	Ratio	Lower	Upper
117	100		
119	97.5	66.4	126.4

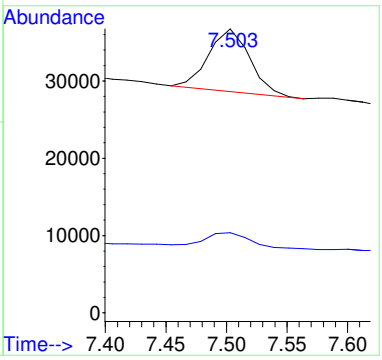


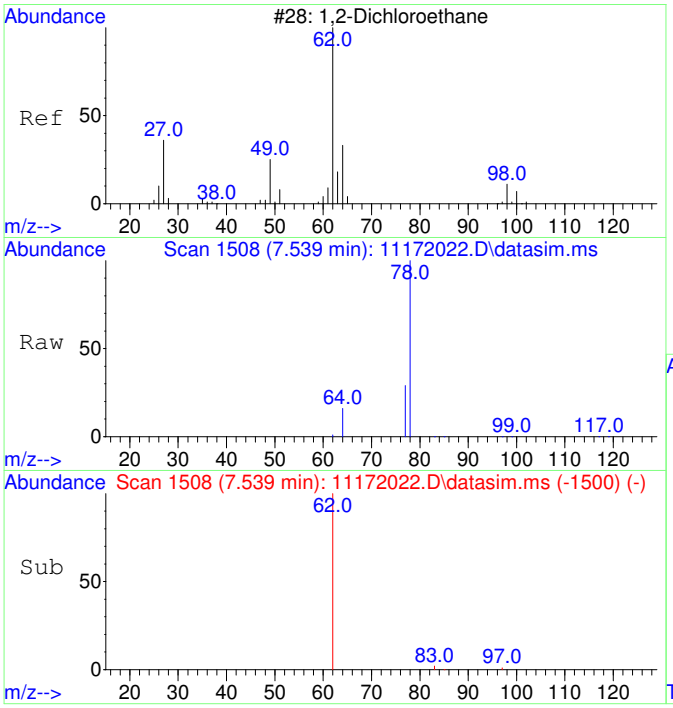


#9
Benzene
Concen: 178.79 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 78 Resp: 18533

Ion	Ratio	Lower	Upper
78	100		
77	34.8	0.0	53.2

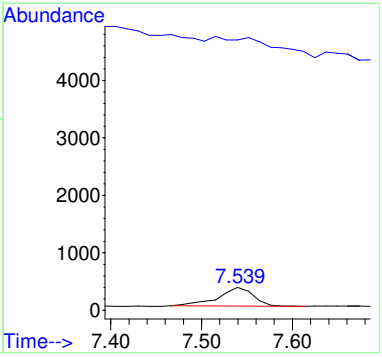


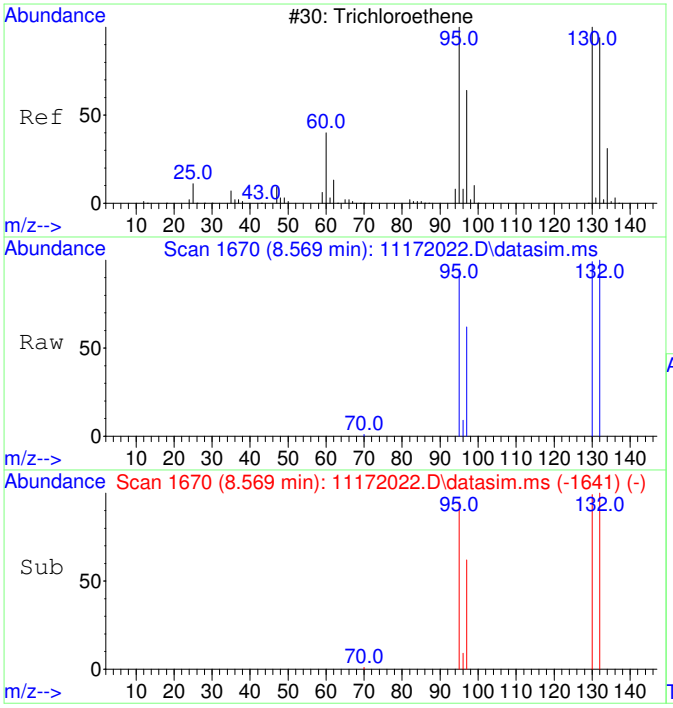


#10
1,2-Dichloroethane
Concen: 23.48 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 62 Resp: 869

Ion	Ratio	Lower	Upper
62	100		
64	0.0	2.3	62.3#

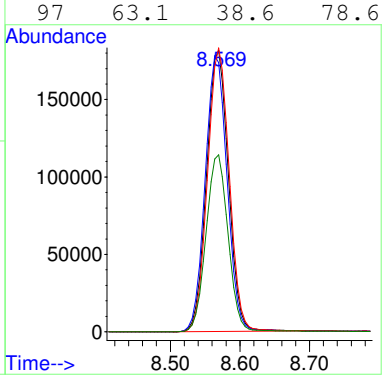


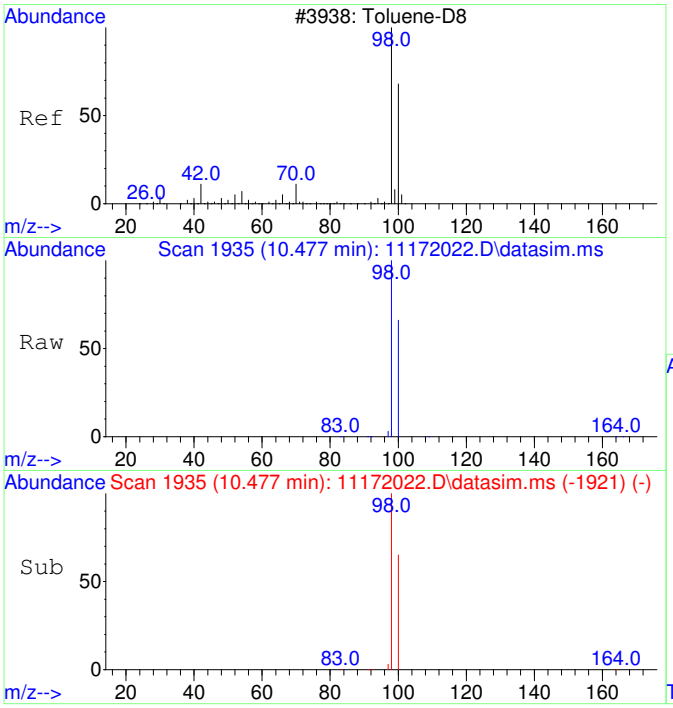


#11
Trichloroethene
Concen: 12693.02 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:130 Resp: 396150

Ion	Ratio	Lower	Upper
130	100		
95	98.3	60.7	120.7
132	99.9	76.0	116.0
97	63.1	38.6	78.6

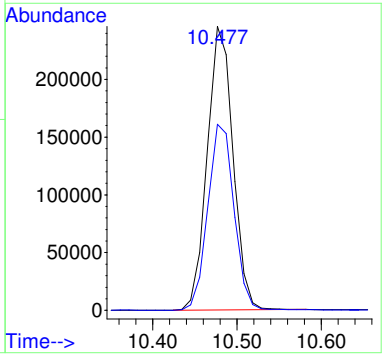


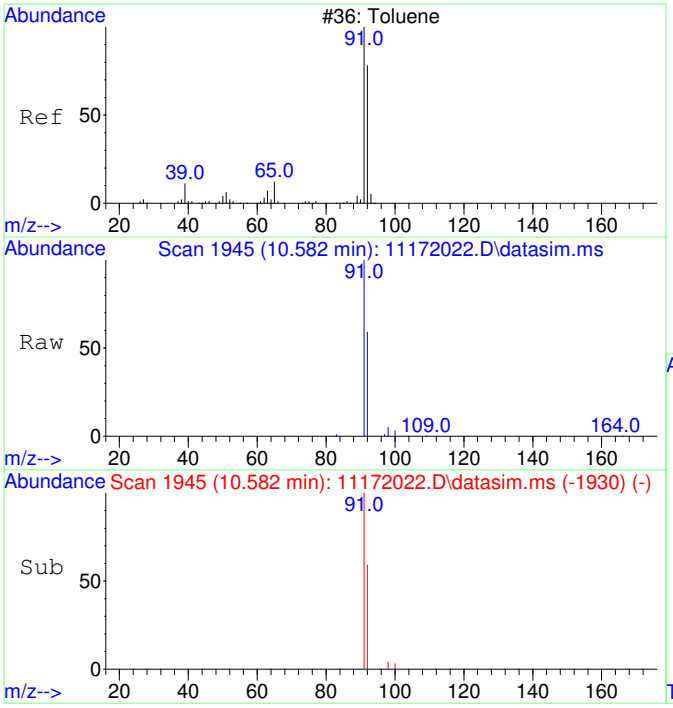


#12
Toluene-d8
Concen: 4368.94 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 98 Resp: 521792

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

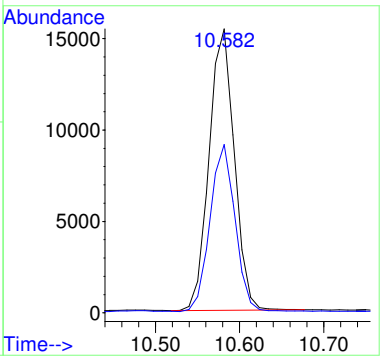


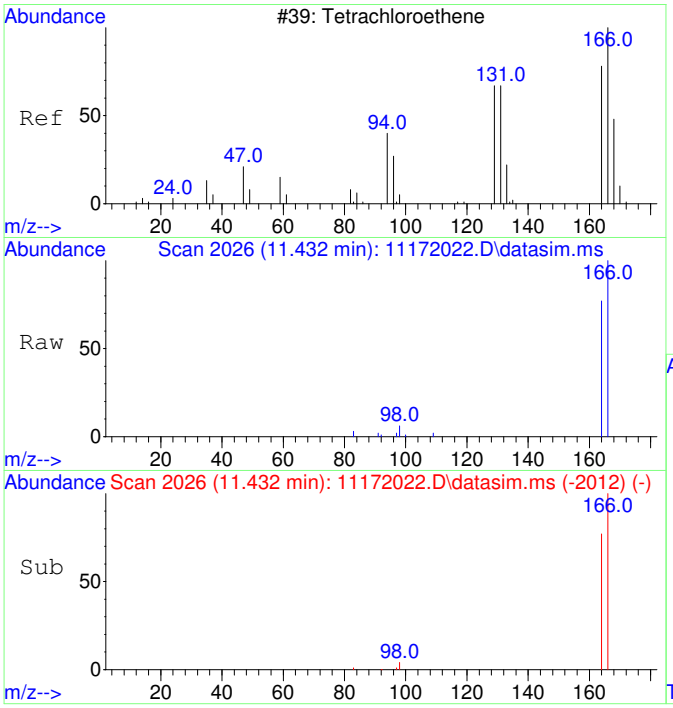


#13
Toluene
Concen: 210.85 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 32105

Ion	Ratio	Lower	Upper
91	100		
92	58.5	29.9	89.9

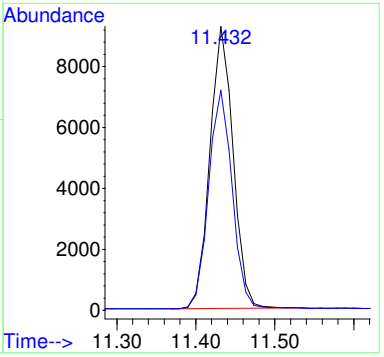


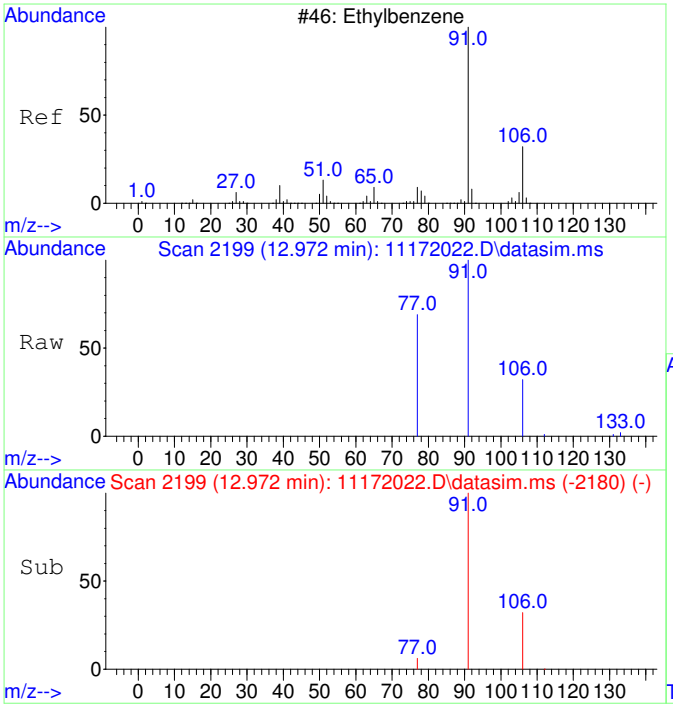


#15
Tetrachloroethene
Concen: 428.84 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:166 Resp: 18897

Ion	Ratio	Lower	Upper
166	100		
164	78.3	47.8	107.8

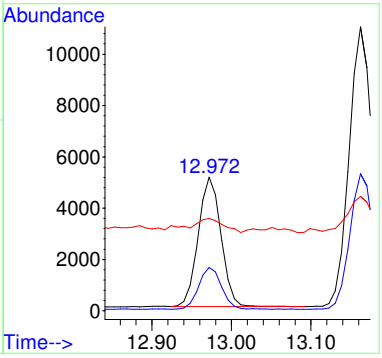


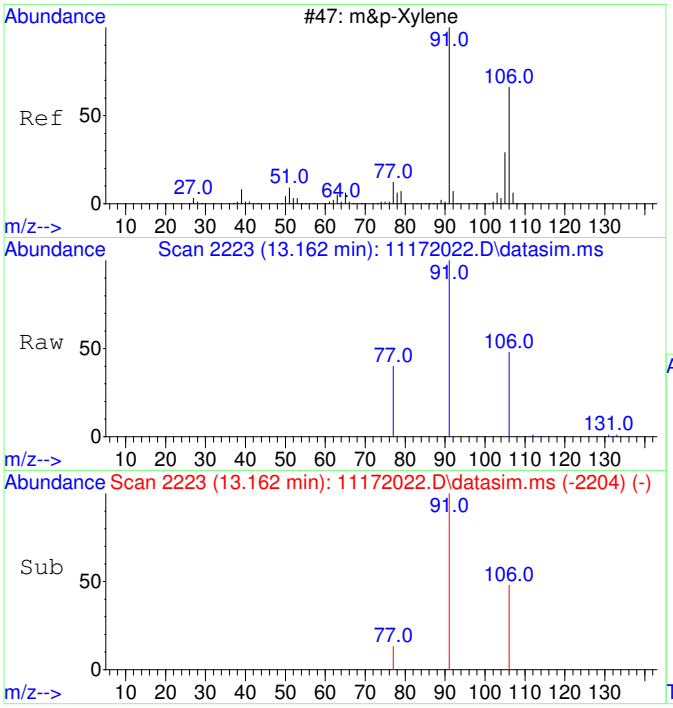


#18
Ethylbenzene
Concen: 54.21 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 10047

Ion	Ratio	Lower	Upper
91	100		
106	32.3	3.0	63.0
77	17.6	0.0	38.2

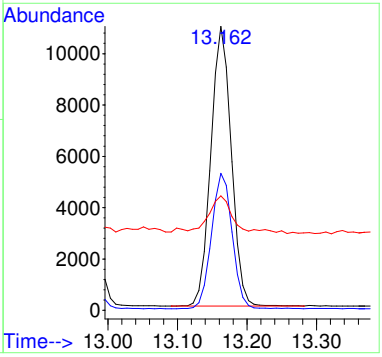


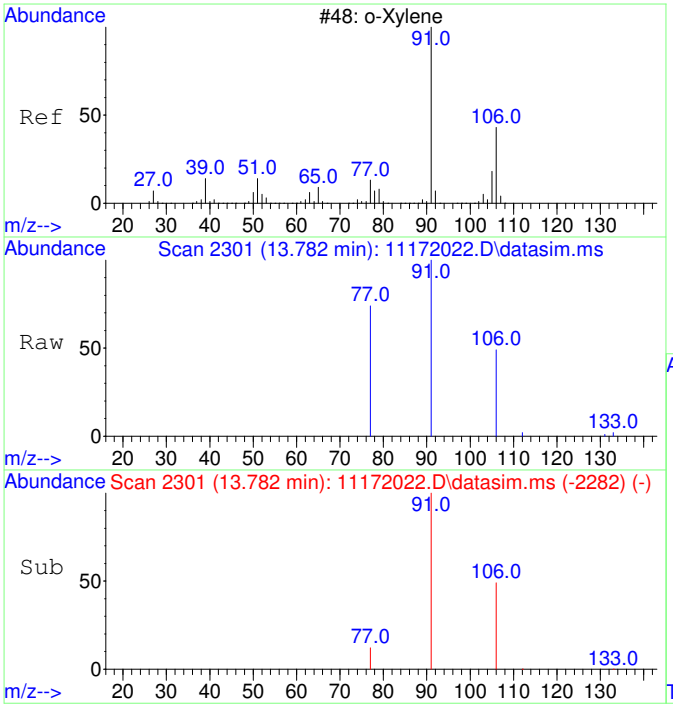


#19
m&p-Xylene
Concen: 153.56 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 22244

Ion	Ratio	Lower	Upper
91	100		
106	48.8	22.2	82.2
77	13.9	0.0	42.4

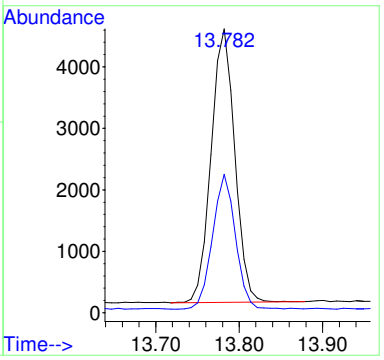


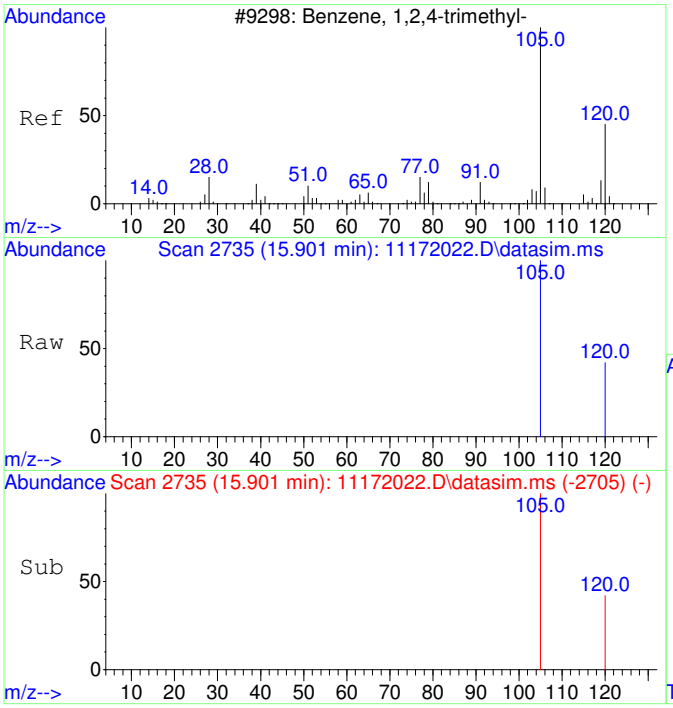


#20
o-Xylene
Concen: 56.57 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 8754

Ion	Ratio	Lower	Upper
91	100		
106	47.7	19.2	79.2

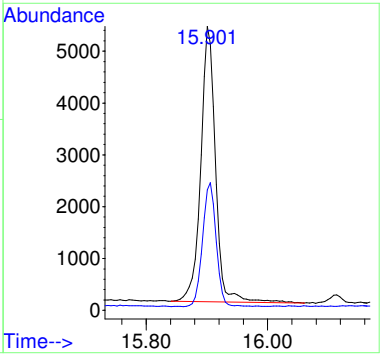


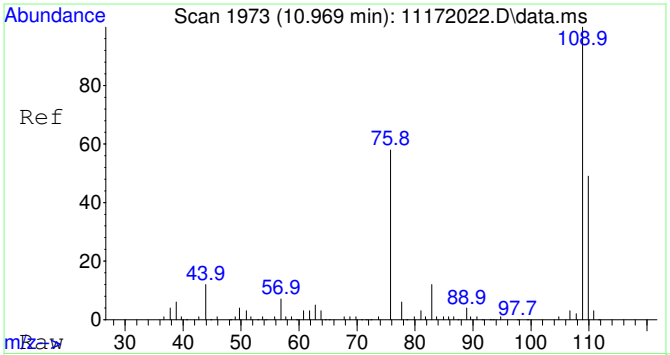


#23
1,2,4-Trimethylbenzene
Concen: 52.40 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:105 Resp: 8966

Ion	Ratio	Lower	Upper
105	100		
120	41.3	17.2	77.2

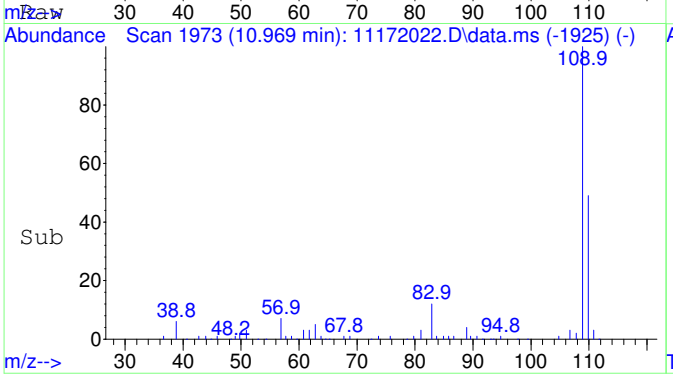


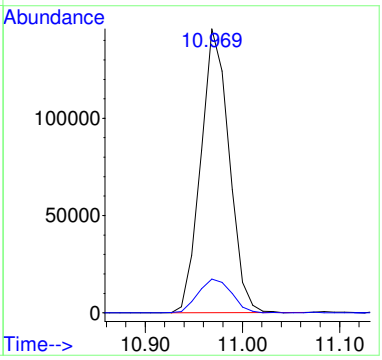


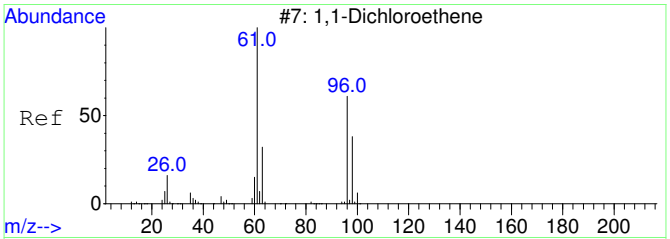
#25
2-Fluorotoluene SCAN
Concen: 4976.77 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:109 Resp: 295982

Ion	Ratio	Lower	Upper
109	100		
83	14.1	0.0	43.8



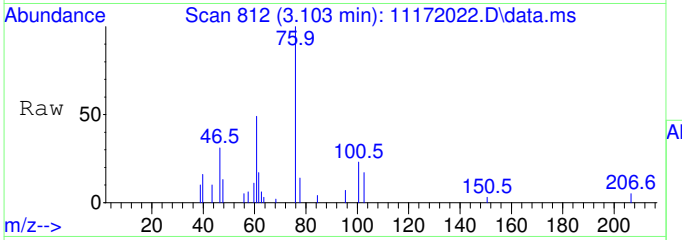


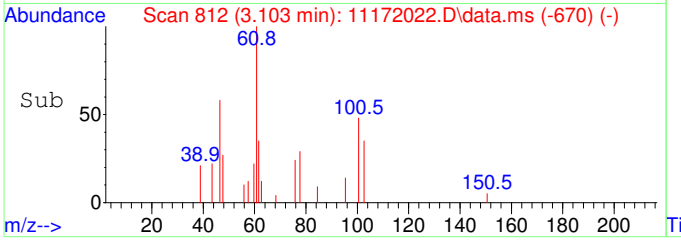


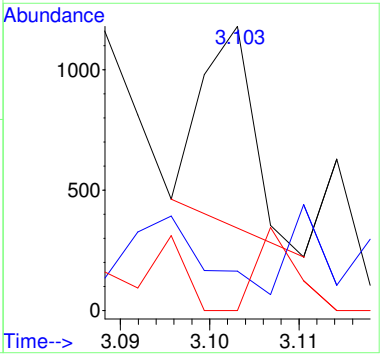
#26
1,1-Dichloroethene SCAN
Concen: 24.15 ug/L
RT: 3.103 min Scan# 812
Delta R.T. 0.026 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

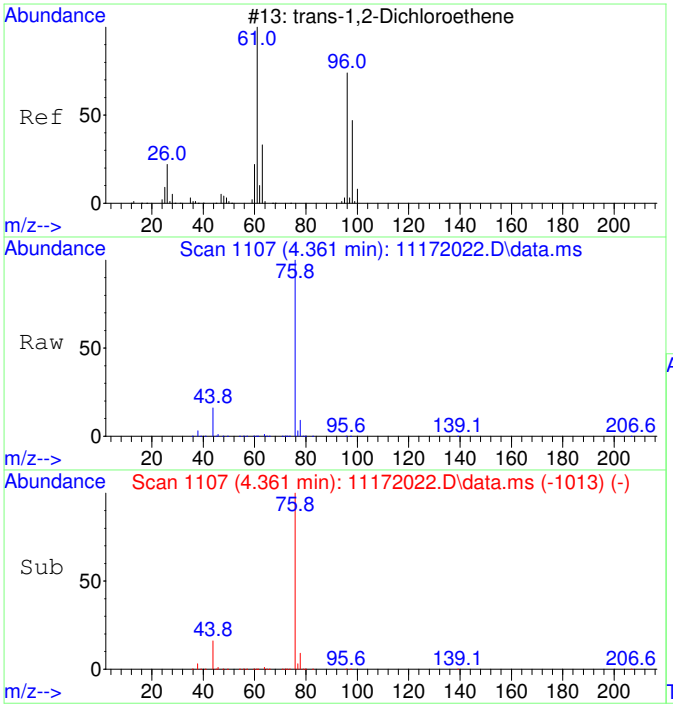
Tgt Ion: 61 Resp: 305

Ion	Ratio	Lower	Upper
61	100		
96	67.9	33.1	93.1
98	34.1	11.2	71.2





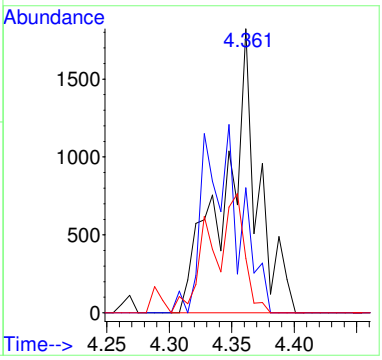


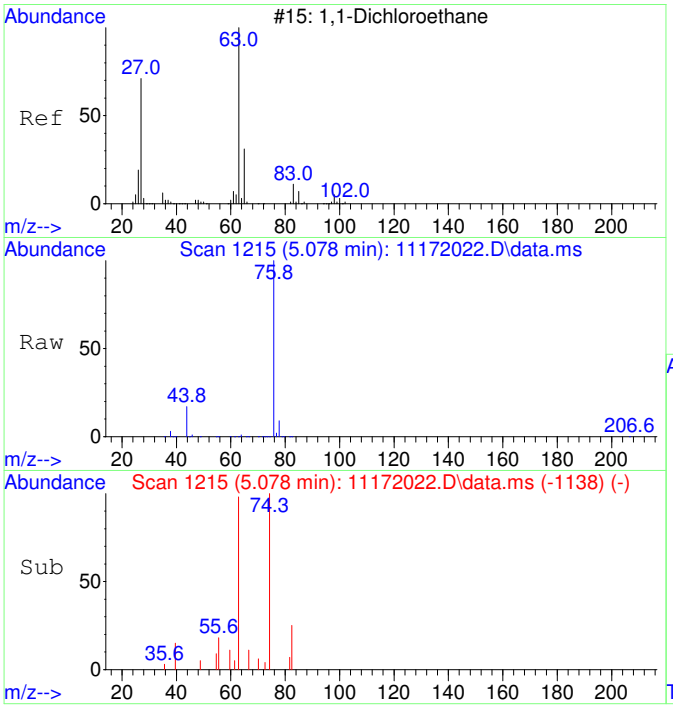


#27
trans-1,2-Dichloroethene SCAN
Concen: 213.32 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. 0.013 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 61 Resp: 3334

Ion	Ratio	Lower	Upper
61	100		
96	69.9	49.0	109.0
98	14.4	20.5	80.5#

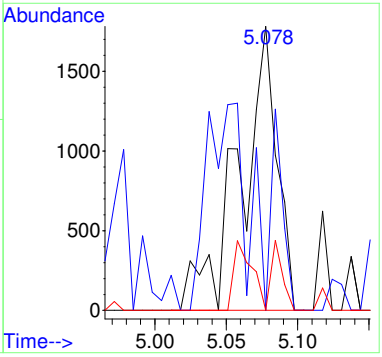


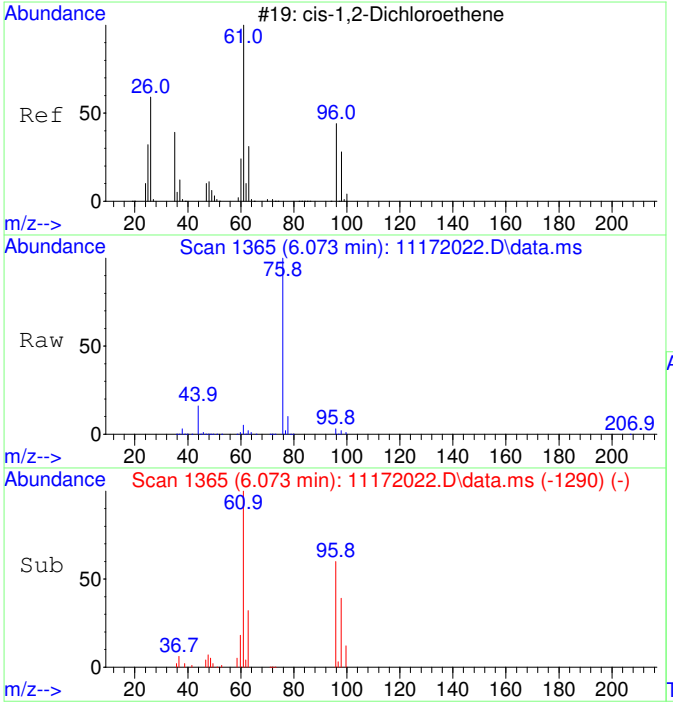


#28
1,1-Dichloroethane SCAN
Concen: 178.41 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 63 Resp: 3227

Ion	Ratio	Lower	Upper
63	100		
65	21.9	1.3	61.3
83	7.4	0.0	45.9

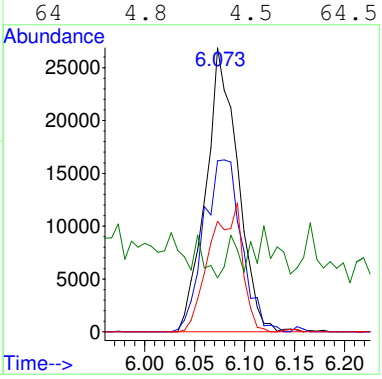


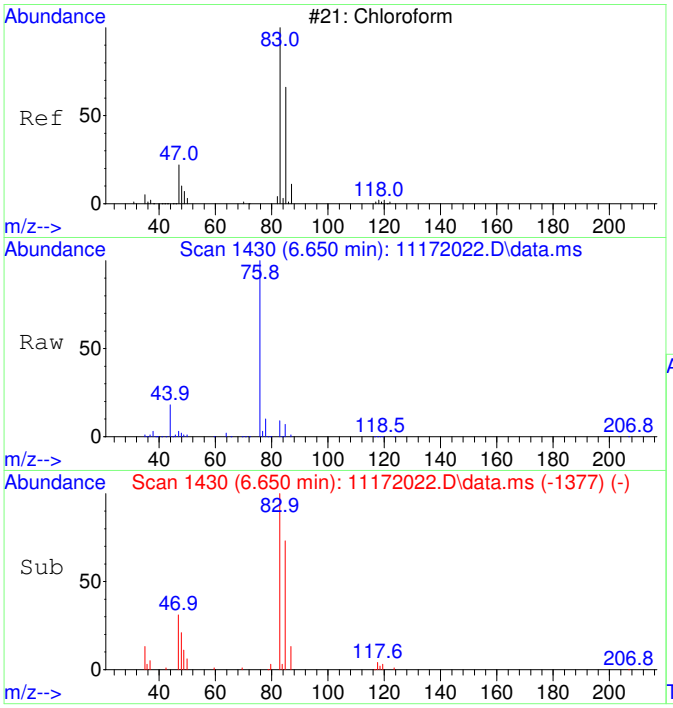


#29
cis-1,2-Dichloroethene SCAN
Concen: 3102.25 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 61 Resp: 60119

Ion	Ratio	Lower	Upper
61	100		
96	71.2	39.9	99.9
98	45.4	13.5	73.5
64	4.8	4.5	64.5

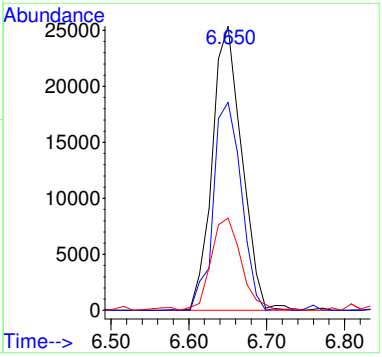


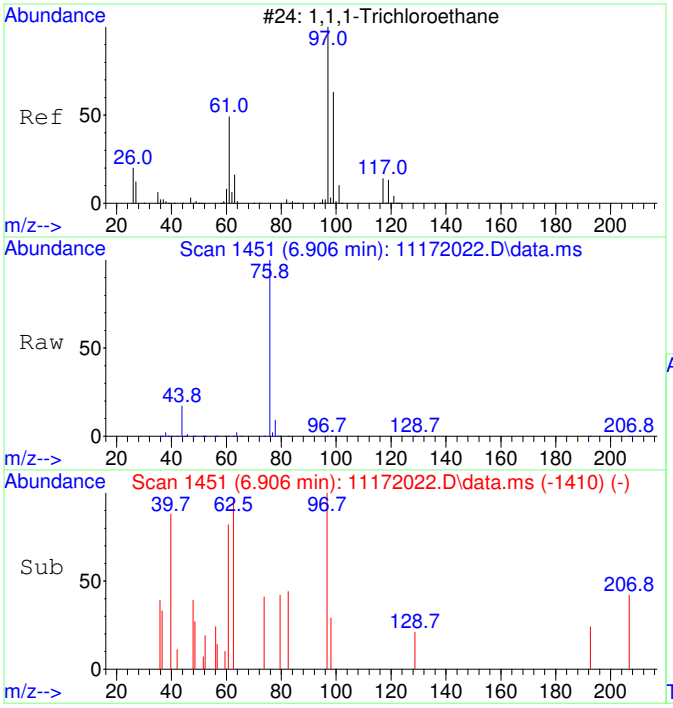


#30
Chloroform SCAN
Concen: 3195.90 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 83 Resp: 67176

Ion	Ratio	Lower	Upper
83	100		
85	69.5	34.6	94.6
47	33.1	0.0	53.4

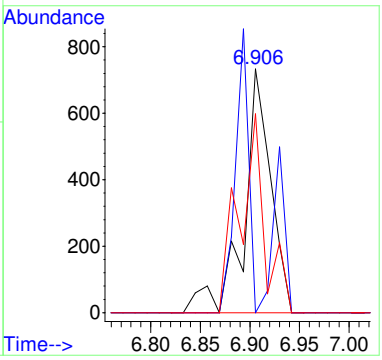


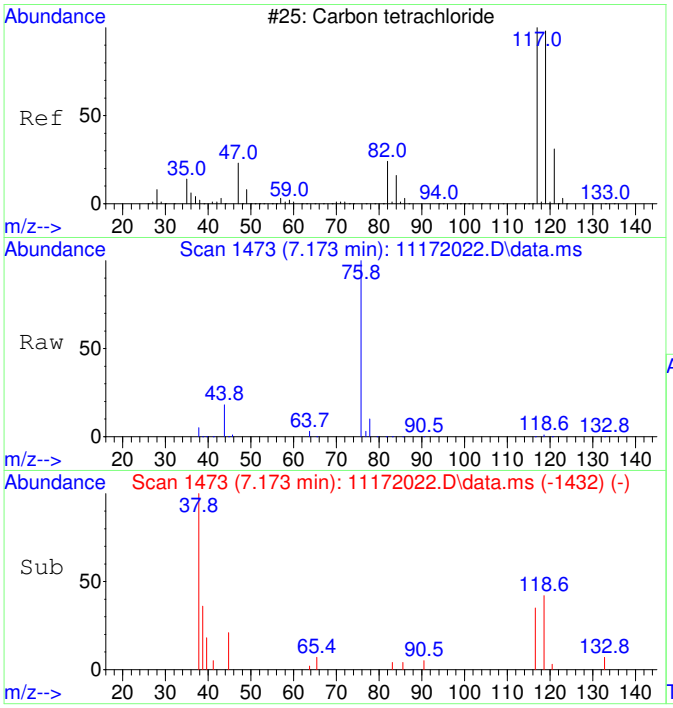


#31
1,1,1-Trichloroethane SCAN
Concen: 72.05 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 97 Resp: 1380

Ion	Ratio	Lower	Upper
97	100		
99	53.7	43.6	103.6
61	76.5	18.0	78.0

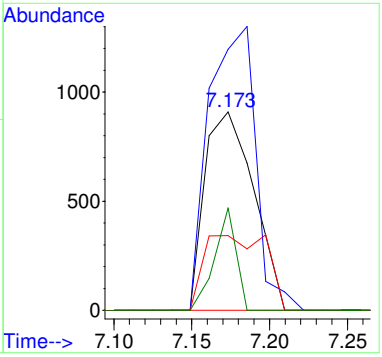


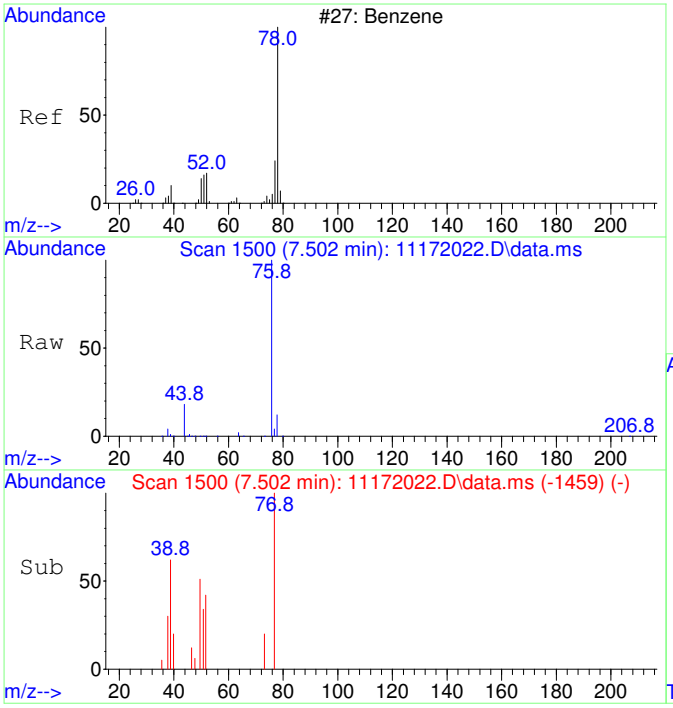


#32
Carbon tetrachloride SCAN
Concen: 99.65 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:117 Resp: 1991

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	22.6	0.0	59.2

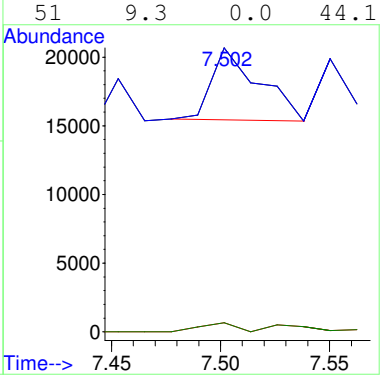


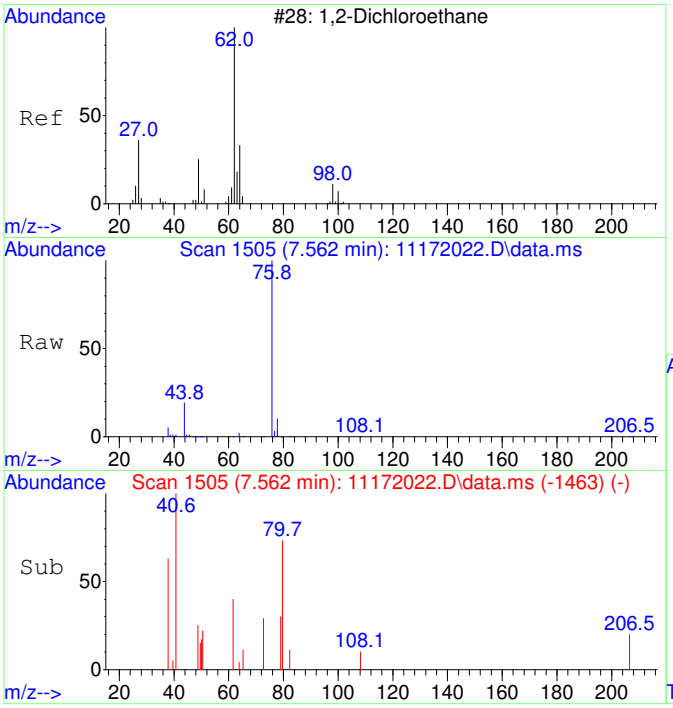


#33
Benzene SCAN
Concen: 148.96 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 78 Resp: 7856

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	9.3	0.0	47.9
51	9.3	0.0	44.1

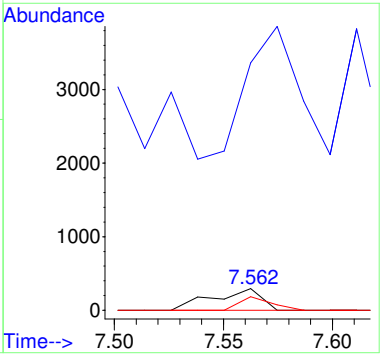


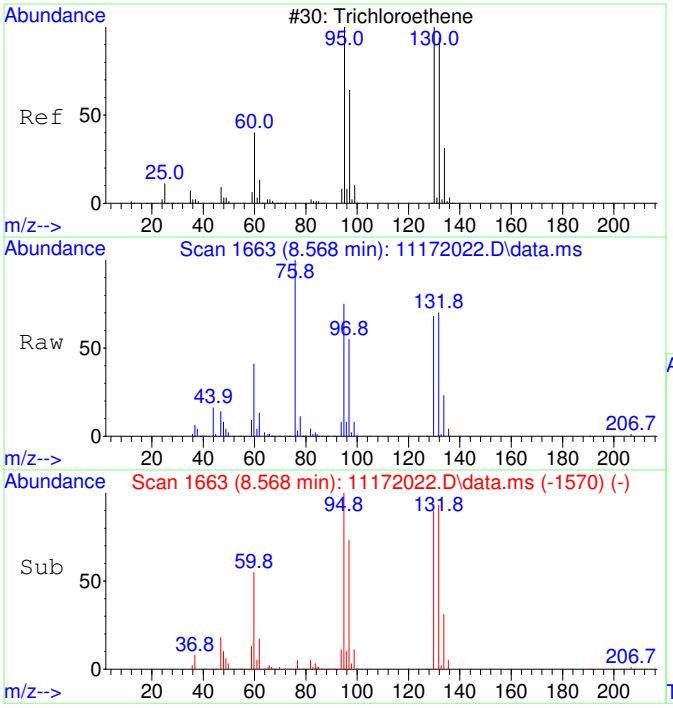


#34
1,2-Dichloroethane SCAN
Concen: 23.47 ug/L
RT: 7.562 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 62 Resp: 457

Ion	Ratio	Lower	Upper
62	100		
64	626.0	5.2	65.2#
49	41.1	3.9	63.9

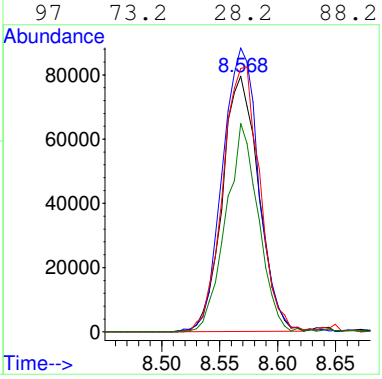


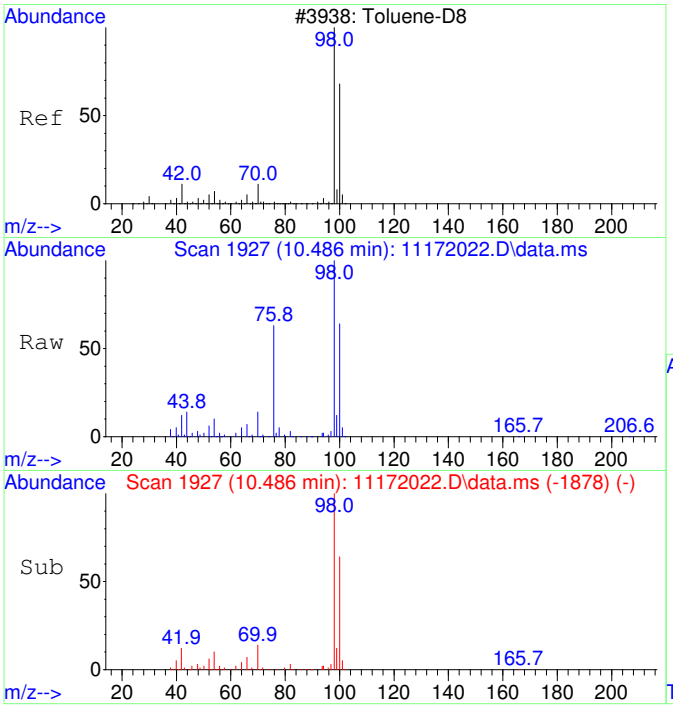


#35
Trichloroethene SCAN
Concen: 11969.24 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:130 Resp: 173473

Ion	Ratio	Lower	Upper
130	100		
95	111.1	60.5	120.5
132	105.4	59.6	119.6
97	73.2	28.2	88.2

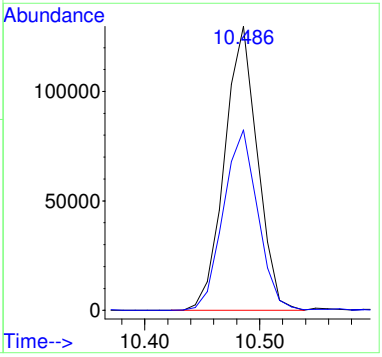


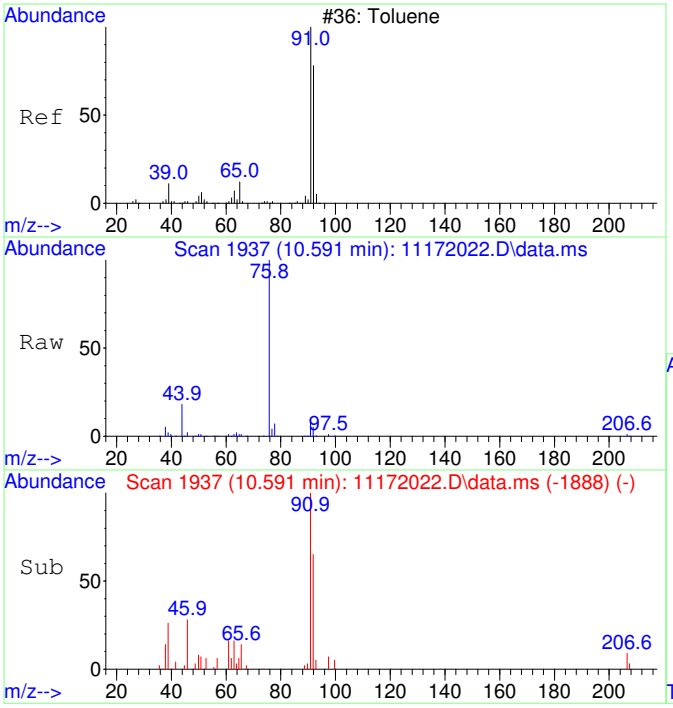


#36
Toluene-d8 SCAN
Concen: 4450.60 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 98 Resp: 258858

Ion	Ratio	Lower	Upper
98	100		
100	66.9	40.0	100.0

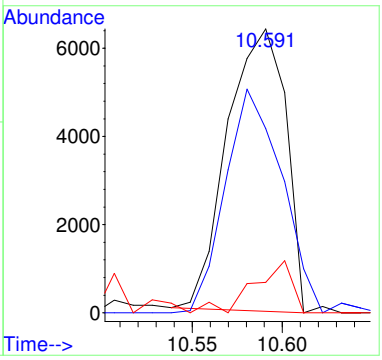


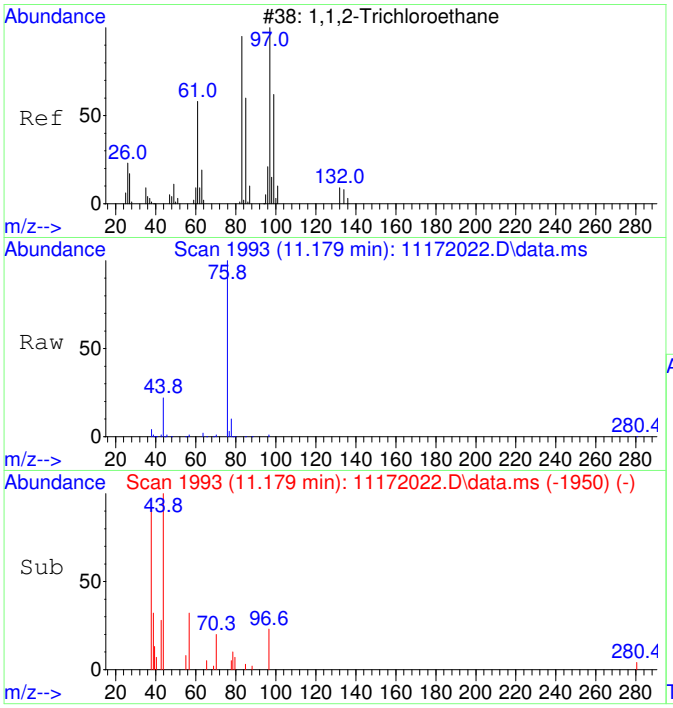


#37
Toluene SCAN
Concen: 193.06 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 14380

Ion	Ratio	Lower	Upper
91	100		
92	78.5	28.3	88.3
65	0.0	0.0	41.0

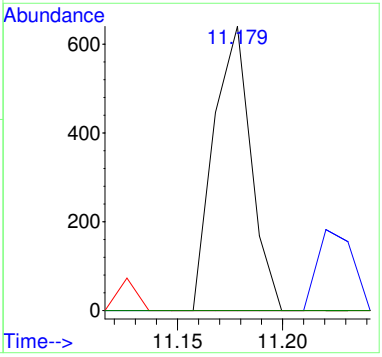


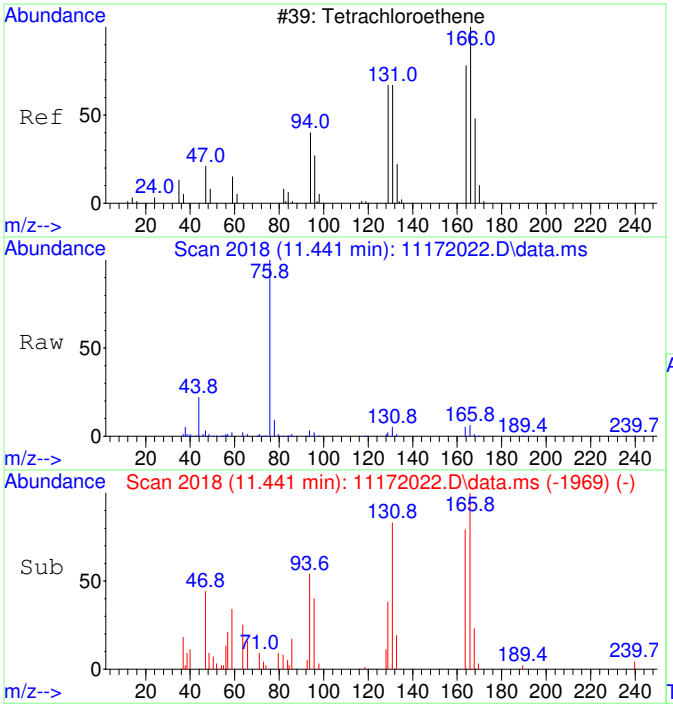


#38
1,1,2-Trichloroethane SCAN
Concen: 47.25 ug/L
RT: 11.179 min Scan# 1993
Delta R.T. -0.053 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 97 Resp: 790

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

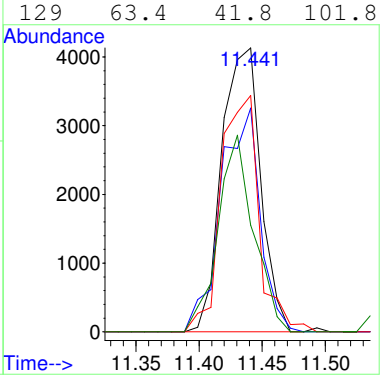


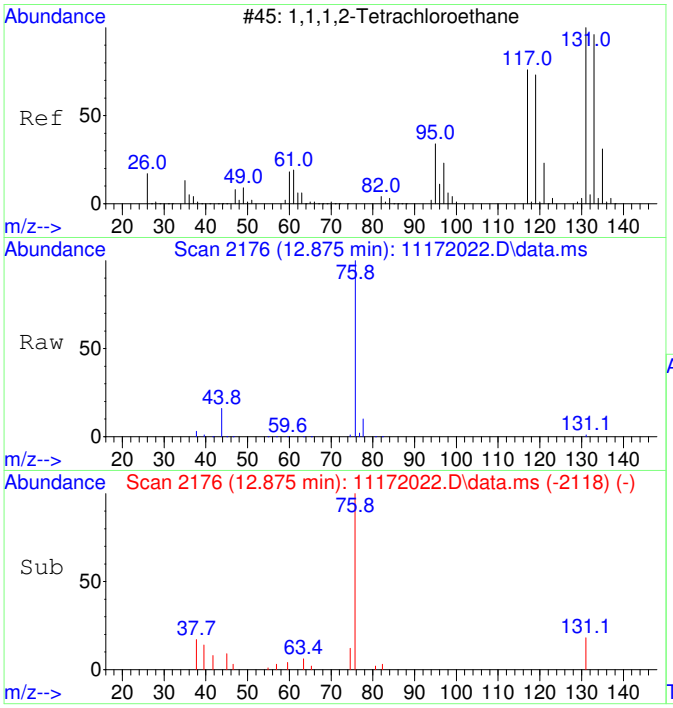


#39
Tetrachloroethene SCAN
Concen: 494.78 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:166 Resp: 8854

Ion	Ratio	Lower	Upper
166	100		
164	79.5	50.9	110.9
131	81.2	38.7	98.7
129	63.4	41.8	101.8

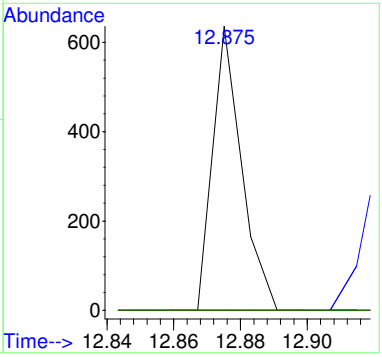


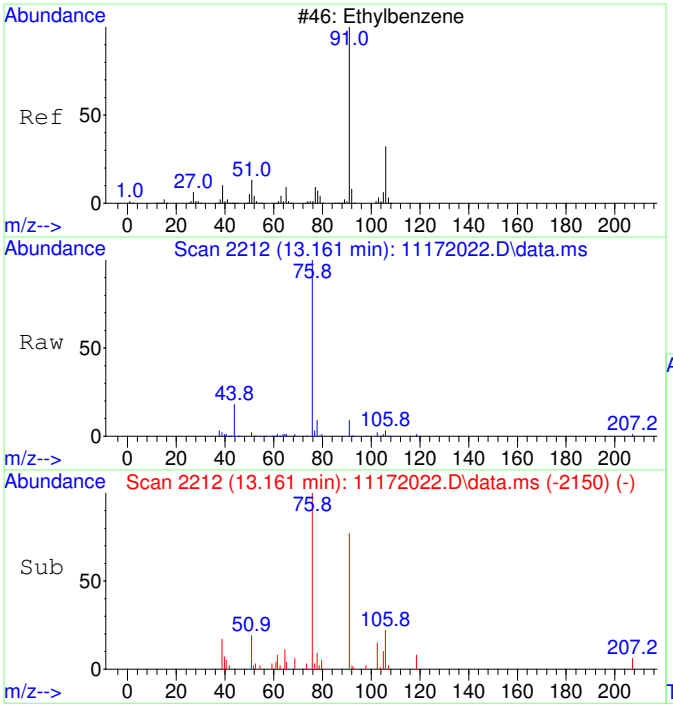


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 20.28 ug/L
RT: 12.875 min Scan# 2176
Delta R.T. -0.040 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:131 Resp: 382

Ion	Ratio	Lower	Upper
131	100		
133	0.0	66.9	126.9#
119	0.0	40.4	100.4#
117	0.0	35.1	95.1#

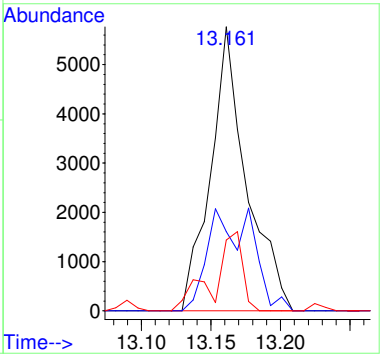


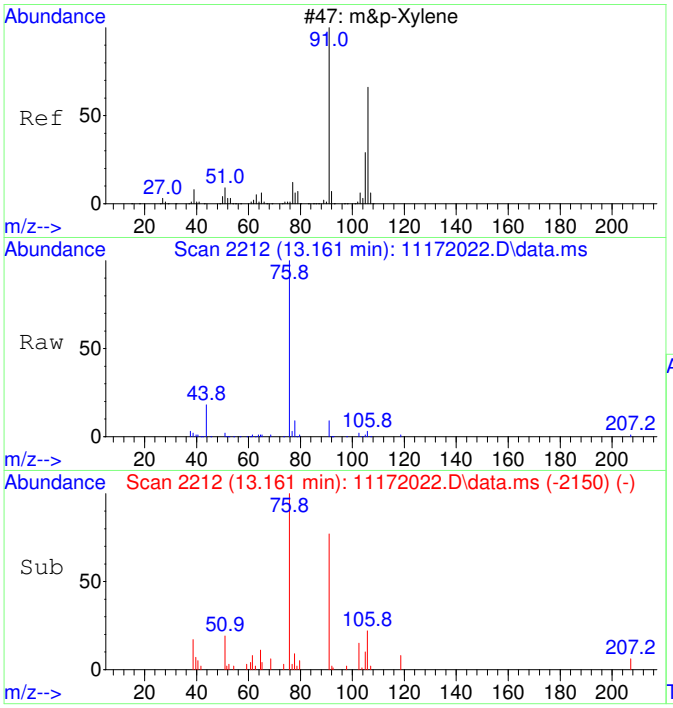


#42
Ethylbenzene SCAN
Concen: 76.40 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 10367

Ion	Ratio	Lower	Upper
91	100		
106	43.8	23.1	83.1
51	22.2	0.0	40.1

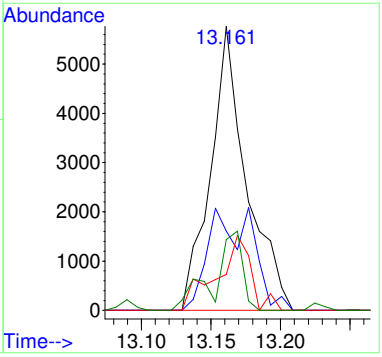


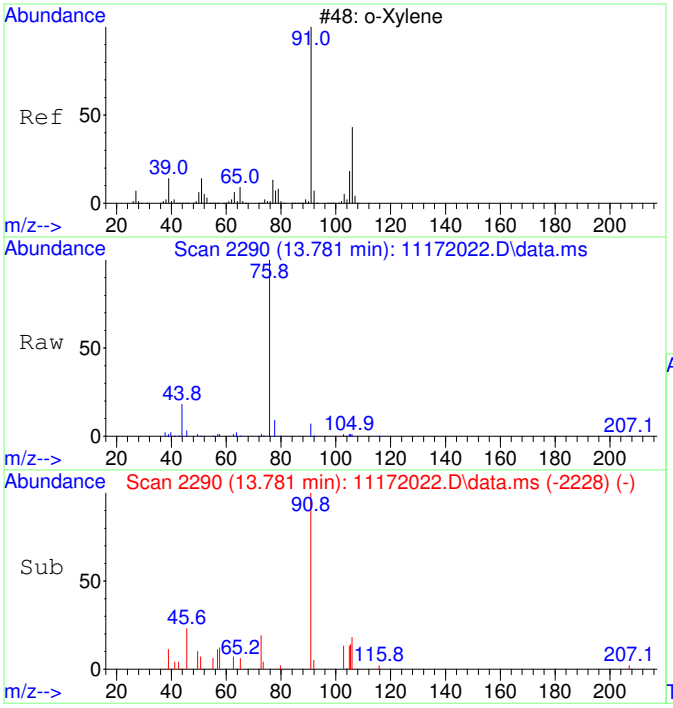


#43
m&p-Xylene SCAN
Concen: 76.40 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 10367

Ion	Ratio	Lower	Upper
91	100		
106	43.8	23.1	83.1
105	25.2	0.0	54.7
51	22.2	0.0	40.1

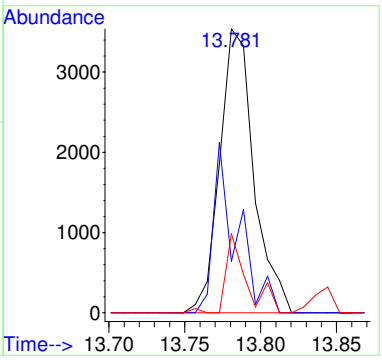


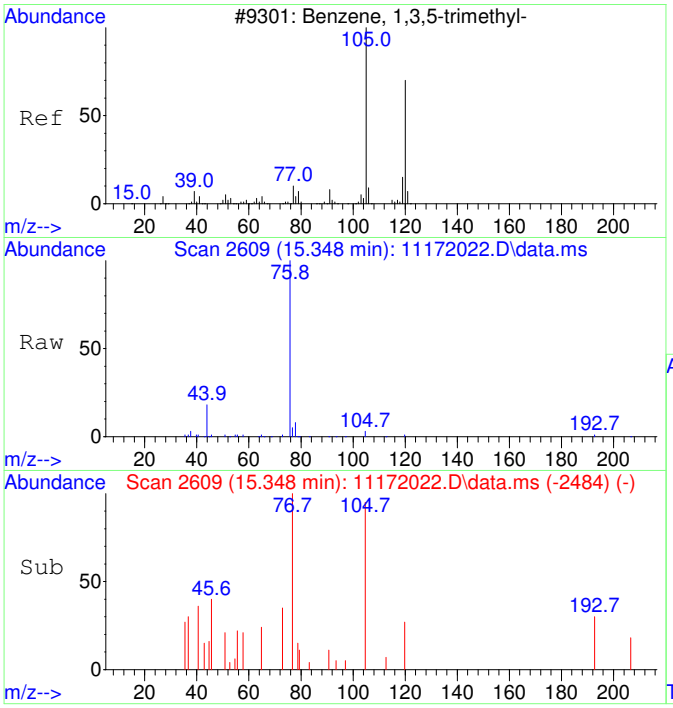


#44
o-Xylene SCAN
Concen: 76.48 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 5555

Ion	Ratio	Lower	Upper
91	100		
106	41.6	18.0	78.0
105	16.9	0.0	56.6

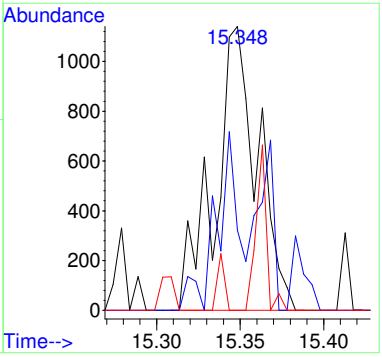


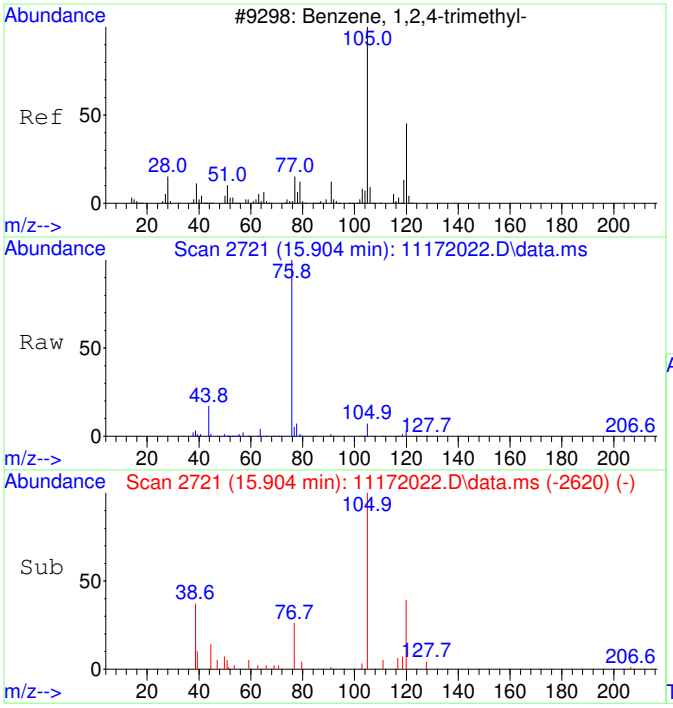


#46
1,3,5-Trimethylbenzene SCAN
Concen: 26.32 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:105 Resp: 2015

Ion	Ratio	Lower	Upper
105	100		
120	21.3	18.3	78.3
119	3.4	0.0	43.1

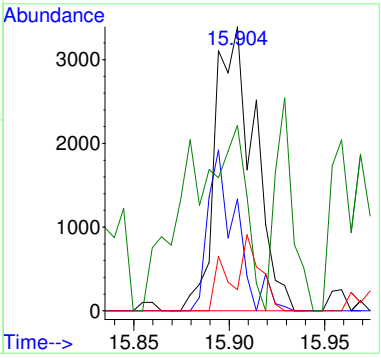




#47
1,2,4-Trimethylbenzene SCAN
Concen: 62.08 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:105 Resp: 4863

Ion	Ratio	Lower	Upper
105	100		
120	37.1	16.9	76.9
119	19.6	0.0	41.9
77	98.8	0.0	42.3#



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172022.D
Acq On : 17 Nov 2020 16:11
InstName : AG5975C
Operator : TD
Sample : 2011017-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

M.I. Performed By:
TD at 9:04 am, Nov 23, 2020

M.I. Approved By:
ZR at 3:41 pm, Nov 23, 2020

Quant Time: Nov 18 06:16:28 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

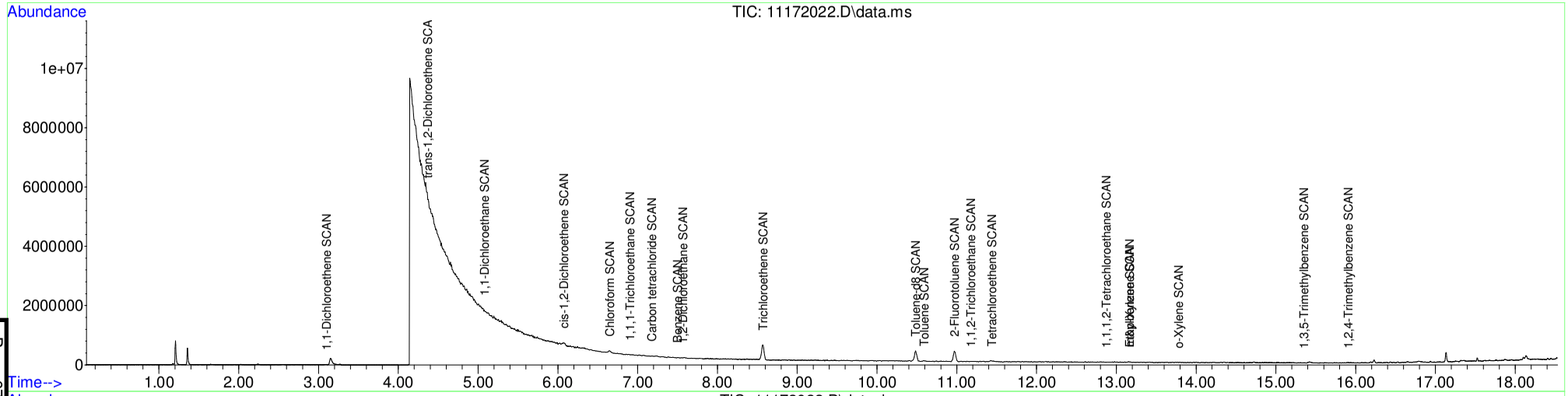
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	610092	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	521792	4368.94 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.38%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	4511m	185.17 ug/L	
3] trans-1,2-Dichloroethene	4.343	61	6075	215.83 ug/L	84
4] 1,1-Dichloroethane	5.072	63	6047	172.59 ug/L	84
5] cis-1,2-Dichloroethene	6.074	61	111080	3003.40 ug/L	99
6] Chloroform	6.639	83	131754	3480.47 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	4245	103.26 ug/L	99
8] Carbon tetrachloride	7.175	117	3702	95.67 ug/L	99
9] Benzene	7.503	78	18533	178.79 ug/L	76
10] 1,2-Dichloroethane	7.539	62	869	23.48 ug/L #	42
11] Trichloroethene	8.569	130	396150	12693.02 ug/L	94
13] Toluene	10.582	91	32105	210.85 ug/L	98
15] Tetrachloroethene	11.432	166	18897	428.84 ug/L	99
18] Ethylbenzene	12.972	91	10047	54.21 ug/L	94
19] m&p-Xylene	13.162	91	22244	153.56 ug/L	95
20] o-Xylene	13.782	91	8754	56.57 ug/L	98
23] 1,2,4-Trimethylbenzene	15.901	105	8966	52.40 ug/L	91
25) 2-Fluorotoluene SCAN	10.969	109	295982	4976.77 ug/L	99
26) 1,1-Dichloroethene SCAN	3.103	61	305	24.15 ug/L	92
27) trans-1,2-Dichloroethe...	4.361	61	3334	213.32 ug/L #	73
28) 1,1-Dichloroethane SCAN	5.078	63	3227	178.41 ug/L	82
29) cis-1,2-Dichloroethene...	6.073	61	60119	3102.25 ug/L	86
30) Chloroform SCAN	6.650	83	67176	3195.90 ug/L	90
31) 1,1,1-Trichloroethane ...	6.906	97	1380	72.05 ug/L	69
32) Carbon tetrachloride SCAN	7.173	117	1991	99.65 ug/L #	22
33) Benzene SCAN	7.502	78	7856	148.96 ug/L	96
34) 1,2-Dichloroethane SCAN	7.562	62	457	23.47 ug/L #	1
35) Trichloroethene SCAN	8.568	130	173473	11969.24 ug/L	80
36) Toluene-d8 SCAN	10.486	98	258858	4450.60 ug/L	96
37) Toluene SCAN	10.591	91	14380	193.06 ug/L #	73
38) 1,1,2-Trichloroethane ...	11.179	97	790	47.25 ug/L #	13
39) Tetrachloroethene SCAN	11.441	166	8854	494.78 ug/L	91
41) 1,1,1,2-Tetrachloroeth...	12.875	131	382	20.28 ug/L #	10
42) Ethylbenzene SCAN	13.161	91	10367	76.40 ug/L	84
43) m&p-Xylene SCAN	13.161	91	10367	76.40 ug/L	88
44) o-Xylene SCAN	13.781	91	5555	76.48 ug/L	87
46) 1,3,5-Trimethylbenzene...	15.348	105	2015	26.32 ug/L	63
47) 1,2,4-Trimethylbenzene...	15.904	105	4863	62.08 ug/L #	49

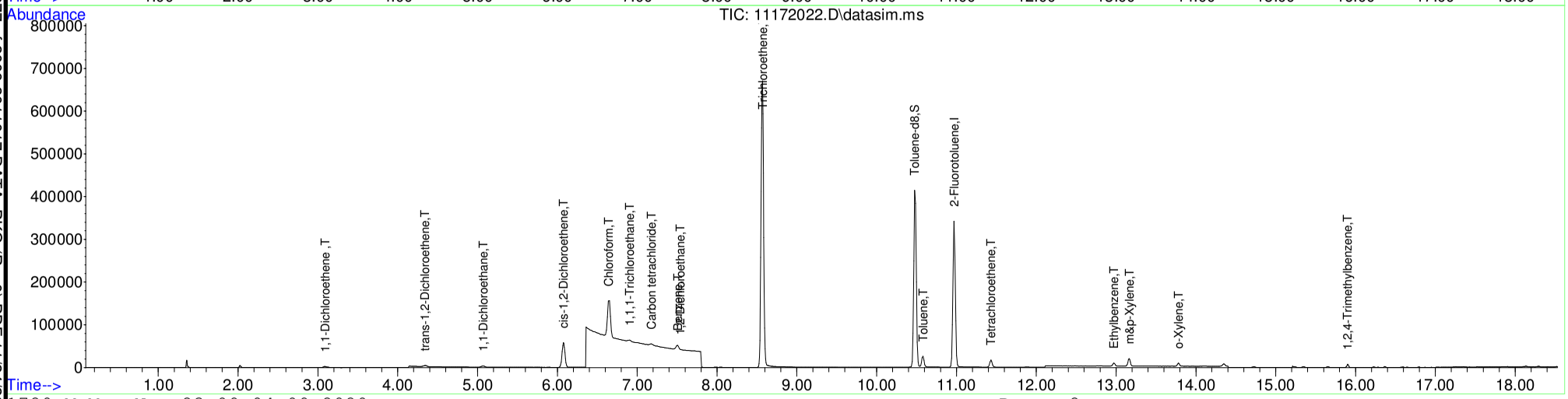
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172022.D
Acq On : 17 Nov 2020 16:11
InstName : AG5975C
Operator : TD
Sample : 2011017-11
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 18 06:16:28 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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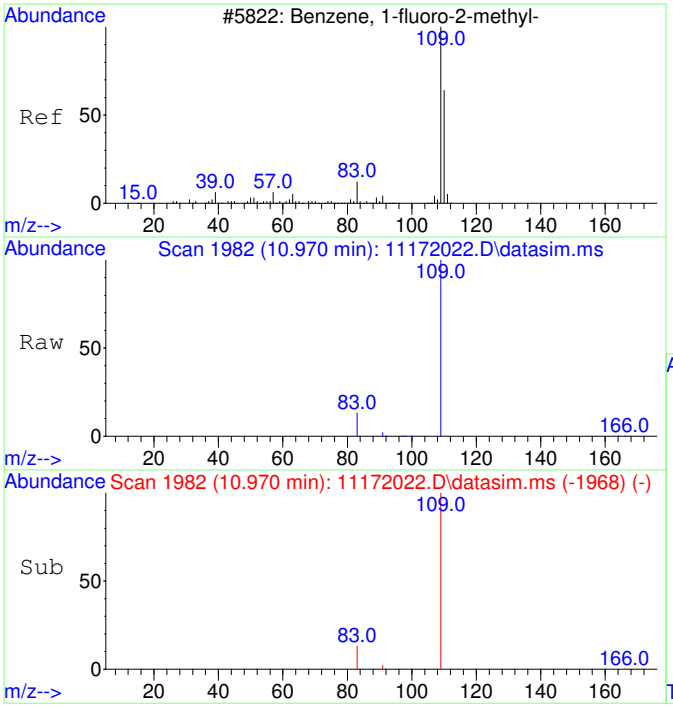
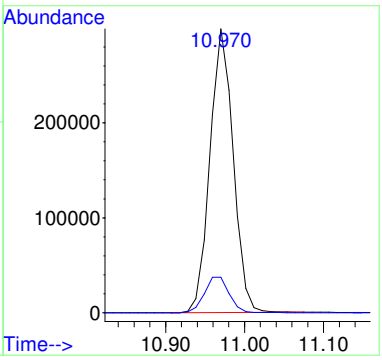
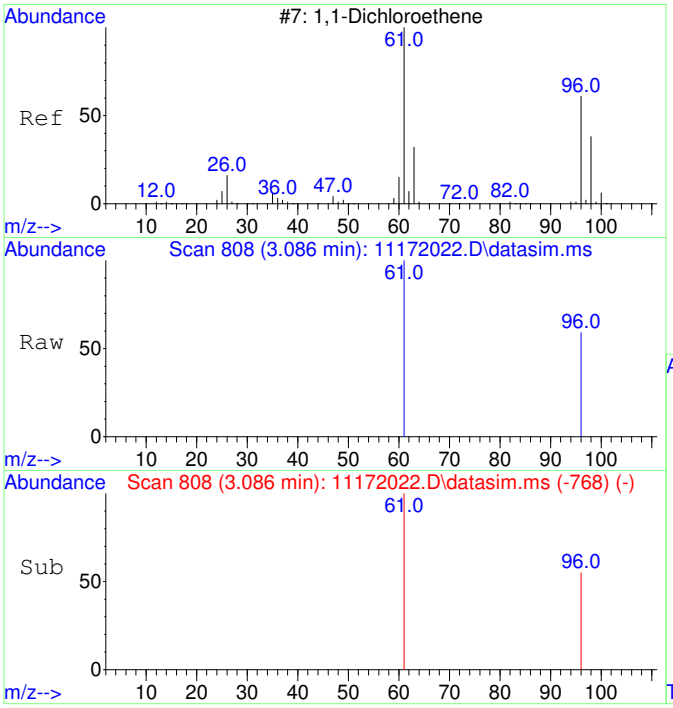


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:109 Resp: 610092

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

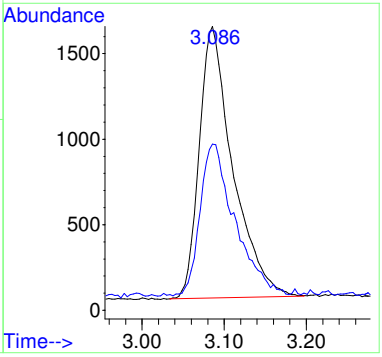


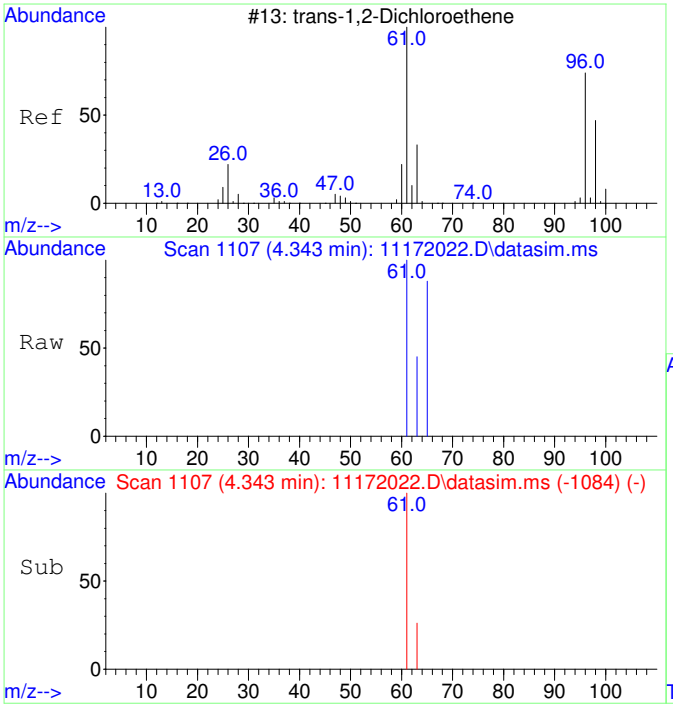


#2
1,1-Dichloroethene
Concen: 185.17 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 61 Resp: 4511

Ion	Ratio	Lower	Upper
61	100		
96	57.6	37.2	97.2

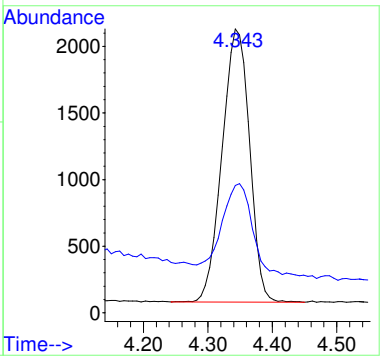


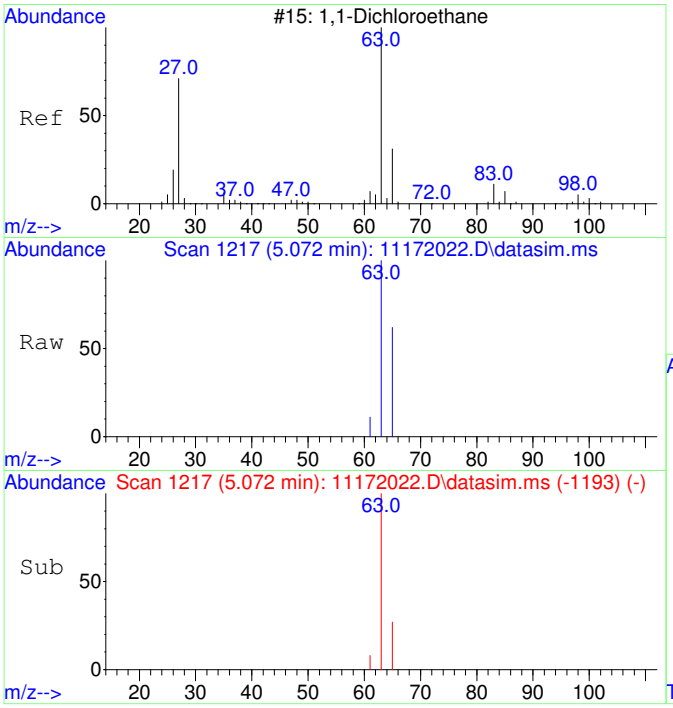


#3
trans-1,2-Dichloroethene
Concen: 215.83 ug/L
RT: 4.343 min Scan# 1107
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 61 Resp: 6075

Ion	Ratio	Lower	Upper
61	100		
63	41.6	2.4	62.4

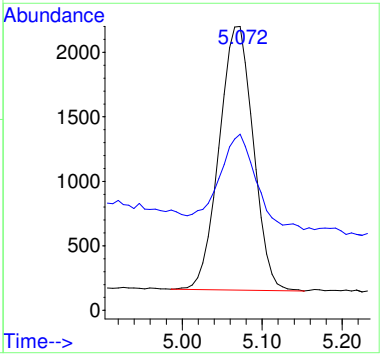


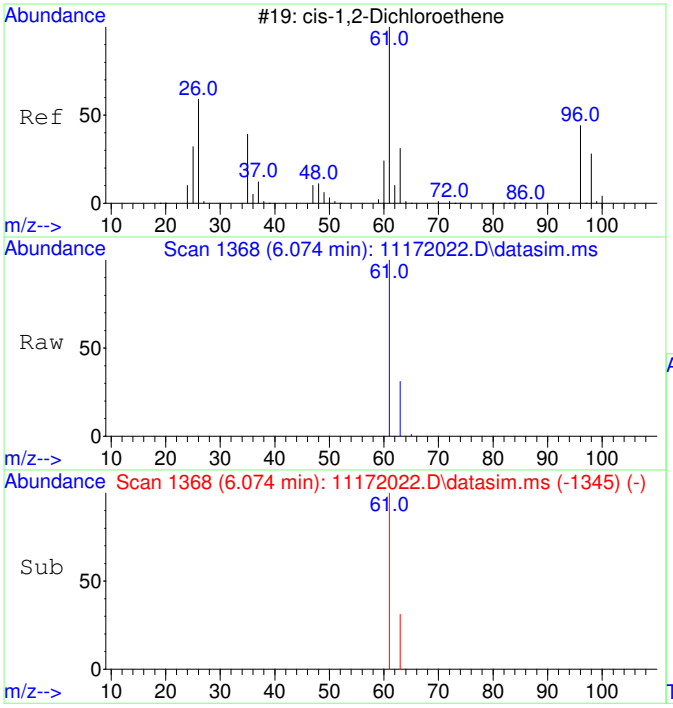


#4
1,1-Dichloroethane
Concen: 172.59 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.006 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 63 Resp: 6047

Ion	Ratio	Lower	Upper
63	100		
65	40.6	1.8	61.8

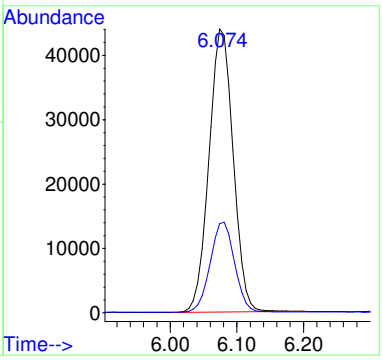


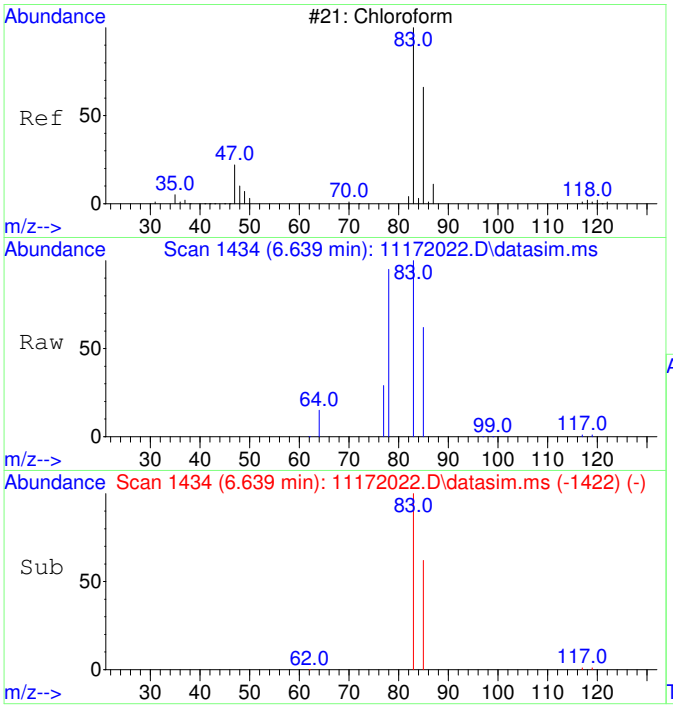


#5
cis-1,2-Dichloroethene
Concen: 3003.40 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 61 Resp: 111080

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

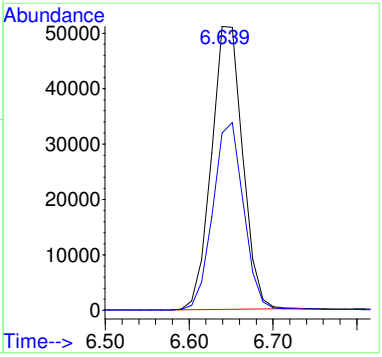


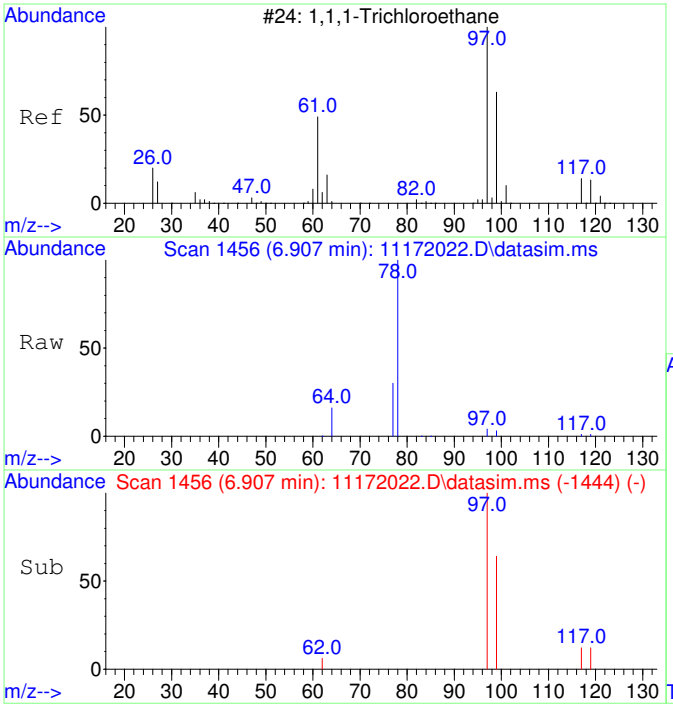


#6
Chloroform
Concen: 3480.47 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 83 Resp: 131754

Ion	Ratio	Lower	Upper
83	100		
85	64.7	35.1	95.1

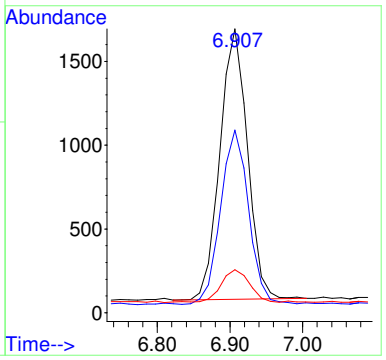


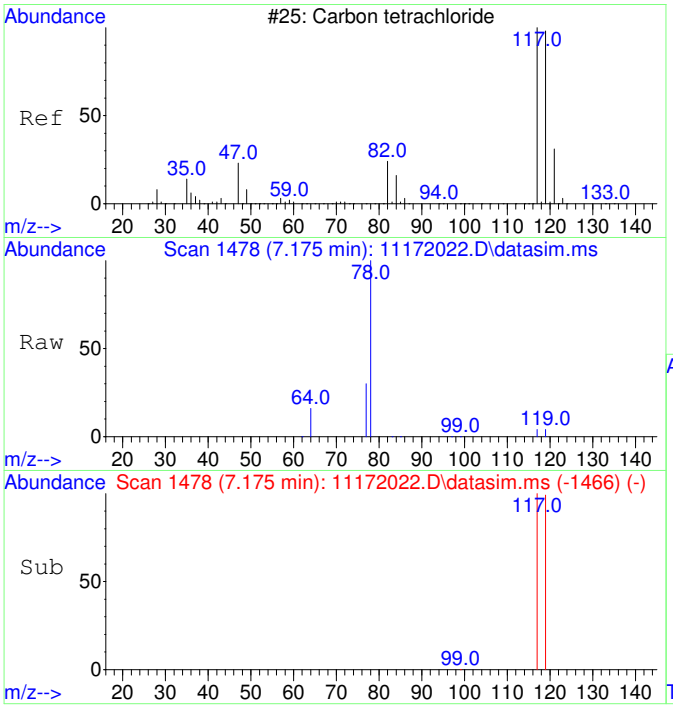


#7
1,1,1-Trichloroethane
Concen: 103.26 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 97 Resp: 4245

Ion	Ratio	Lower	Upper
97	100		
99	65.4	34.6	94.6
117	12.2	0.0	43.2

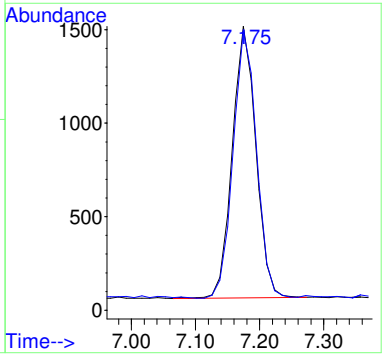


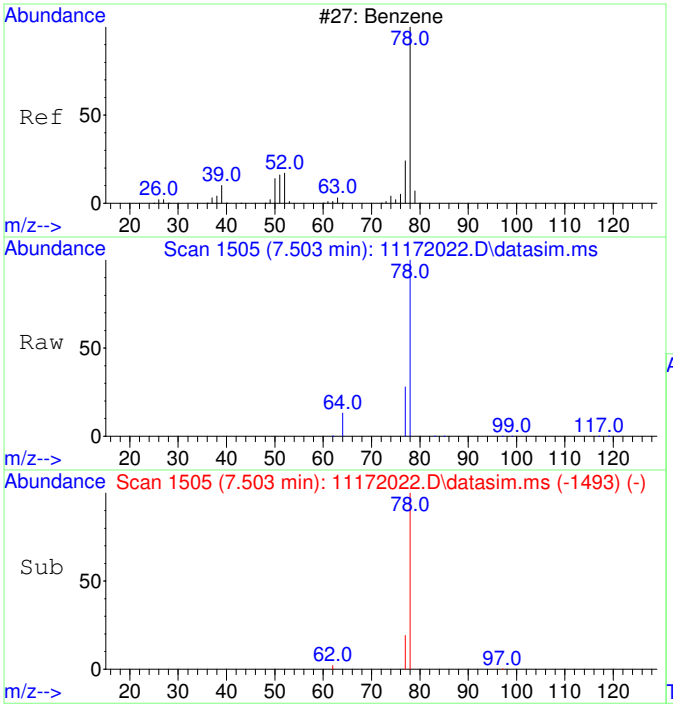


#8
Carbon tetrachloride
Concen: 95.67 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:117 Resp: 3702

Ion	Ratio	Lower	Upper
117	100		
119	97.5	66.4	126.4

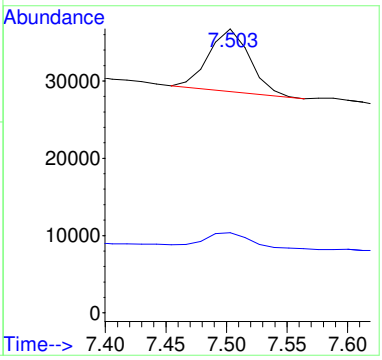


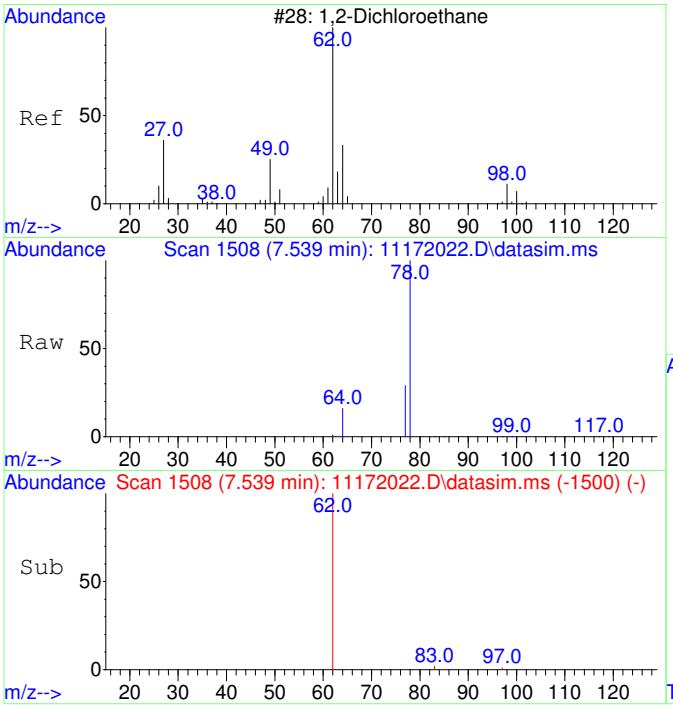


#9
Benzene
Concen: 178.79 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 78 Resp: 18533

Ion	Ratio	Lower	Upper
78	100		
77	34.8	0.0	53.2

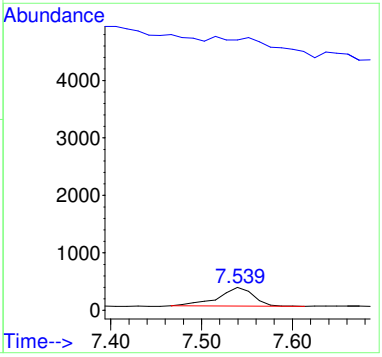


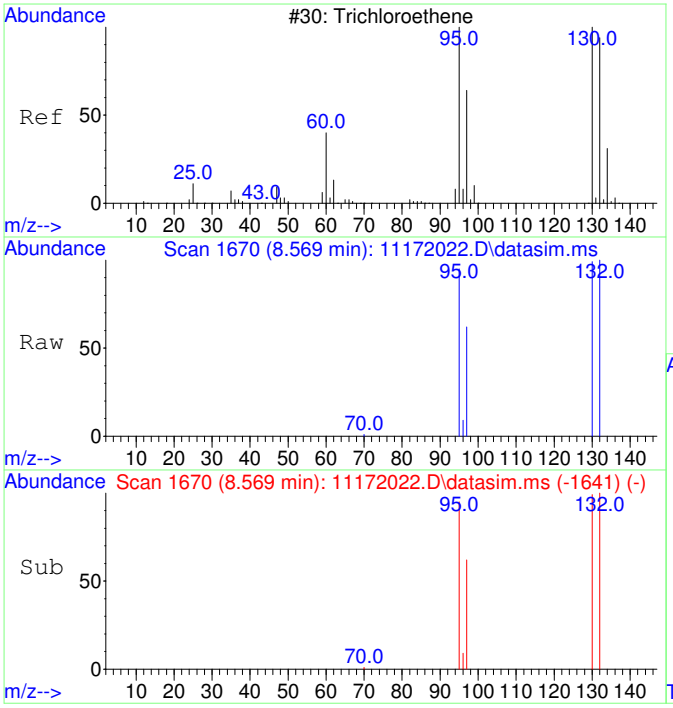


#10
1,2-Dichloroethane
Concen: 23.48 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 62 Resp: 869

Ion	Ratio	Lower	Upper
62	100		
64	0.0	2.3	62.3#

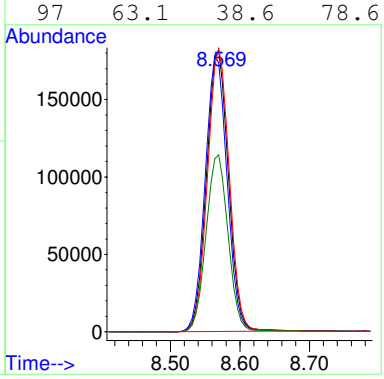


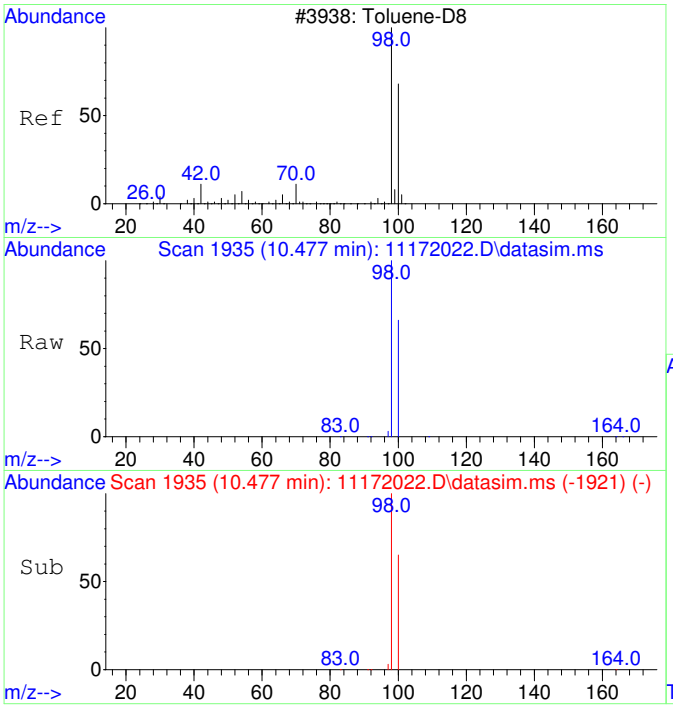


#11
Trichloroethene
Concen: 12693.02 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:130 Resp: 396150

Ion	Ratio	Lower	Upper
130	100		
95	98.3	60.7	120.7
132	99.9	76.0	116.0
97	63.1	38.6	78.6

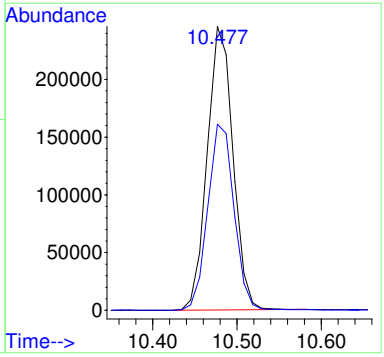


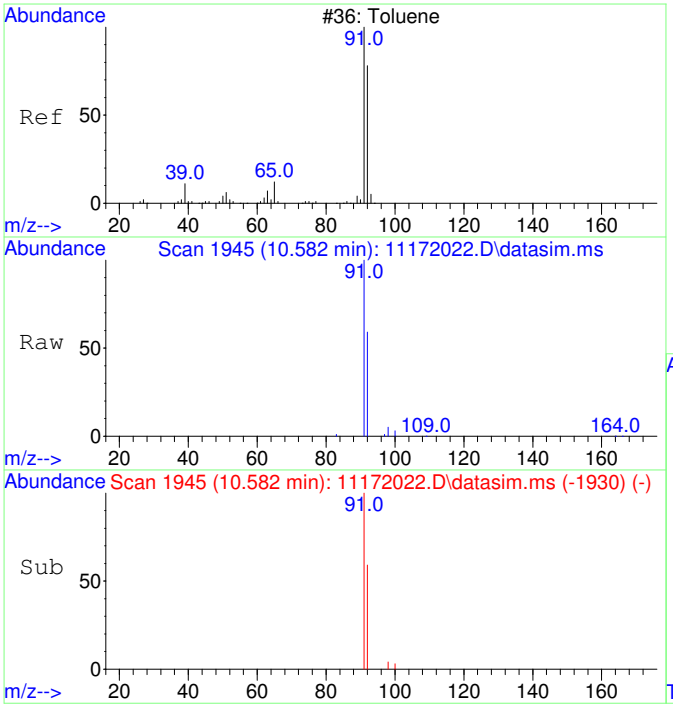


#12
Toluene-d8
Concen: 4368.94 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 98 Resp: 521792

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

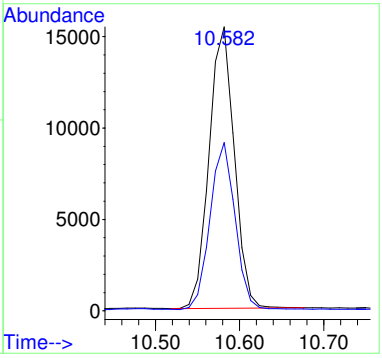


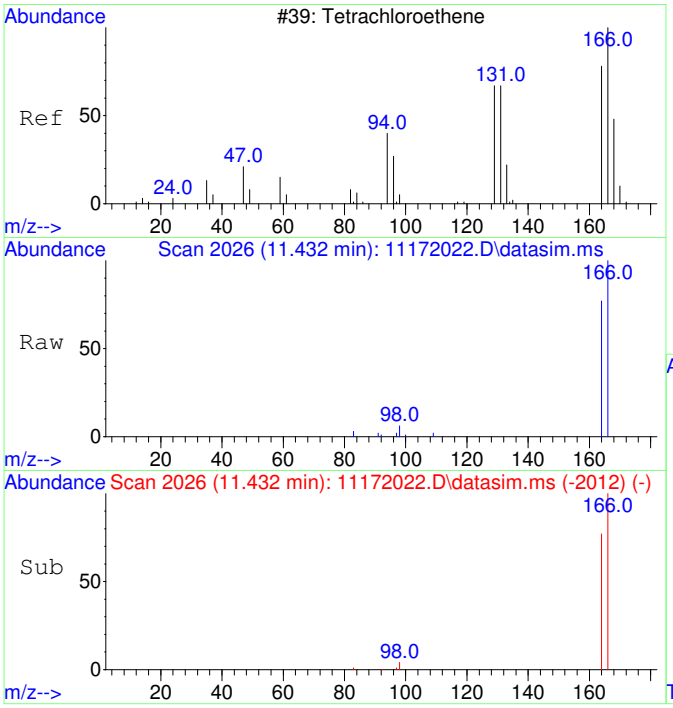


#13
Toluene
Concen: 210.85 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 32105

Ion	Ratio	Lower	Upper
91	100		
92	58.5	29.9	89.9

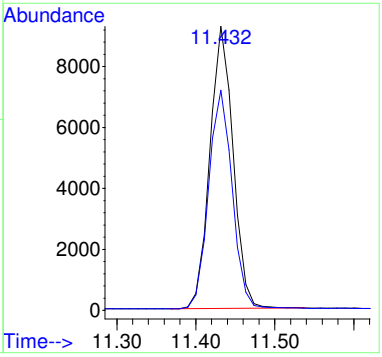


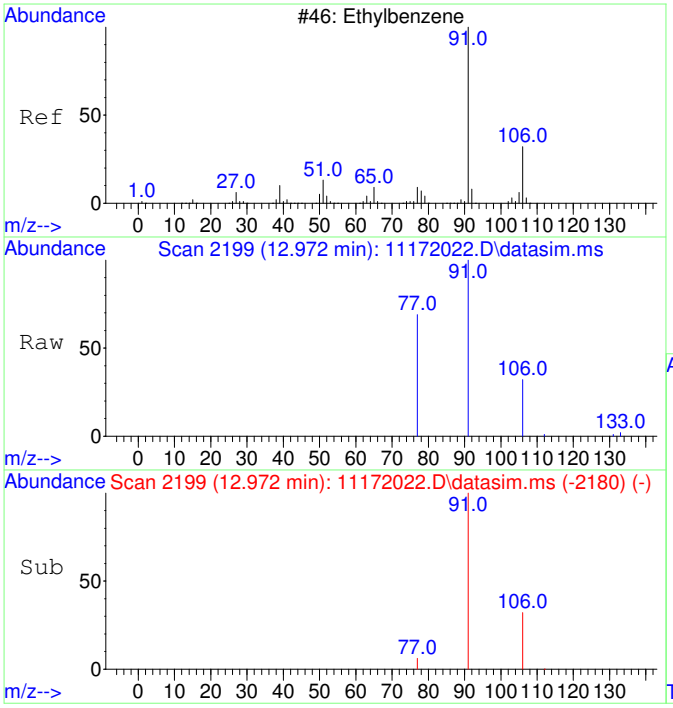


#15
Tetrachloroethene
Concen: 428.84 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:166 Resp: 18897

Ion	Ratio	Lower	Upper
166	100		
164	78.3	47.8	107.8

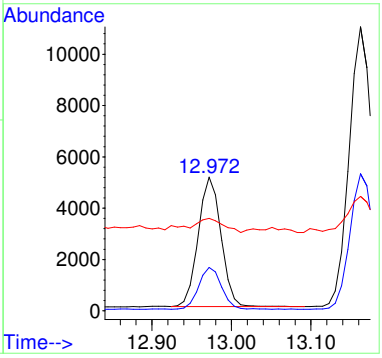


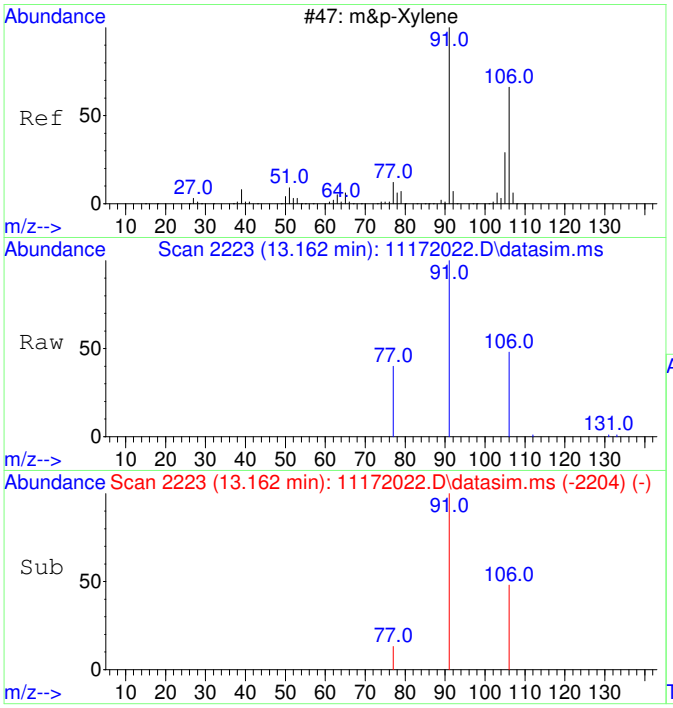


#18
Ethylbenzene
Concen: 54.21 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 10047

Ion	Ratio	Lower	Upper
91	100		
106	32.3	3.0	63.0
77	17.6	0.0	38.2

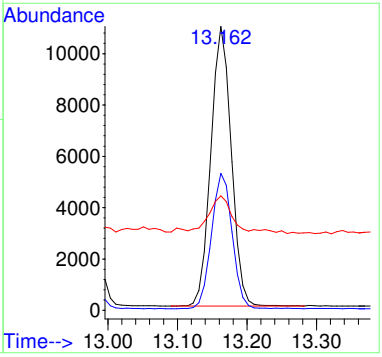


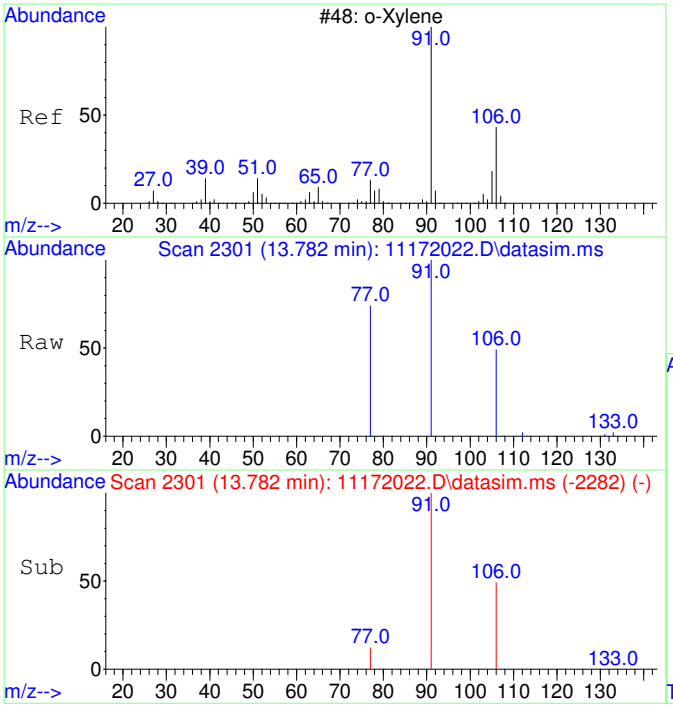


#19
m&p-Xylene
Concen: 153.56 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 22244

Ion	Ratio	Lower	Upper
91	100		
106	48.8	22.2	82.2
77	13.9	0.0	42.4

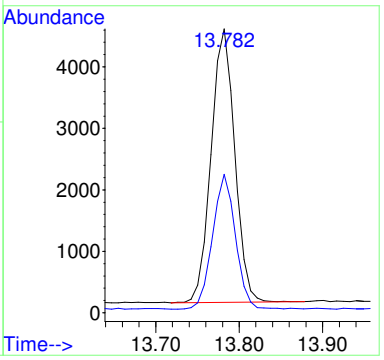


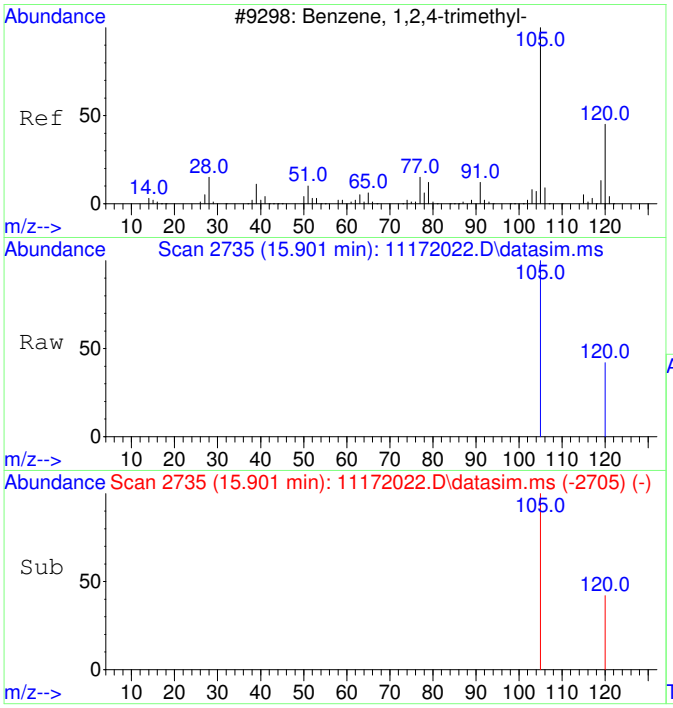


#20
o-Xylene
Concen: 56.57 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 8754

Ion	Ratio	Lower	Upper
91	100		
106	47.7	19.2	79.2

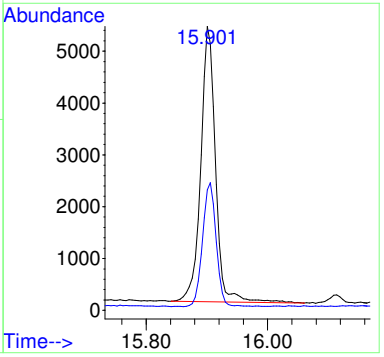


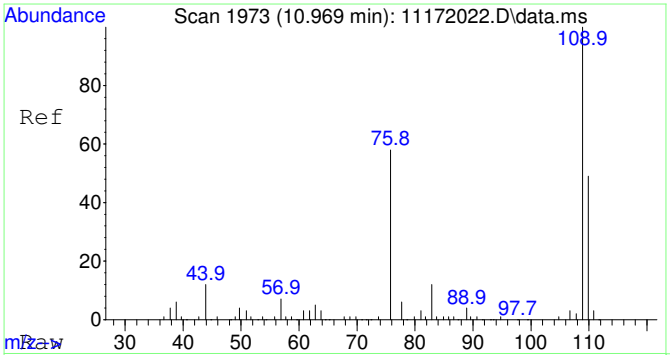


#23
1,2,4-Trimethylbenzene
Concen: 52.40 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:105 Resp: 8966

Ion	Ratio	Lower	Upper
105	100		
120	41.3	17.2	77.2

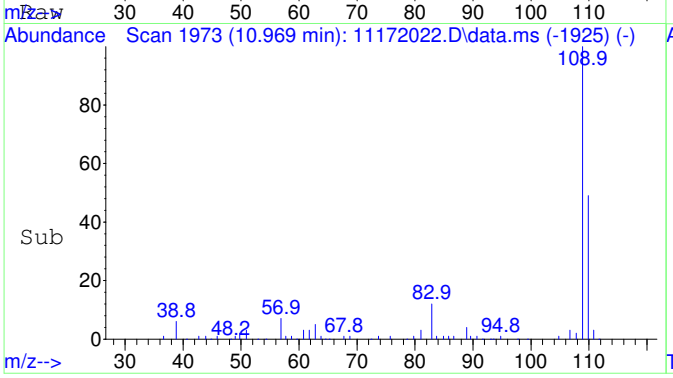


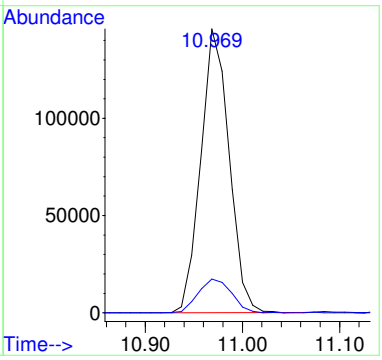


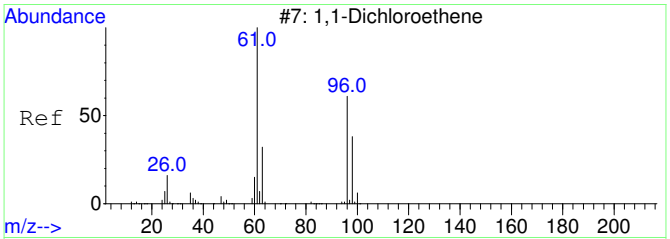
#25
2-Fluorotoluene SCAN
Concen: 4976.77 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:109 Resp: 295982

Ion	Ratio	Lower	Upper
109	100		
83	14.1	0.0	43.8



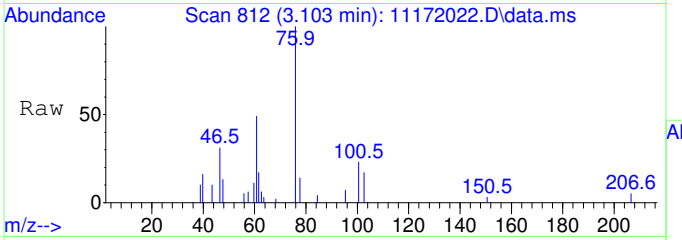


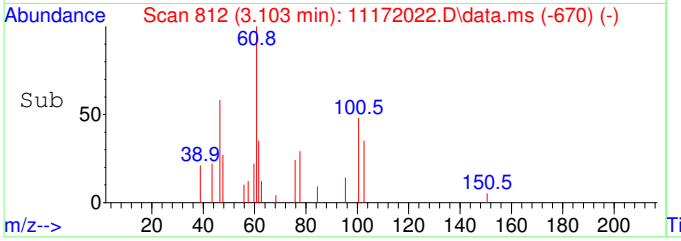


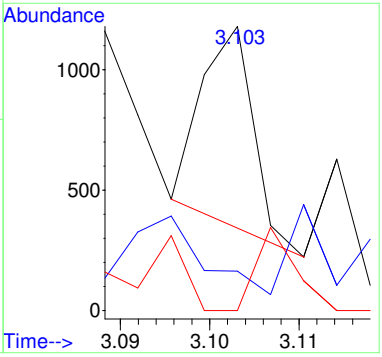
#26
1,1-Dichloroethene SCAN
Concen: 24.15 ug/L
RT: 3.103 min Scan# 812
Delta R.T. 0.026 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

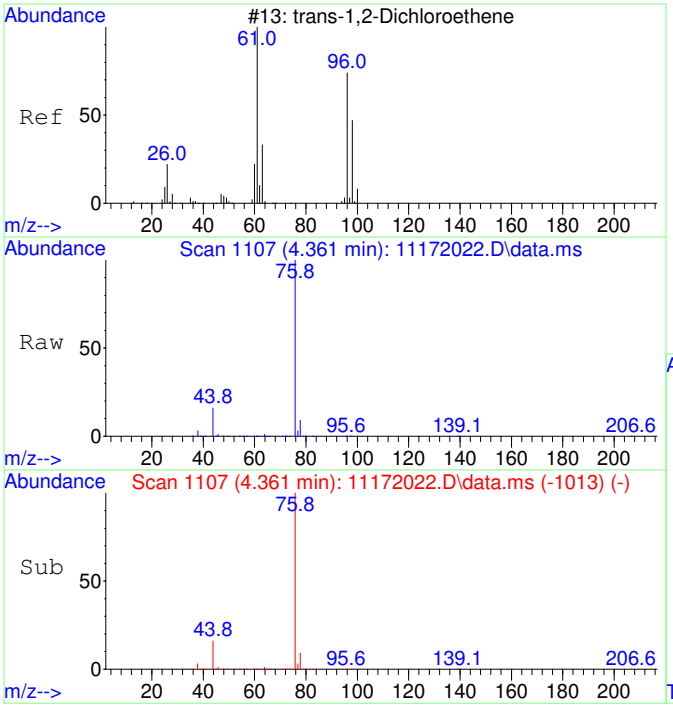
Tgt Ion: 61 Resp: 305

Ion	Ratio	Lower	Upper
61	100		
96	67.9	33.1	93.1
98	34.1	11.2	71.2





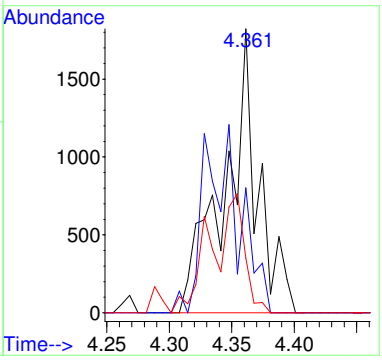


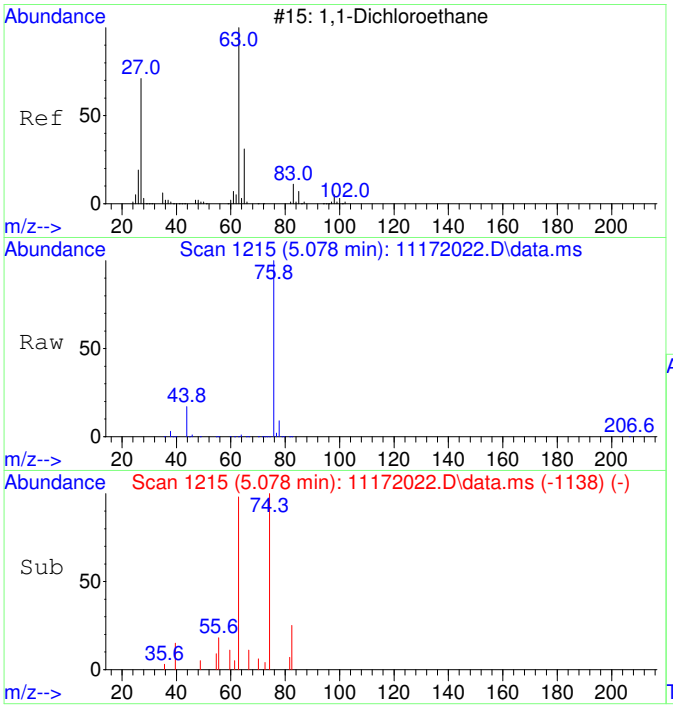


#27
trans-1,2-Dichloroethene SCAN
Concen: 213.32 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. 0.013 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 61 Resp: 3334

Ion	Ratio	Lower	Upper
61	100		
96	69.9	49.0	109.0
98	14.4	20.5	80.5#

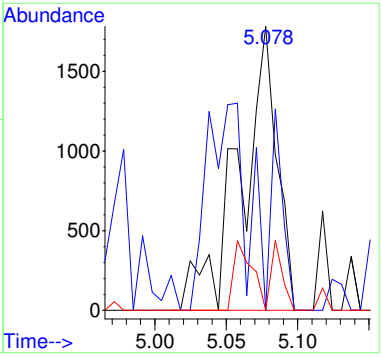


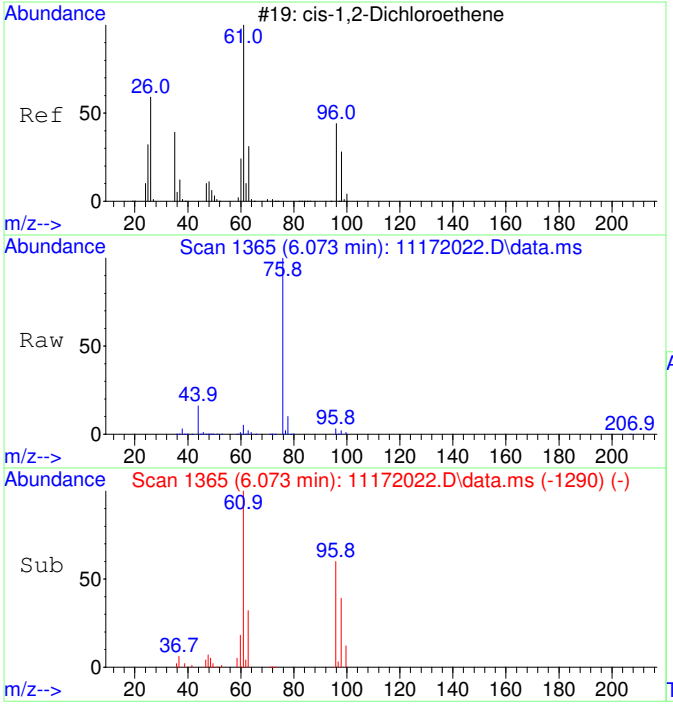


#28
1,1-Dichloroethane SCAN
Concen: 178.41 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 63 Resp: 3227

Ion	Ratio	Lower	Upper
63	100		
65	21.9	1.3	61.3
83	7.4	0.0	45.9

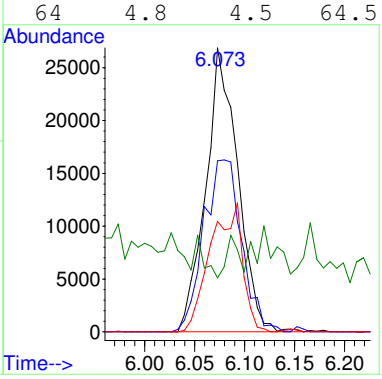


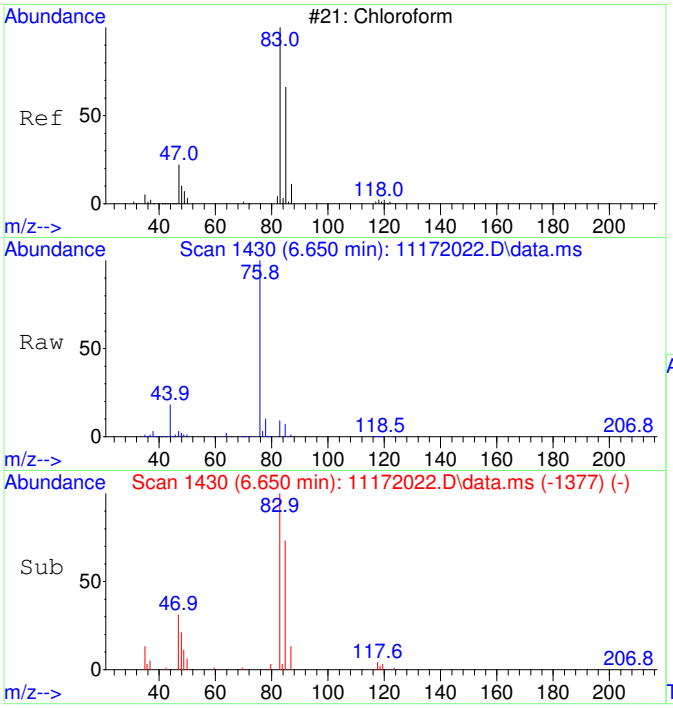


#29
cis-1,2-Dichloroethene SCAN
Concen: 3102.25 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 61 Resp: 60119

Ion	Ratio	Lower	Upper
61	100		
96	71.2	39.9	99.9
98	45.4	13.5	73.5
64	4.8	4.5	64.5

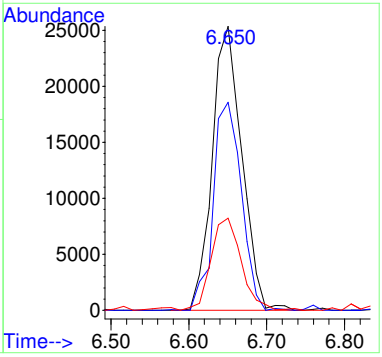


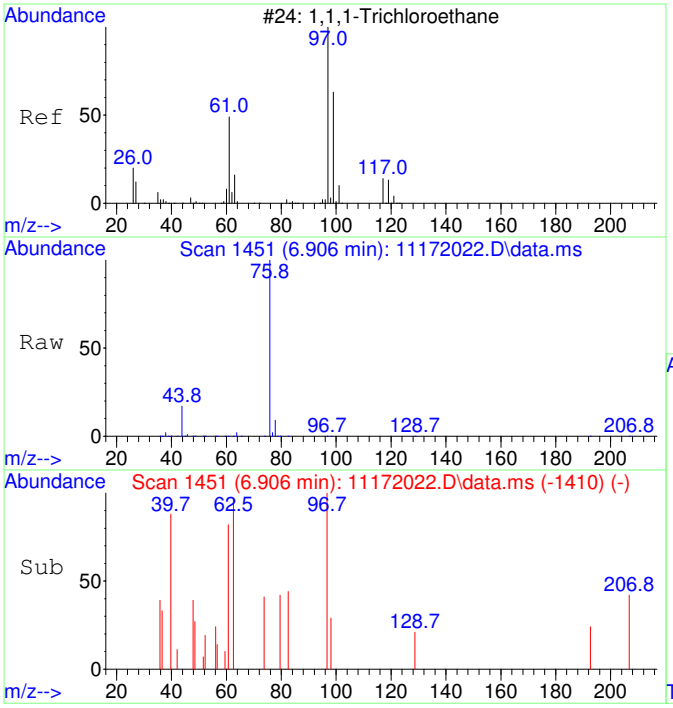


#30
Chloroform SCAN
Concen: 3195.90 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 83 Resp: 67176

Ion	Ratio	Lower	Upper
83	100		
85	69.5	34.6	94.6
47	33.1	0.0	53.4

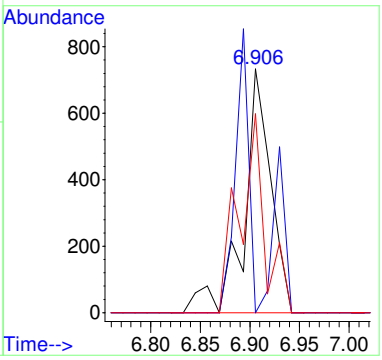


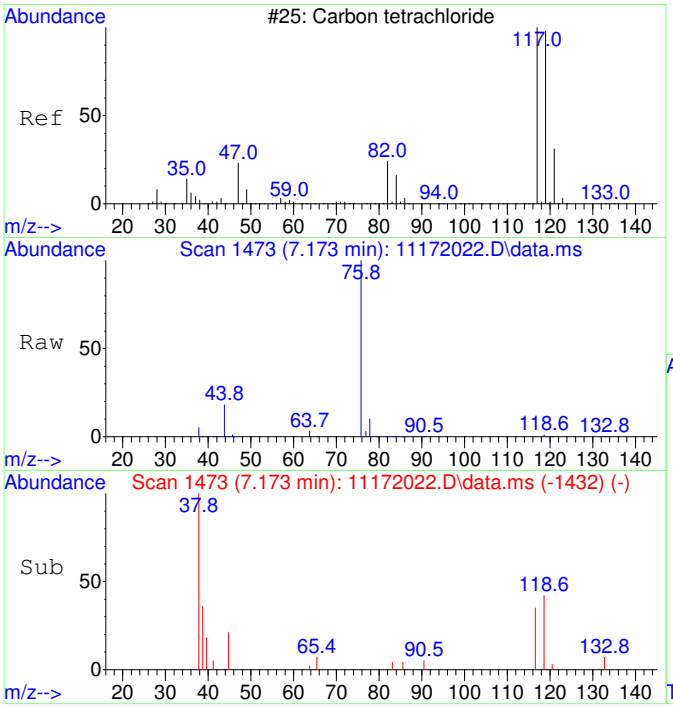


#31
1,1,1-Trichloroethane SCAN
Concen: 72.05 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 97 Resp: 1380

Ion	Ratio	Lower	Upper
97	100		
99	53.7	43.6	103.6
61	76.5	18.0	78.0

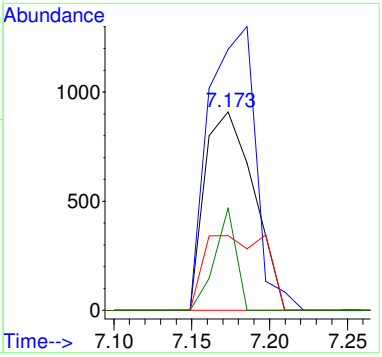


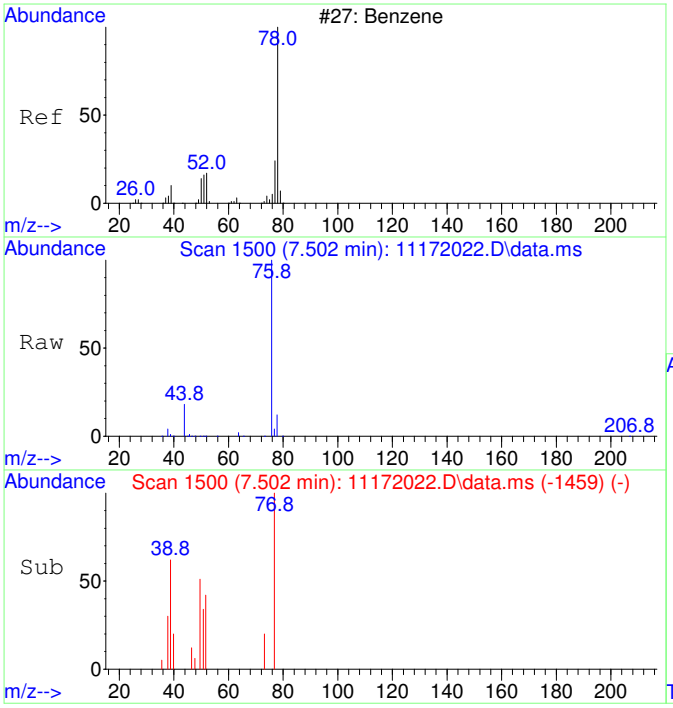


#32
Carbon tetrachloride SCAN
Concen: 99.65 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:117 Resp: 1991

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	22.6	0.0	59.2

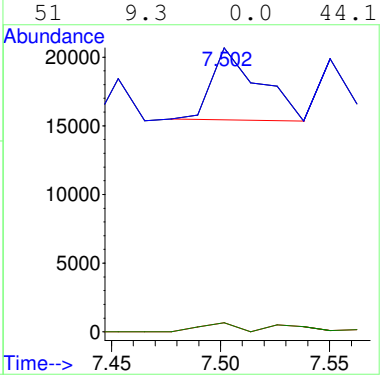


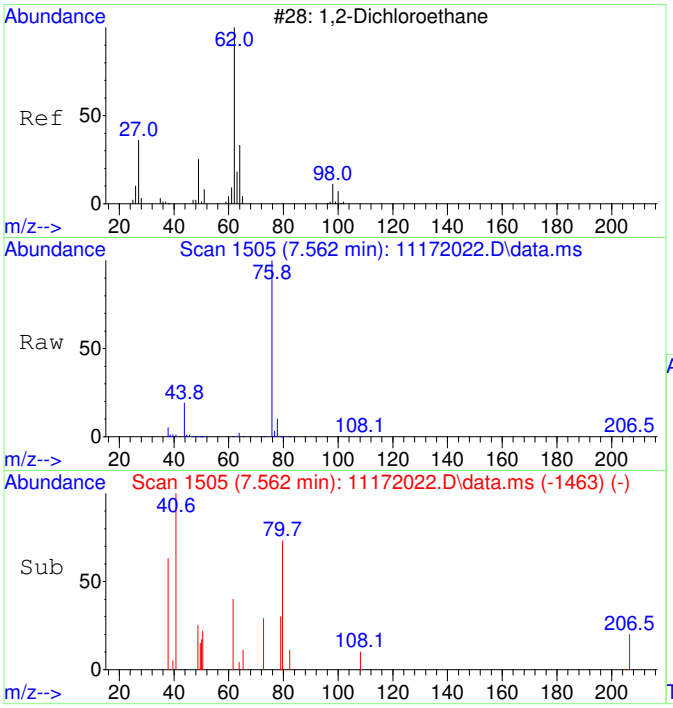


#33
Benzene SCAN
Concen: 148.96 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 78 Resp: 7856

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	9.3	0.0	47.9
51	9.3	0.0	44.1

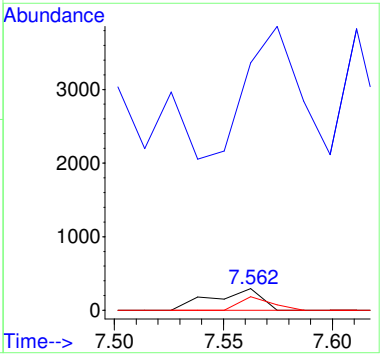


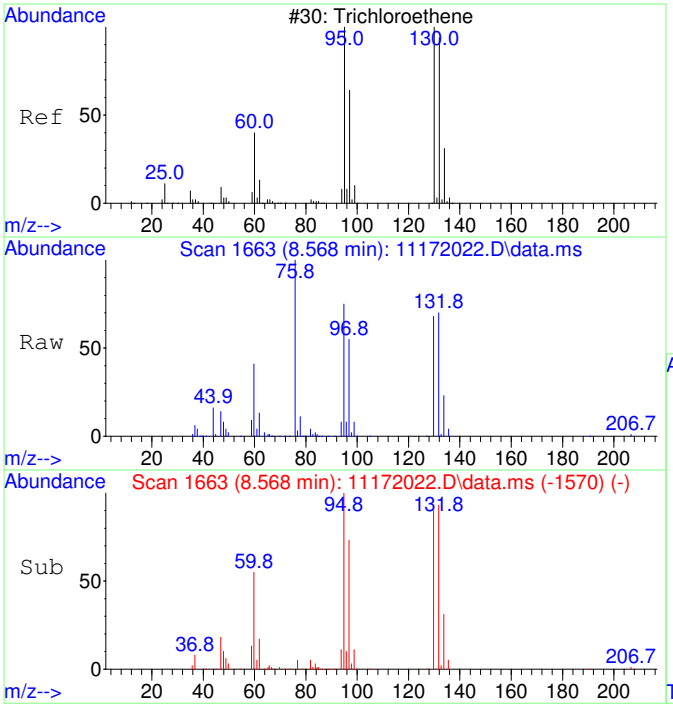


#34
1,2-Dichloroethane SCAN
Concen: 23.47 ug/L
RT: 7.562 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 62 Resp: 457

Ion	Ratio	Lower	Upper
62	100		
64	626.0	5.2	65.2#
49	41.1	3.9	63.9

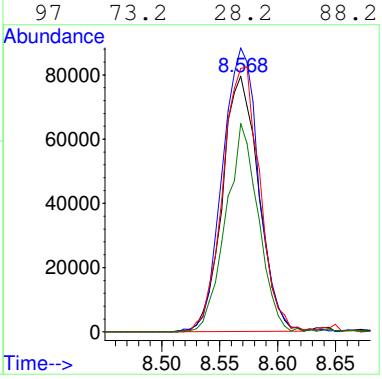


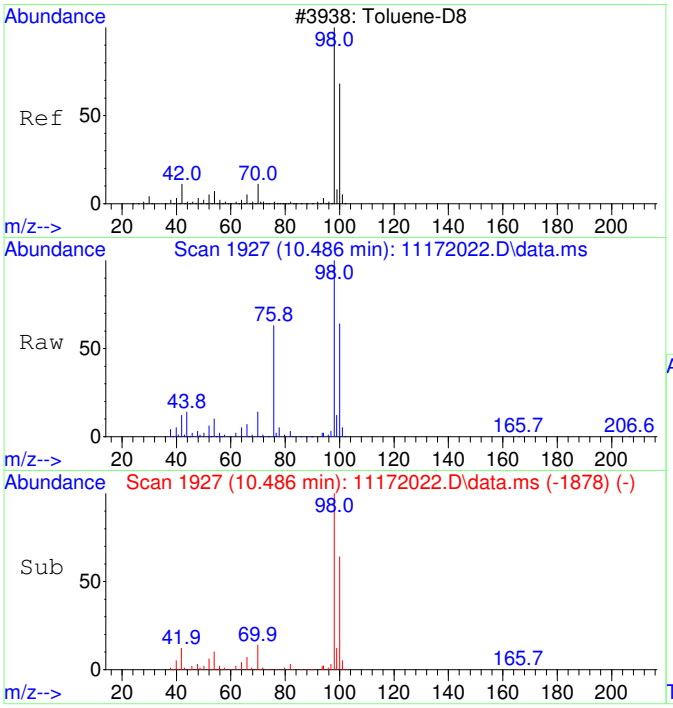


#35
Trichloroethene SCAN
Concen: 11969.24 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:130 Resp: 173473

Ion	Ratio	Lower	Upper
130	100		
95	111.1	60.5	120.5
132	105.4	59.6	119.6
97	73.2	28.2	88.2

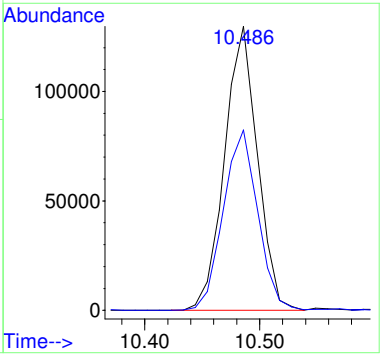


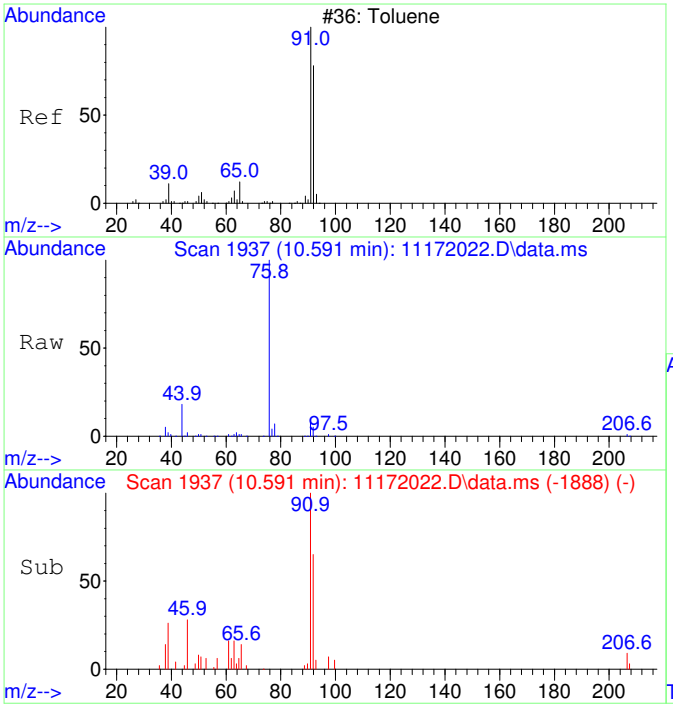


#36
Toluene-d8 SCAN
Concen: 4450.60 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 98 Resp: 258858

Ion	Ratio	Lower	Upper
98	100		
100	66.9	40.0	100.0

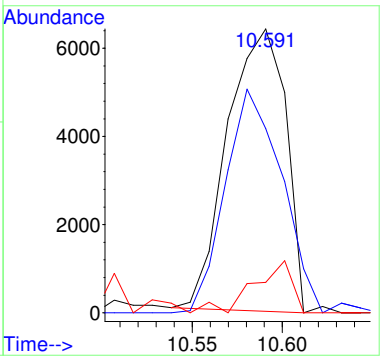


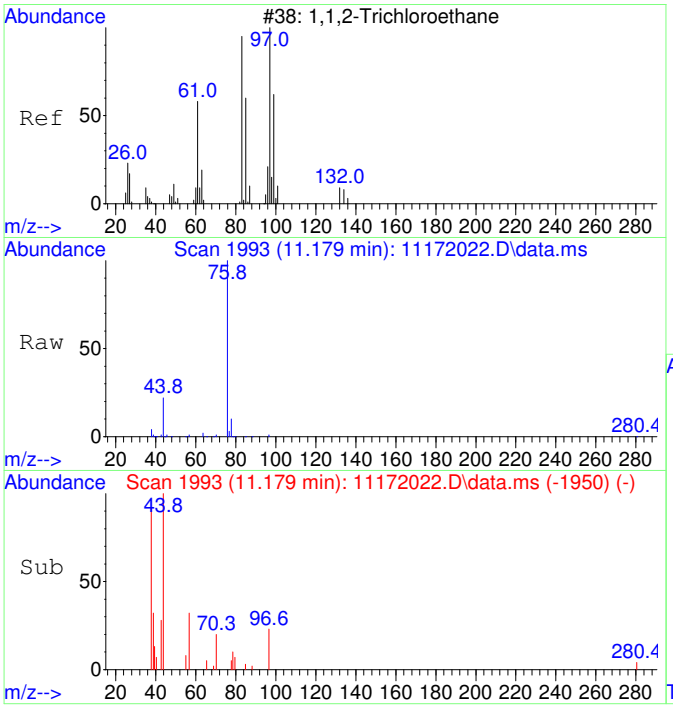


#37
Toluene SCAN
Concen: 193.06 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 14380

Ion	Ratio	Lower	Upper
91	100		
92	78.5	28.3	88.3
65	0.0	0.0	41.0

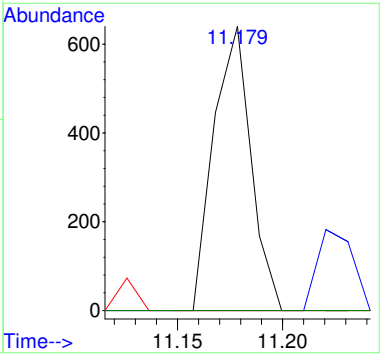


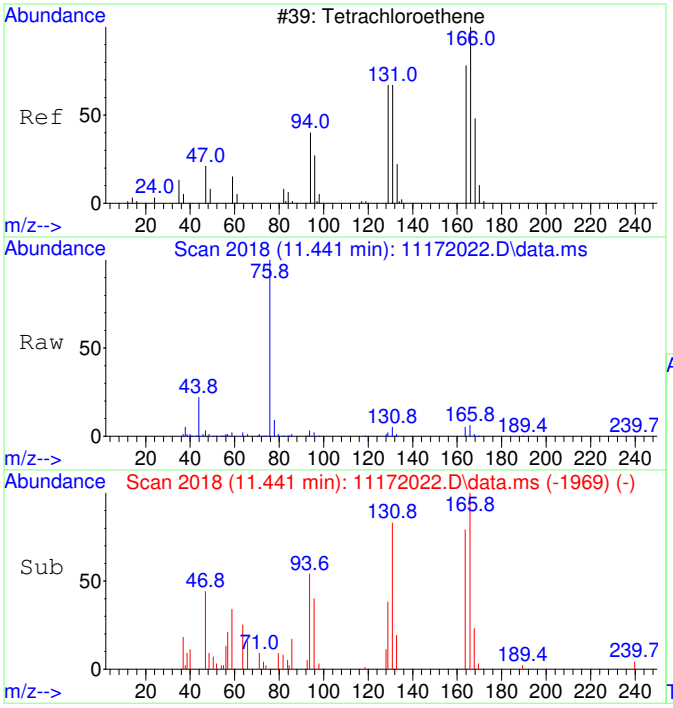


#38
1,1,2-Trichloroethane SCAN
Concen: 47.25 ug/L
RT: 11.179 min Scan# 1993
Delta R.T. -0.053 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 97 Resp: 790

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

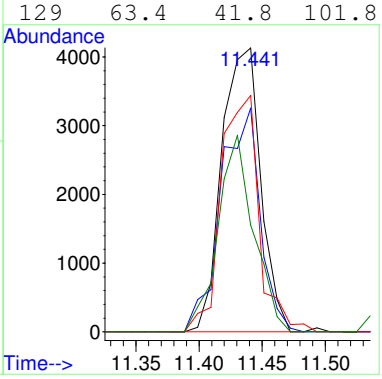


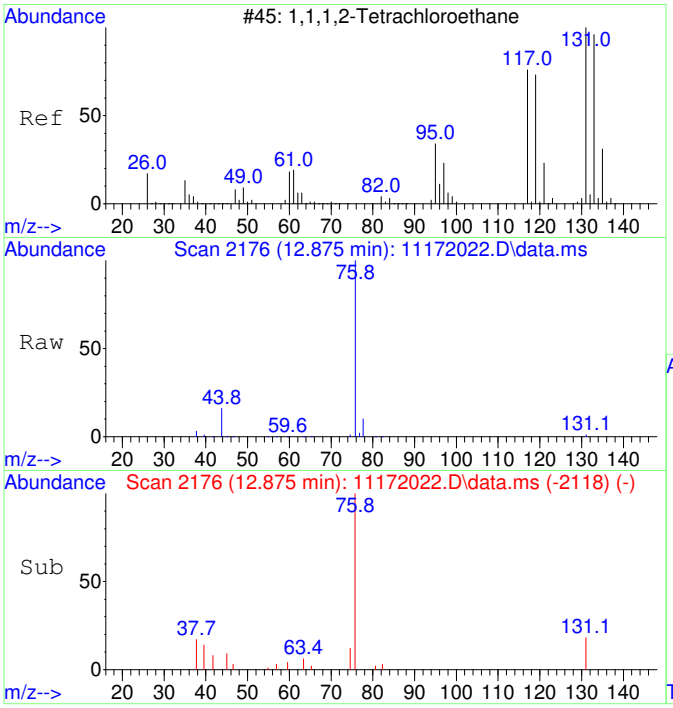


#39
Tetrachloroethene SCAN
Concen: 494.78 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:166 Resp: 8854

Ion	Ratio	Lower	Upper
166	100		
164	79.5	50.9	110.9
131	81.2	38.7	98.7
129	63.4	41.8	101.8

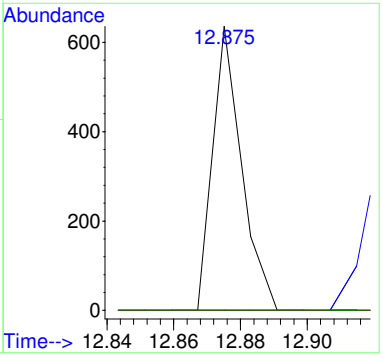


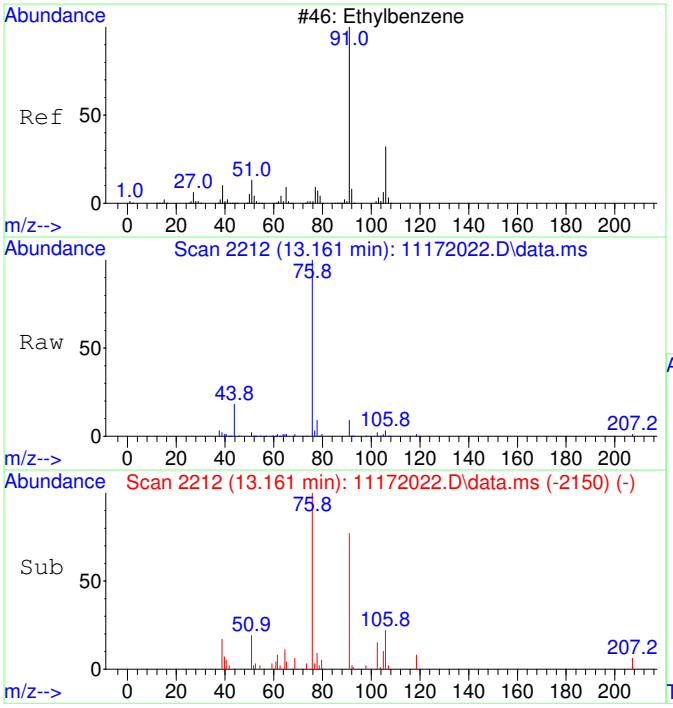


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 20.28 ug/L
RT: 12.875 min Scan# 2176
Delta R.T. -0.040 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:131 Resp: 382

Ion	Ratio	Lower	Upper
131	100		
133	0.0	66.9	126.9#
119	0.0	40.4	100.4#
117	0.0	35.1	95.1#

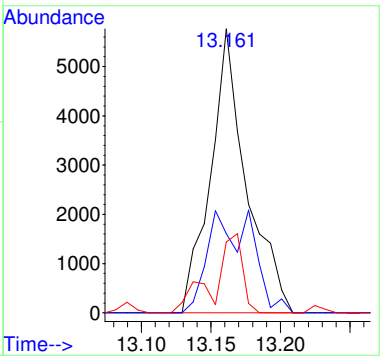


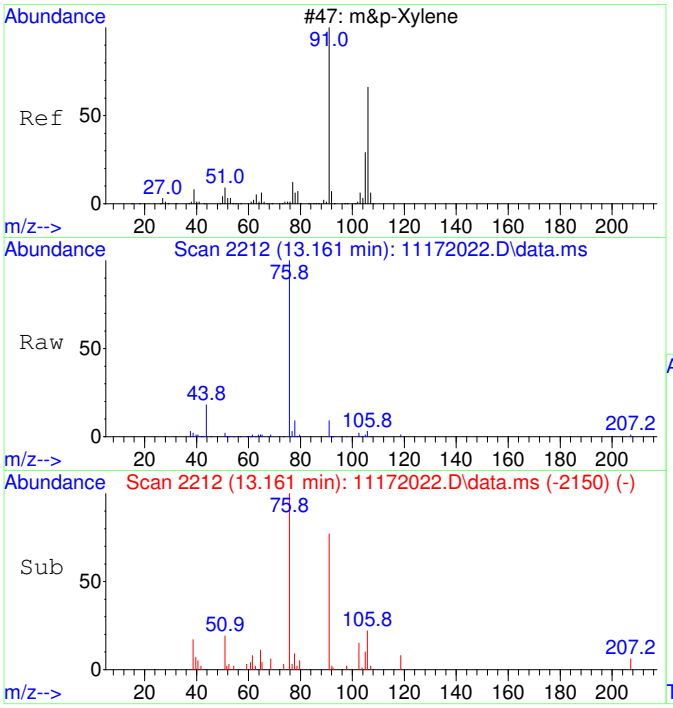


#42
Ethylbenzene SCAN
Concen: 76.40 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 10367

Ion	Ratio	Lower	Upper
91	100		
106	43.8	23.1	83.1
51	22.2	0.0	40.1

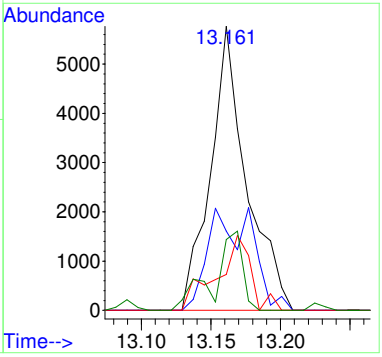


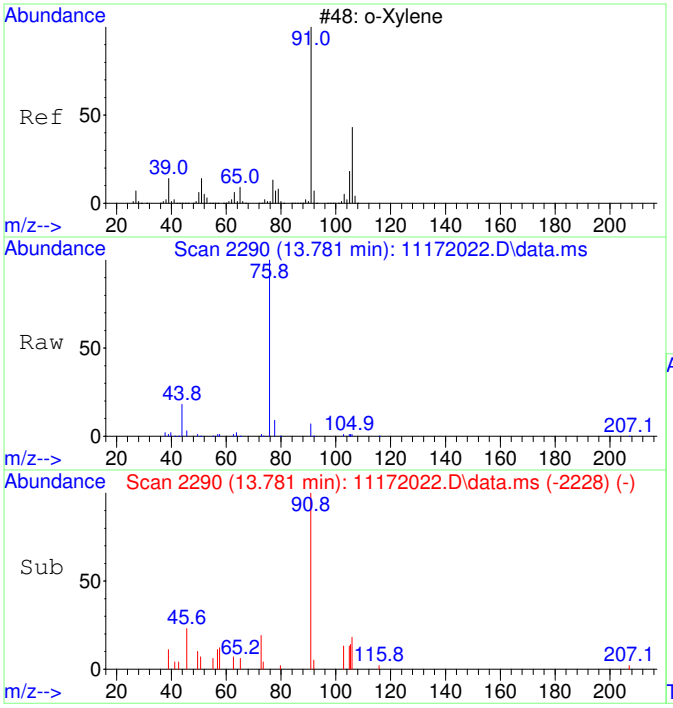


#43
m&p-Xylene SCAN
Concen: 76.40 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 10367

Ion	Ratio	Lower	Upper
91	100		
106	43.8	23.1	83.1
105	25.2	0.0	54.7
51	22.2	0.0	40.1

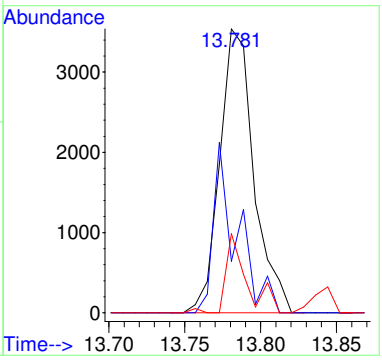


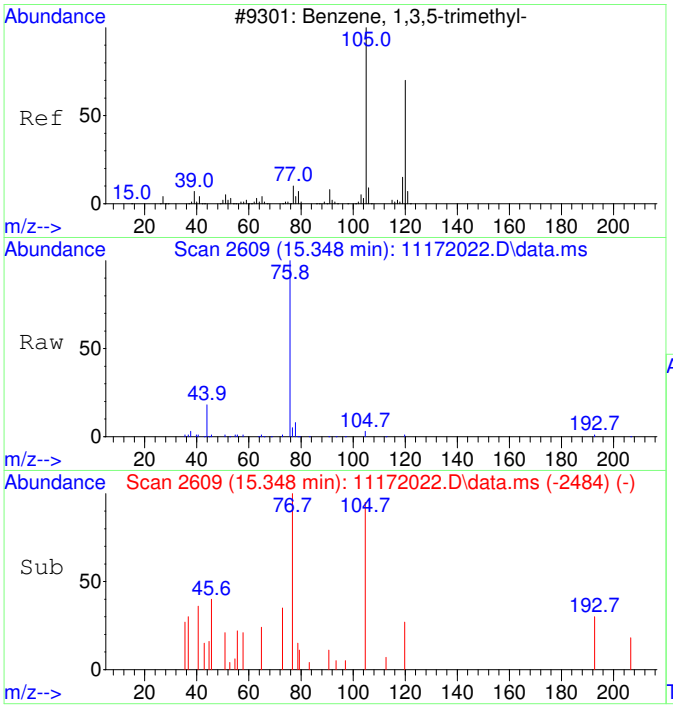


#44
o-Xylene SCAN
Concen: 76.48 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion: 91 Resp: 5555

Ion	Ratio	Lower	Upper
91	100		
106	41.6	18.0	78.0
105	16.9	0.0	56.6

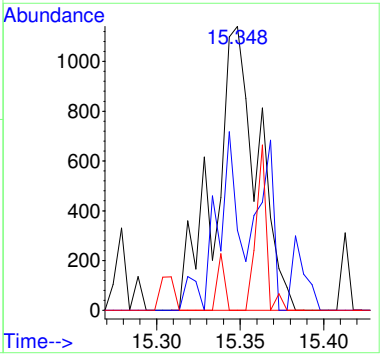


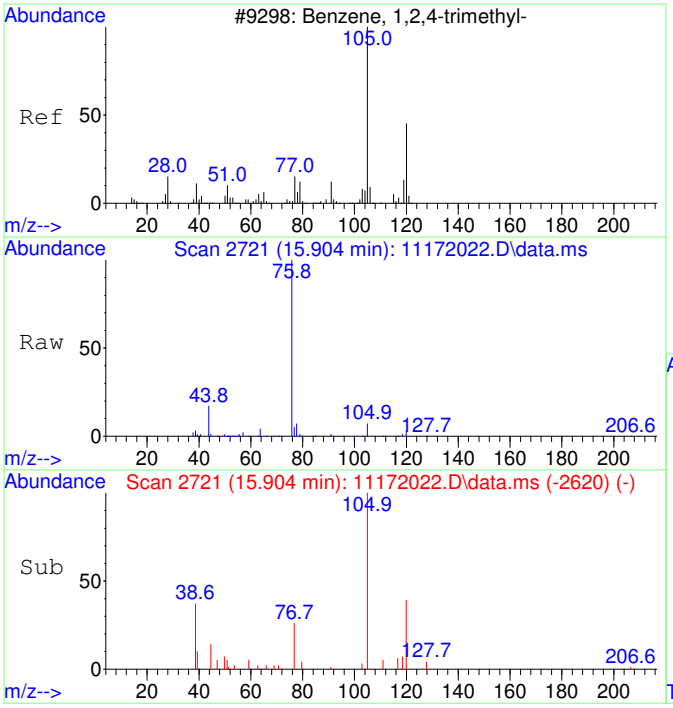


#46
1,3,5-Trimethylbenzene SCAN
Concen: 26.32 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11172022.D
Acq: 17 Nov 2020 16:11

Tgt Ion:105 Resp: 2015

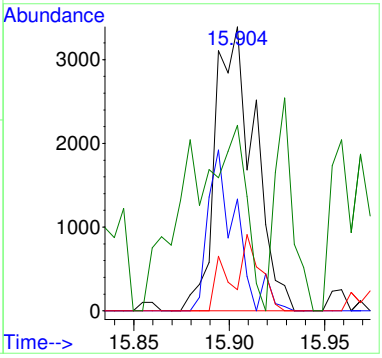
Ion	Ratio	Lower	Upper
105	100		
120	21.3	18.3	78.3
119	3.4	0.0	43.1






```
#47
1,2,4-Trimethylbenzene SCAN
Concen:   62.08 ug/L
RT:  15.904 min  Scan# 2721
Delta R.T.  -0.000 min
Lab File:   11172022.D
Acq: 17 Nov 2020  16:11

Tgt Ion:105 Resp:    4863
Ion  Ratio  Lower  Upper
105  100
120   37.1   16.9   76.9
119   19.6    0.0   41.9
 77   98.8    0.0   42.3#
```



2011017-12

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172023.D
Acq On : 17 Nov 2020 16:35
InstName : AG5975C
Operator : TD
Sample : 2011017-12
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 18 06:16:34 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

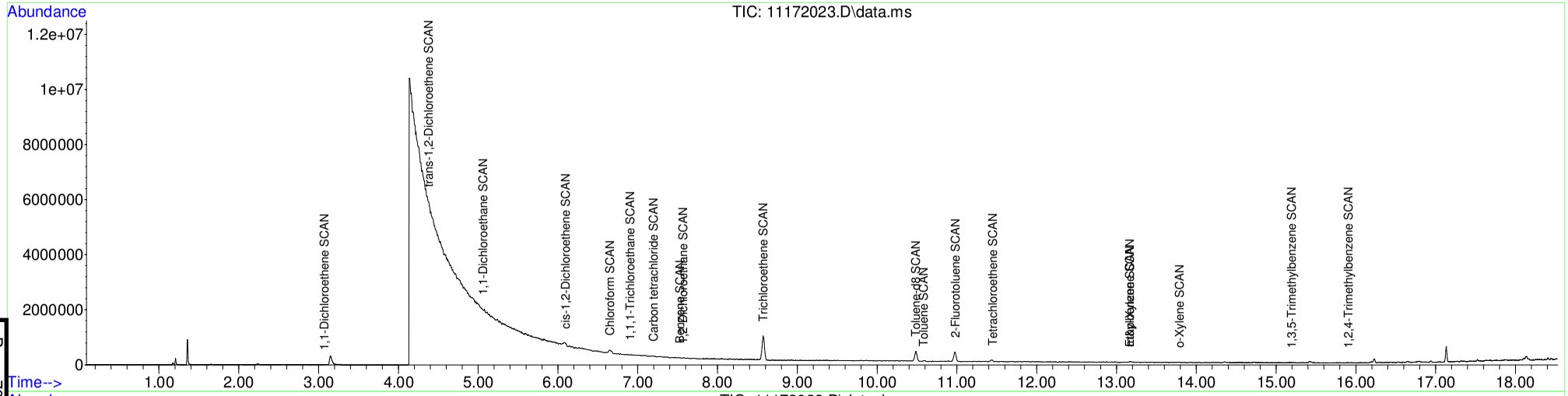
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	606596	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	520241	4381.06 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.62%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	9101	375.73 ug/L	87
3] trans-1,2-Dichloroethene	4.356	61	10549	376.94 ug/L	94
4] 1,1-Dichloroethane	5.079	63	10524	302.09 ug/L	92
5] cis-1,2-Dichloroethene	6.081	61	193498	5261.99 ug/L	99
6] Chloroform	6.652	83	210853	5602.08 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	7234	176.98 ug/L	100
8] Carbon tetrachloride	7.187	117	4529	117.72 ug/L	100
9] Benzene	7.503	78	20162	195.63 ug/L	56
10] 1,2-Dichloroethane	7.552	62	1160	31.53 ug/L #	42
11] Trichloroethene	8.575	130	668183	21532.60 ug/L	94
13] Toluene	10.582	91	39399	260.24 ug/L	98
14] 1,1,2-Trichloroethane	11.169	97	812	24.61 ug/L #	21
15] Tetrachloroethene	11.432	166	32180	734.49 ug/L	99
18] Ethylbenzene	12.972	91	12531	68.00 ug/L	95
19] m&p-Xylene	13.162	91	27625	191.81 ug/L	94
20] o-Xylene	13.782	91	11152	72.48 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	10847	63.76 ug/L	92
25) 2-Fluorotoluene SCAN	10.979	109	288098	4872.12 ug/L	99
26) 1,1-Dichloroethene SCAN	3.074	61	1193	95.00 ug/L #	63
27) trans-1,2-Dichloroethe...	4.375	61	5904	379.93 ug/L	83
28) 1,1-Dichloroethane SCAN	5.058	63	2516	139.90 ug/L #	84
29) cis-1,2-Dichloroethene...	6.093	61	110987	5760.14 ug/L #	79
30) Chloroform SCAN	6.650	83	117085	5602.43 ug/L	95
31) 1,1,1-Trichloroethane ...	6.906	97	4381	230.04 ug/L	92
32) Carbon tetrachloride SCAN	7.198	117	1636	82.35 ug/L #	22
33) Benzene SCAN	7.526	78	24227	462.02 ug/L	97
34) 1,2-Dichloroethane SCAN	7.563	62	589	30.42 ug/L #	52
35) Trichloroethene SCAN	8.574	130	301385	20914.72 ug/L	83
36) Toluene-d8 SCAN	10.486	98	258334	4467.19 ug/L	94
37) Toluene SCAN	10.580	91	21437	289.46 ug/L	96
39) Tetrachloroethene SCAN	11.441	166	15091	848.17 ug/L	88
42) Ethylbenzene SCAN	13.169	91	16397	121.53 ug/L	80
43) m&p-Xylene SCAN	13.169	91	16397	121.53 ug/L	83
44) o-Xylene SCAN	13.789	91	5065	70.13 ug/L	74
46) 1,3,5-Trimethylbenzene...	15.198	105	4591	60.32 ug/L	78
47) 1,2,4-Trimethylbenzene...	15.904	105	6185	79.42 ug/L #	84

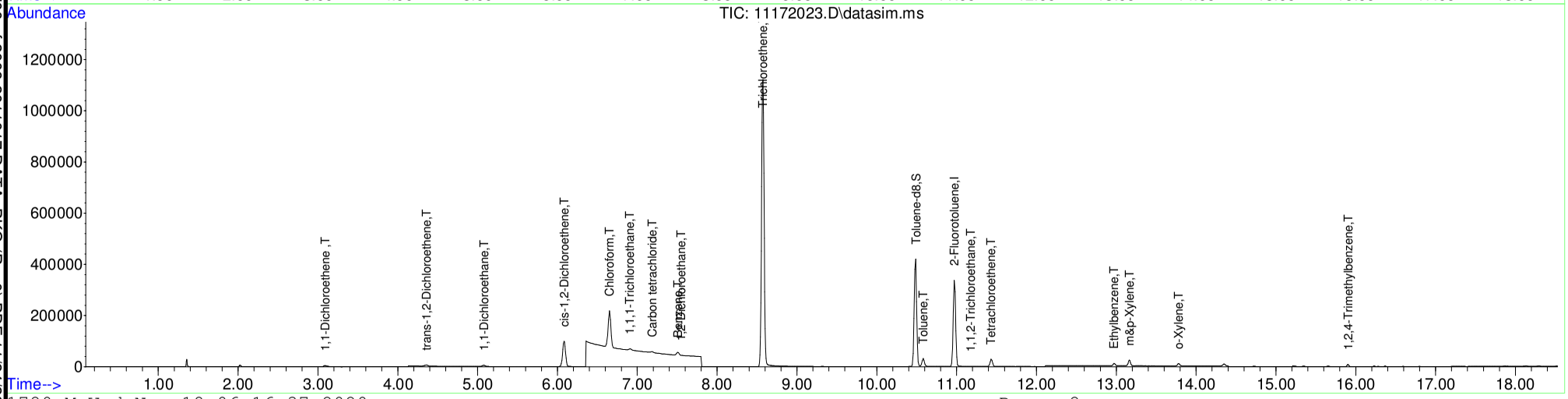
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172023.D
Acq On : 17 Nov 2020 16:35
InstName : AG5975C
Operator : TD
Sample : 2011017-12
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 18 06:16:34 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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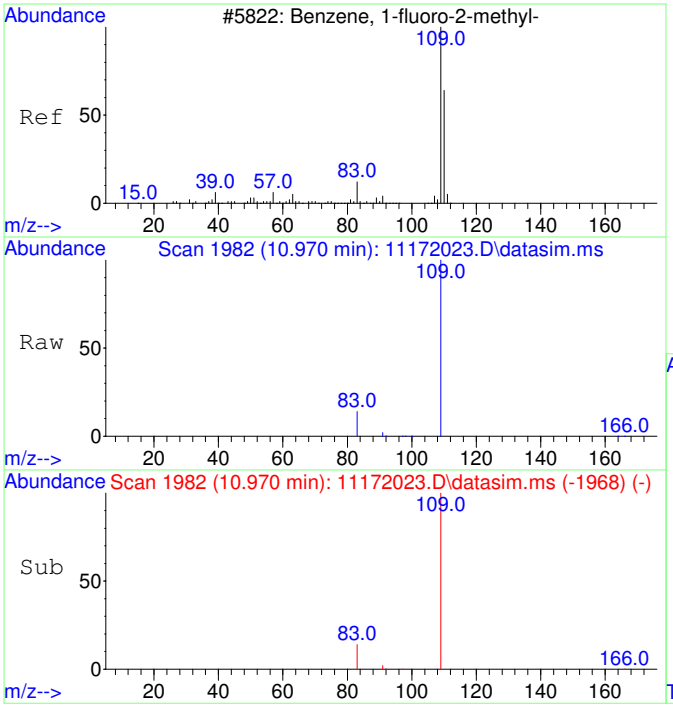
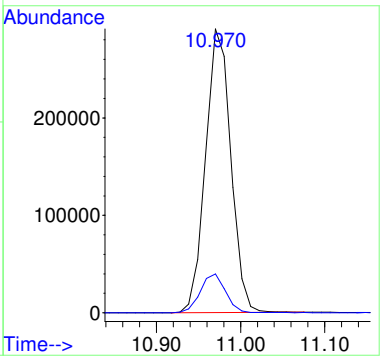
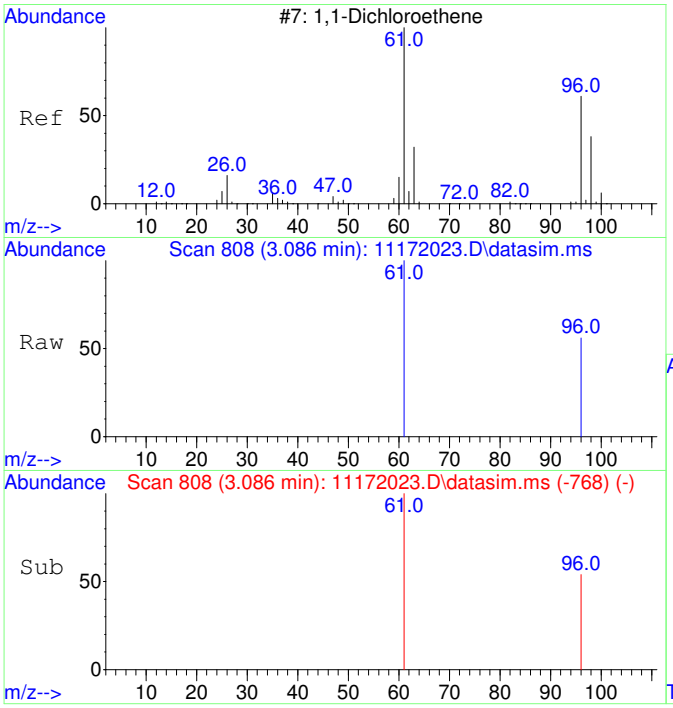


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:109 Resp: 606596

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

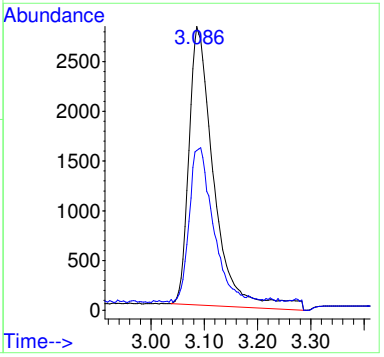




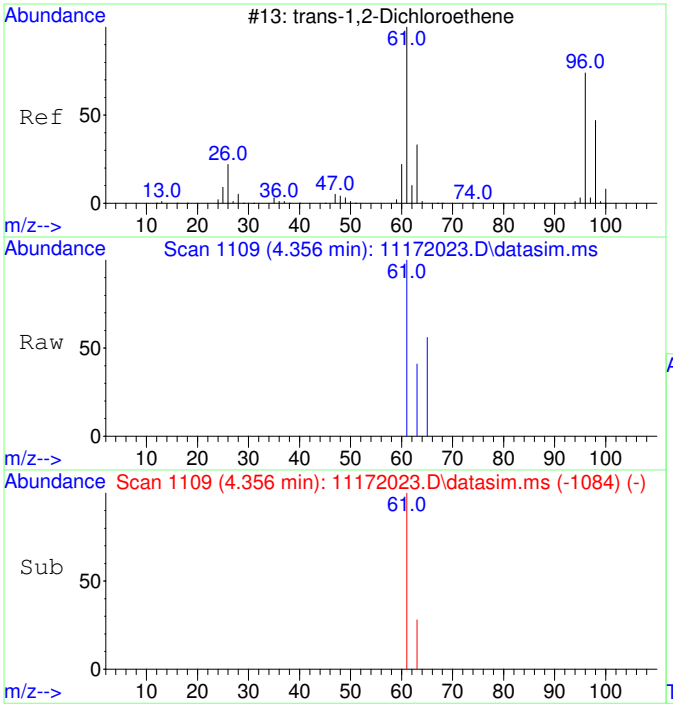
#2
1,1-Dichloroethene
Concen: 375.73 ug/L
RT: 3.086 min Scan# 808
Delta R.T. 0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 61 Resp: 9101

Ion	Ratio	Lower	Upper
61	100		
96	56.7	37.2	97.2



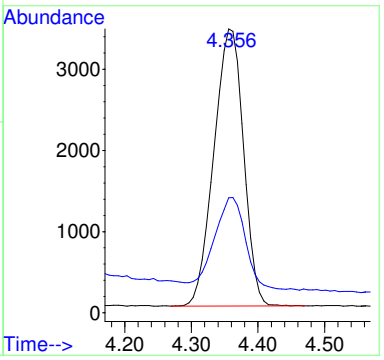
Before MI:
IMPROPER
BASELINE

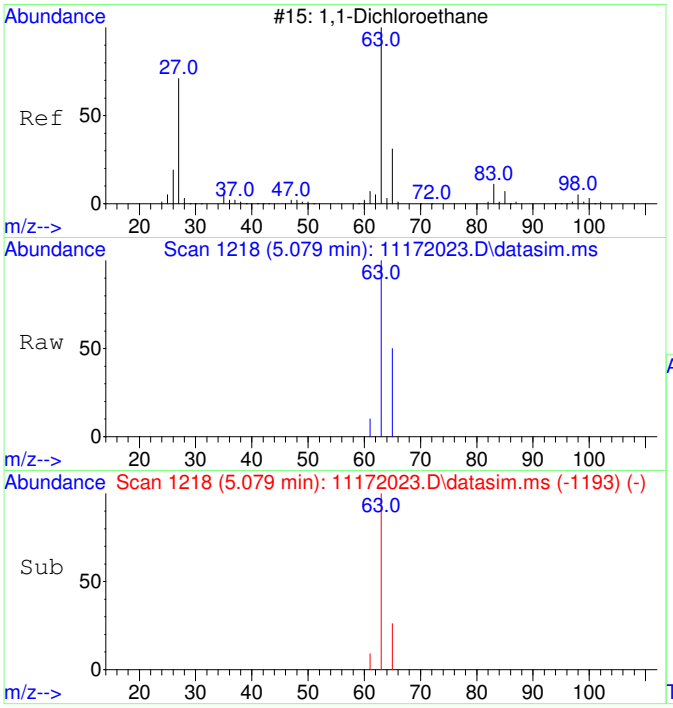


#3
trans-1,2-Dichloroethene
Concen: 376.94 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 61 Resp: 10549

Ion	Ratio	Lower	Upper
61	100		
63	35.8	2.4	62.4

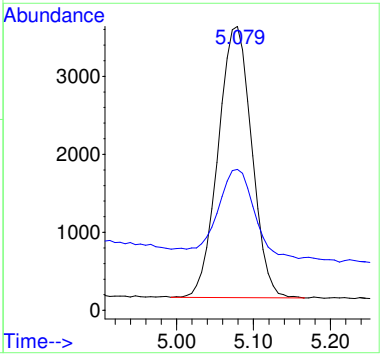


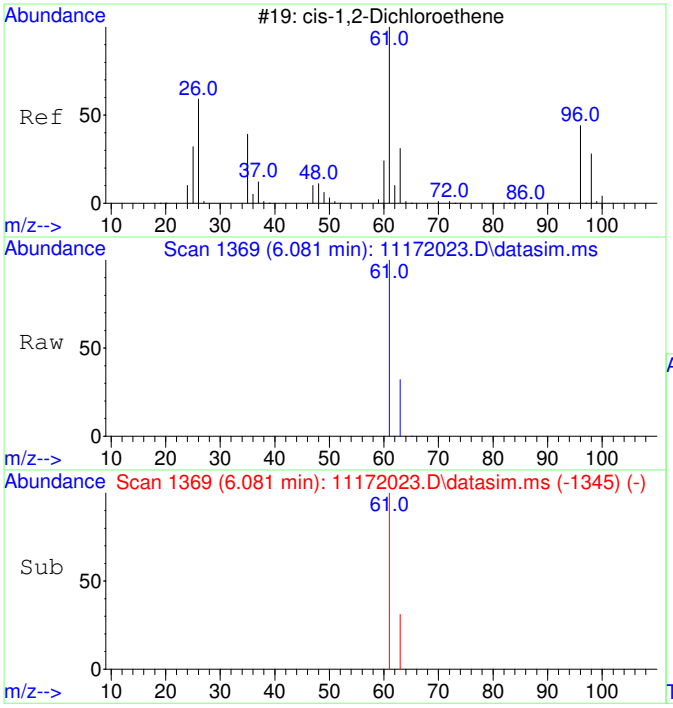


#4
1,1-Dichloroethane
Concen: 302.09 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 63 Resp: 10524

Ion	Ratio	Lower	Upper
63	100		
65	36.0	1.8	61.8

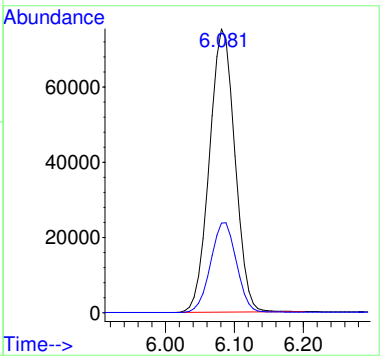


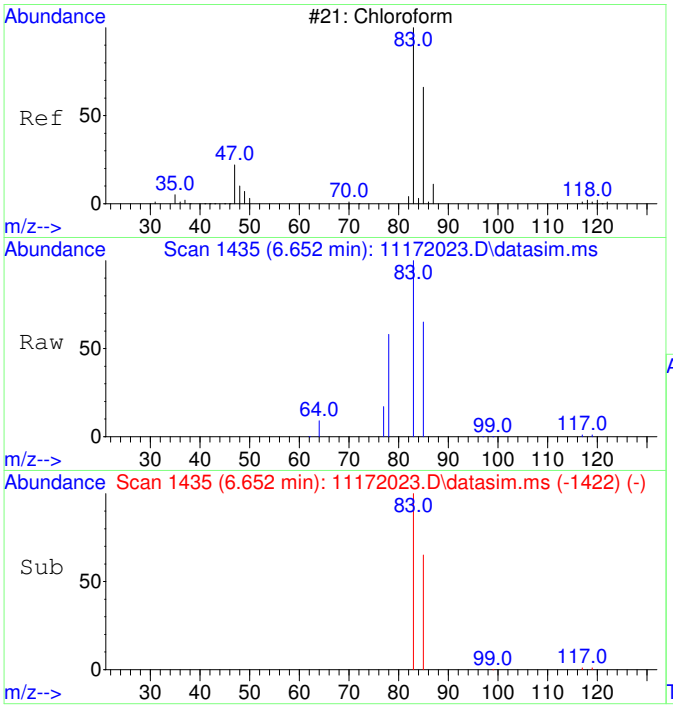


#5
cis-1,2-Dichloroethene
Concen: 5261.99 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 61 Resp: 193498

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

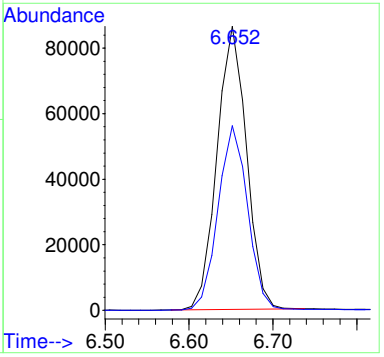


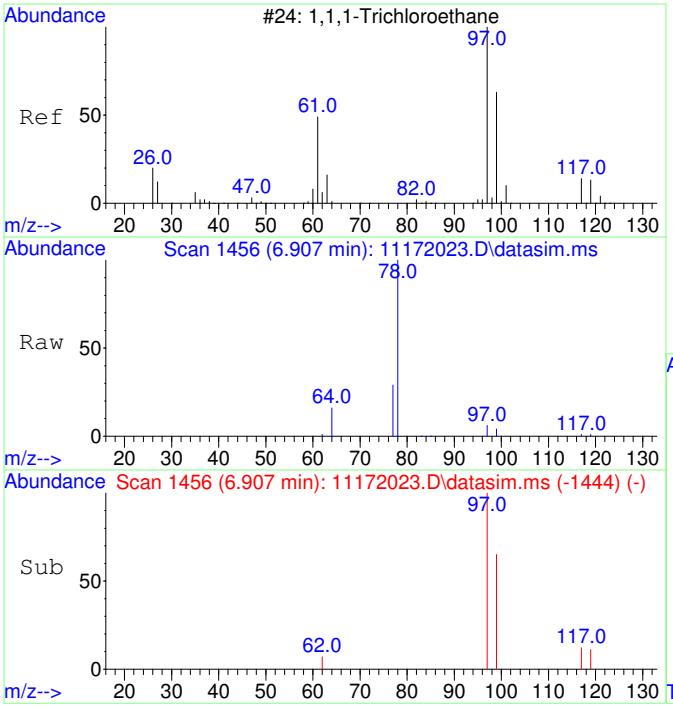


#6
Chloroform
Concen: 5602.08 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 83 Resp: 210853

Ion	Ratio	Lower	Upper
83	100		
85	64.8	35.1	95.1

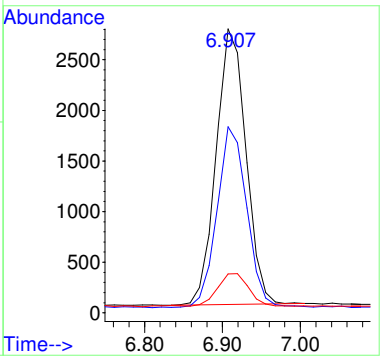


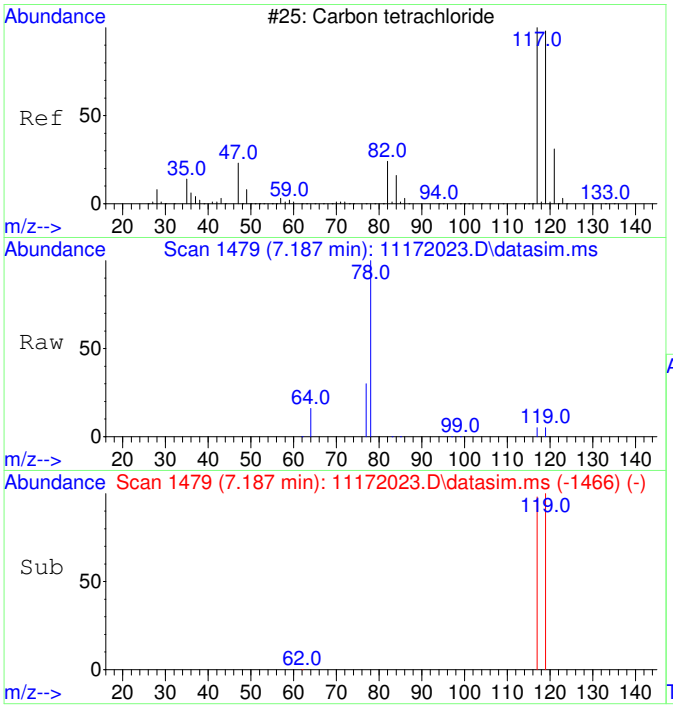


#7
1,1,1-Trichloroethane
Concen: 176.98 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 97 Resp: 7234

Ion	Ratio	Lower	Upper
97	100		
99	65.0	34.6	94.6
117	13.3	0.0	43.2

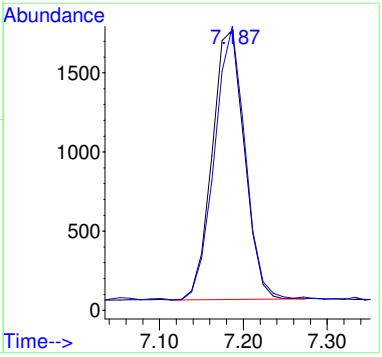


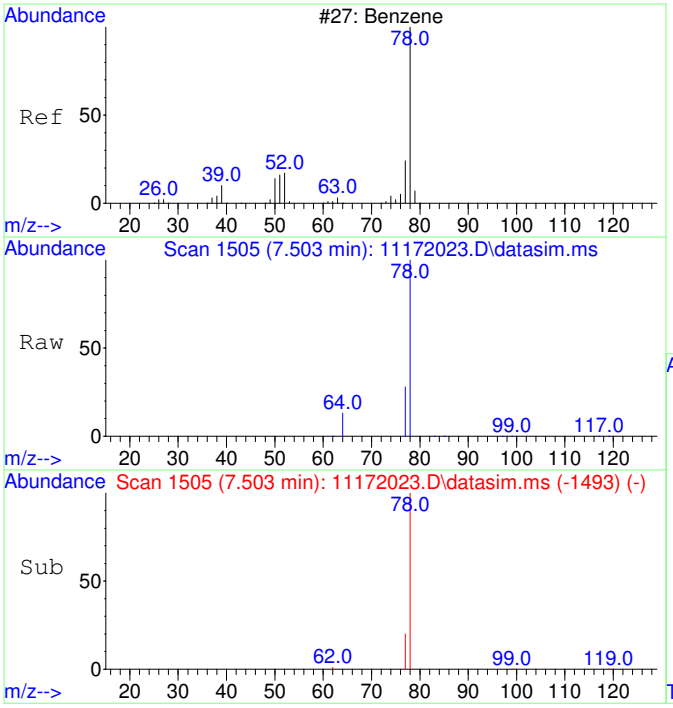


#8
Carbon tetrachloride
Concen: 117.72 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:117 Resp: 4529

Ion	Ratio	Lower	Upper
117	100		
119	95.9	66.4	126.4

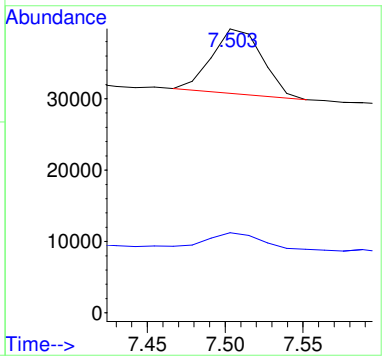


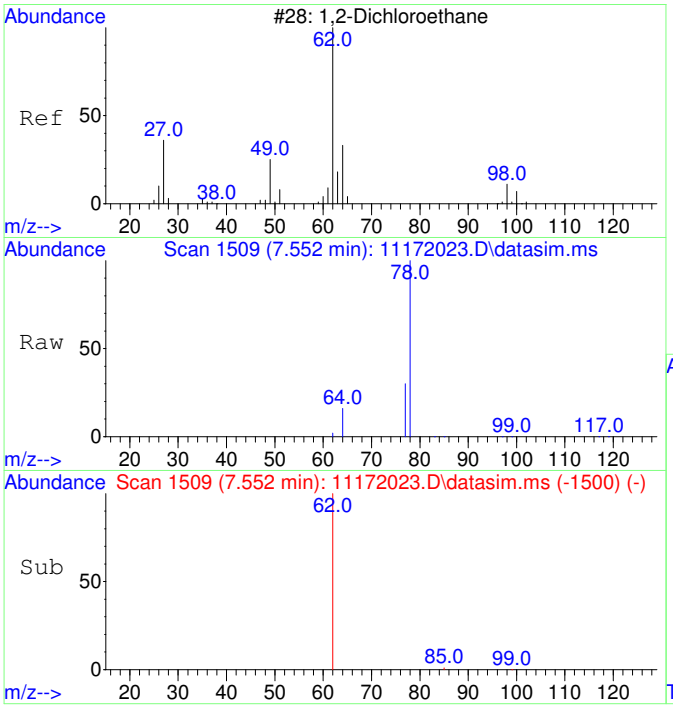


#9
Benzene
Concen: 195.63 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 78 Resp: 20162

Ion	Ratio	Lower	Upper
78	100		
77	44.8	0.0	53.2

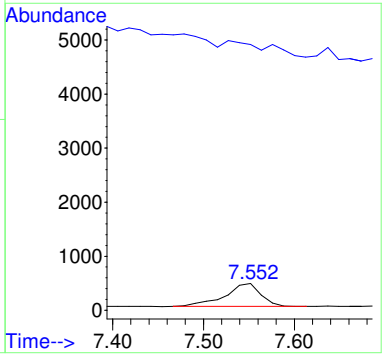


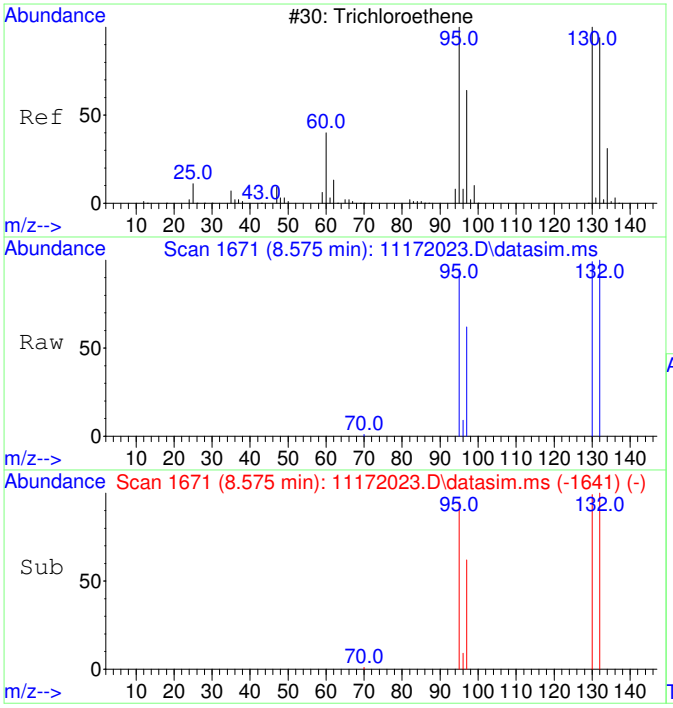


#10
1,2-Dichloroethane
Concen: 31.53 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 62 Resp: 1160

Ion	Ratio	Lower	Upper
62	100		
64	0.0	2.3	62.3#

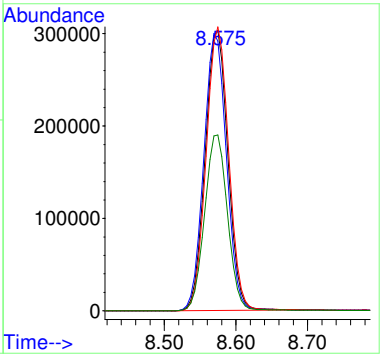


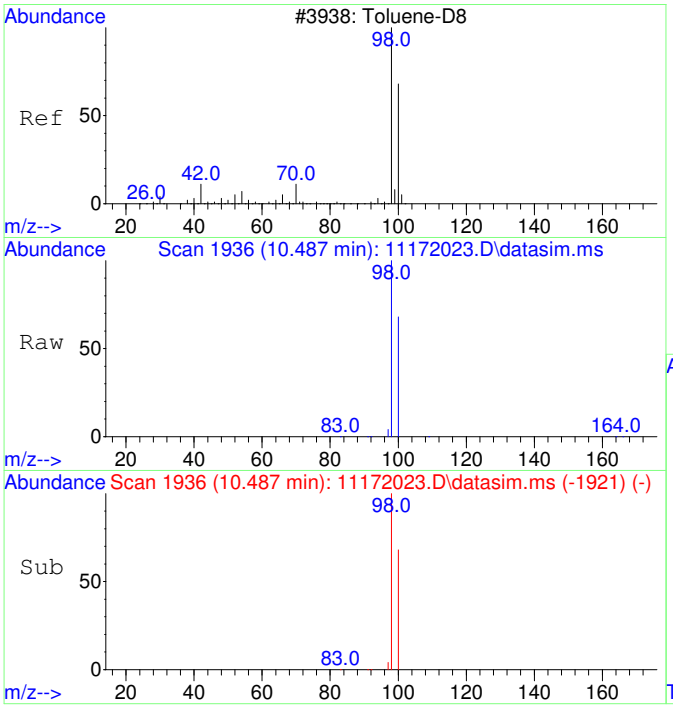


#11
Trichloroethene
Concen: 21532.60 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:130 Resp: 668183

Ion	Ratio	Lower	Upper
130	100		
95	98.3	60.7	120.7
132	100.1	76.0	116.0
97	63.0	38.6	78.6

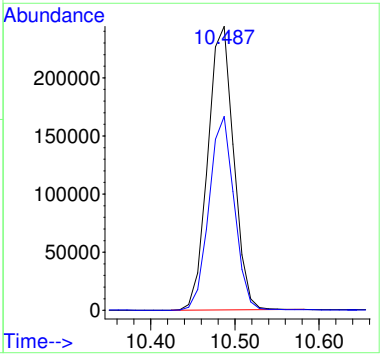


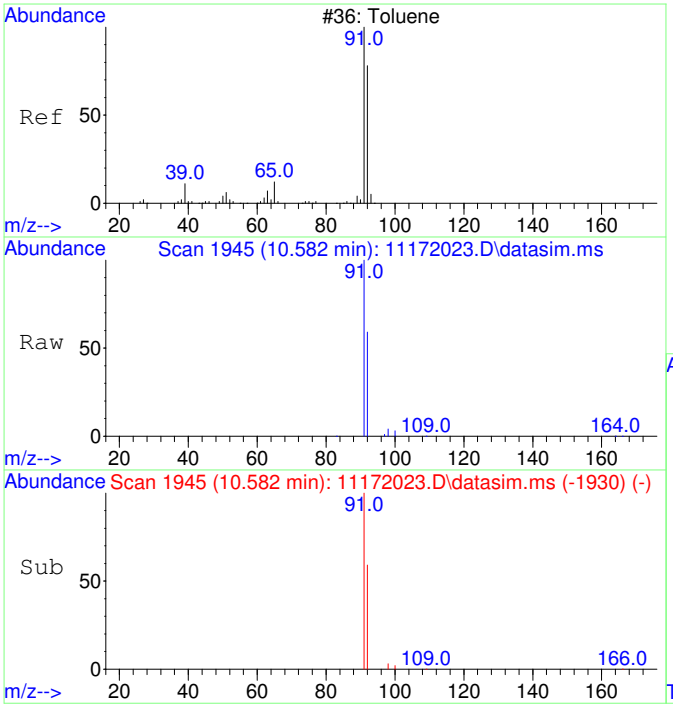


#12
Toluene-d8
Concen: 4381.06 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 98 Resp: 520241

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

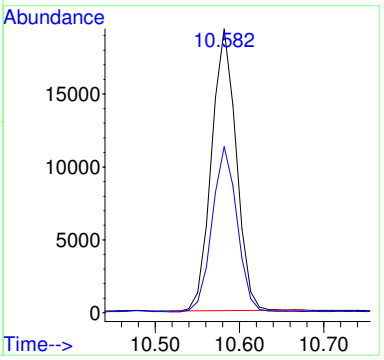


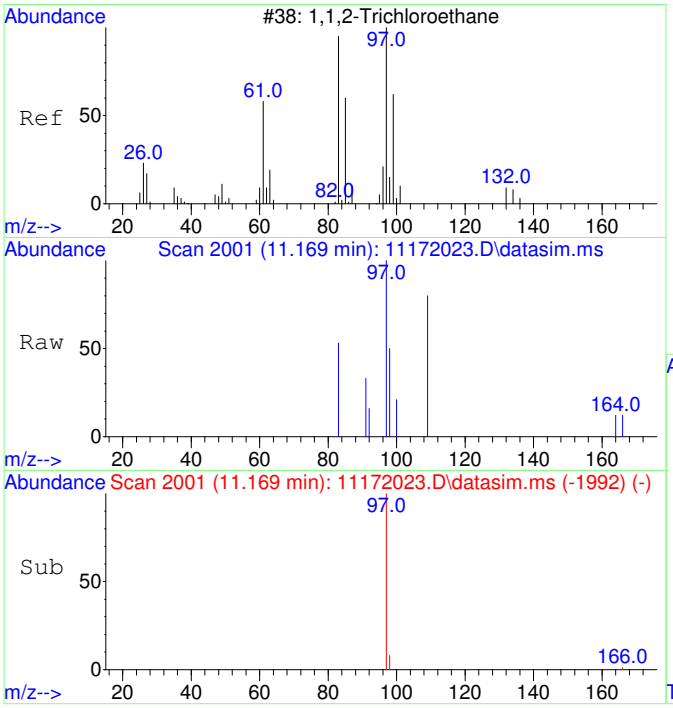


#13
Toluene
Concen: 260.24 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 39399

Ion	Ratio	Lower	Upper
91	100		
92	58.8	29.9	89.9

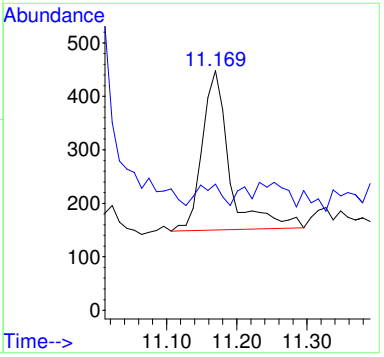




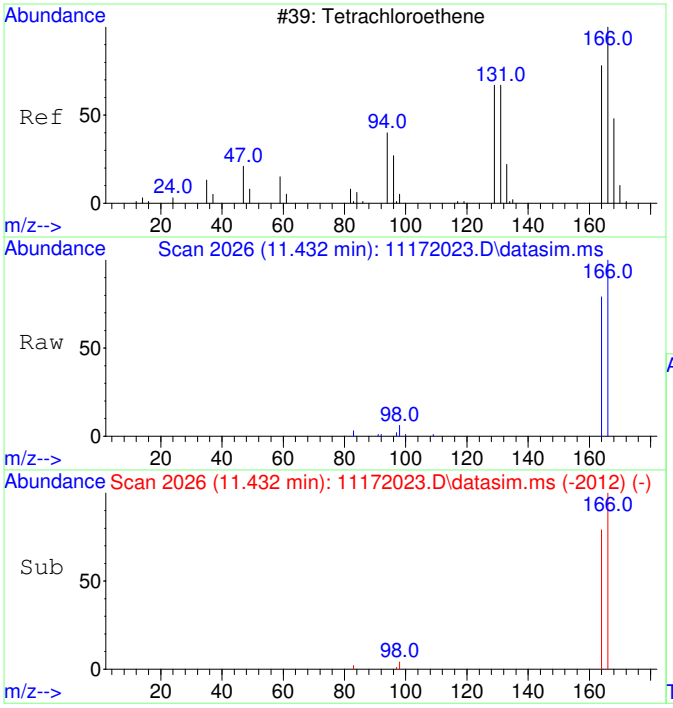
#14
1,1,2-Trichloroethane
Concen: 24.61 ug/L
RT: 11.169 min Scan# 2001
Delta R.T. -0.053 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 97 Resp: 812

Ion	Ratio	Lower	Upper
97	100		
83	10.8	51.2	111.2#



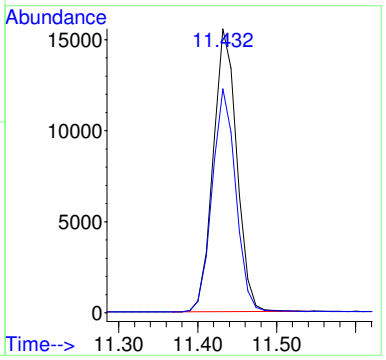
NT

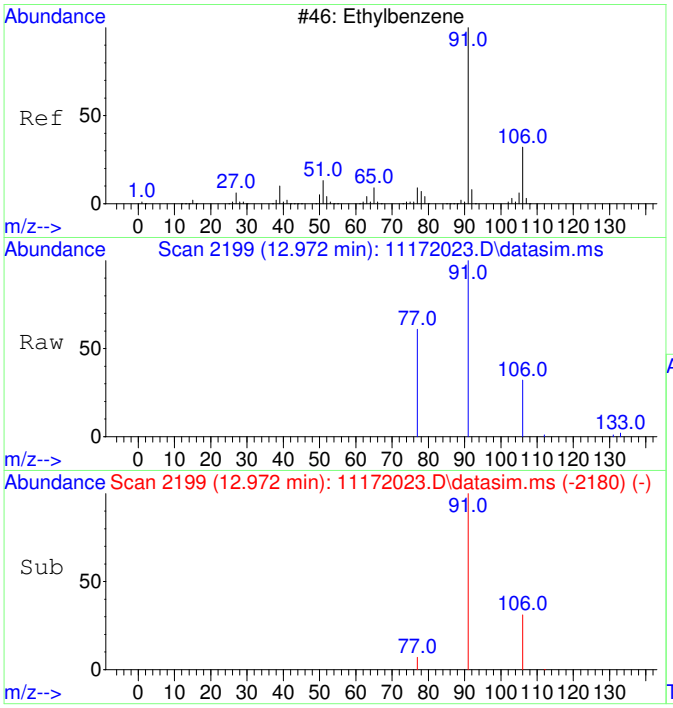


#15
Tetrachloroethene
Concen: 734.49 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:166 Resp: 32180

Ion	Ratio	Lower	Upper
166	100		
164	78.5	47.8	107.8

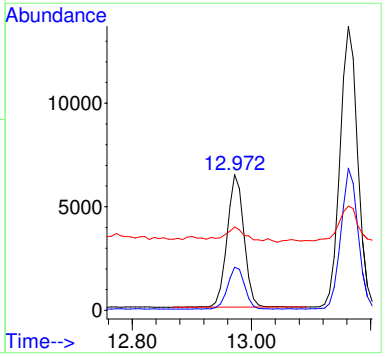


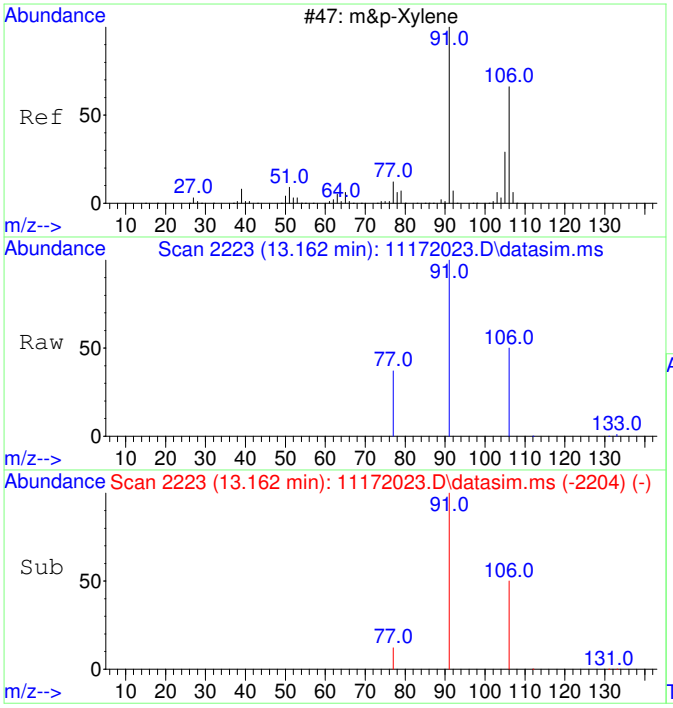


#18
Ethylbenzene
Concen: 68.00 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 12531

Ion	Ratio	Lower	Upper
91	100		
106	32.3	3.0	63.0
77	15.9	0.0	38.2

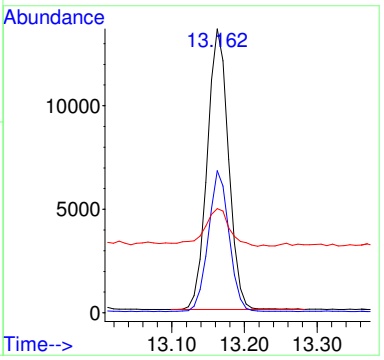


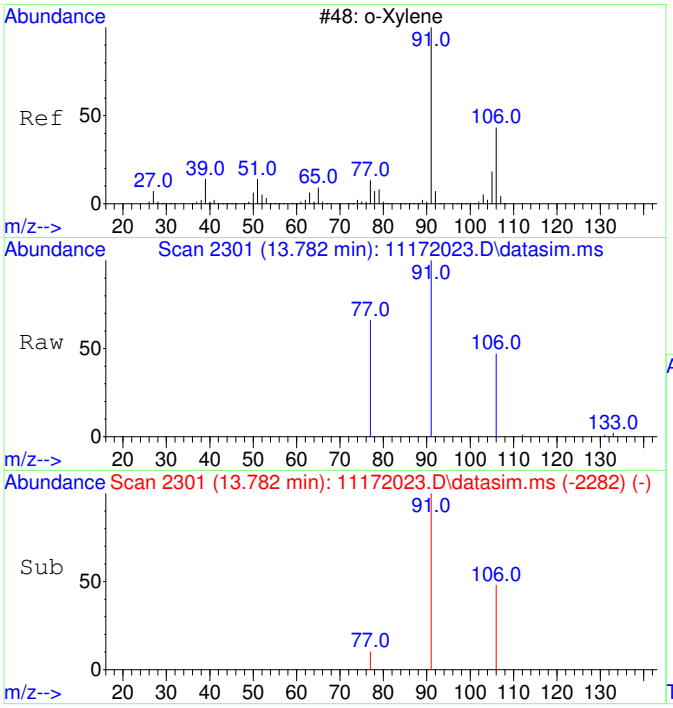


#19
m&p-Xylene
Concen: 191.81 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 27625

Ion	Ratio	Lower	Upper
91	100		
106	49.0	22.2	82.2
77	16.5	0.0	42.4

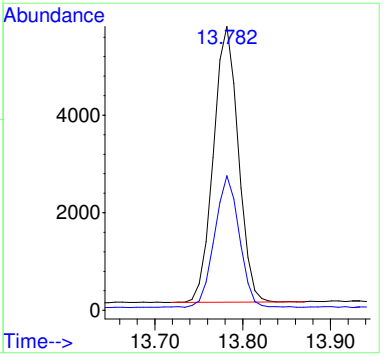


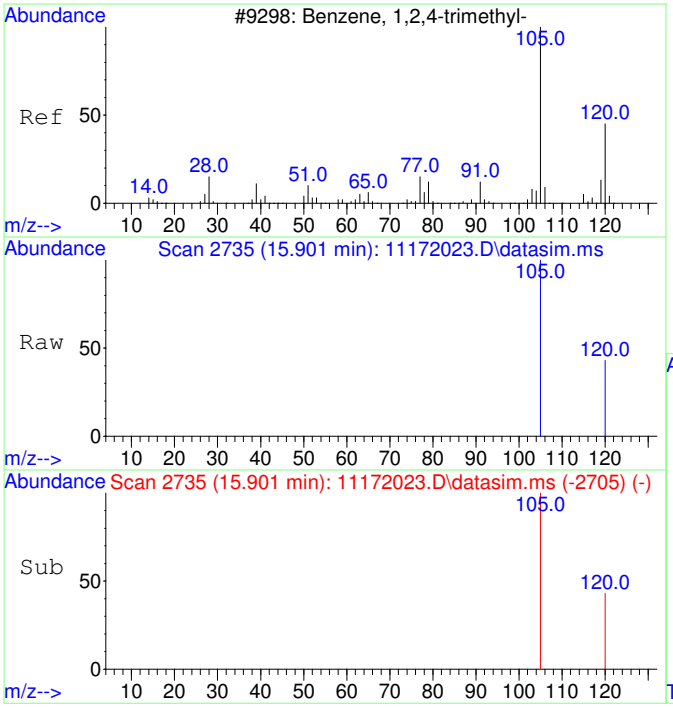


#20
o-Xylene
Concen: 72.48 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 11152

Ion	Ratio	Lower	Upper
91	100		
106	47.2	19.2	79.2

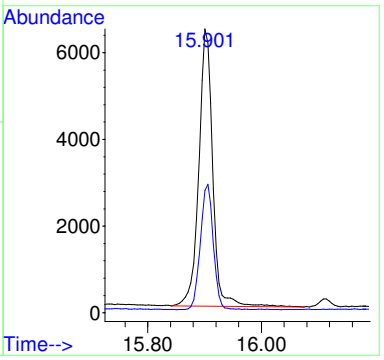


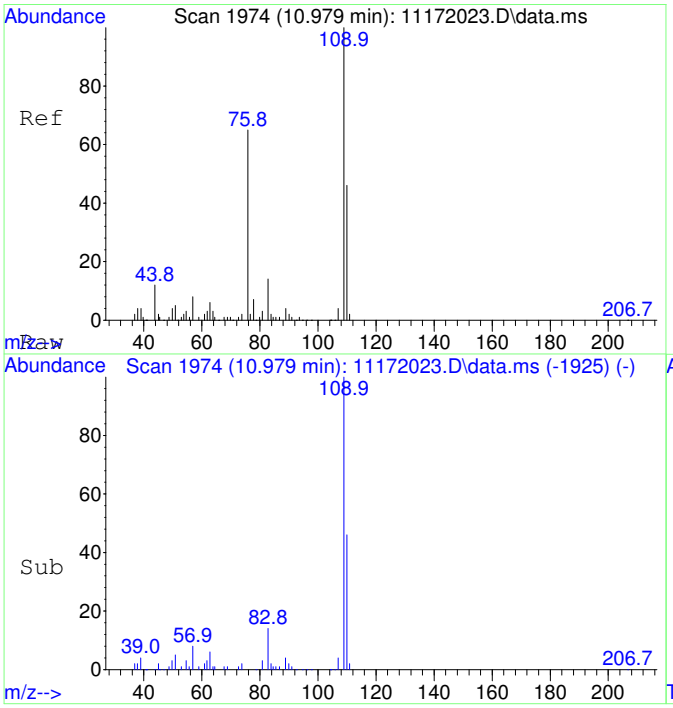


#23
1,2,4-Trimethylbenzene
Concen: 63.76 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:105 Resp: 10847

Ion	Ratio	Lower	Upper
105	100		
120	41.8	17.2	77.2

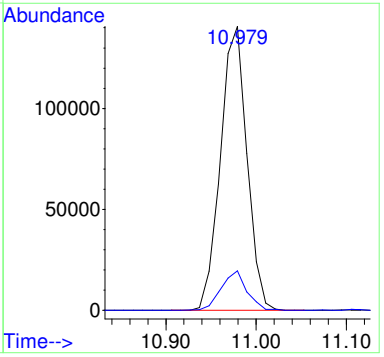


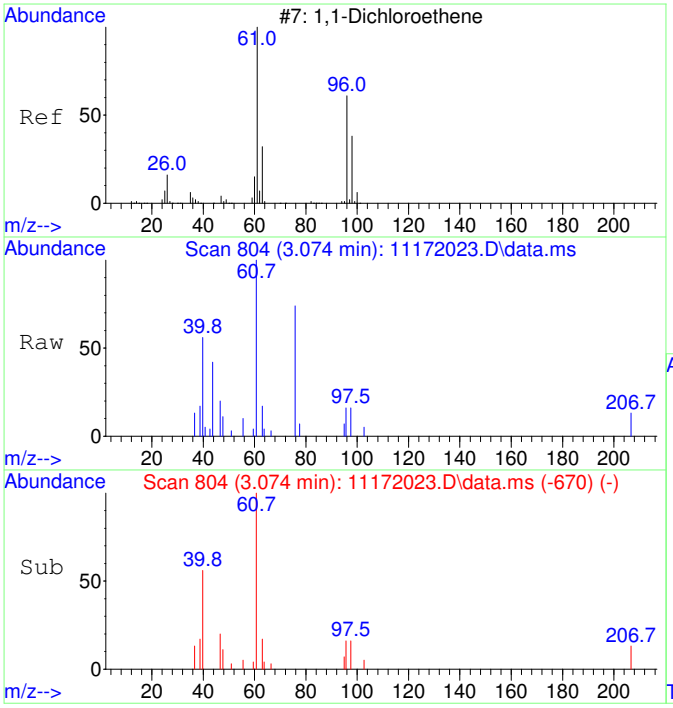


#25
2-Fluorotoluene SCAN
Concen: 4872.12 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:109 Resp: 288098

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	43.8

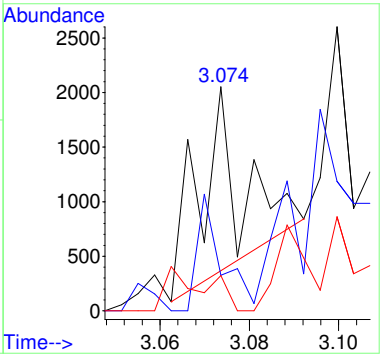


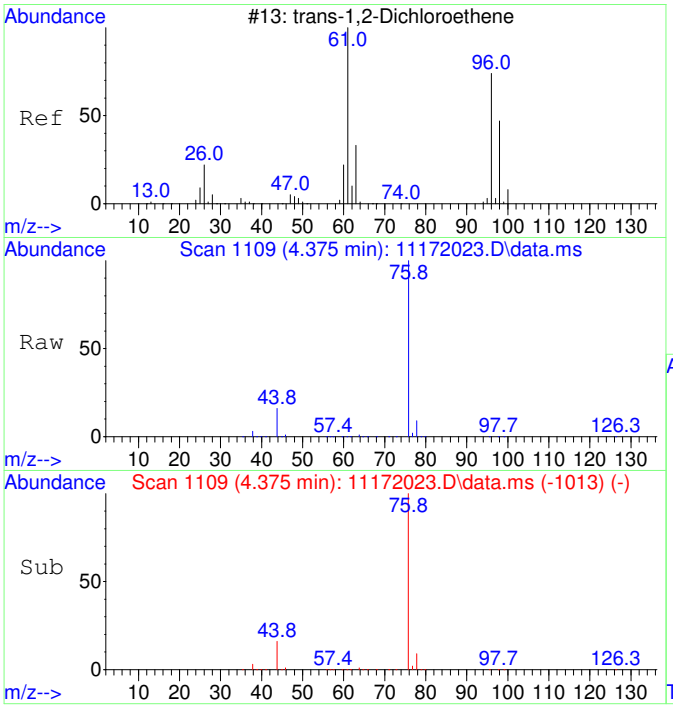


#26
1,1-Dichloroethene SCAN
Concen: 95.00 ug/L
RT: 3.074 min Scan# 804
Delta R.T. -0.004 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 61 Resp: 1193

Ion	Ratio	Lower	Upper
61	100		
96	31.9	33.1	93.1#
98	20.5	11.2	71.2

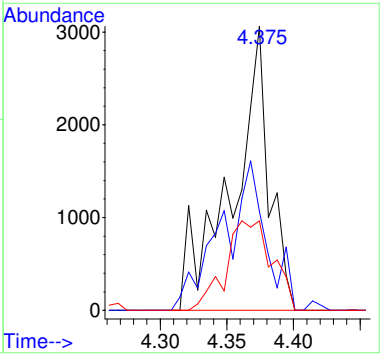


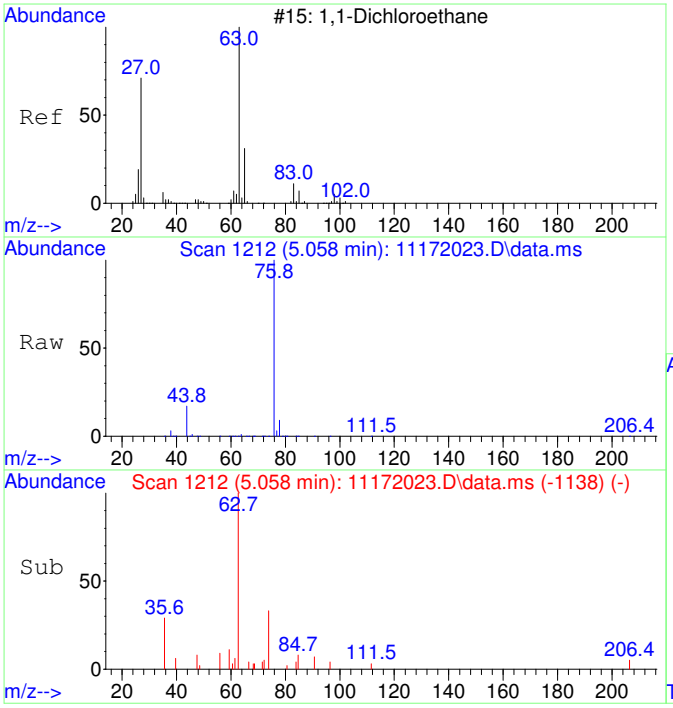


#27
trans-1,2-Dichloroethene SCAN
Concen: 379.93 ug/L
RT: 4.375 min Scan# 1109
Delta R.T. 0.026 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 61 Resp: 5904

Ion	Ratio	Lower	Upper
61	100		
96	63.0	49.0	109.0
98	39.5	20.5	80.5

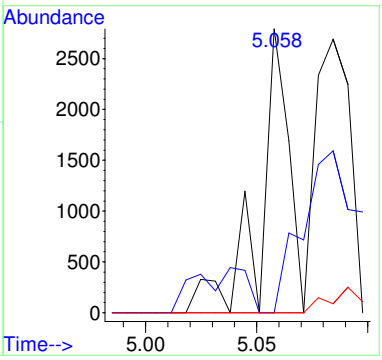


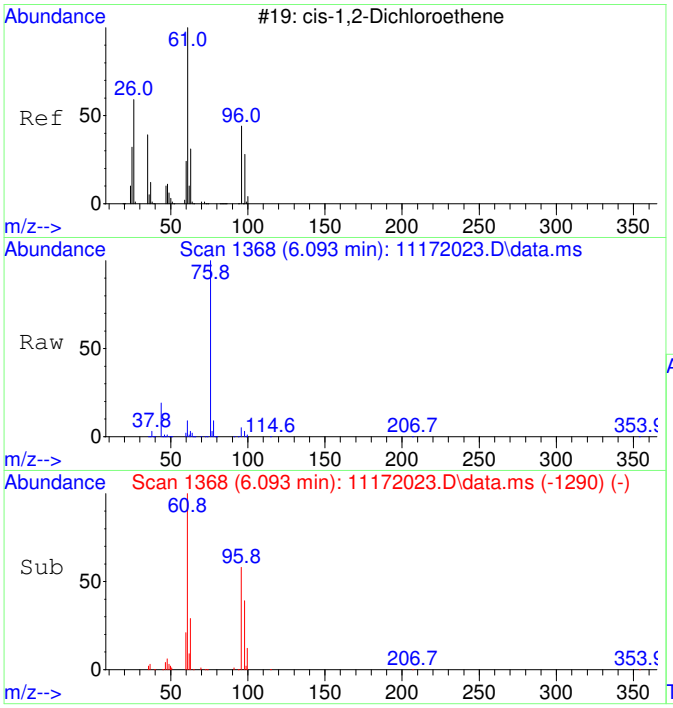


#28
1,1-Dichloroethane SCAN
Concen: 139.90 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.007 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 63 Resp: 2516

Ion	Ratio	Lower	Upper
63	100		
65	28.1	1.3	61.3
83	0.0	0.0	45.9

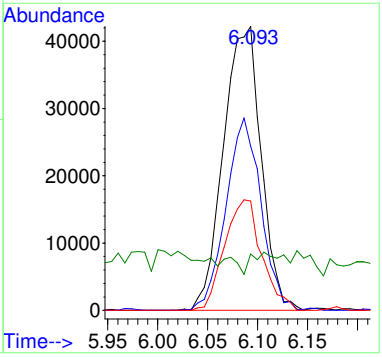


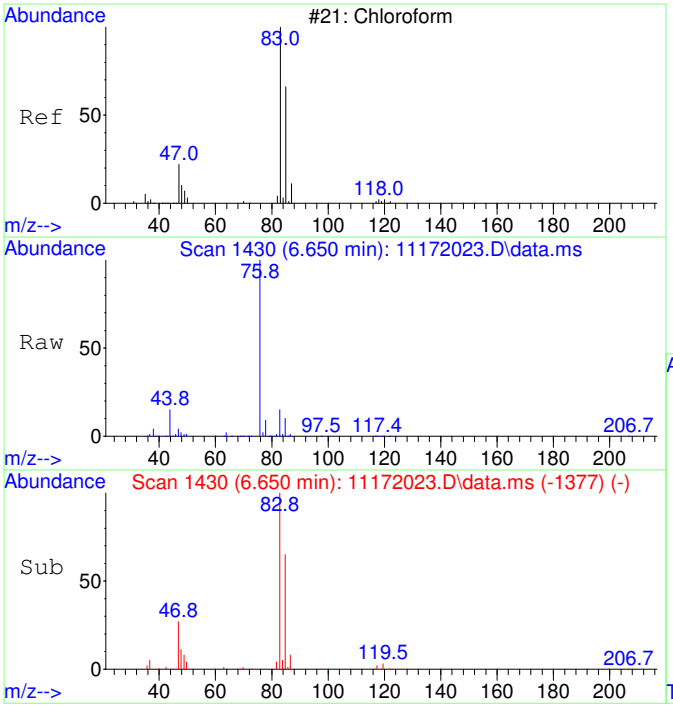


#29
cis-1,2-Dichloroethene SCAN
Concen: 5760.14 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 61 Resp: 110987

Ion	Ratio	Lower	Upper
61	100		
96	62.5	39.9	99.9
98	38.4	13.5	73.5
64	0.0	4.5	64.5#

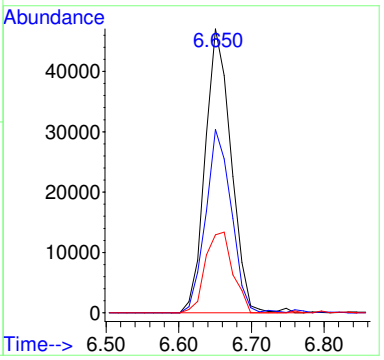


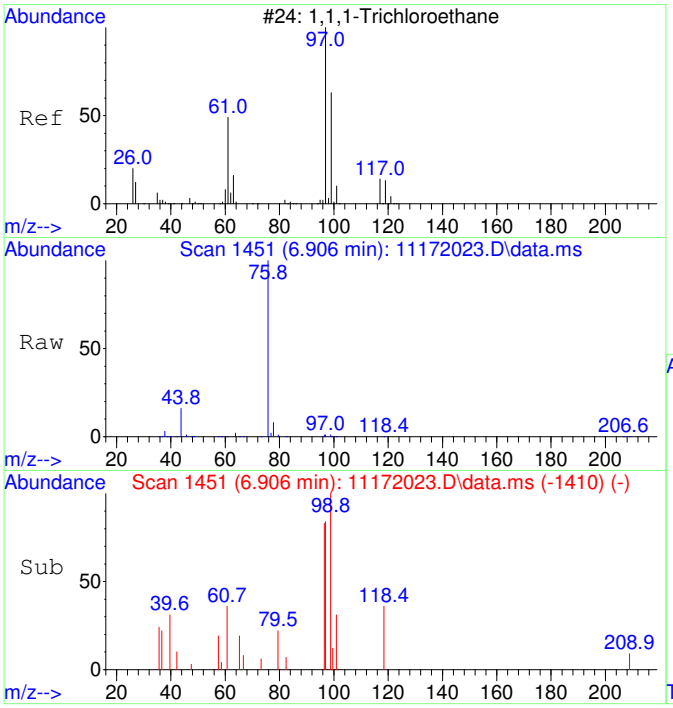


#30
Chloroform SCAN
Concen: 5602.43 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 83 Resp: 117085

Ion	Ratio	Lower	Upper
83	100		
85	63.5	34.6	94.6
47	30.2	0.0	53.4

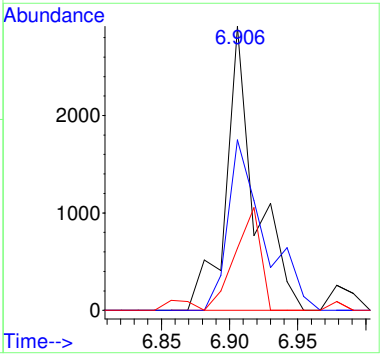


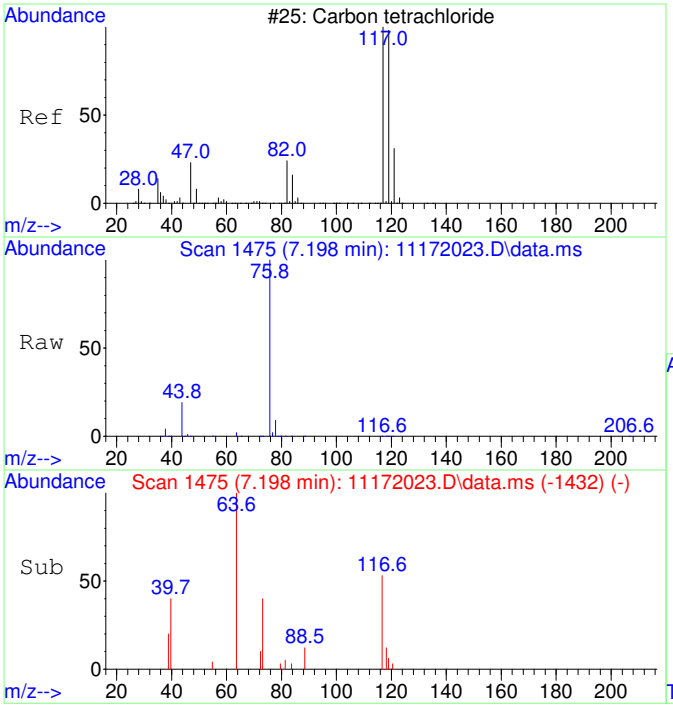


#31
1,1,1-Trichloroethane SCAN
Concen: 230.04 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 97 Resp: 4381

Ion	Ratio	Lower	Upper
97	100		
99	74.4	43.6	103.6
61	34.7	18.0	78.0

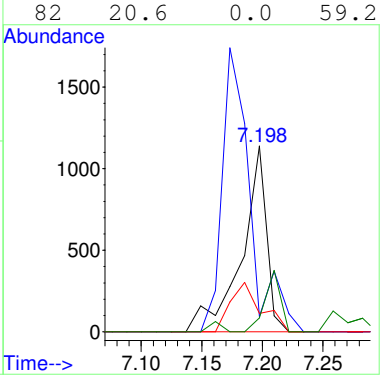


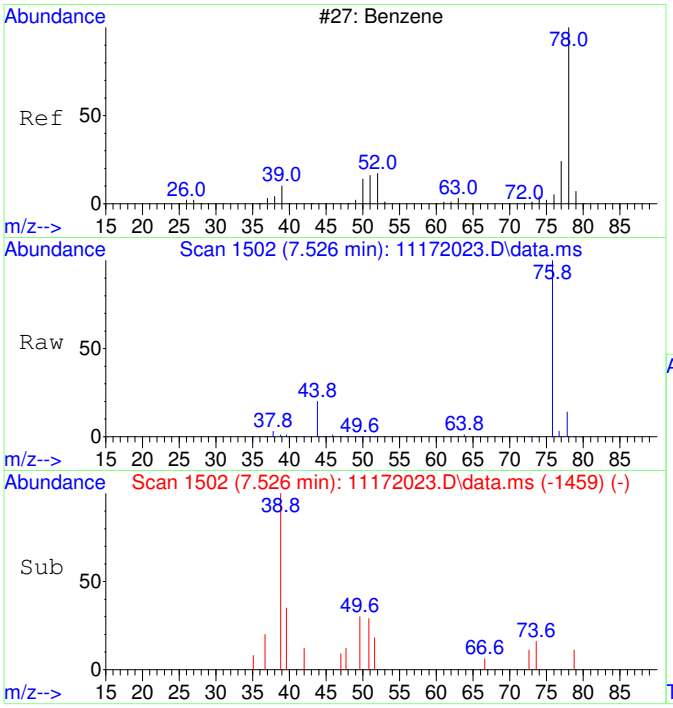


#32
Carbon tetrachloride SCAN
Concen: 82.35 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. 0.024 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:117 Resp: 1636

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	20.6	0.0	59.2

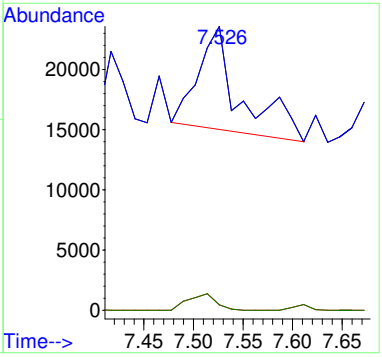


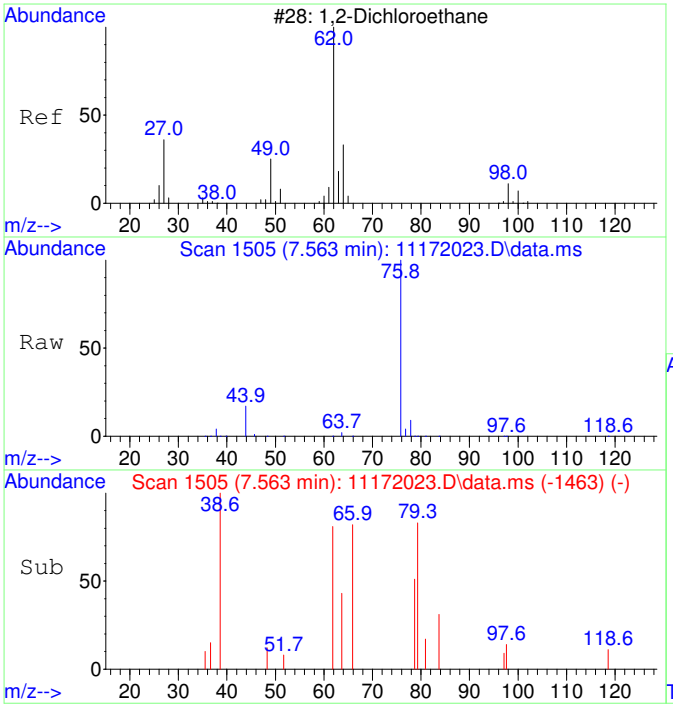


#33
Benzene SCAN
Concen: 462.02 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. 0.024 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 78 Resp: 24227

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	11.3	0.0	47.9
51	11.3	0.0	44.1

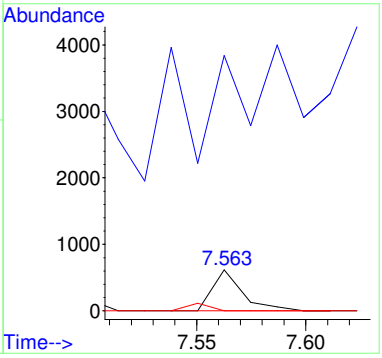


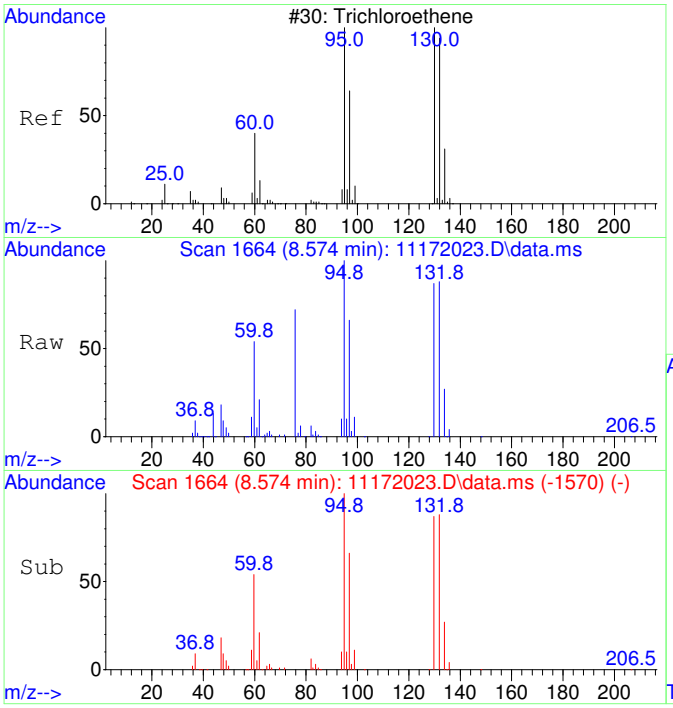


#34
1,2-Dichloroethane SCAN
Concen: 30.42 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 62 Resp: 589

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	14.1	3.9	63.9

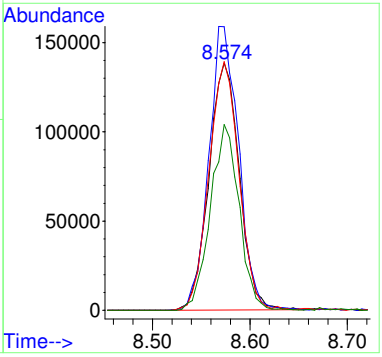


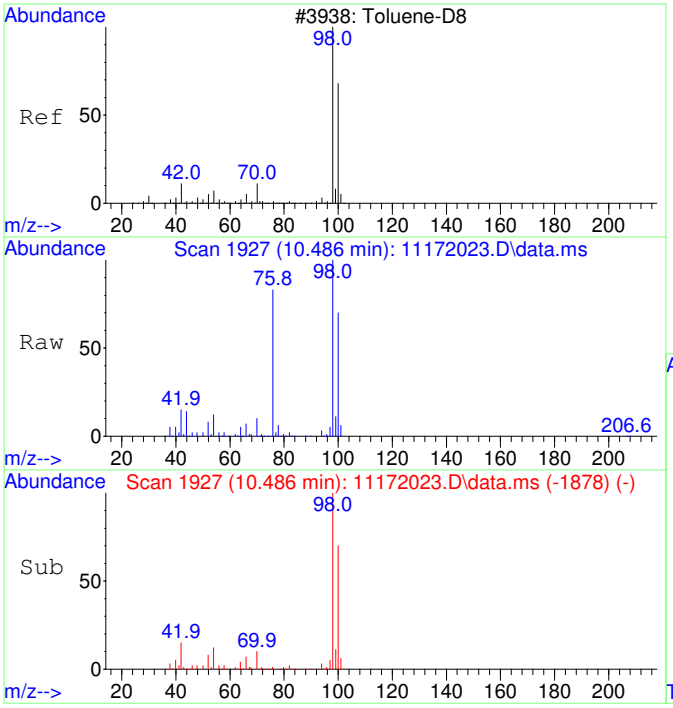


#35
Trichloroethene SCAN
Concen: 20914.72 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:130 Resp: 301385

Ion	Ratio	Lower	Upper
130	100		
95	112.2	60.5	120.5
132	98.9	59.6	119.6
97	70.8	28.2	88.2

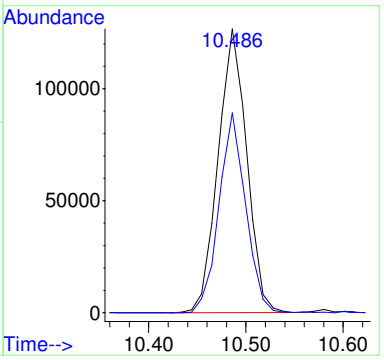


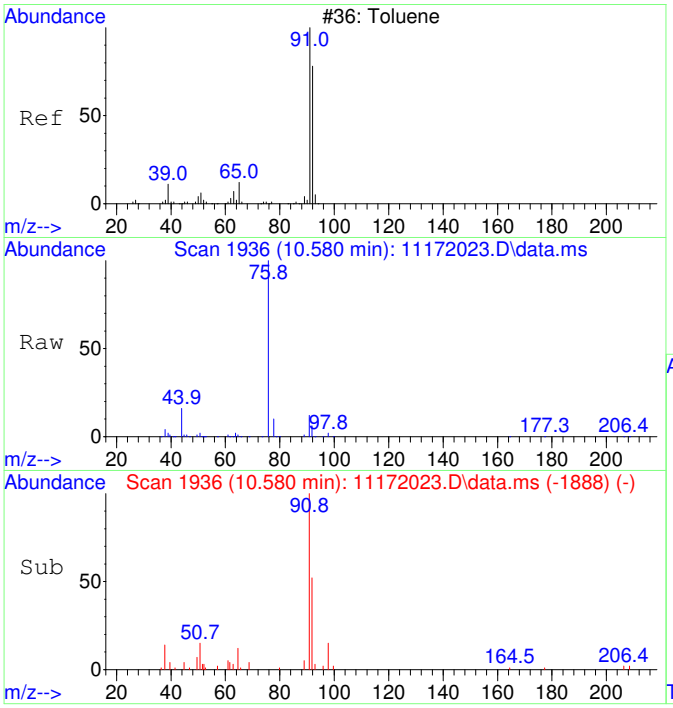


#36
Toluene-d8 SCAN
Concen: 4467.19 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 98 Resp: 258334

Ion	Ratio	Lower	Upper
98	100		
100	65.4	40.0	100.0

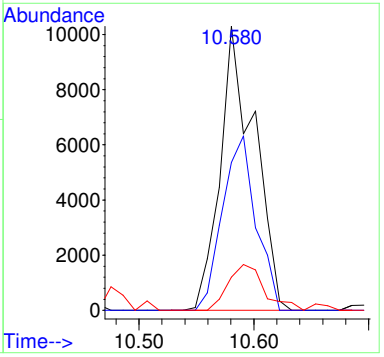


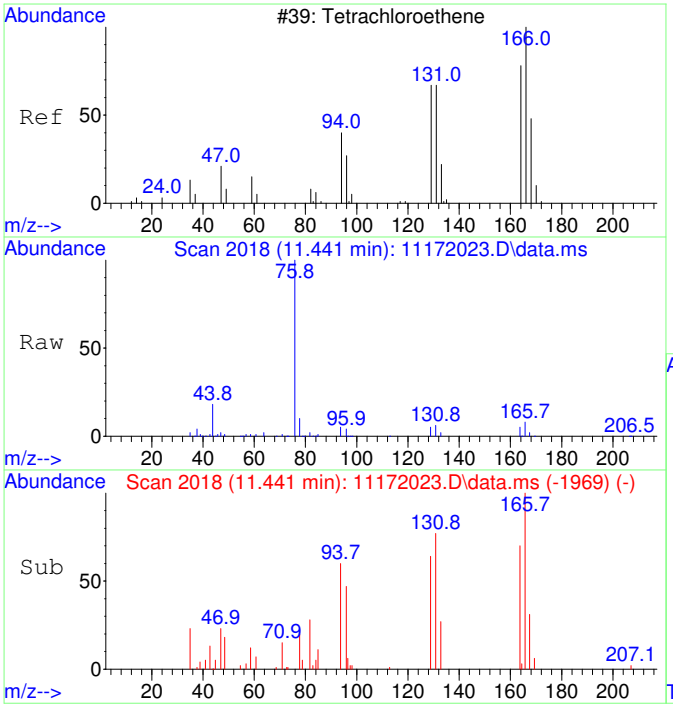


#37
Toluene SCAN
Concen: 289.46 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 21437

Ion	Ratio	Lower	Upper
91	100		
92	59.9	28.3	88.3
65	16.9	0.0	41.0

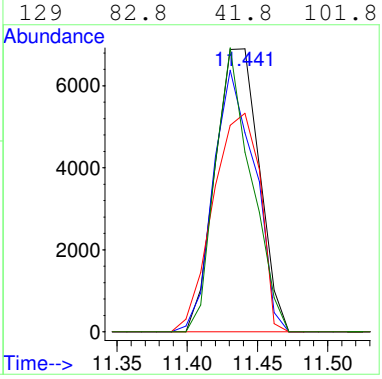


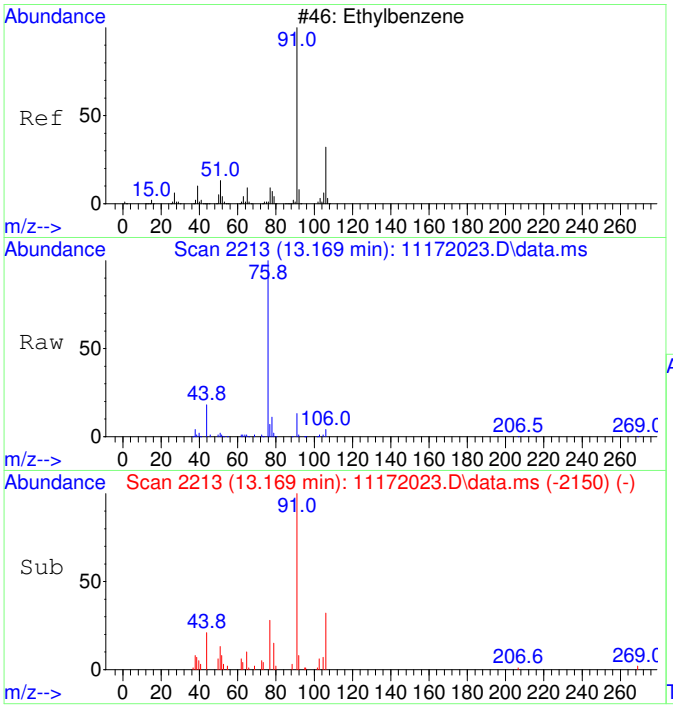


#39
Tetrachloroethene SCAN
Concen: 848.17 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:166 Resp: 15091

Ion	Ratio	Lower	Upper
166	100		
164	86.5	50.9	110.9
131	82.8	38.7	98.7
129	82.8	41.8	101.8

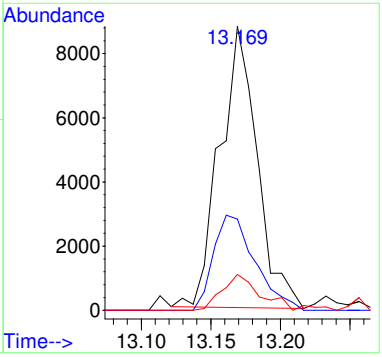


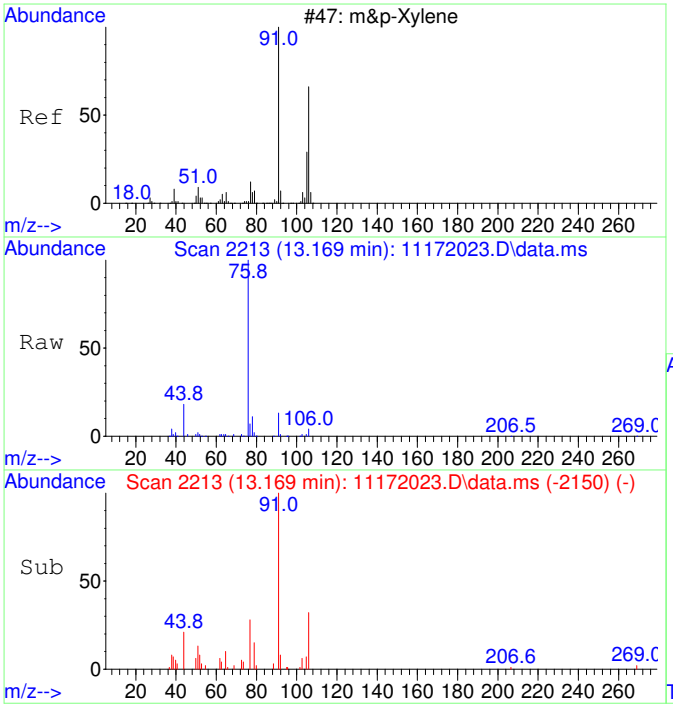


#42
Ethylbenzene SCAN
Concen: 121.53 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 16397

Ion	Ratio	Lower	Upper
91	100		
106	37.6	23.1	83.1
51	13.7	0.0	40.1

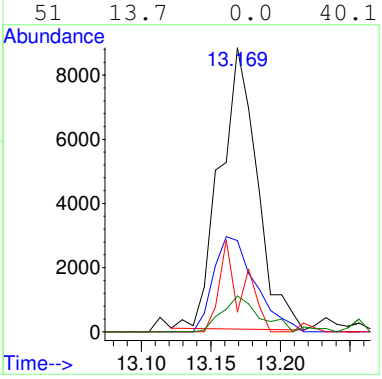


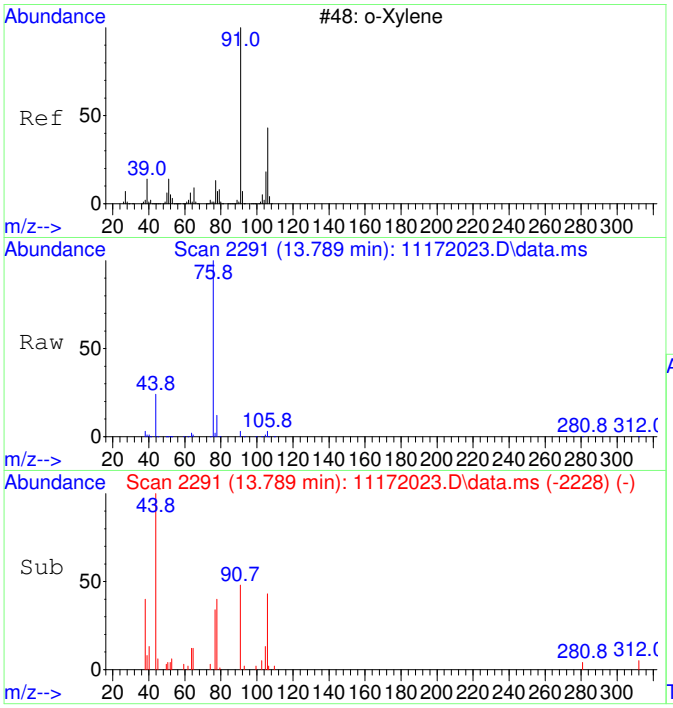


#43
m&p-Xylene SCAN
Concen: 121.53 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 16397

Ion	Ratio	Lower	Upper
91	100		
106	37.6	23.1	83.1
105	20.4	0.0	54.7
51	13.7	0.0	40.1

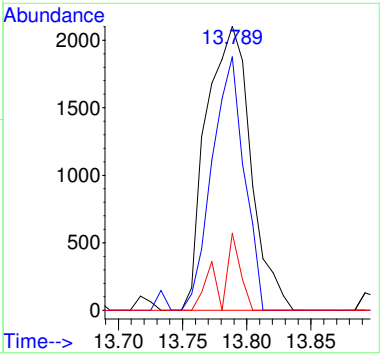


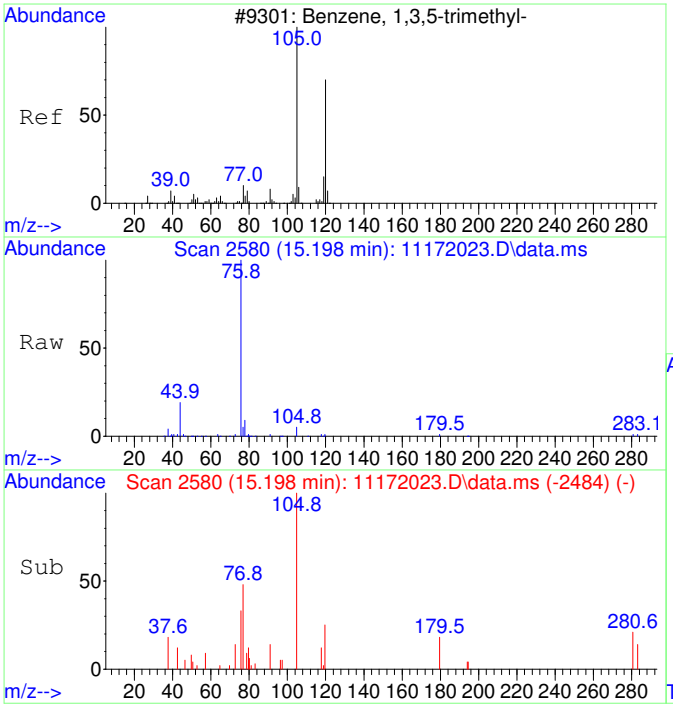


#44
o-Xylene SCAN
Concen: 70.13 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 5065

Ion	Ratio	Lower	Upper
91	100		
106	64.5	18.0	78.0
105	12.1	0.0	56.6

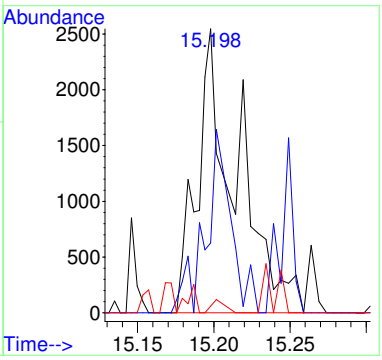


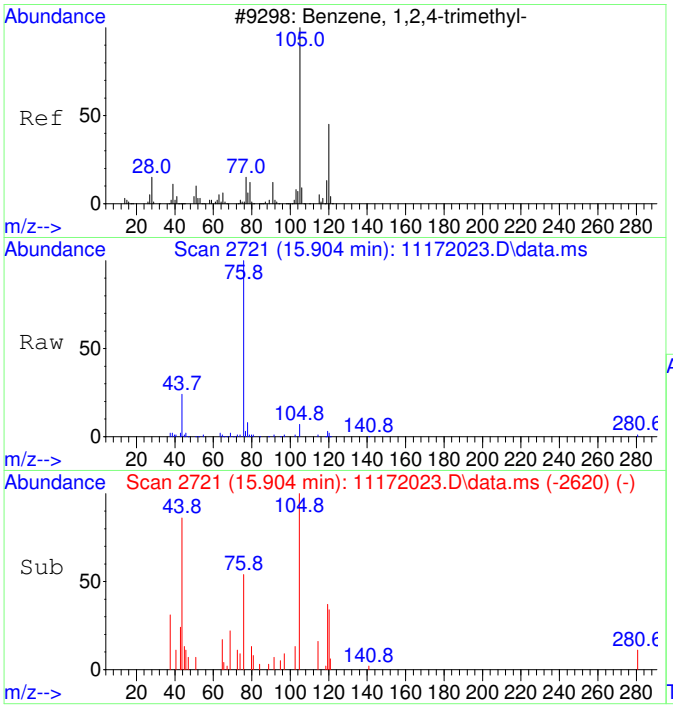


#46
1,3,5-Trimethylbenzene SCAN
Concen: 60.32 ug/L
RT: 15.198 min Scan# 2580
Delta R.T. -0.146 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:105 Resp: 4591

Ion	Ratio	Lower	Upper
105	100		
120	34.5	18.3	78.3
119	1.5	0.0	43.1

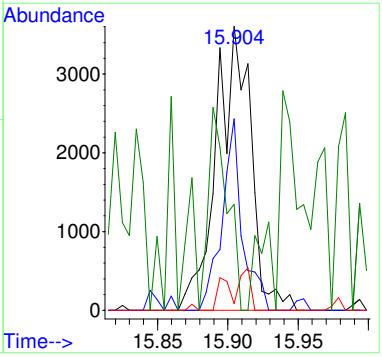




#47
1,2,4-Trimethylbenzene SCAN
Concen: 79.42 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:105 Resp: 6185

Ion	Ratio	Lower	Upper
105	100		
120	39.2	16.9	76.9
119	4.1	0.0	41.9
77	0.0	0.0	42.3



Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172023.D
Acq On : 17 Nov 2020 16:35
InstName : AG5975C
Operator : TD
Sample : 2011017-12
Misc :
ALS Vial : 23 Sample Multiplier: 1

M.I. Performed By:
TD at 9:37 am, Nov 23, 2020

M.I. Approved By:
ZR at 3:42 pm, Nov 23, 2020

Quant Time: Nov 18 06:16:34 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

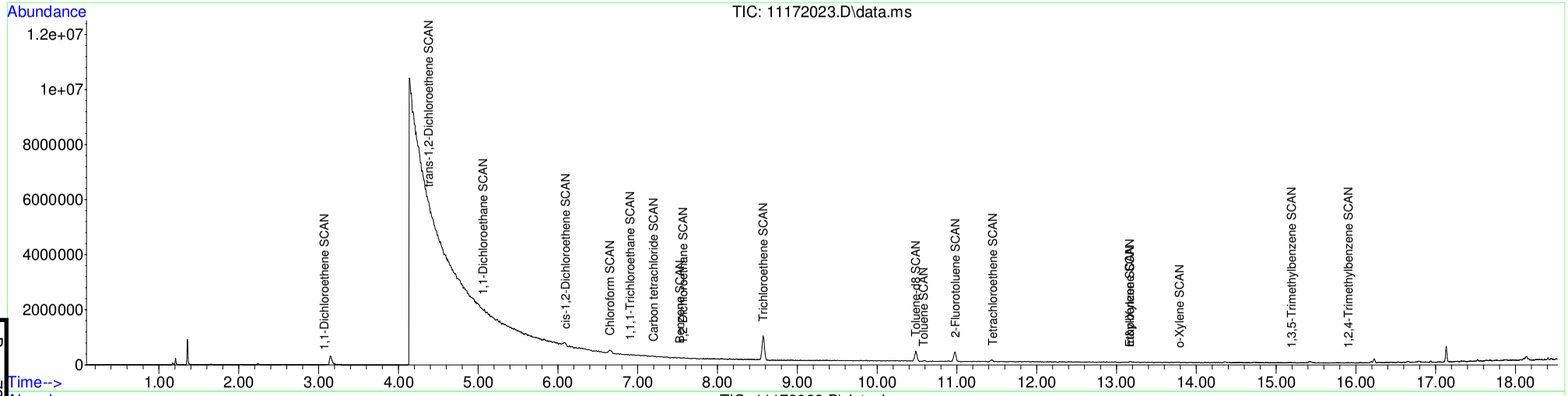
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	606596	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	520241	4381.06 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.62%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	8362m	345.22 ug/L	
3] trans-1,2-Dichloroethene	4.356	61	10549	376.94 ug/L	94
4] 1,1-Dichloroethane	5.079	63	10524	302.09 ug/L	92
5] cis-1,2-Dichloroethene	6.081	61	193498	5261.99 ug/L	99
6] Chloroform	6.652	83	210853	5602.08 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	7234	176.98 ug/L	100
8] Carbon tetrachloride	7.187	117	4529	117.72 ug/L	100
9] Benzene	7.503	78	20162	195.63 ug/L	56
10] 1,2-Dichloroethane	7.552	62	1160	31.53 ug/L #	42
11] Trichloroethene	8.575	130	668183	21532.60 ug/L	94
13] Toluene	10.582	91	39399	260.24 ug/L	98
14] 1,1,2-Trichloroethane	11.169	97	812	24.61 ug/L #	21
15] Tetrachloroethene	11.432	166	32180	734.49 ug/L	99
18] Ethylbenzene	12.972	91	12531	68.00 ug/L	95
19] m&p-Xylene	13.162	91	27625	191.81 ug/L	94
20] o-Xylene	13.782	91	11152	72.48 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	10847	63.76 ug/L	92
25) 2-Fluorotoluene SCAN	10.979	109	288098	4872.12 ug/L	99
26) 1,1-Dichloroethene SCAN	3.074	61	1193	95.00 ug/L #	63
27) trans-1,2-Dichloroethe...	4.375	61	5904	379.93 ug/L	83
28) 1,1-Dichloroethane SCAN	5.058	63	2516	139.90 ug/L #	84
29) cis-1,2-Dichloroethene...	6.093	61	110987	5760.14 ug/L #	79
30) Chloroform SCAN	6.650	83	117085	5602.43 ug/L	95
31) 1,1,1-Trichloroethane ...	6.906	97	4381	230.04 ug/L	92
32) Carbon tetrachloride SCAN	7.198	117	1636	82.35 ug/L #	22
33) Benzene SCAN	7.526	78	24227	462.02 ug/L	97
34) 1,2-Dichloroethane SCAN	7.563	62	589	30.42 ug/L #	52
35) Trichloroethene SCAN	8.574	130	301385	20914.72 ug/L	83
36) Toluene-d8 SCAN	10.486	98	258334	4467.19 ug/L	94
37) Toluene SCAN	10.580	91	21437	289.46 ug/L	96
39) Tetrachloroethene SCAN	11.441	166	15091	848.17 ug/L	88
42) Ethylbenzene SCAN	13.169	91	16397	121.53 ug/L	80
43) m&p-Xylene SCAN	13.169	91	16397	121.53 ug/L	83
44) o-Xylene SCAN	13.789	91	5065	70.13 ug/L	74
46) 1,3,5-Trimethylbenzene...	15.198	105	4591	60.32 ug/L	78
47) 1,2,4-Trimethylbenzene...	15.904	105	6185	79.42 ug/L #	84

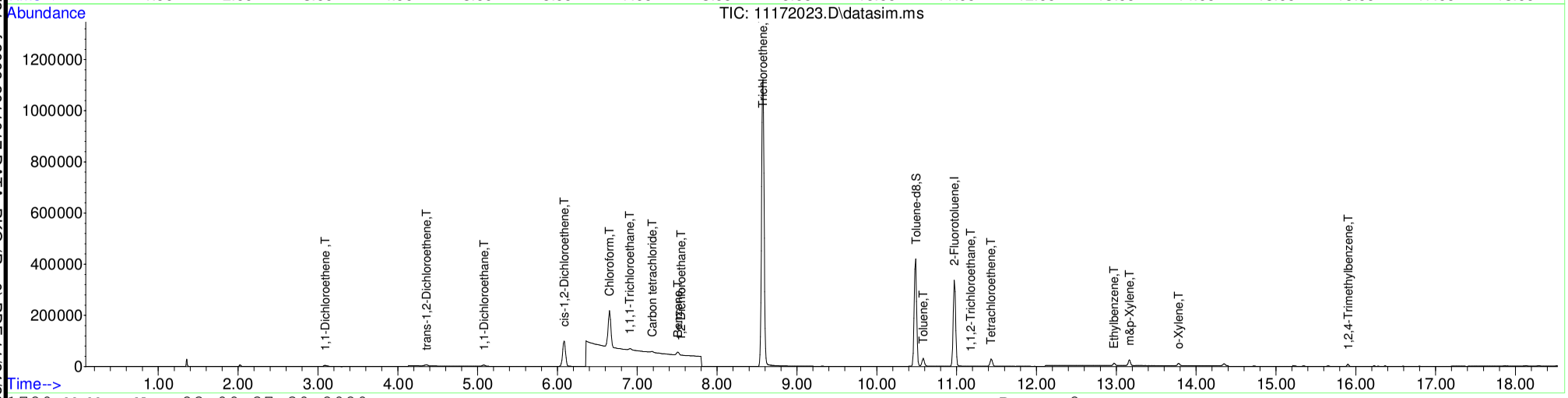
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172023.D
Acq On : 17 Nov 2020 16:35
InstName : AG5975C
Operator : TD
Sample : 2011017-12
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 18 06:16:34 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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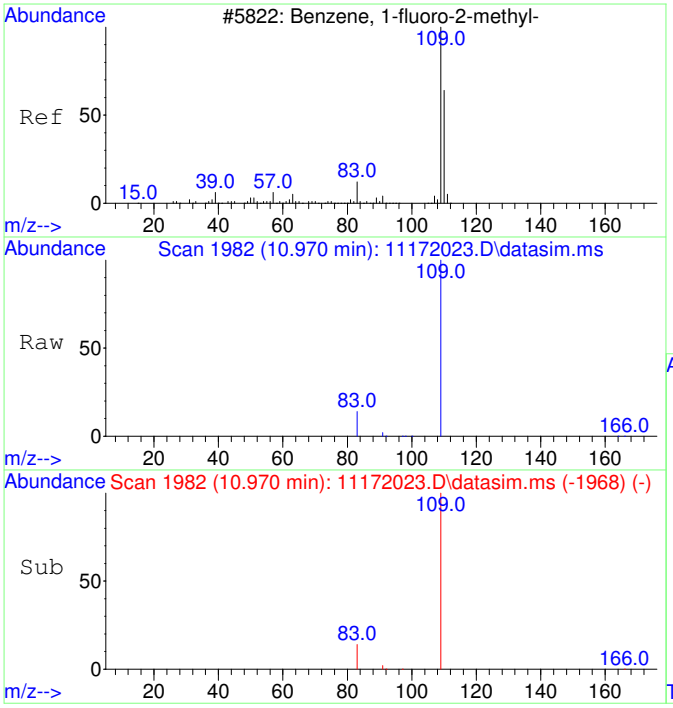
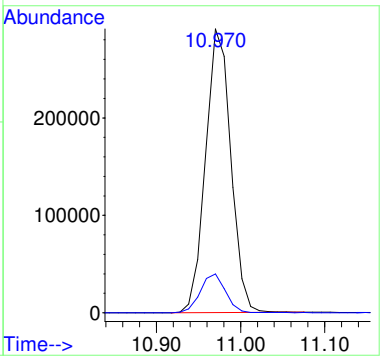
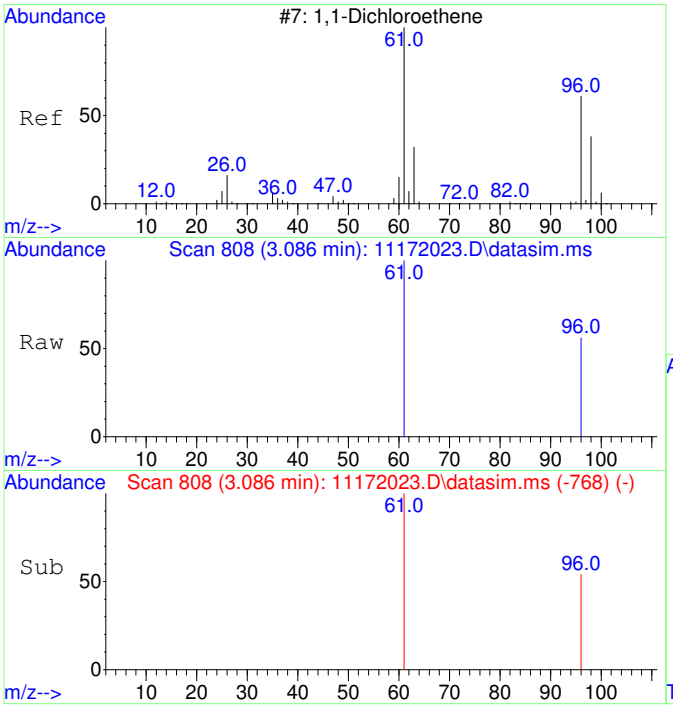


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:109 Resp: 606596

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

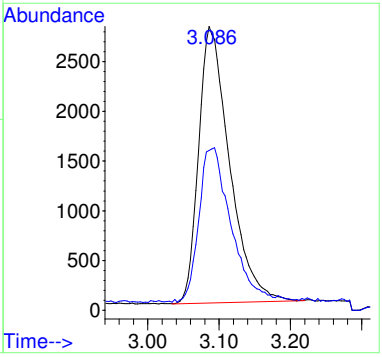


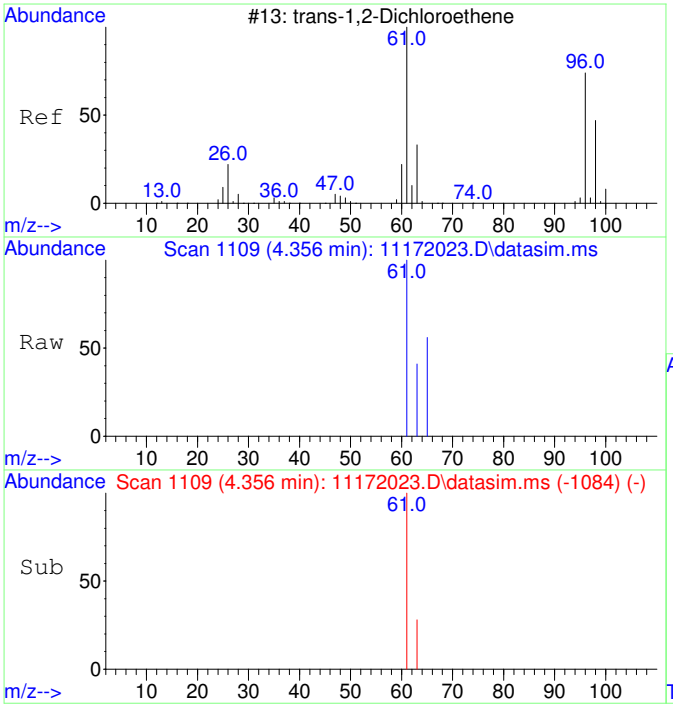


#2
1,1-Dichloroethene
Concen: 345.22 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. 0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 61 Resp: 8362

Ion	Ratio	Lower	Upper
61	100		
96	61.7	37.2	97.2

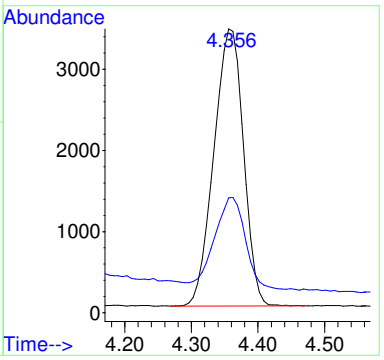


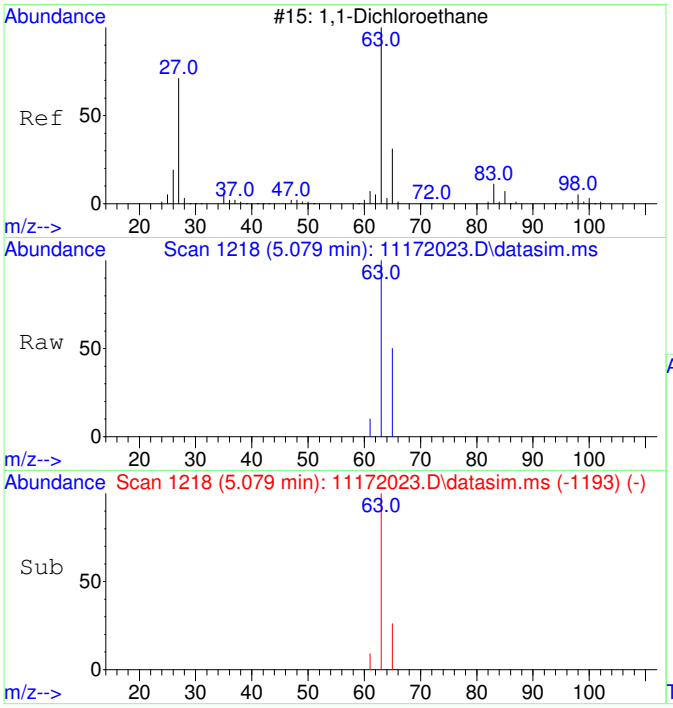


#3
trans-1,2-Dichloroethene
Concen: 376.94 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 61 Resp: 10549

Ion	Ratio	Lower	Upper
61	100		
63	35.8	2.4	62.4

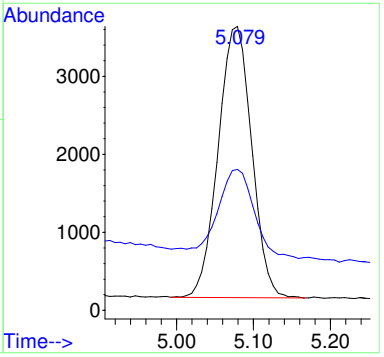


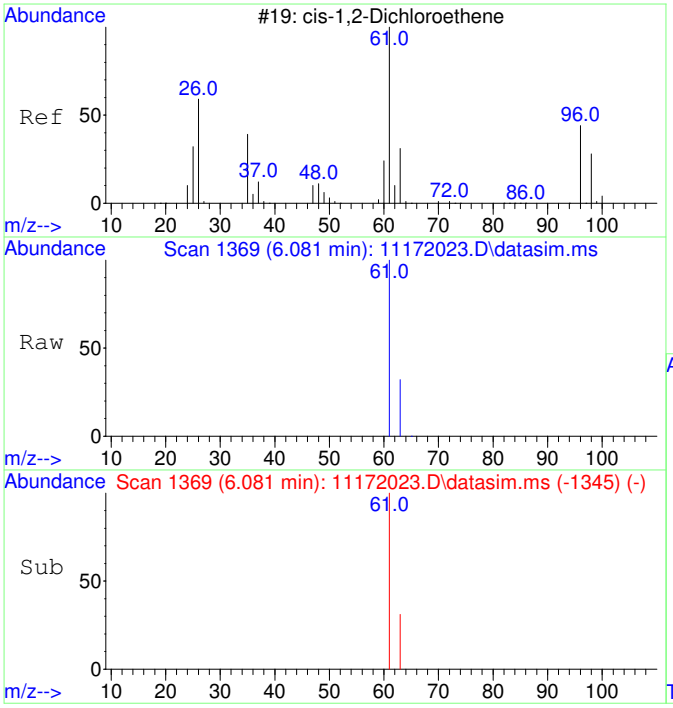


#4
1,1-Dichloroethane
Concen: 302.09 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 63 Resp: 10524

Ion	Ratio	Lower	Upper
63	100		
65	36.0	1.8	61.8

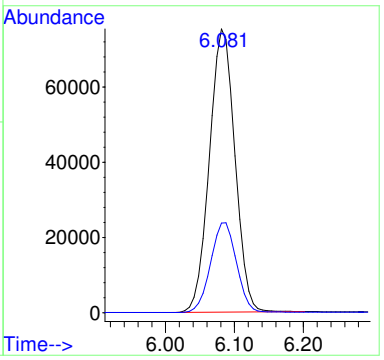


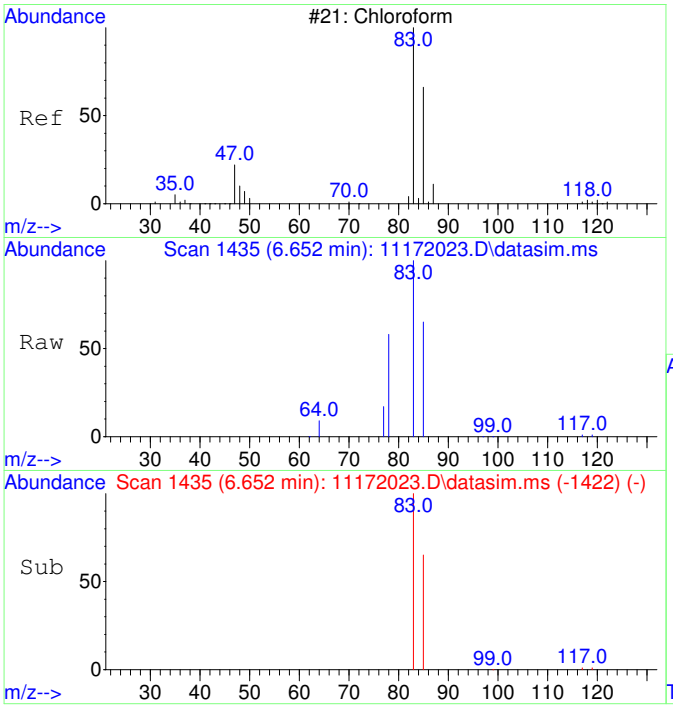


#5
cis-1,2-Dichloroethene
Concen: 5261.99 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 61 Resp: 193498

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

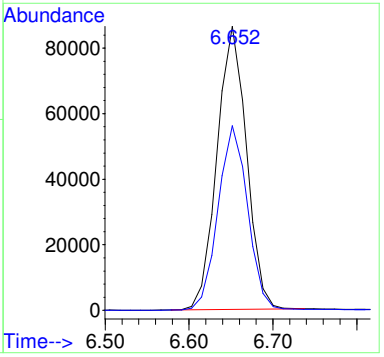


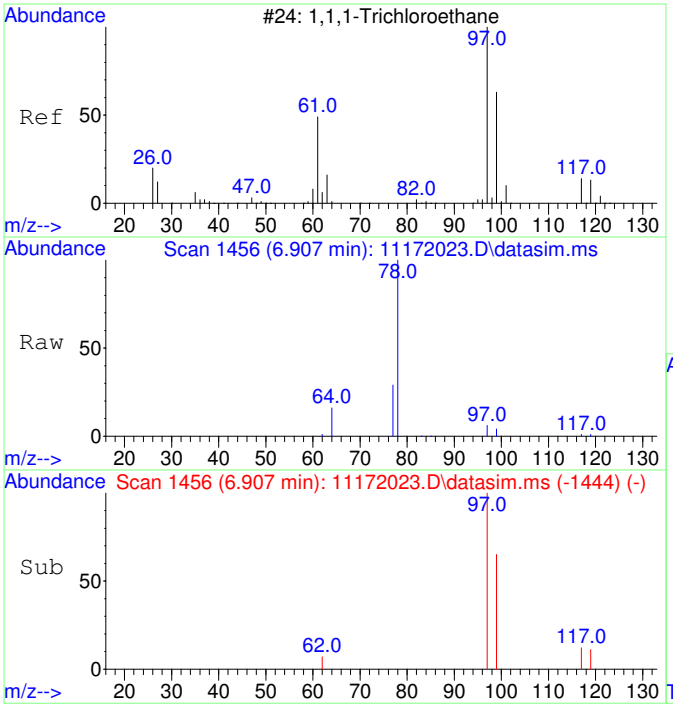


#6
Chloroform
Concen: 5602.08 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 83 Resp: 210853

Ion	Ratio	Lower	Upper
83	100		
85	64.8	35.1	95.1

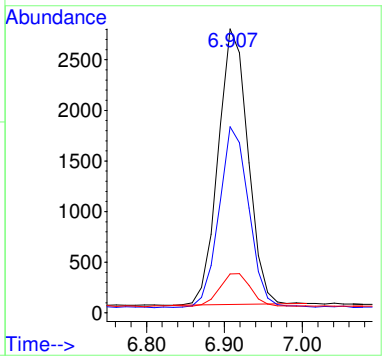


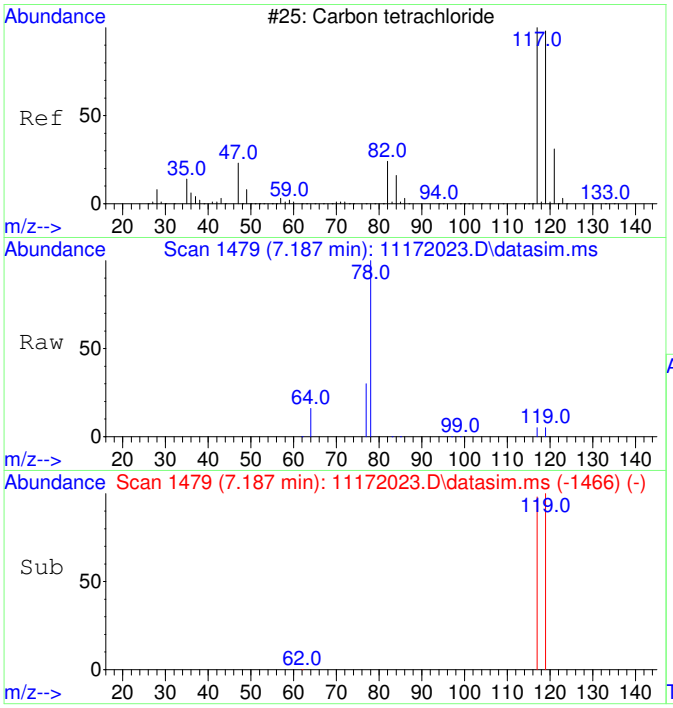


#7
1,1,1-Trichloroethane
Concen: 176.98 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 97 Resp: 7234

Ion	Ratio	Lower	Upper
97	100		
99	65.0	34.6	94.6
117	13.3	0.0	43.2

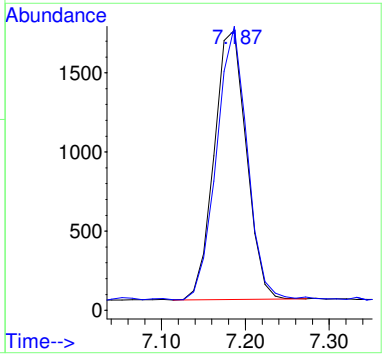


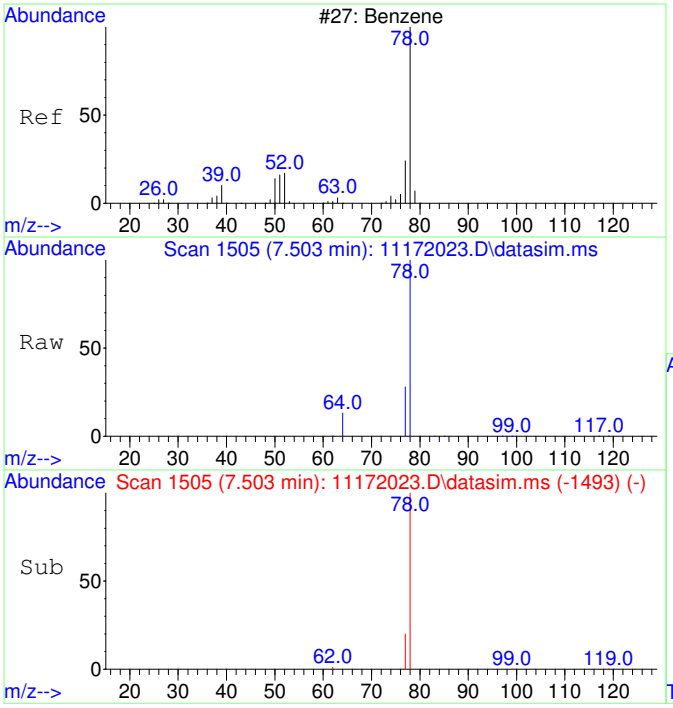


#8
Carbon tetrachloride
Concen: 117.72 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:117 Resp: 4529

Ion	Ratio	Lower	Upper
117	100		
119	95.9	66.4	126.4

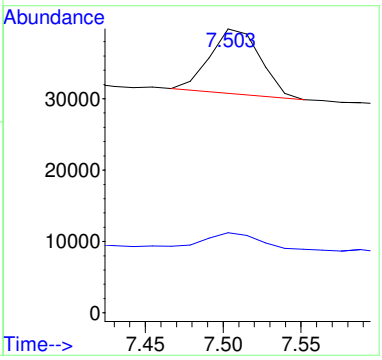


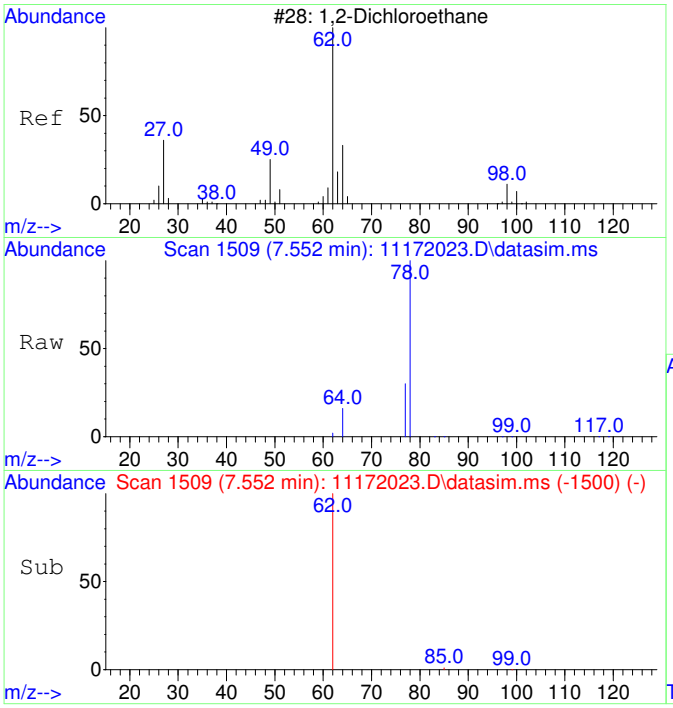


#9
Benzene
Concen: 195.63 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 78 Resp: 20162

Ion	Ratio	Lower	Upper
78	100		
77	44.8	0.0	53.2

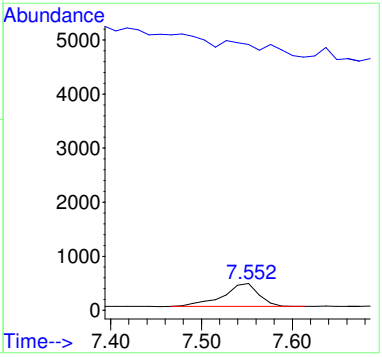


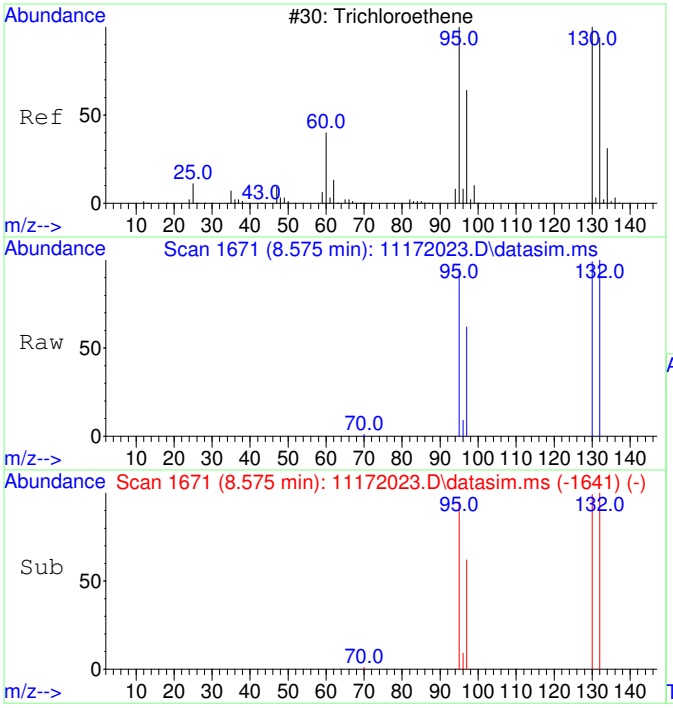


#10
1,2-Dichloroethane
Concen: 31.53 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 62 Resp: 1160

Ion	Ratio	Lower	Upper
62	100		
64	0.0	2.3	62.3#

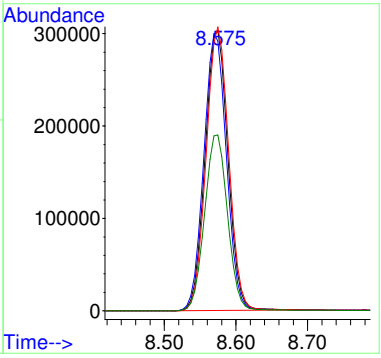


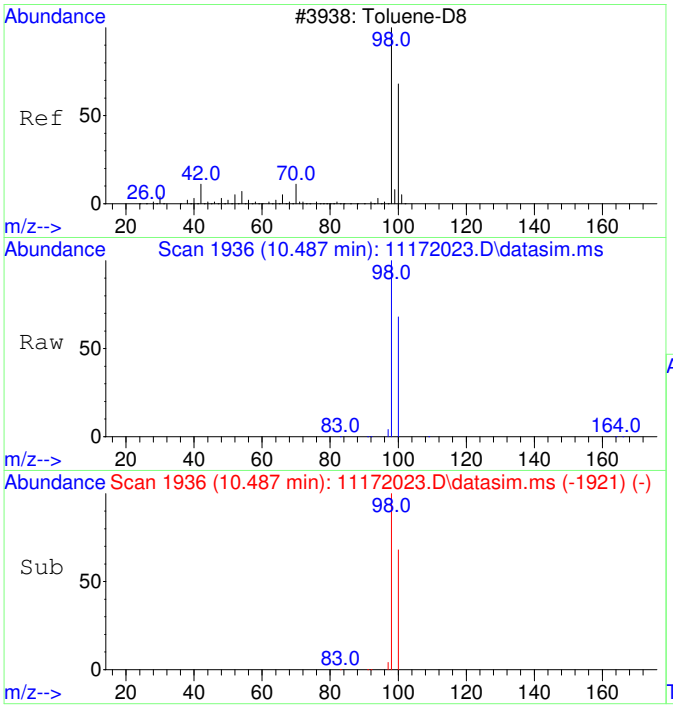


#11
Trichloroethene
Concen: 21532.60 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:130 Resp: 668183

Ion	Ratio	Lower	Upper
130	100		
95	98.3	60.7	120.7
132	100.1	76.0	116.0
97	63.0	38.6	78.6

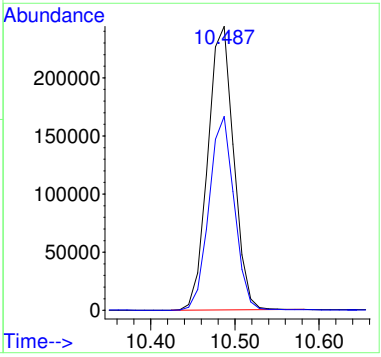


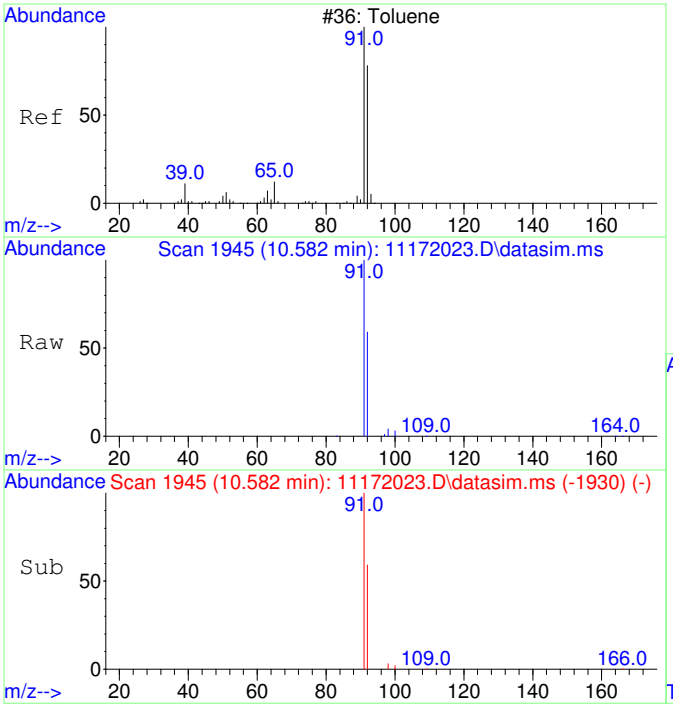


#12
Toluene-d8
Concen: 4381.06 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 98 Resp: 520241

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

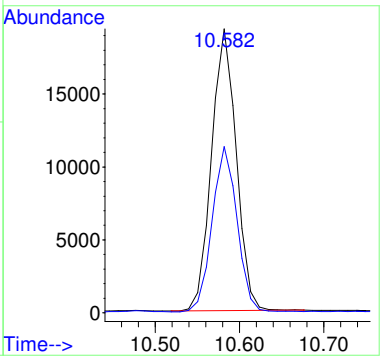


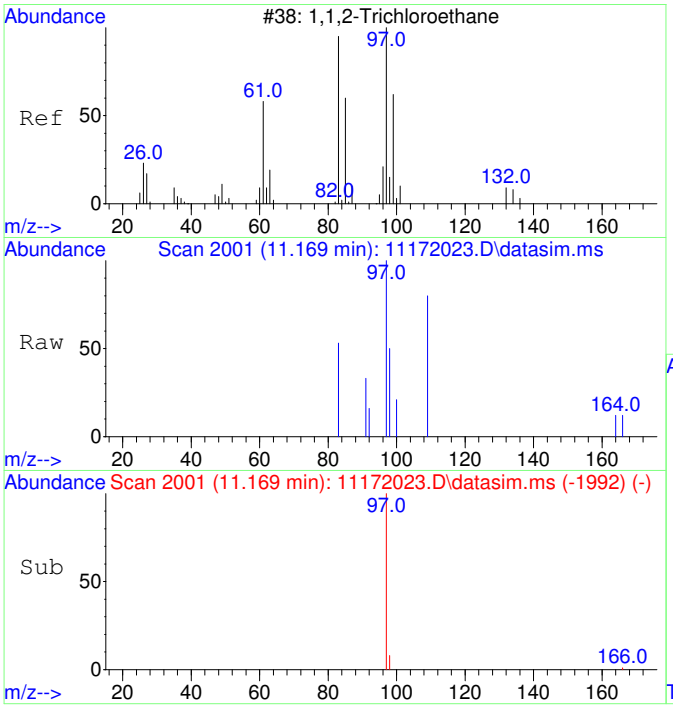


#13
Toluene
Concen: 260.24 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 39399

Ion	Ratio	Lower	Upper
91	100		
92	58.8	29.9	89.9

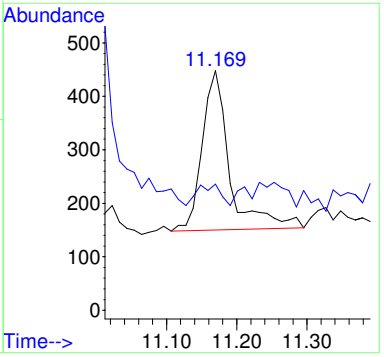


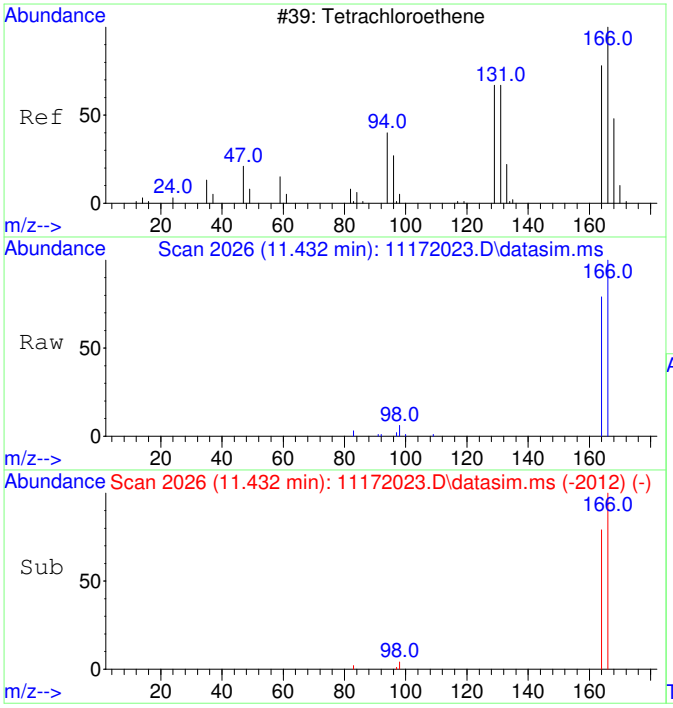


#14
1,1,2-Trichloroethane
Concen: 24.61 ug/L
RT: 11.169 min Scan# 2001
Delta R.T. -0.053 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 97 Resp: 812

Ion	Ratio	Lower	Upper
97	100		
83	10.8	51.2	111.2#

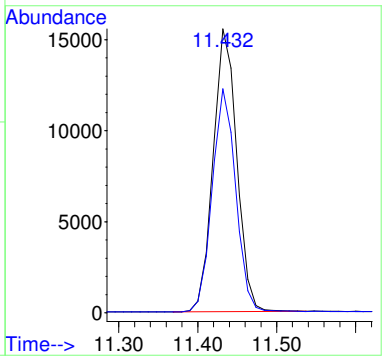


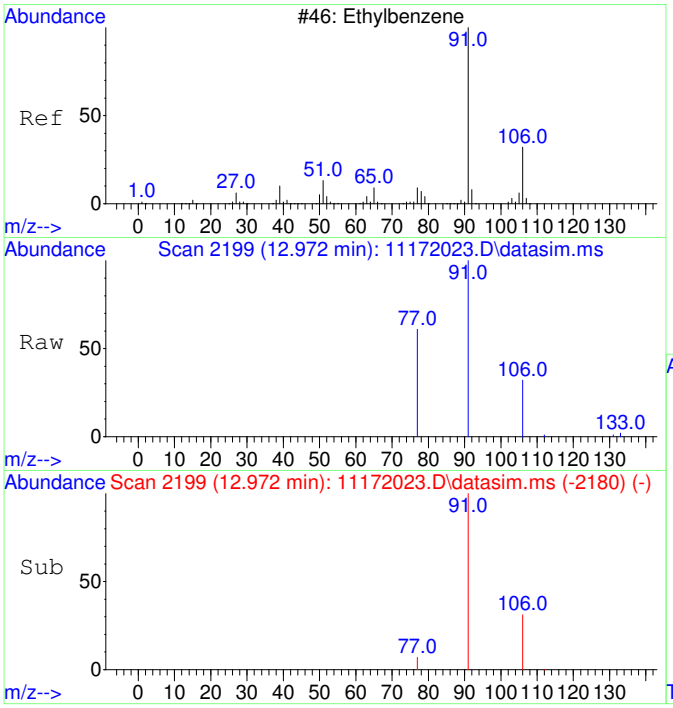


#15
Tetrachloroethene
Concen: 734.49 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:166 Resp: 32180

Ion	Ratio	Lower	Upper
166	100		
164	78.5	47.8	107.8

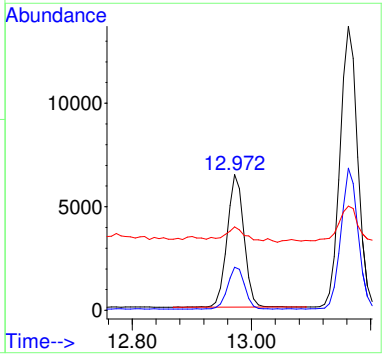


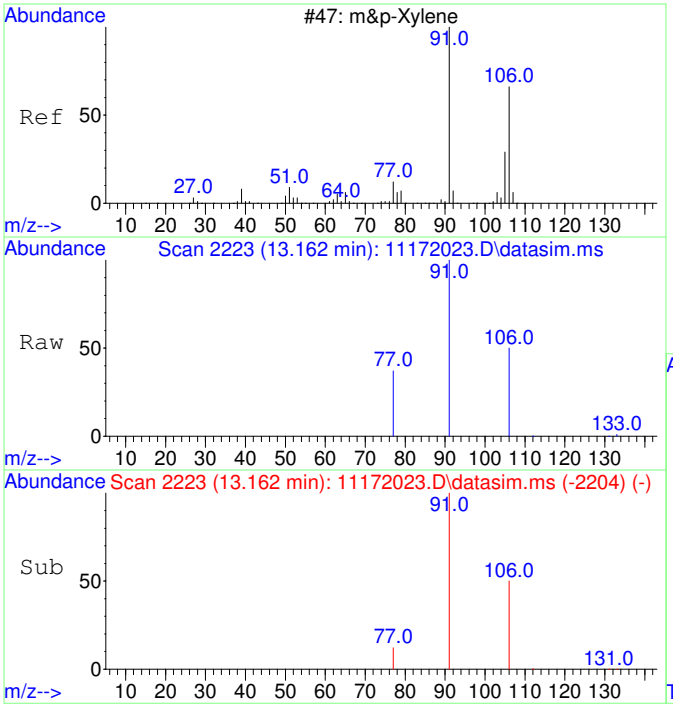


#18
Ethylbenzene
Concen: 68.00 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 12531

Ion	Ratio	Lower	Upper
91	100		
106	32.3	3.0	63.0
77	15.9	0.0	38.2

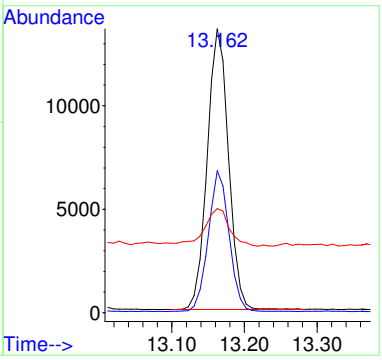


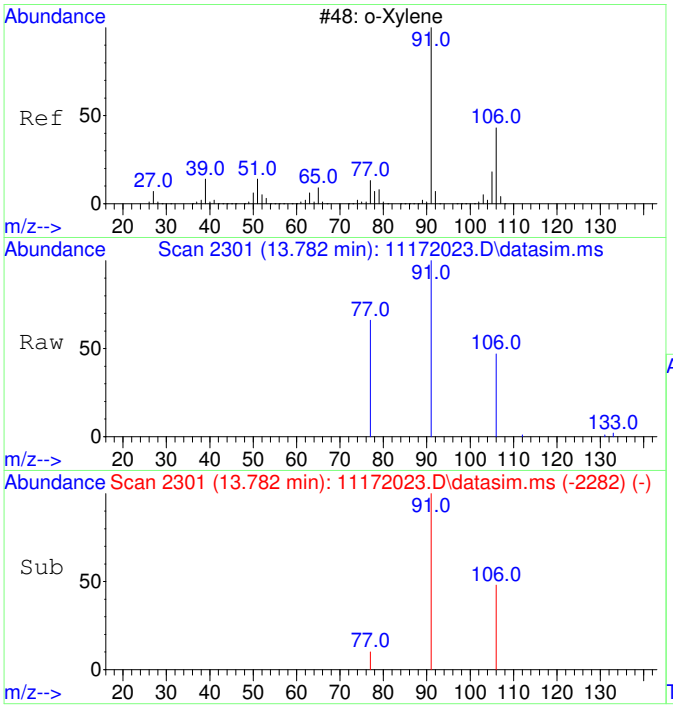


#19
m&p-Xylene
Concen: 191.81 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 27625

Ion	Ratio	Lower	Upper
91	100		
106	49.0	22.2	82.2
77	16.5	0.0	42.4

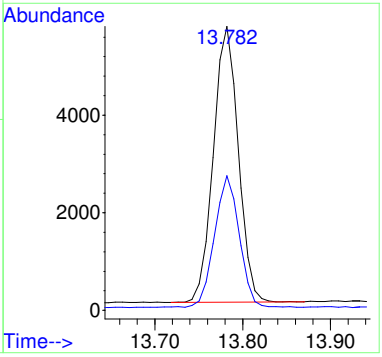


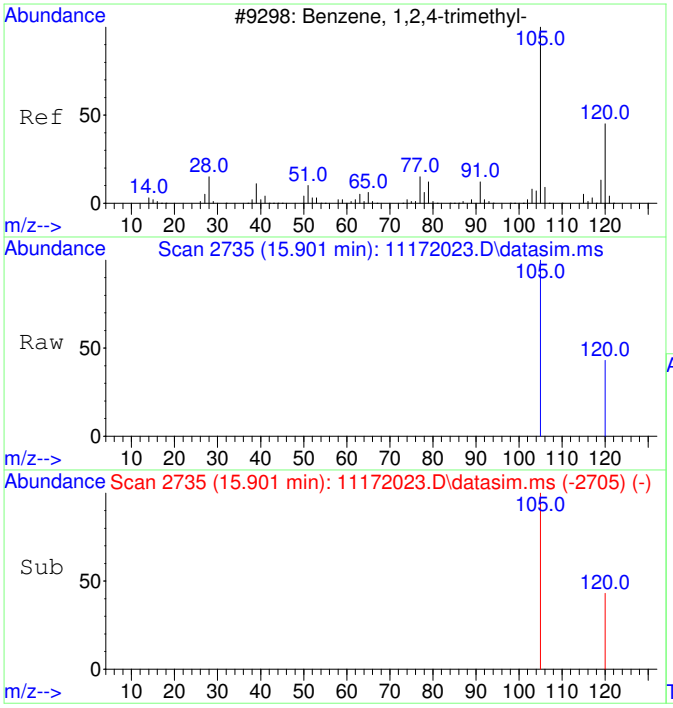


#20
o-Xylene
Concen: 72.48 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 11152

Ion	Ratio	Lower	Upper
91	100		
106	47.2	19.2	79.2

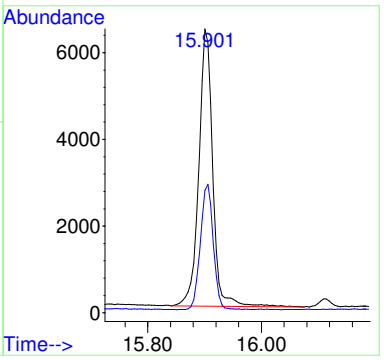


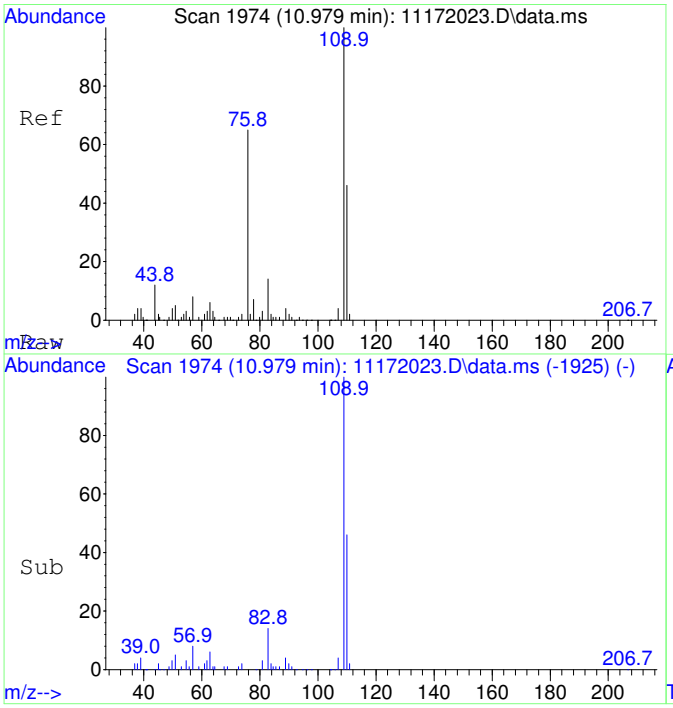


#23
1,2,4-Trimethylbenzene
Concen: 63.76 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:105 Resp: 10847

Ion	Ratio	Lower	Upper
105	100		
120	41.8	17.2	77.2

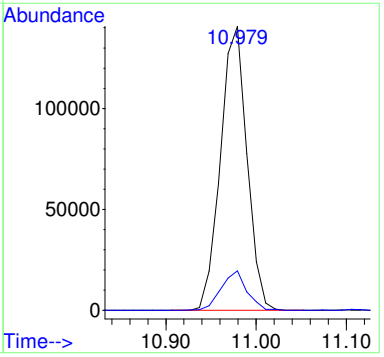


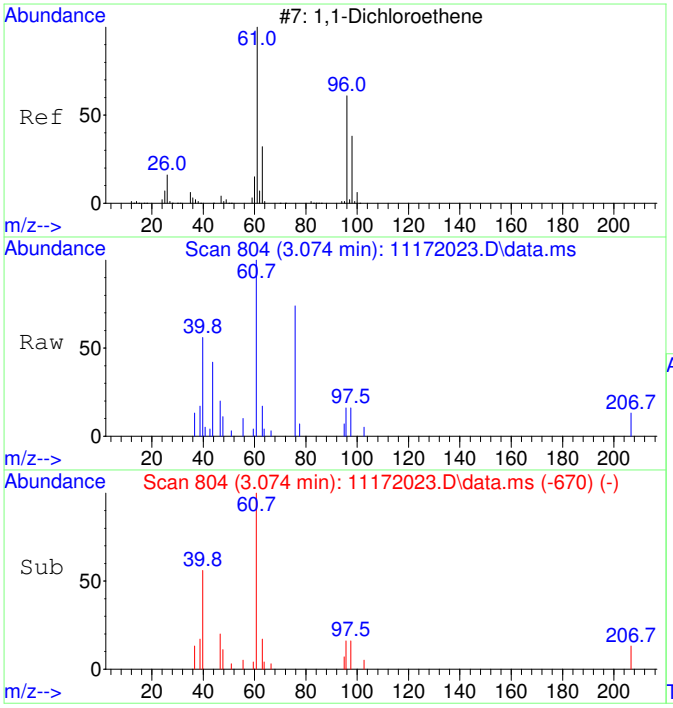


#25
2-Fluorotoluene SCAN
Concen: 4872.12 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:109 Resp: 288098

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	43.8

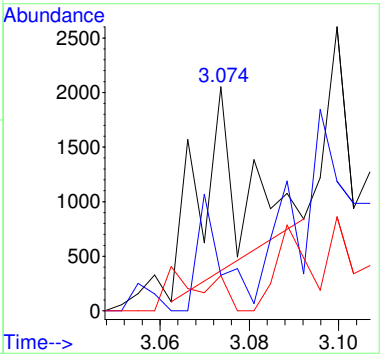


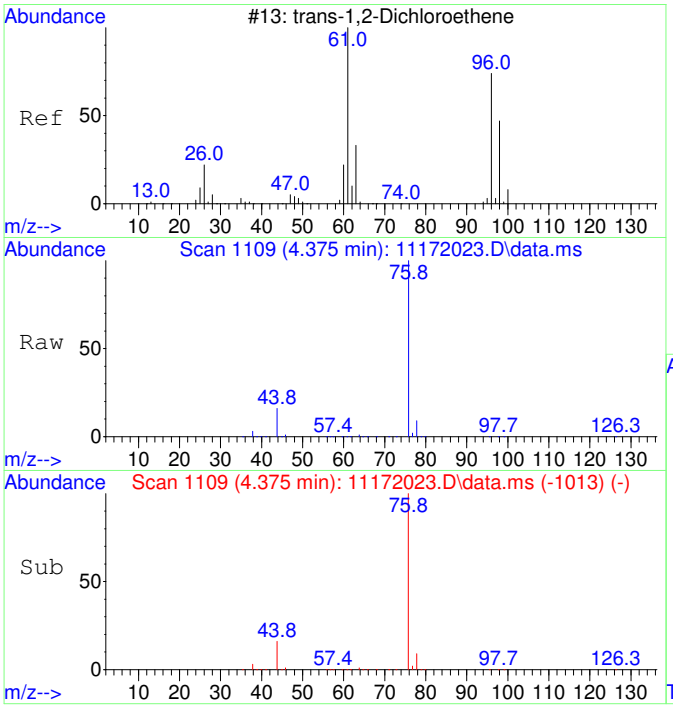


#26
1,1-Dichloroethene SCAN
Concen: 95.00 ug/L
RT: 3.074 min Scan# 804
Delta R.T. -0.004 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 61 Resp: 1193

Ion	Ratio	Lower	Upper
61	100		
96	31.9	33.1	93.1#
98	20.5	11.2	71.2

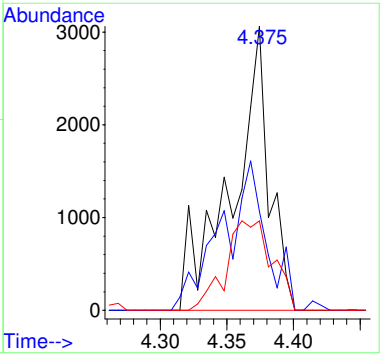


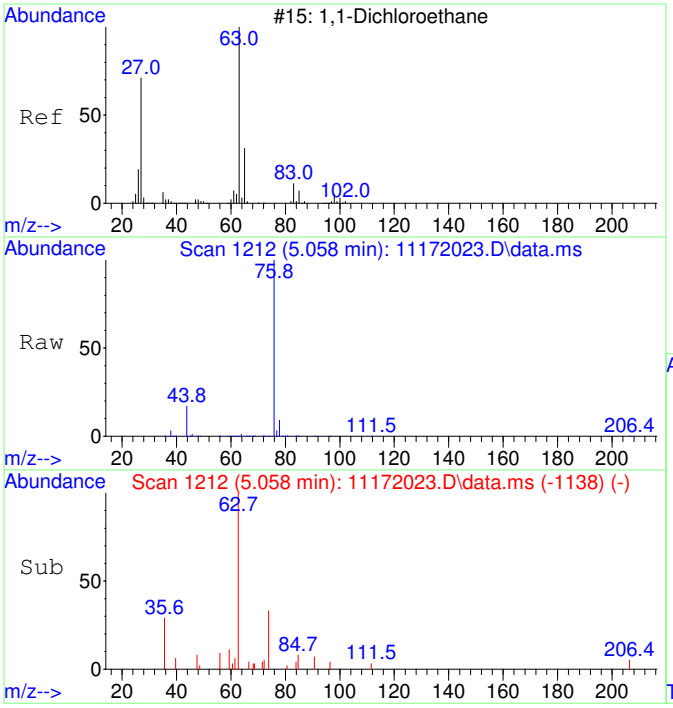


#27
trans-1,2-Dichloroethene SCAN
Concen: 379.93 ug/L
RT: 4.375 min Scan# 1109
Delta R.T. 0.026 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 61 Resp: 5904

Ion	Ratio	Lower	Upper
61	100		
96	63.0	49.0	109.0
98	39.5	20.5	80.5

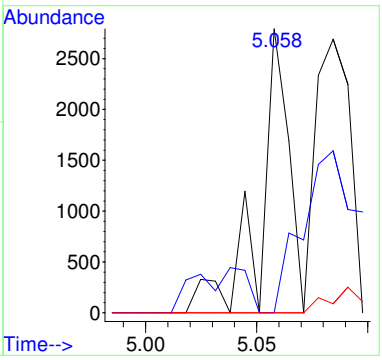


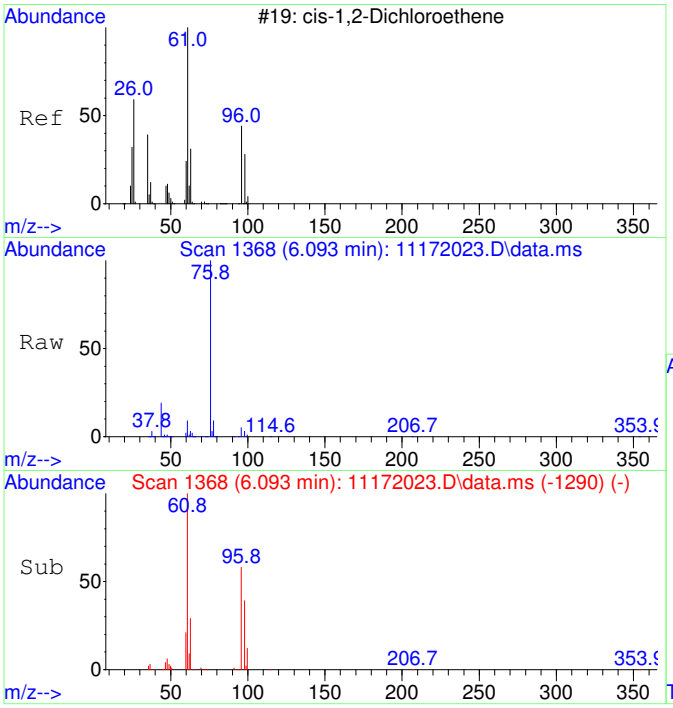


#28
1,1-Dichloroethane SCAN
Concen: 139.90 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.007 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 63 Resp: 2516

Ion	Ratio	Lower	Upper
63	100		
65	28.1	1.3	61.3
83	0.0	0.0	45.9

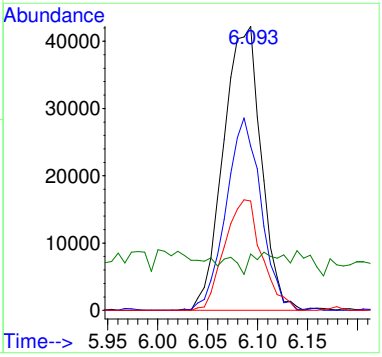


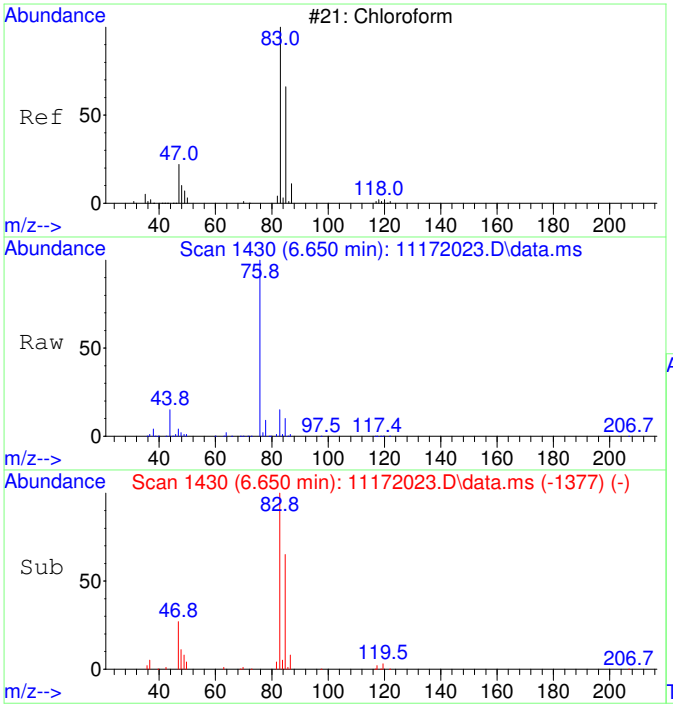


#29
cis-1,2-Dichloroethene SCAN
Concen: 5760.14 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 61 Resp: 110987

Ion	Ratio	Lower	Upper
61	100		
96	62.5	39.9	99.9
98	38.4	13.5	73.5
64	0.0	4.5	64.5#

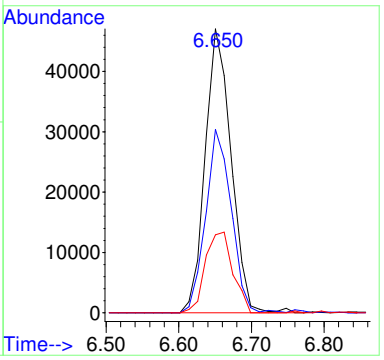


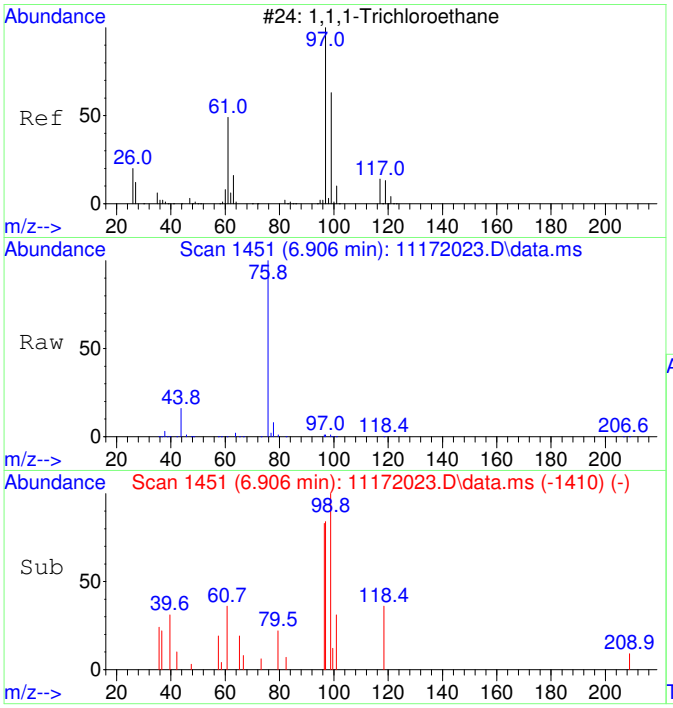


#30
Chloroform SCAN
Concen: 5602.43 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 83 Resp: 117085

Ion	Ratio	Lower	Upper
83	100		
85	63.5	34.6	94.6
47	30.2	0.0	53.4

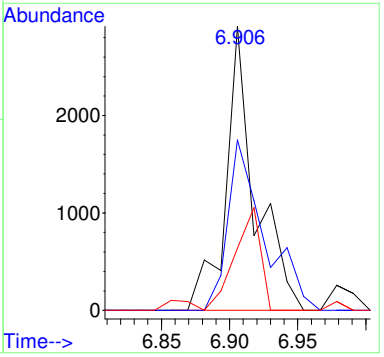


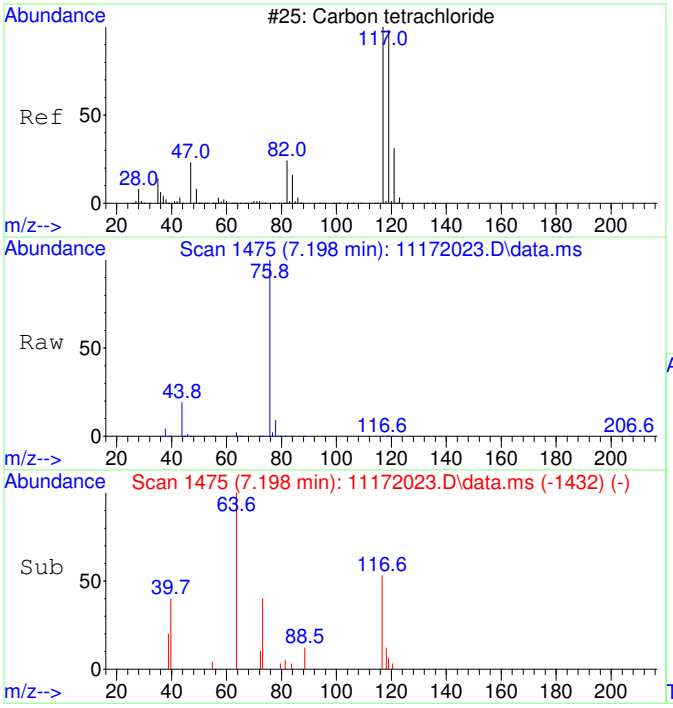


#31
1,1,1-Trichloroethane SCAN
Concen: 230.04 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 97 Resp: 4381

Ion	Ratio	Lower	Upper
97	100		
99	74.4	43.6	103.6
61	34.7	18.0	78.0

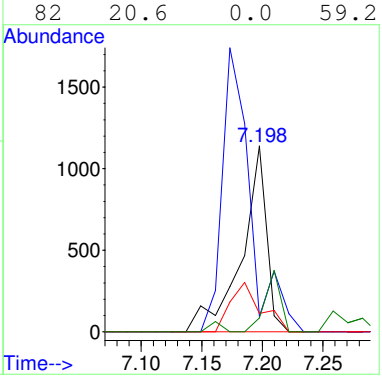


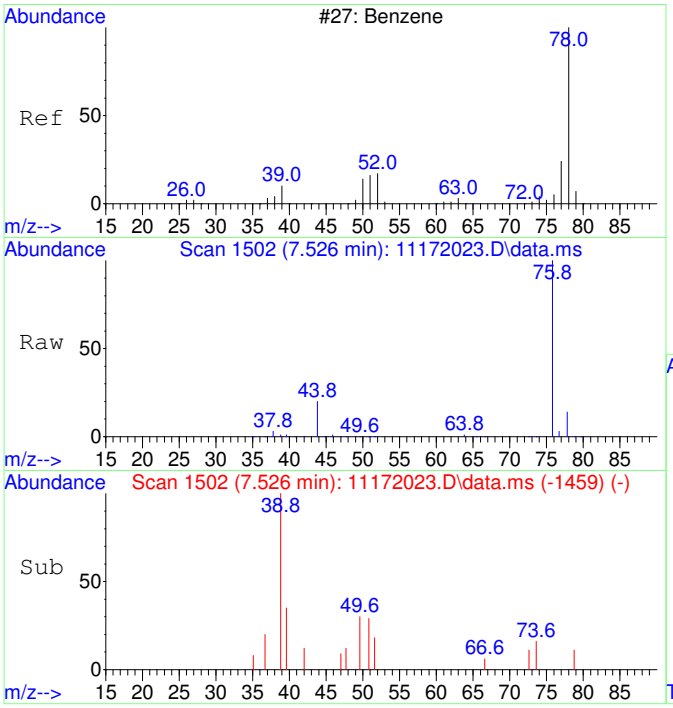


#32
Carbon tetrachloride SCAN
Concen: 82.35 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. 0.024 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:117 Resp: 1636

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	20.6	0.0	59.2

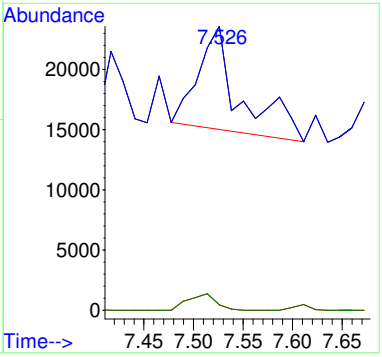


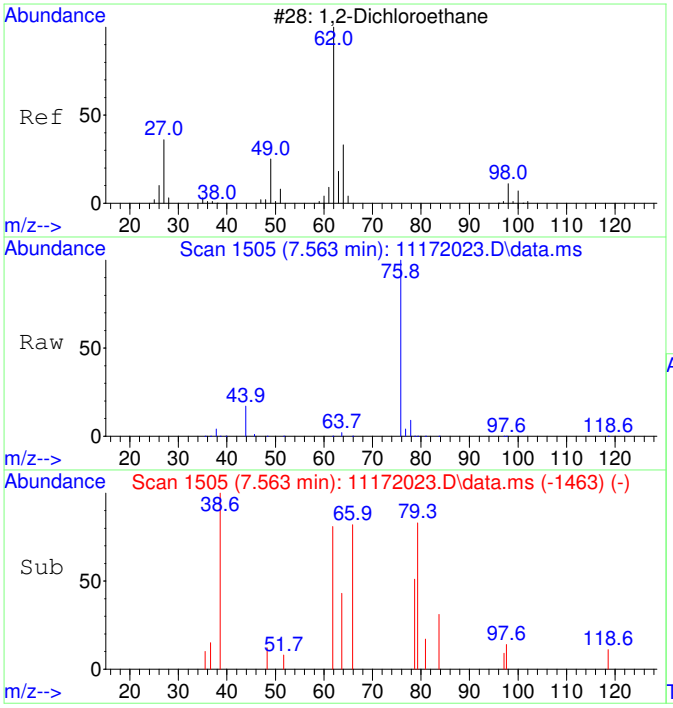


#33
Benzene SCAN
Concen: 462.02 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. 0.024 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 78 Resp: 24227

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	11.3	0.0	47.9
51	11.3	0.0	44.1

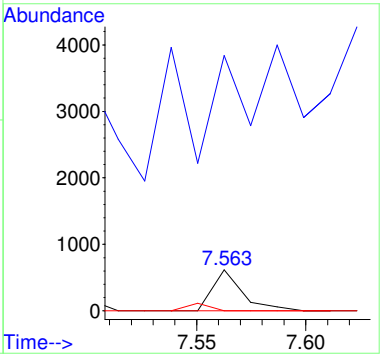


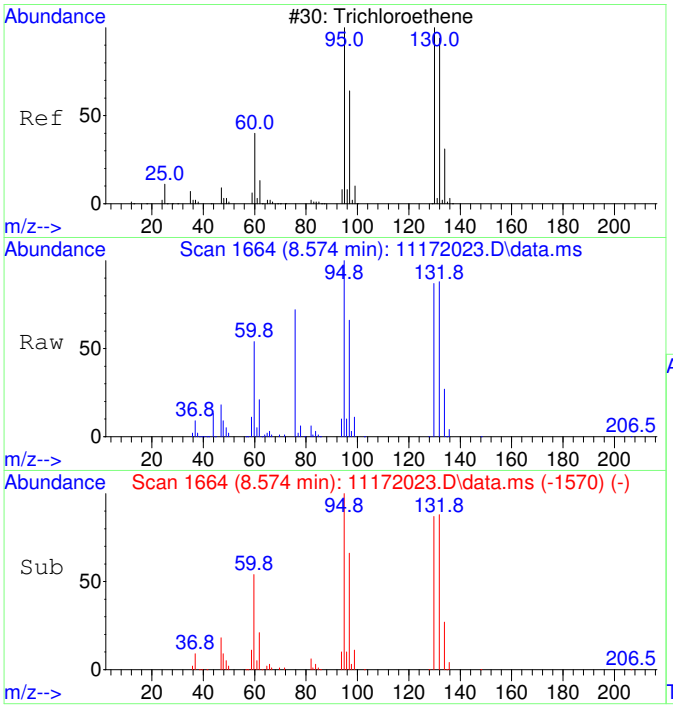


#34
1,2-Dichloroethane SCAN
Concen: 30.42 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 62 Resp: 589

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	14.1	3.9	63.9

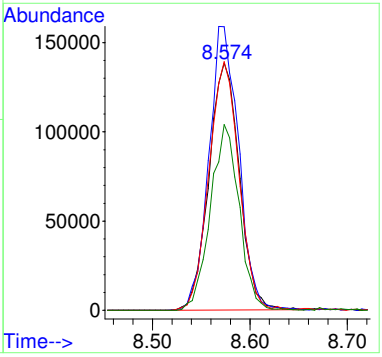


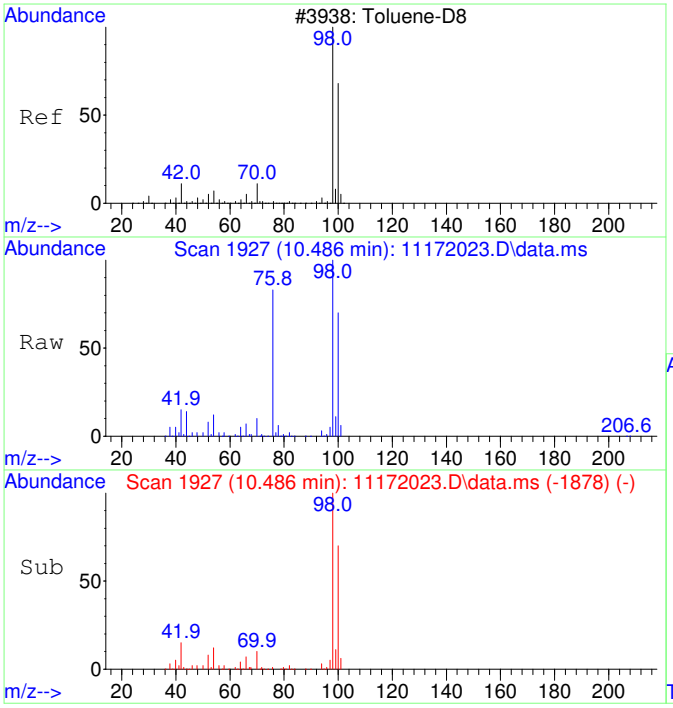


#35
Trichloroethene SCAN
Concen: 20914.72 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:130 Resp: 301385

Ion	Ratio	Lower	Upper
130	100		
95	112.2	60.5	120.5
132	98.9	59.6	119.6
97	70.8	28.2	88.2

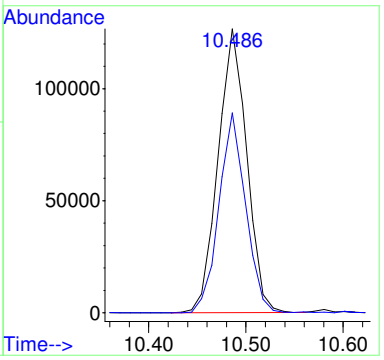


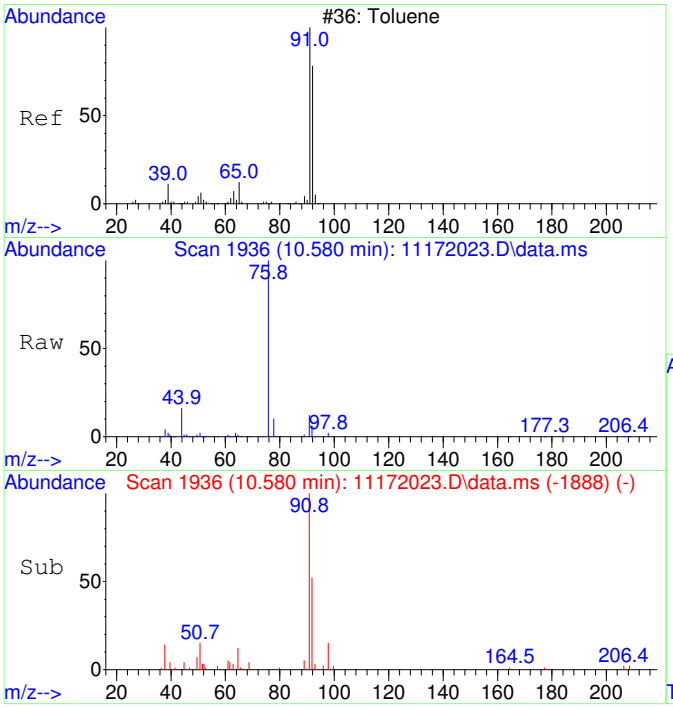


#36
Toluene-d8 SCAN
Concen: 4467.19 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 98 Resp: 258334

Ion	Ratio	Lower	Upper
98	100		
100	65.4	40.0	100.0

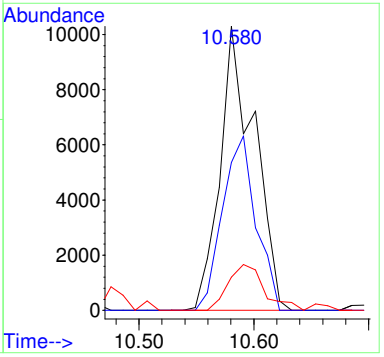


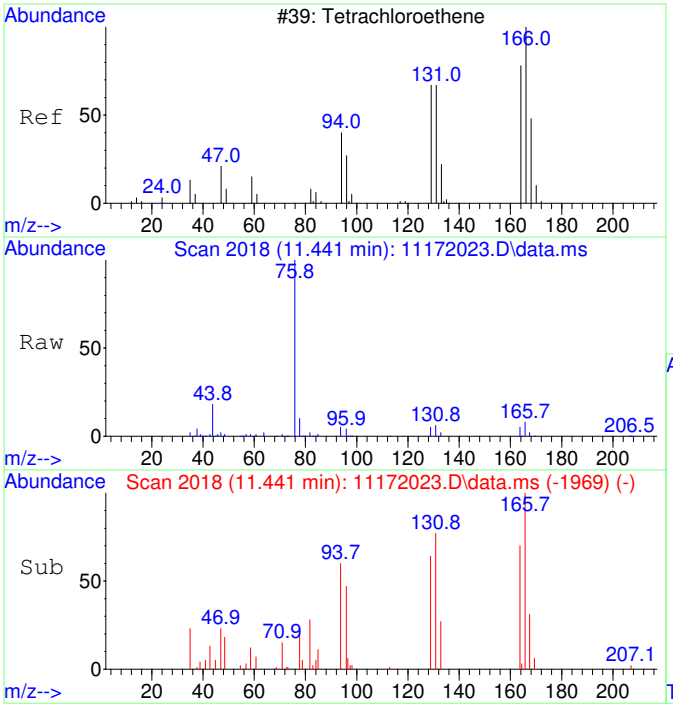


#37
Toluene SCAN
Concen: 289.46 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 21437

Ion	Ratio	Lower	Upper
91	100		
92	59.9	28.3	88.3
65	16.9	0.0	41.0

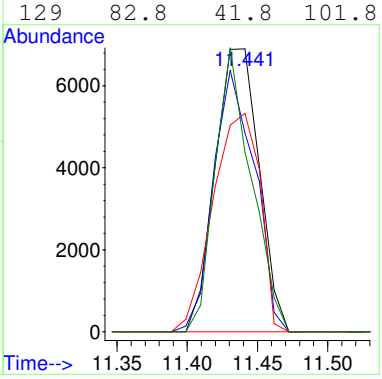


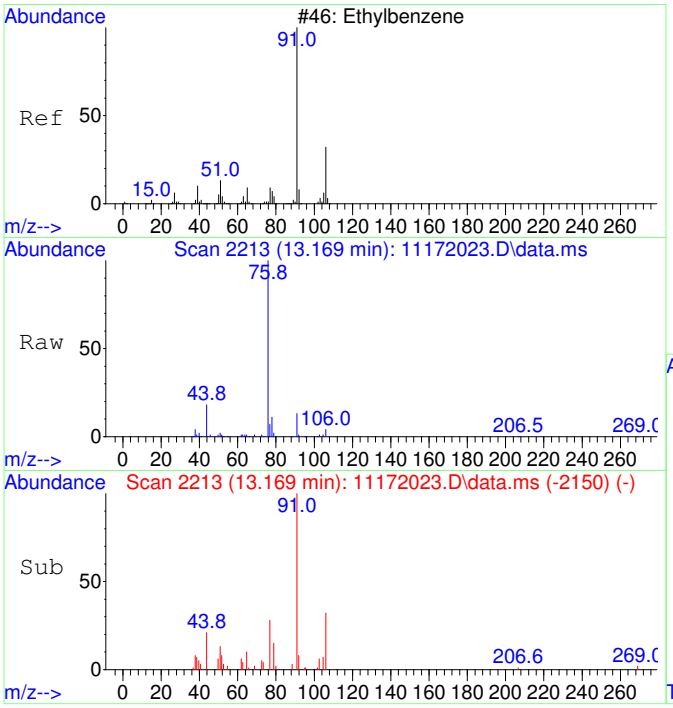


#39
Tetrachloroethene SCAN
Concen: 848.17 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:166 Resp: 15091

Ion	Ratio	Lower	Upper
166	100		
164	86.5	50.9	110.9
131	82.8	38.7	98.7
129	82.8	41.8	101.8

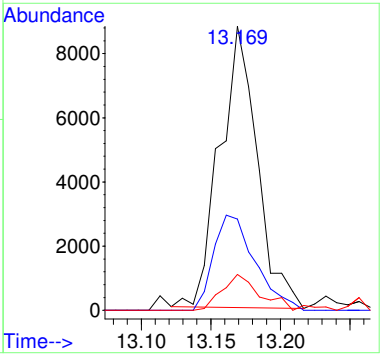


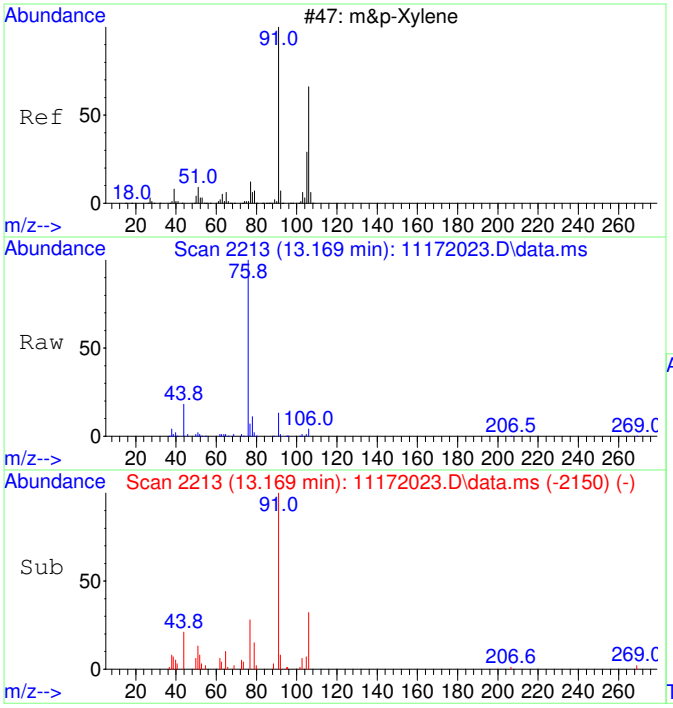


#42
Ethylbenzene SCAN
Concen: 121.53 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 16397

Ion	Ratio	Lower	Upper
91	100		
106	37.6	23.1	83.1
51	13.7	0.0	40.1

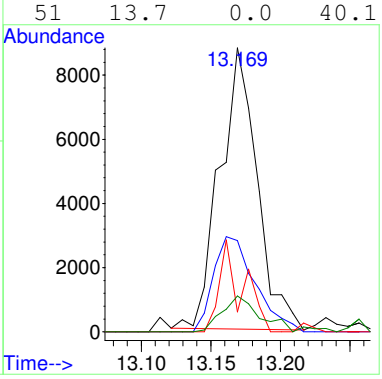


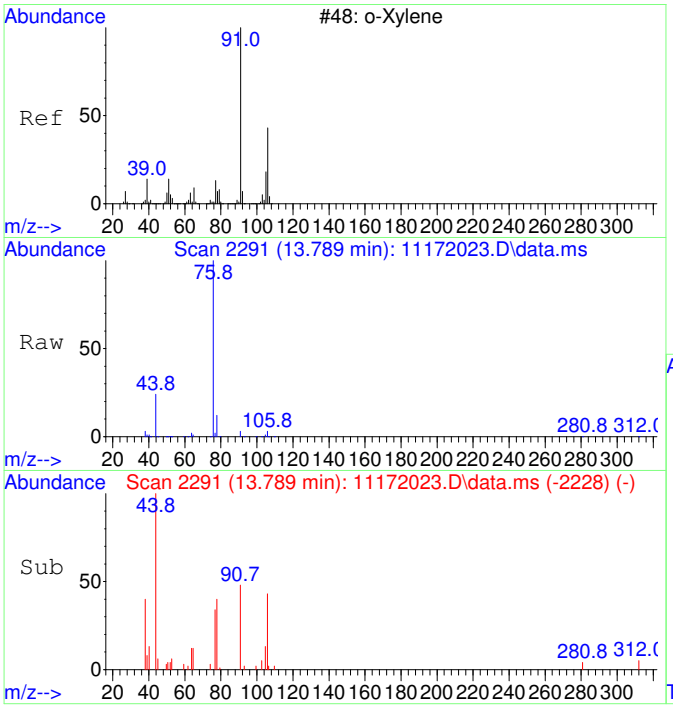


#43
m&p-Xylene SCAN
Concen: 121.53 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 16397

Ion	Ratio	Lower	Upper
91	100		
106	37.6	23.1	83.1
105	20.4	0.0	54.7
51	13.7	0.0	40.1

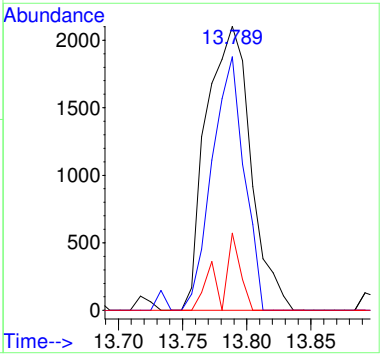


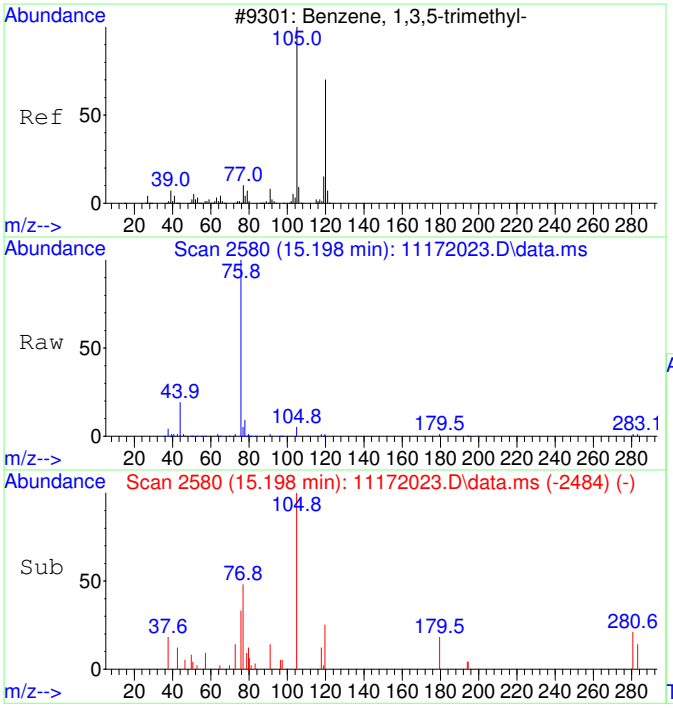


#44
o-Xylene SCAN
Concen: 70.13 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion: 91 Resp: 5065

Ion	Ratio	Lower	Upper
91	100		
106	64.5	18.0	78.0
105	12.1	0.0	56.6

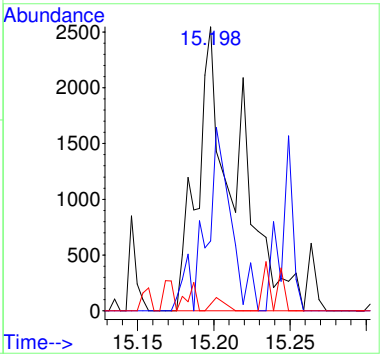


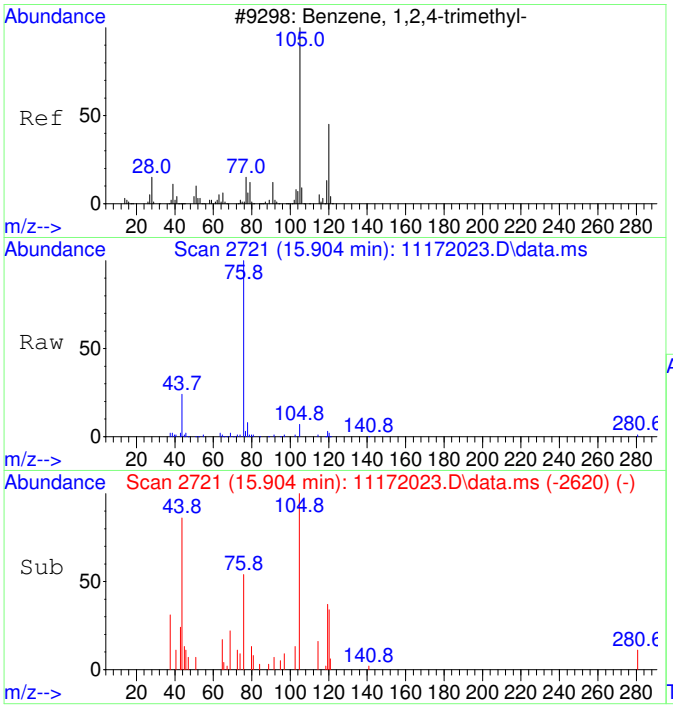


#46
1,3,5-Trimethylbenzene SCAN
Concen: 60.32 ug/L
RT: 15.198 min Scan# 2580
Delta R.T. -0.146 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:105 Resp: 4591

Ion	Ratio	Lower	Upper
105	100		
120	34.5	18.3	78.3
119	1.5	0.0	43.1

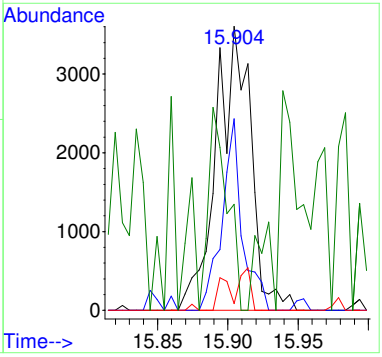




#47
1,2,4-Trimethylbenzene SCAN
Concen: 79.42 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172023.D
Acq: 17 Nov 2020 16:35

Tgt Ion:105 Resp: 6185

Ion	Ratio	Lower	Upper
105	100		
120	39.2	16.9	76.9
119	4.1	0.0	41.9
77	0.0	0.0	42.3



2011017-13

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172024.D
Acq On : 17 Nov 2020 16:58
InstName : AG5975C
Operator : TD
Sample : 2011017-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 18 06:16:43 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

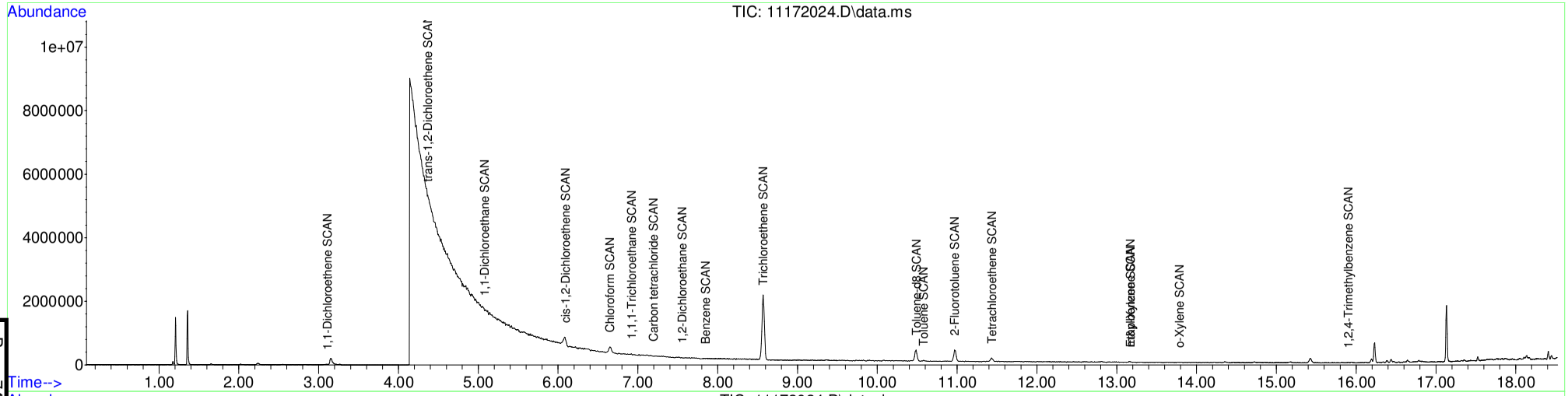
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	629655	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	538277	4366.94 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.34%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	16108	640.65 ug/L	84
3] trans-1,2-Dichloroethene	4.356	61	21347	734.85 ug/L	97
4] 1,1-Dichloroethane	5.072	63	18717	517.60 ug/L	96
5] cis-1,2-Dichloroethene	6.081	61	392656	10286.86 ug/L	99
6] Chloroform	6.651	83	350091	8960.81 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	14967	352.75 ug/L	100
8] Carbon tetrachloride	7.174	117	4007	100.34 ug/L	100
9] Benzene	7.503	78	18077	168.97 ug/L	63
10] 1,2-Dichloroethane	7.539	62	1471	38.52 ug/L #	1
11] Trichloroethene	8.569	130	1497597	46493.56 ug/L **oc**	94
13] Toluene	10.581	91	40787	259.55 ug/L	98
15] Tetrachloroethene	11.432	166	78891	1734.70 ug/L	100
18] Ethylbenzene	12.972	91	11081	57.93 ug/L	97
19] m&p-Xylene	13.162	91	22071	147.63 ug/L	94
20] o-Xylene	13.782	91	11616	72.73 ug/L	95
23] 1,2,4-Trimethylbenzene	15.901	105	9341	52.90 ug/L	90
25) 2-Fluorotoluene SCAN	10.968	109	301308	4908.92 ug/L	98
26) 1,1-Dichloroethene SCAN	3.107	61	1546	118.60 ug/L	84
27) trans-1,2-Dichloroethe...	4.361	61	13379	829.44 ug/L #	65
28) 1,1-Dichloroethane SCAN	5.078	63	10334	553.58 ug/L	85
29) cis-1,2-Dichloroethene...	6.086	61	215082	10753.79 ug/L #	86
30) Chloroform SCAN	6.650	83	177552	8184.60 ug/L	93
31) 1,1,1-Trichloroethane ...	6.918	97	8547	432.35 ug/L #	57
32) Carbon tetrachloride SCAN	7.197	117	1808	87.68 ug/L #	57
33) Benzene SCAN	7.849	78	1956	35.94 ug/L	93
34) 1,2-Dichloroethane SCAN	7.550	62	466	23.19 ug/L #	66
35) Trichloroethene SCAN	8.573	130	704072	47070.03 ug/L	86
36) Toluene-d8 SCAN	10.486	98	253681	4226.08 ug/L	99
37) Toluene SCAN	10.580	91	21980	285.92 ug/L	92
39) Tetrachloroethene SCAN	11.430	166	33135	1794.11 ug/L	97
42) Ethylbenzene SCAN	13.169	91	12567	89.73 ug/L	92
43) m&p-Xylene SCAN	13.169	91	12567	89.73 ug/L	92
44) o-Xylene SCAN	13.789	91	5995	79.97 ug/L	67
47) 1,2,4-Trimethylbenzene...	15.904	105	4951	61.24 ug/L #	79

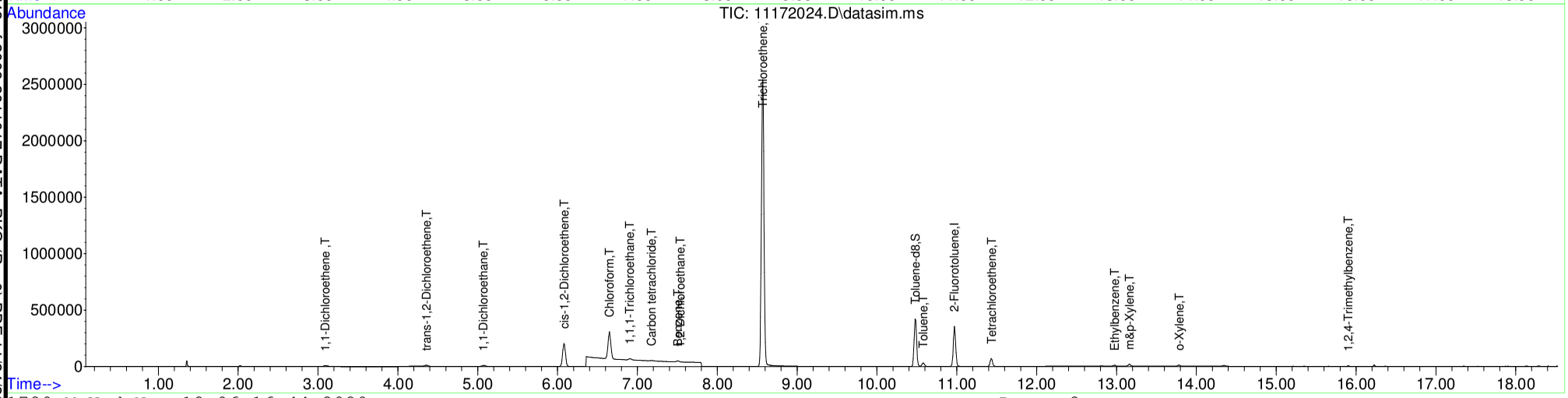
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172024.D
Acq On : 17 Nov 2020 16:58
InstName : AG5975C
Operator : TD
Sample : 2011017-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 18 06:16:43 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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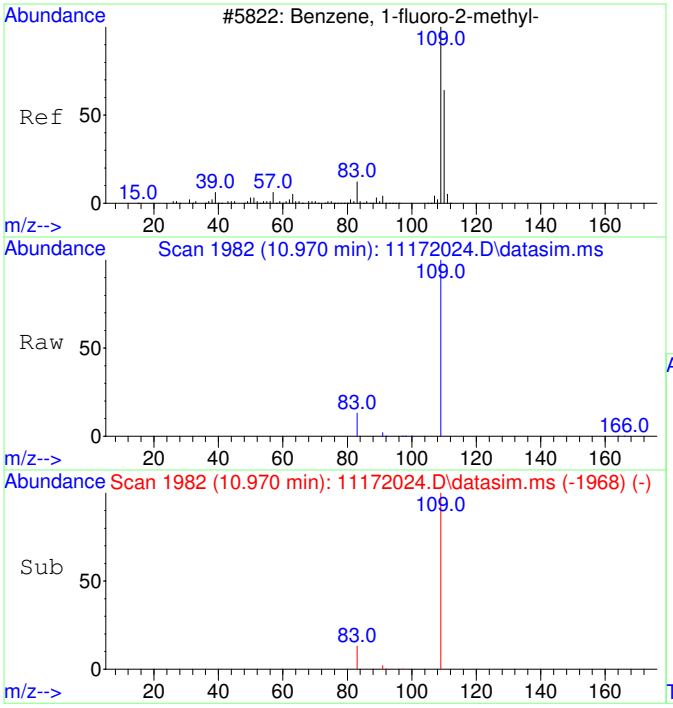
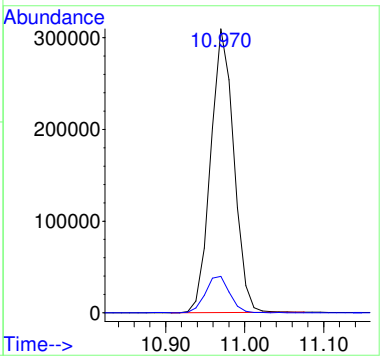
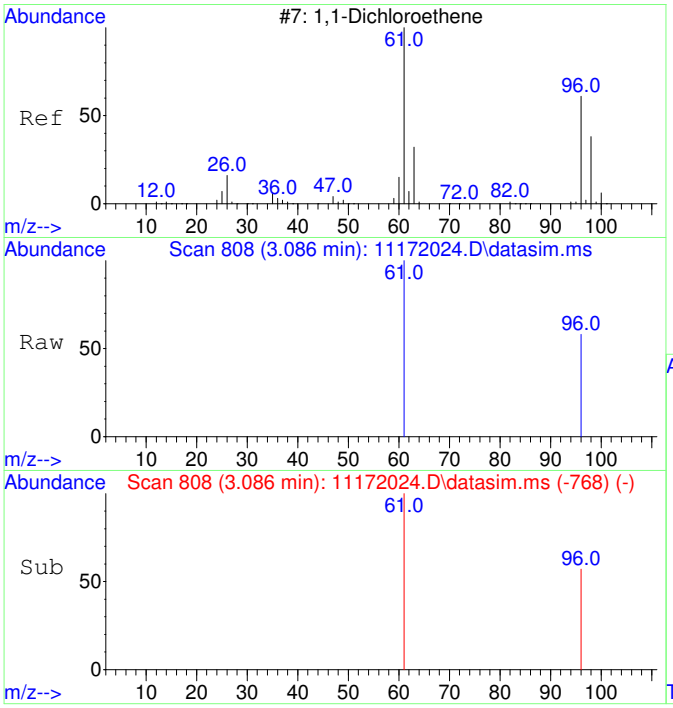


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:109 Resp: 629655

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

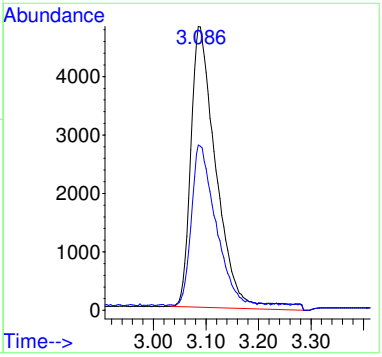




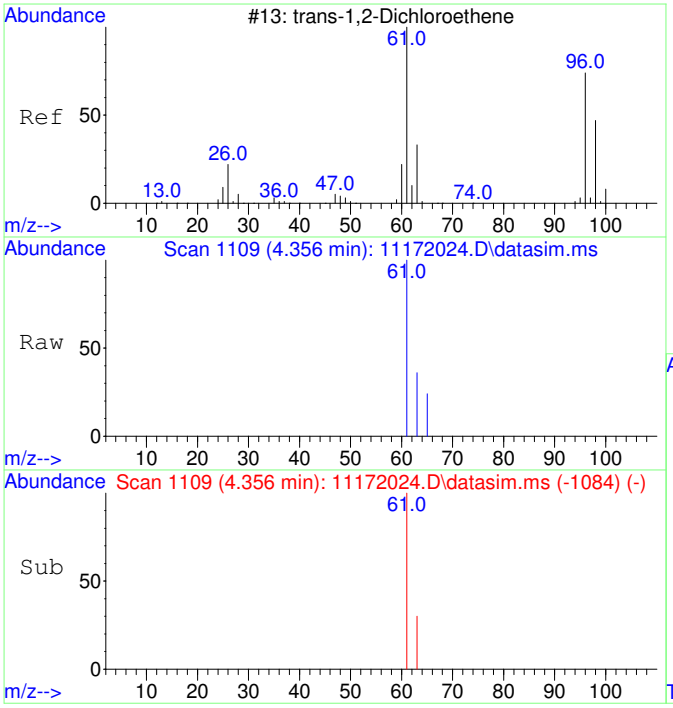
#2
1,1-Dichloroethene
Concen: 640.65 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 61 Resp: 16108

Ion	Ratio	Lower	Upper
61	100		
96	54.0	37.2	97.2



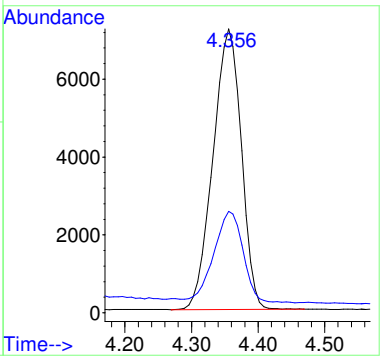
Before MI:
IMPROPER
BASELINE

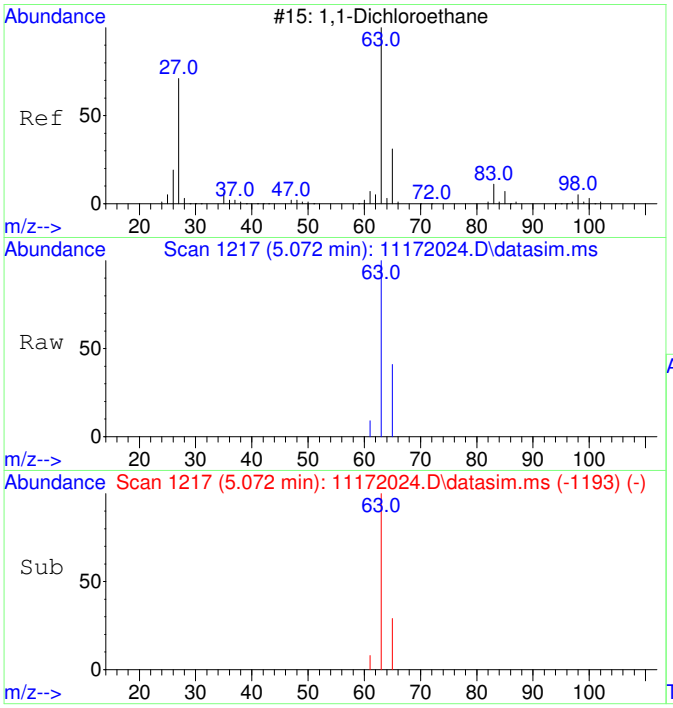


#3
trans-1,2-Dichloroethene
Concen: 734.85 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 61 Resp: 21347

Ion	Ratio	Lower	Upper
61	100		
63	33.9	2.4	62.4

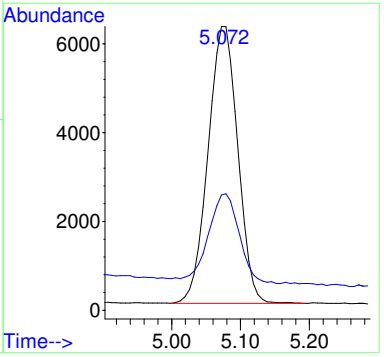


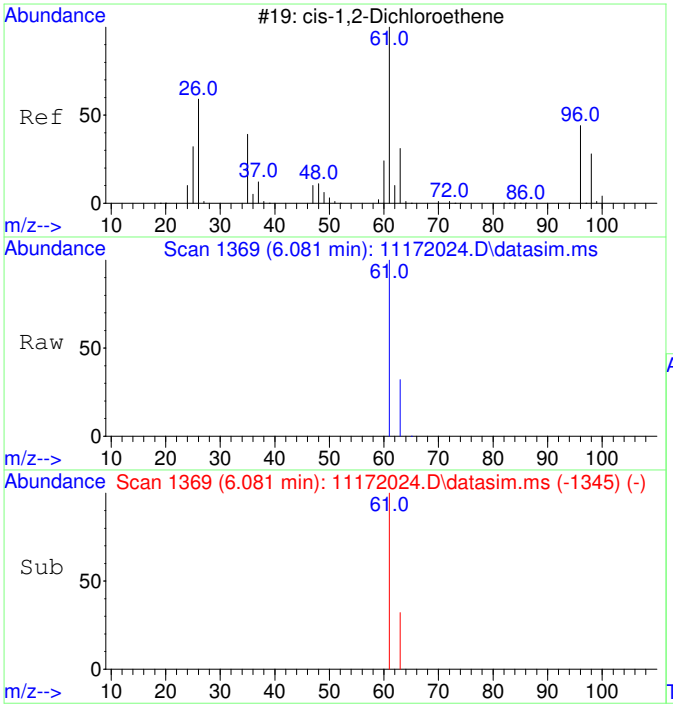


#4
1,1-Dichloroethane
Concen: 517.60 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.006 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 63 Resp: 18717

Ion	Ratio	Lower	Upper
63	100		
65	34.2	1.8	61.8

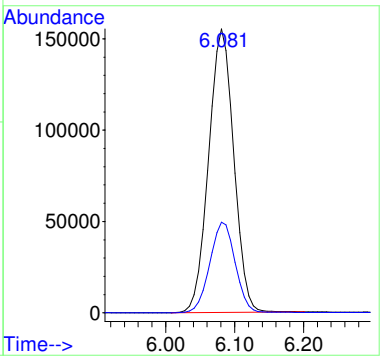


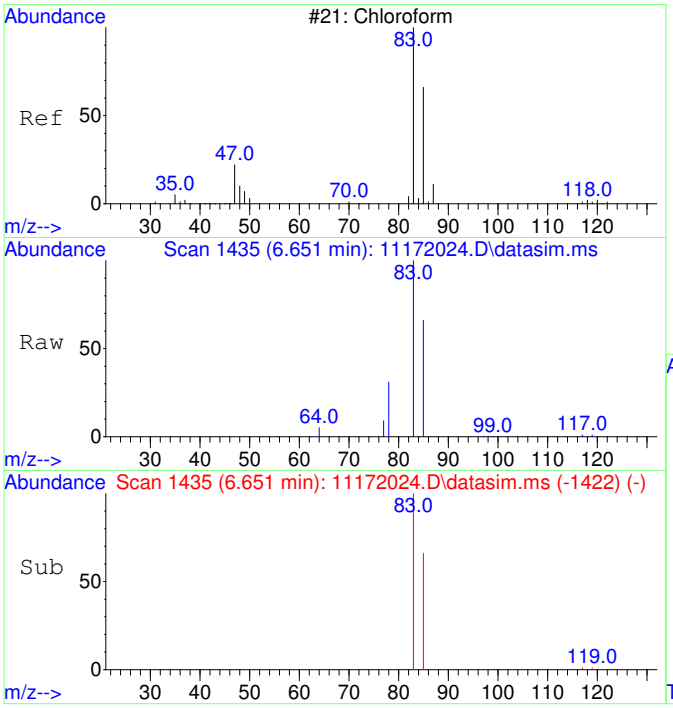


#5
cis-1,2-Dichloroethene
Concen: 10286.86 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.006 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 61 Resp: 392656

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.5	62.5

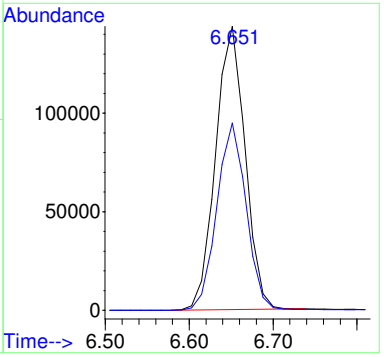


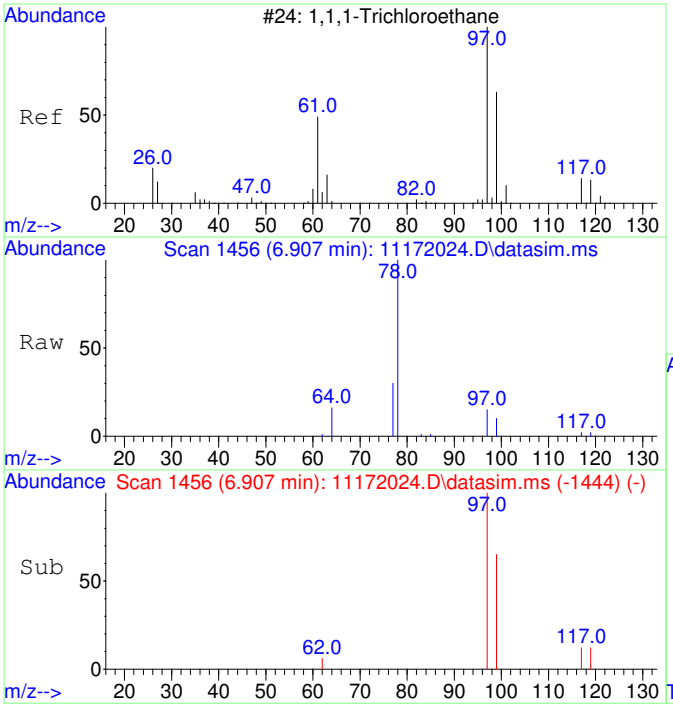


#6
Chloroform
Concen: 8960.81 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 83 Resp: 350091

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.1	95.1

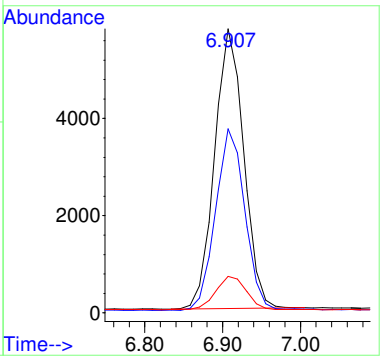


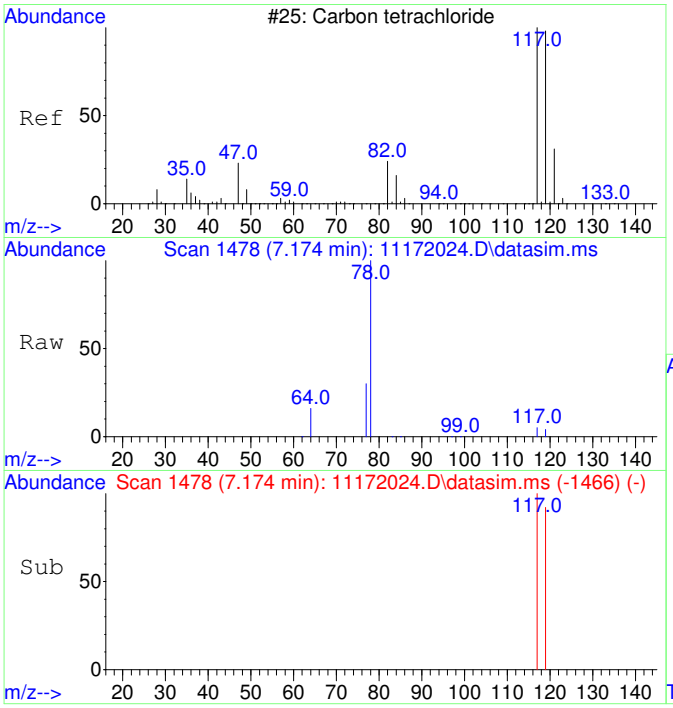


#7
1,1,1-Trichloroethane
Concen: 352.75 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 97 Resp: 14967

Ion	Ratio	Lower	Upper
97	100		
99	64.7	34.6	94.6
117	12.4	0.0	43.2

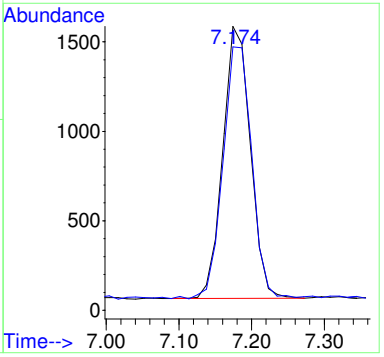


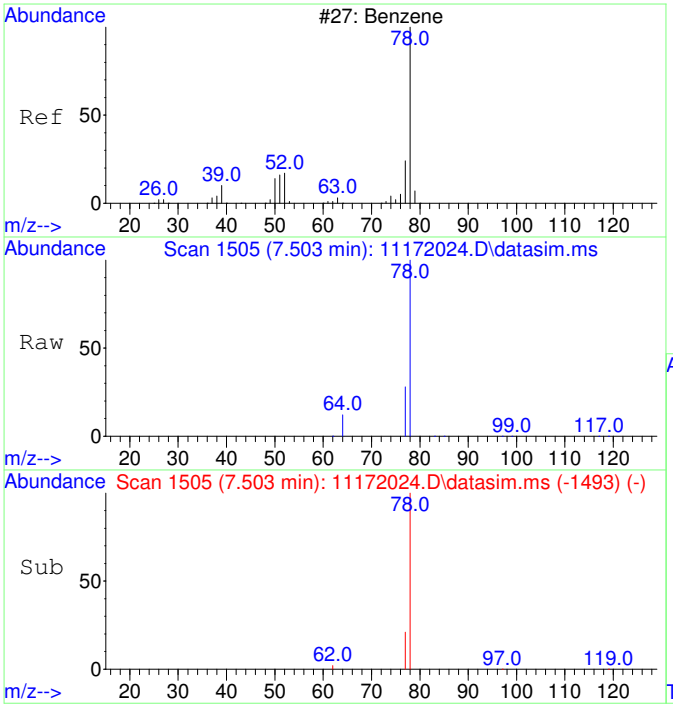


#8
Carbon tetrachloride
Concen: 100.34 ug/L
RT: 7.174 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:117 Resp: 4007

Ion	Ratio	Lower	Upper
117	100		
119	96.0	66.4	126.4

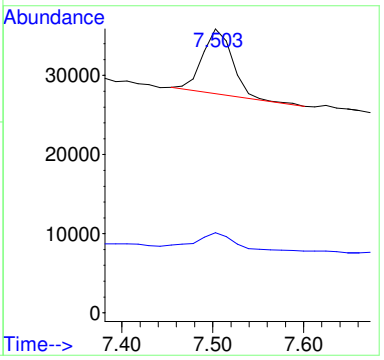


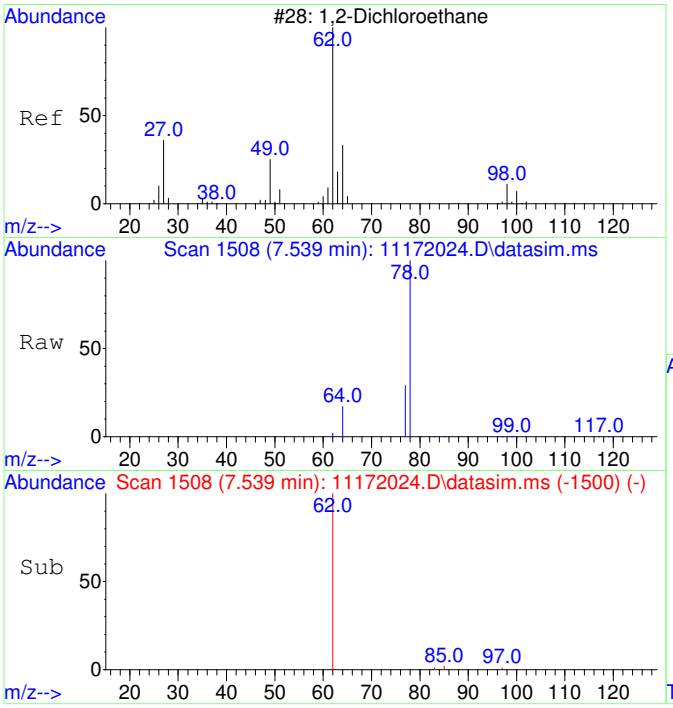


#9
Benzene
Concen: 168.97 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 78 Resp: 18077

Ion	Ratio	Lower	Upper
78	100		
77	41.4	0.0	53.2

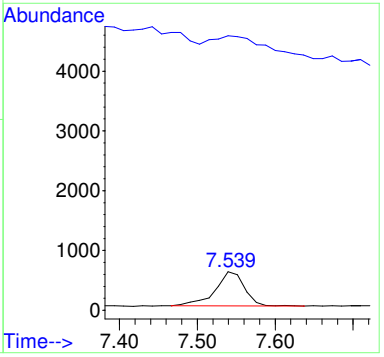


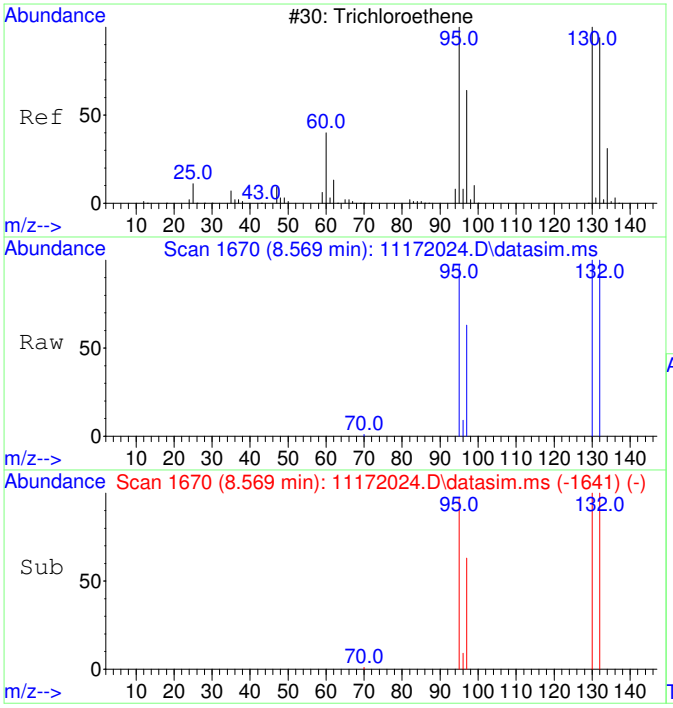


#10
1,2-Dichloroethane
Concen: 38.52 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 62 Resp: 1471

Ion	Ratio	Lower	Upper
62	100		
64	95.2	2.3	62.3#

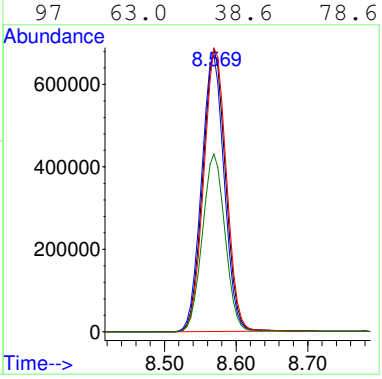


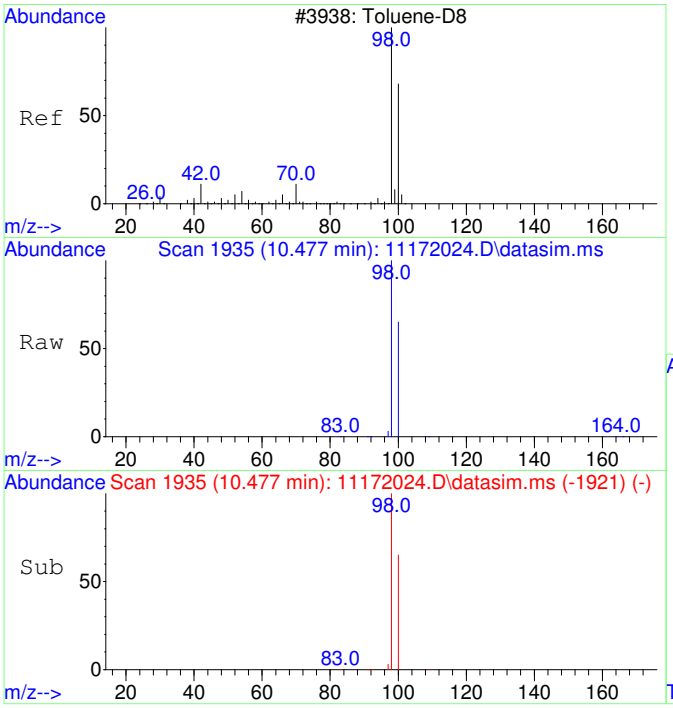


#11
Trichloroethene
Concen: 46493.56 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:130 Resp: 1497597

Ion	Ratio	Lower	Upper
130	100		
95	98.4	60.7	120.7
132	100.4	76.0	116.0
97	63.0	38.6	78.6

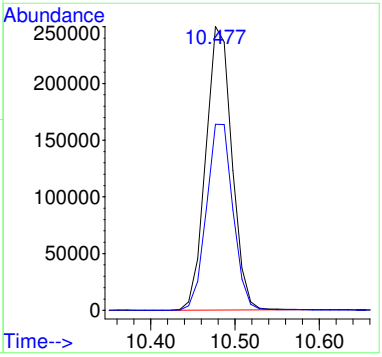


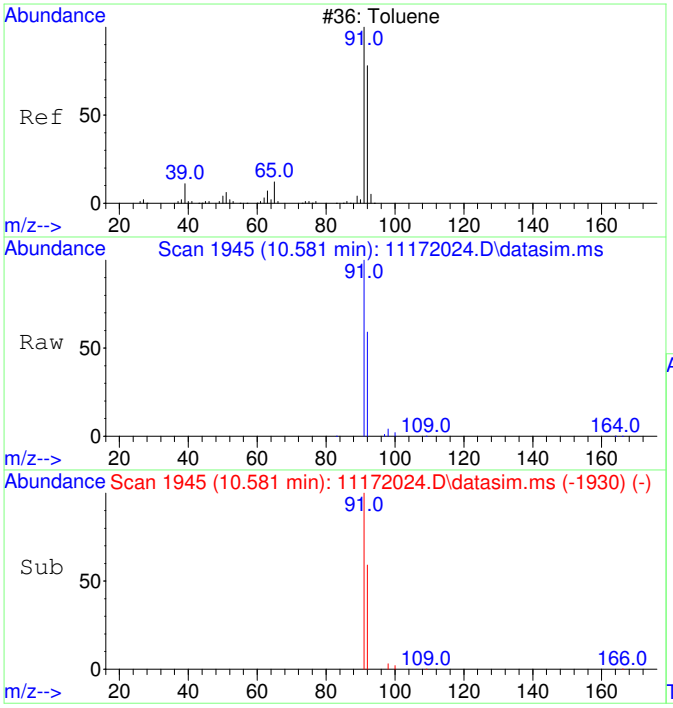


#12
Toluene-d8
Concen: 4366.94 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 98 Resp: 538277

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

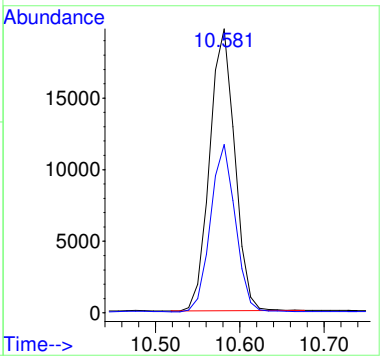


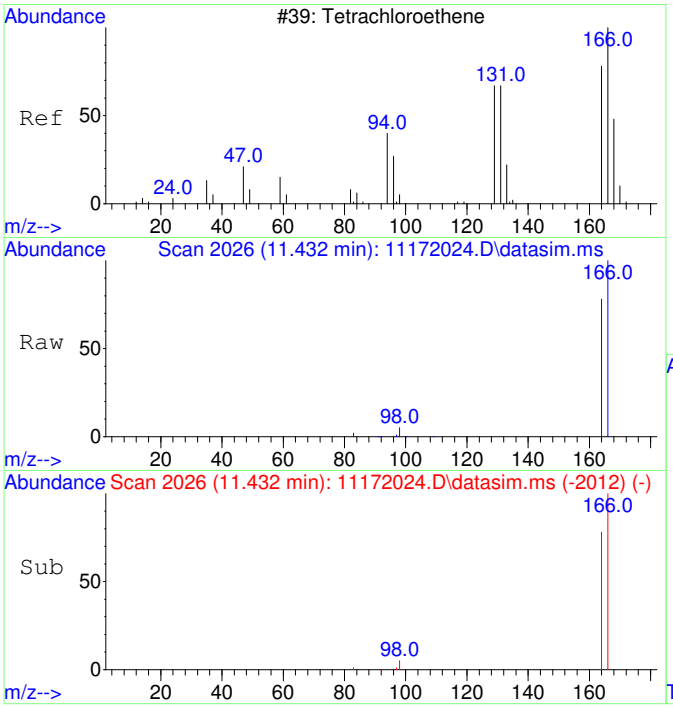


#13
Toluene
Concen: 259.55 ug/L
RT: 10.581 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 40787

Ion	Ratio	Lower	Upper
91	100		
92	58.4	29.9	89.9

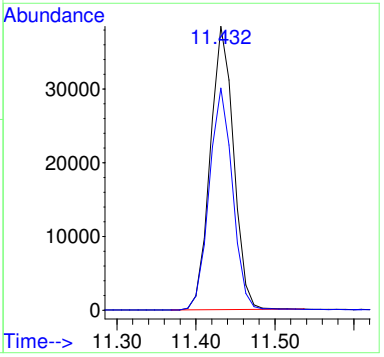


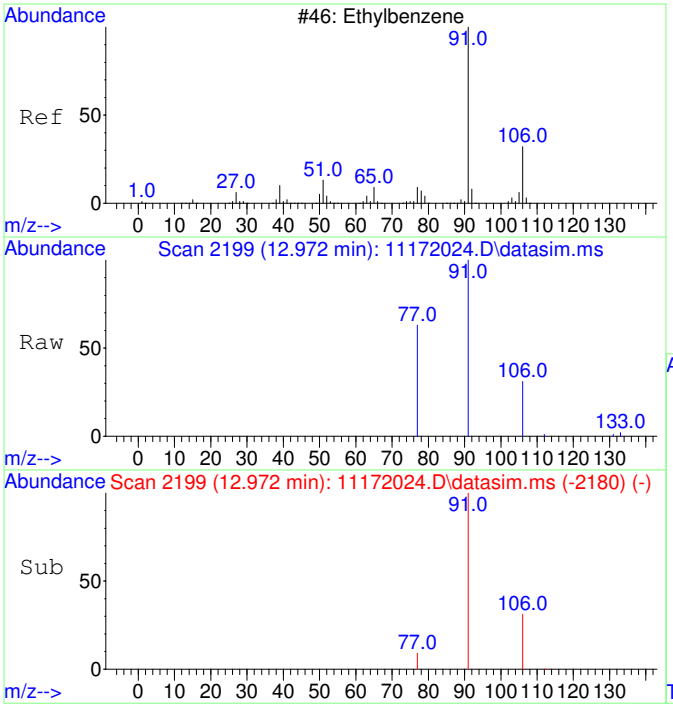


#15
Tetrachloroethene
Concen: 1734.70 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:166 Resp: 78891

Ion	Ratio	Lower	Upper
166	100		
164	77.7	47.8	107.8

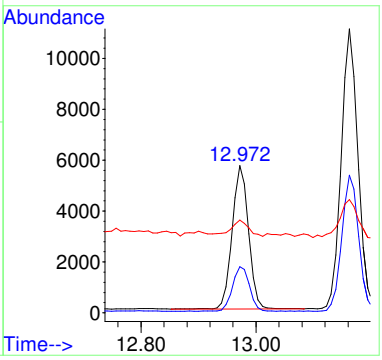


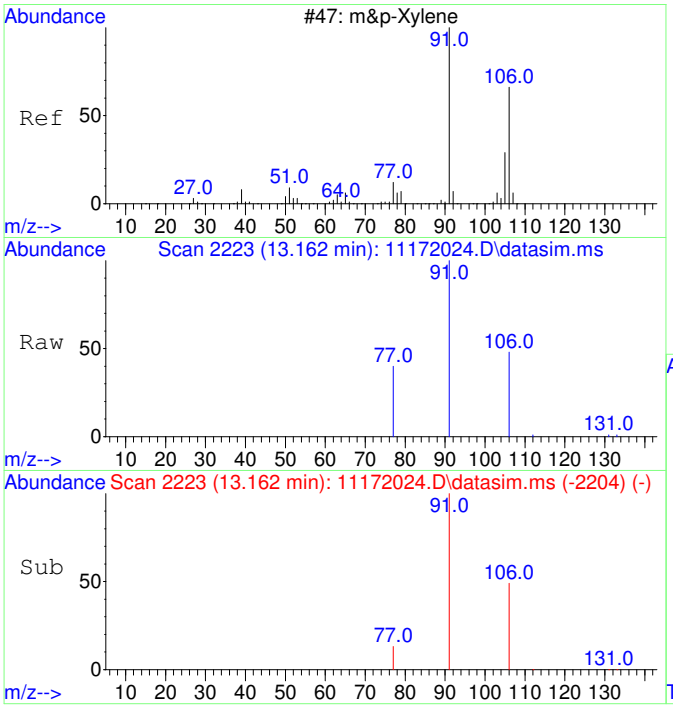


#18
Ethylbenzene
Concen: 57.93 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 11081

Ion	Ratio	Lower	Upper
91	100		
106	32.3	3.0	63.0
77	11.8	0.0	38.2

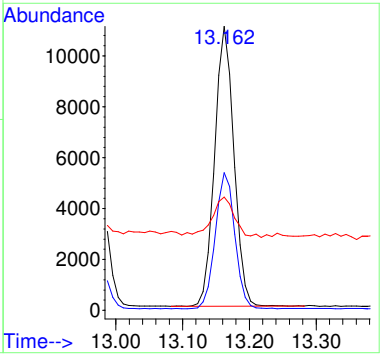


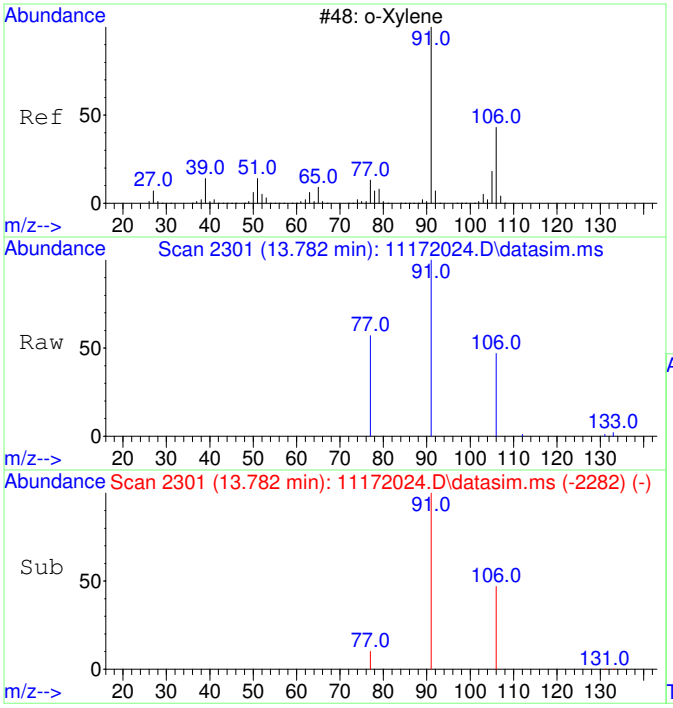


#19
m&p-Xylene
Concen: 147.63 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 22071

Ion	Ratio	Lower	Upper
91	100		
106	49.1	22.2	82.2
77	17.2	0.0	42.4

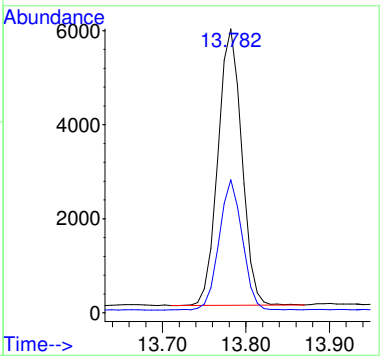


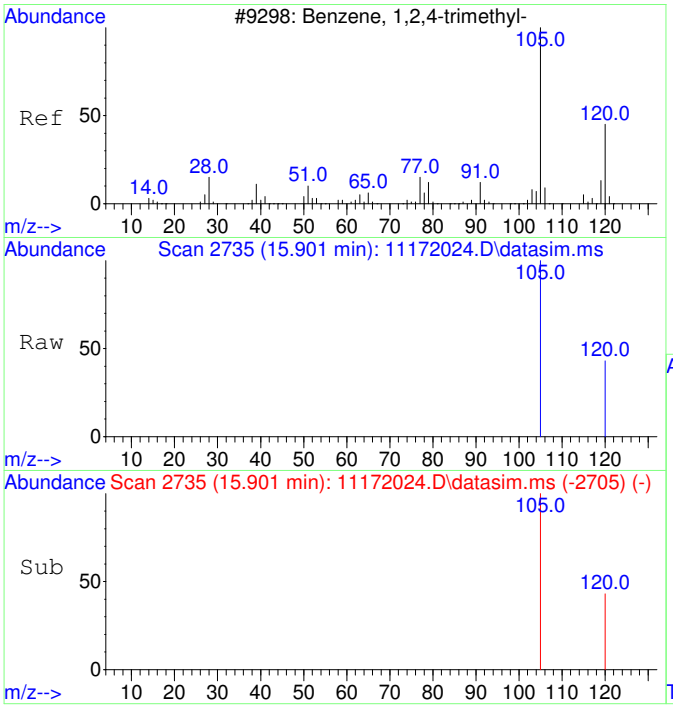


#20
o-Xylene
Concen: 72.73 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 11616

Ion	Ratio	Lower	Upper
91	100		
106	45.9	19.2	79.2

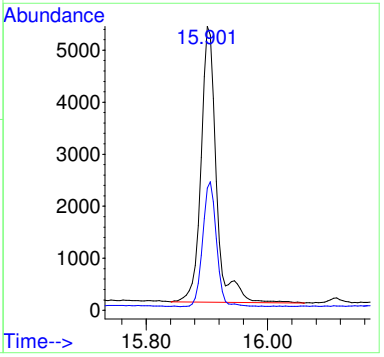


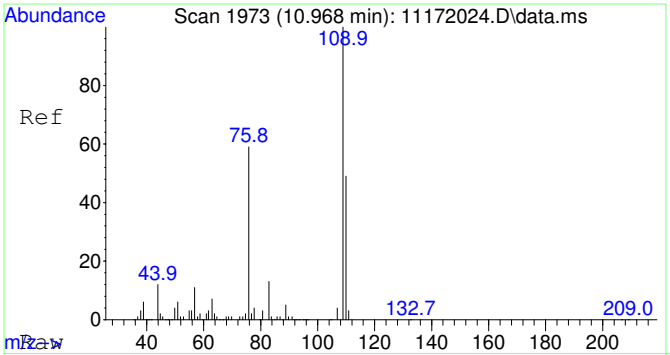


#23
1,2,4-Trimethylbenzene
Concen: 52.90 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:105 Resp: 9341

Ion	Ratio	Lower	Upper
105	100		
120	40.3	17.2	77.2

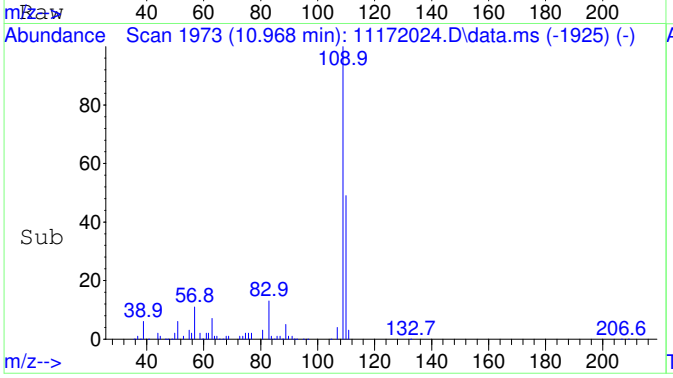


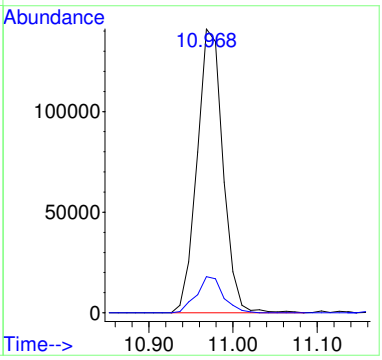


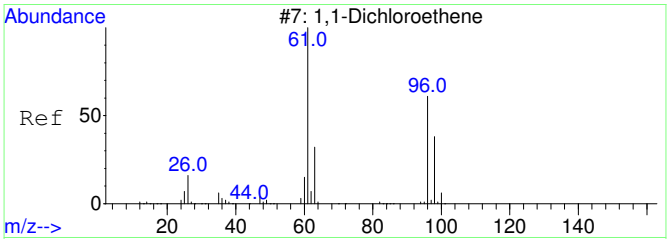
#25
2-Fluorotoluene SCAN
Concen: 4908.92 ug/L
RT: 10.968 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:109 Resp: 301308

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.8



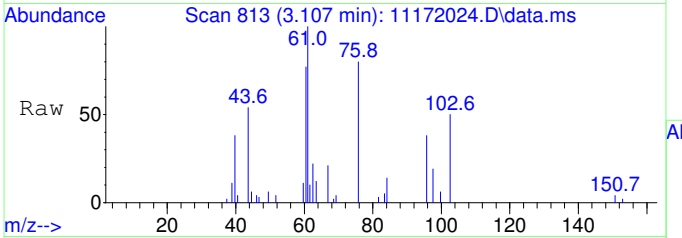


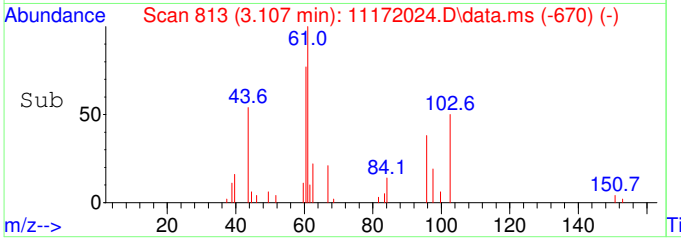


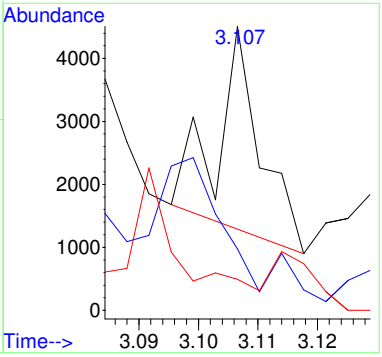
#26
1,1-Dichloroethene SCAN
Concen: 118.60 ug/L
RT: 3.107 min Scan# 813
Delta R.T. 0.029 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

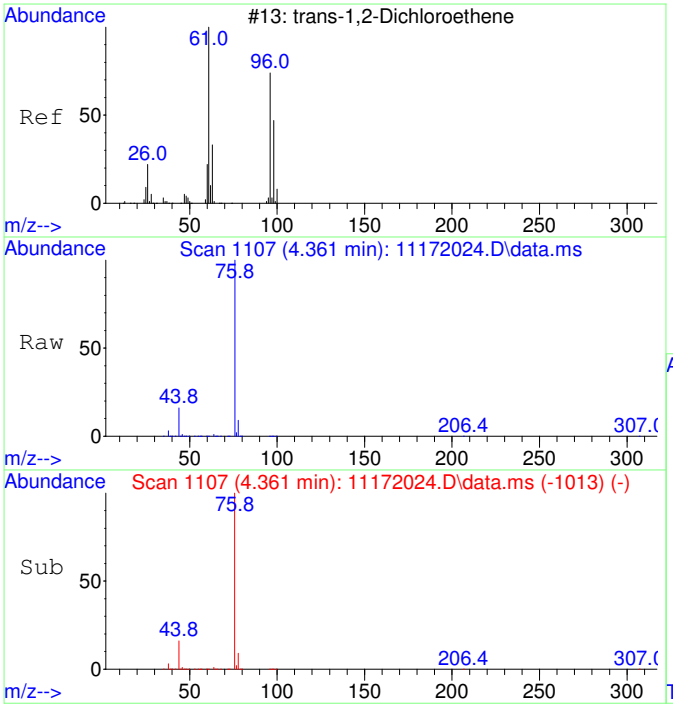
Tgt Ion: 61 Resp: 1546

Ion	Ratio	Lower	Upper
61	100		
96	65.6	33.1	93.1
98	19.4	11.2	71.2





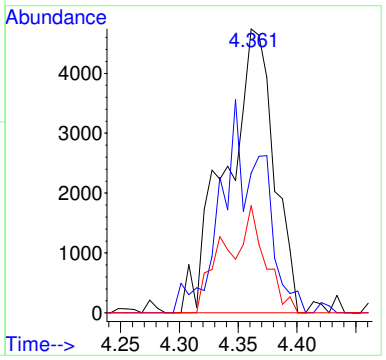


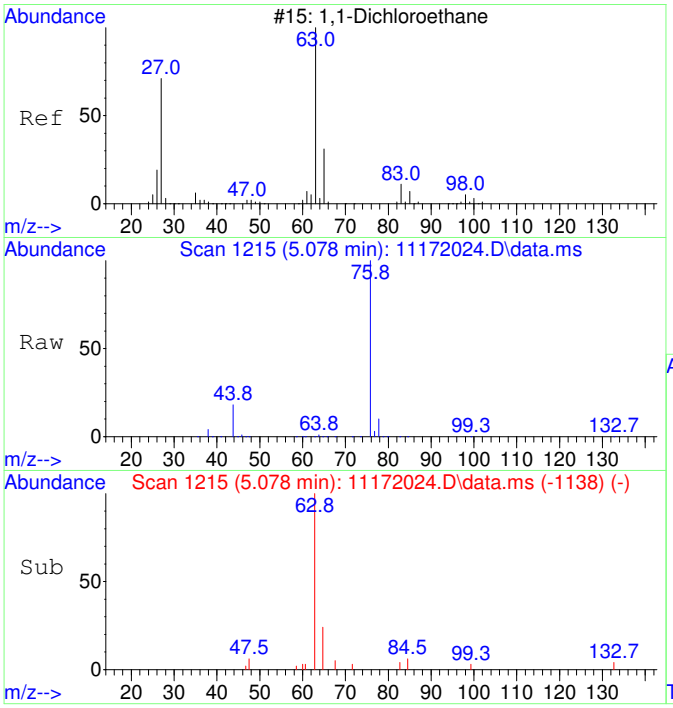


#27
trans-1,2-Dichloroethene SCAN
Concen: 829.44 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. 0.013 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 61 Resp: 13379

Ion	Ratio	Lower	Upper
61	100		
96	63.7	49.0	109.0
98	7.6	20.5	80.5#

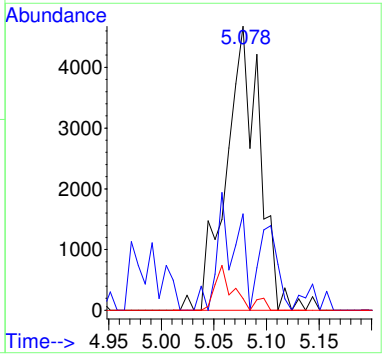


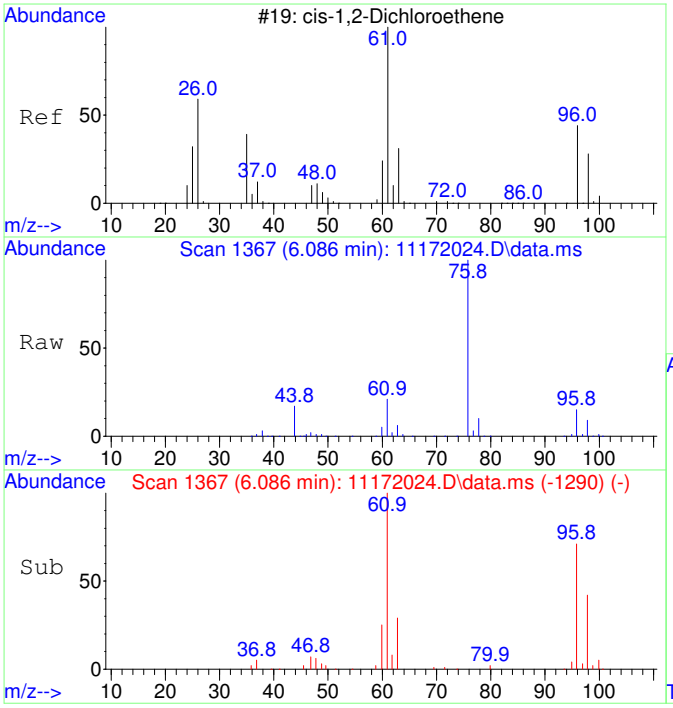


#28
1,1-Dichloroethane SCAN
Concen: 553.58 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 63 Resp: 10334

Ion	Ratio	Lower	Upper
63	100		
65	24.1	1.3	61.3
83	7.9	0.0	45.9

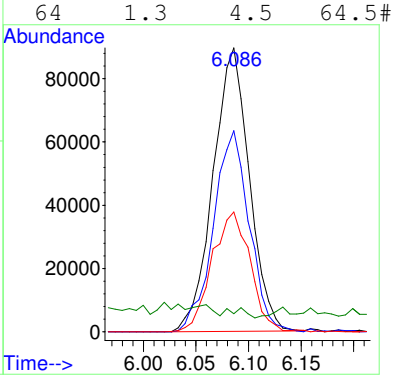


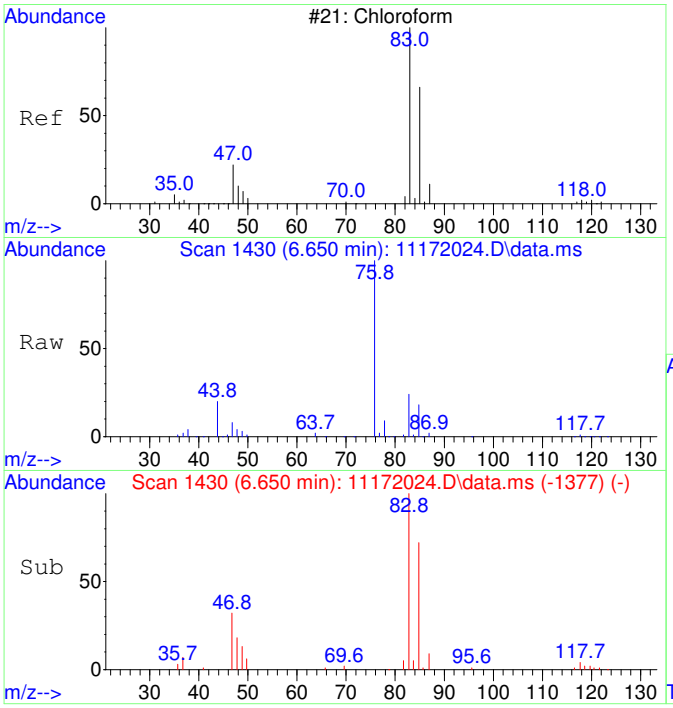


#29
cis-1,2-Dichloroethene SCAN
Concen: 10753.79 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 61 Resp: 215082

Ion	Ratio	Lower	Upper
61	100		
96	70.0	39.9	99.9
98	44.7	13.5	73.5
64	1.3	4.5	64.5#

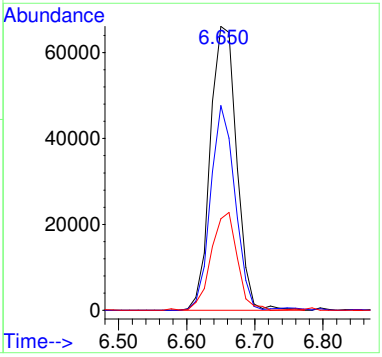


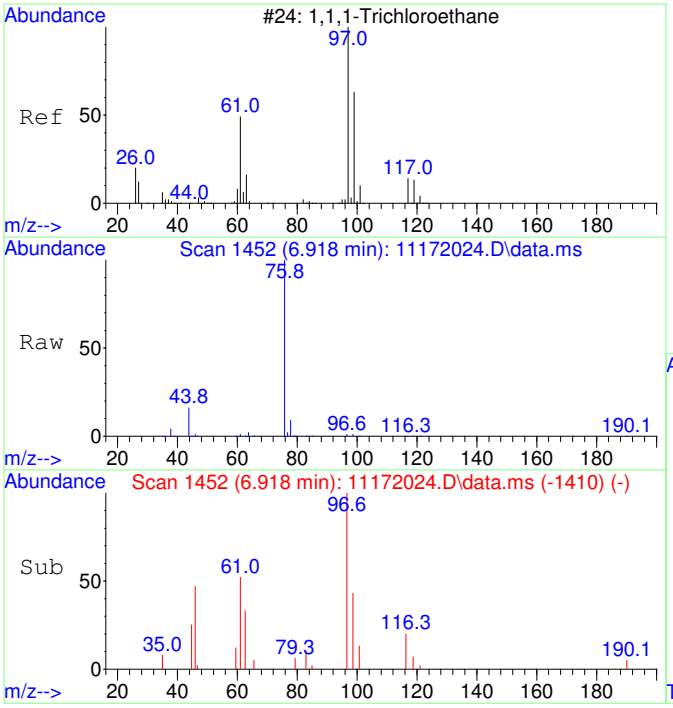


#30
Chloroform SCAN
Concen: 8184.60 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 83 Resp: 177552

Ion	Ratio	Lower	Upper
83	100		
85	66.0	34.6	94.6
47	34.1	0.0	53.4

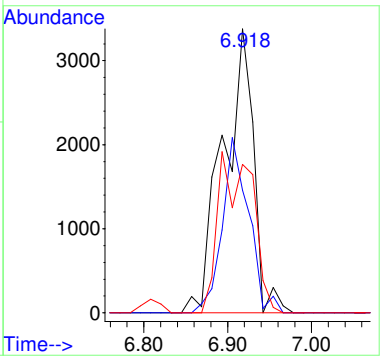


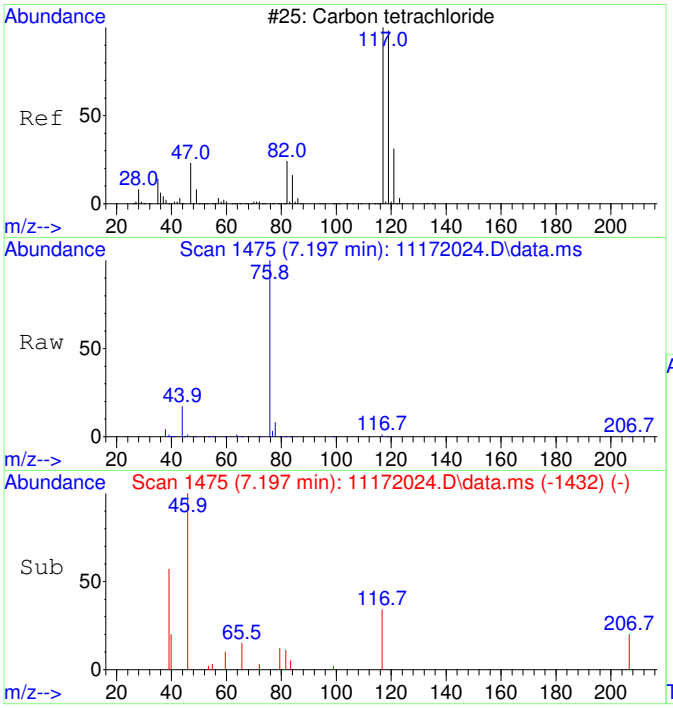


#31
1,1,1-Trichloroethane SCAN
Concen: 432.35 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 97 Resp: 8547

Ion	Ratio	Lower	Upper
97	100		
99	53.0	43.6	103.6
61	0.0	18.0	78.0#

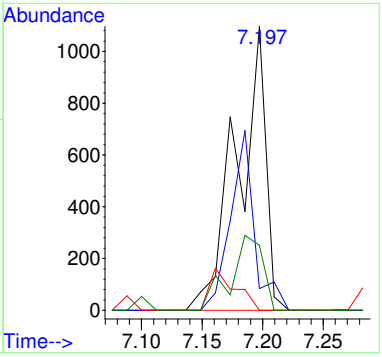


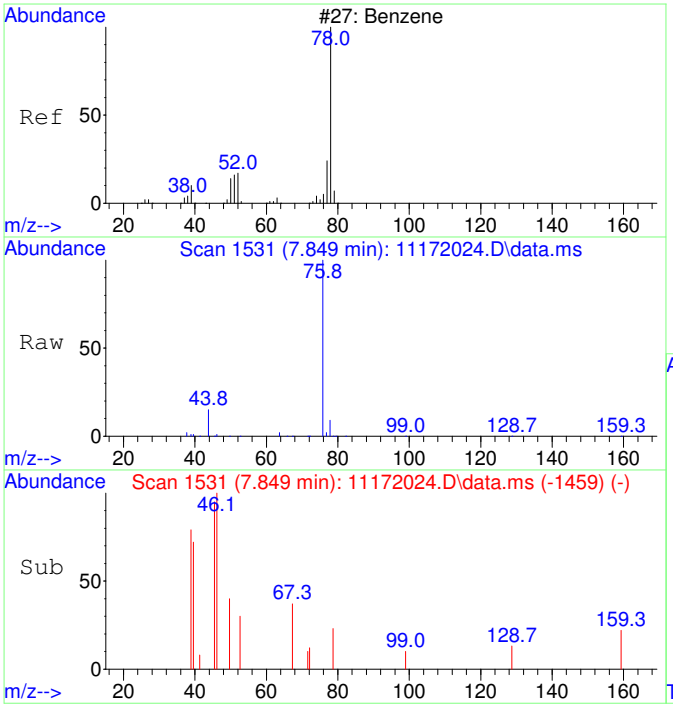


#32
Carbon tetrachloride SCAN
Concen: 87.68 ug/L
RT: 7.197 min Scan# 1475
Delta R.T. 0.024 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:117 Resp: 1808

Ion	Ratio	Lower	Upper
117	100		
119	52.5	75.5	135.5#
121	0.0	0.0	58.8
82	29.7	0.0	59.2

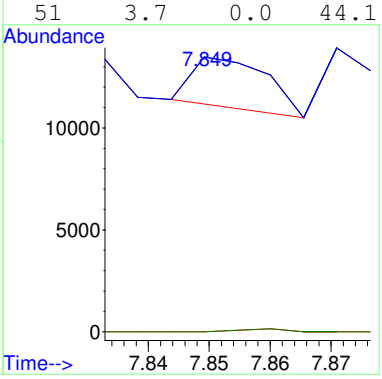


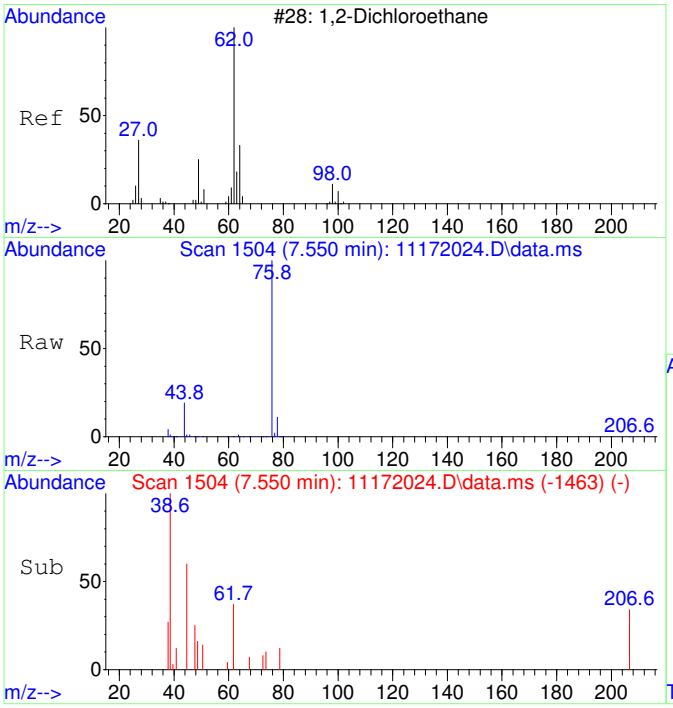


#33
Benzene SCAN
Concen: 35.94 ug/L
RT: 7.849 min Scan# 1531
Delta R.T. 0.347 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 78 Resp: 1956

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.7	0.0	47.9
51	3.7	0.0	44.1

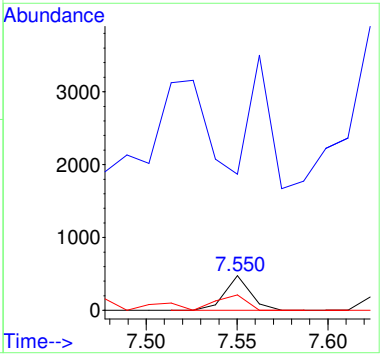


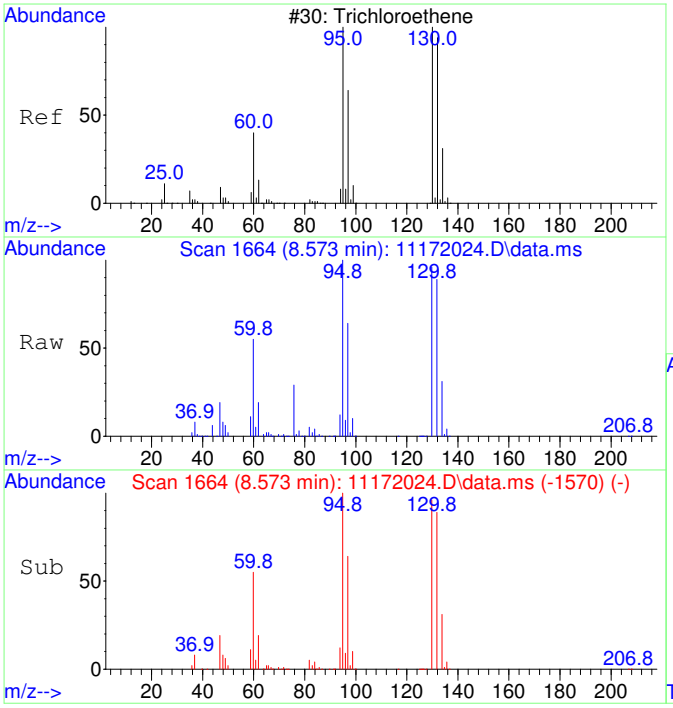


#34
1,2-Dichloroethane SCAN
Concen: 23.19 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 62 Resp: 466

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	38.2	3.9	63.9

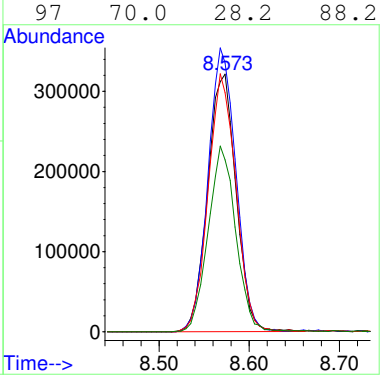


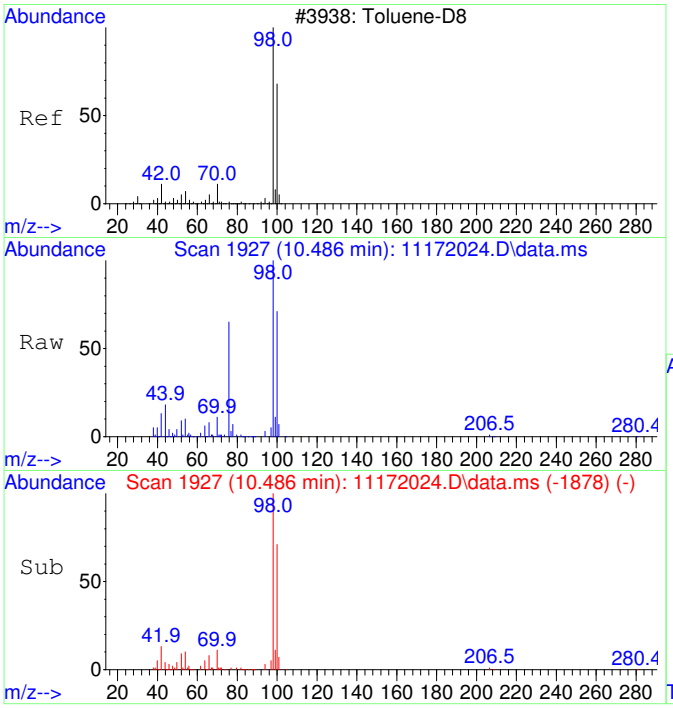


#35
Trichloroethene SCAN
Concen: 47070.03 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:130 Resp: 704072

Ion	Ratio	Lower	Upper
130	100		
95	107.4	60.5	120.5
132	97.2	59.6	119.6
97	70.0	28.2	88.2

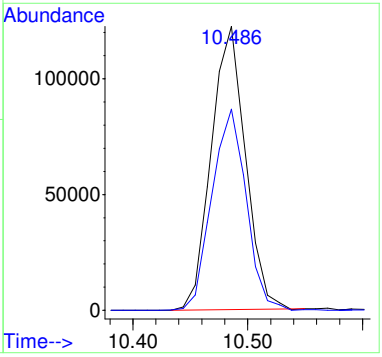


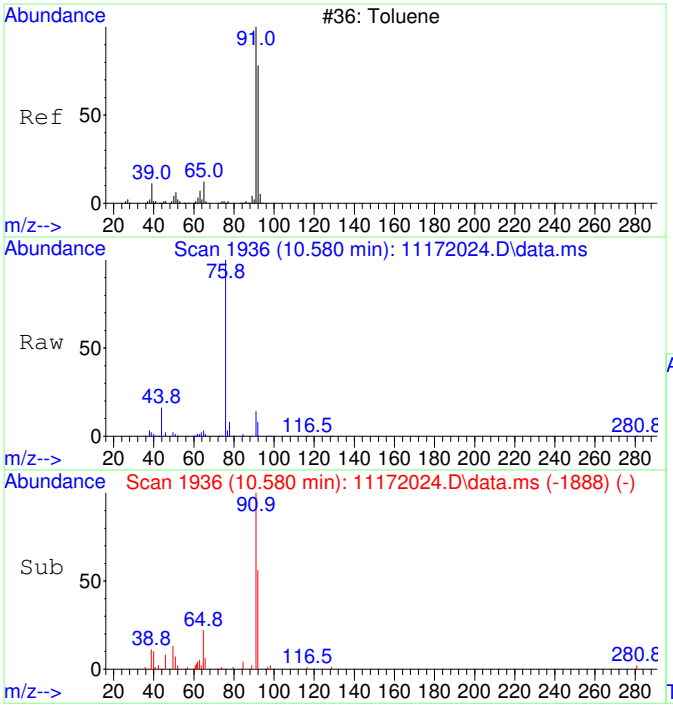


#36
Toluene-d8 SCAN
Concen: 4226.08 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 98 Resp: 253681

Ion	Ratio	Lower	Upper
98	100		
100	71.2	40.0	100.0

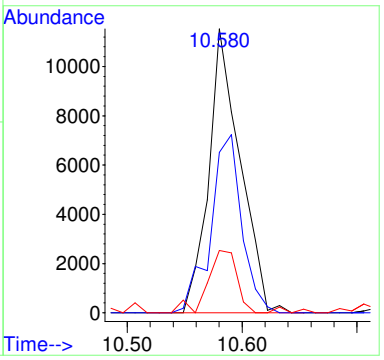


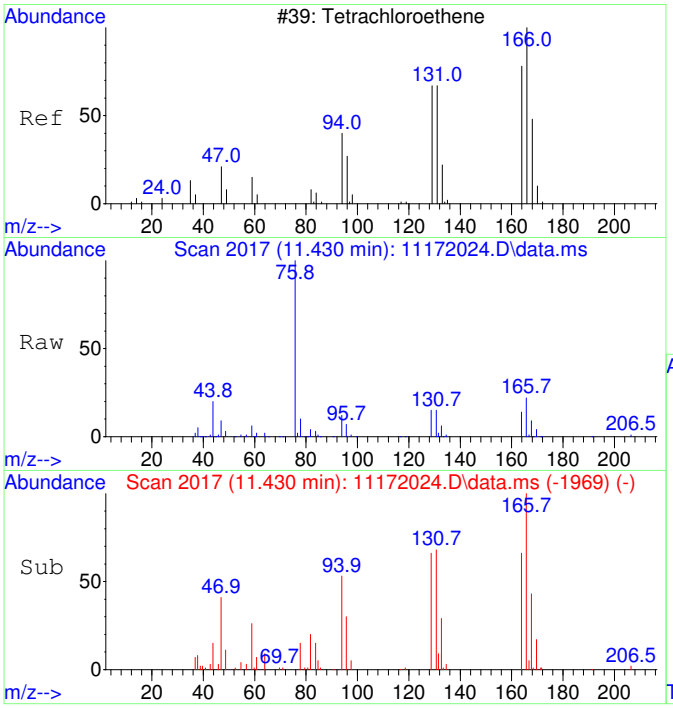


#37
Toluene SCAN
Concen: 285.92 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 21980

Ion	Ratio	Lower	Upper
91	100		
92	62.1	28.3	88.3
65	20.5	0.0	41.0

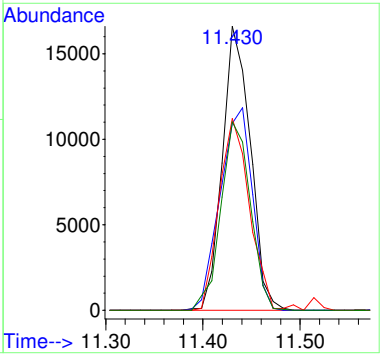


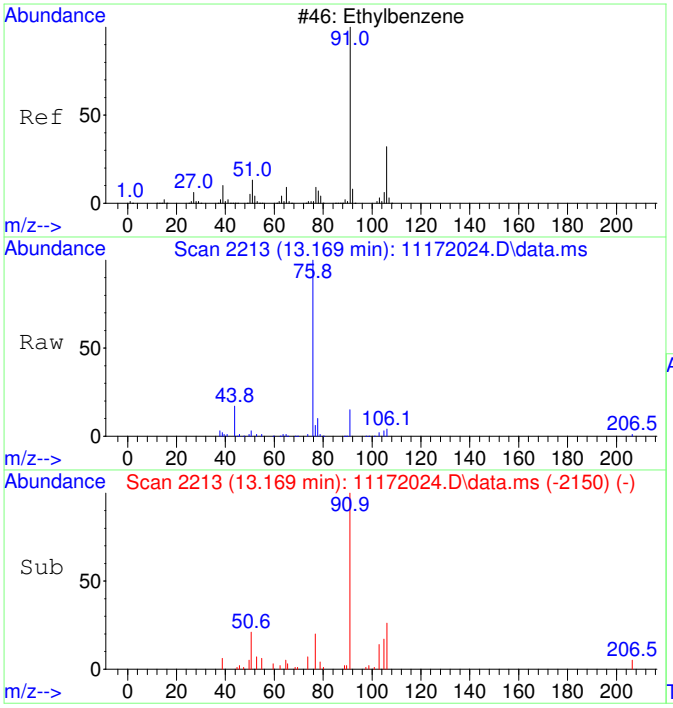


#39
Tetrachloroethene SCAN
Concen: 1794.11 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:166 Resp: 33135

Ion	Ratio	Lower	Upper
166	100		
164	81.9	50.9	110.9
131	72.4	38.7	98.7
129	70.0	41.8	101.8

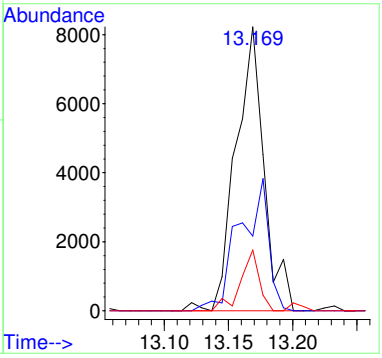


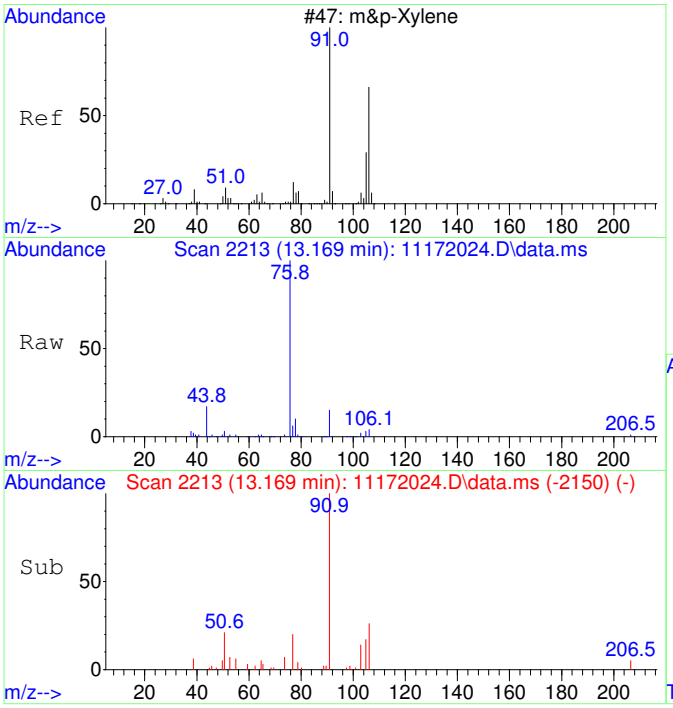


#42
Ethylbenzene SCAN
Concen: 89.73 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 12567

Ion	Ratio	Lower	Upper
91	100		
106	47.8	23.1	83.1
51	14.2	0.0	40.1

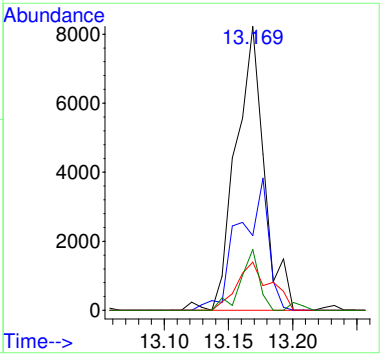


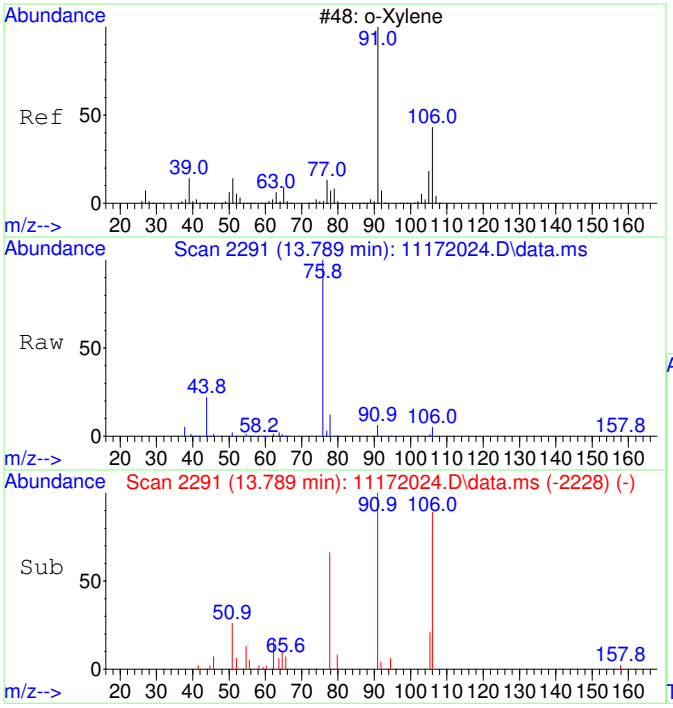


#43
m&p-Xylene SCAN
Concen: 89.73 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 12567

Ion	Ratio	Lower	Upper
91	100		
106	47.8	23.1	83.1
105	20.0	0.0	54.7
51	14.2	0.0	40.1

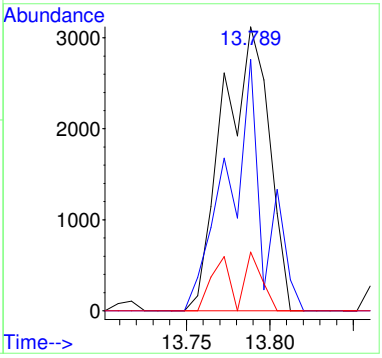


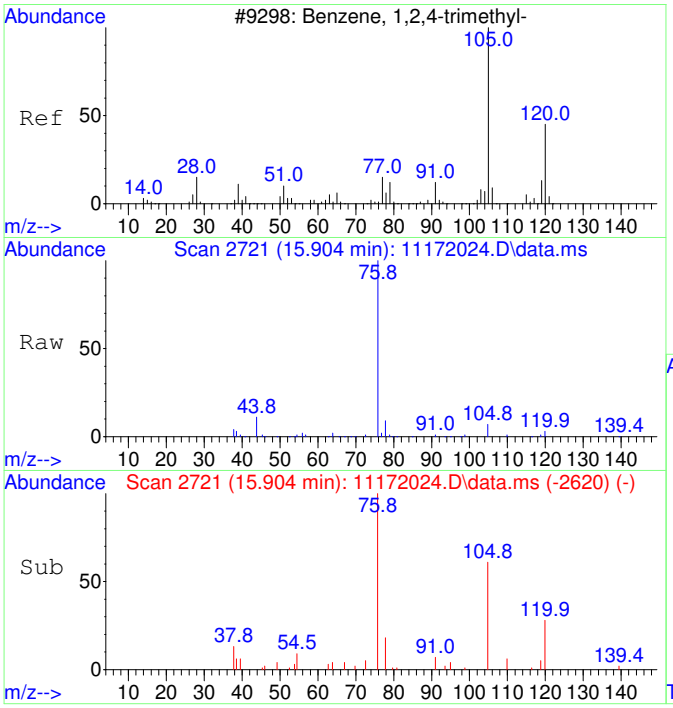


#44
o-Xylene SCAN
Concen: 79.97 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 5995

Ion	Ratio	Lower	Upper
91	100		
106	68.7	18.0	78.0
105	7.7	0.0	56.6

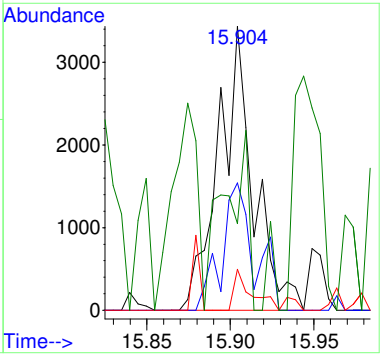




#47
1,2,4-Trimethylbenzene SCAN
Concen: 61.24 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:105 Resp: 4951

Ion	Ratio	Lower	Upper
105	100		
120	42.2	16.9	76.9
119	7.2	0.0	41.9
77	44.2	0.0	42.3#



Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172024.D
Acq On : 17 Nov 2020 16:58
InstName : AG5975C
Operator : TD
Sample : 2011017-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

M.I. Performed By:
TD at 9:40 am, Nov 23, 2020

M.I. Approved By:
ZR at 3:43 pm, Nov 23, 2020

Quant Time: Nov 18 06:16:43 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

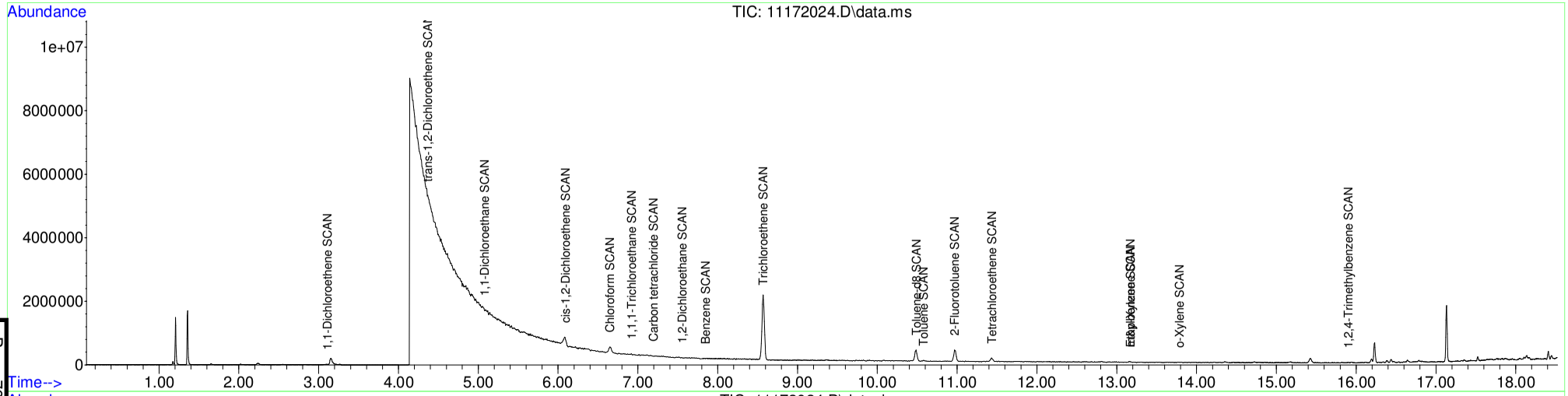
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	629655	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	538277	4366.94 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.34%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	15265m	607.12 ug/L	
3] trans-1,2-Dichloroethene	4.356	61	21347	734.85 ug/L	97
4] 1,1-Dichloroethane	5.072	63	18717	517.60 ug/L	96
5] cis-1,2-Dichloroethene	6.081	61	392656	10286.86 ug/L	99
6] Chloroform	6.651	83	350091	8960.81 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	14967	352.75 ug/L	100
8] Carbon tetrachloride	7.174	117	4007	100.34 ug/L	100
9] Benzene	7.503	78	18077	168.97 ug/L	63
10] 1,2-Dichloroethane	7.539	62	1471	38.52 ug/L #	1
11] Trichloroethene	8.569	130	1497597	46493.56 ug/L oc	94
13] Toluene	10.581	91	40787	259.55 ug/L	98
15] Tetrachloroethene	11.432	166	78891	1734.70 ug/L	100
18] Ethylbenzene	12.972	91	11081	57.93 ug/L	97
19] m&p-Xylene	13.162	91	22071	147.63 ug/L	94
20] o-Xylene	13.782	91	11616	72.73 ug/L	95
23] 1,2,4-Trimethylbenzene	15.901	105	9341	52.90 ug/L	90
25) 2-Fluorotoluene SCAN	10.968	109	301308	4908.92 ug/L	98
26) 1,1-Dichloroethene SCAN	3.107	61	1546	118.60 ug/L	84
27) trans-1,2-Dichloroethe...	4.361	61	13379	829.44 ug/L #	65
28) 1,1-Dichloroethane SCAN	5.078	63	10334	553.58 ug/L	85
29) cis-1,2-Dichloroethene...	6.086	61	215082	10753.79 ug/L #	86
30) Chloroform SCAN	6.650	83	177552	8184.60 ug/L	93
31) 1,1,1-Trichloroethane ...	6.918	97	8547	432.35 ug/L #	57
32) Carbon tetrachloride SCAN	7.197	117	1808	87.68 ug/L #	57
33) Benzene SCAN	7.849	78	1956	35.94 ug/L	93
34) 1,2-Dichloroethane SCAN	7.550	62	466	23.19 ug/L #	66
35) Trichloroethene SCAN	8.573	130	704072	47070.03 ug/L	86
36) Toluene-d8 SCAN	10.486	98	253681	4226.08 ug/L	99
37) Toluene SCAN	10.580	91	21980	285.92 ug/L	92
39) Tetrachloroethene SCAN	11.430	166	33135	1794.11 ug/L	97
42) Ethylbenzene SCAN	13.169	91	12567	89.73 ug/L	92
43) m&p-Xylene SCAN	13.169	91	12567	89.73 ug/L	92
44) o-Xylene SCAN	13.789	91	5995	79.97 ug/L	67
47) 1,2,4-Trimethylbenzene...	15.904	105	4951	61.24 ug/L #	79

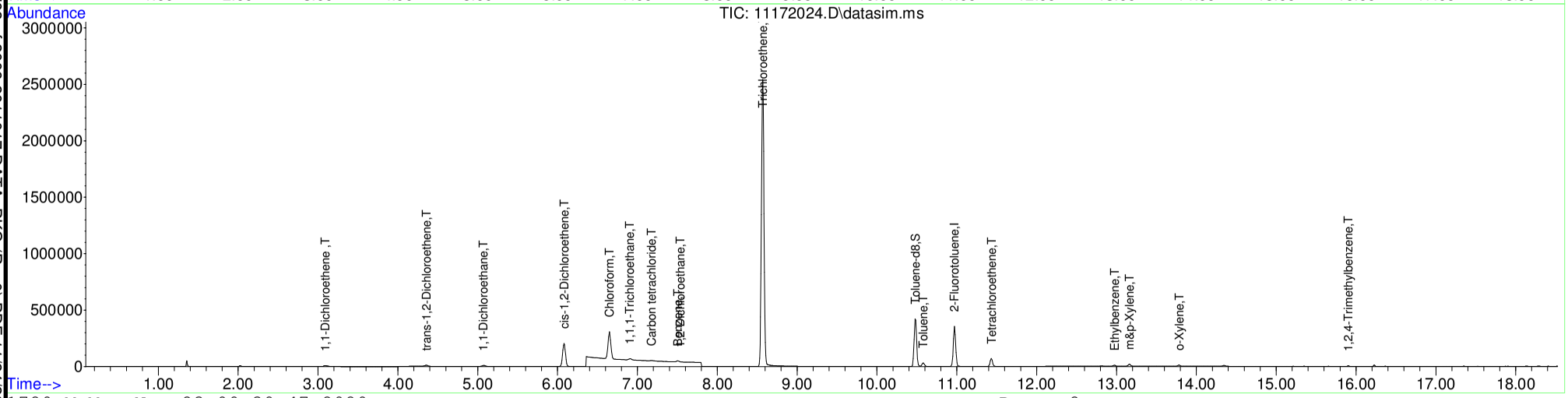
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172024.D
Acq On : 17 Nov 2020 16:58
InstName : AG5975C
Operator : TD
Sample : 2011017-13
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 18 06:16:43 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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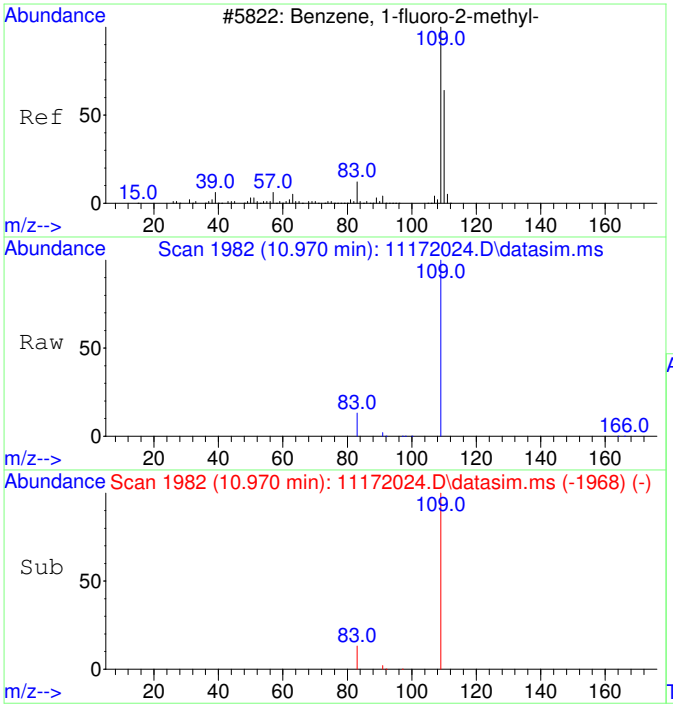
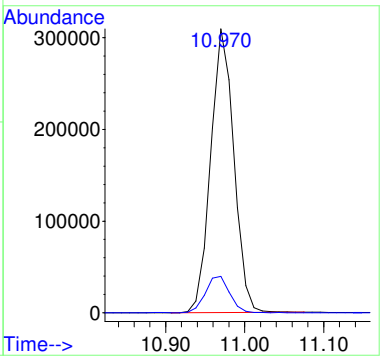
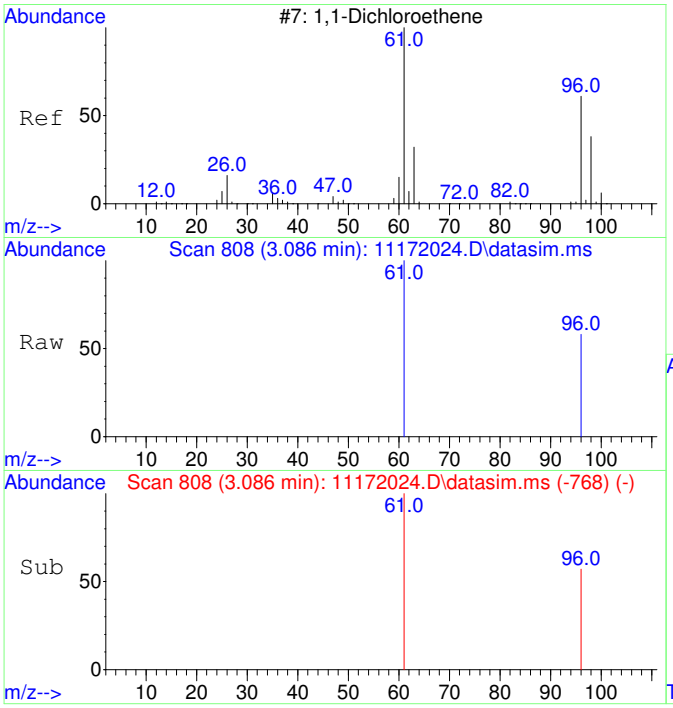


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:109 Resp: 629655

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

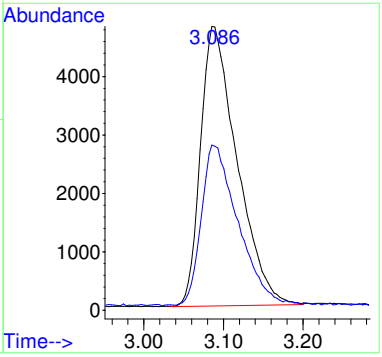


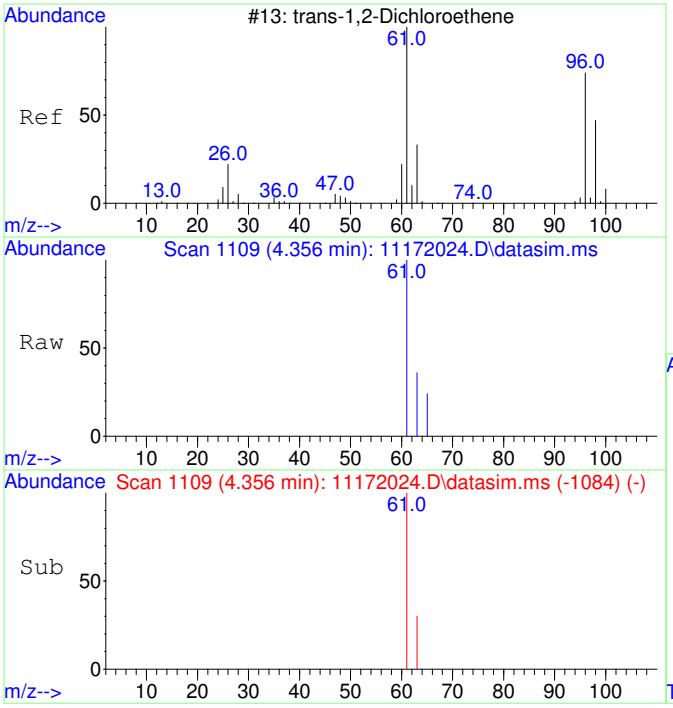


#2
1,1-Dichloroethene
Concen: 607.12 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 61 Resp: 15265

Ion	Ratio	Lower	Upper
61	100		
96	57.0	37.2	97.2

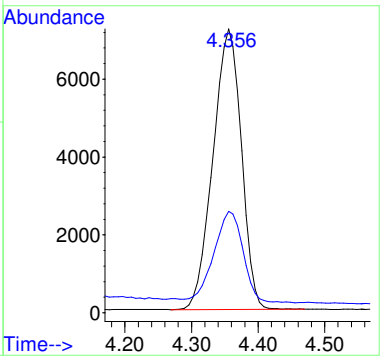


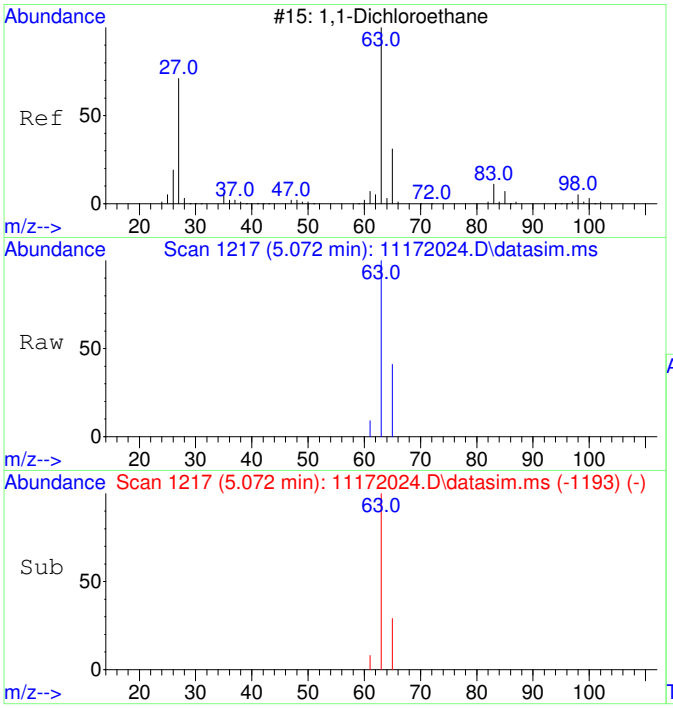


#3
trans-1,2-Dichloroethene
Concen: 734.85 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 61 Resp: 21347

Ion	Ratio	Lower	Upper
61	100		
63	33.9	2.4	62.4

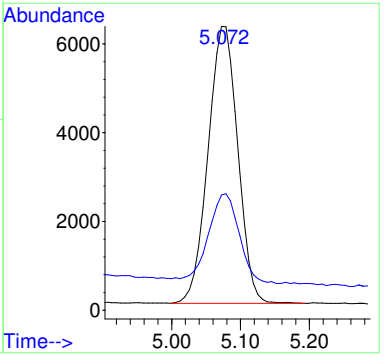


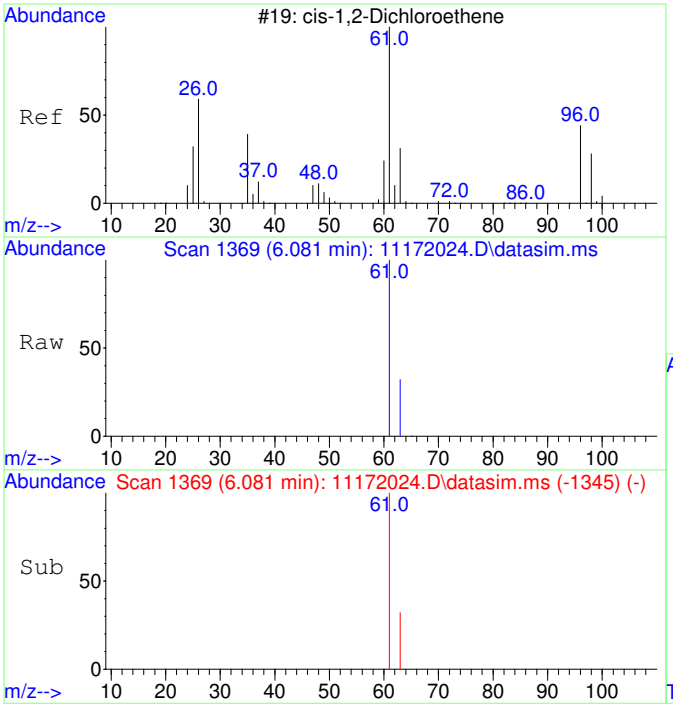


#4
1,1-Dichloroethane
Concen: 517.60 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.006 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 63 Resp: 18717

Ion	Ratio	Lower	Upper
63	100		
65	34.2	1.8	61.8

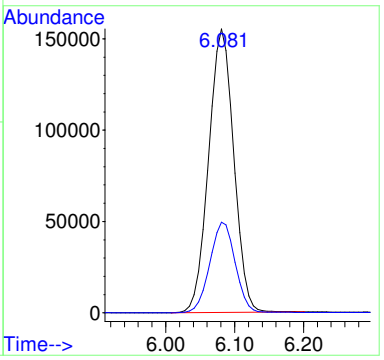


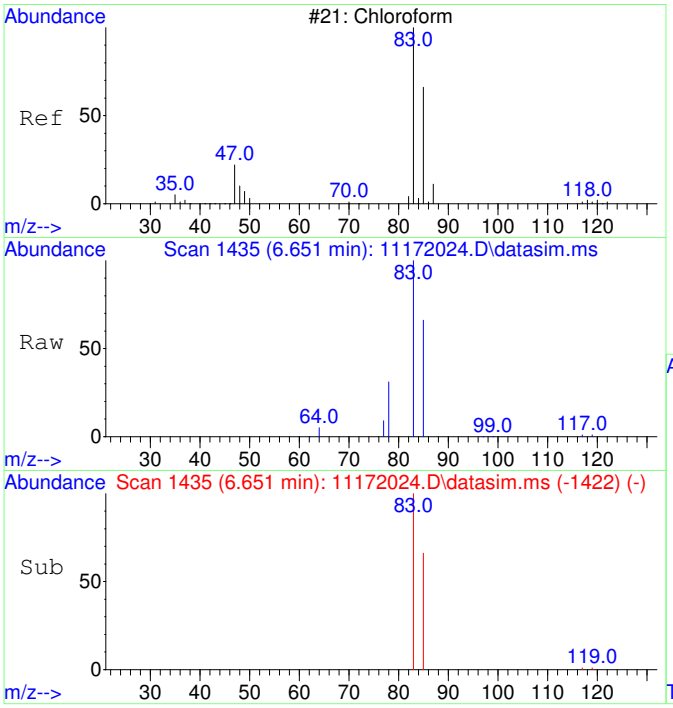


#5
cis-1,2-Dichloroethene
Concen: 10286.86 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.006 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 61 Resp: 392656

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.5	62.5

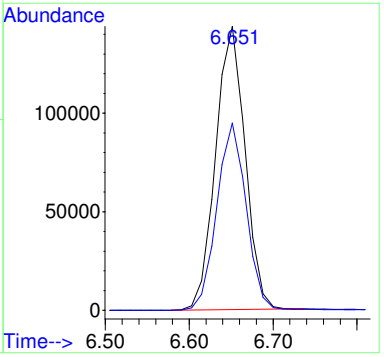


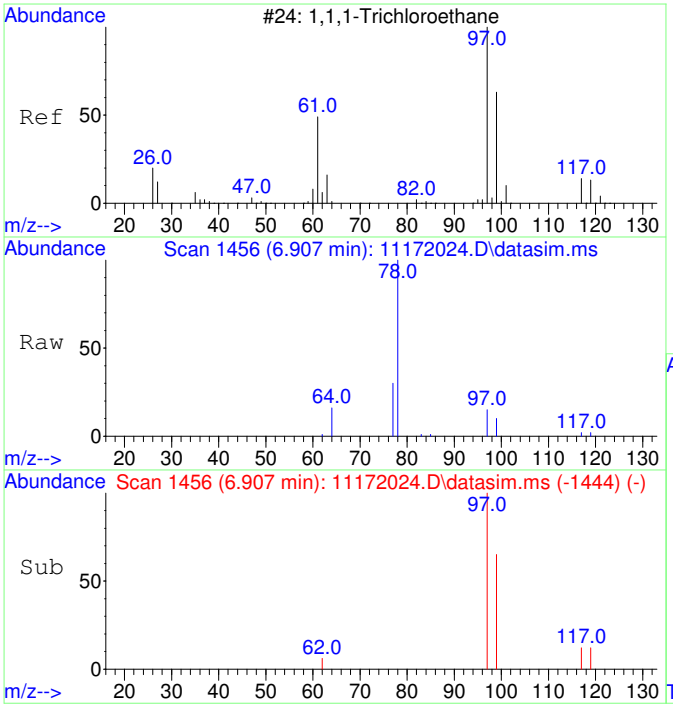


#6
Chloroform
Concen: 8960.81 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 83 Resp: 350091

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.1	95.1

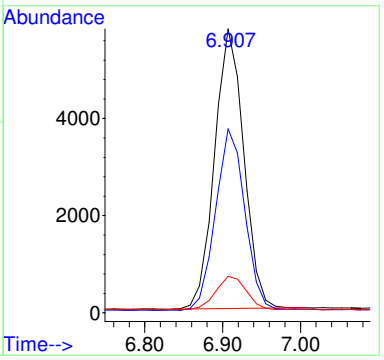


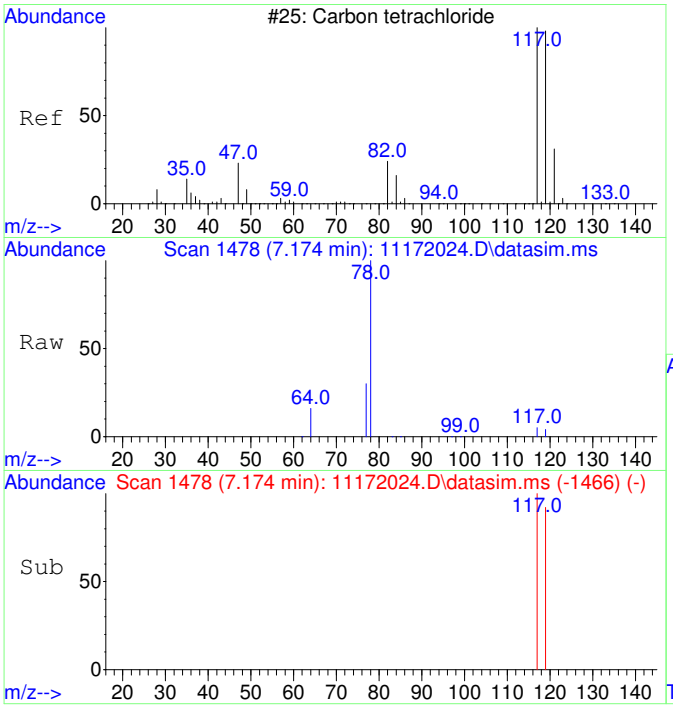


#7
1,1,1-Trichloroethane
Concen: 352.75 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 97 Resp: 14967

Ion	Ratio	Lower	Upper
97	100		
99	64.7	34.6	94.6
117	12.4	0.0	43.2

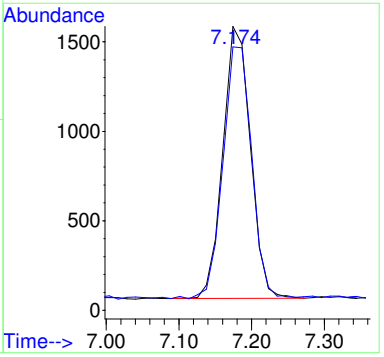


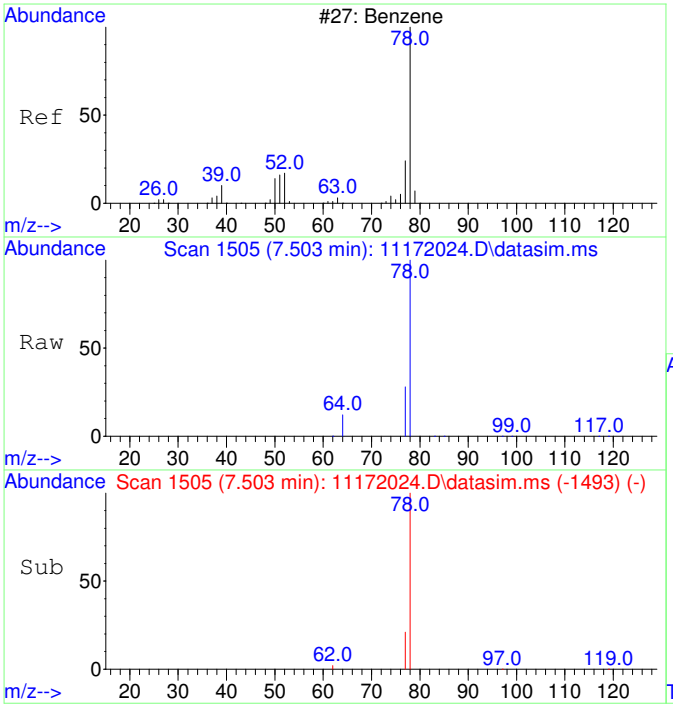


#8
Carbon tetrachloride
Concen: 100.34 ug/L
RT: 7.174 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:117 Resp: 4007

Ion	Ratio	Lower	Upper
117	100		
119	96.0	66.4	126.4

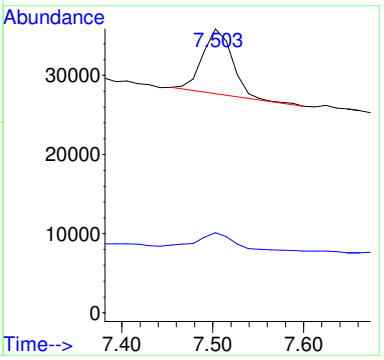


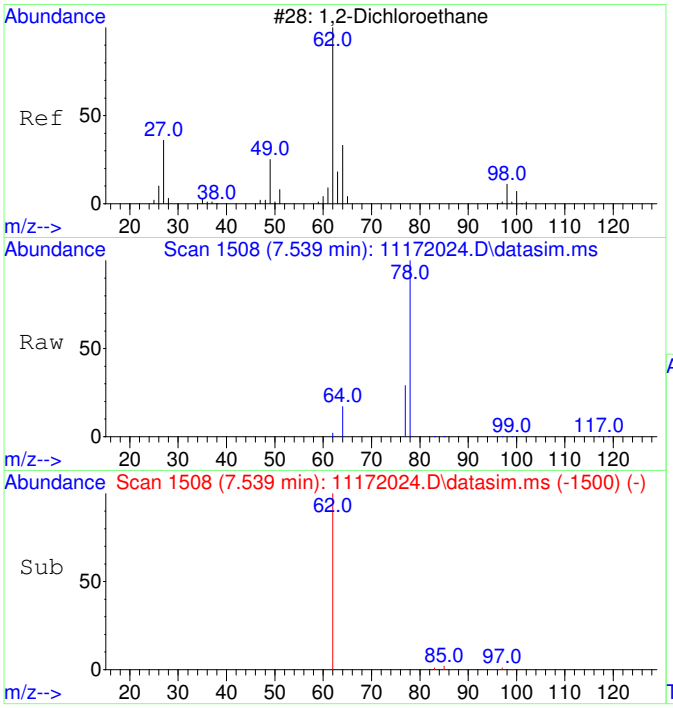


#9
Benzene
Concen: 168.97 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 78 Resp: 18077

Ion	Ratio	Lower	Upper
78	100		
77	41.4	0.0	53.2

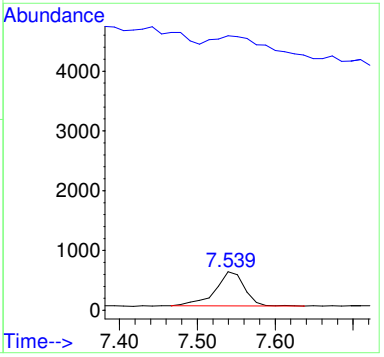


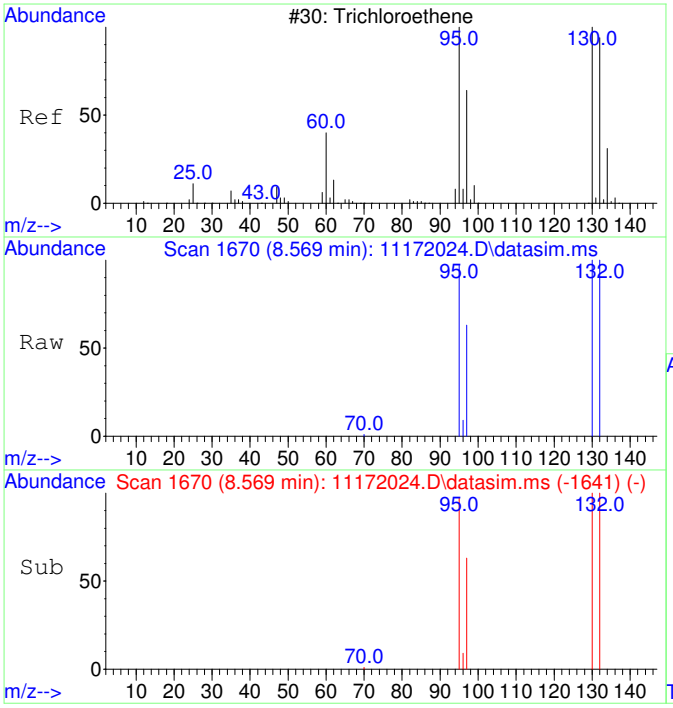


#10
1,2-Dichloroethane
Concen: 38.52 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 62 Resp: 1471

Ion	Ratio	Lower	Upper
62	100		
64	95.2	2.3	62.3#

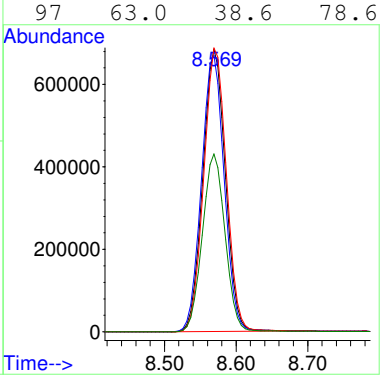


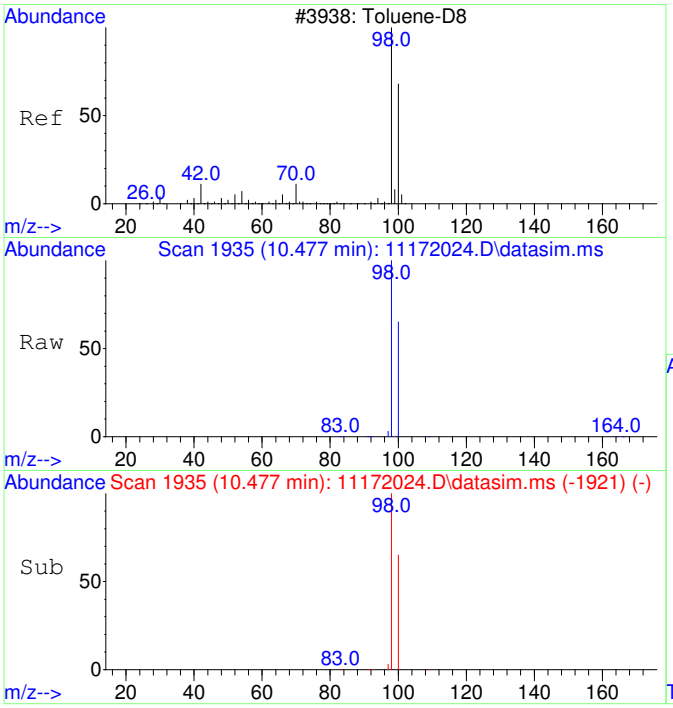


#11
Trichloroethene
Concen: 46493.56 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:130 Resp: 1497597

Ion	Ratio	Lower	Upper
130	100		
95	98.4	60.7	120.7
132	100.4	76.0	116.0
97	63.0	38.6	78.6

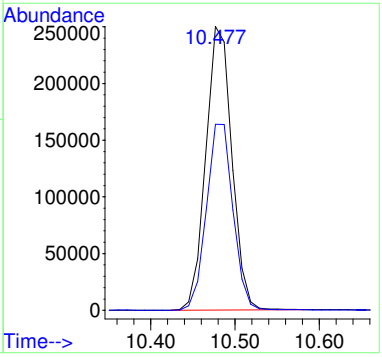


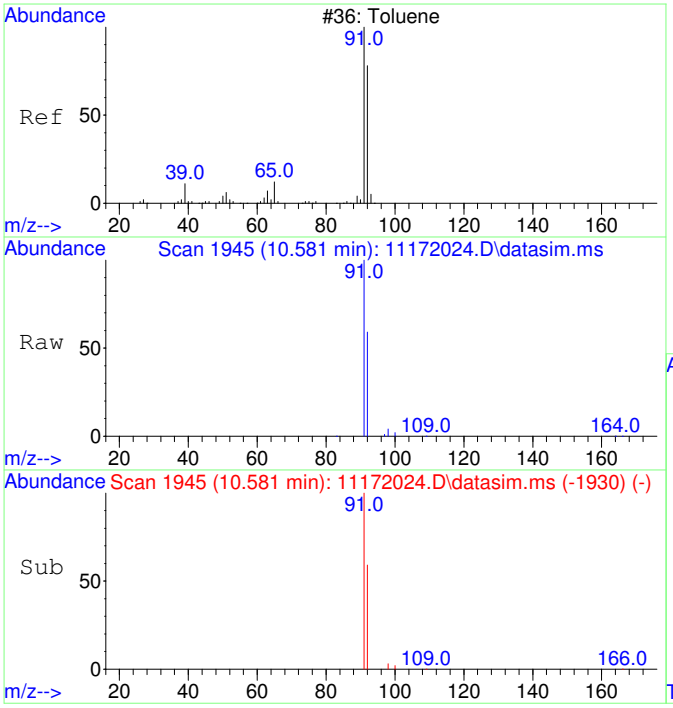


#12
Toluene-d8
Concen: 4366.94 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 98 Resp: 538277

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

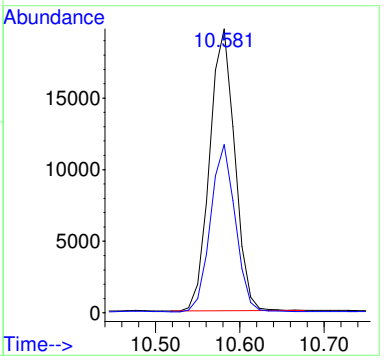


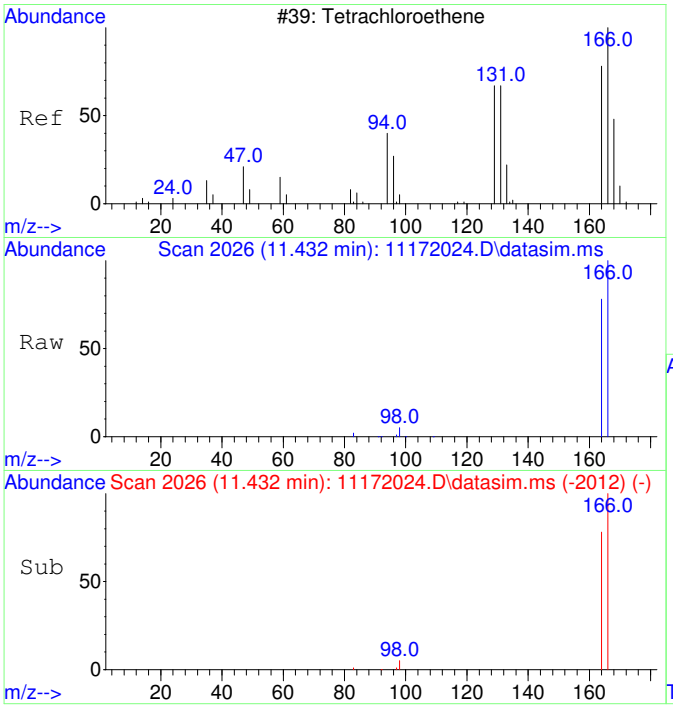


#13
Toluene
Concen: 259.55 ug/L
RT: 10.581 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 40787

Ion	Ratio	Lower	Upper
91	100		
92	58.4	29.9	89.9

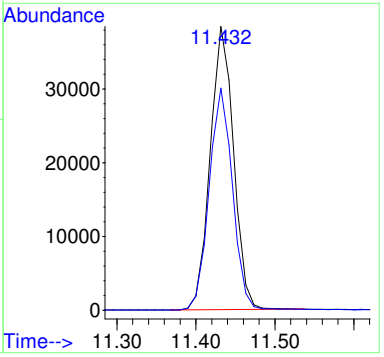


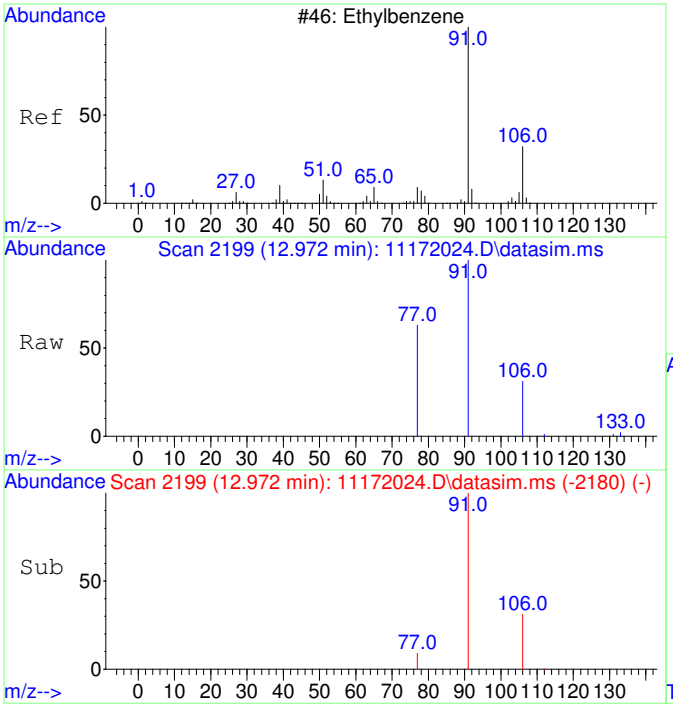


#15
Tetrachloroethene
Concen: 1734.70 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:166 Resp: 78891

Ion	Ratio	Lower	Upper
166	100		
164	77.7	47.8	107.8

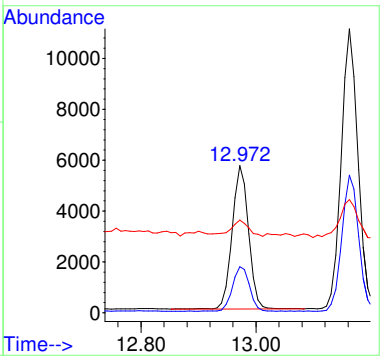


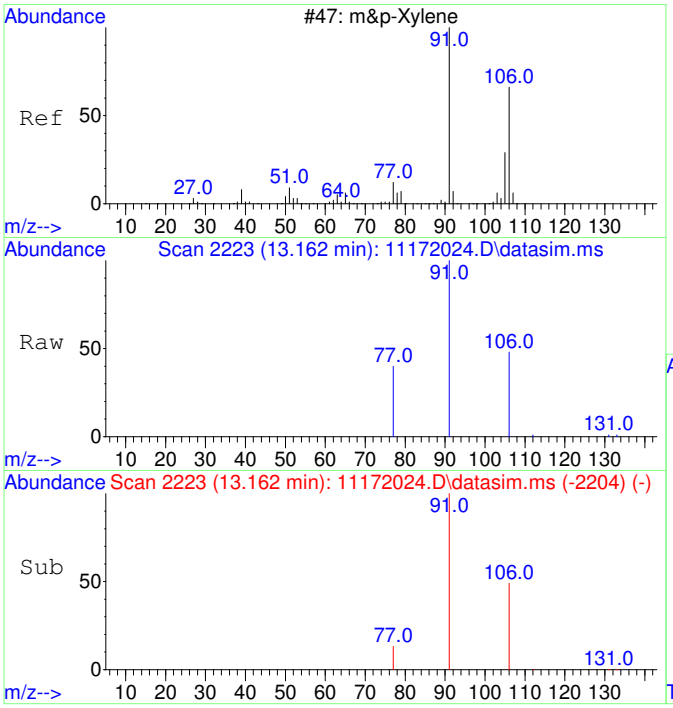


#18
Ethylbenzene
Concen: 57.93 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 11081

Ion	Ratio	Lower	Upper
91	100		
106	32.3	3.0	63.0
77	11.8	0.0	38.2

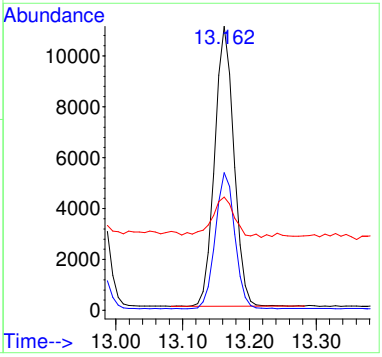


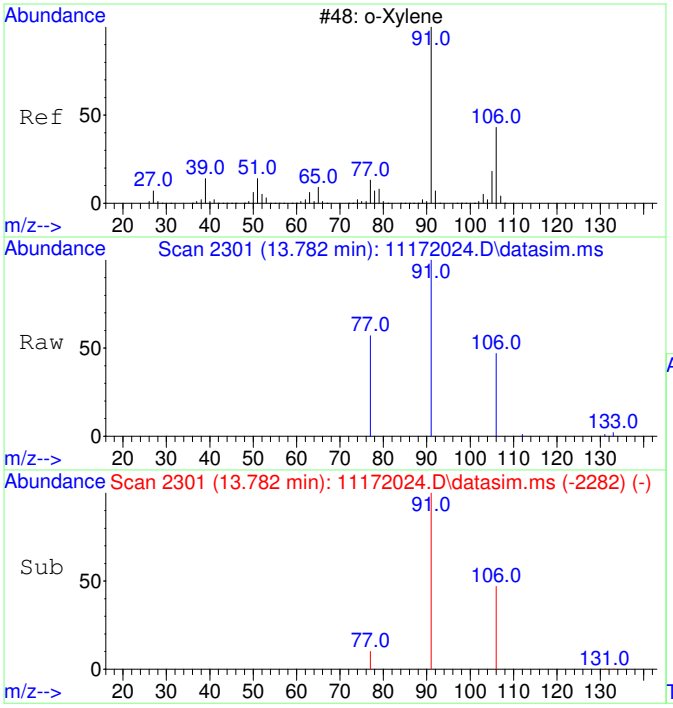


#19
m&p-Xylene
Concen: 147.63 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 22071

Ion	Ratio	Lower	Upper
91	100		
106	49.1	22.2	82.2
77	17.2	0.0	42.4

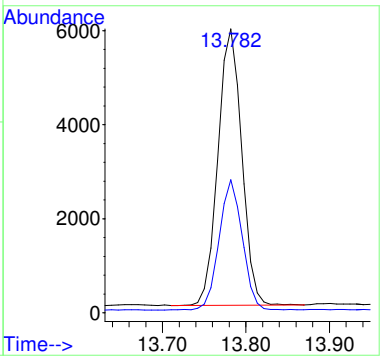


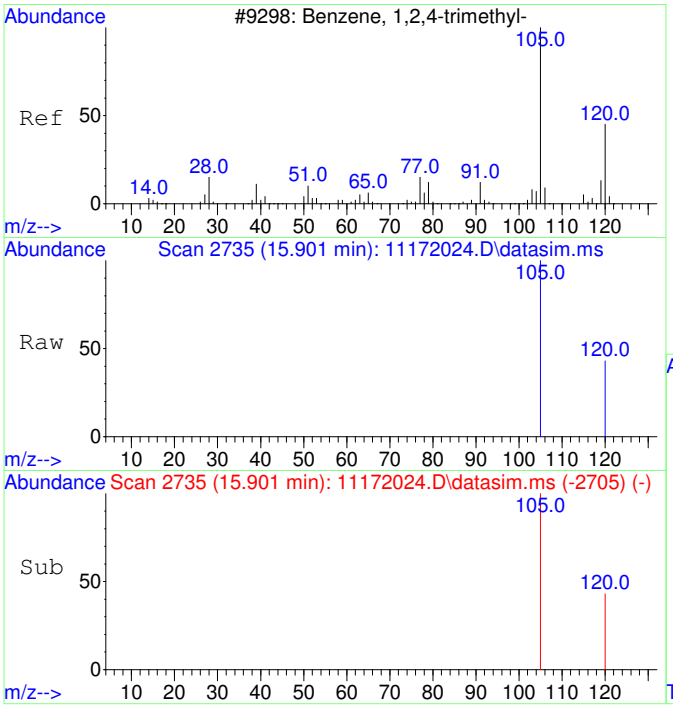


#20
o-Xylene
Concen: 72.73 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 11616

Ion	Ratio	Lower	Upper
91	100		
106	45.9	19.2	79.2

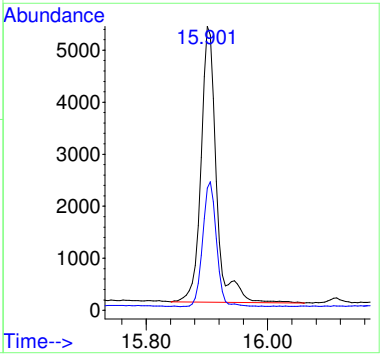


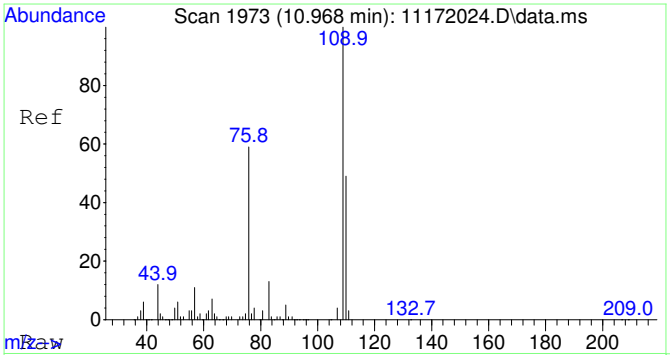


#23
1,2,4-Trimethylbenzene
Concen: 52.90 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:105 Resp: 9341

Ion	Ratio	Lower	Upper
105	100		
120	40.3	17.2	77.2

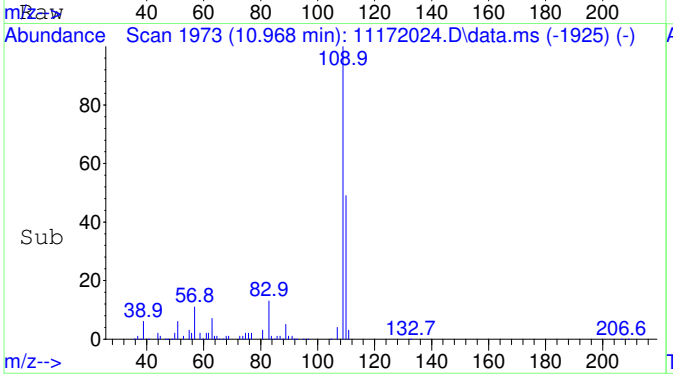


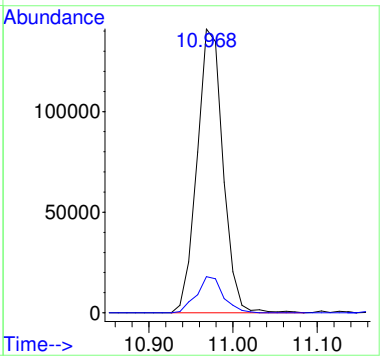


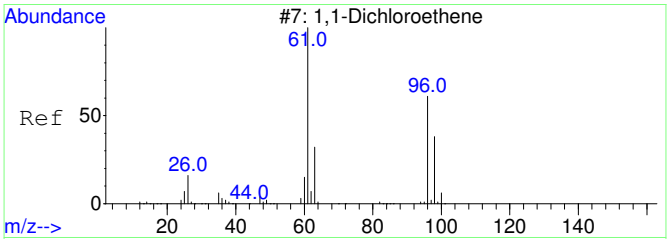
#25
2-Fluorotoluene SCAN
Concen: 4908.92 ug/L
RT: 10.968 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:109 Resp: 301308

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.8



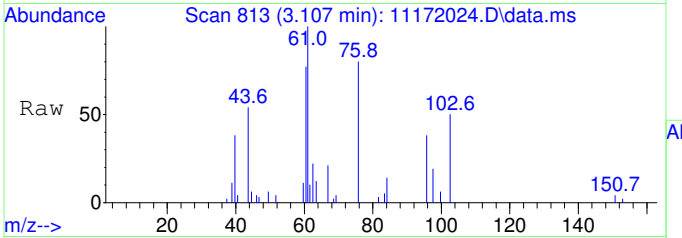


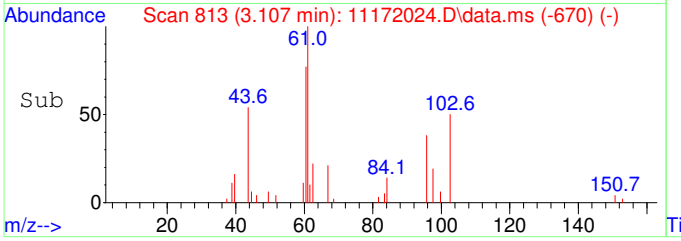


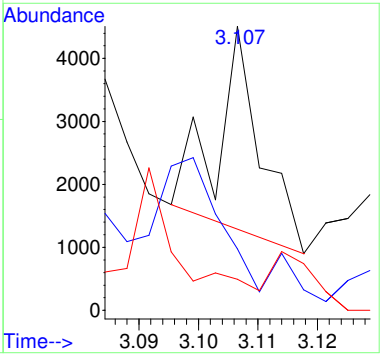
#26
1,1-Dichloroethene SCAN
Concen: 118.60 ug/L
RT: 3.107 min Scan# 813
Delta R.T. 0.029 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

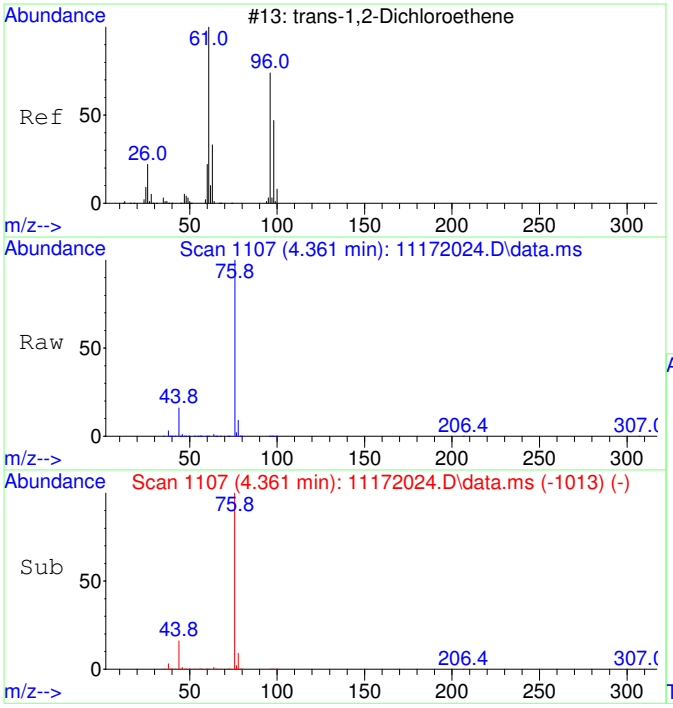
Tgt Ion: 61 Resp: 1546

Ion	Ratio	Lower	Upper
61	100		
96	65.6	33.1	93.1
98	19.4	11.2	71.2





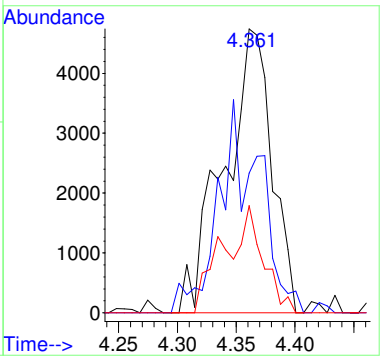


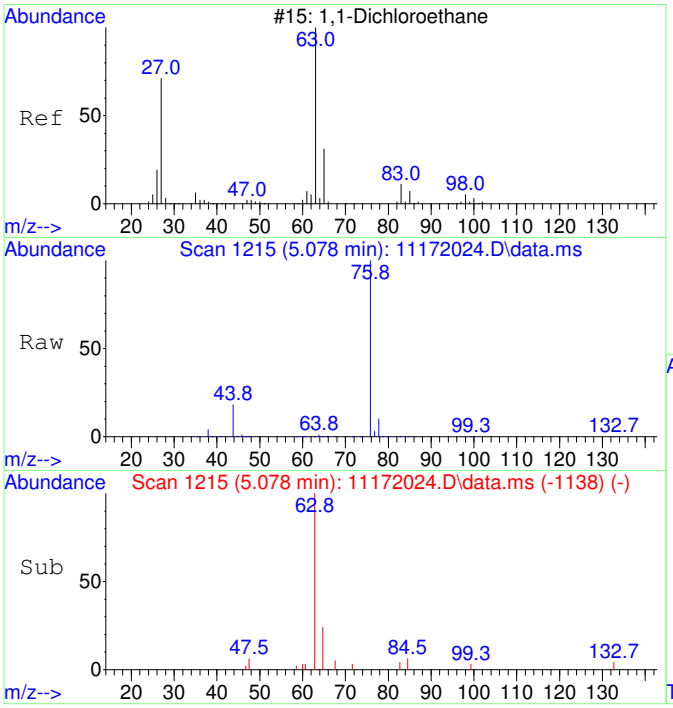


#27
trans-1,2-Dichloroethene SCAN
Concen: 829.44 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. 0.013 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 61 Resp: 13379

Ion	Ratio	Lower	Upper
61	100		
96	63.7	49.0	109.0
98	7.6	20.5	80.5#

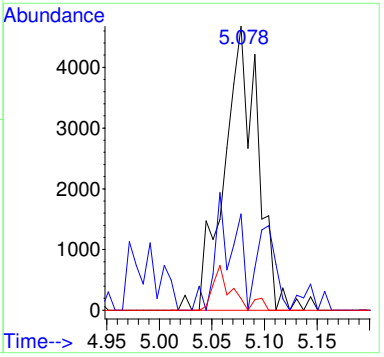


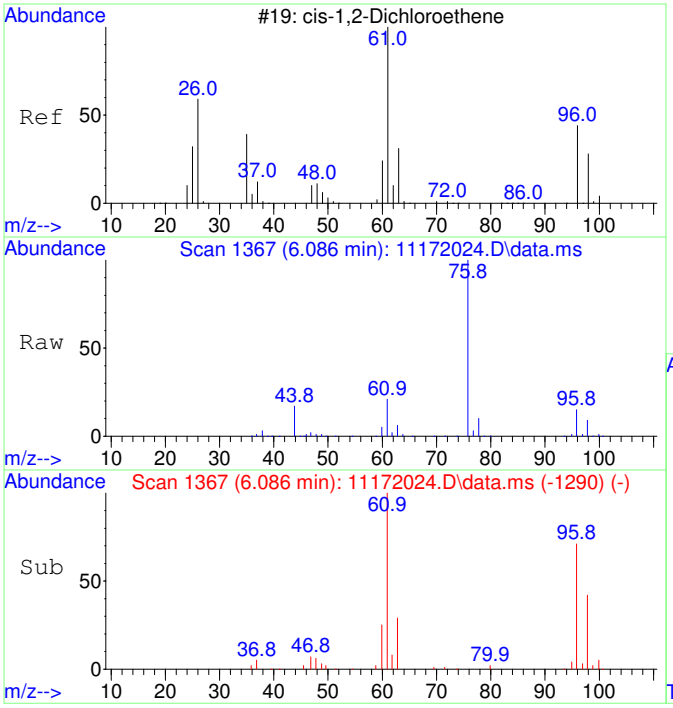


#28
1,1-Dichloroethane SCAN
Concen: 553.58 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 63 Resp: 10334

Ion	Ratio	Lower	Upper
63	100		
65	24.1	1.3	61.3
83	7.9	0.0	45.9

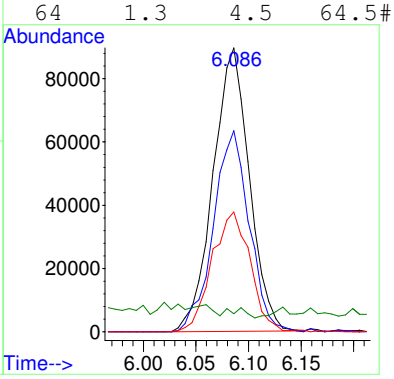


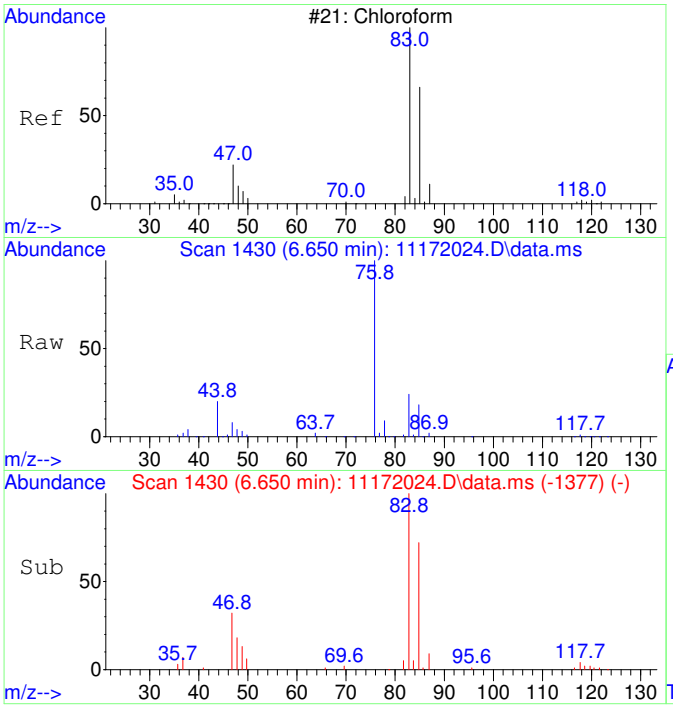


#29
cis-1,2-Dichloroethene SCAN
Concen: 10753.79 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 61 Resp: 215082

Ion	Ratio	Lower	Upper
61	100		
96	70.0	39.9	99.9
98	44.7	13.5	73.5
64	1.3	4.5	64.5#

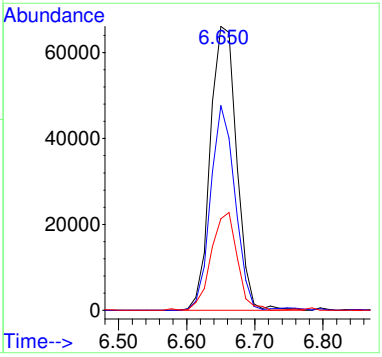


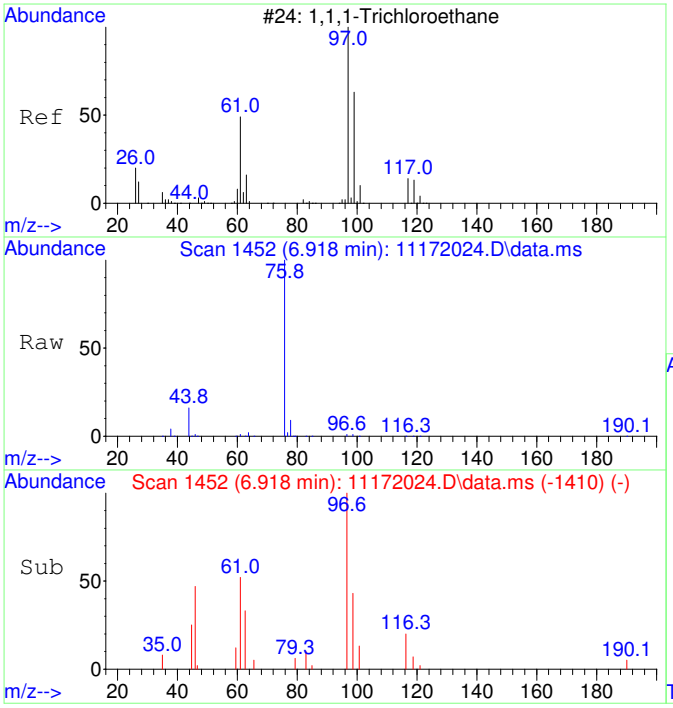


#30
Chloroform SCAN
Concen: 8184.60 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 83 Resp: 177552

Ion	Ratio	Lower	Upper
83	100		
85	66.0	34.6	94.6
47	34.1	0.0	53.4

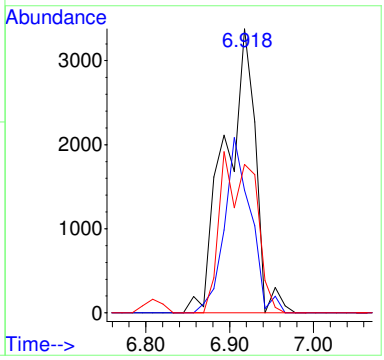


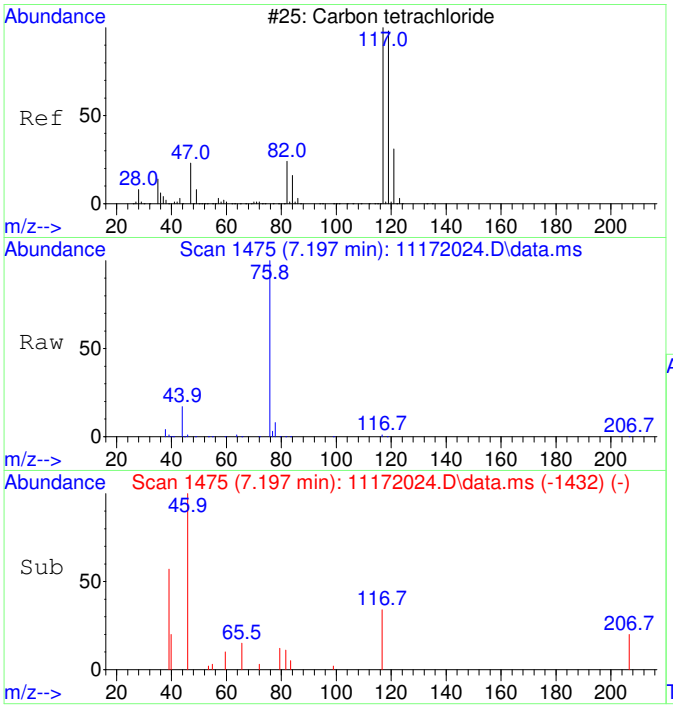


#31
1,1,1-Trichloroethane SCAN
Concen: 432.35 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 97 Resp: 8547

Ion	Ratio	Lower	Upper
97	100		
99	53.0	43.6	103.6
61	0.0	18.0	78.0#

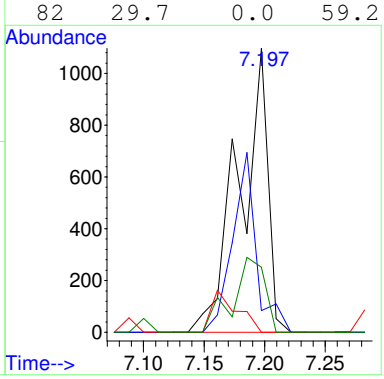


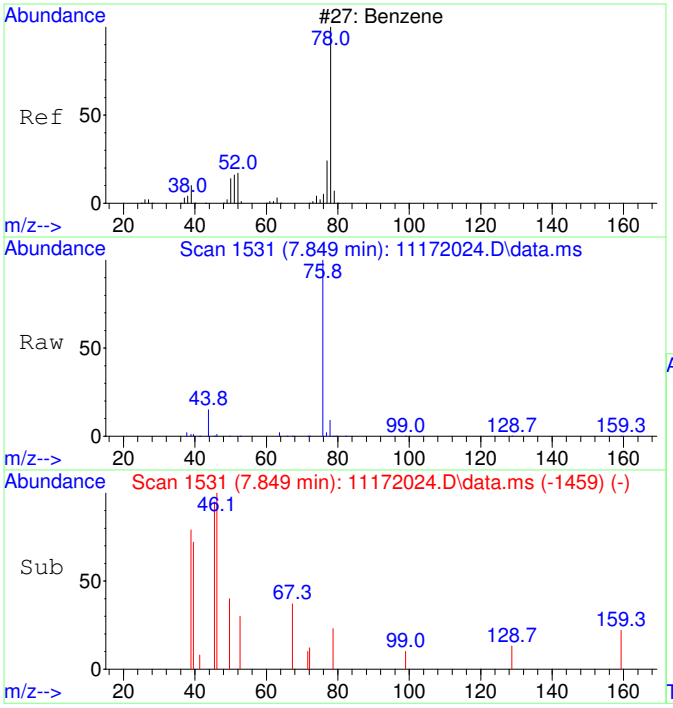


#32
Carbon tetrachloride SCAN
Concen: 87.68 ug/L
RT: 7.197 min Scan# 1475
Delta R.T. 0.024 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:117 Resp: 1808

Ion	Ratio	Lower	Upper
117	100		
119	52.5	75.5	135.5#
121	0.0	0.0	58.8
82	29.7	0.0	59.2

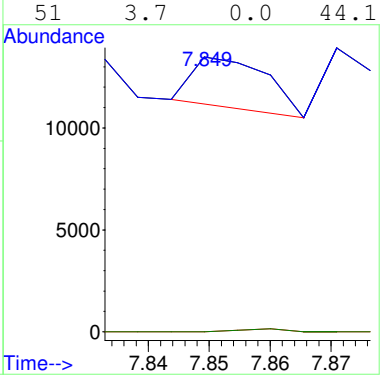


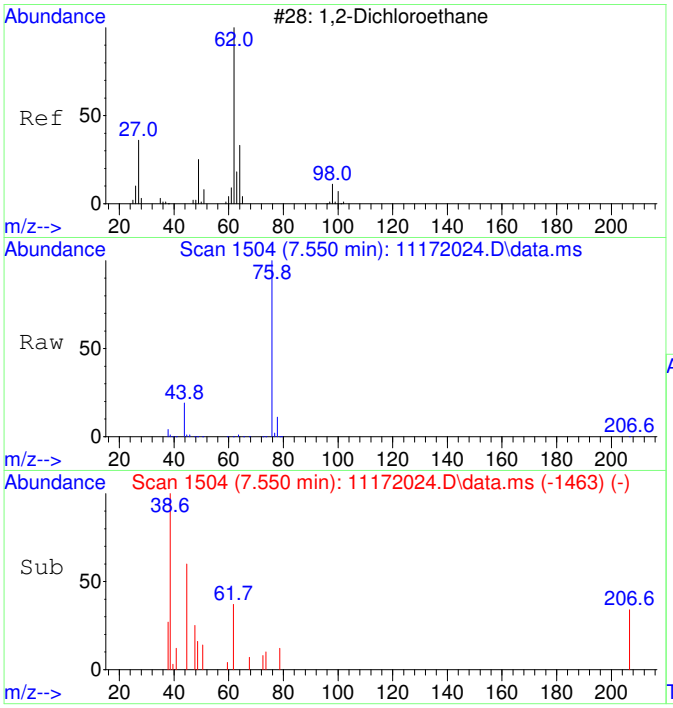


#33
Benzene SCAN
Concen: 35.94 ug/L
RT: 7.849 min Scan# 1531
Delta R.T. 0.347 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 78 Resp: 1956

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.7	0.0	47.9
51	3.7	0.0	44.1

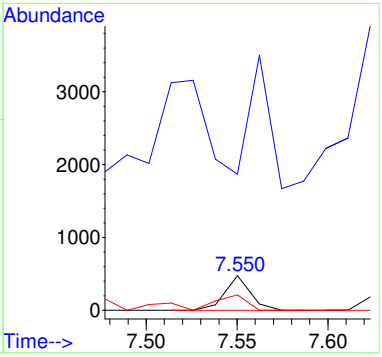


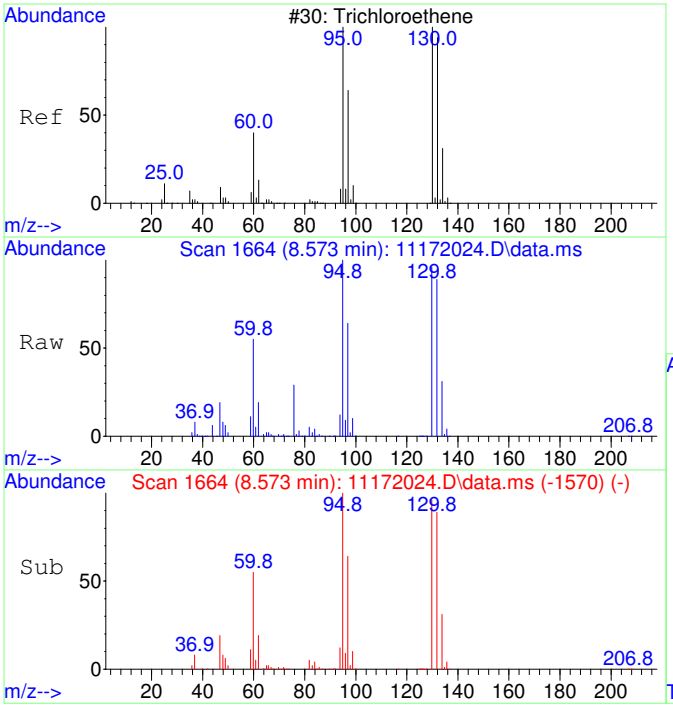


#34
1,2-Dichloroethane SCAN
Concen: 23.19 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 62 Resp: 466

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	38.2	3.9	63.9

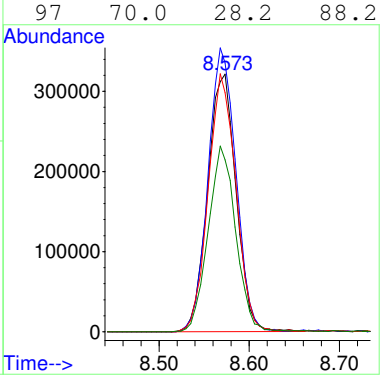


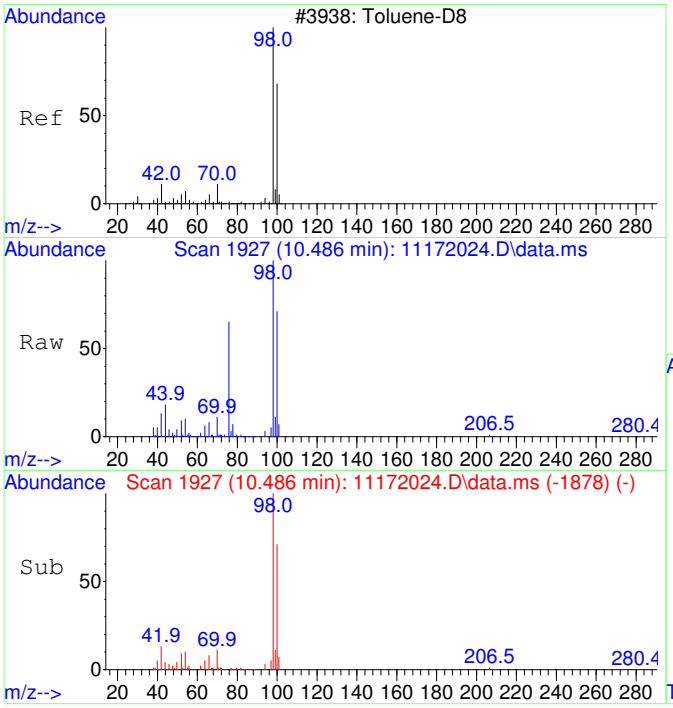


#35
Trichloroethene SCAN
Concen: 47070.03 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:130 Resp: 704072

Ion	Ratio	Lower	Upper
130	100		
95	107.4	60.5	120.5
132	97.2	59.6	119.6
97	70.0	28.2	88.2

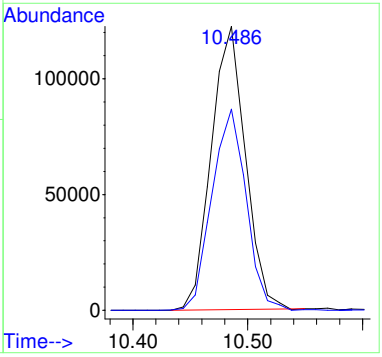


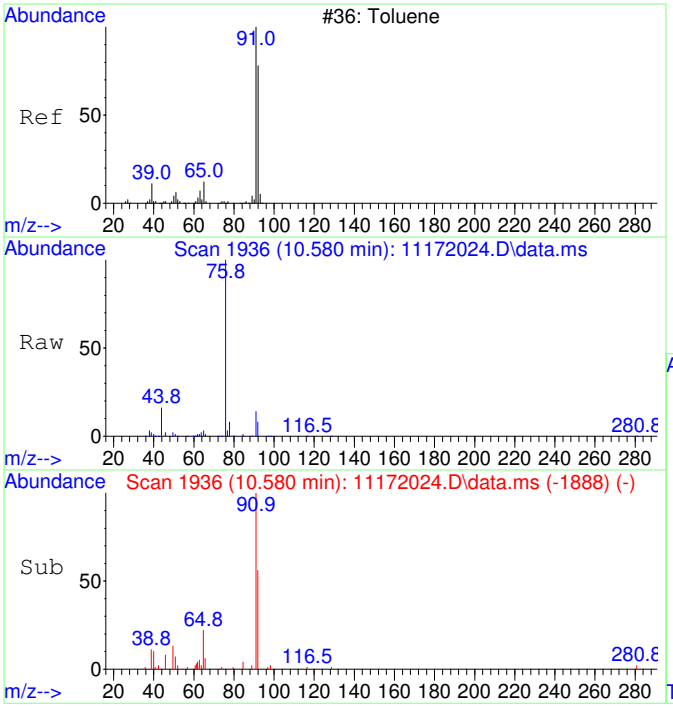


#36
Toluene-d8 SCAN
Concen: 4226.08 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 98 Resp: 253681

Ion	Ratio	Lower	Upper
98	100		
100	71.2	40.0	100.0

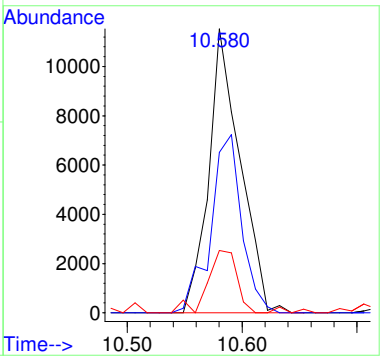


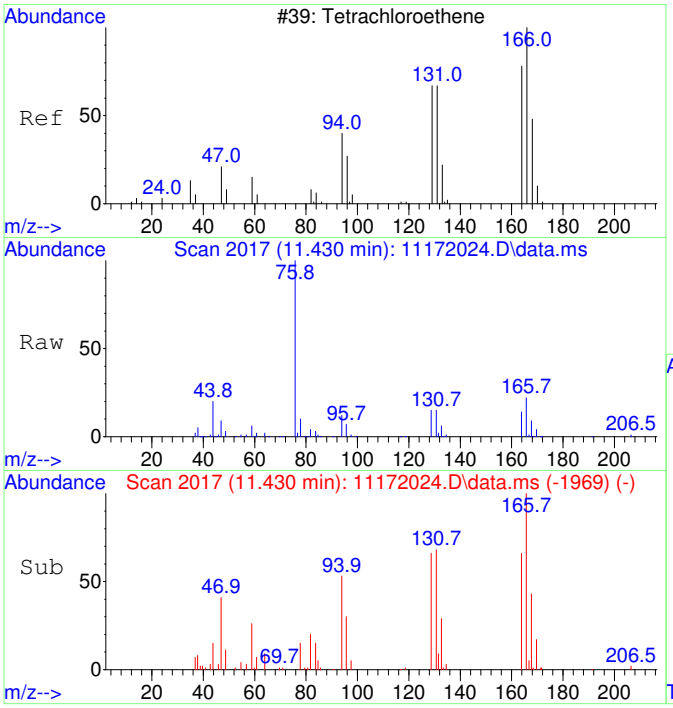


#37
Toluene SCAN
Concen: 285.92 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 21980

Ion	Ratio	Lower	Upper
91	100		
92	62.1	28.3	88.3
65	20.5	0.0	41.0

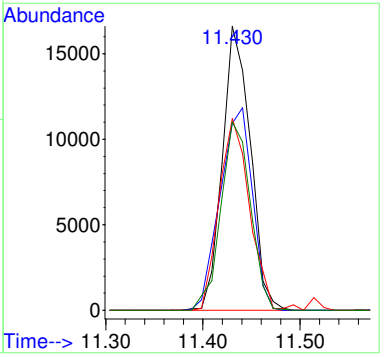


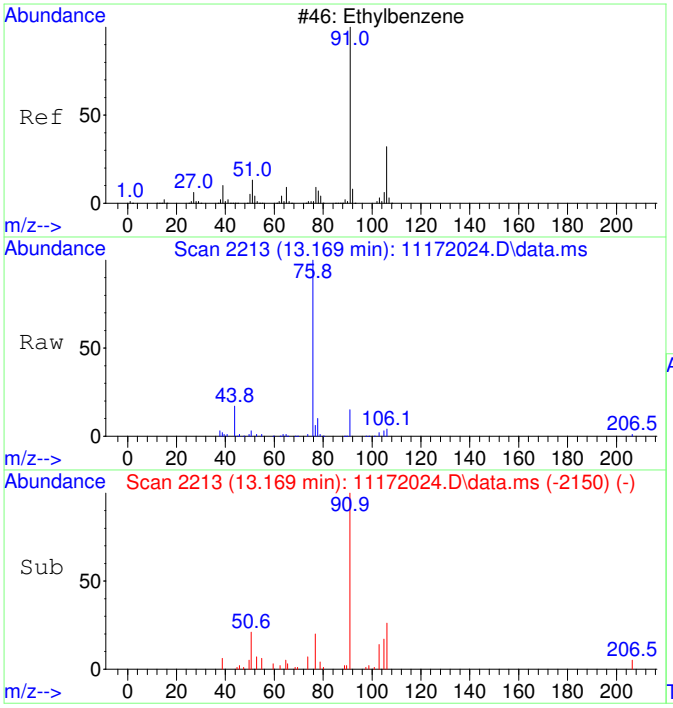


#39
Tetrachloroethene SCAN
Concen: 1794.11 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:166 Resp: 33135

Ion	Ratio	Lower	Upper
166	100		
164	81.9	50.9	110.9
131	72.4	38.7	98.7
129	70.0	41.8	101.8

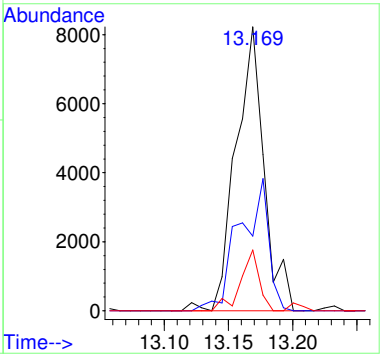


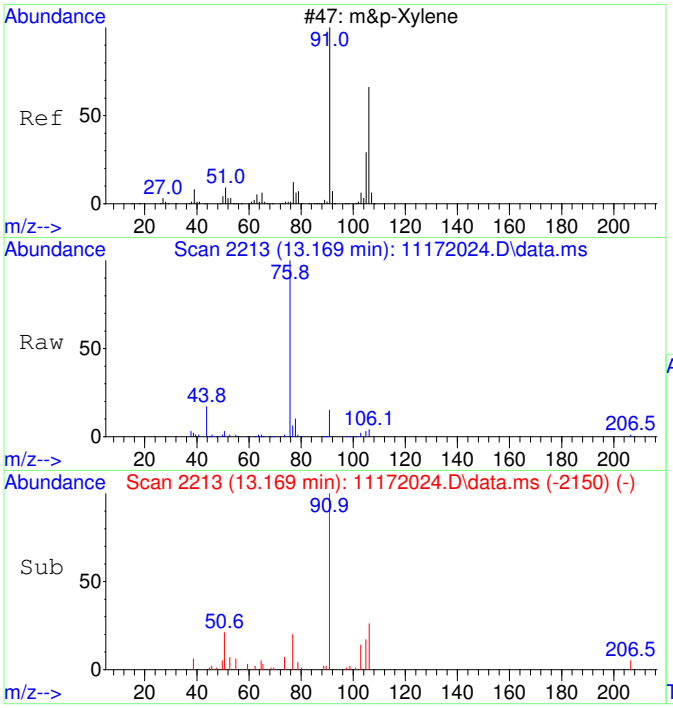


#42
Ethylbenzene SCAN
Concen: 89.73 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 12567

Ion	Ratio	Lower	Upper
91	100		
106	47.8	23.1	83.1
51	14.2	0.0	40.1

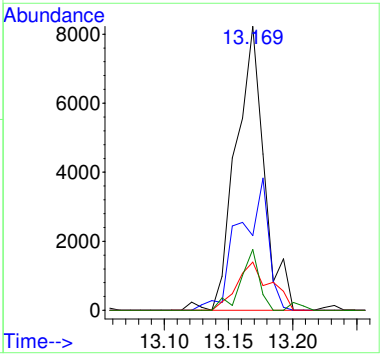


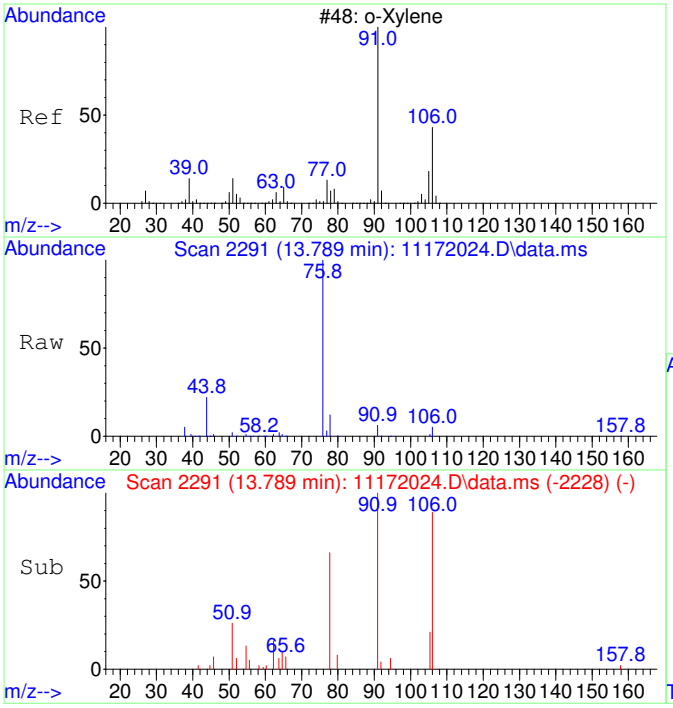


#43
m&p-Xylene SCAN
Concen: 89.73 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 12567

Ion	Ratio	Lower	Upper
91	100		
106	47.8	23.1	83.1
105	20.0	0.0	54.7
51	14.2	0.0	40.1

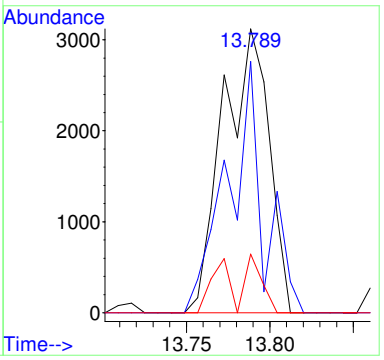


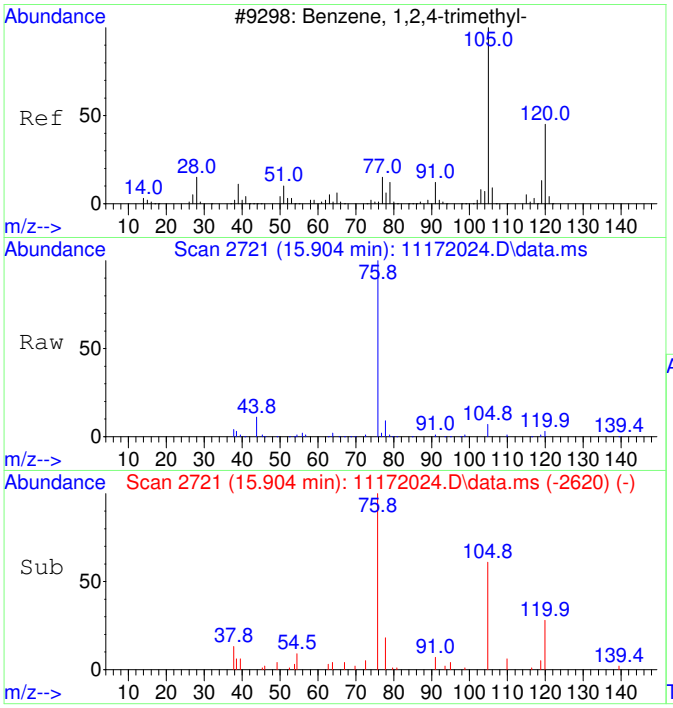


#44
o-Xylene SCAN
Concen: 79.97 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion: 91 Resp: 5995

Ion	Ratio	Lower	Upper
91	100		
106	68.7	18.0	78.0
105	7.7	0.0	56.6

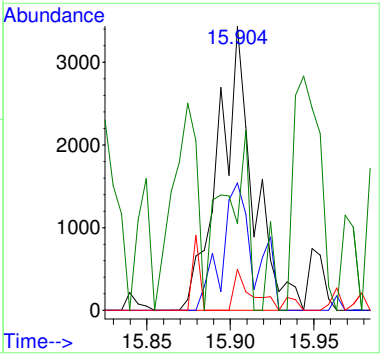




#47
1,2,4-Trimethylbenzene SCAN
Concen: 61.24 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172024.D
Acq: 17 Nov 2020 16:58

Tgt Ion:105 Resp: 4951

Ion	Ratio	Lower	Upper
105	100		
120	42.2	16.9	76.9
119	7.2	0.0	41.9
77	44.2	0.0	42.3#



2011017-14

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172025.D
Acq On : 17 Nov 2020 17:22
InstName : AG5975C
Operator : TD
Sample : 2011017-14
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 18 06:16:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

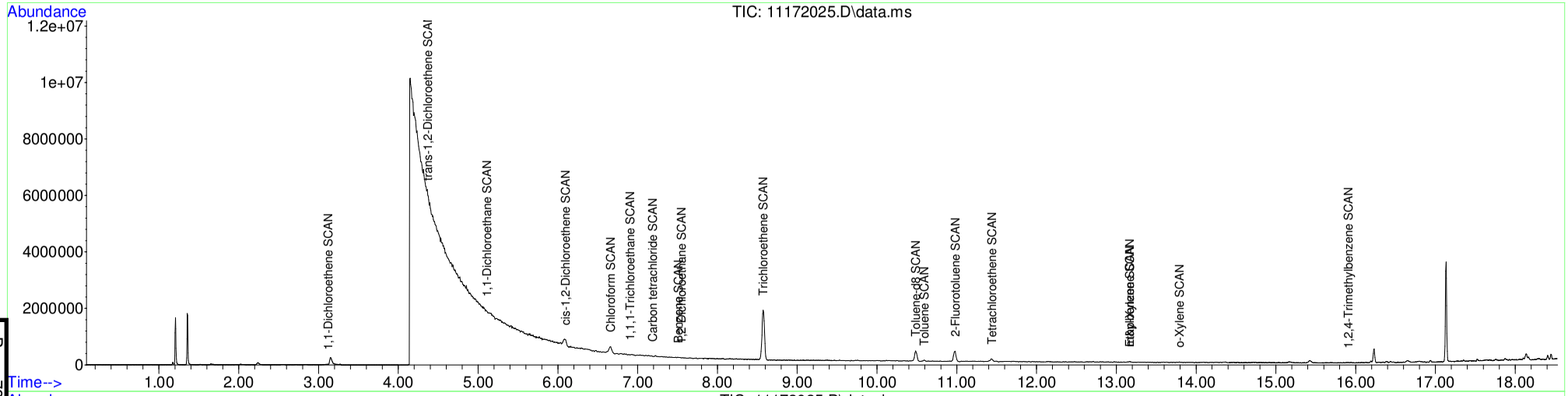
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	634662	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	538819	4336.85 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.74%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	18744	739.61 ug/L	88
3] trans-1,2-Dichloroethene	4.362	61	22330	762.62 ug/L	98
4] 1,1-Dichloroethane	5.079	63	21208	581.86 ug/L	96
5] cis-1,2-Dichloroethene	6.088	61	400862	10418.99 ug/L	99
6] Chloroform	6.652	83	395419	10041.17 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	14320	334.84 ug/L	99
8] Carbon tetrachloride	7.187	117	3940	97.88 ug/L	98
9] Benzene	7.515	78	23158	214.76 ug/L	82
10] 1,2-Dichloroethane	7.552	62	1336	34.71 ug/L #	1
11] Trichloroethene	8.575	130	1351879	41638.57 ug/L OC	94
13] Toluene	10.582	91	51705	326.43 ug/L	97
14] 1,1,2-Trichloroethane	11.169	97	763	22.11 ug/L #	18
15] Tetrachloroethene	11.432	166	65485	1428.56 ug/L	100
18] Ethylbenzene	12.972	91	13234	68.64 ug/L	96
19] m&p-Xylene	13.162	91	30292	201.03 ug/L	96
20] o-Xylene	13.782	91	13040	81.00 ug/L	96
22] 1,3,5-Trimethylbenzene	15.345	105	3570	20.83 ug/L	95
23] 1,2,4-Trimethylbenzene	15.901	105	10269	57.70 ug/L	91
25) 2-Fluorotoluene SCAN	10.979	109	305470	4937.46 ug/L	100
26) 1,1-Dichloroethene SCAN	3.114	61	1389	105.72 ug/L	77
27) trans-1,2-Dichloroethe...	4.368	61	15487	952.55 ug/L	74
28) 1,1-Dichloroethane SCAN	5.111	63	3366	178.89 ug/L	98
29) cis-1,2-Dichloroethene...	6.093	61	219853	10905.61 ug/L #	86
30) Chloroform SCAN	6.662	83	209422	9577.55 ug/L	93
31) 1,1,1-Trichloroethane ...	6.906	97	7415	372.13 ug/L #	56
32) Carbon tetrachloride SCAN	7.185	117	920	44.26 ug/L #	24
33) Benzene SCAN	7.514	78	20068	365.78 ug/L	99
34) 1,2-Dichloroethane SCAN	7.550	62	471	23.25 ug/L #	1
35) Trichloroethene SCAN	8.573	130	616810	40910.89 ug/L	83
36) Toluene-d8 SCAN	10.486	98	276165	4564.34 ug/L	94
37) Toluene SCAN	10.591	91	27140	350.26 ug/L	96
39) Tetrachloroethene SCAN	11.441	166	27386	1471.13 ug/L	96
42) Ethylbenzene SCAN	13.169	91	15395	109.06 ug/L	87
43) m&p-Xylene SCAN	13.169	91	15395	109.06 ug/L	89
44) o-Xylene SCAN	13.789	91	8780	116.20 ug/L	70
47) 1,2,4-Trimethylbenzene...	15.909	105	6039	74.11 ug/L #	79

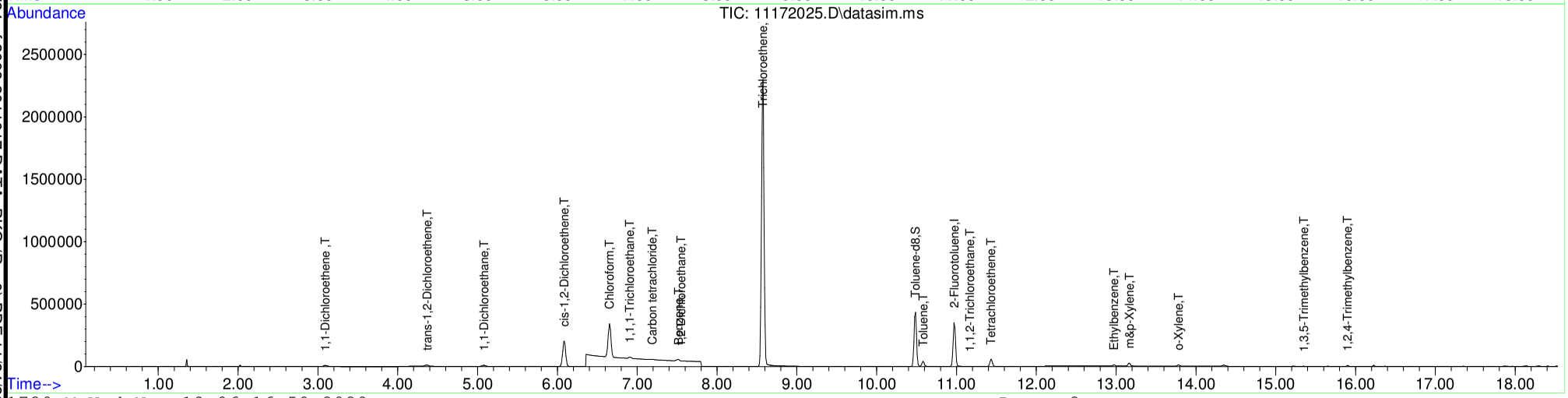
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172025.D
Acq On : 17 Nov 2020 17:22
InstName : AG5975C
Operator : TD
Sample : 2011017-14
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 18 06:16:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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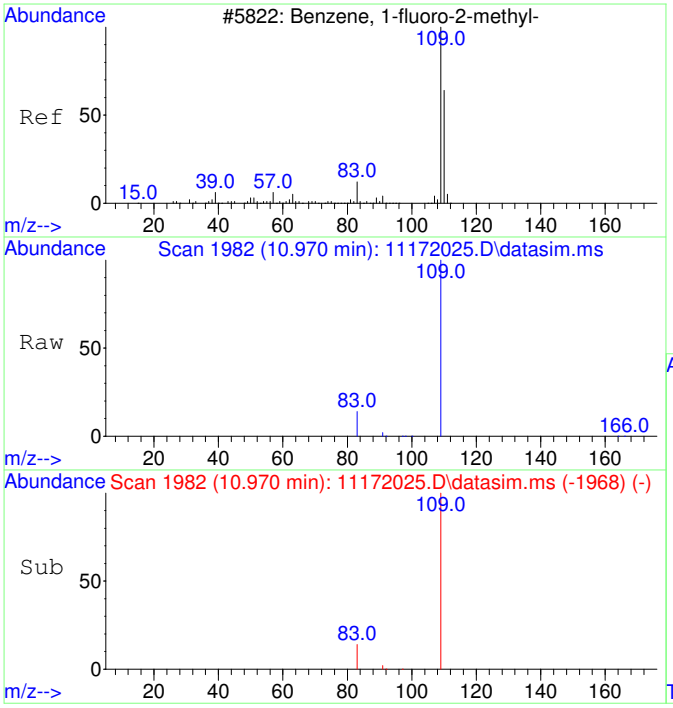
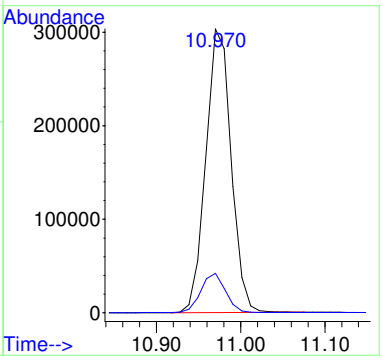
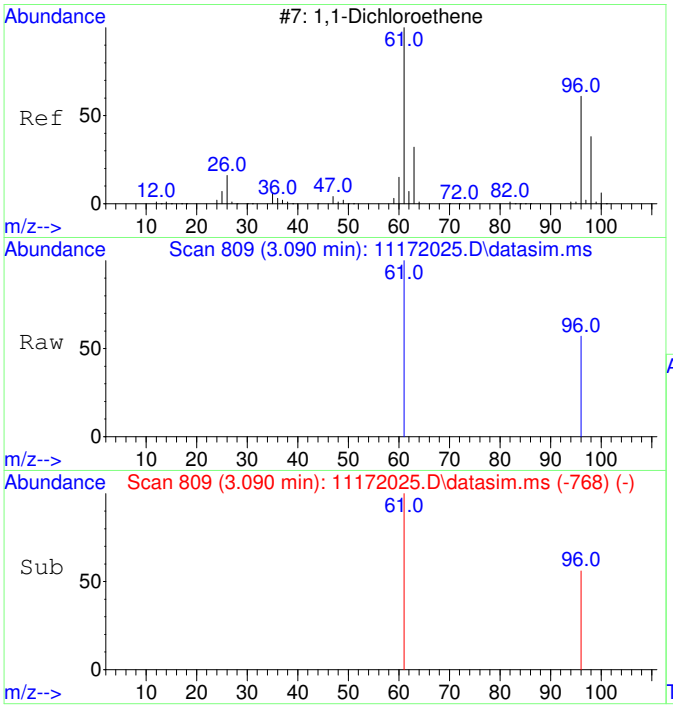


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:109 Resp: 634662

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

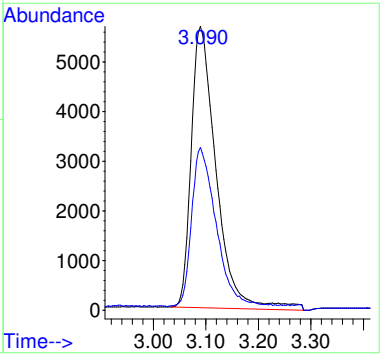




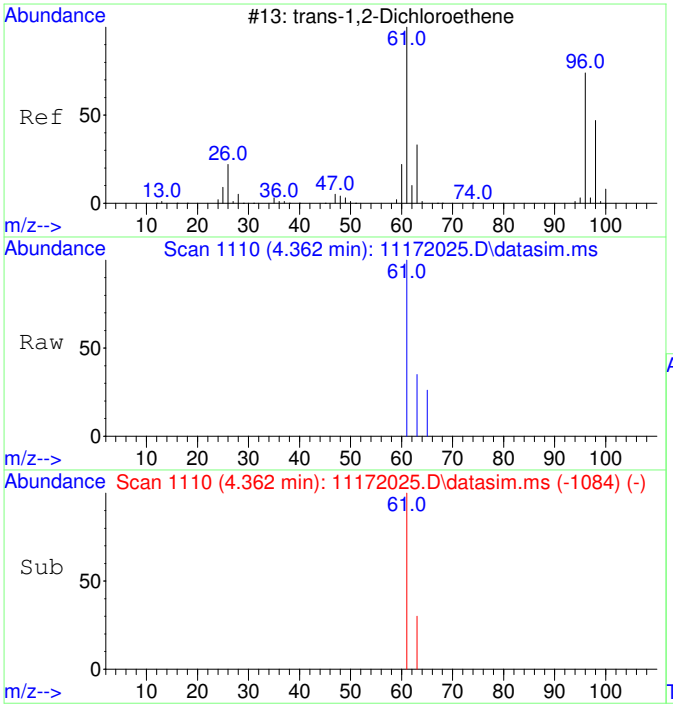
#2
1,1-Dichloroethene
Concen: 739.61 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 61 Resp: 18744

Ion	Ratio	Lower	Upper
61	100		
96	57.3	37.2	97.2



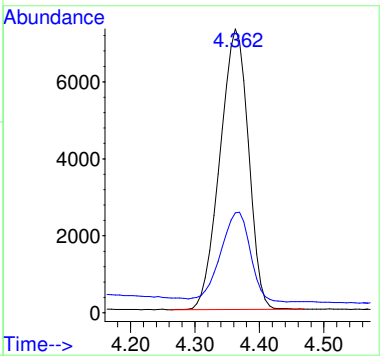
Before MI:
IMPROPER
BASELINE

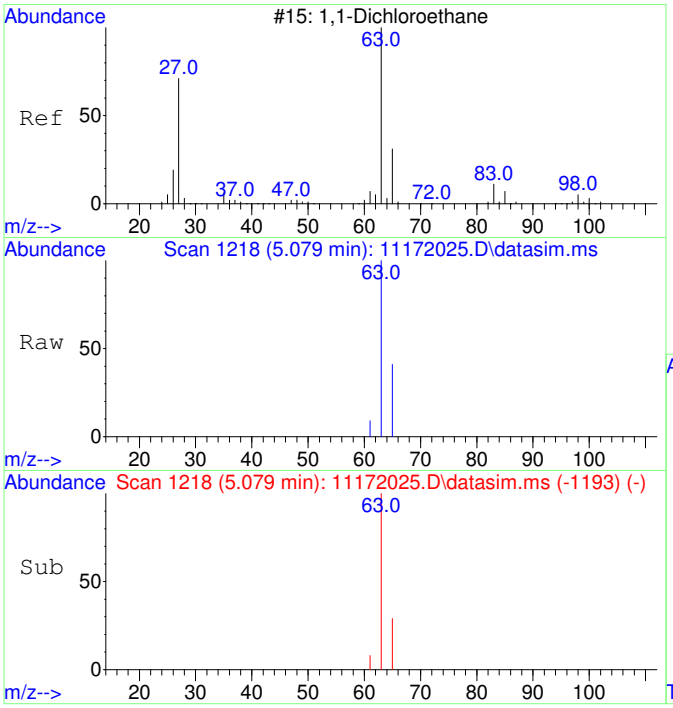


#3
trans-1,2-Dichloroethene
Concen: 762.62 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. 0.020 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 61 Resp: 22330

Ion	Ratio	Lower	Upper
61	100		
63	33.6	2.4	62.4

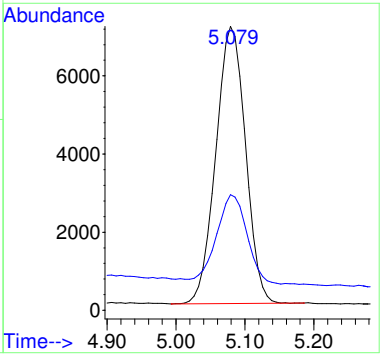


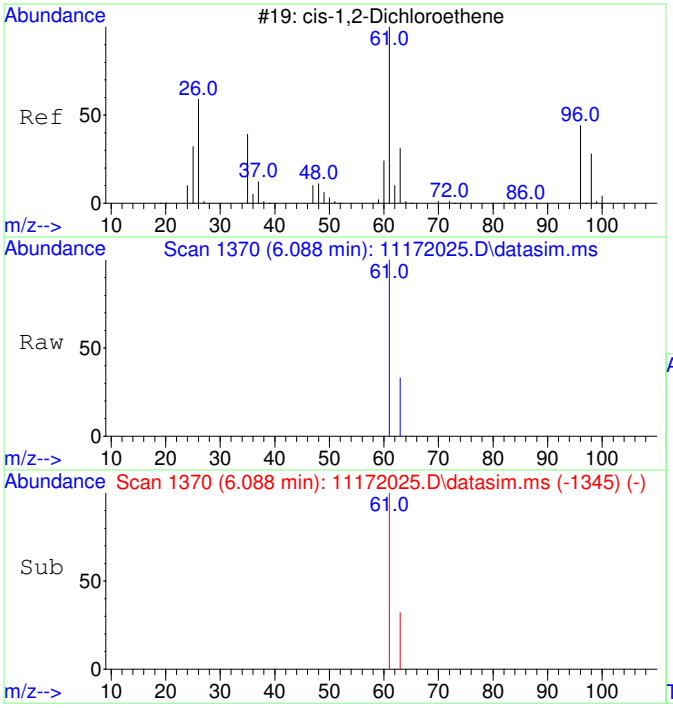


#4
1,1-Dichloroethane
Concen: 581.86 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 63 Resp: 21208

Ion	Ratio	Lower	Upper
63	100		
65	34.0	1.8	61.8

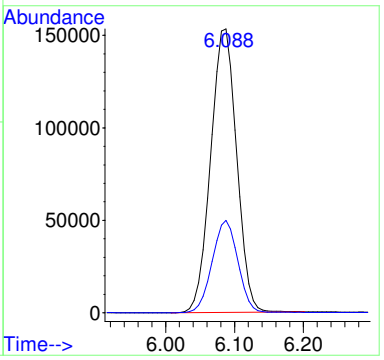


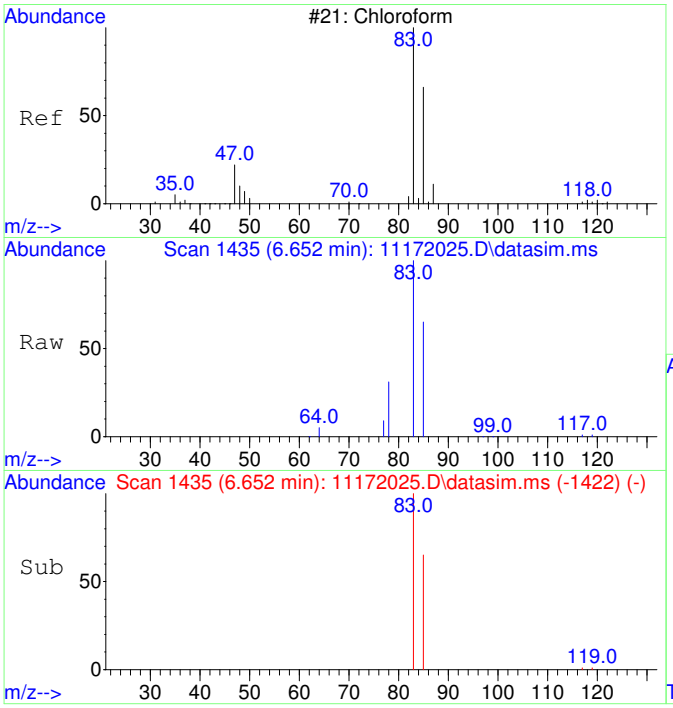


#5
cis-1,2-Dichloroethene
Concen: 10418.99 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 61 Resp: 400862

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.5	62.5

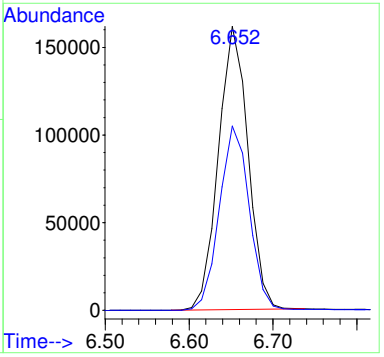


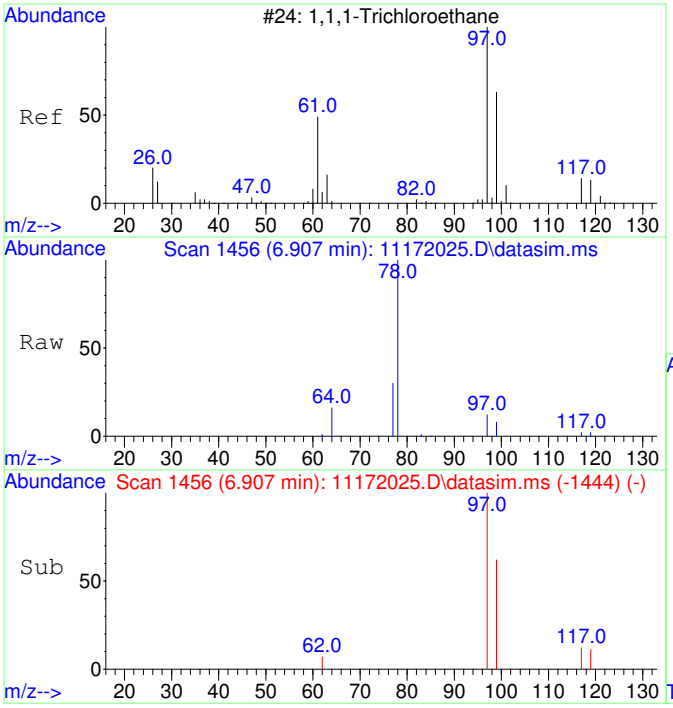


#6
Chloroform
Concen: 10041.17 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 83 Resp: 395419

Ion	Ratio	Lower	Upper
83	100		
85	65.3	35.1	95.1

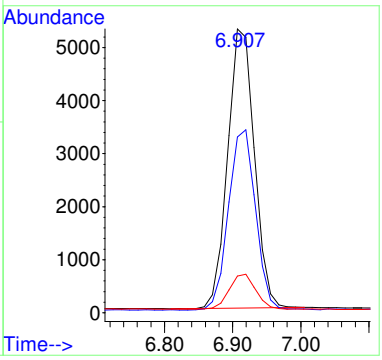


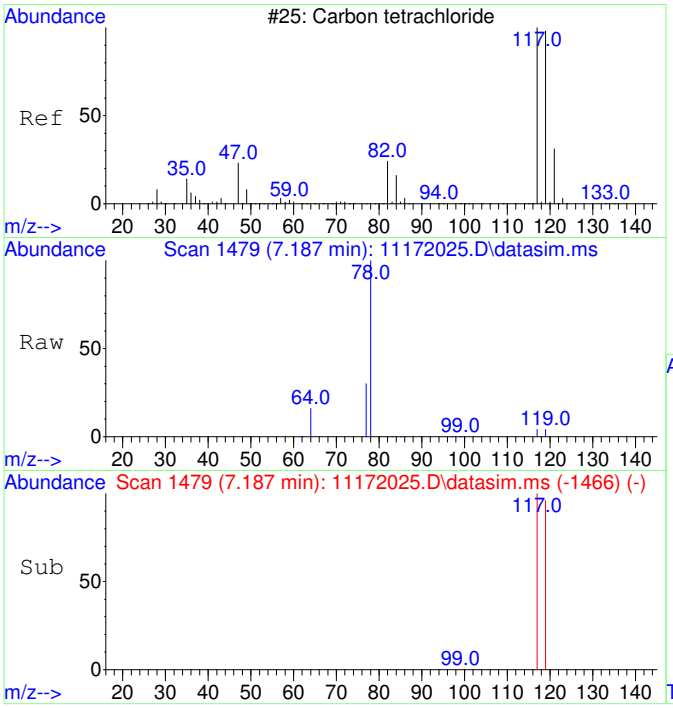


#7
1,1,1-Trichloroethane
Concen: 334.84 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 97 Resp: 14320

Ion	Ratio	Lower	Upper
97	100		
99	64.8	34.6	94.6
117	12.5	0.0	43.2

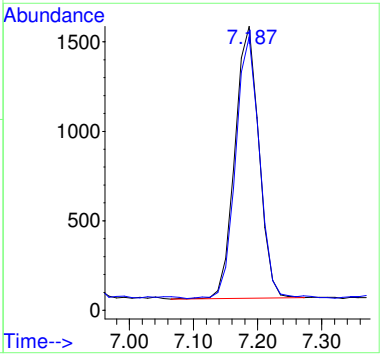


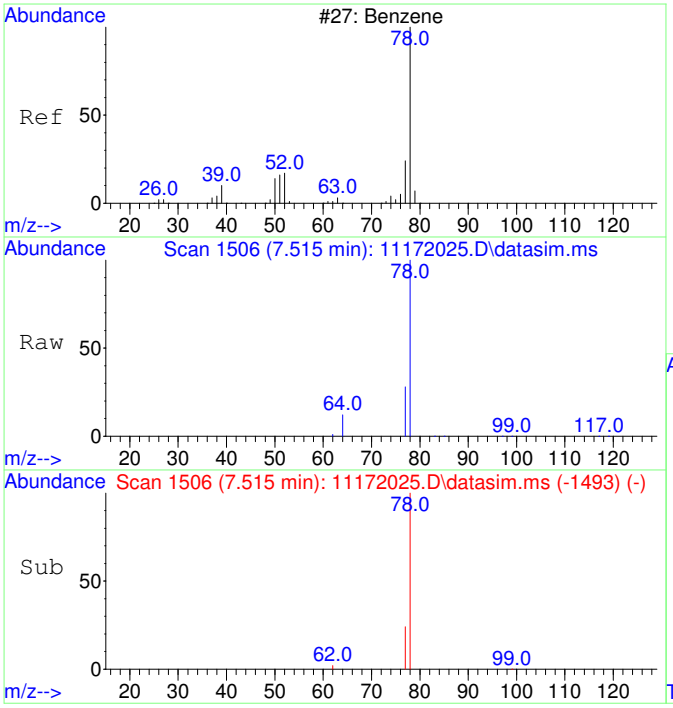


#8
Carbon tetrachloride
Concen: 97.88 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:117 Resp: 3940

Ion	Ratio	Lower	Upper
117	100		
119	94.2	66.4	126.4

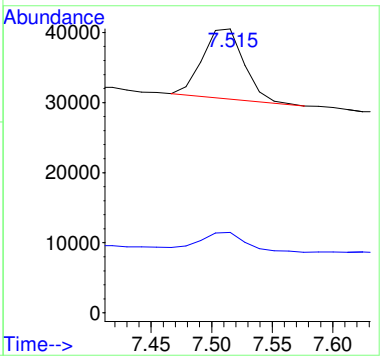


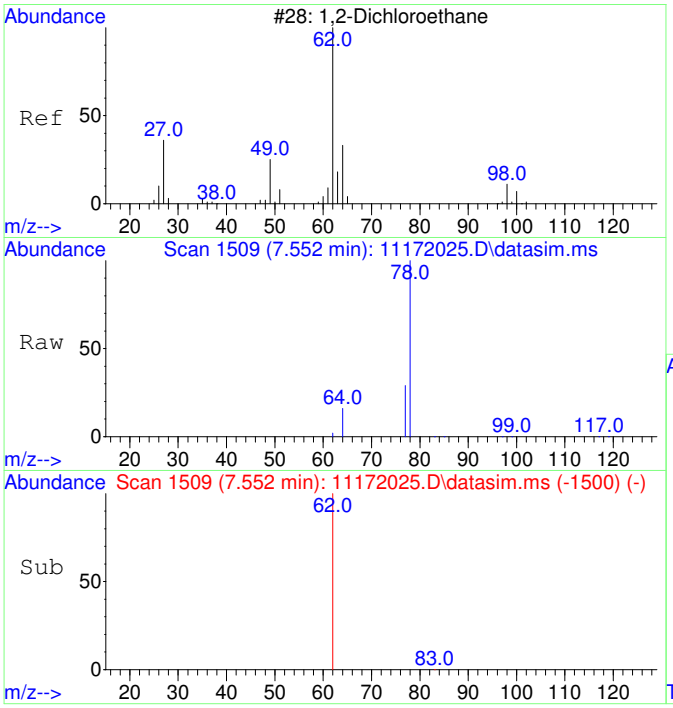


#9
Benzene
Concen: 214.76 ug/L
RT: 7.515 min Scan# 1506
Delta R.T. 0.012 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 78 Resp: 23158

Ion	Ratio	Lower	Upper
78	100		
77	31.8	0.0	53.2

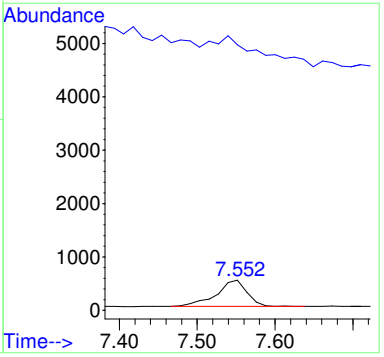


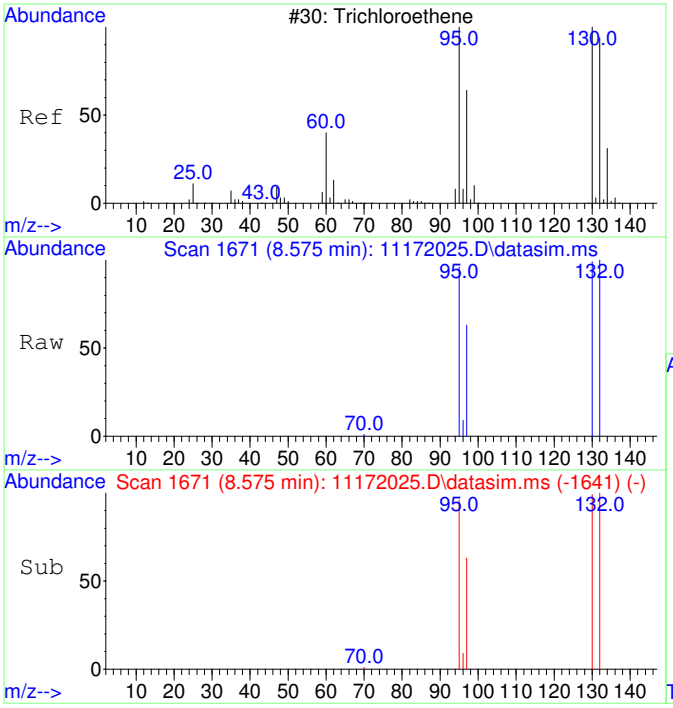


#10
1,2-Dichloroethane
Concen: 34.71 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 62 Resp: 1336

Ion	Ratio	Lower	Upper
62	100		
64	102.2	2.3	62.3#

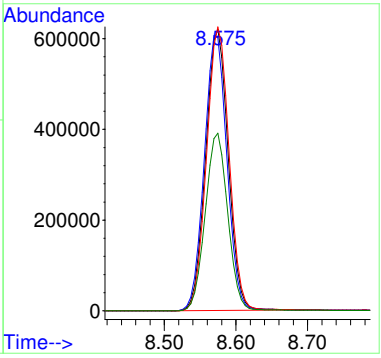


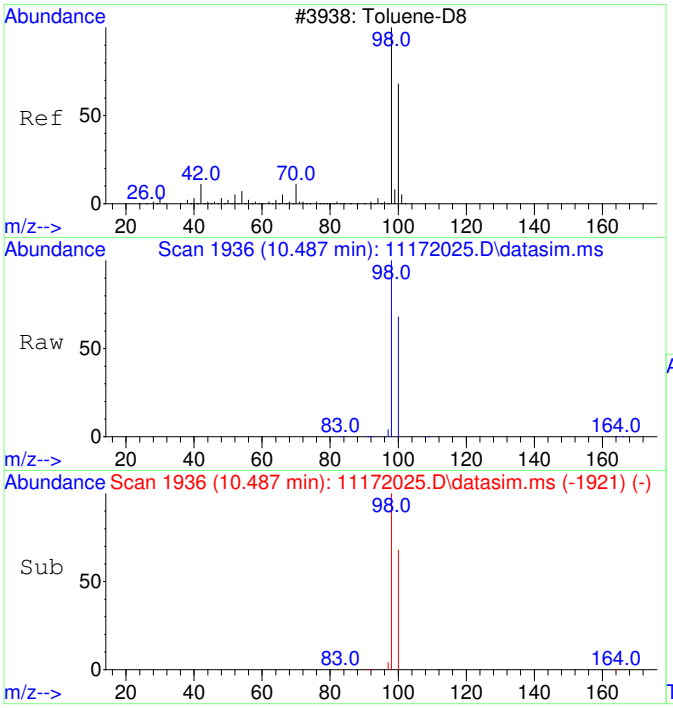


#11
Trichloroethene
Concen: 41638.57 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:130 Resp: 1351879

Ion	Ratio	Lower	Upper
130	100		
95	98.6	60.7	120.7
132	100.7	76.0	116.0
97	63.0	38.6	78.6

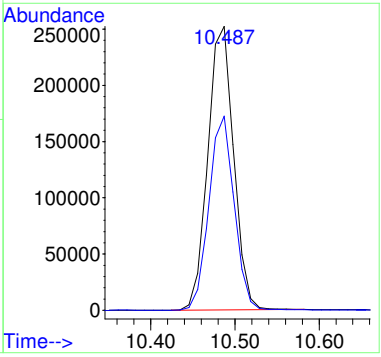


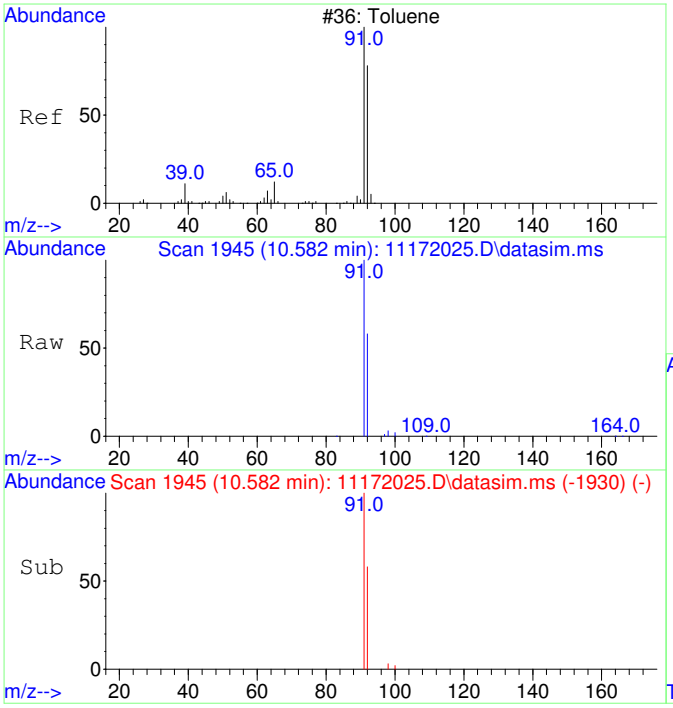


#12
Toluene-d8
Concen: 4336.85 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 98 Resp: 538819

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

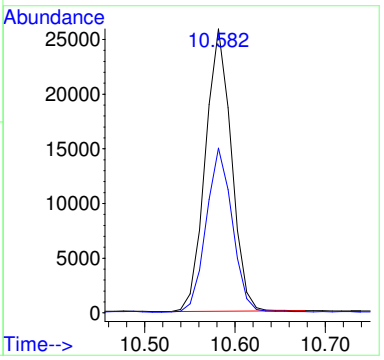


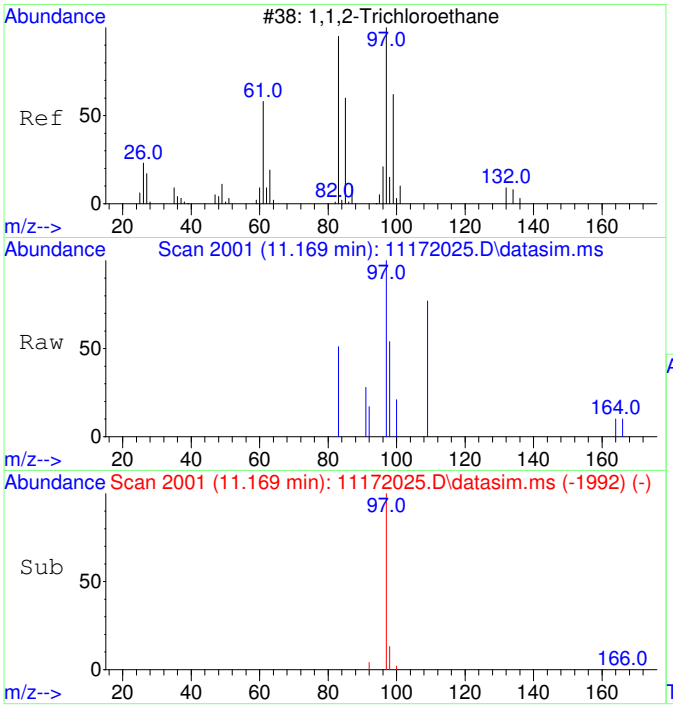


#13
Toluene
Concen: 326.43 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 51705

Ion	Ratio	Lower	Upper
91	100		
92	57.9	29.9	89.9

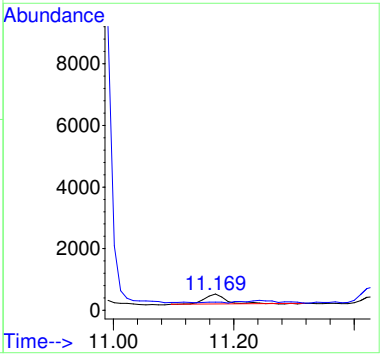


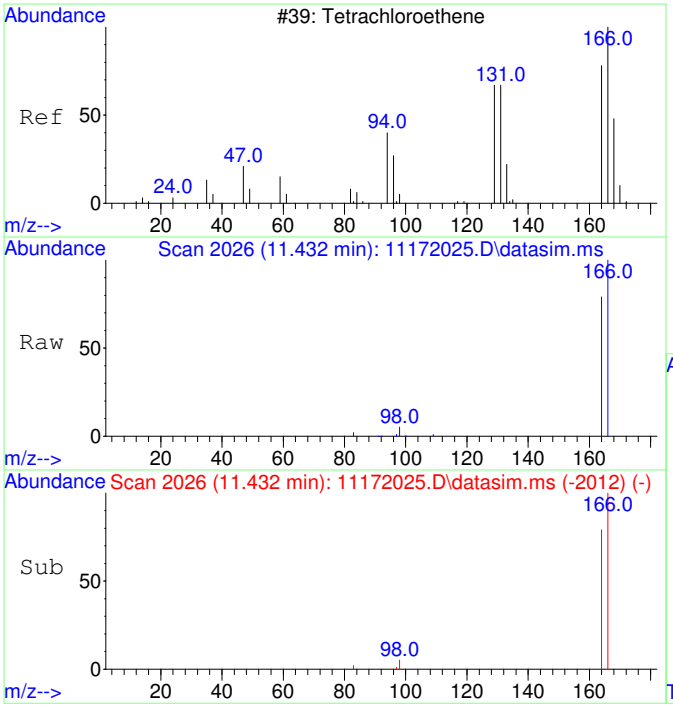


#14
1,1,2-Trichloroethane
Concen: 22.11 ug/L
RT: 11.169 min Scan# 2001
Delta R.T. -0.053 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 97 Resp: 763

Ion	Ratio	Lower	Upper
97	100		
83	8.3	51.2	111.2#

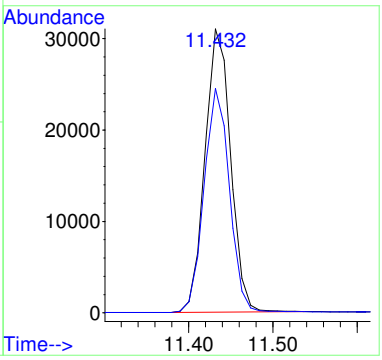


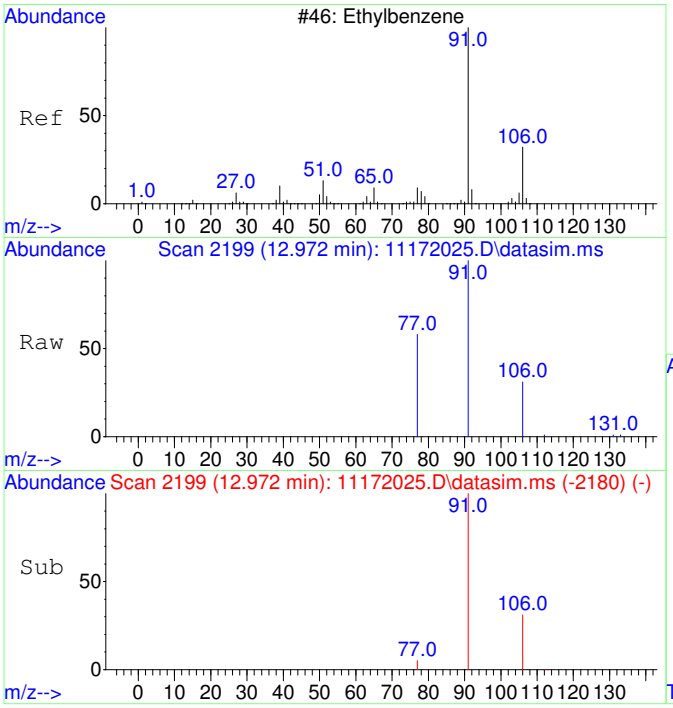


#15
Tetrachloroethene
Concen: 1428.56 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:166 Resp: 65485

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

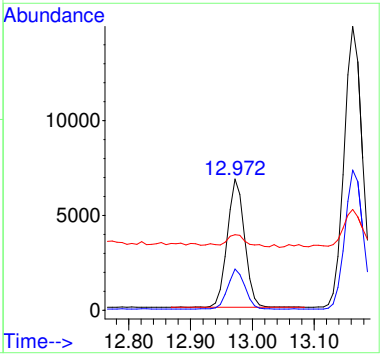


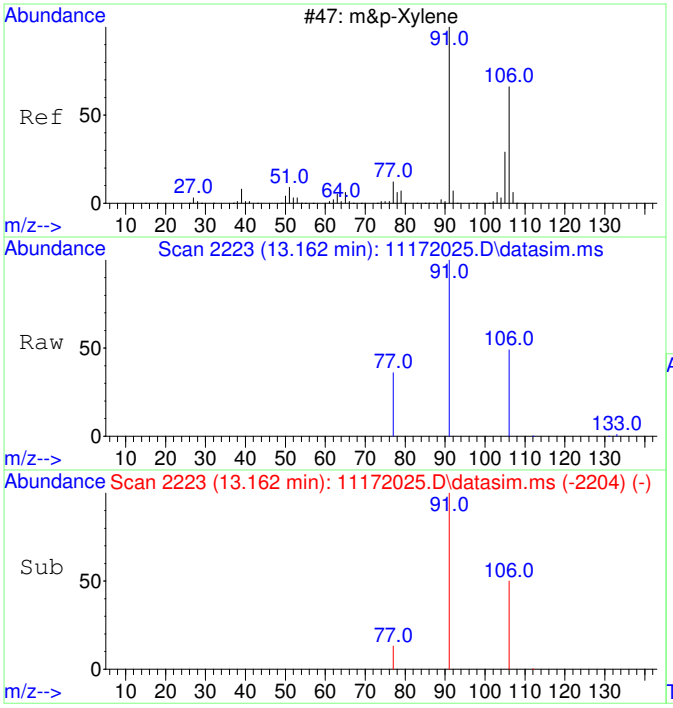


#18
Ethylbenzene
Concen: 68.64 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 13234

Ion	Ratio	Lower	Upper
91	100		
106	31.0	3.0	63.0
77	9.4	0.0	38.2

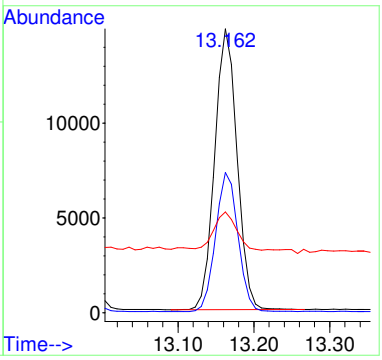


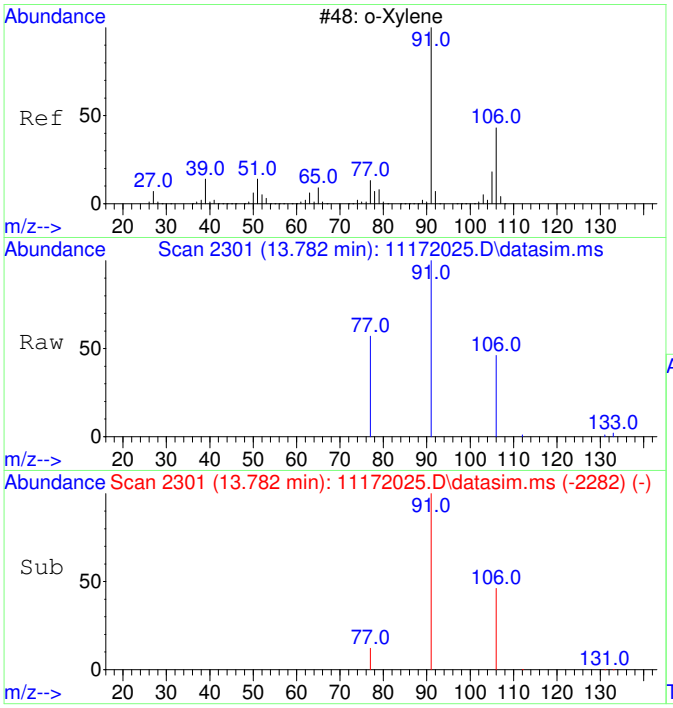


#19
m&p-Xylene
Concen: 201.03 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 30292

Ion	Ratio	Lower	Upper
91	100		
106	49.5	22.2	82.2
77	14.4	0.0	42.4

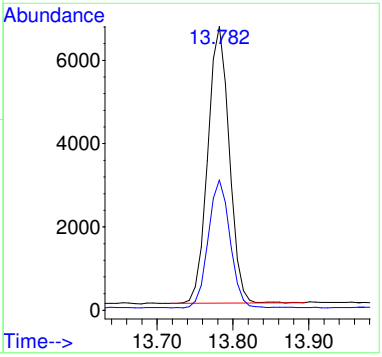


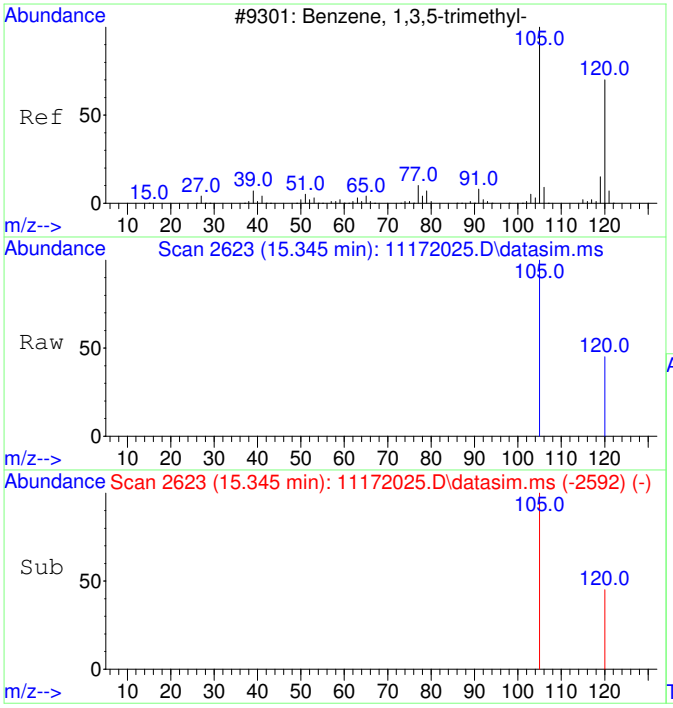


#20
o-Xylene
Concen: 81.00 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 13040

Ion	Ratio	Lower	Upper
91	100		
106	46.5	19.2	79.2

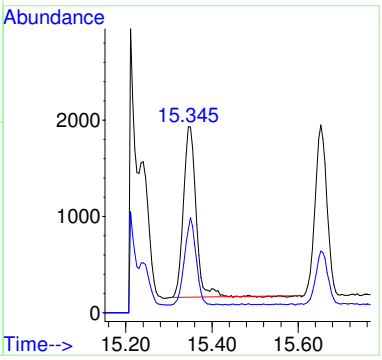


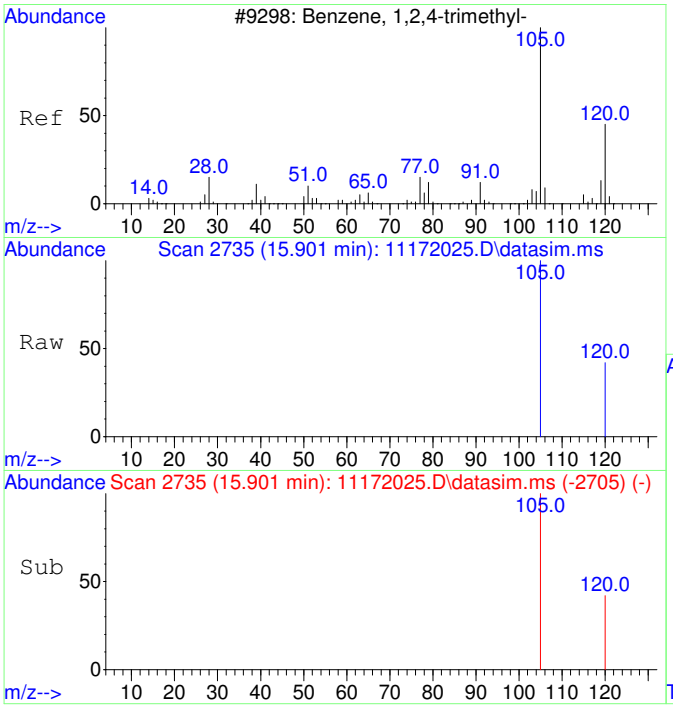


#22
1,3,5-Trimethylbenzene
Concen: 20.83 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:105 Resp: 3570

Ion	Ratio	Lower	Upper
105	100		
120	47.8	21.1	81.1

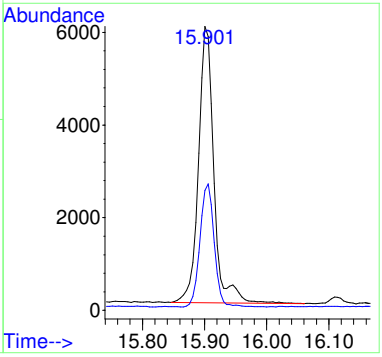


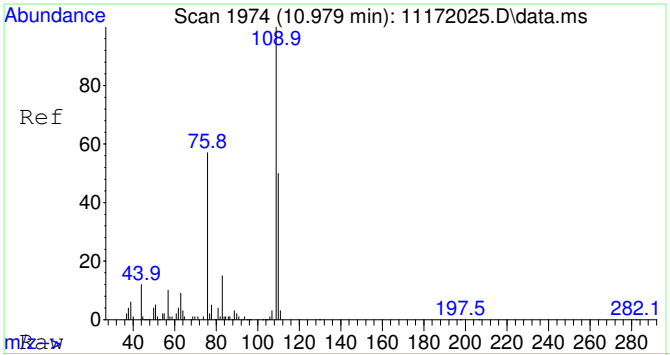


#23
1,2,4-Trimethylbenzene
Concen: 57.70 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:105 Resp: 10269

Ion	Ratio	Lower	Upper
105	100		
120	41.1	17.2	77.2

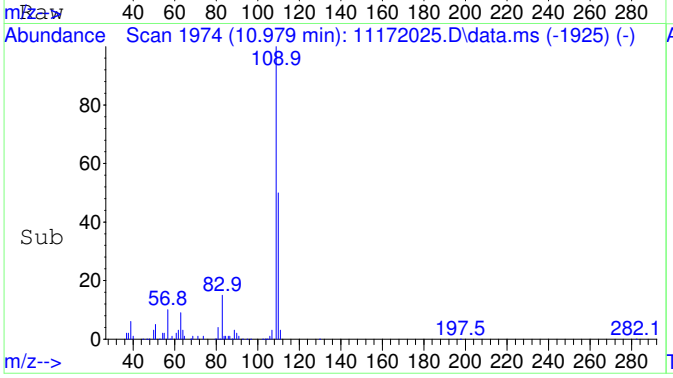


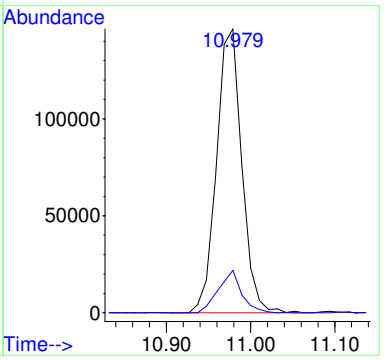


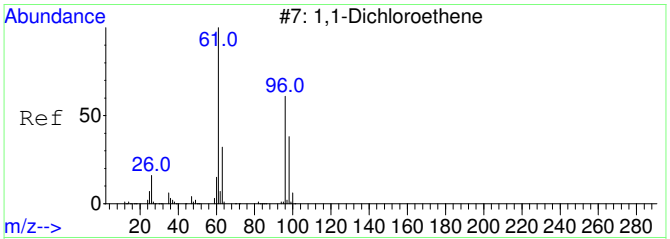
#25
2-Fluorotoluene SCAN
Concen: 4937.46 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:109 Resp: 305470

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	43.8



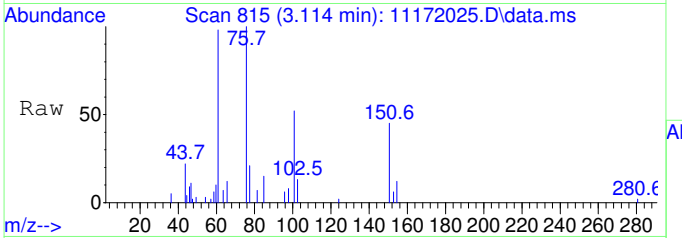


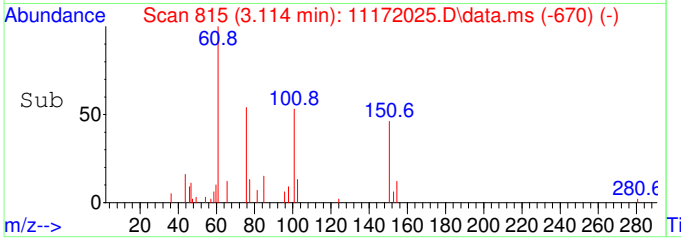


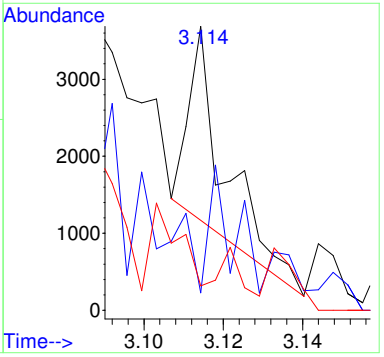
#26
1,1-Dichloroethene SCAN
Concen: 105.72 ug/L
RT: 3.114 min Scan# 815
Delta R.T. 0.037 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

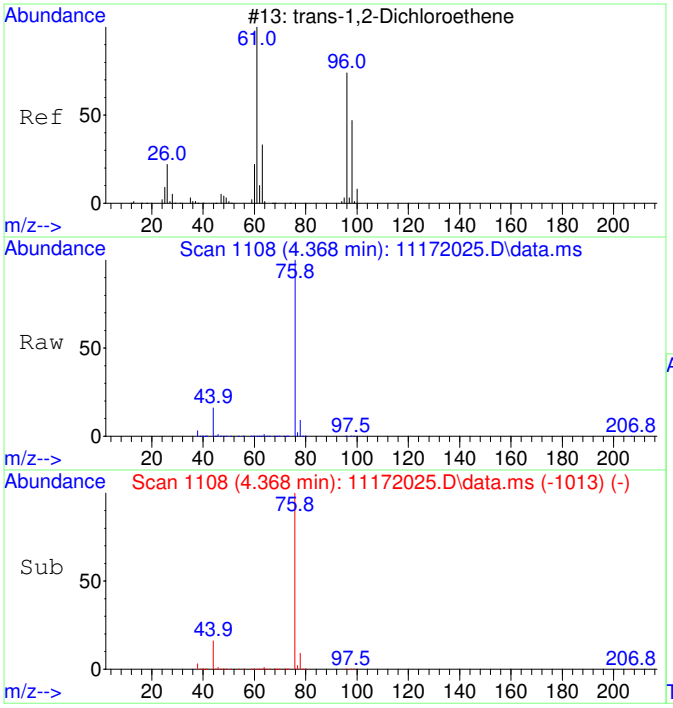
Tgt Ion: 61 Resp: 1389

Ion	Ratio	Lower	Upper
61	100		
96	89.4	33.1	93.1
98	37.6	11.2	71.2





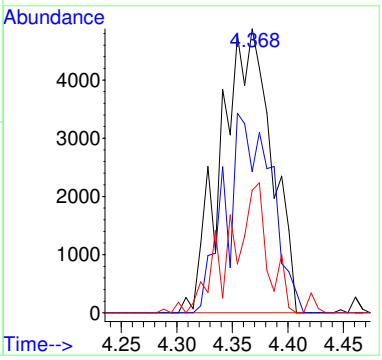


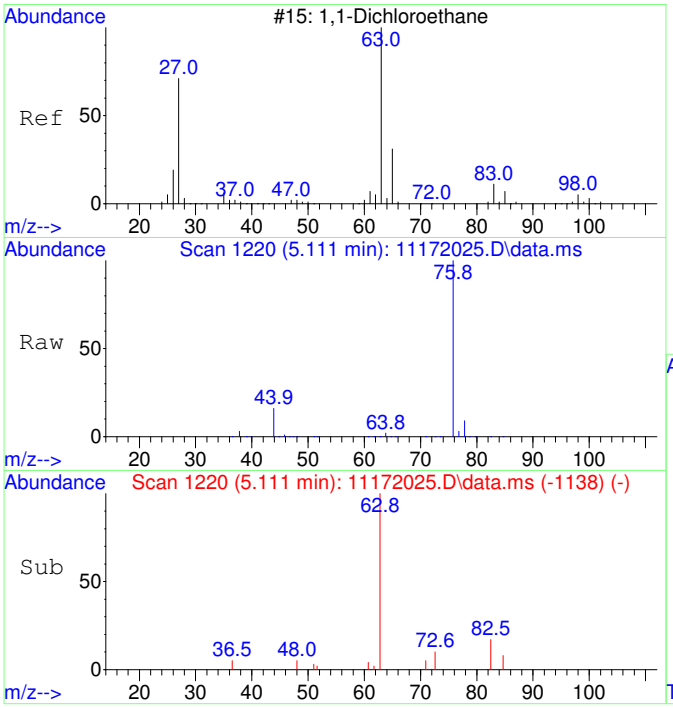


#27
trans-1,2-Dichloroethene SCAN
Concen: 952.55 ug/L
RT: 4.368 min Scan# 1108
Delta R.T. 0.020 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 61 Resp: 15487

Ion	Ratio	Lower	Upper
61	100		
96	63.0	49.0	109.0
98	23.4	20.5	80.5

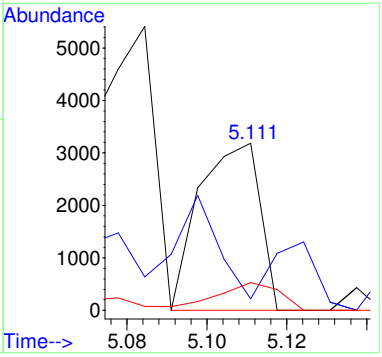


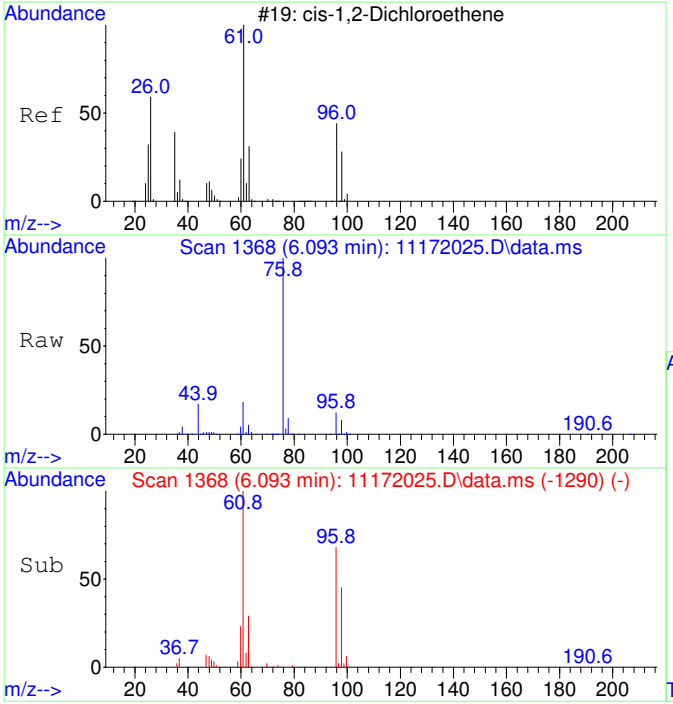


#28
1,1-Dichloroethane SCAN
Concen: 178.89 ug/L
RT: 5.111 min Scan# 1220
Delta R.T. 0.046 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 63 Resp: 3366

Ion	Ratio	Lower	Upper
63	100		
65	32.4	1.3	61.3
83	14.8	0.0	45.9

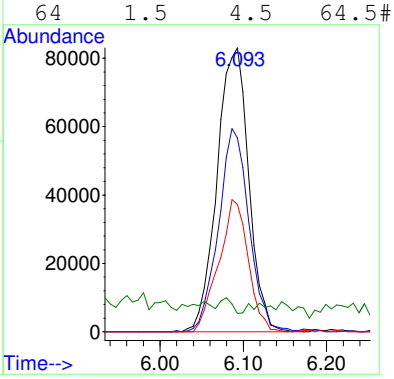


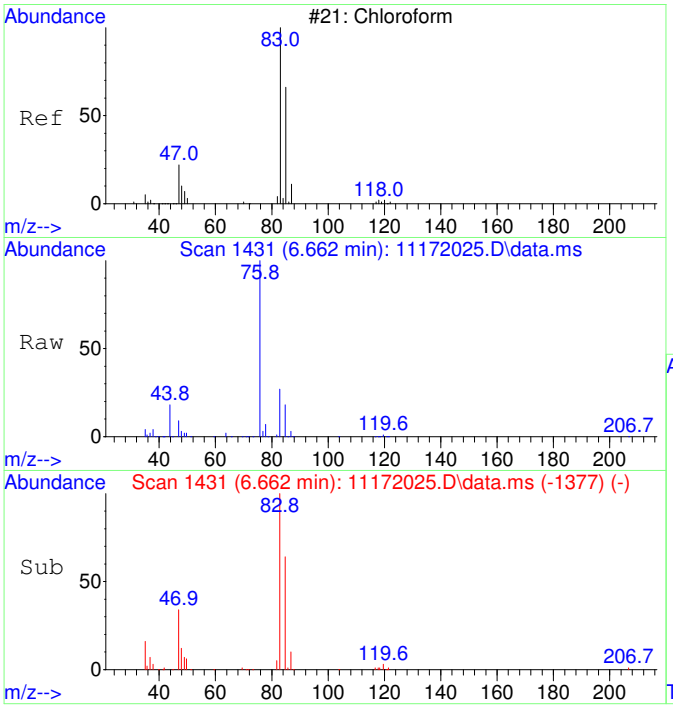


#29
cis-1,2-Dichloroethene SCAN
Concen: 10905.61 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 61 Resp: 219853

Ion	Ratio	Lower	Upper
61	100		
96	68.3	39.9	99.9
98	43.2	13.5	73.5
64	1.5	4.5	64.5#

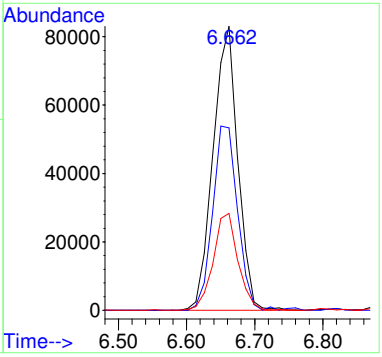


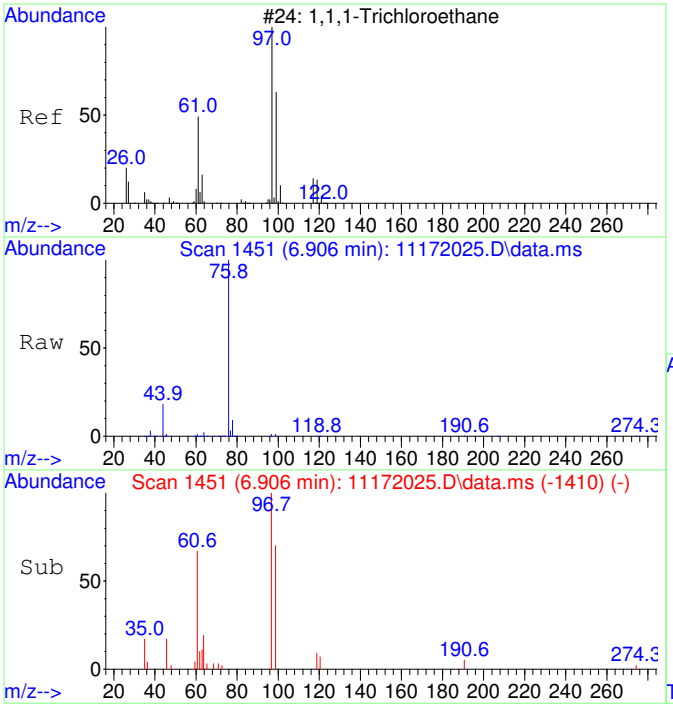


#30
Chloroform SCAN
Concen: 9577.55 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 83 Resp: 209422

Ion	Ratio	Lower	Upper
83	100		
85	65.8	34.6	94.6
47	34.4	0.0	53.4

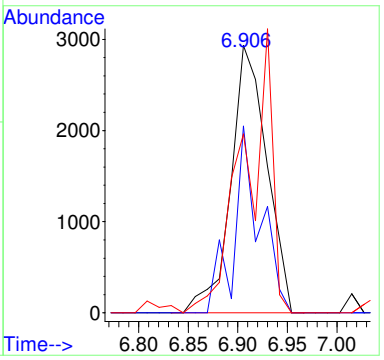


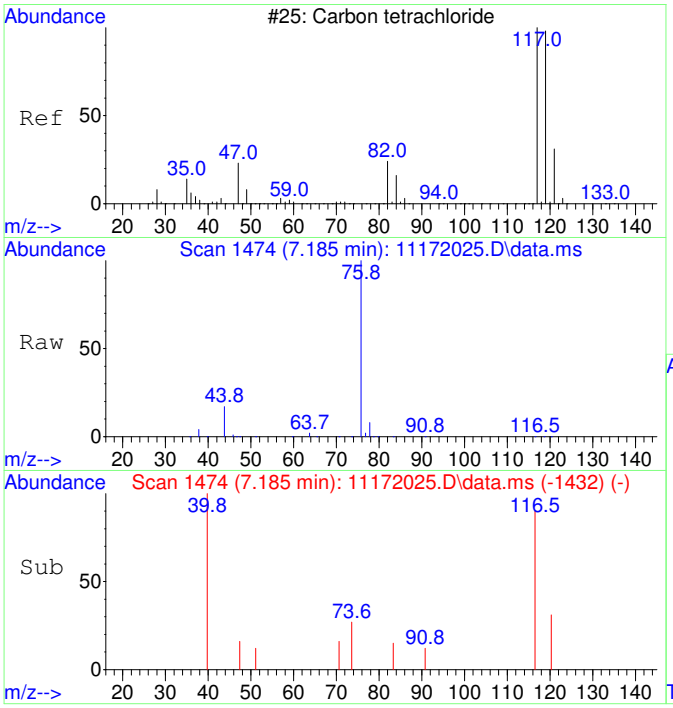


#31
1,1,1-Trichloroethane SCAN
Concen: 372.13 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 97 Resp: 7415

Ion	Ratio	Lower	Upper
97	100		
99	51.3	43.6	103.6
61	0.0	18.0	78.0#

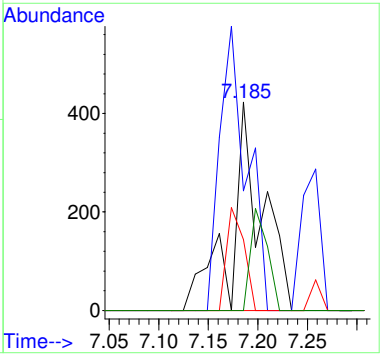


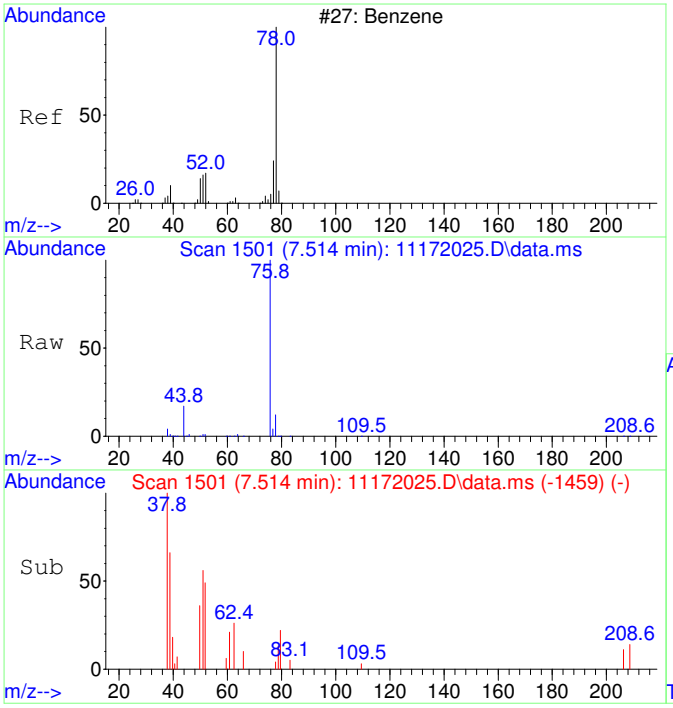


#32
Carbon tetrachloride SCAN
Concen: 44.26 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:117 Resp: 920

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	26.7	0.0	59.2

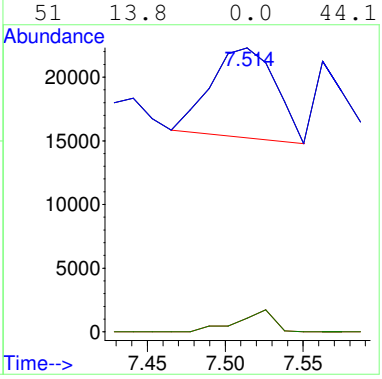


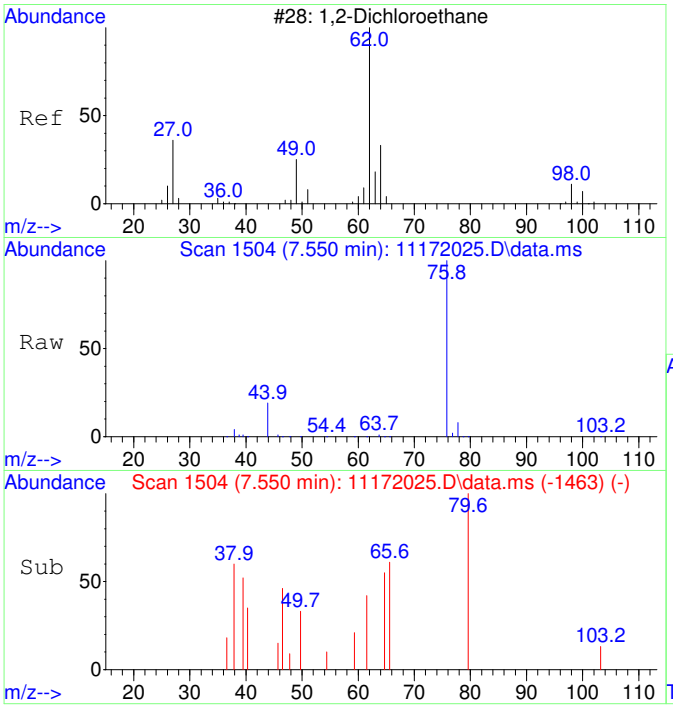


#33
Benzene SCAN
Concen: 365.78 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 78 Resp: 20068

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	13.8	0.0	47.9
51	13.8	0.0	44.1

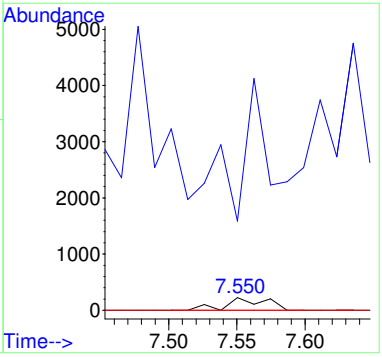


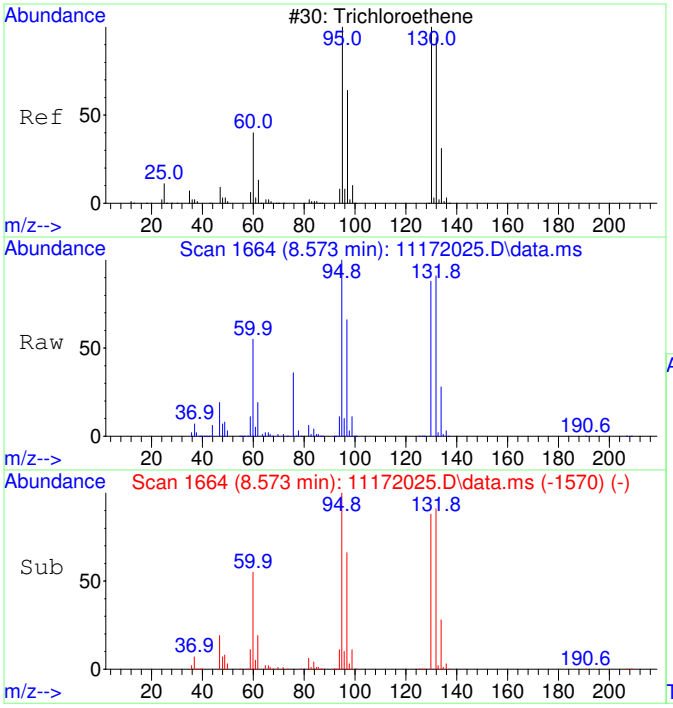


#34
1,2-Dichloroethane SCAN
Concen: 23.25 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 62 Resp: 471

Ion	Ratio	Lower	Upper
62	100		
64	334.4	5.2	65.2#
49	0.0	3.9	63.9#

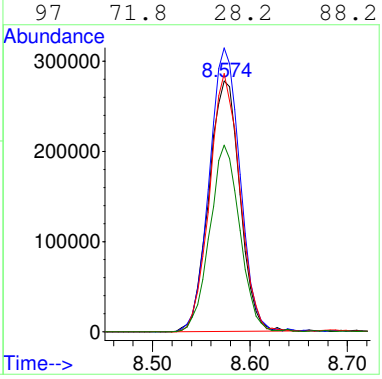


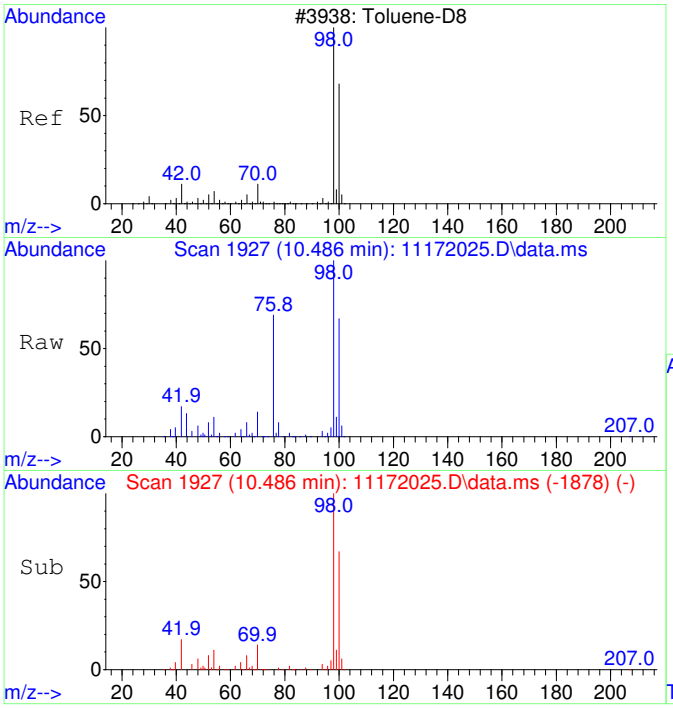


#35
Trichloroethene SCAN
Concen: 40910.89 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:130 Resp: 616810

Ion	Ratio	Lower	Upper
130	100		
95	110.8	60.5	120.5
132	99.8	59.6	119.6
97	71.8	28.2	88.2

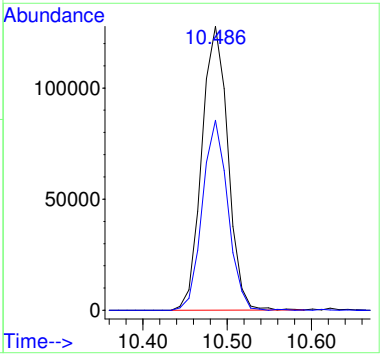


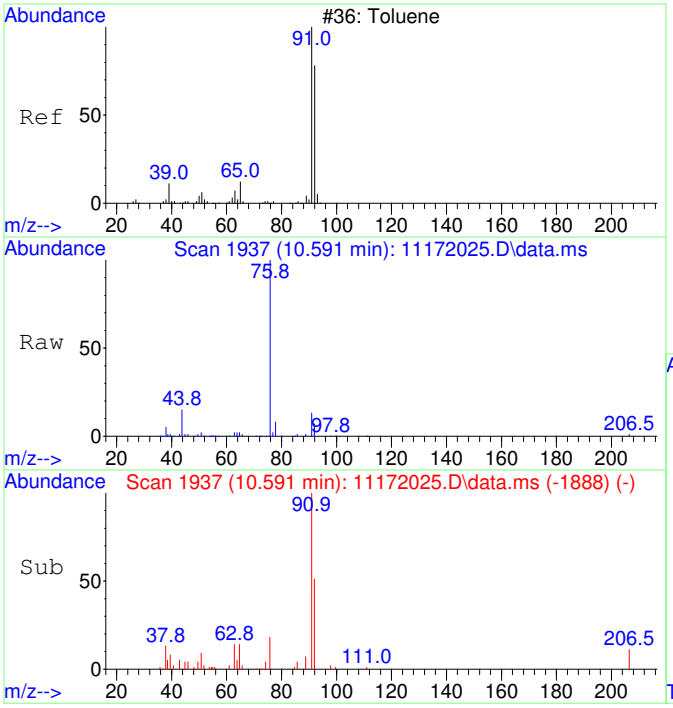


#36
Toluene-d8 SCAN
Concen: 4564.34 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 98 Resp: 276165

Ion	Ratio	Lower	Upper
98	100		
100	65.0	40.0	100.0

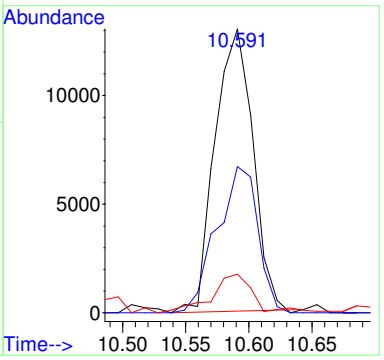


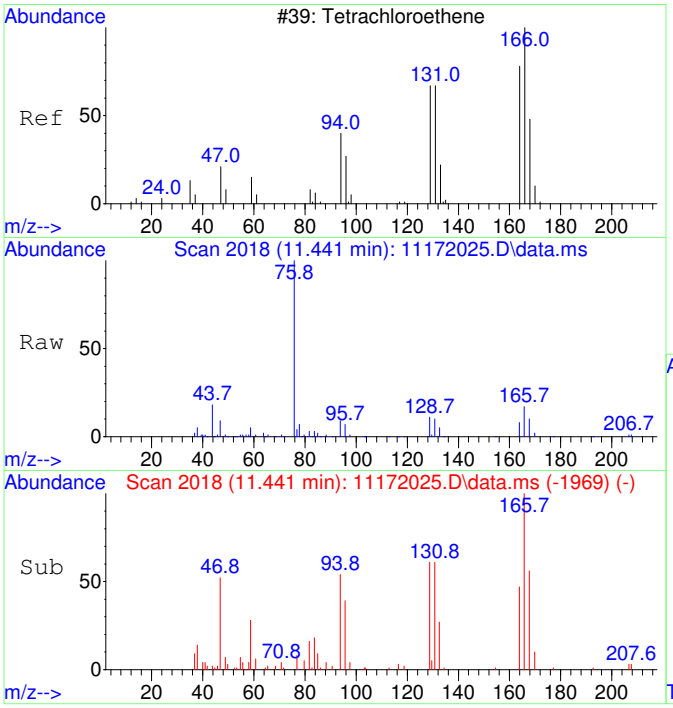


#37
Toluene SCAN
Concen: 350.26 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 27140

Ion	Ratio	Lower	Upper
91	100		
92	56.1	28.3	88.3
65	14.4	0.0	41.0

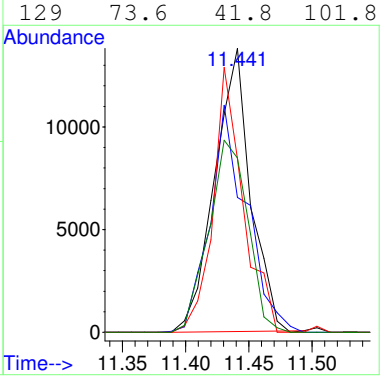


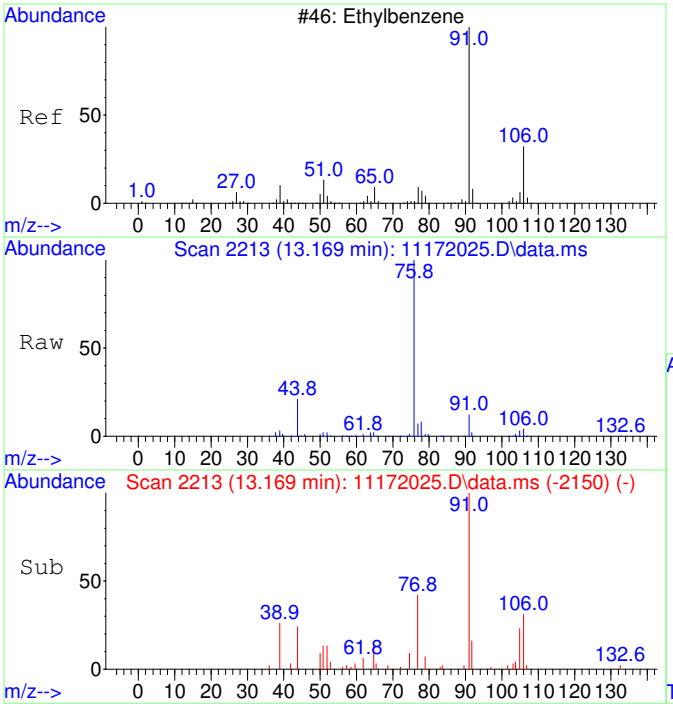


#39
Tetrachloroethene SCAN
Concen: 1471.13 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:166 Resp: 27386

Ion	Ratio	Lower	Upper
166	100		
164	81.4	50.9	110.9
131	77.6	38.7	98.7
129	73.6	41.8	101.8

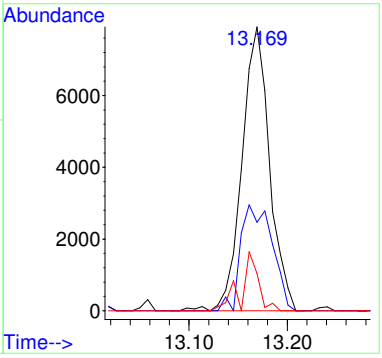


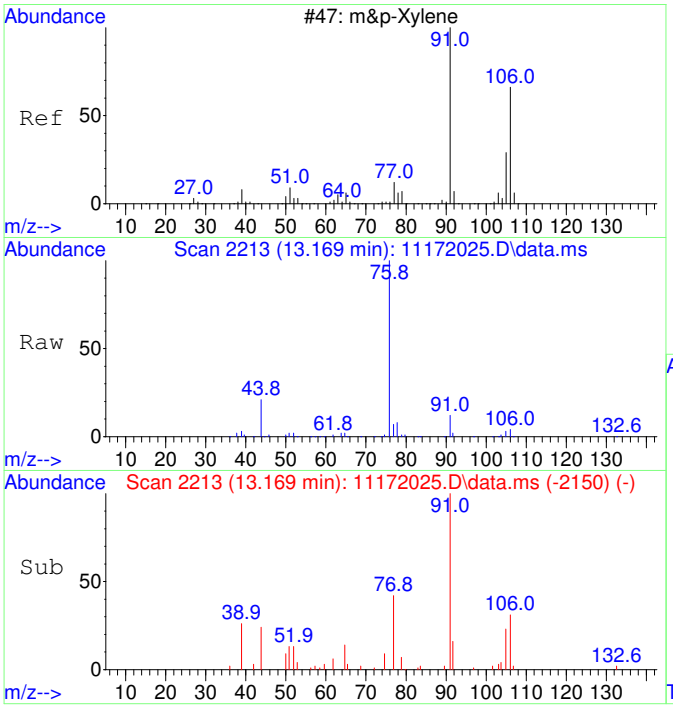


#42
Ethylbenzene SCAN
Concen: 109.06 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 15395

Ion	Ratio	Lower	Upper
91	100		
106	42.9	23.1	83.1
51	12.9	0.0	40.1

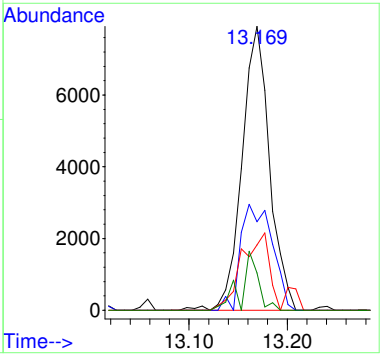


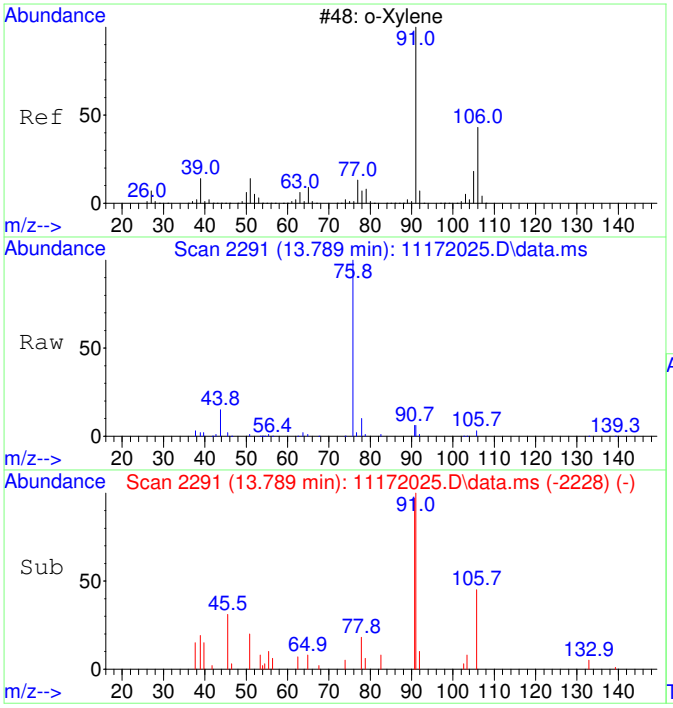


#43
m&p-Xylene SCAN
Concen: 109.06 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 15395

Ion	Ratio	Lower	Upper
91	100		
106	42.9	23.1	83.1
105	27.3	0.0	54.7
51	12.9	0.0	40.1

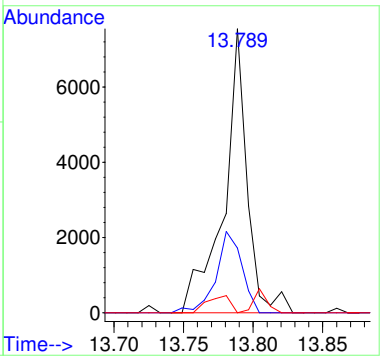


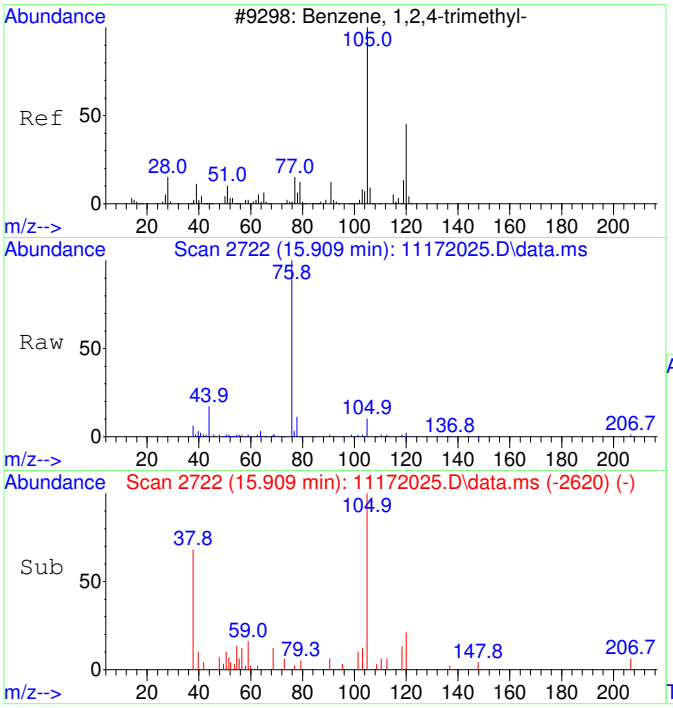


#44
o-Xylene SCAN
Concen: 116.20 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 8780

Ion	Ratio	Lower	Upper
91	100		
106	31.7	18.0	78.0
105	6.0	0.0	56.6

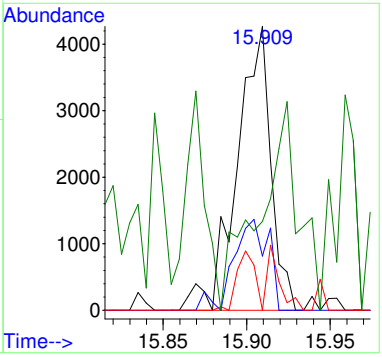




#47
1,2,4-Trimethylbenzene SCAN
Concen: 74.11 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.005 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:105 Resp: 6039

Ion	Ratio	Lower	Upper
105	100		
120	32.6	16.9	76.9
119	8.4	0.0	41.9
77	0.0	0.0	42.3



Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172025.D
Acq On : 17 Nov 2020 17:22
InstName : AG5975C
Operator : TD
Sample : 2011017-14
Misc :
ALS Vial : 25 Sample Multiplier: 1

M.I. Performed By:
TD at 9:42 am, Nov 23, 2020

M.I. Approved By:
ZR at 3:43 pm, Nov 23, 2020

Quant Time: Nov 18 06:16:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

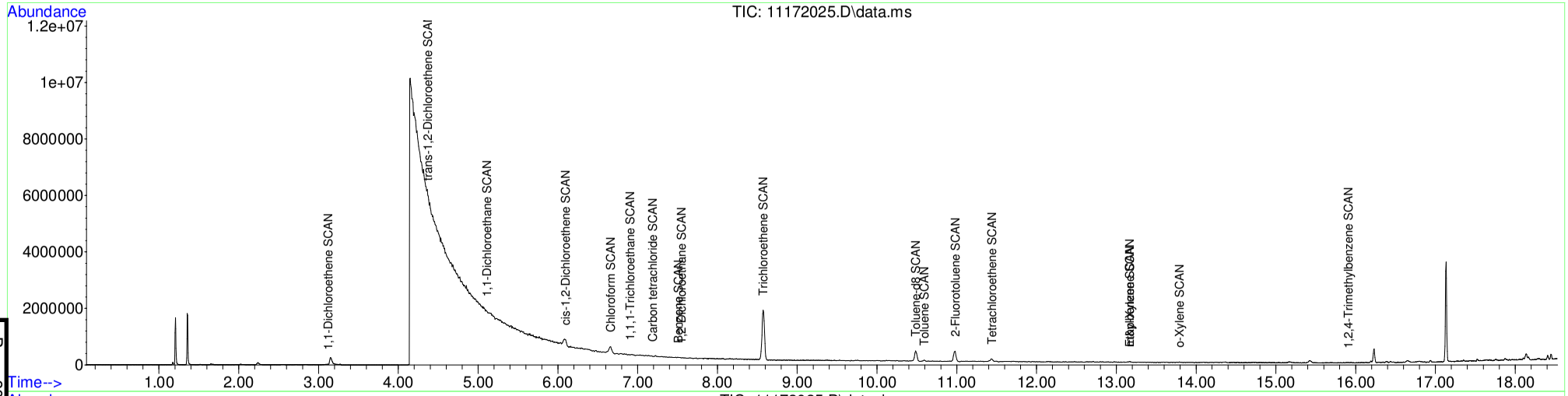
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	634662	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	538819	4336.85 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.74%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	17866m	704.97 ug/L	
3] trans-1,2-Dichloroethene	4.362	61	22330	762.62 ug/L	98
4] 1,1-Dichloroethane	5.079	63	21208	581.86 ug/L	96
5] cis-1,2-Dichloroethene	6.088	61	400862	10418.99 ug/L	99
6] Chloroform	6.652	83	395419	10041.17 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	14320	334.84 ug/L	99
8] Carbon tetrachloride	7.187	117	3940	97.88 ug/L	98
9] Benzene	7.515	78	23158	214.76 ug/L	82
10] 1,2-Dichloroethane	7.552	62	1336	34.71 ug/L #	1
11] Trichloroethene	8.575	130	1351879	41638.57 ug/L **oc**	94
13] Toluene	10.582	91	51705	326.43 ug/L	97
14] 1,1,2-Trichloroethane	11.169	97	763	22.11 ug/L #	18
15] Tetrachloroethene	11.432	166	65485	1428.56 ug/L	100
18] Ethylbenzene	12.972	91	13234	68.64 ug/L	96
19] m&p-Xylene	13.162	91	30292	201.03 ug/L	96
20] o-Xylene	13.782	91	13040	81.00 ug/L	96
22] 1,3,5-Trimethylbenzene	15.345	105	3570	20.83 ug/L	95
23] 1,2,4-Trimethylbenzene	15.901	105	10269	57.70 ug/L	91
25) 2-Fluorotoluene SCAN	10.979	109	305470	4937.46 ug/L	100
26) 1,1-Dichloroethene SCAN	3.114	61	1389	105.72 ug/L	77
27) trans-1,2-Dichloroethe...	4.368	61	15487	952.55 ug/L	74
28) 1,1-Dichloroethane SCAN	5.111	63	3366	178.89 ug/L	98
29) cis-1,2-Dichloroethene...	6.093	61	219853	10905.61 ug/L #	86
30) Chloroform SCAN	6.662	83	209422	9577.55 ug/L	93
31) 1,1,1-Trichloroethane ...	6.906	97	7415	372.13 ug/L #	56
32) Carbon tetrachloride SCAN	7.185	117	920	44.26 ug/L #	24
33) Benzene SCAN	7.514	78	20068	365.78 ug/L	99
34) 1,2-Dichloroethane SCAN	7.550	62	471	23.25 ug/L #	1
35) Trichloroethene SCAN	8.573	130	616810	40910.89 ug/L	83
36) Toluene-d8 SCAN	10.486	98	276165	4564.34 ug/L	94
37) Toluene SCAN	10.591	91	27140	350.26 ug/L	96
39) Tetrachloroethene SCAN	11.441	166	27386	1471.13 ug/L	96
42) Ethylbenzene SCAN	13.169	91	15395	109.06 ug/L	87
43) m&p-Xylene SCAN	13.169	91	15395	109.06 ug/L	89
44) o-Xylene SCAN	13.789	91	8780	116.20 ug/L	70
47) 1,2,4-Trimethylbenzene...	15.909	105	6039	74.11 ug/L #	79

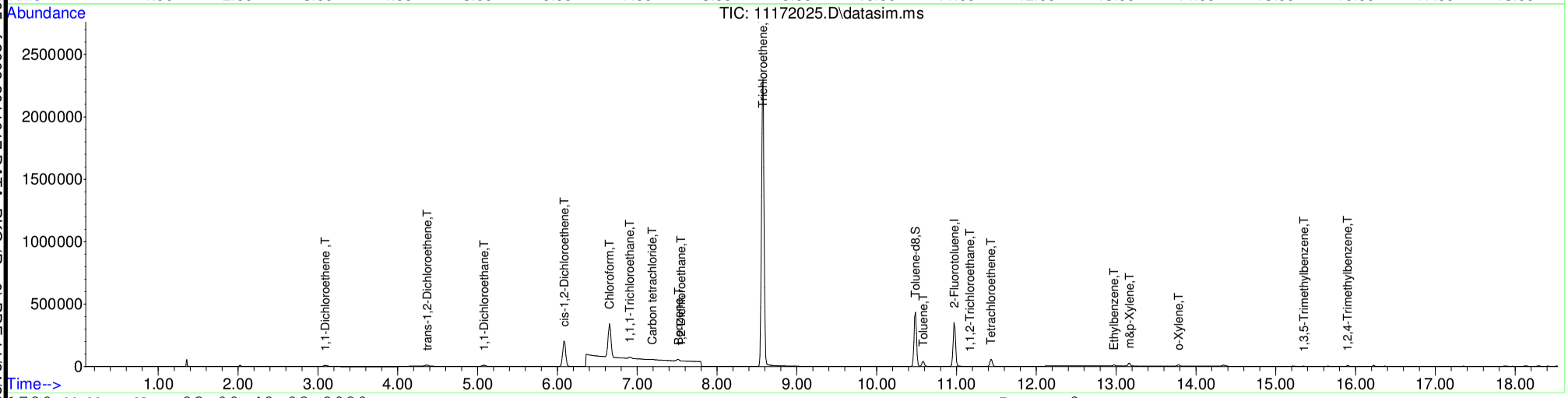
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172025.D
Acq On : 17 Nov 2020 17:22
InstName : AG5975C
Operator : TD
Sample : 2011017-14
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 18 06:16:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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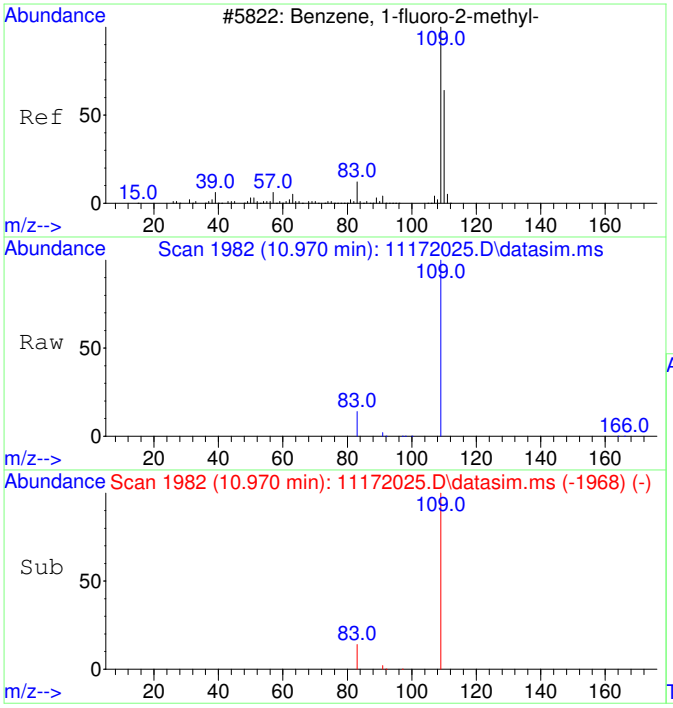
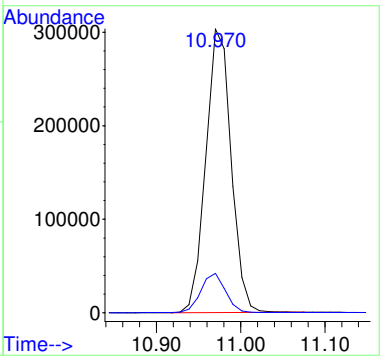
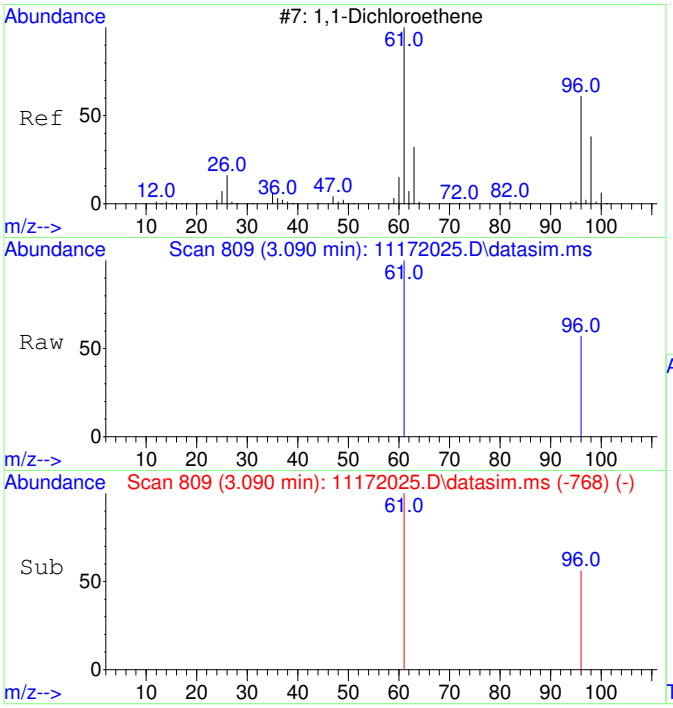


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:109 Resp: 634662

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

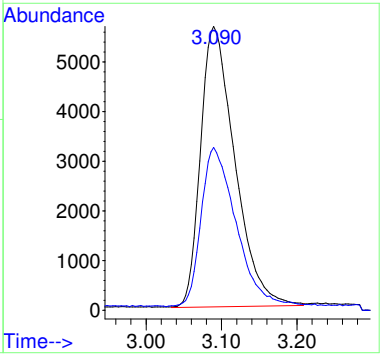


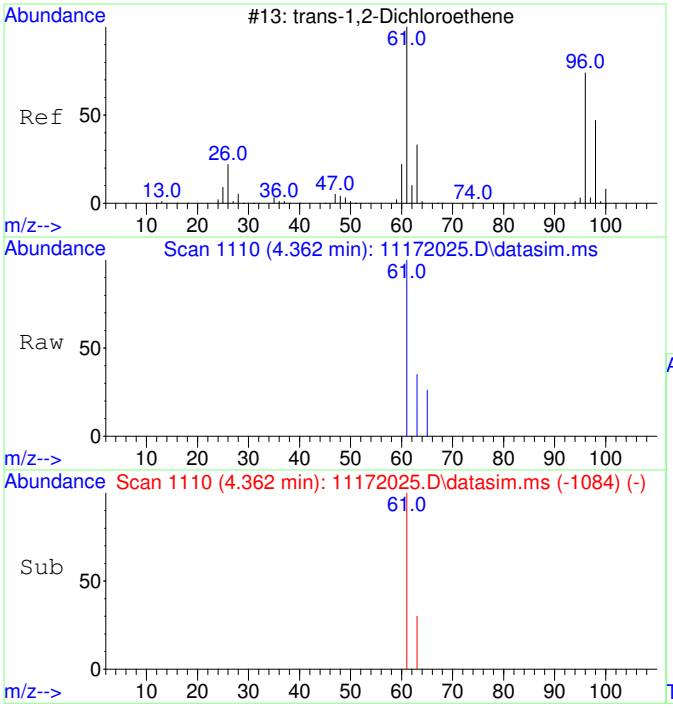


#2
1,1-Dichloroethene
Concen: 704.97 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 61 Resp: 17866

Ion	Ratio	Lower	Upper
61	100		
96	60.1	37.2	97.2

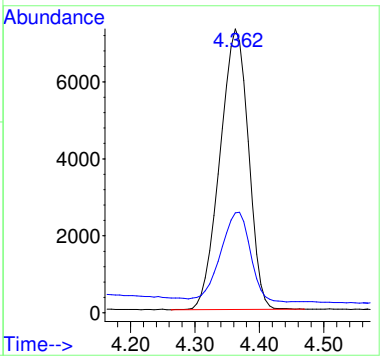


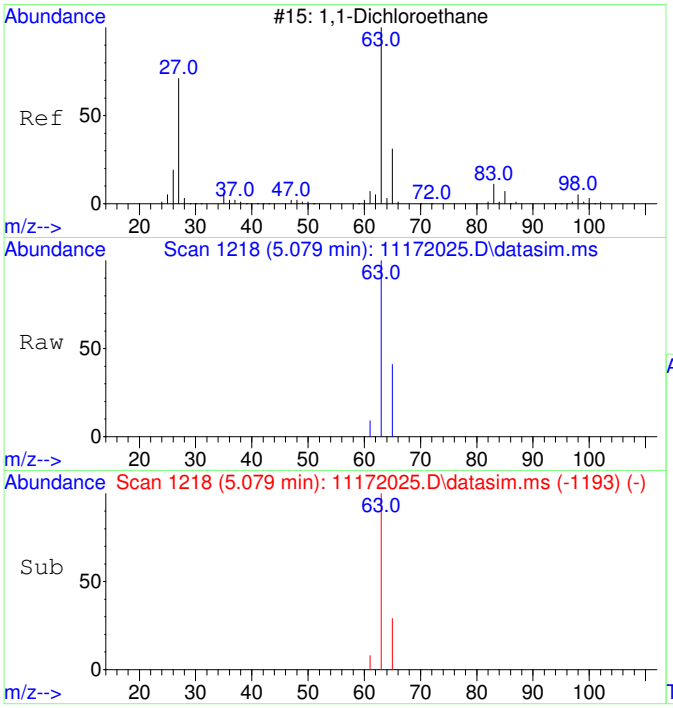


#3
trans-1,2-Dichloroethene
Concen: 762.62 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. 0.020 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 61 Resp: 22330

Ion	Ratio	Lower	Upper
61	100		
63	33.6	2.4	62.4

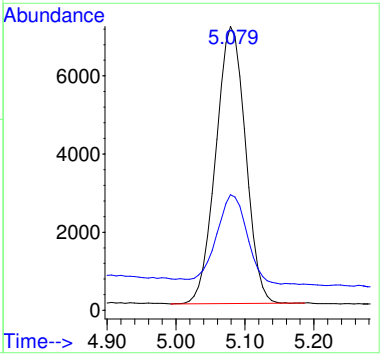


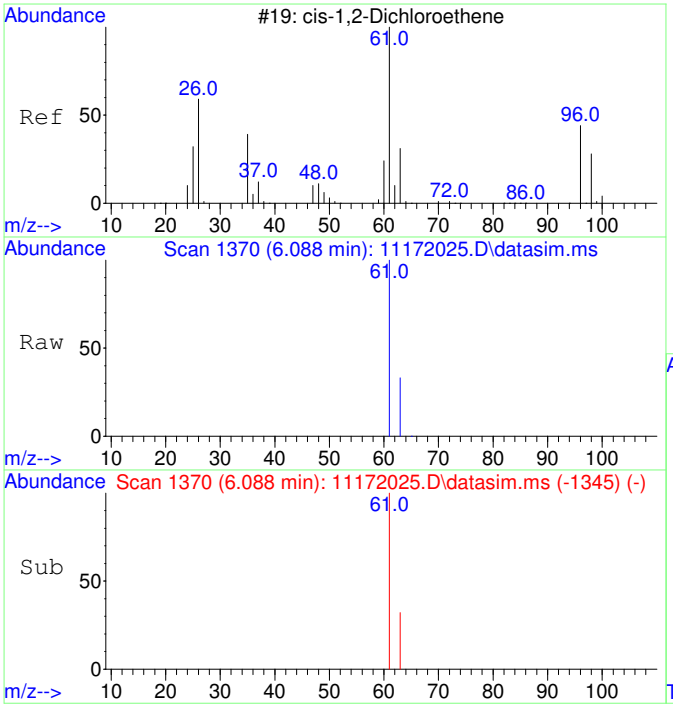


#4
1,1-Dichloroethane
Concen: 581.86 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 63 Resp: 21208

Ion	Ratio	Lower	Upper
63	100		
65	34.0	1.8	61.8

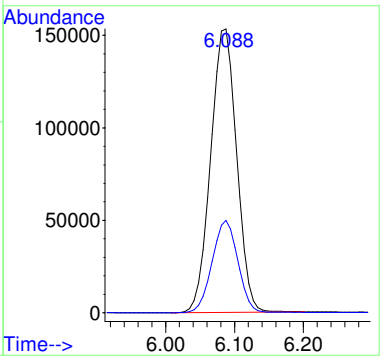


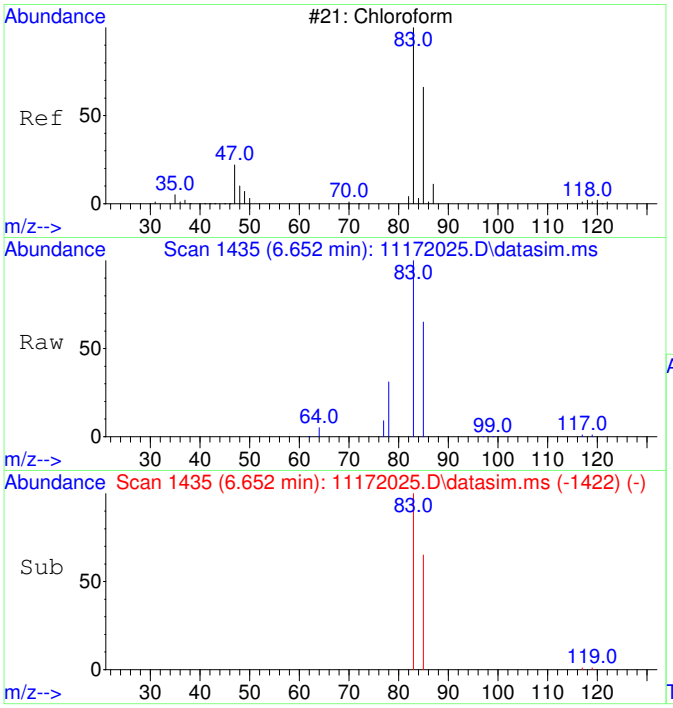


#5
cis-1,2-Dichloroethene
Concen: 10418.99 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 61 Resp: 400862

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.5	62.5

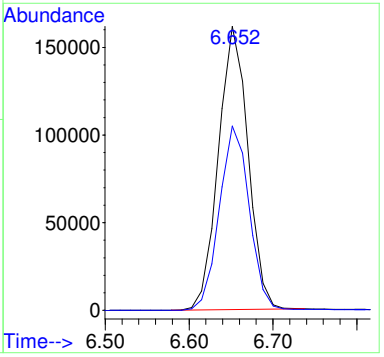


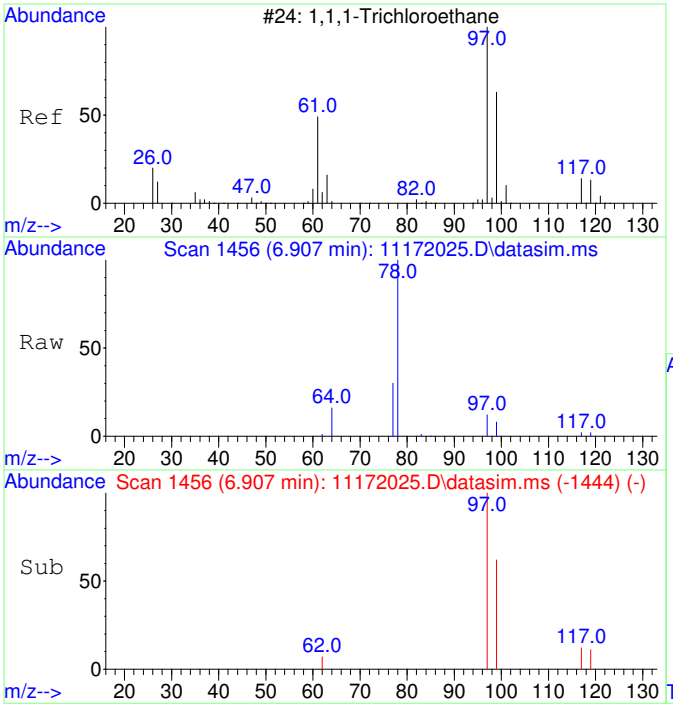


#6
Chloroform
Concen: 10041.17 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 83 Resp: 395419

Ion	Ratio	Lower	Upper
83	100		
85	65.3	35.1	95.1

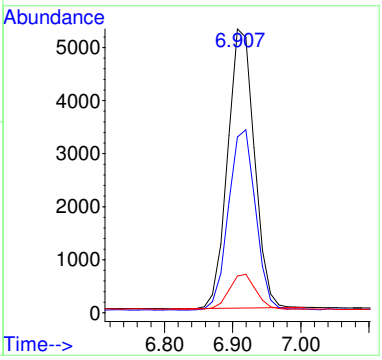


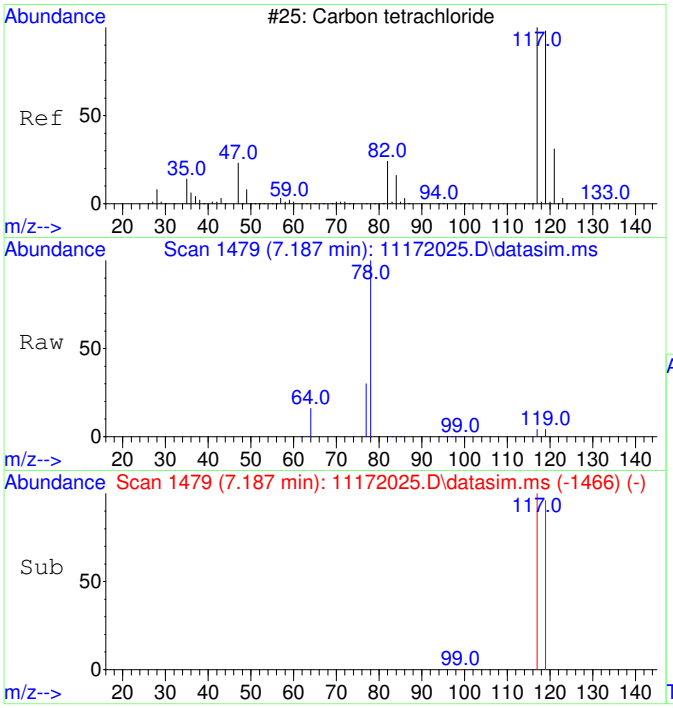


#7
1,1,1-Trichloroethane
Concen: 334.84 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 97 Resp: 14320

Ion	Ratio	Lower	Upper
97	100		
99	64.8	34.6	94.6
117	12.5	0.0	43.2

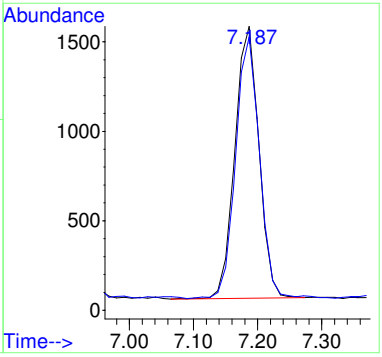


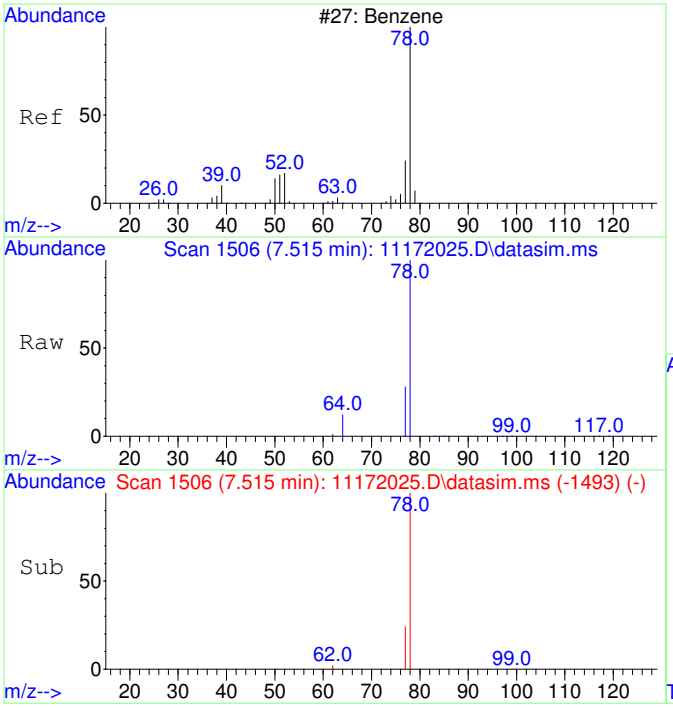


#8
Carbon tetrachloride
Concen: 97.88 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:117 Resp: 3940

Ion	Ratio	Lower	Upper
117	100		
119	94.2	66.4	126.4

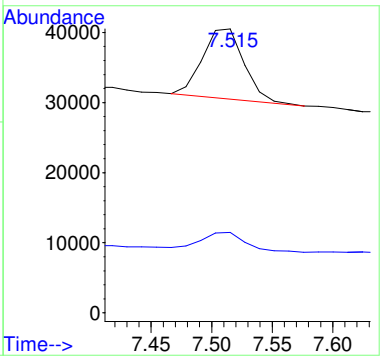


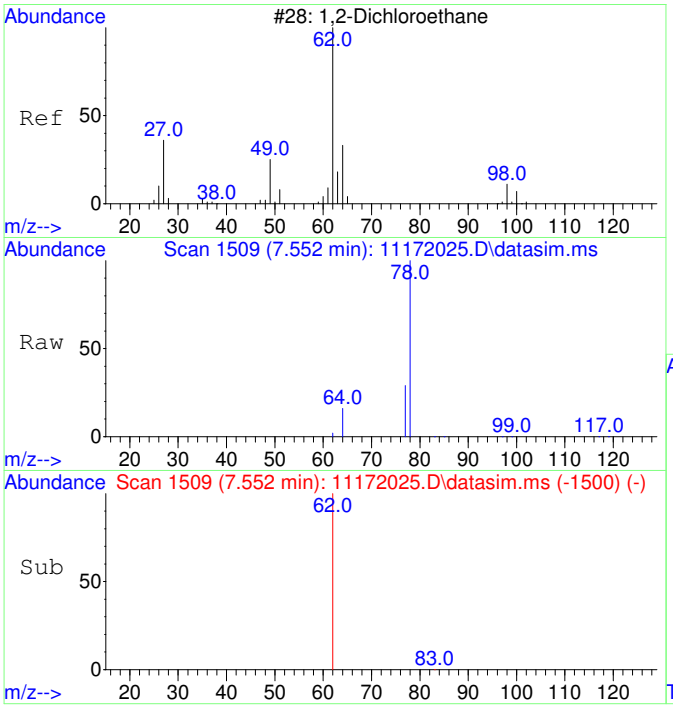


#9
Benzene
Concen: 214.76 ug/L
RT: 7.515 min Scan# 1506
Delta R.T. 0.012 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 78 Resp: 23158

Ion	Ratio	Lower	Upper
78	100		
77	31.8	0.0	53.2

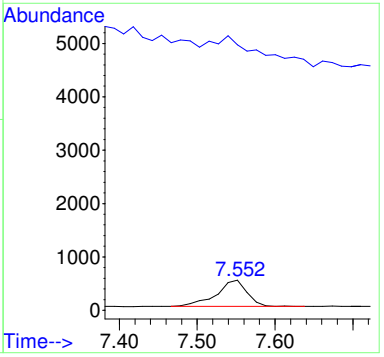


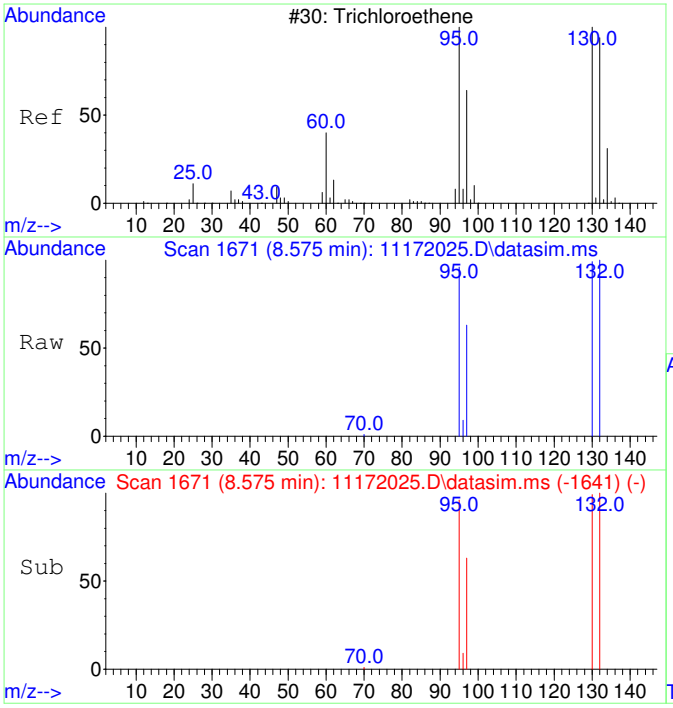


#10
1,2-Dichloroethane
Concen: 34.71 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 62 Resp: 1336

Ion	Ratio	Lower	Upper
62	100		
64	102.2	2.3	62.3#

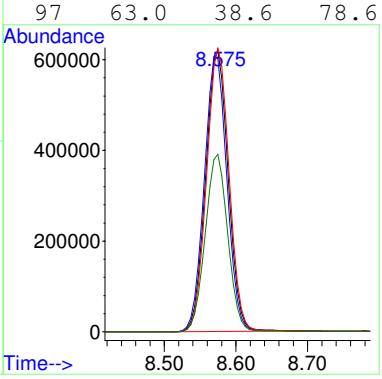


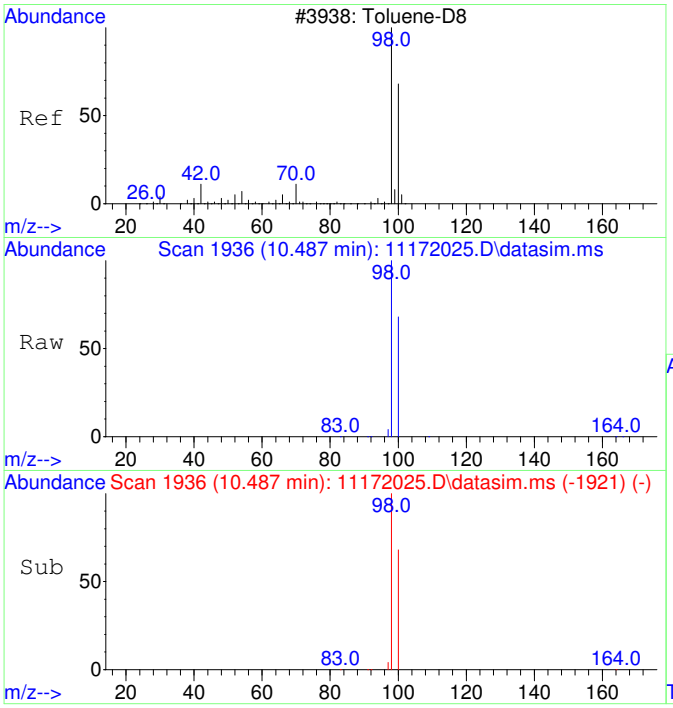


#11
Trichloroethene
Concen: 41638.57 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:130 Resp: 1351879

Ion	Ratio	Lower	Upper
130	100		
95	98.6	60.7	120.7
132	100.7	76.0	116.0
97	63.0	38.6	78.6

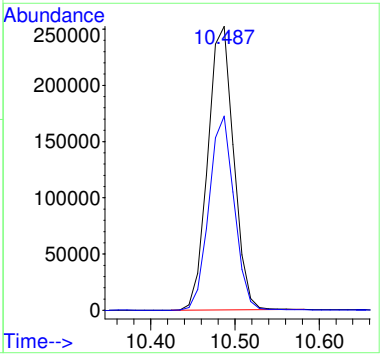


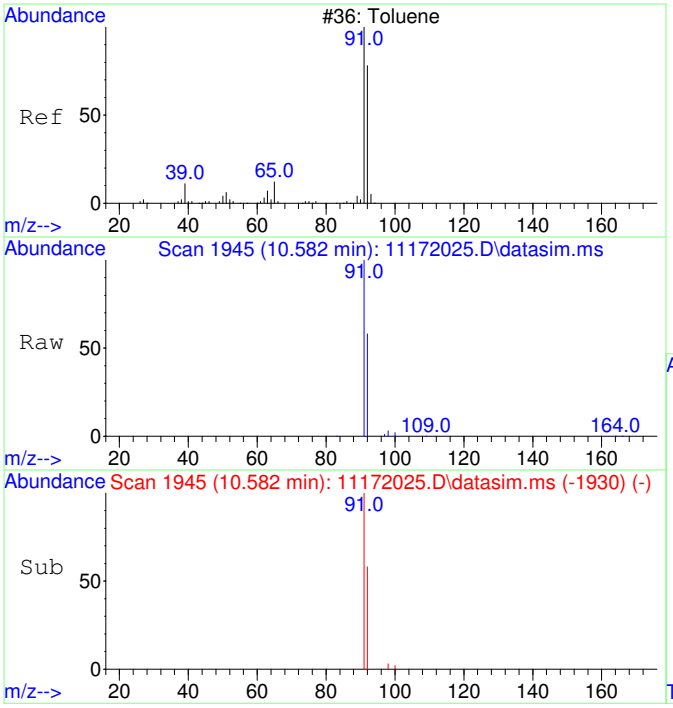


#12
Toluene-d8
Concen: 4336.85 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 98 Resp: 538819

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

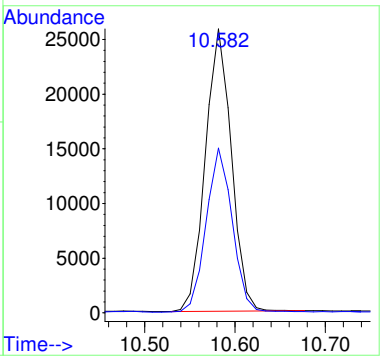


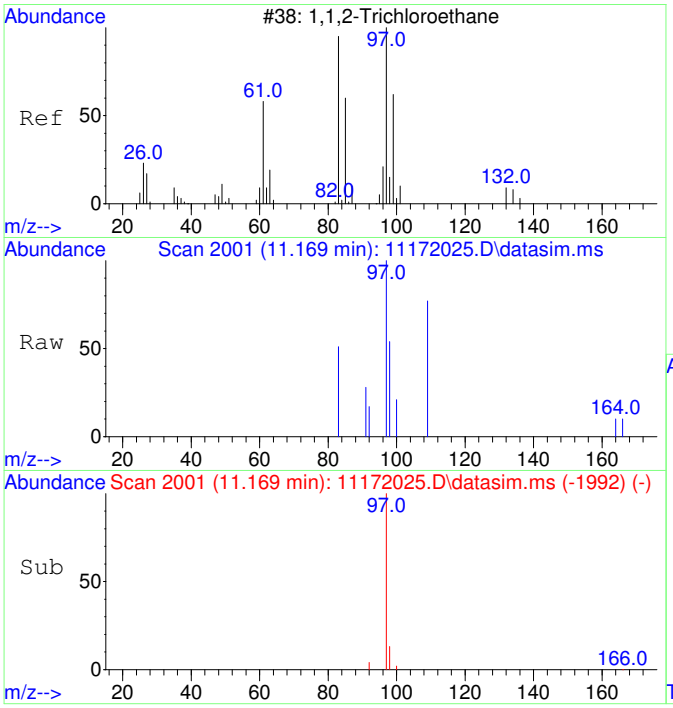


#13
Toluene
Concen: 326.43 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 51705

Ion	Ratio	Lower	Upper
91	100		
92	57.9	29.9	89.9

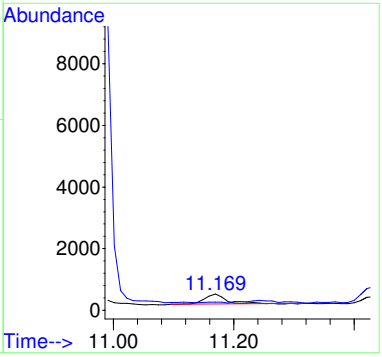


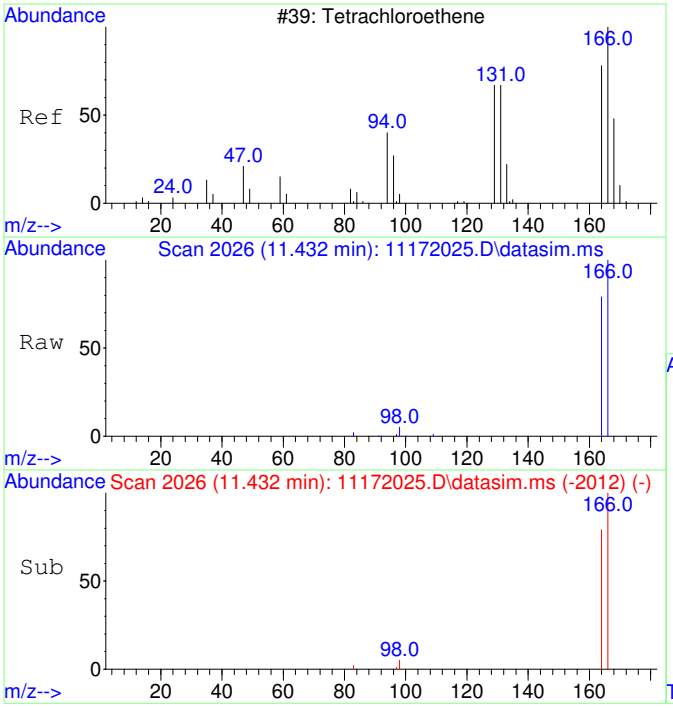


#14
1,1,2-Trichloroethane
Concen: 22.11 ug/L
RT: 11.169 min Scan# 2001
Delta R.T. -0.053 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 97 Resp: 763

Ion	Ratio	Lower	Upper
97	100		
83	8.3	51.2	111.2#

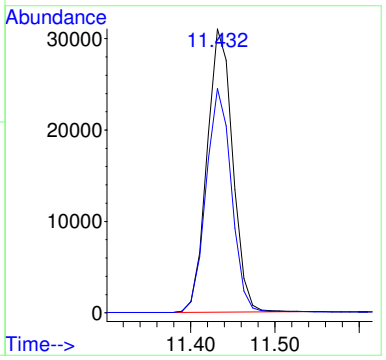


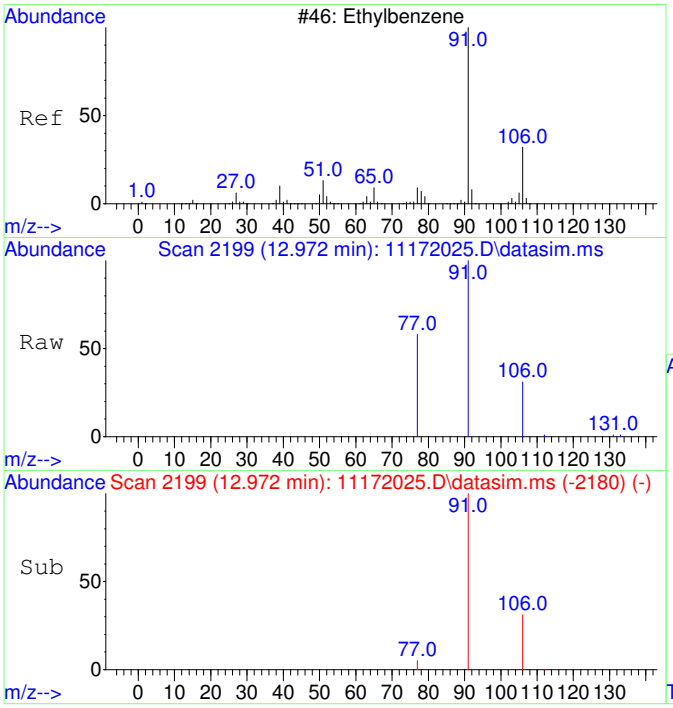


#15
Tetrachloroethene
Concen: 1428.56 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:166 Resp: 65485

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

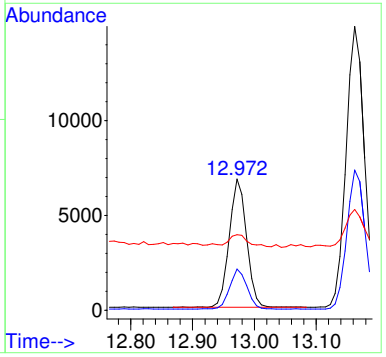


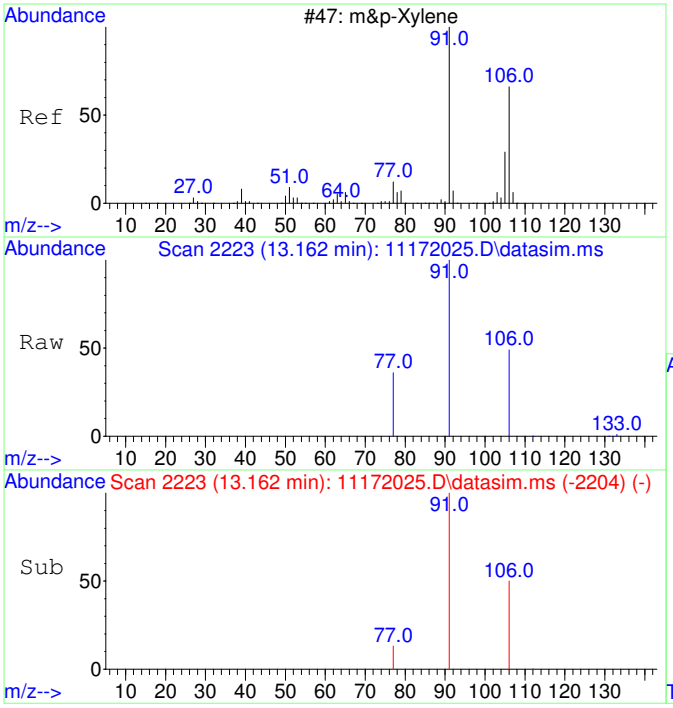


#18
Ethylbenzene
Concen: 68.64 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 13234

Ion	Ratio	Lower	Upper
91	100		
106	31.0	3.0	63.0
77	9.4	0.0	38.2

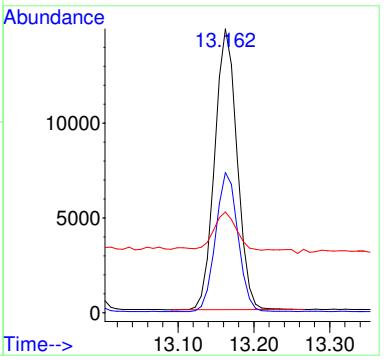


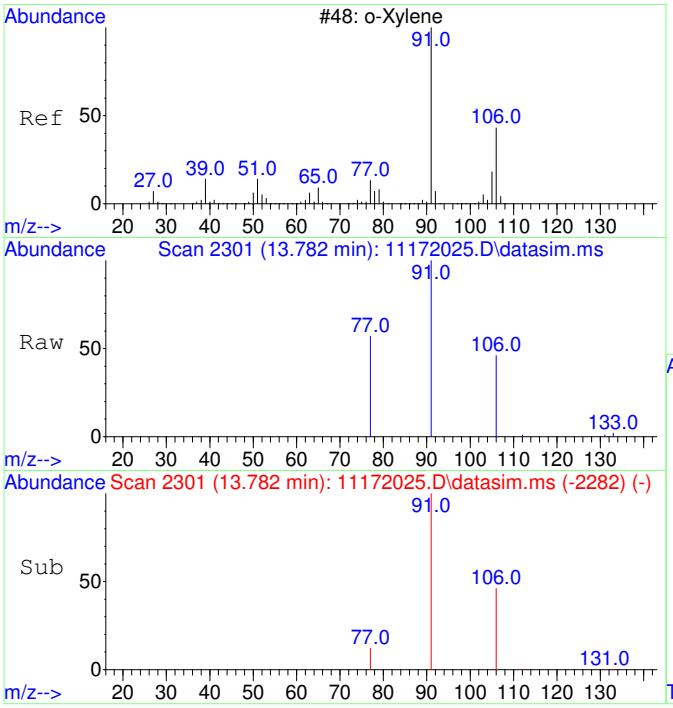


#19
m&p-Xylene
Concen: 201.03 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 30292

Ion	Ratio	Lower	Upper
91	100		
106	49.5	22.2	82.2
77	14.4	0.0	42.4

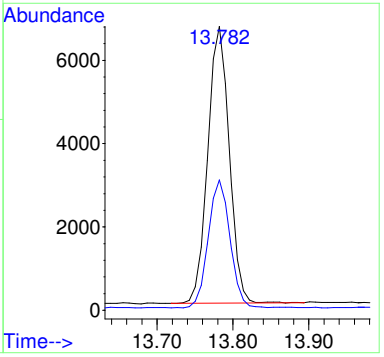


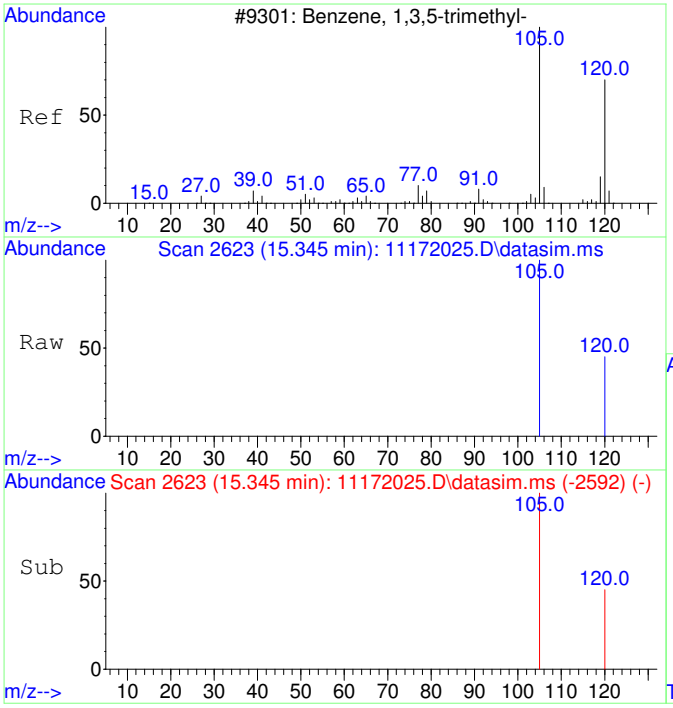


#20
o-Xylene
Concen: 81.00 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 13040

Ion	Ratio	Lower	Upper
91	100		
106	46.5	19.2	79.2

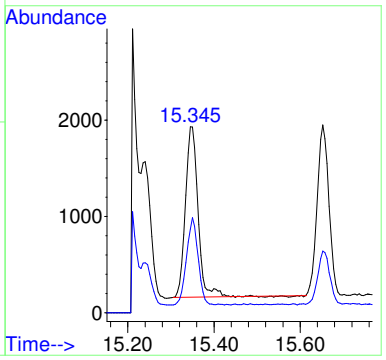


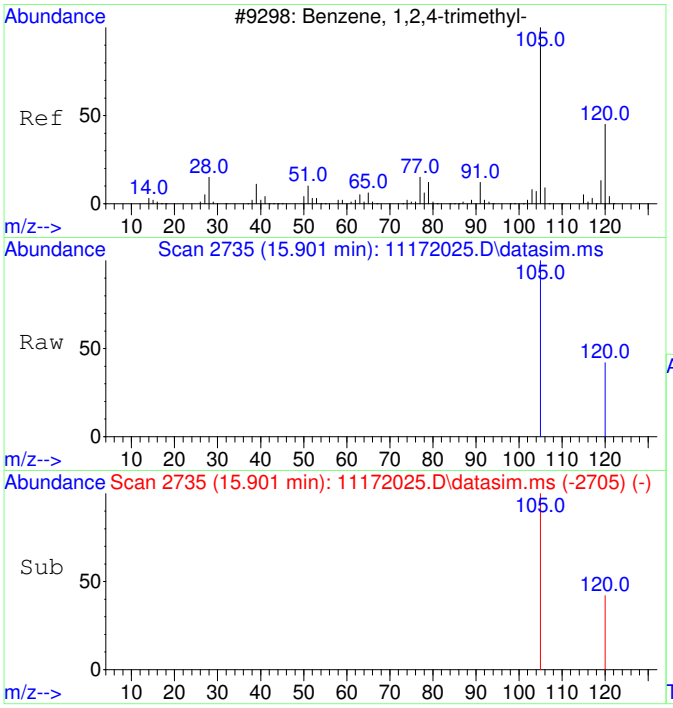


#22
1,3,5-Trimethylbenzene
Concen: 20.83 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:105 Resp: 3570

Ion	Ratio	Lower	Upper
105	100		
120	47.8	21.1	81.1

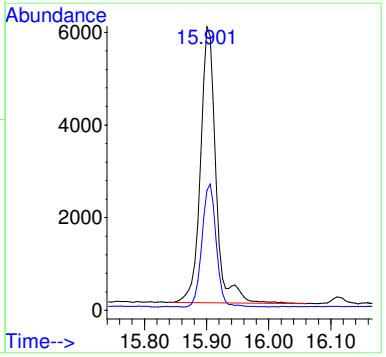


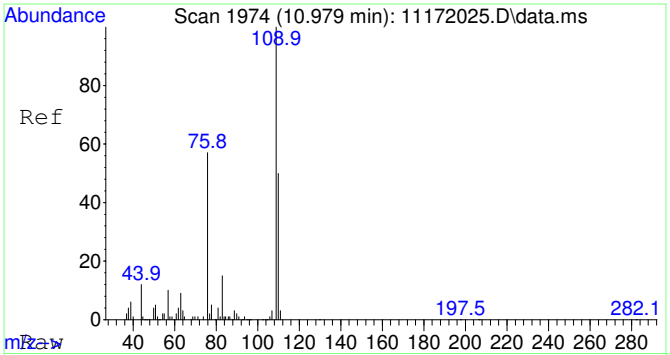


#23
1,2,4-Trimethylbenzene
Concen: 57.70 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:105 Resp: 10269

Ion	Ratio	Lower	Upper
105	100		
120	41.1	17.2	77.2

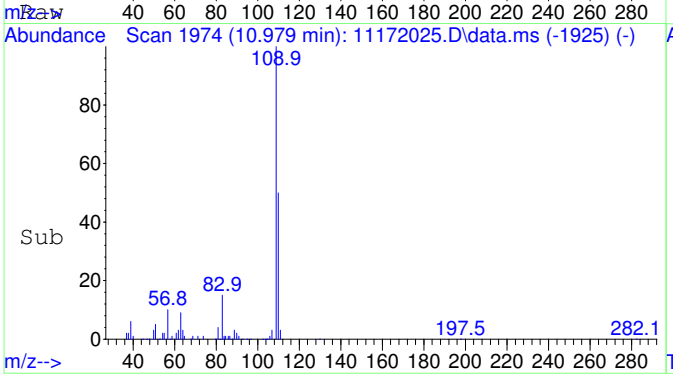


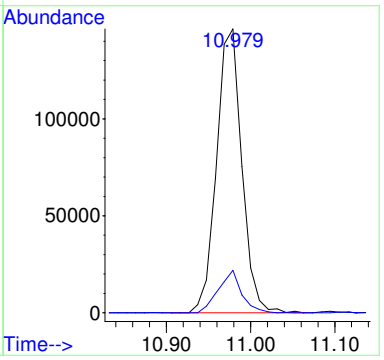


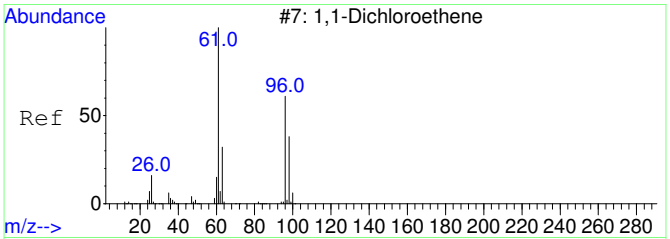
#25
2-Fluorotoluene SCAN
Concen: 4937.46 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:109 Resp: 305470

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	43.8



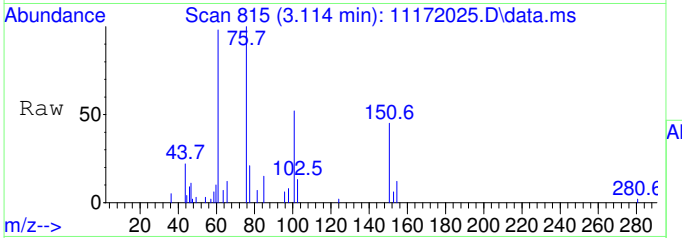


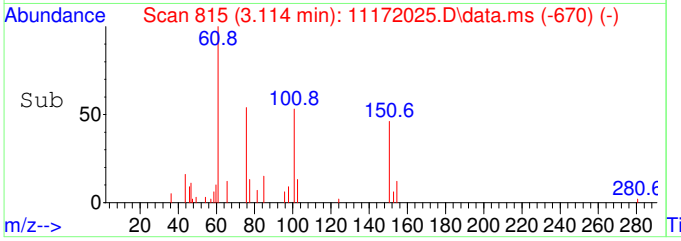


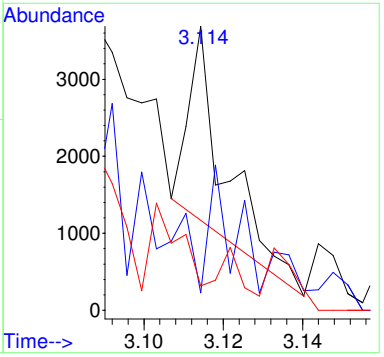
#26
1,1-Dichloroethene SCAN
Concen: 105.72 ug/L
RT: 3.114 min Scan# 815
Delta R.T. 0.037 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

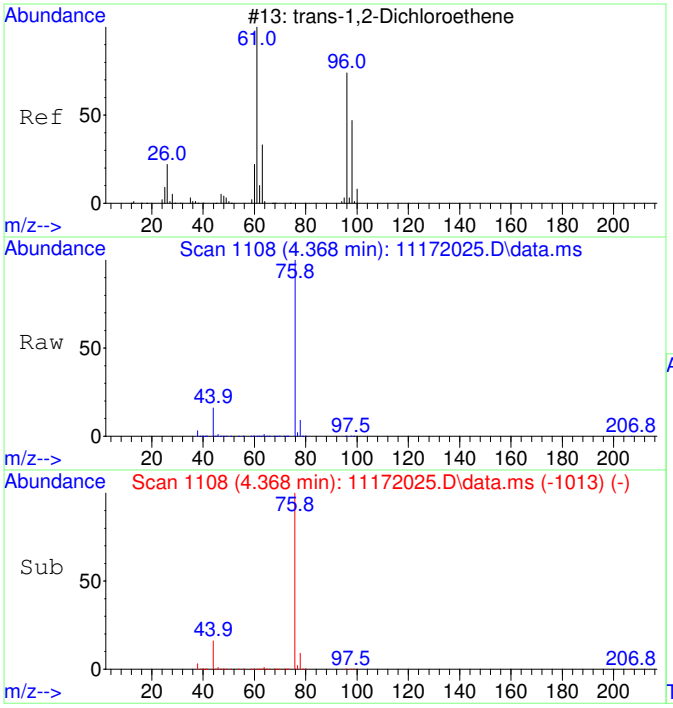
Tgt Ion: 61 Resp: 1389

Ion	Ratio	Lower	Upper
61	100		
96	89.4	33.1	93.1
98	37.6	11.2	71.2





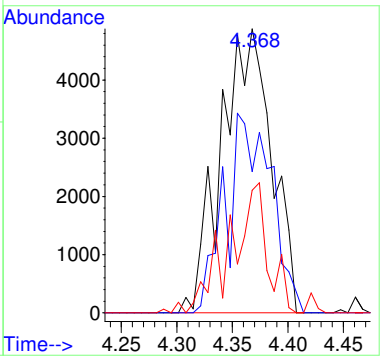


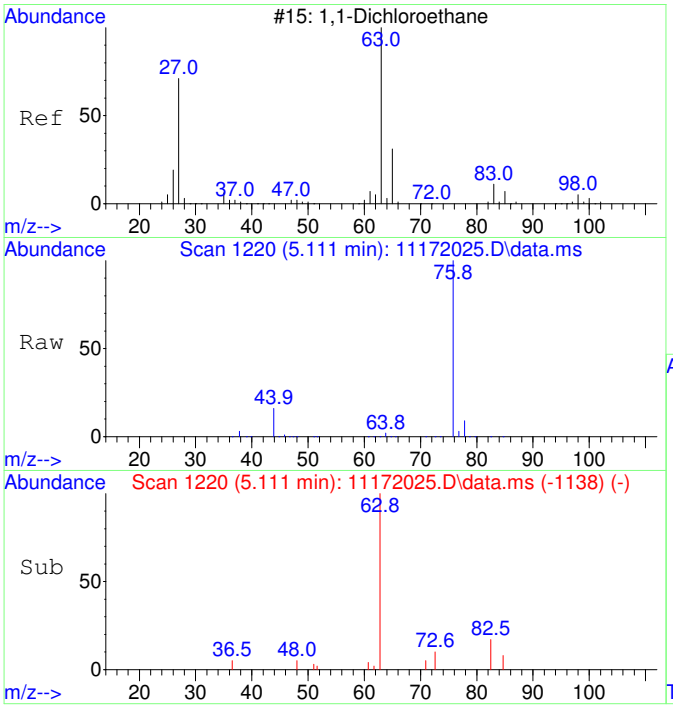


#27
trans-1,2-Dichloroethene SCAN
Concen: 952.55 ug/L
RT: 4.368 min Scan# 1108
Delta R.T. 0.020 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 61 Resp: 15487

Ion	Ratio	Lower	Upper
61	100		
96	63.0	49.0	109.0
98	23.4	20.5	80.5

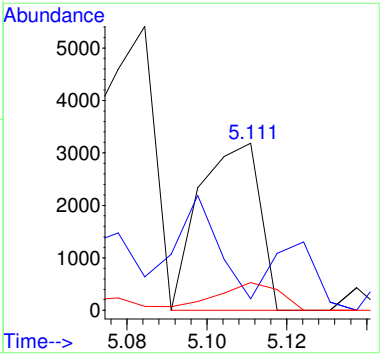


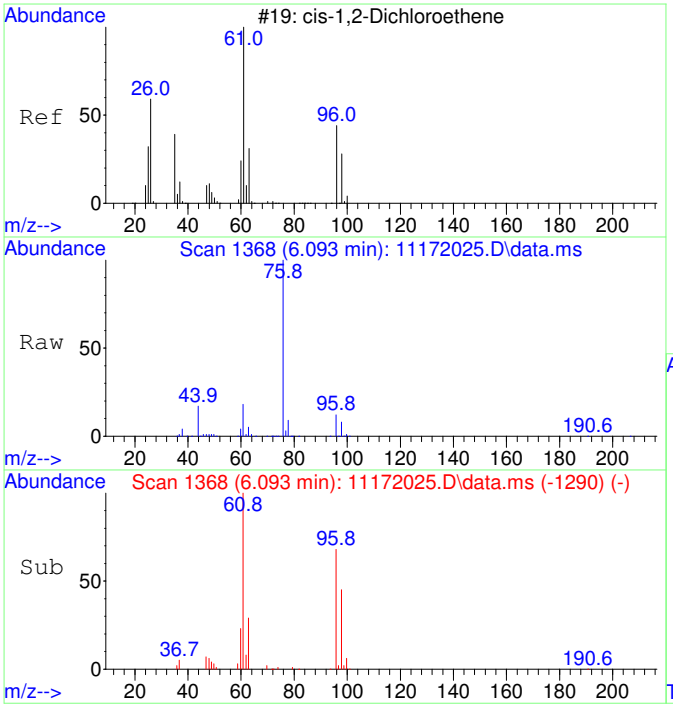


#28
1,1-Dichloroethane SCAN
Concen: 178.89 ug/L
RT: 5.111 min Scan# 1220
Delta R.T. 0.046 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 63 Resp: 3366

Ion	Ratio	Lower	Upper
63	100		
65	32.4	1.3	61.3
83	14.8	0.0	45.9

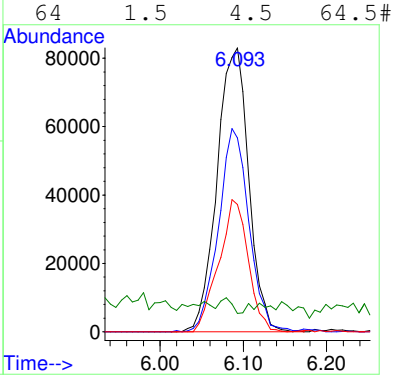


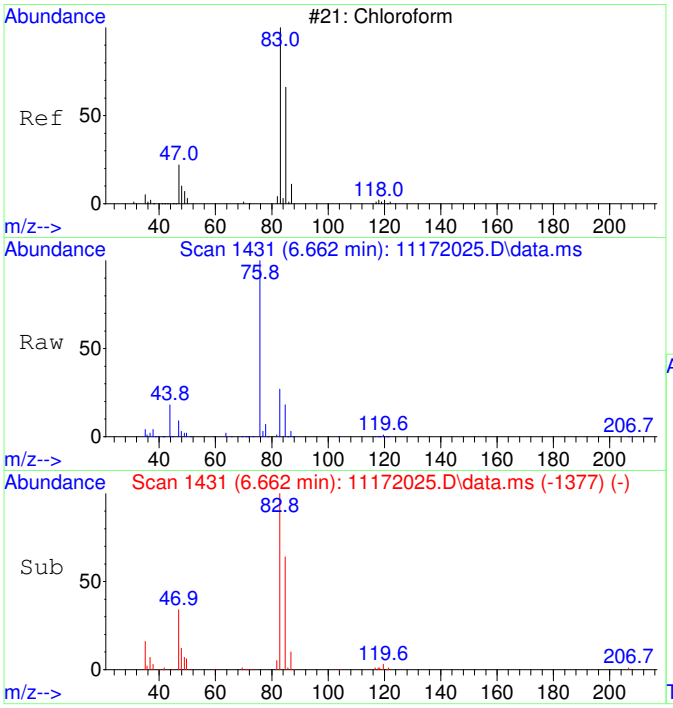


#29
cis-1,2-Dichloroethene SCAN
Concen: 10905.61 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 61 Resp: 219853

Ion	Ratio	Lower	Upper
61	100		
96	68.3	39.9	99.9
98	43.2	13.5	73.5
64	1.5	4.5	64.5#

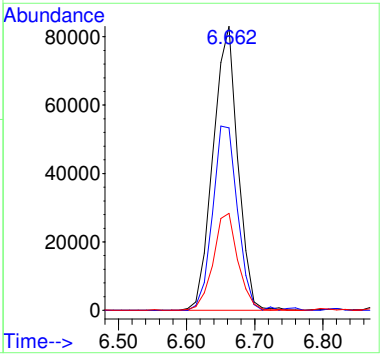


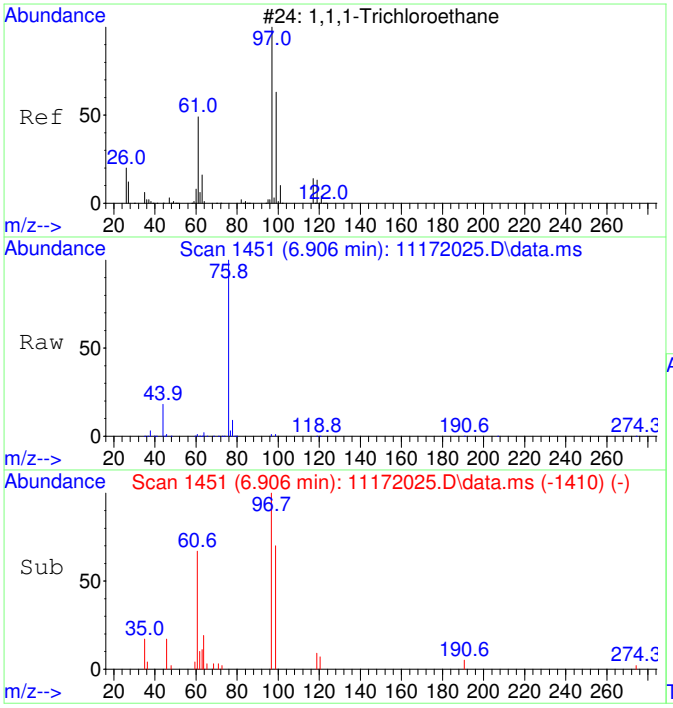


#30
Chloroform SCAN
Concen: 9577.55 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 83 Resp: 209422

Ion	Ratio	Lower	Upper
83	100		
85	65.8	34.6	94.6
47	34.4	0.0	53.4

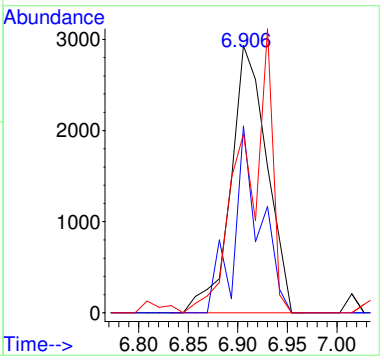


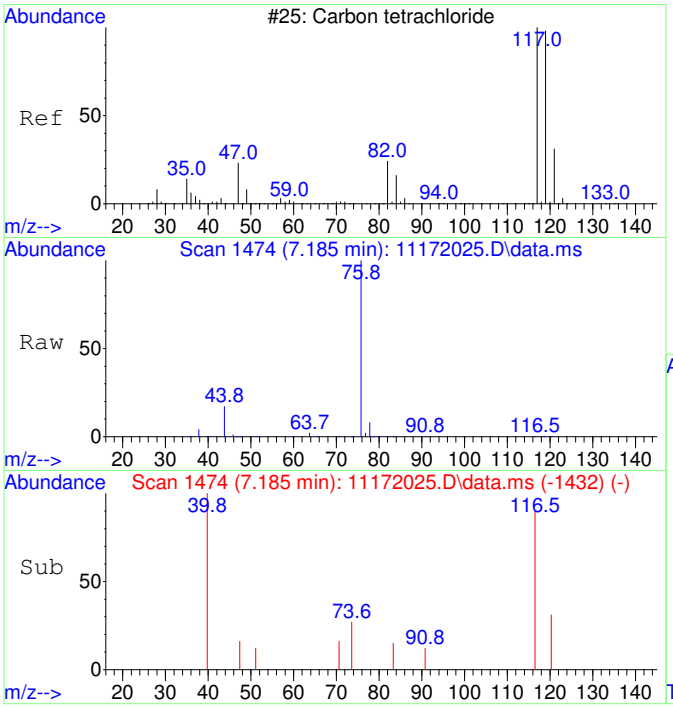


#31
1,1,1-Trichloroethane SCAN
Concen: 372.13 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 97 Resp: 7415

Ion	Ratio	Lower	Upper
97	100		
99	51.3	43.6	103.6
61	0.0	18.0	78.0#

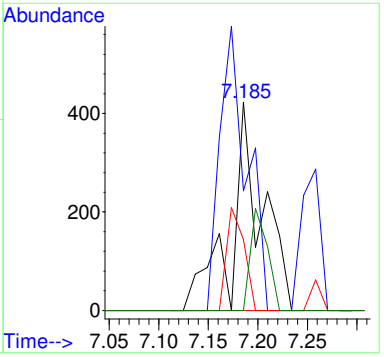


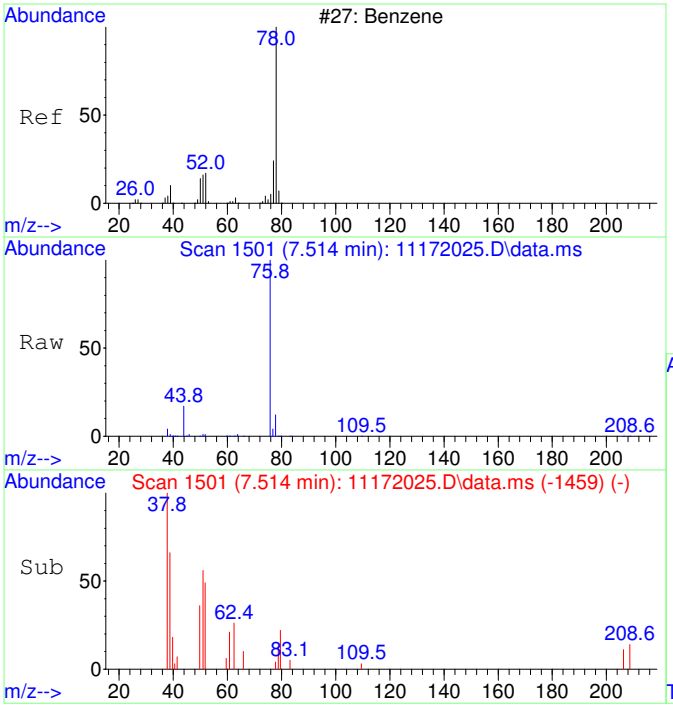


#32
Carbon tetrachloride SCAN
Concen: 44.26 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:117 Resp: 920

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	26.7	0.0	59.2

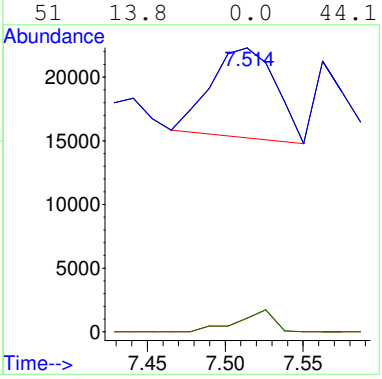


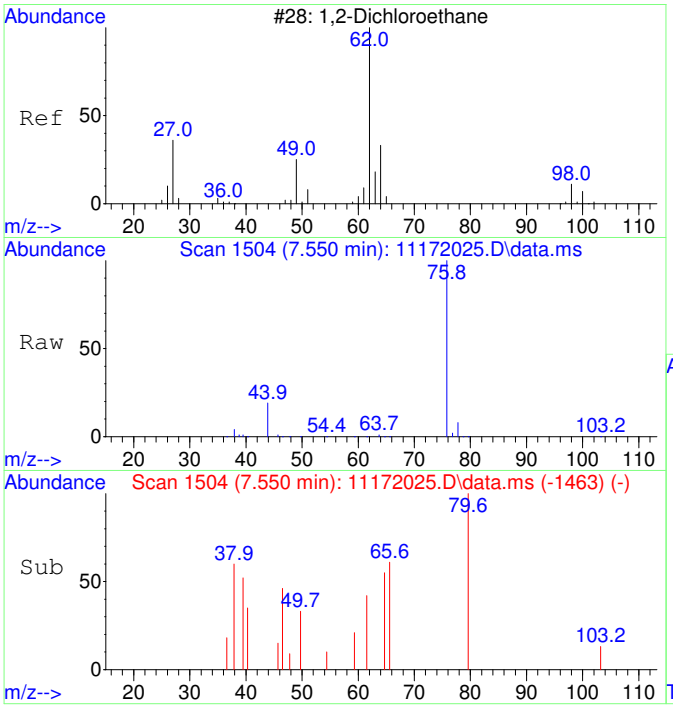


#33
Benzene SCAN
Concen: 365.78 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 78 Resp: 20068

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	13.8	0.0	47.9
51	13.8	0.0	44.1

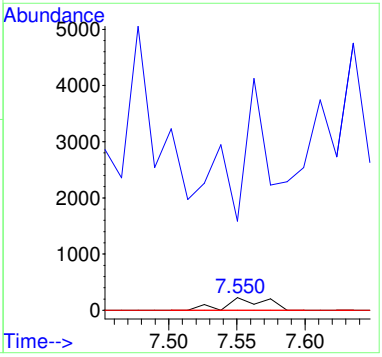


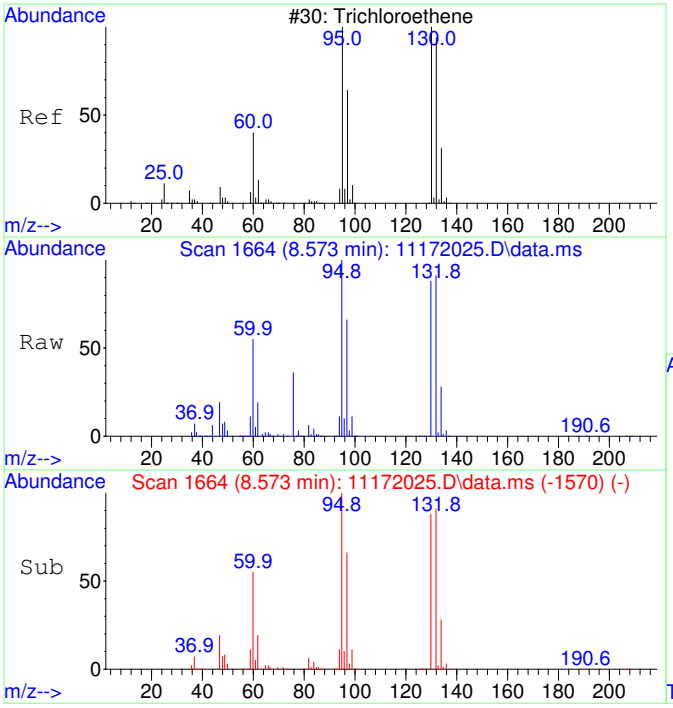


#34
1,2-Dichloroethane SCAN
Concen: 23.25 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 62 Resp: 471

Ion	Ratio	Lower	Upper
62	100		
64	334.4	5.2	65.2#
49	0.0	3.9	63.9#

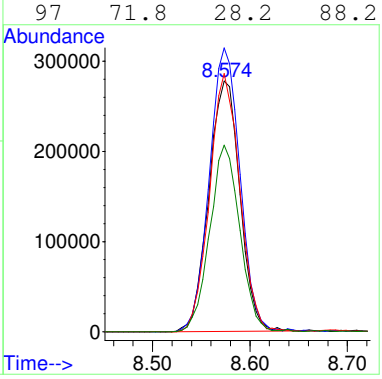


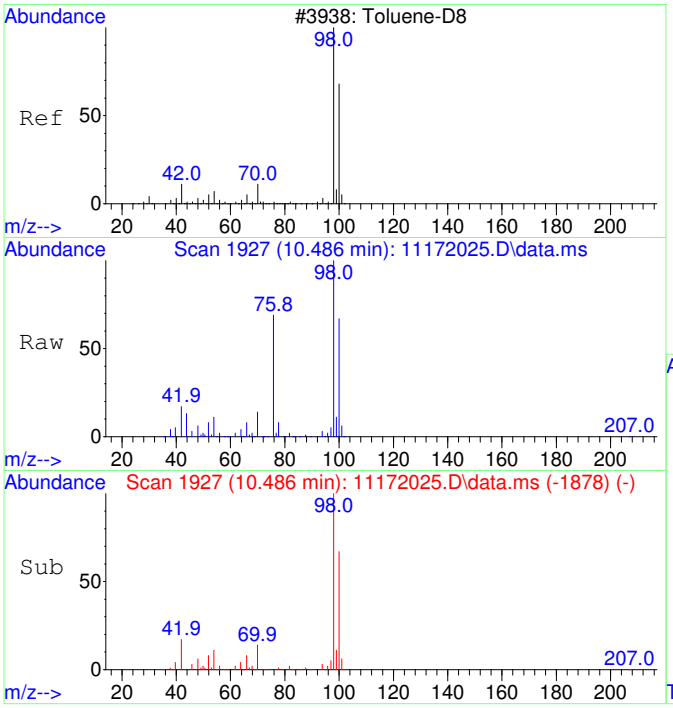


#35
Trichloroethene SCAN
Concen: 40910.89 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:130 Resp: 616810

Ion	Ratio	Lower	Upper
130	100		
95	110.8	60.5	120.5
132	99.8	59.6	119.6
97	71.8	28.2	88.2

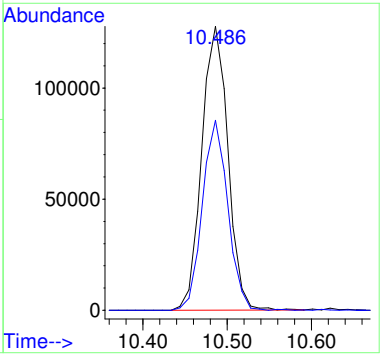


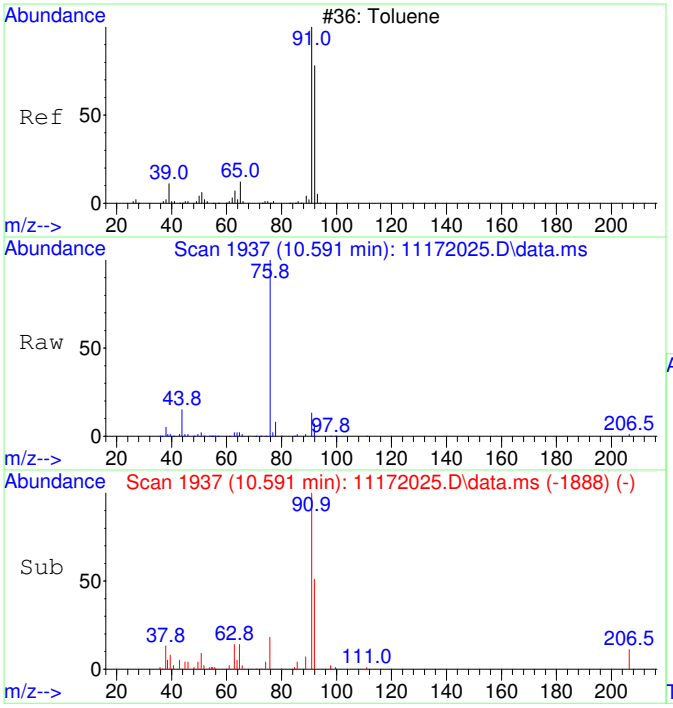


#36
Toluene-d8 SCAN
Concen: 4564.34 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 98 Resp: 276165

Ion	Ratio	Lower	Upper
98	100		
100	65.0	40.0	100.0

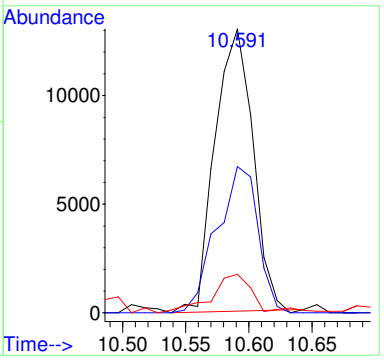


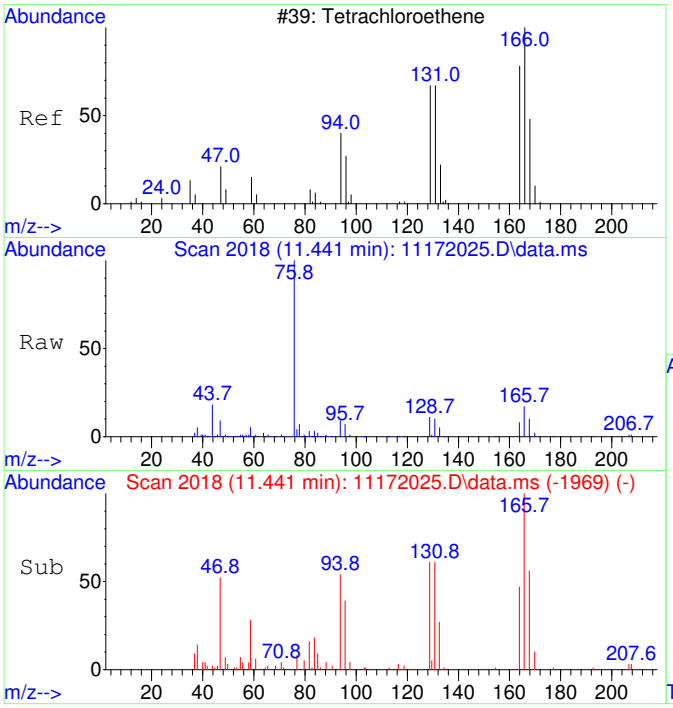


#37
Toluene SCAN
Concen: 350.26 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 27140

Ion	Ratio	Lower	Upper
91	100		
92	56.1	28.3	88.3
65	14.4	0.0	41.0

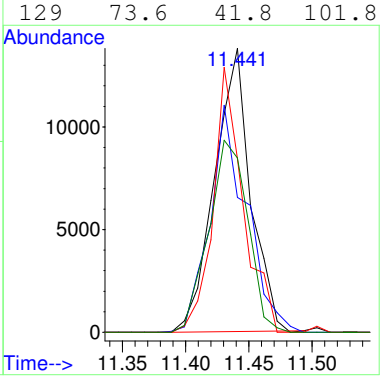


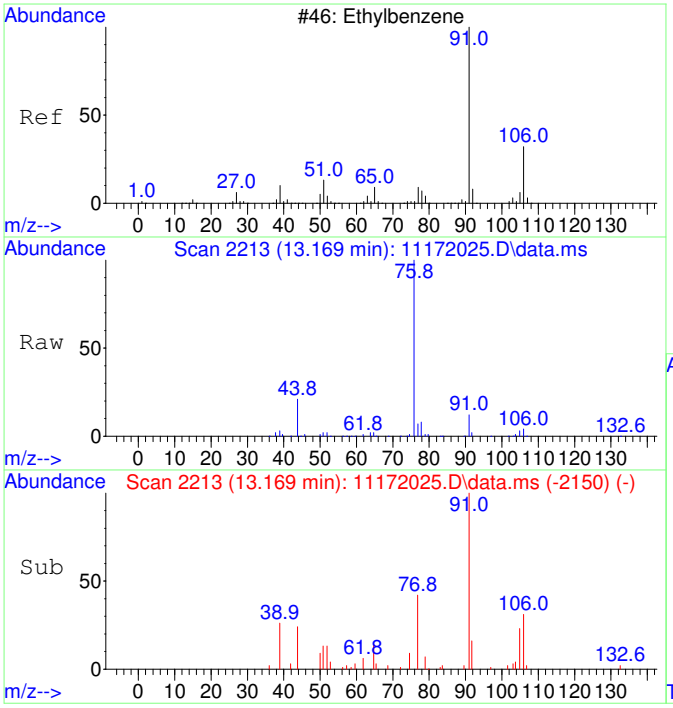


#39
Tetrachloroethene SCAN
Concen: 1471.13 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:166 Resp: 27386

Ion	Ratio	Lower	Upper
166	100		
164	81.4	50.9	110.9
131	77.6	38.7	98.7
129	73.6	41.8	101.8

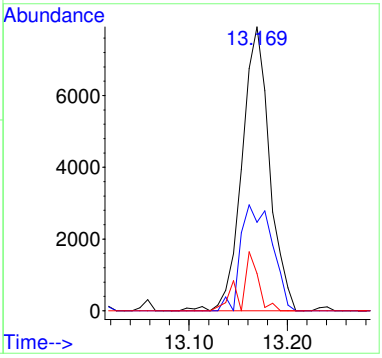


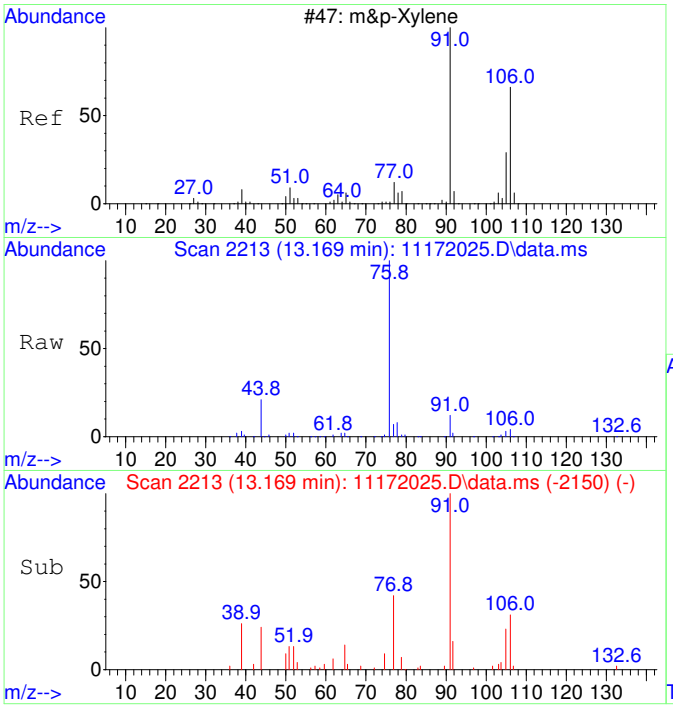


#42
Ethylbenzene SCAN
Concen: 109.06 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 15395

Ion	Ratio	Lower	Upper
91	100		
106	42.9	23.1	83.1
51	12.9	0.0	40.1

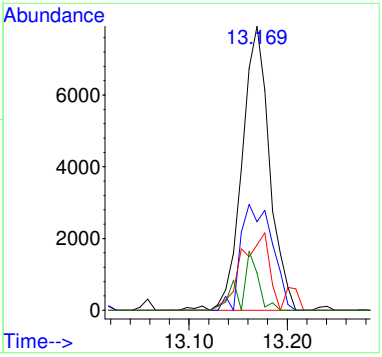


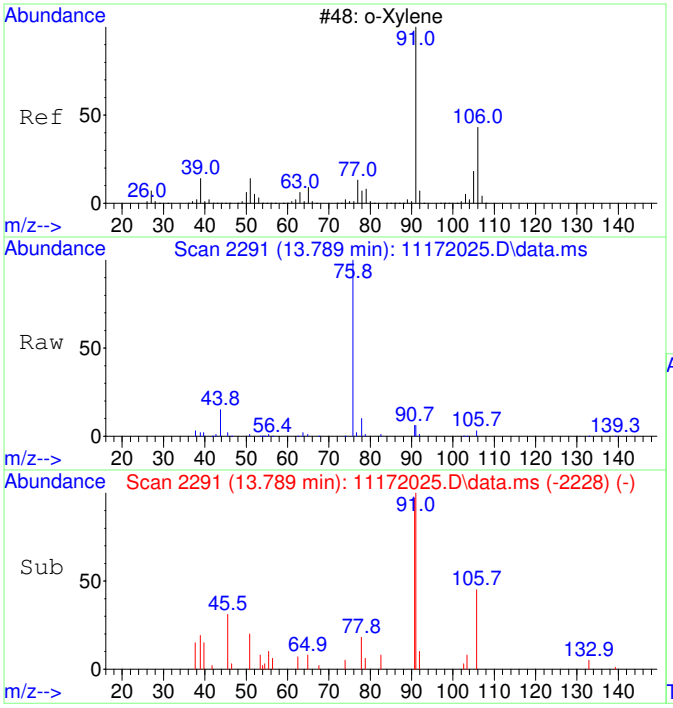


#43
m&p-Xylene SCAN
Concen: 109.06 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 15395

Ion	Ratio	Lower	Upper
91	100		
106	42.9	23.1	83.1
105	27.3	0.0	54.7
51	12.9	0.0	40.1

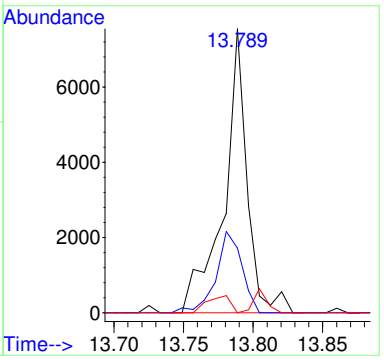


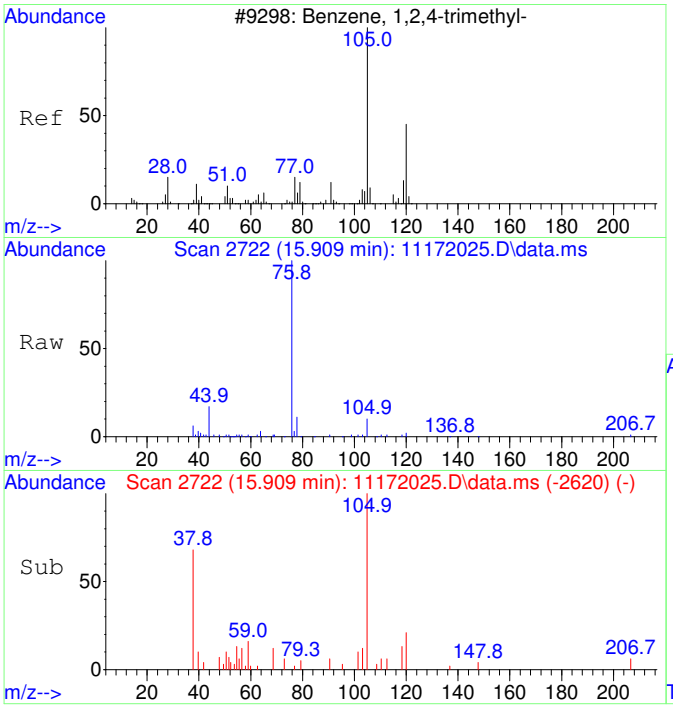


#44
o-Xylene SCAN
Concen: 116.20 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion: 91 Resp: 8780

Ion	Ratio	Lower	Upper
91	100		
106	31.7	18.0	78.0
105	6.0	0.0	56.6

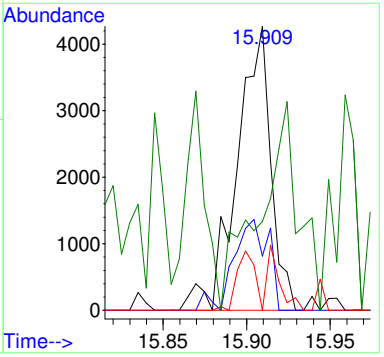




#47
1,2,4-Trimethylbenzene SCAN
Concen: 74.11 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.005 min
Lab File: 11172025.D
Acq: 17 Nov 2020 17:22

Tgt Ion:105 Resp: 6039

Ion	Ratio	Lower	Upper
105	100		
120	32.6	16.9	76.9
119	8.4	0.0	41.9
77	0.0	0.0	42.3



2011017-15

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172026.D
Acq On : 17 Nov 2020 17:46
InstName : AG5975C
Operator : TD
Sample : 2011017-15
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 18 06:16:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

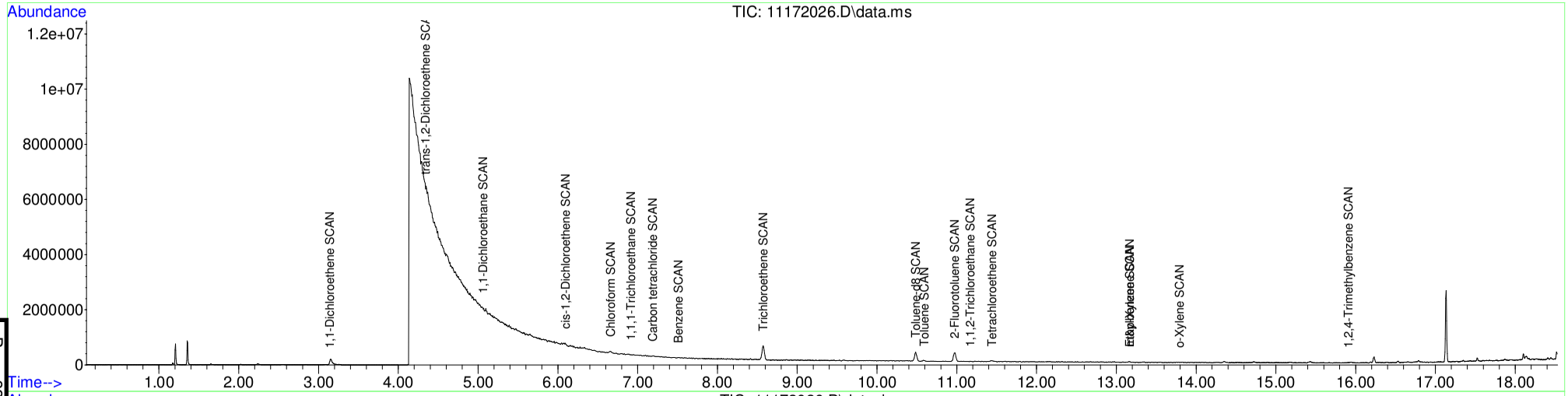
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	564401	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	486032	4398.97 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.98%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	5221	231.66 ug/L	89
3] trans-1,2-Dichloroethene	4.376	61	6363	244.36 ug/L	91
4] 1,1-Dichloroethane	5.086	63	6029	186.00 ug/L	79
5] cis-1,2-Dichloroethene	6.088	61	117516	3434.65 ug/L	99
6] Chloroform	6.652	83	79720	2276.40 ug/L	99
7] 1,1,1-Trichloroethane	6.919	97	4145	108.99 ug/L	99
8] Carbon tetrachloride	7.187	117	3870	108.11 ug/L	99
9] Benzene	7.503	78	21760	226.92 ug/L	77
10] 1,2-Dichloroethane	7.552	62	847	24.74 ug/L #	42
11] Trichloroethene	8.575	130	368245	12754.09 ug/L	94
13] Toluene	10.582	91	38321	272.05 ug/L	99
15] Tetrachloroethene	11.432	166	16649	408.41 ug/L	98
18] Ethylbenzene	12.972	91	14043	81.90 ug/L	96
19] m&p-Xylene	13.162	91	25333	189.04 ug/L	96
20] o-Xylene	13.782	91	10087	70.46 ug/L	96
22] 1,3,5-Trimethylbenzene	15.350	105	3196	20.97 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	10628	67.15 ug/L	97
25) 2-Fluorotoluene SCAN	10.969	109	281295	5112.72 ug/L	100
26) 1,1-Dichloroethene SCAN	3.137	61	635	54.35 ug/L	70
27) trans-1,2-Dichloroethe...	4.341	61	528	36.52 ug/L #	45
28) 1,1-Dichloroethane SCAN	5.058	63	695	41.53 ug/L	61
29) cis-1,2-Dichloroethene...	6.093	61	64198	3580.91 ug/L #	83
30) Chloroform SCAN	6.662	83	48065	2471.81 ug/L	94
31) 1,1,1-Trichloroethane ...	6.918	97	2212	124.83 ug/L	72
32) Carbon tetrachloride SCAN	7.186	117	1623	87.81 ug/L	86
33) Benzene SCAN	7.514	78	31010	635.58 ug/L	95
35) Trichloroethene SCAN	8.574	130	171283	12774.87 ug/L	86
36) Toluene-d8 SCAN	10.486	98	226747	4214.11 ug/L	98
37) Toluene SCAN	10.591	91	25569	371.06 ug/L	92
38) 1,1,2-Trichloroethane ...	11.168	97	324	20.95 ug/L #	19
39) Tetrachloroethene SCAN	11.441	166	8614	520.33 ug/L #	38
42) Ethylbenzene SCAN	13.169	91	15045	119.84 ug/L	91
43) m&p-Xylene SCAN	13.169	91	15045	119.84 ug/L	89
44) o-Xylene SCAN	13.789	91	5230	77.83 ug/L	83
47) 1,2,4-Trimethylbenzene...	15.909	105	6752	93.18 ug/L #	84

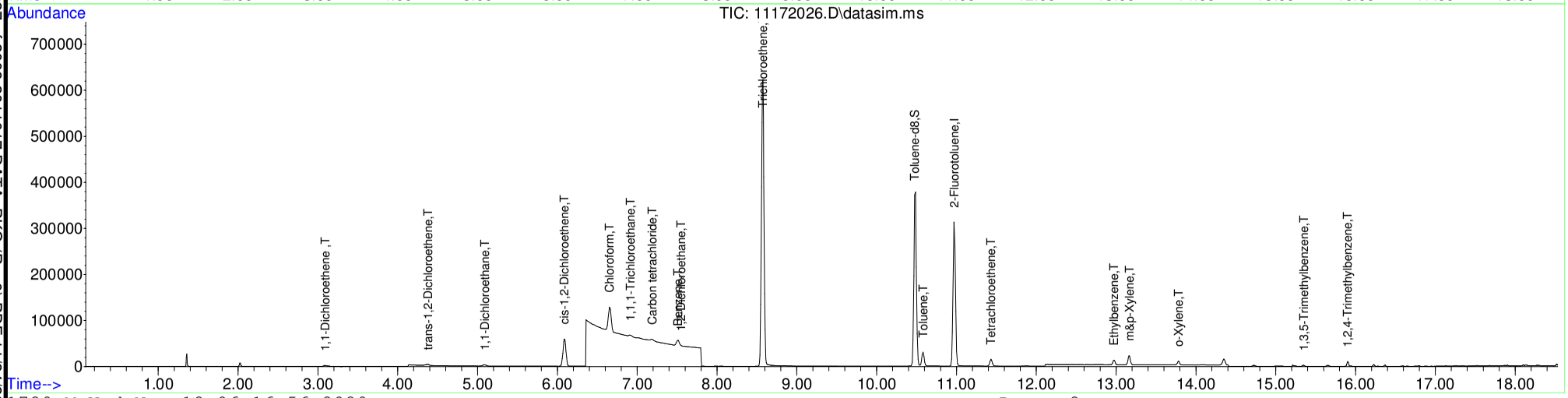
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172026.D
Acq On : 17 Nov 2020 17:46
InstName : AG5975C
Operator : TD
Sample : 2011017-15
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 18 06:16:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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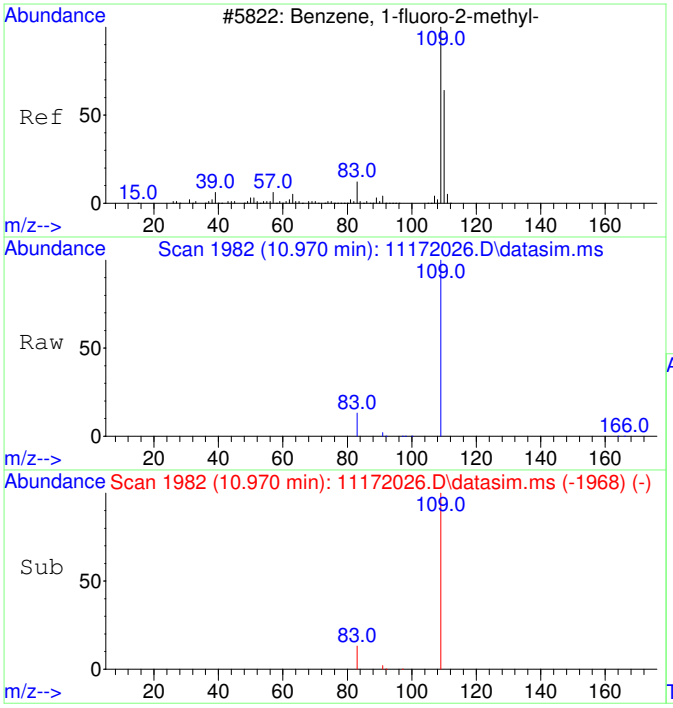
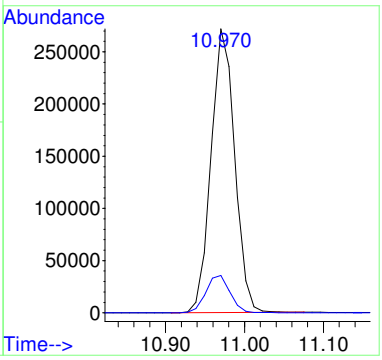
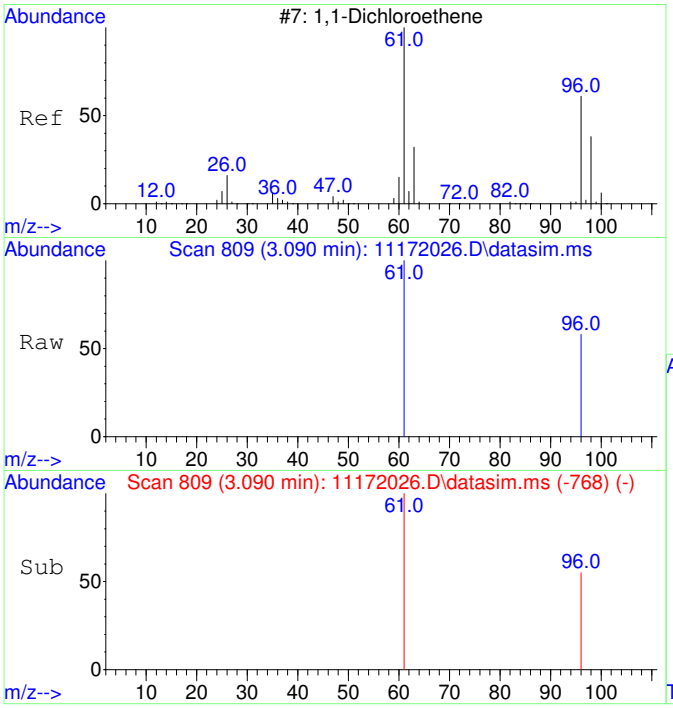


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:109 Resp: 564401

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

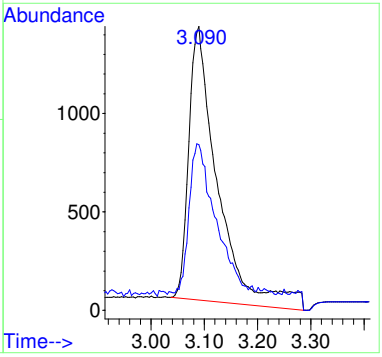




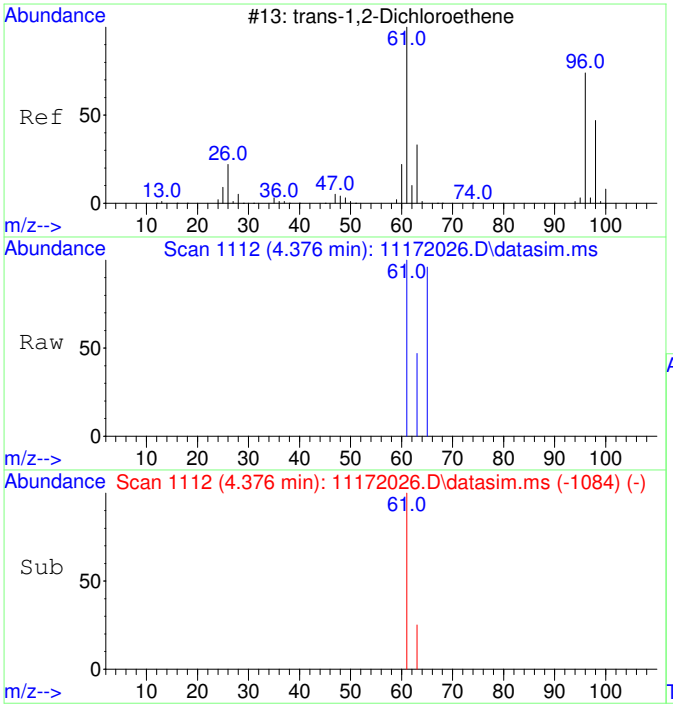
#2
1,1-Dichloroethene
Concen: 231.66 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 61 Resp: 5221

Ion	Ratio	Lower	Upper
61	100		
96	58.0	37.2	97.2



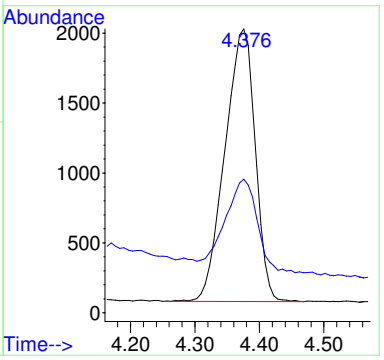
Before MI:
IMPROPER
BASELINE

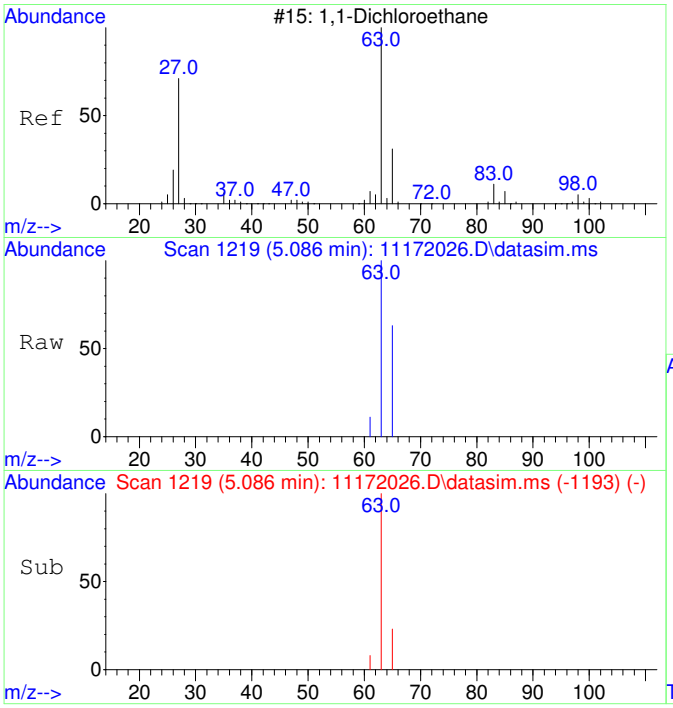


#3
trans-1,2-Dichloroethene
Concen: 244.36 ug/L
RT: 4.376 min Scan# 1112
Delta R.T. 0.033 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 61 Resp: 6363

Ion	Ratio	Lower	Upper
61	100		
63	37.7	2.4	62.4

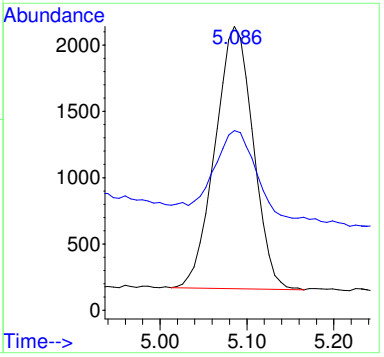


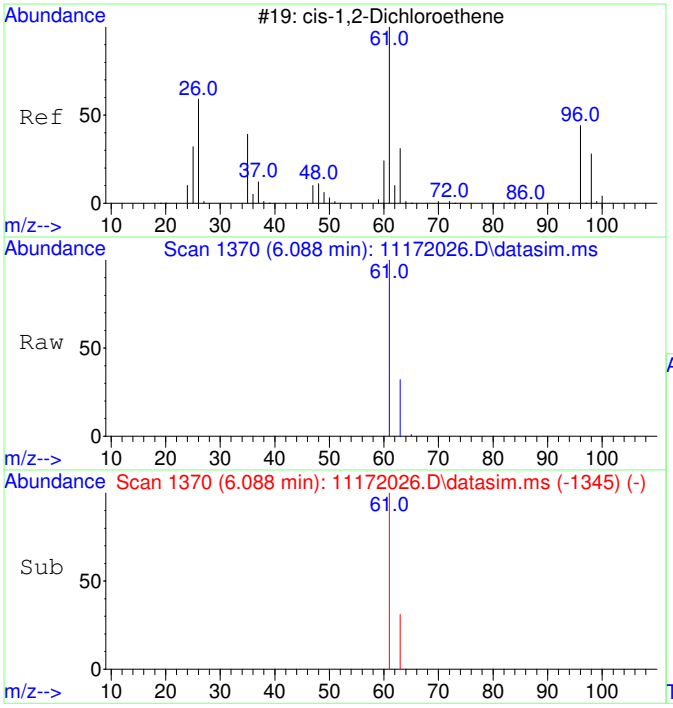


#4
1,1-Dichloroethane
Concen: 186.00 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 63 Resp: 6029

Ion	Ratio	Lower	Upper
63	100		
65	43.5	1.8	61.8

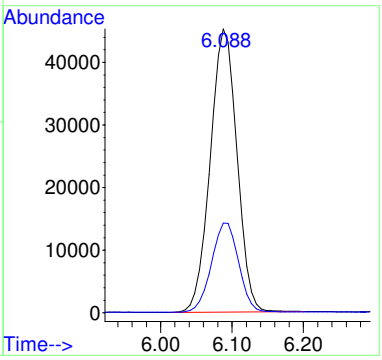


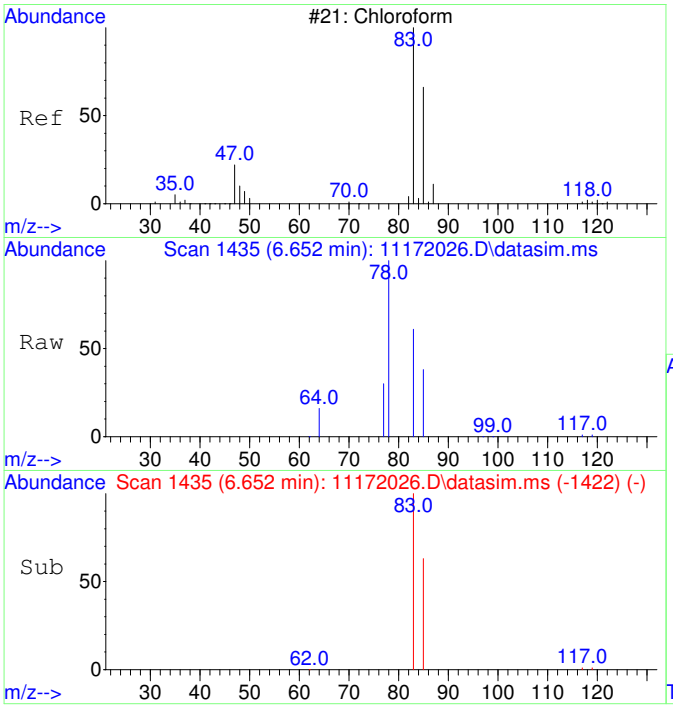


#5
cis-1,2-Dichloroethene
Concen: 3434.65 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 61 Resp: 117516

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

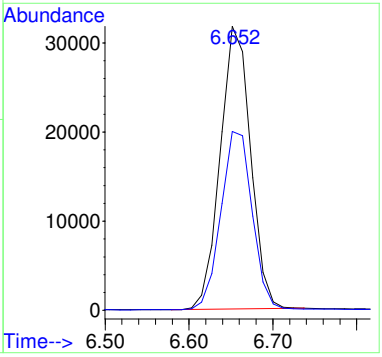


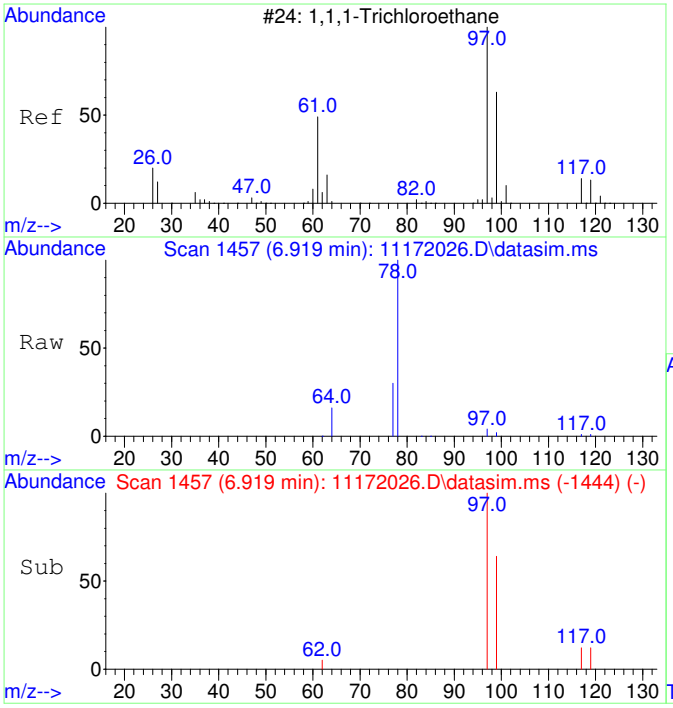


#6
Chloroform
Concen: 2276.40 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 83 Resp: 79720

Ion	Ratio	Lower	Upper
83	100		
85	64.7	35.1	95.1

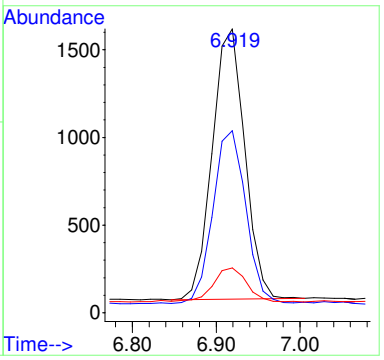


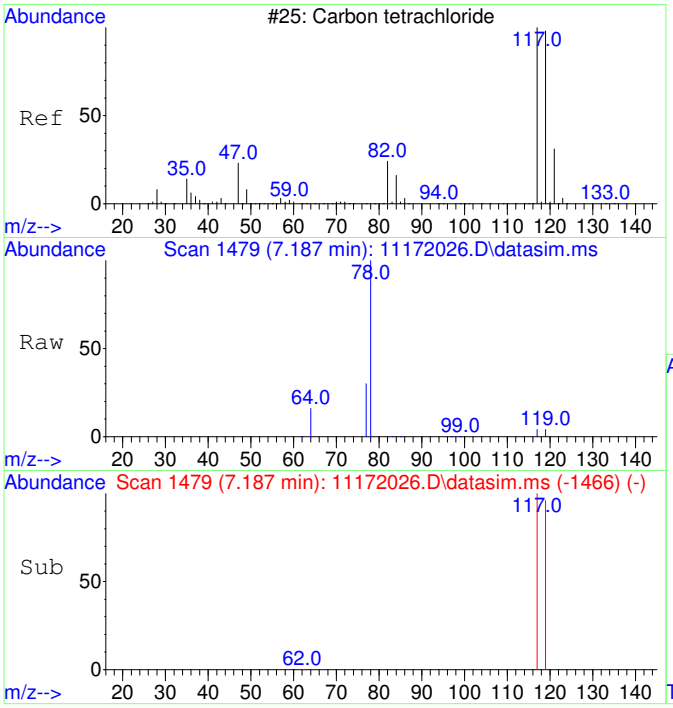


#7
1,1,1-Trichloroethane
Concen: 108.99 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 97 Resp: 4145

Ion	Ratio	Lower	Upper
97	100		
99	64.1	34.6	94.6
117	13.3	0.0	43.2

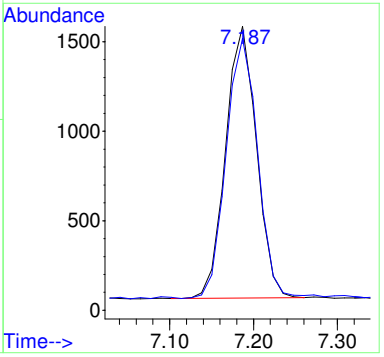


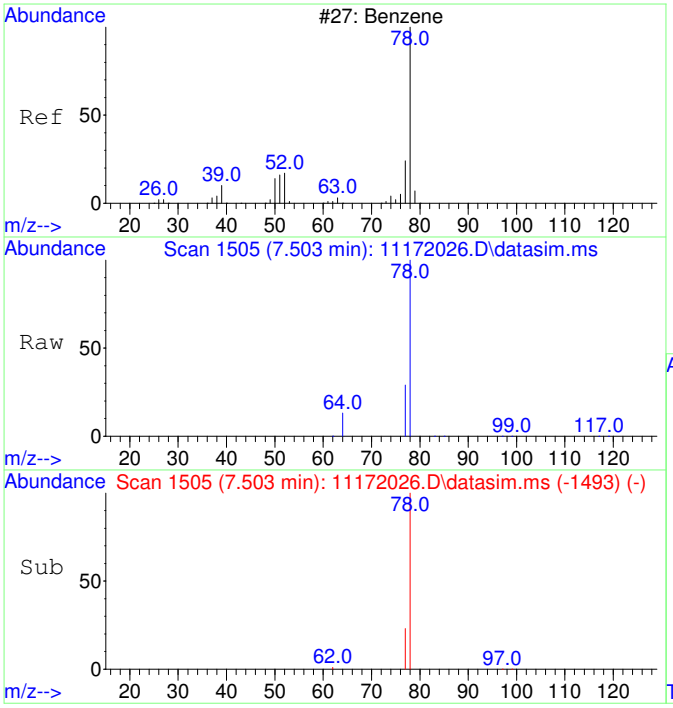


#8
Carbon tetrachloride
Concen: 108.11 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:117 Resp: 3870

Ion	Ratio	Lower	Upper
117	100		
119	97.7	66.4	126.4

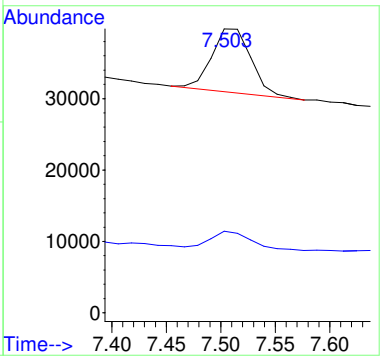


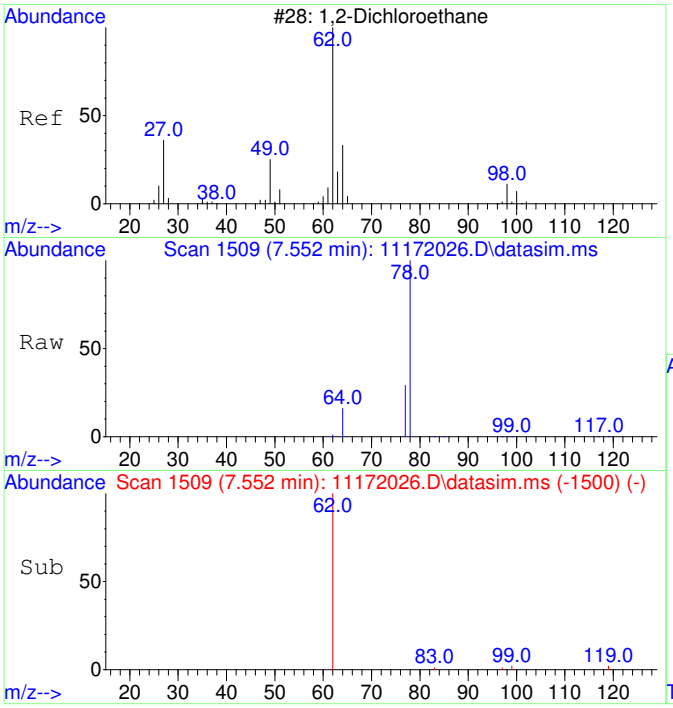


#9
Benzene
Concen: 226.92 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 78 Resp: 21760

Ion	Ratio	Lower	Upper
78	100		
77	34.2	0.0	53.2

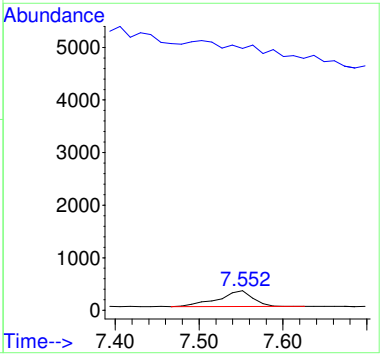


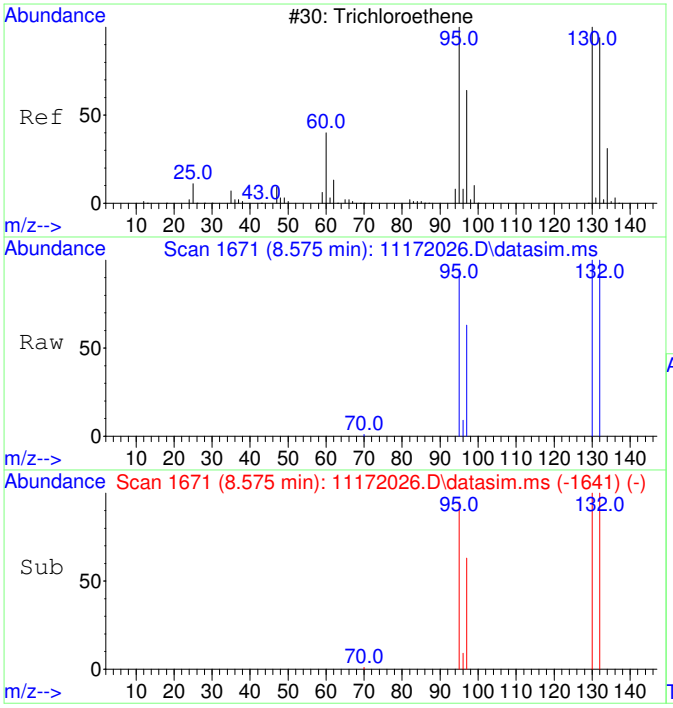


#10
1,2-Dichloroethane
Concen: 24.74 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 62 Resp: 847

Ion	Ratio	Lower	Upper
62	100		
64	0.0	2.3	62.3#

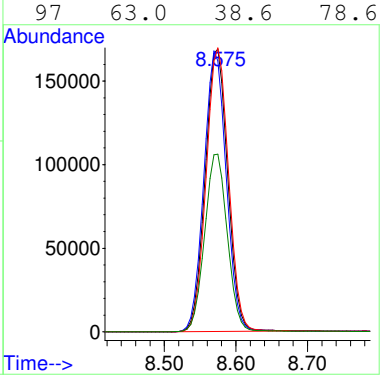


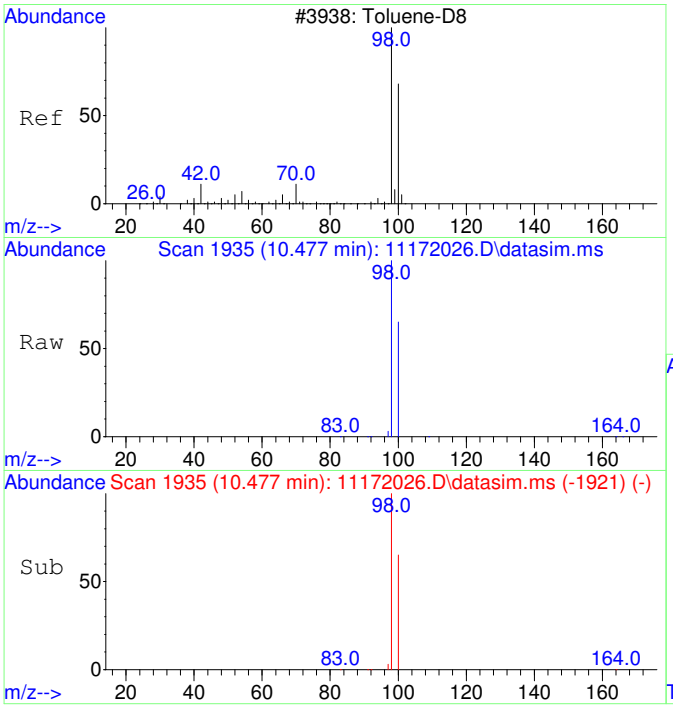


#11
Trichloroethene
Concen: 12754.09 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:130 Resp: 368245

Ion	Ratio	Lower	Upper
130	100		
95	98.4	60.7	120.7
132	99.8	76.0	116.0
97	63.0	38.6	78.6

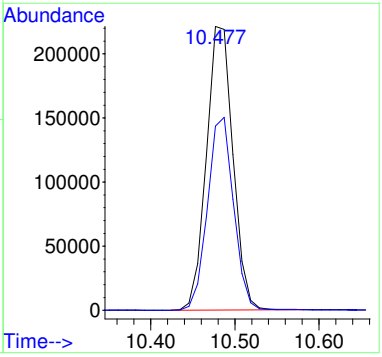


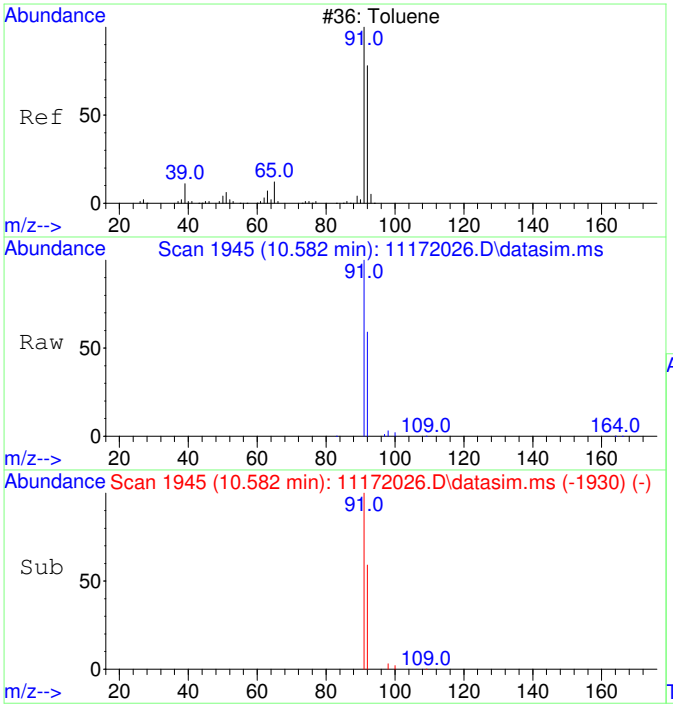


#12
Toluene-d8
Concen: 4398.97 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 98 Resp: 486032

Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1

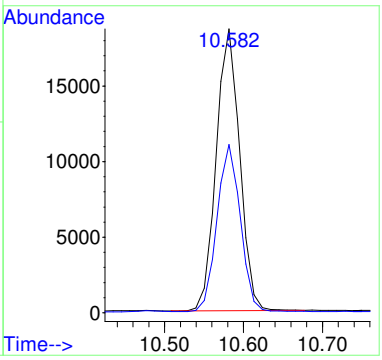


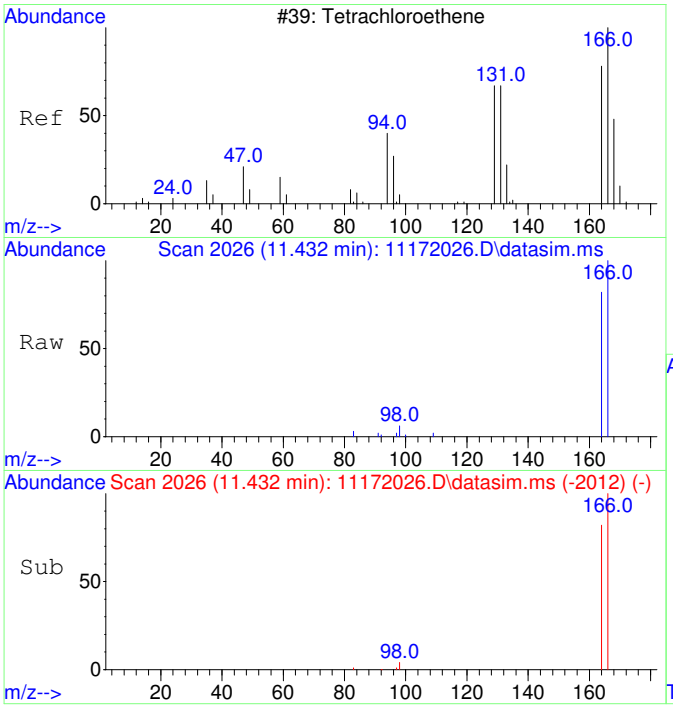


#13
Toluene
Concen: 272.05 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 38321

Ion	Ratio	Lower	Upper
91	100		
92	58.8	29.9	89.9

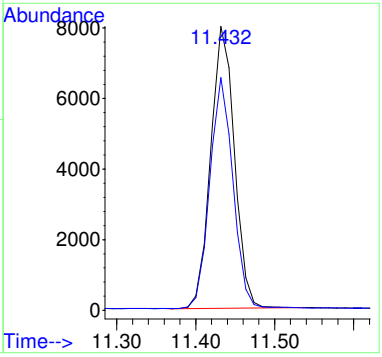


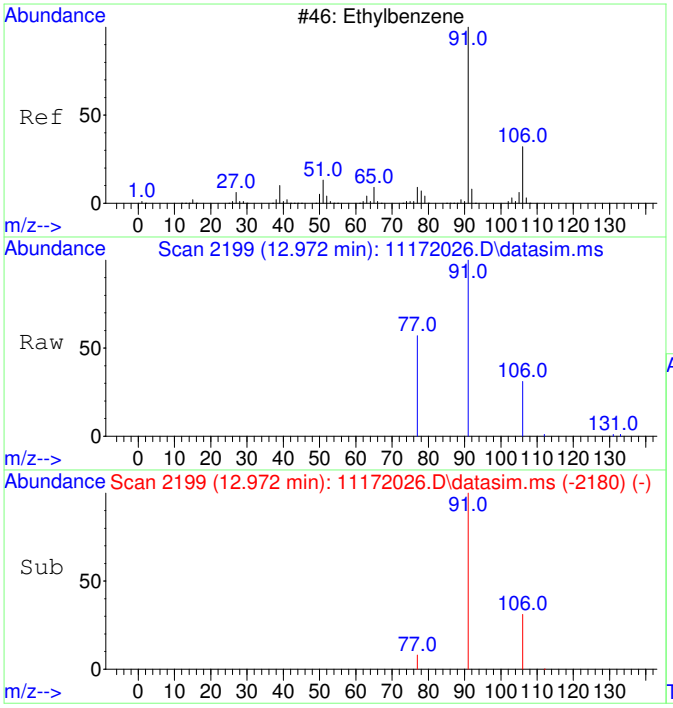


#15
Tetrachloroethene
Concen: 408.41 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:166 Resp: 16649

Ion	Ratio	Lower	Upper
166	100		
164	79.4	47.8	107.8

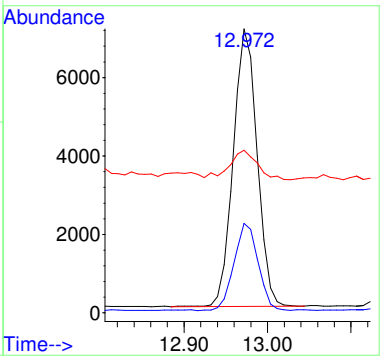


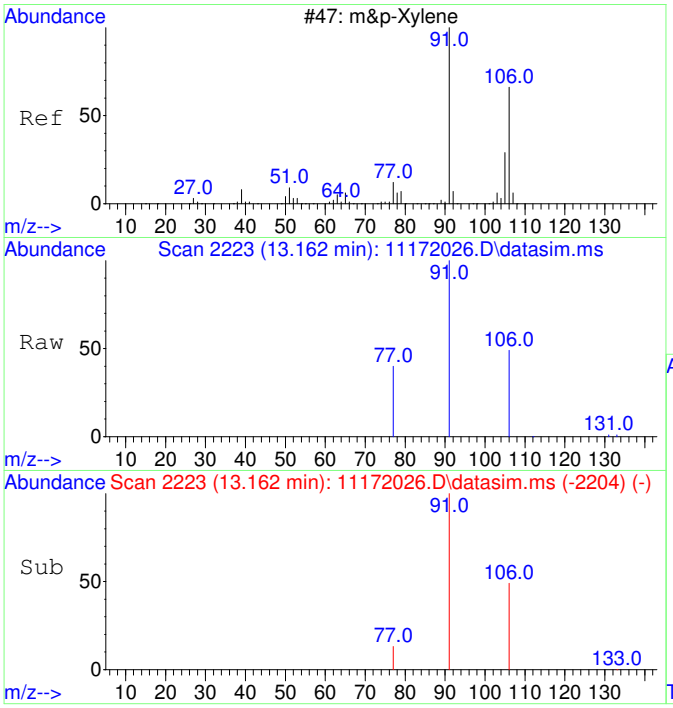


#18
Ethylbenzene
Concen: 81.90 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 14043

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	12.5	0.0	38.2

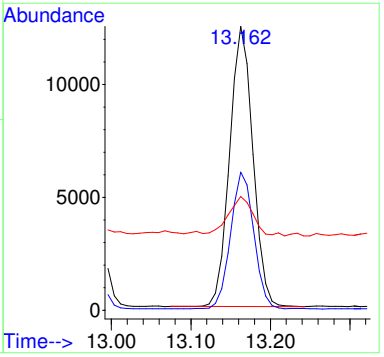


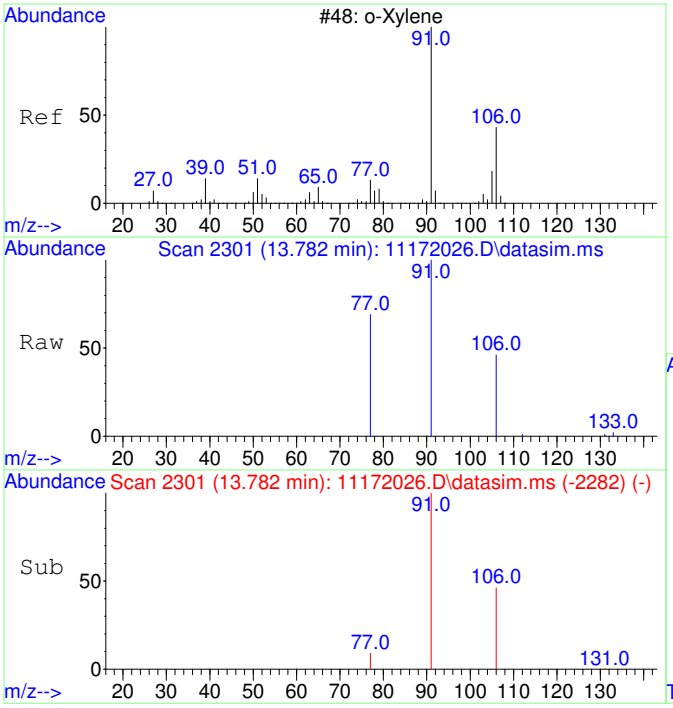


#19
m&p-Xylene
Concen: 189.04 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 25333

Ion	Ratio	Lower	Upper
91	100		
106	48.9	22.2	82.2
77	13.8	0.0	42.4

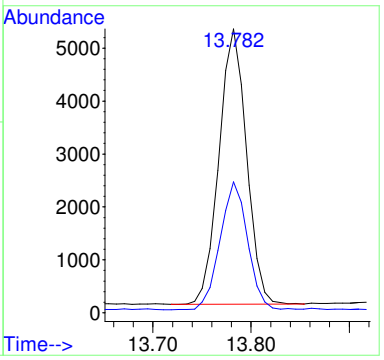


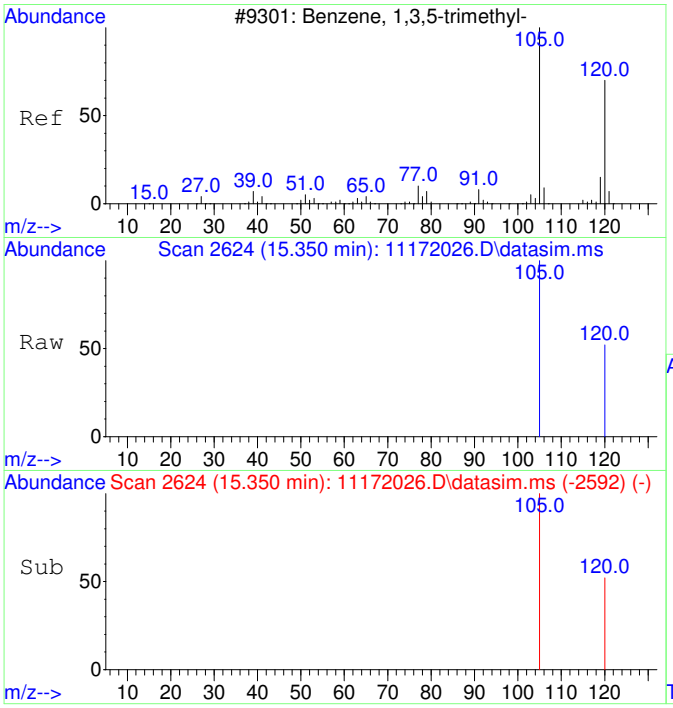


#20
o-Xylene
Concen: 70.46 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 10087

Ion	Ratio	Lower	Upper
91	100		
106	46.1	19.2	79.2

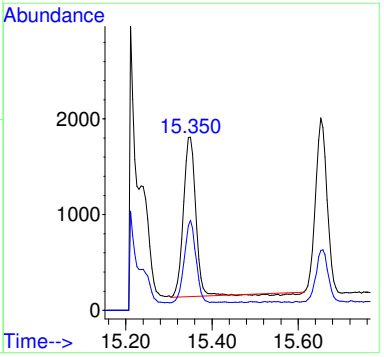


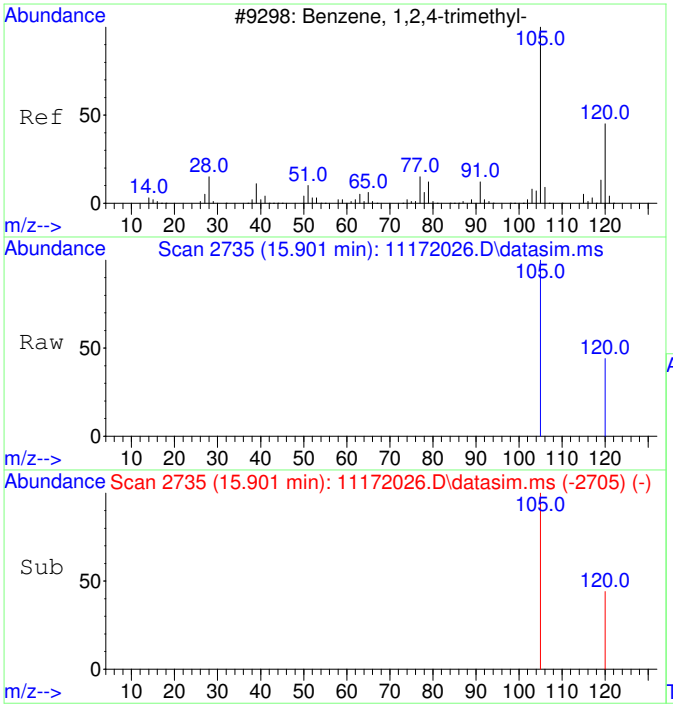


#22
1,3,5-Trimethylbenzene
Concen: 20.97 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:105 Resp: 3196

Ion	Ratio	Lower	Upper
105	100		
120	49.3	21.1	81.1

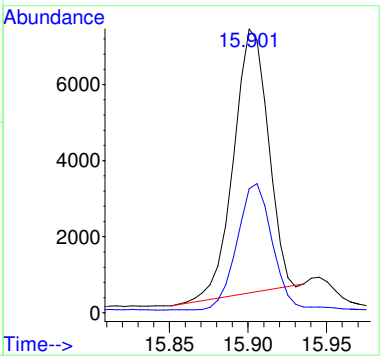




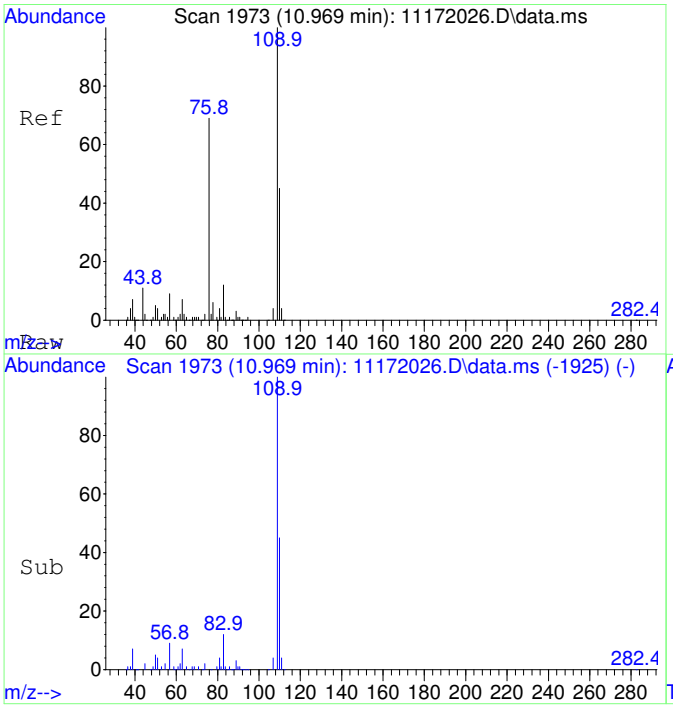
#23
1,2,4-Trimethylbenzene
Concen: 67.15 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:105 Resp: 10628

Ion	Ratio	Lower	Upper
105	100		
120	49.4	17.2	77.2



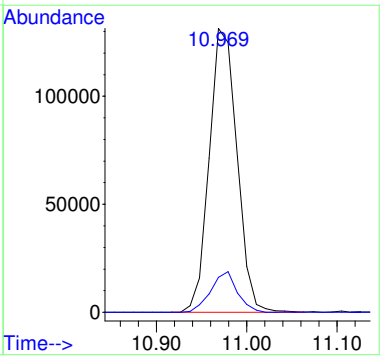
NT

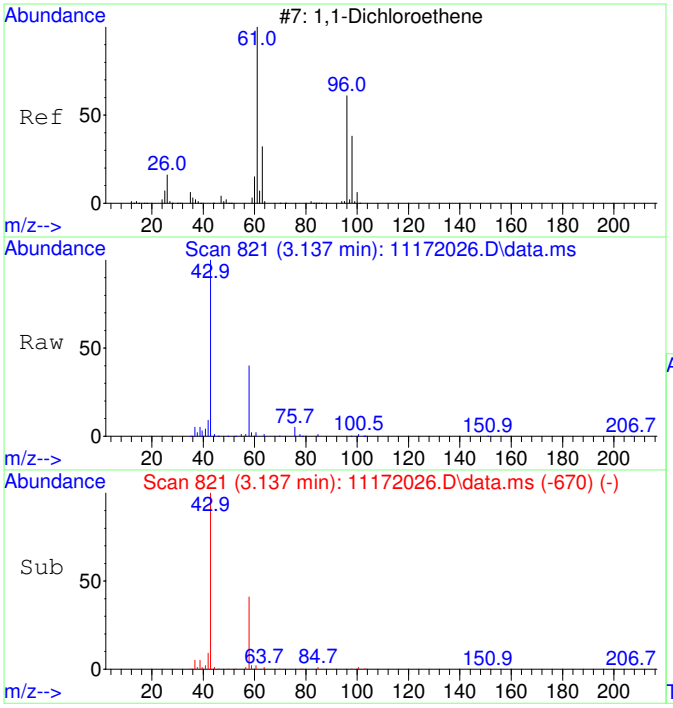


#25
2-Fluorotoluene SCAN
Concen: 5112.72 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:109 Resp: 281295

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	43.8

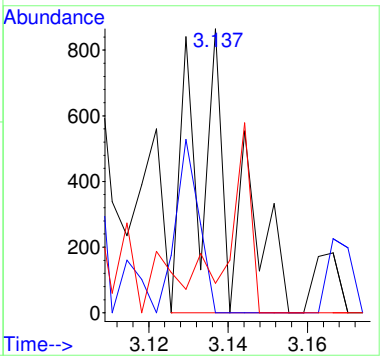


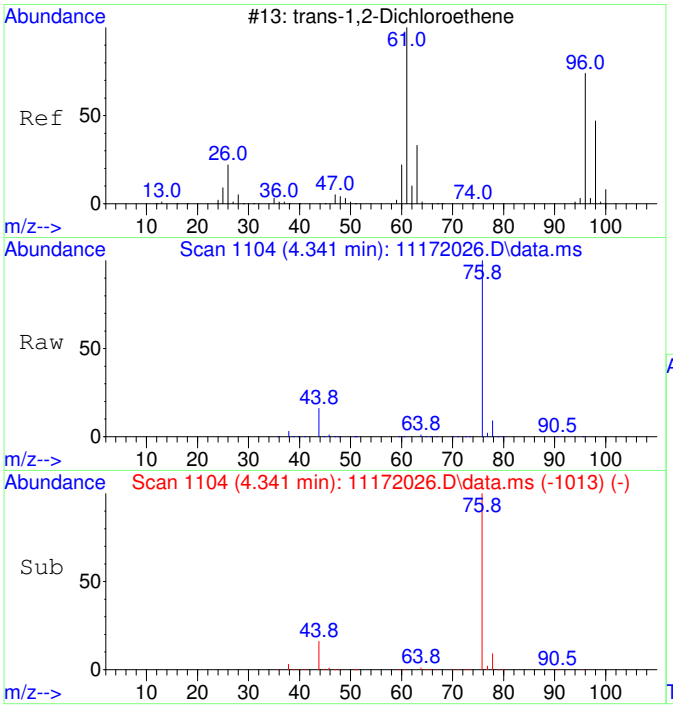


#26
1,1-Dichloroethene SCAN
Concen: 54.35 ug/L
RT: 3.137 min Scan# 821
Delta R.T. 0.060 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 61 Resp: 635

Ion	Ratio	Lower	Upper
61	100		
96	34.2	33.1	93.1
98	29.1	11.2	71.2

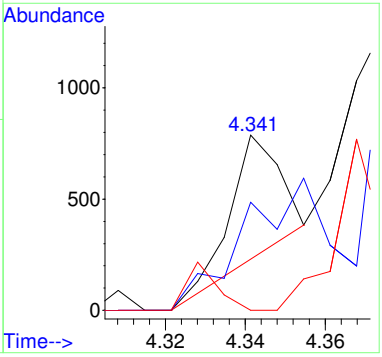


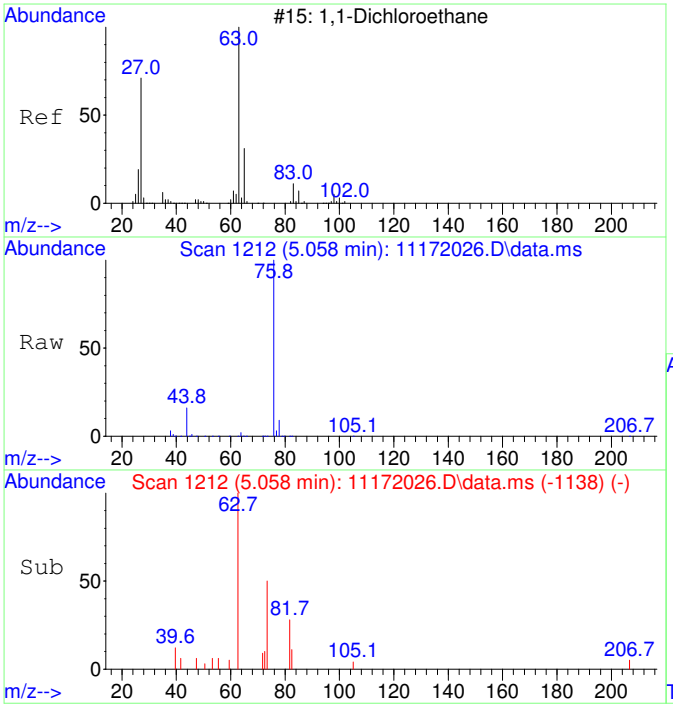


#27
trans-1,2-Dichloroethene SCAN
Concen: 36.52 ug/L
RT: 4.341 min Scan# 1104
Delta R.T. -0.007 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 61 Resp: 528

Ion	Ratio	Lower	Upper
61	100		
96	116.9	49.0	109.0#
98	0.0	20.5	80.5#

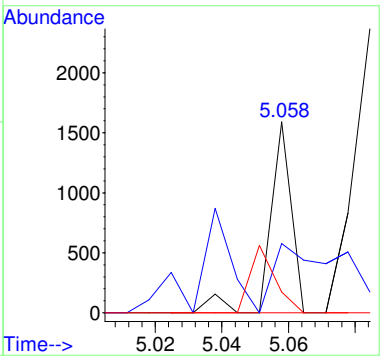


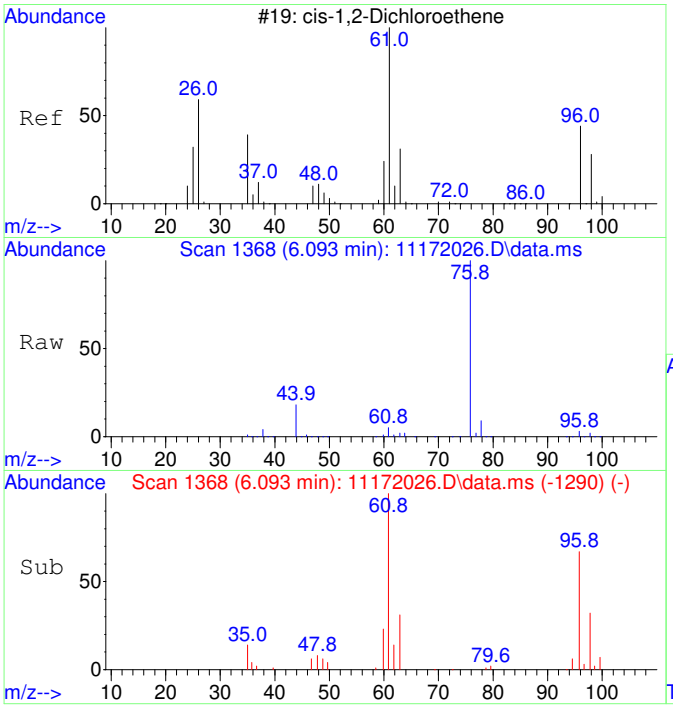


#28
1,1-Dichloroethane SCAN
Concen: 41.53 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.007 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 63 Resp: 695

Ion	Ratio	Lower	Upper
63	100		
65	46.5	1.3	61.3
83	42.2	0.0	45.9

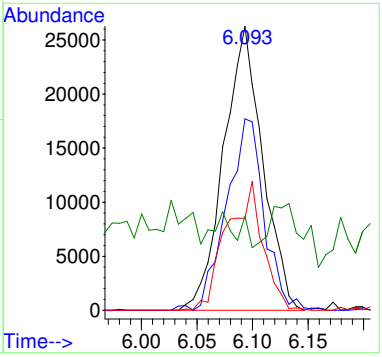


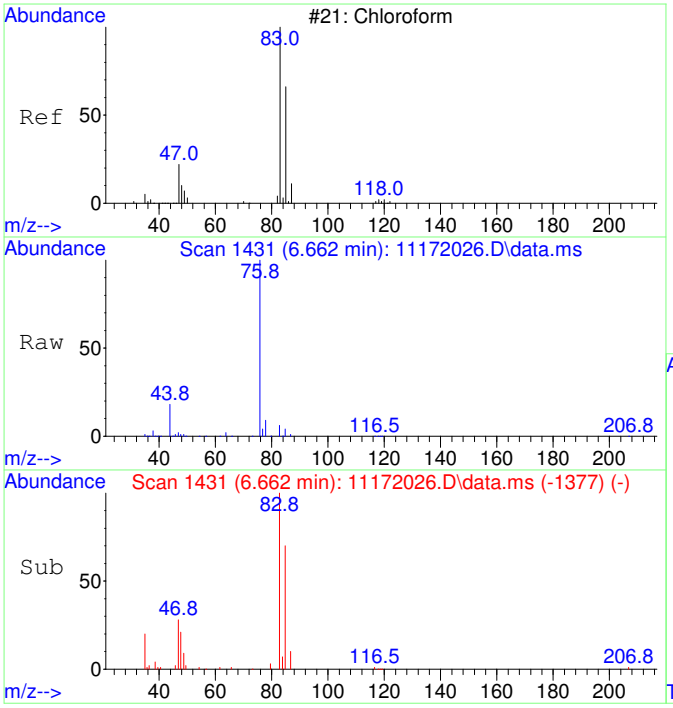


#29
cis-1,2-Dichloroethene SCAN
Concen: 3580.91 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 61 Resp: 64198

Ion	Ratio	Lower	Upper
61	100		
96	65.2	39.9	99.9
98	41.9	13.5	73.5
64	0.0	4.5	64.5#

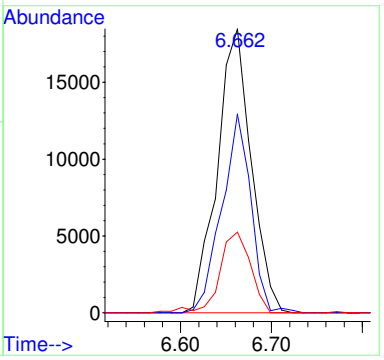


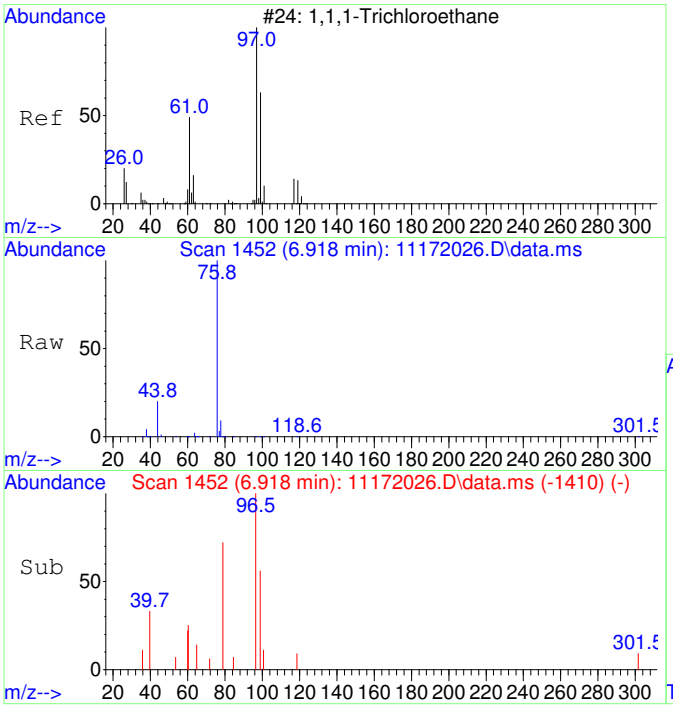


#30
Chloroform SCAN
Concen: 2471.81 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 83 Resp: 48065

Ion	Ratio	Lower	Upper
83	100		
85	60.2	34.6	94.6
47	26.0	0.0	53.4

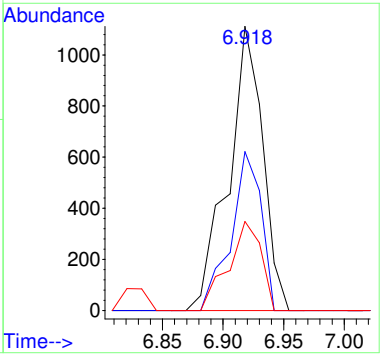


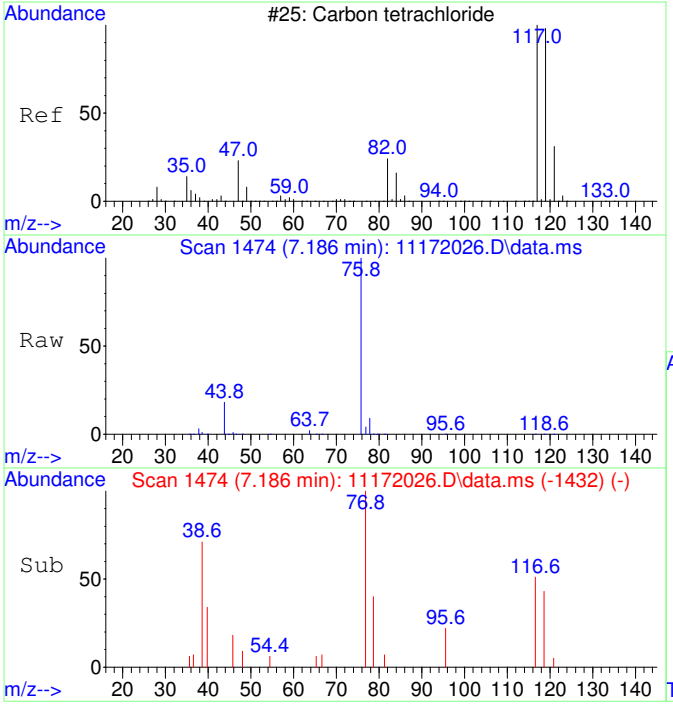


#31
1,1,1-Trichloroethane SCAN
Concen: 124.83 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 97 Resp: 2212

Ion	Ratio	Lower	Upper
97	100		
99	48.9	43.6	103.6
61	29.7	18.0	78.0

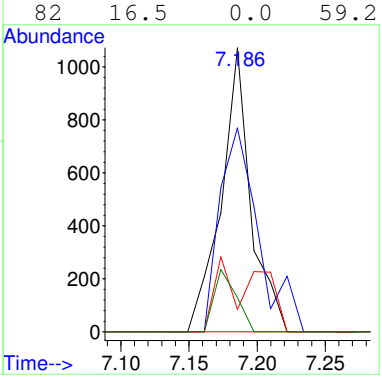


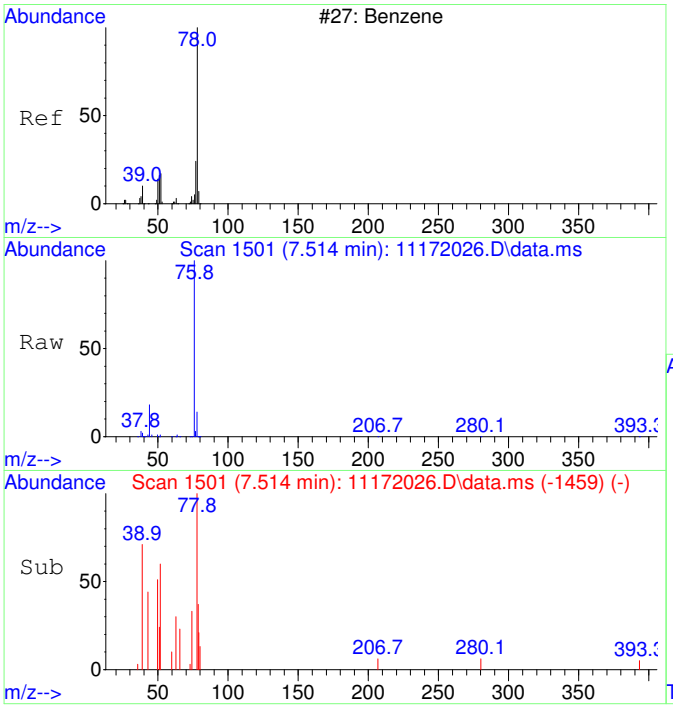


#32
Carbon tetrachloride SCAN
Concen: 87.81 ug/L
RT: 7.186 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:117 Resp: 1623

Ion	Ratio	Lower	Upper
117	100		
119	93.7	75.5	135.5
121	36.8	0.0	58.8
82	16.5	0.0	59.2

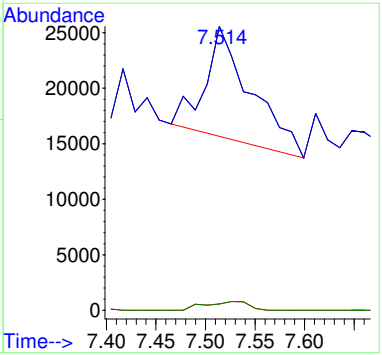


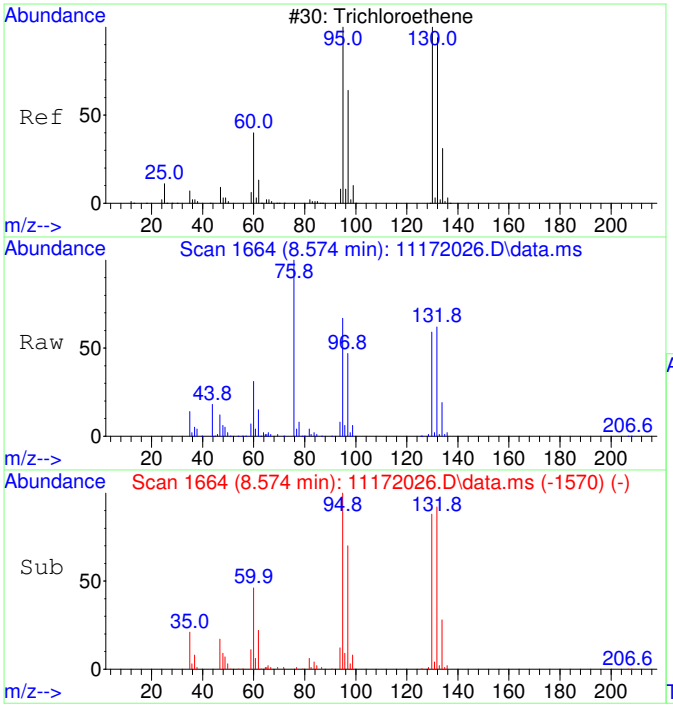


#33
Benzene SCAN
Concen: 635.58 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 78 Resp: 31010

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	7.8	0.0	47.9
51	7.8	0.0	44.1

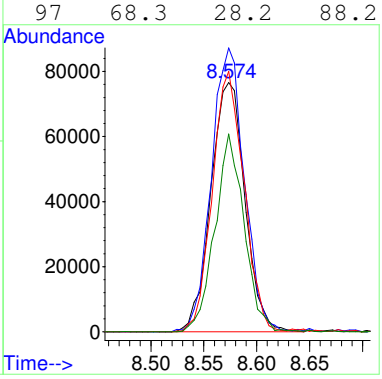


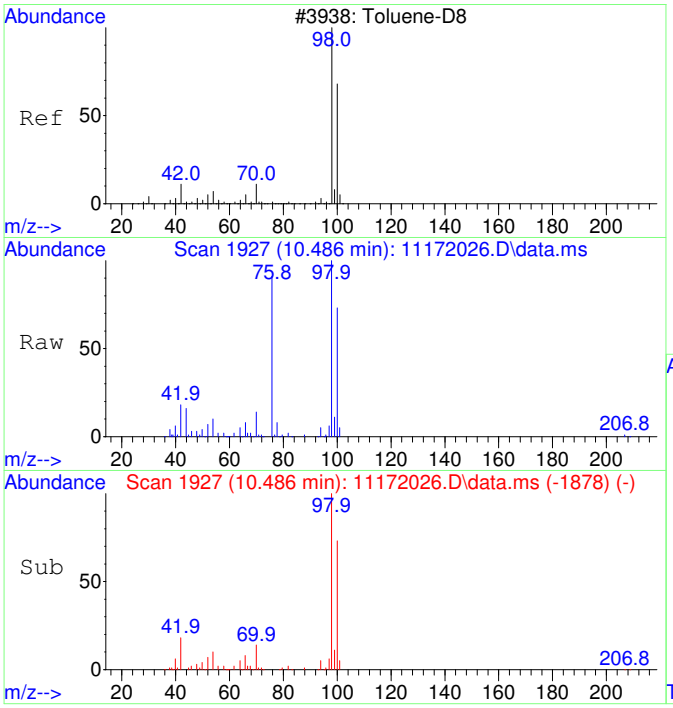


#35
Trichloroethene SCAN
Concen: 12774.87 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:130 Resp: 171283

Ion	Ratio	Lower	Upper
130	100		
95	109.6	60.5	120.5
132	96.6	59.6	119.6
97	68.3	28.2	88.2

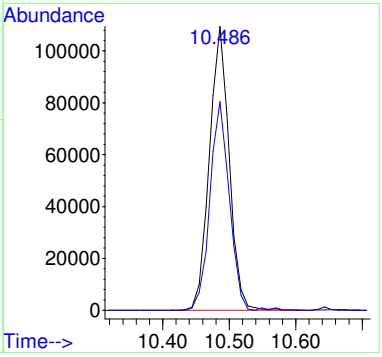


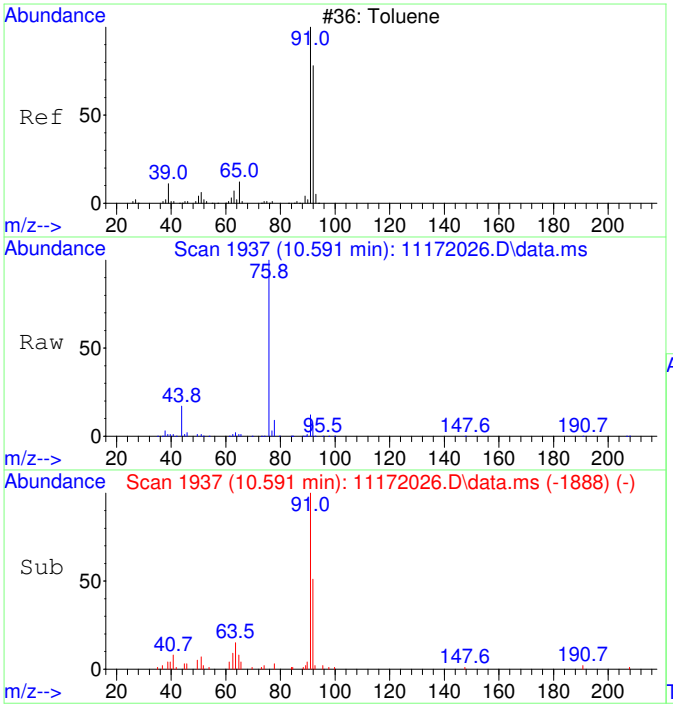


#36
Toluene-d8 SCAN
Concen: 4214.11 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 98 Resp: 226747

Ion	Ratio	Lower	Upper
98	100		
100	71.7	40.0	100.0

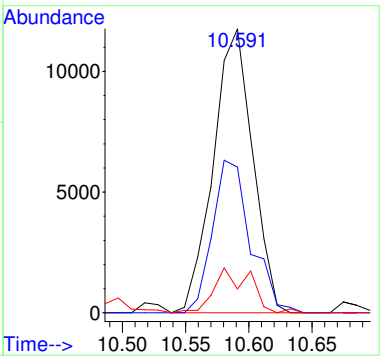


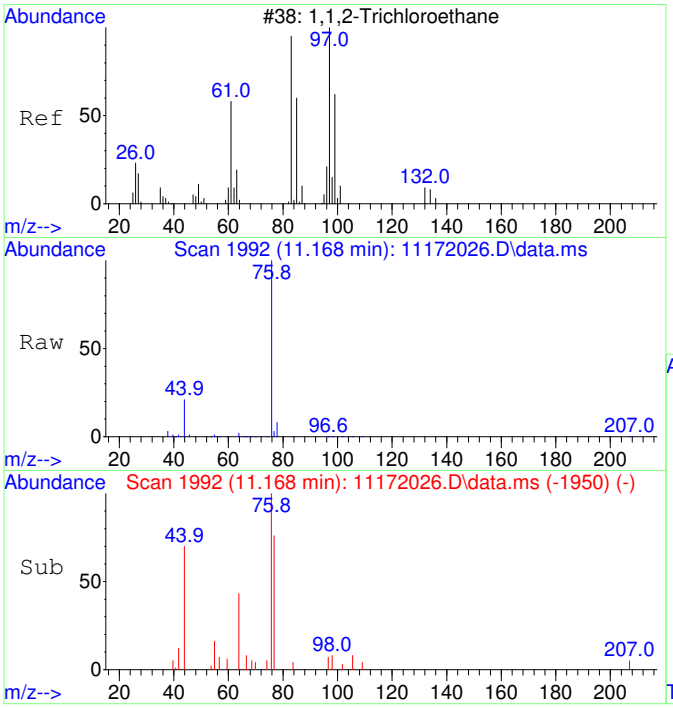


#37
Toluene SCAN
Concen: 371.06 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 25569

Ion	Ratio	Lower	Upper
91	100		
92	52.2	28.3	88.3
65	14.6	0.0	41.0

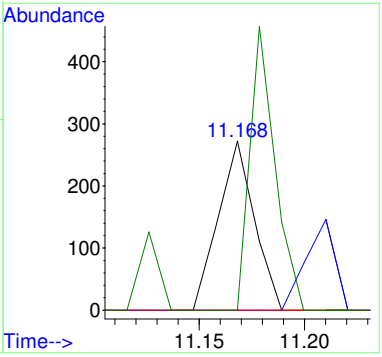


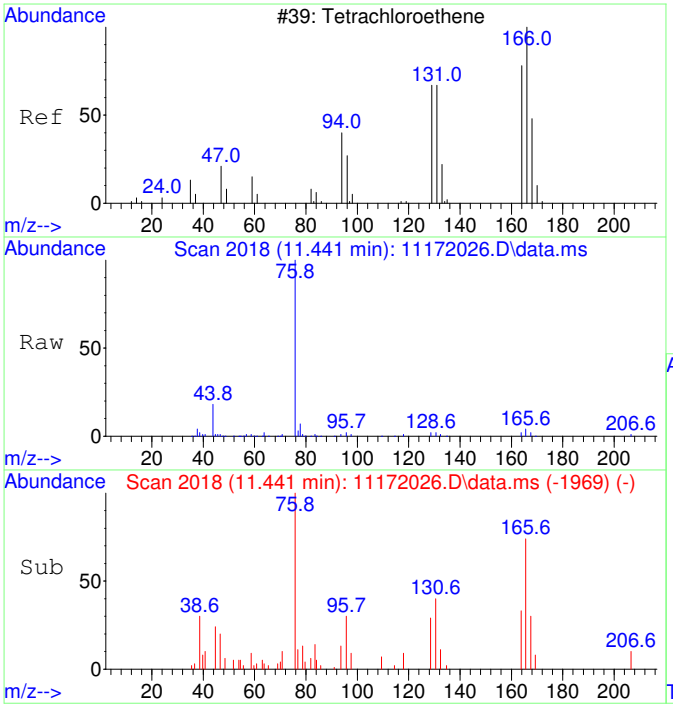


#38
1,1,2-Trichloroethane SCAN
Concen: 20.95 ug/L
RT: 11.168 min Scan# 1992
Delta R.T. -0.063 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 97 Resp: 324

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	116.4	36.7	96.7#

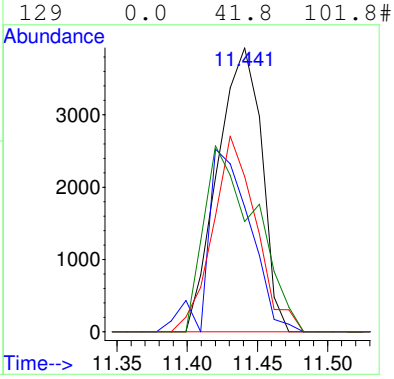


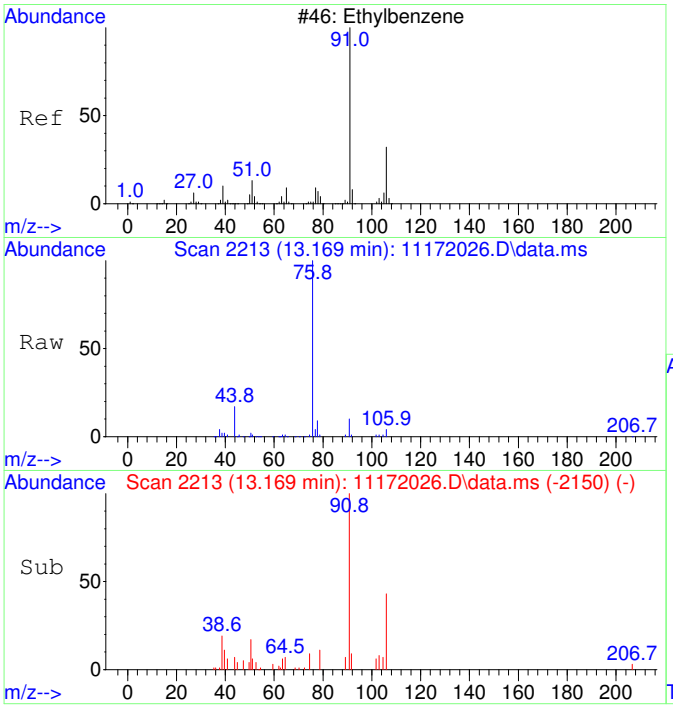


#39
Tetrachloroethene SCAN
Concen: 520.33 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:166 Resp: 8614

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	67.6	38.7	98.7
129	0.0	41.8	101.8#

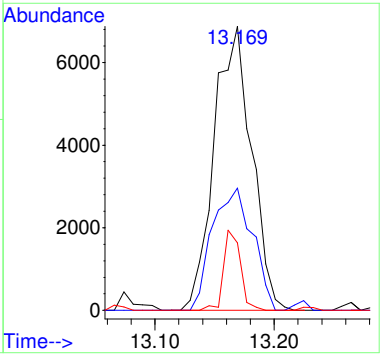


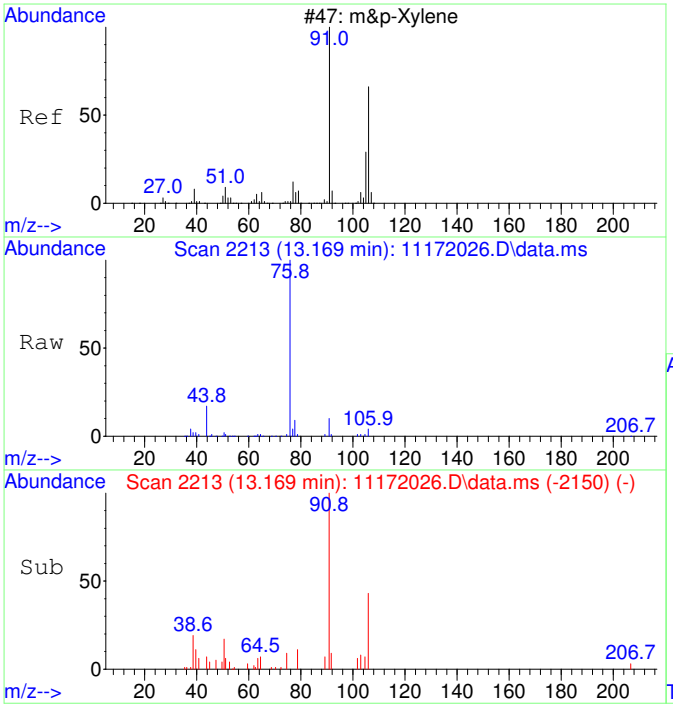


#42
Ethylbenzene SCAN
Concen: 119.84 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 15045

Ion	Ratio	Lower	Upper
91	100		
106	46.3	23.1	83.1
51	12.7	0.0	40.1

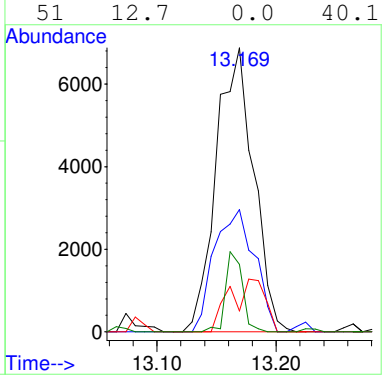


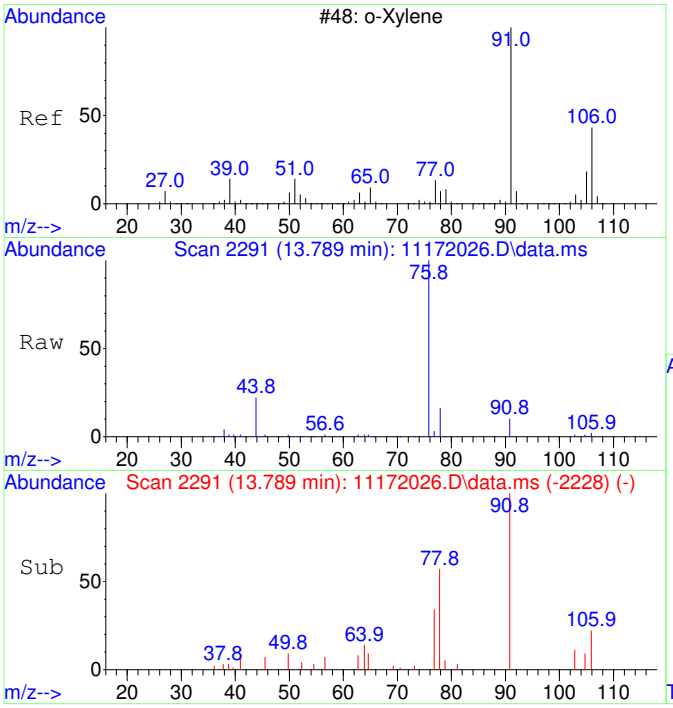


#43
m&p-Xylene SCAN
Concen: 119.84 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 15045

Ion	Ratio	Lower	Upper
91	100		
106	46.3	23.1	83.1
105	17.4	0.0	54.7
51	12.7	0.0	40.1

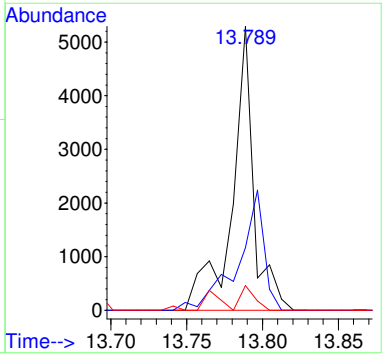


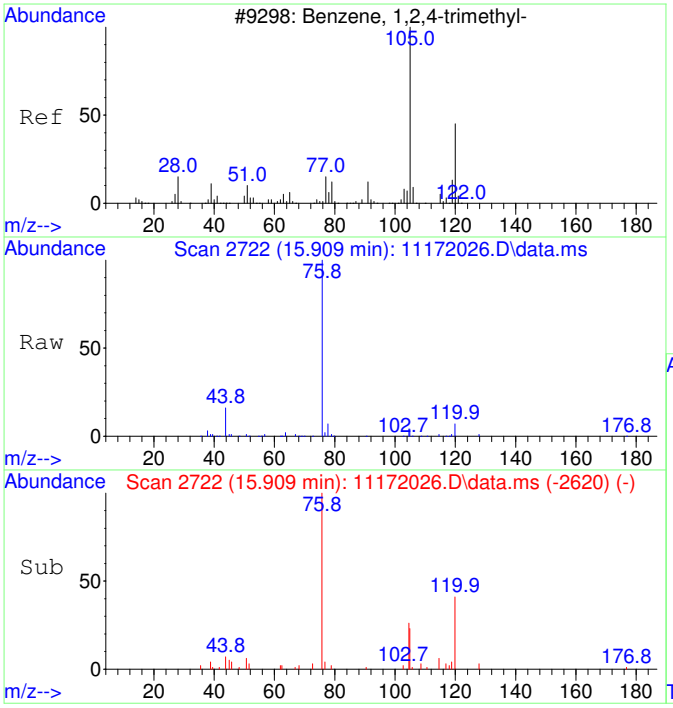


#44
o-Xylene SCAN
Concen: 77.83 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 5230

Ion	Ratio	Lower	Upper
91	100		
106	51.0	18.0	78.0
105	5.8	0.0	56.6

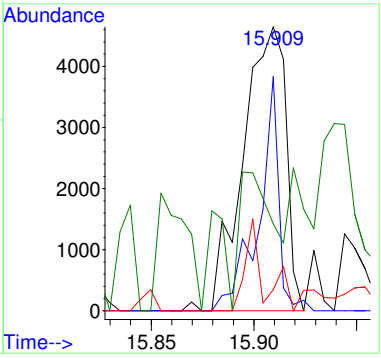




#47
1,2,4-Trimethylbenzene SCAN
Concen: 93.18 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.005 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:105 Resp: 6752

Ion	Ratio	Lower	Upper
105	100		
120	38.3	16.9	76.9
119	0.0	0.0	41.9
77	7.4	0.0	42.3



Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172026.D
Acq On : 17 Nov 2020 17:46
InstName : AG5975C
Operator : TD
Sample : 2011017-15
Misc :
ALS Vial : 26 Sample Multiplier: 1

M.I. Performed By:
TD at 9:43 am, Nov 23, 2020

M.I. Approved By:
ZR at 3:44 pm, Nov 23, 2020

Quant Time: Nov 18 06:16:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

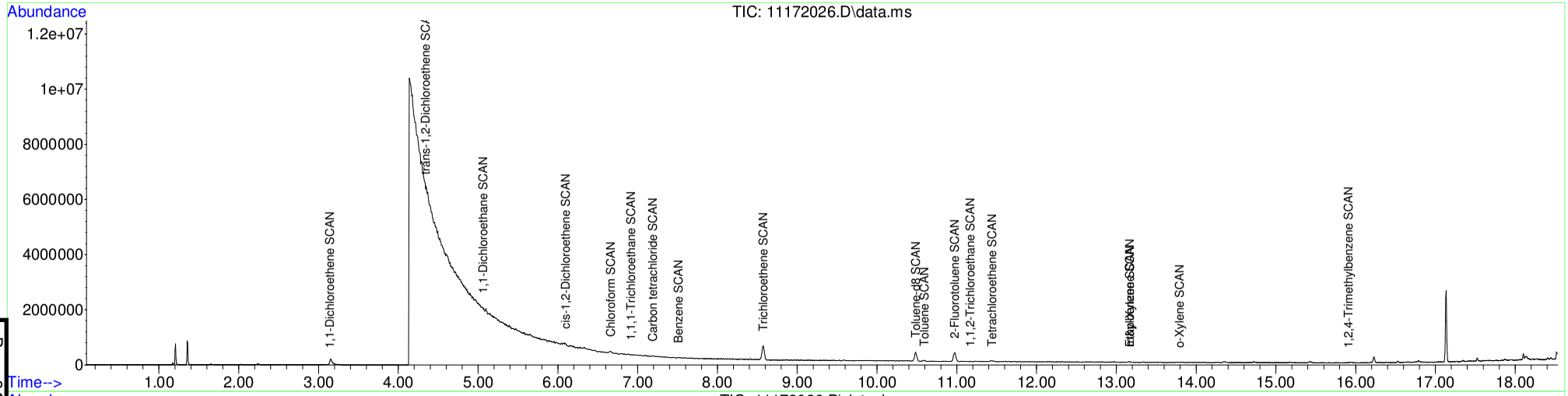
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	564401	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	486032	4398.97 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.98%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	4561m	202.37 ug/L	
3] trans-1,2-Dichloroethene	4.376	61	6363	244.36 ug/L	91
4] 1,1-Dichloroethane	5.086	63	6029	186.00 ug/L	79
5] cis-1,2-Dichloroethene	6.088	61	117516	3434.65 ug/L	99
6] Chloroform	6.652	83	79720	2276.40 ug/L	99
7] 1,1,1-Trichloroethane	6.919	97	4145	108.99 ug/L	99
8] Carbon tetrachloride	7.187	117	3870	108.11 ug/L	99
9] Benzene	7.503	78	21760	226.92 ug/L	77
10] 1,2-Dichloroethane	7.552	62	847	24.74 ug/L #	42
11] Trichloroethene	8.575	130	368245	12754.09 ug/L	94
13] Toluene	10.582	91	38321	272.05 ug/L	99
15] Tetrachloroethene	11.432	166	16649	408.41 ug/L	98
18] Ethylbenzene	12.972	91	14043	81.90 ug/L	96
19] m&p-Xylene	13.162	91	25333	189.04 ug/L	96
20] o-Xylene	13.782	91	10087	70.46 ug/L	96
22] 1,3,5-Trimethylbenzene	15.350	105	3196	20.97 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	10628	67.15 ug/L	97
25) 2-Fluorotoluene SCAN	10.969	109	281295	5112.72 ug/L	100
26) 1,1-Dichloroethene SCAN	3.137	61	635	54.35 ug/L	70
27) trans-1,2-Dichloroethe...	4.341	61	528	36.52 ug/L #	45
28) 1,1-Dichloroethane SCAN	5.058	63	695	41.53 ug/L	61
29) cis-1,2-Dichloroethene...	6.093	61	64198	3580.91 ug/L #	83
30) Chloroform SCAN	6.662	83	48065	2471.81 ug/L	94
31) 1,1,1-Trichloroethane ...	6.918	97	2212	124.83 ug/L	72
32) Carbon tetrachloride SCAN	7.186	117	1623	87.81 ug/L	86
33) Benzene SCAN	7.514	78	31010	635.58 ug/L	95
35) Trichloroethene SCAN	8.574	130	171283	12774.87 ug/L	86
36) Toluene-d8 SCAN	10.486	98	226747	4214.11 ug/L	98
37) Toluene SCAN	10.591	91	25569	371.06 ug/L	92
38) 1,1,2-Trichloroethane ...	11.168	97	324	20.95 ug/L #	19
39) Tetrachloroethene SCAN	11.441	166	8614	520.33 ug/L #	38
42) Ethylbenzene SCAN	13.169	91	15045	119.84 ug/L	91
43) m&p-Xylene SCAN	13.169	91	15045	119.84 ug/L	89
44) o-Xylene SCAN	13.789	91	5230	77.83 ug/L	83
47) 1,2,4-Trimethylbenzene...	15.909	105	6752	93.18 ug/L #	84

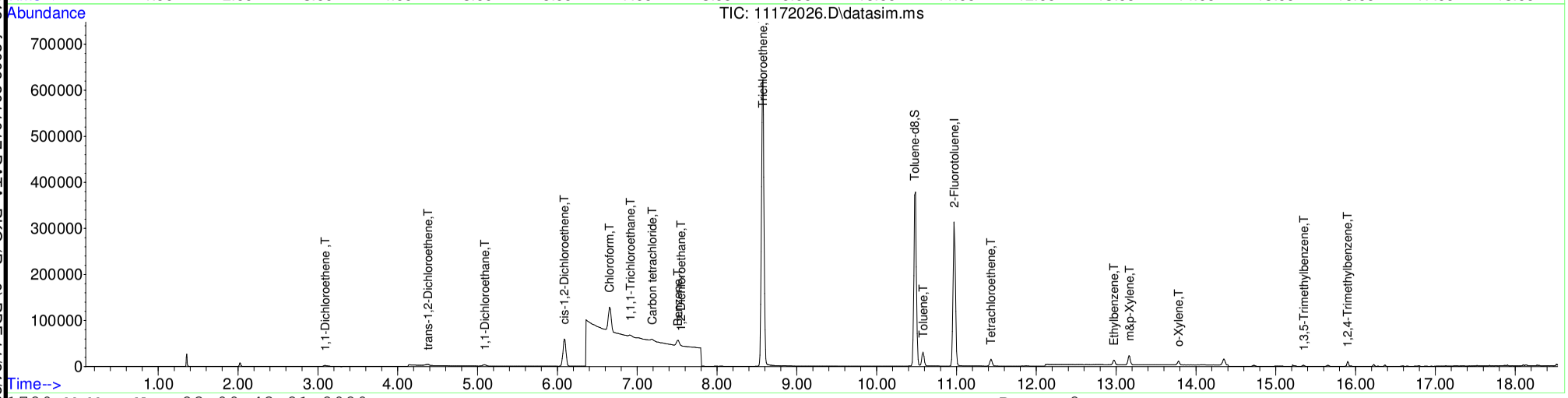
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172026.D
Acq On : 17 Nov 2020 17:46
InstName : AG5975C
Operator : TD
Sample : 2011017-15
Misc :
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 18 06:16:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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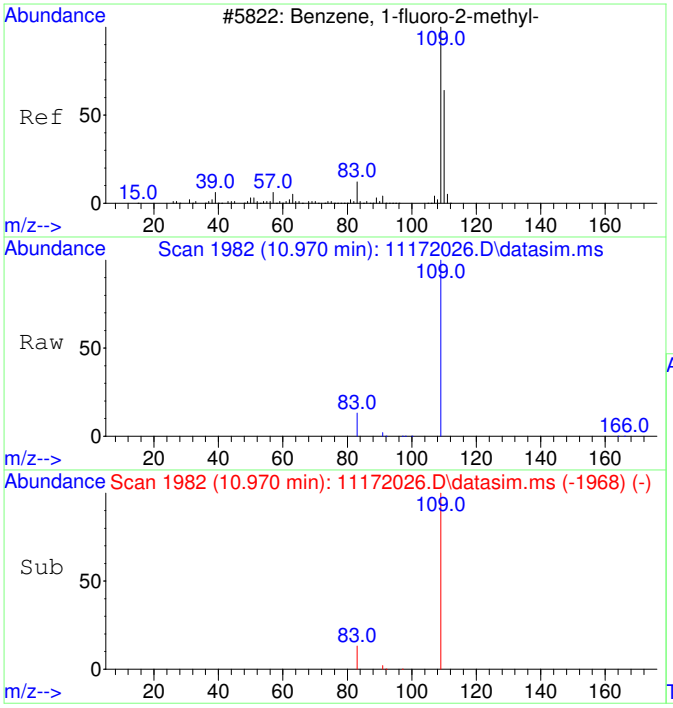
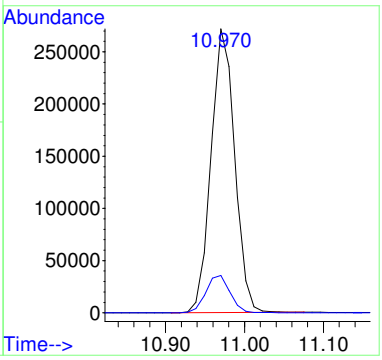
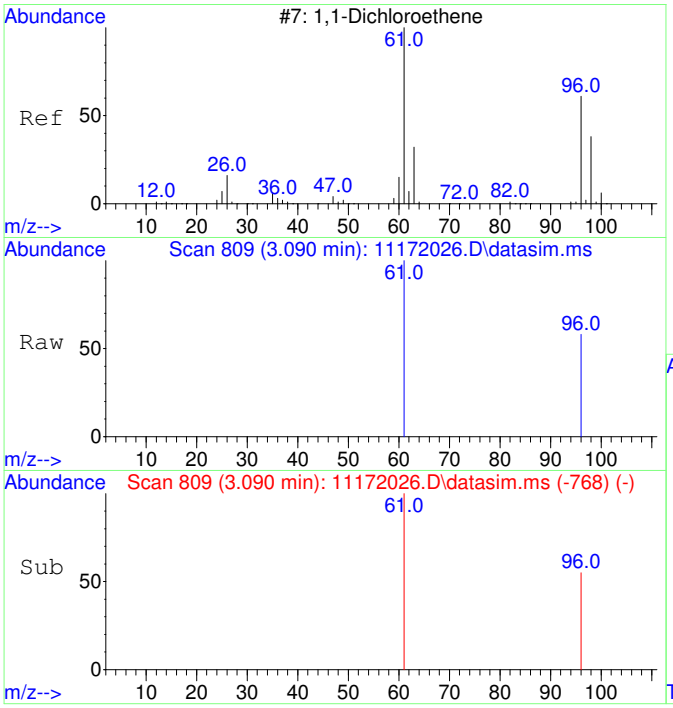


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:109 Resp: 564401

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

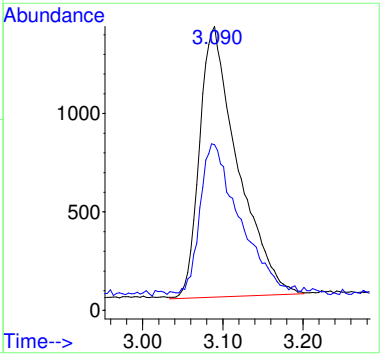


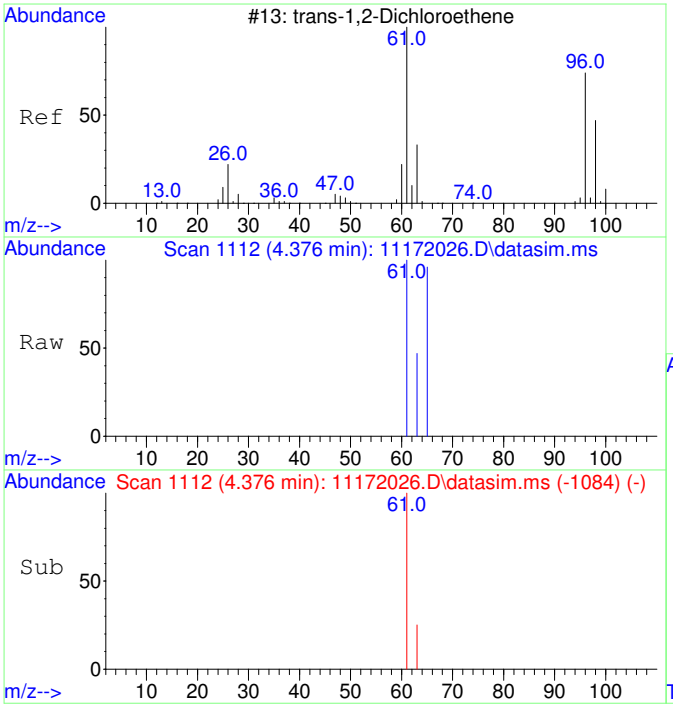


#2
1,1-Dichloroethene
Concen: 202.37 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 61 Resp: 4561

Ion	Ratio	Lower	Upper
61	100		
96	66.4	37.2	97.2

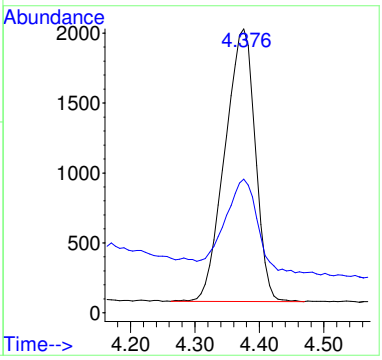


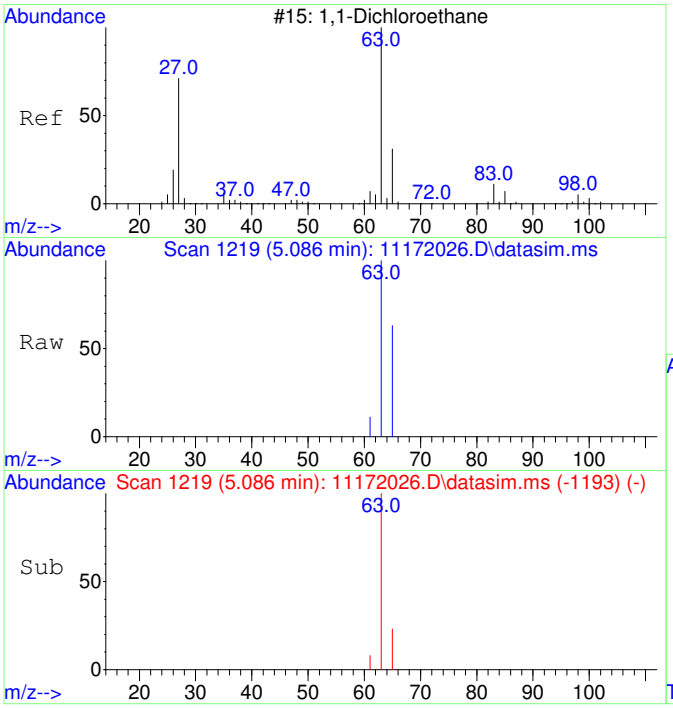


#3
trans-1,2-Dichloroethene
Concen: 244.36 ug/L
RT: 4.376 min Scan# 1112
Delta R.T. 0.033 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 61 Resp: 6363

Ion	Ratio	Lower	Upper
61	100		
63	37.7	2.4	62.4

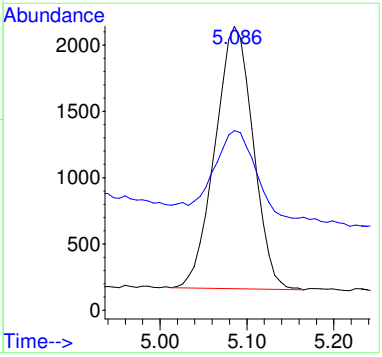


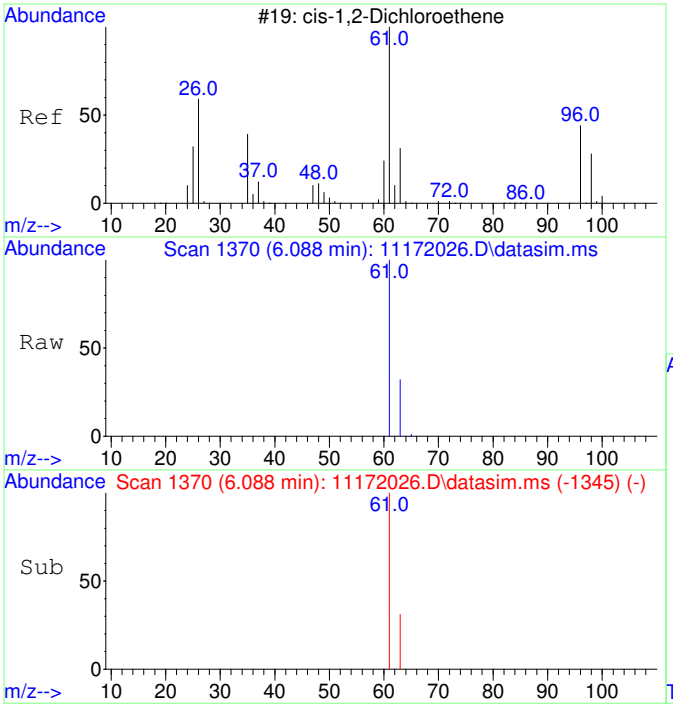


#4
1,1-Dichloroethane
Concen: 186.00 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 63 Resp: 6029

Ion	Ratio	Lower	Upper
63	100		
65	43.5	1.8	61.8

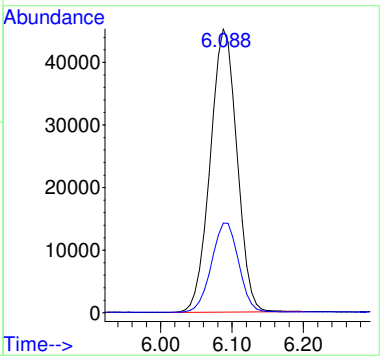


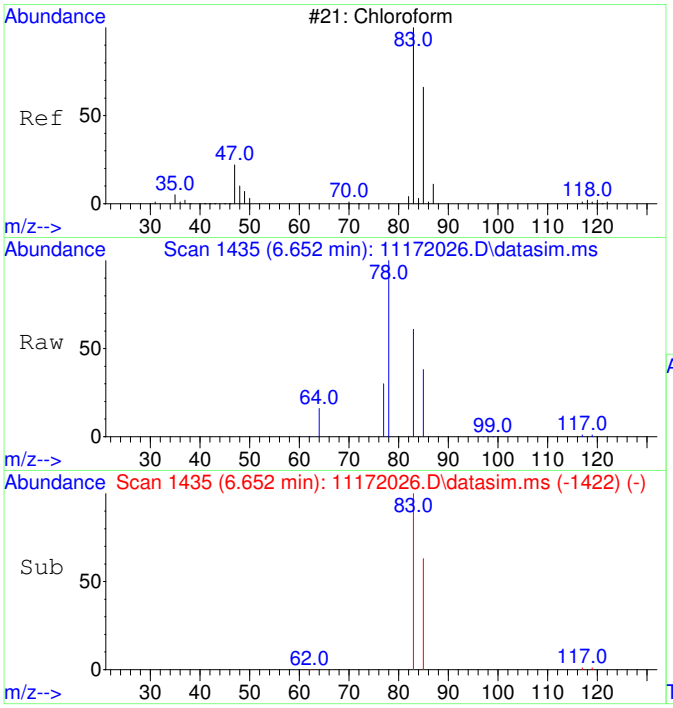


#5
cis-1,2-Dichloroethene
Concen: 3434.65 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 61 Resp: 117516

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

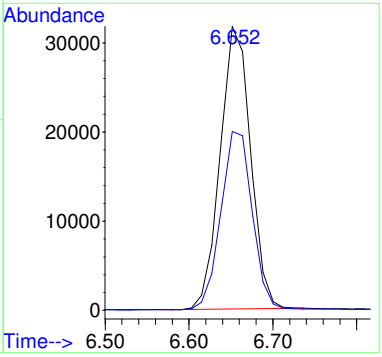


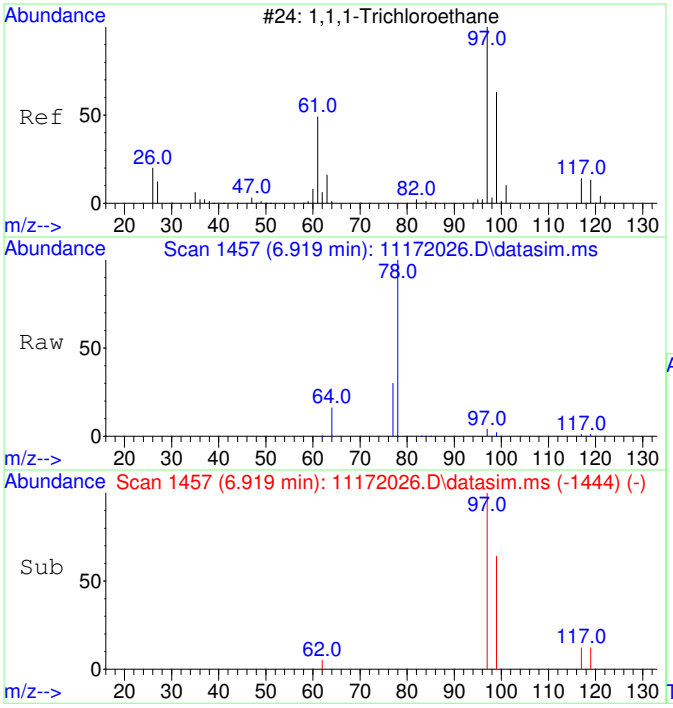


#6
Chloroform
Concen: 2276.40 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 83 Resp: 79720

Ion	Ratio	Lower	Upper
83	100		
85	64.7	35.1	95.1

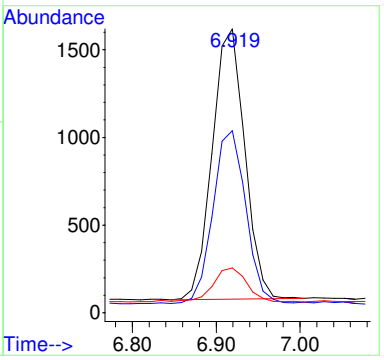


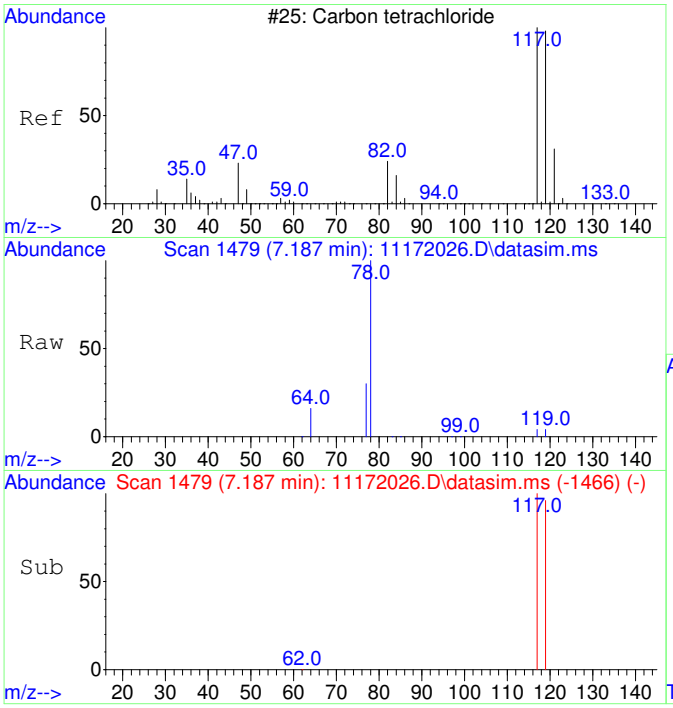


#7
1,1,1-Trichloroethane
Concen: 108.99 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 97 Resp: 4145

Ion	Ratio	Lower	Upper
97	100		
99	64.1	34.6	94.6
117	13.3	0.0	43.2

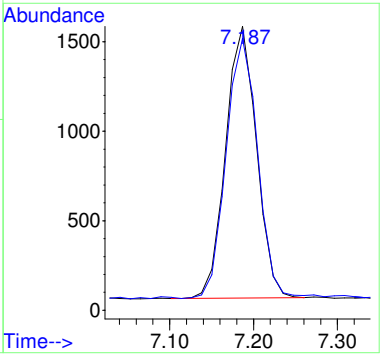


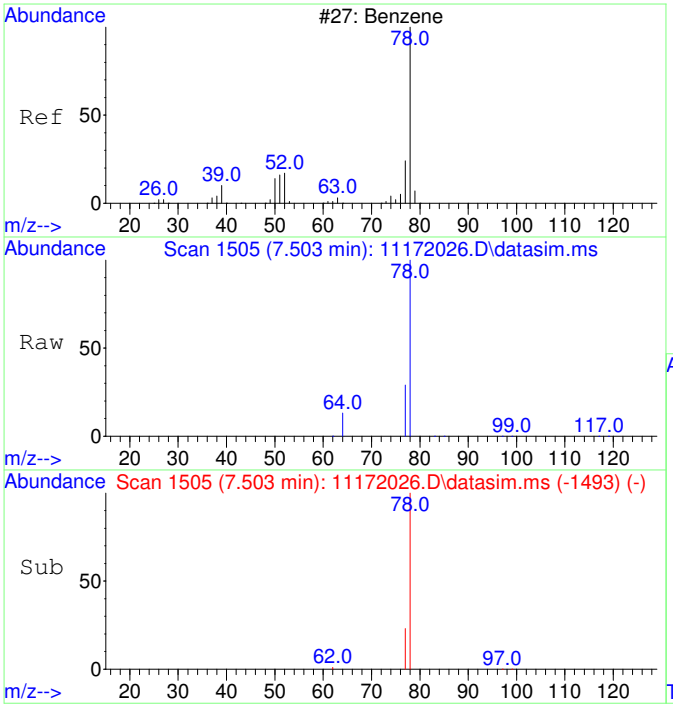


#8
Carbon tetrachloride
Concen: 108.11 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:117 Resp: 3870

Ion	Ratio	Lower	Upper
117	100		
119	97.7	66.4	126.4

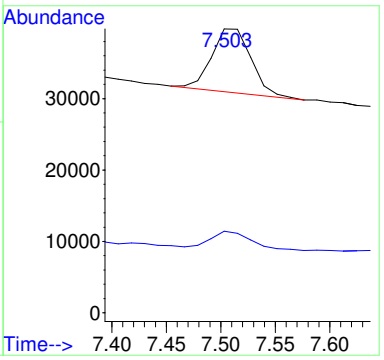


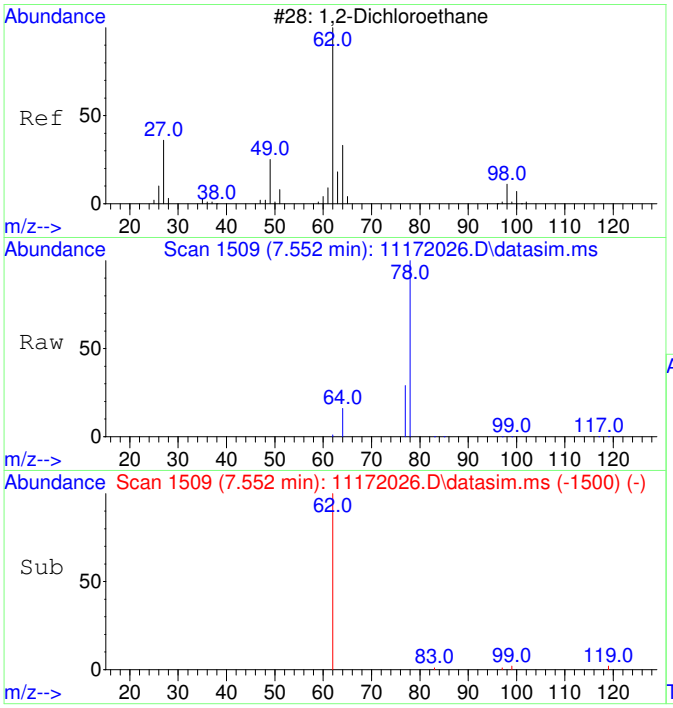


#9
Benzene
Concen: 226.92 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 78 Resp: 21760

Ion	Ratio	Lower	Upper
78	100		
77	34.2	0.0	53.2

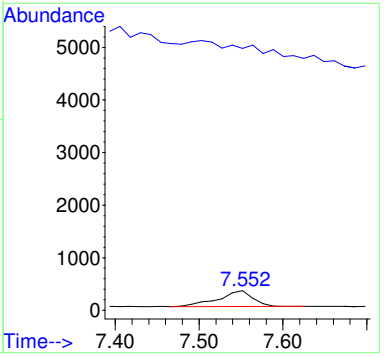


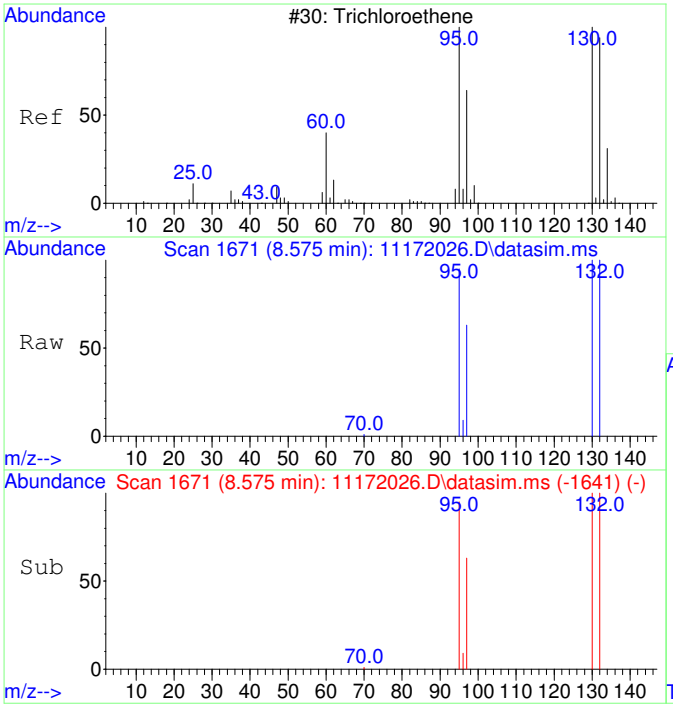


#10
1,2-Dichloroethane
Concen: 24.74 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 62 Resp: 847

Ion	Ratio	Lower	Upper
62	100		
64	0.0	2.3	62.3#

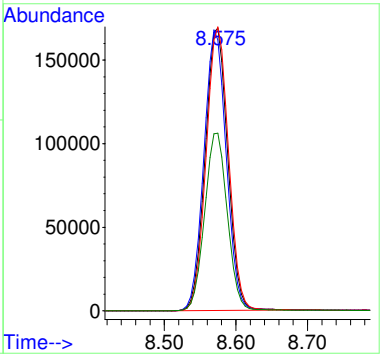


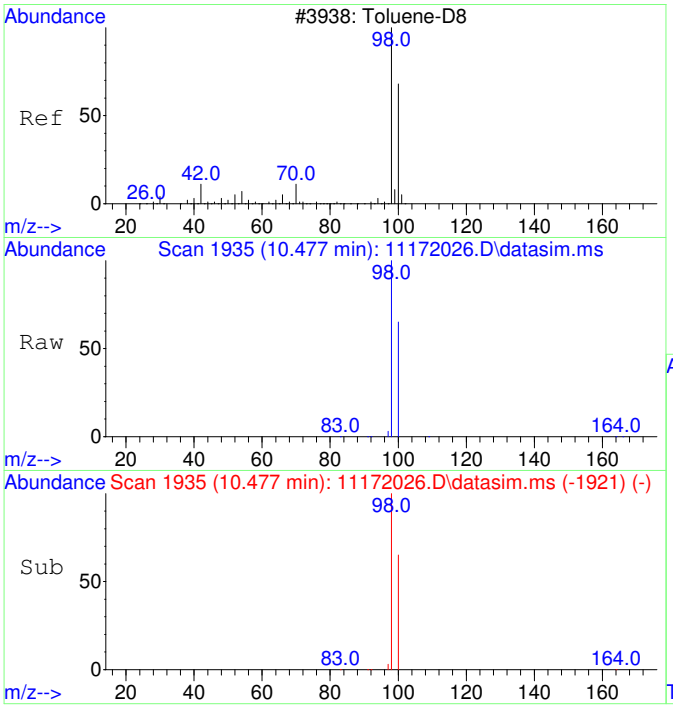


#11
Trichloroethene
Concen: 12754.09 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:130 Resp: 368245

Ion	Ratio	Lower	Upper
130	100		
95	98.4	60.7	120.7
132	99.8	76.0	116.0
97	63.0	38.6	78.6

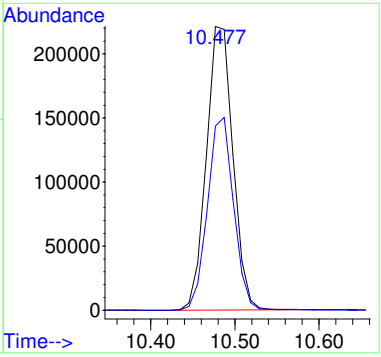


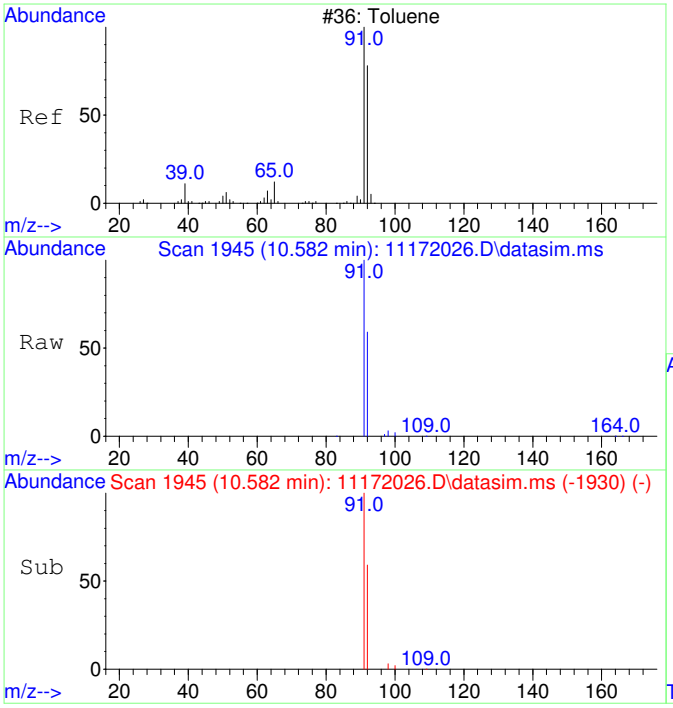


#12
Toluene-d8
Concen: 4398.97 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 98 Resp: 486032

Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1

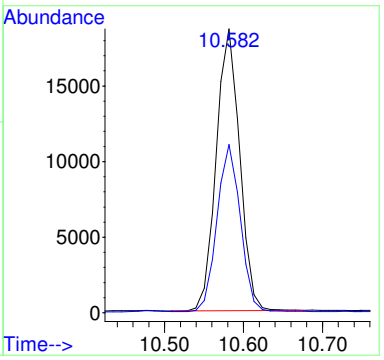


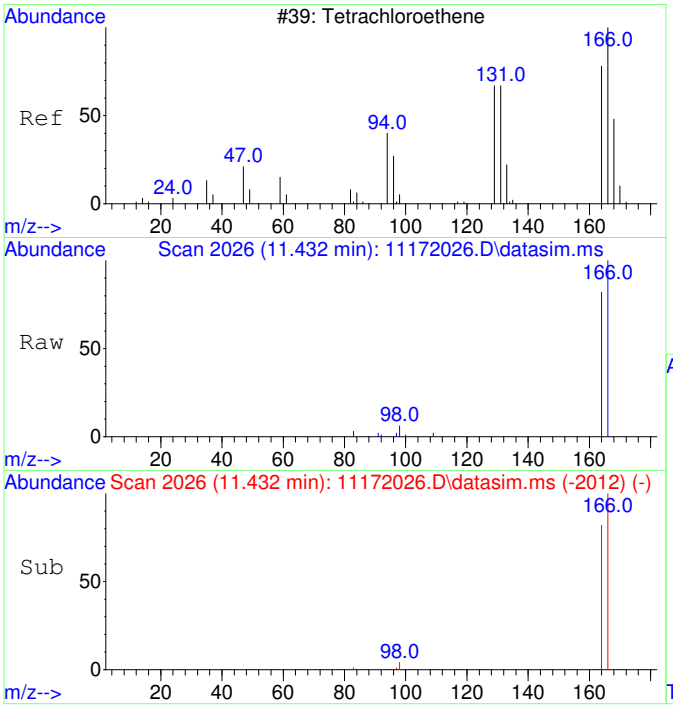


#13
Toluene
Concen: 272.05 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 38321

Ion	Ratio	Lower	Upper
91	100		
92	58.8	29.9	89.9

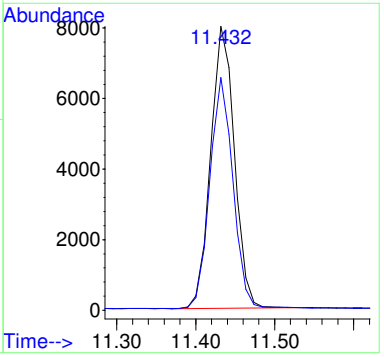


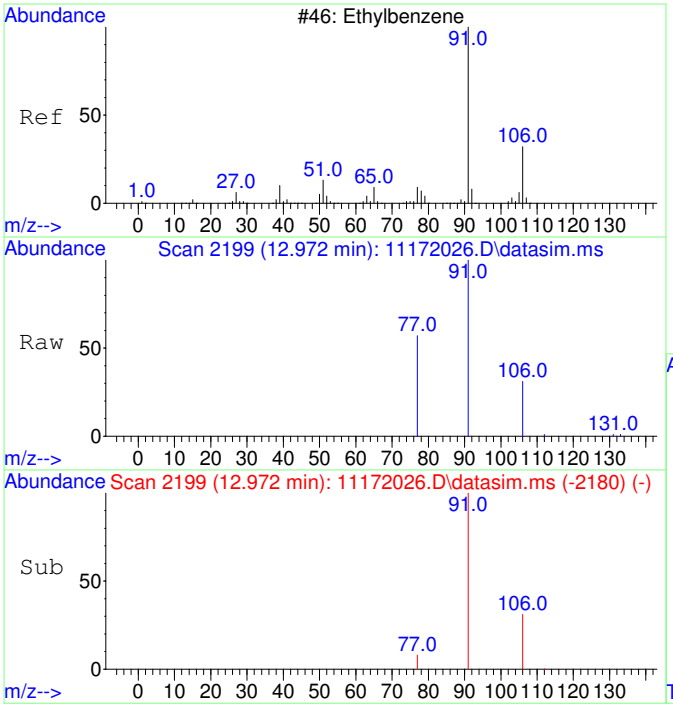


#15
Tetrachloroethene
Concen: 408.41 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:166 Resp: 16649

Ion	Ratio	Lower	Upper
166	100		
164	79.4	47.8	107.8

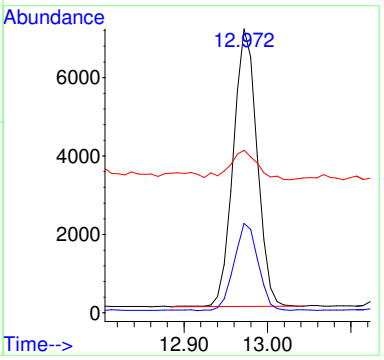


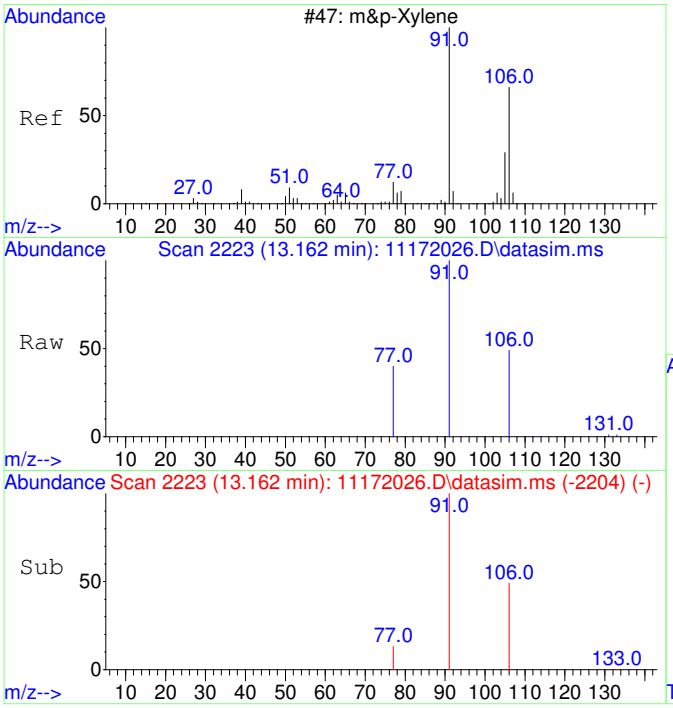


#18
Ethylbenzene
Concen: 81.90 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 14043

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	12.5	0.0	38.2

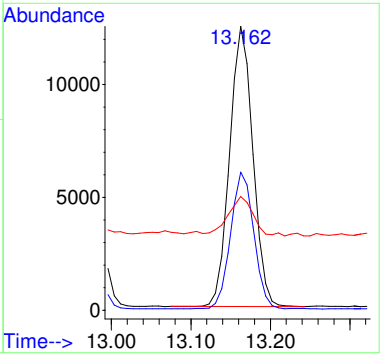


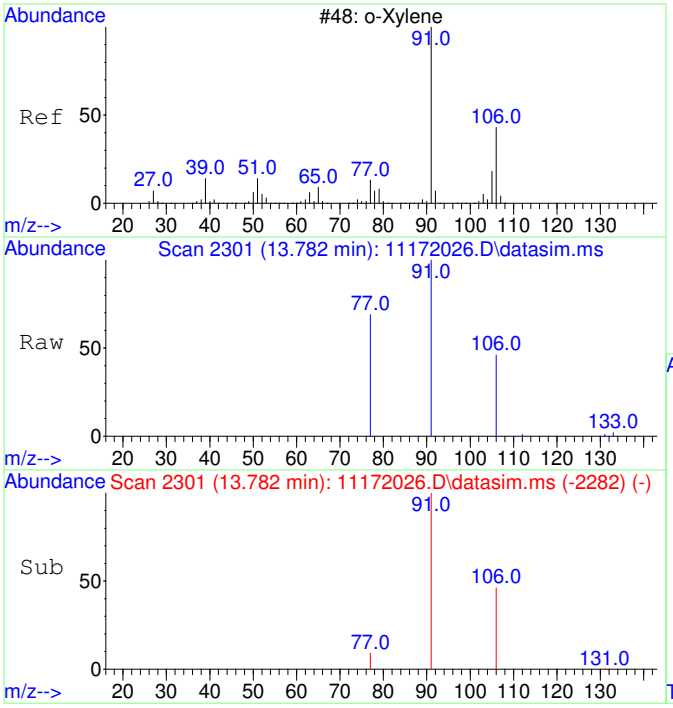


#19
m&p-Xylene
Concen: 189.04 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 25333

Ion	Ratio	Lower	Upper
91	100		
106	48.9	22.2	82.2
77	13.8	0.0	42.4

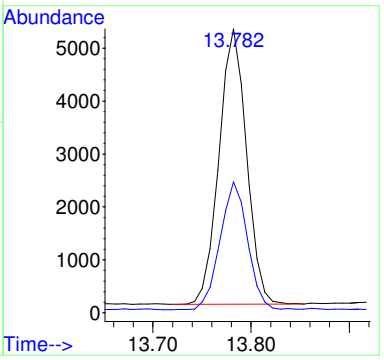


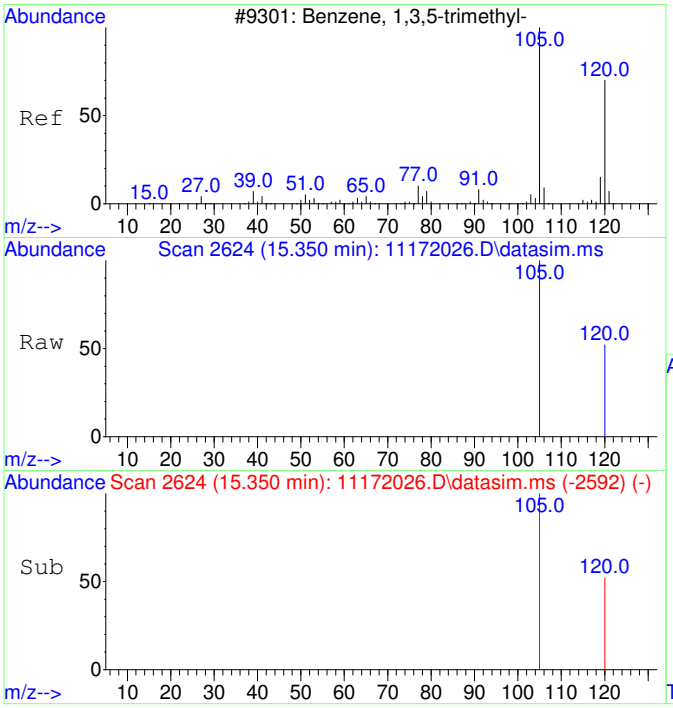


#20
o-Xylene
Concen: 70.46 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 10087

Ion	Ratio	Lower	Upper
91	100		
106	46.1	19.2	79.2

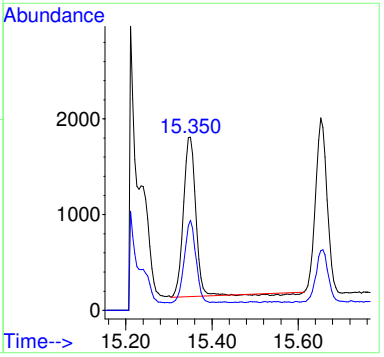


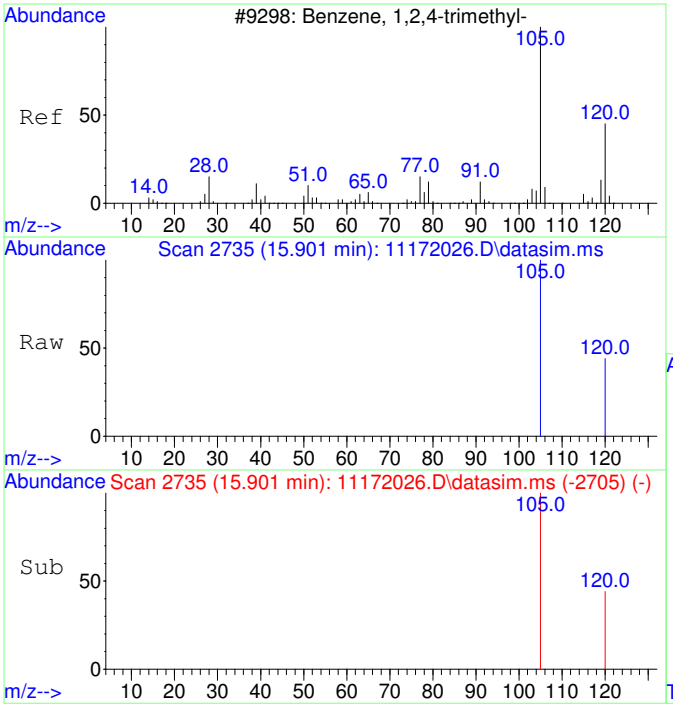


#22
1,3,5-Trimethylbenzene
Concen: 20.97 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:105 Resp: 3196

Ion	Ratio	Lower	Upper
105	100		
120	49.3	21.1	81.1

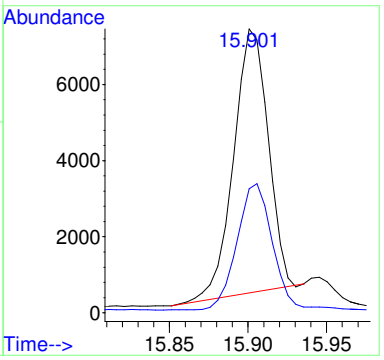




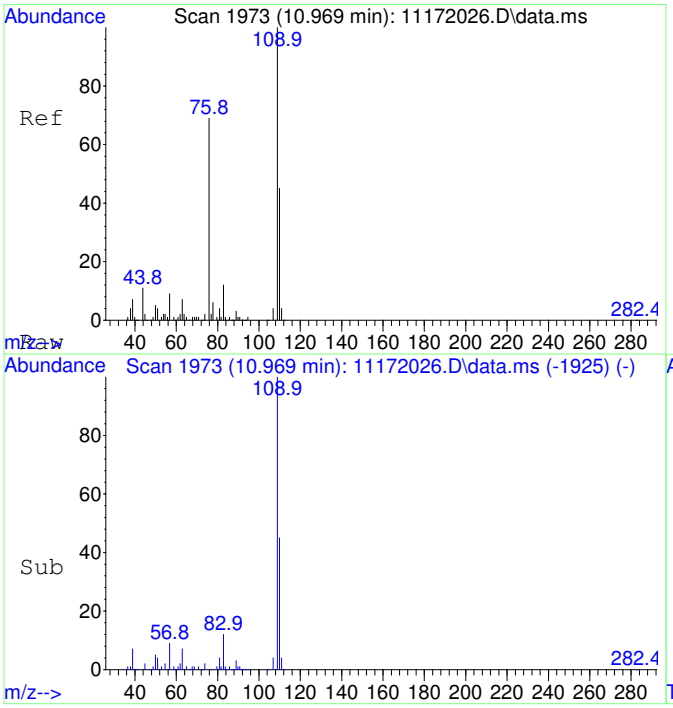
#23
1,2,4-Trimethylbenzene
Concen: 67.15 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:105 Resp: 10628

Ion	Ratio	Lower	Upper
105	100		
120	49.4	17.2	77.2



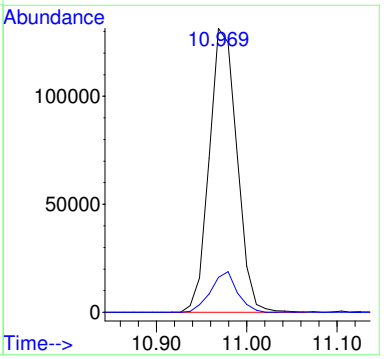
NT

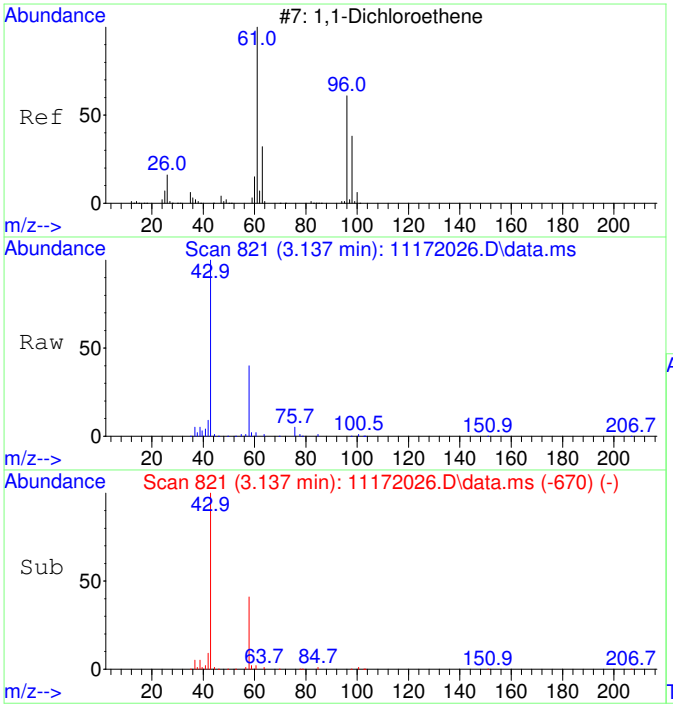


#25
2-Fluorotoluene SCAN
Concen: 5112.72 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:109 Resp: 281295

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	43.8

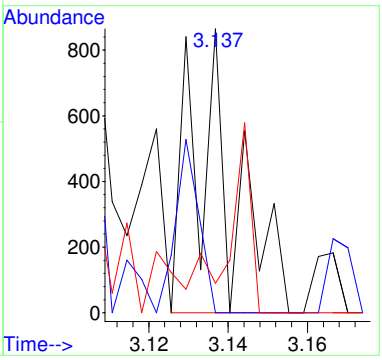


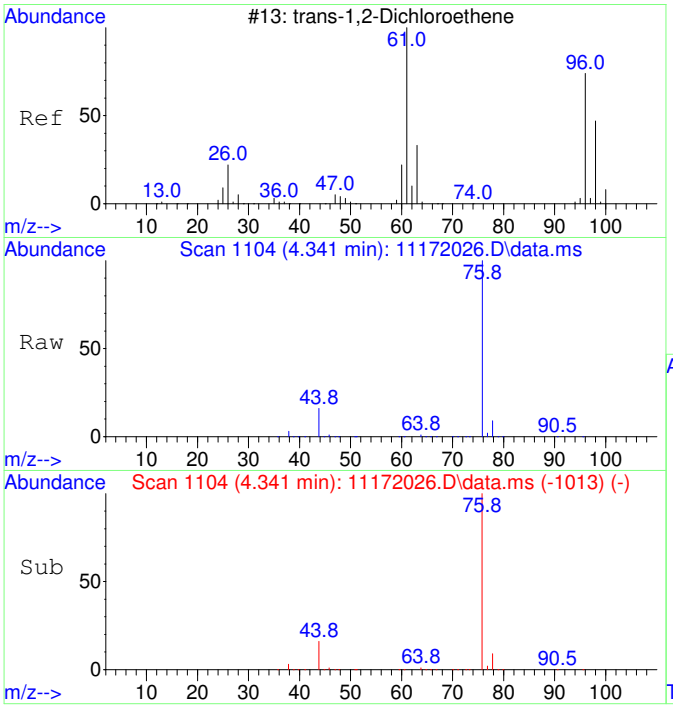


#26
1,1-Dichloroethene SCAN
Concen: 54.35 ug/L
RT: 3.137 min Scan# 821
Delta R.T. 0.060 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 61 Resp: 635

Ion	Ratio	Lower	Upper
61	100		
96	34.2	33.1	93.1
98	29.1	11.2	71.2

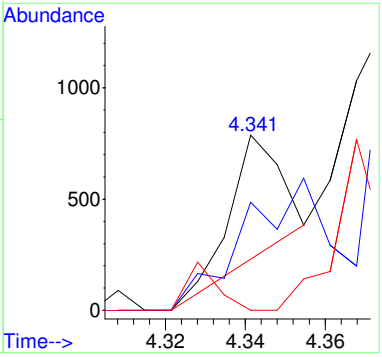


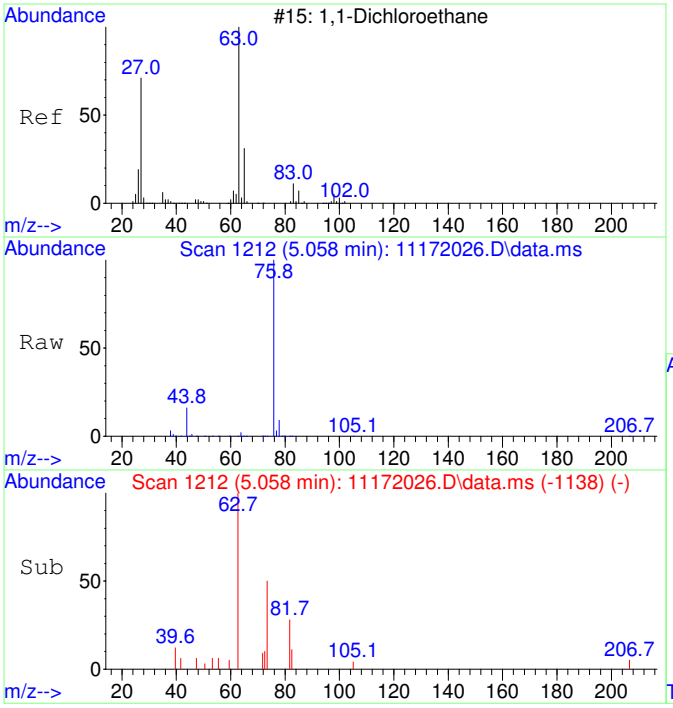


#27
trans-1,2-Dichloroethene SCAN
Concen: 36.52 ug/L
RT: 4.341 min Scan# 1104
Delta R.T. -0.007 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 61 Resp: 528

Ion	Ratio	Lower	Upper
61	100		
96	116.9	49.0	109.0#
98	0.0	20.5	80.5#

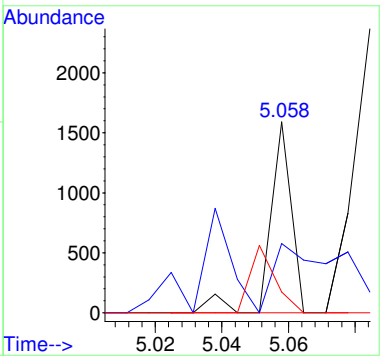


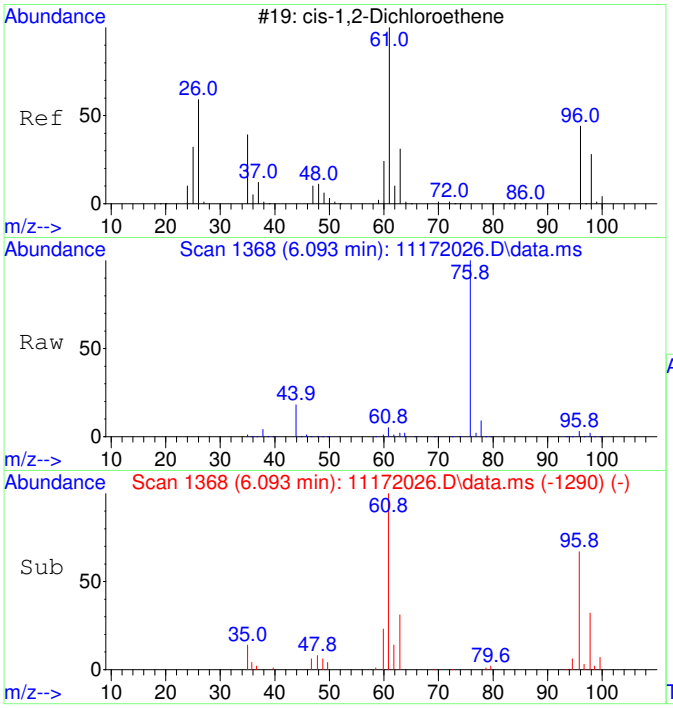


#28
1,1-Dichloroethane SCAN
Concen: 41.53 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.007 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 63 Resp: 695

Ion	Ratio	Lower	Upper
63	100		
65	46.5	1.3	61.3
83	42.2	0.0	45.9

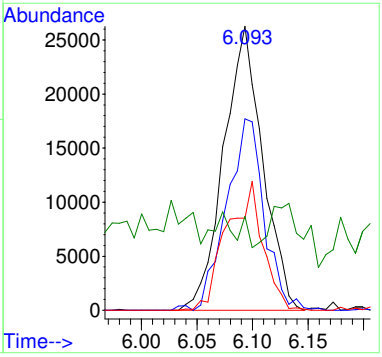


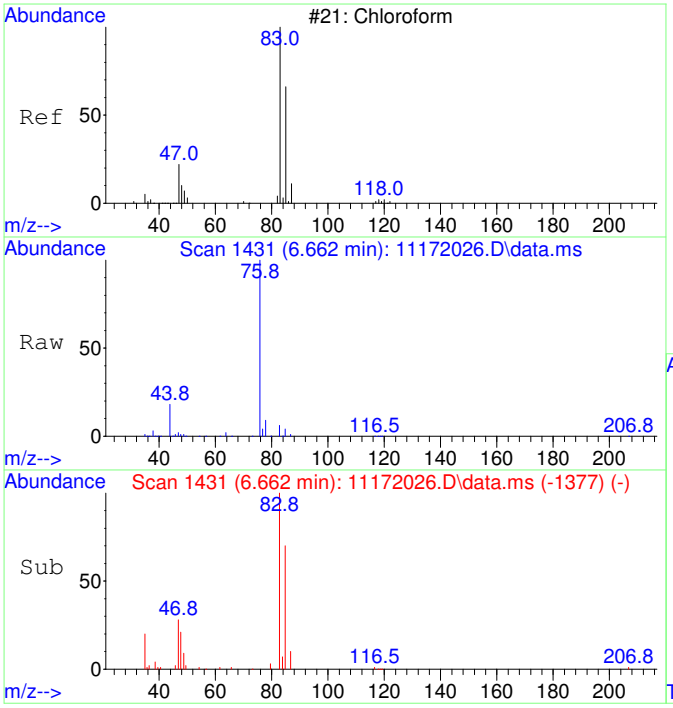


#29
cis-1,2-Dichloroethene SCAN
Concen: 3580.91 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 61 Resp: 64198

Ion	Ratio	Lower	Upper
61	100		
96	65.2	39.9	99.9
98	41.9	13.5	73.5
64	0.0	4.5	64.5#

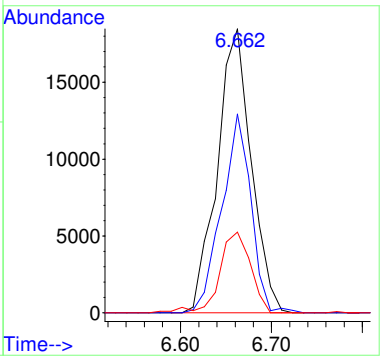


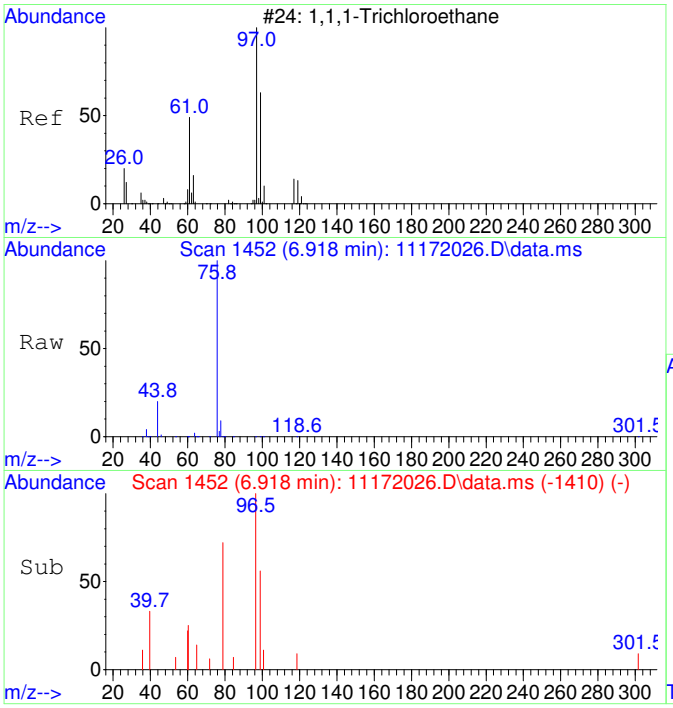


#30
Chloroform SCAN
Concen: 2471.81 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 83 Resp: 48065

Ion	Ratio	Lower	Upper
83	100		
85	60.2	34.6	94.6
47	26.0	0.0	53.4

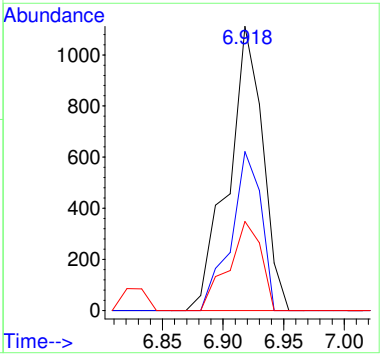


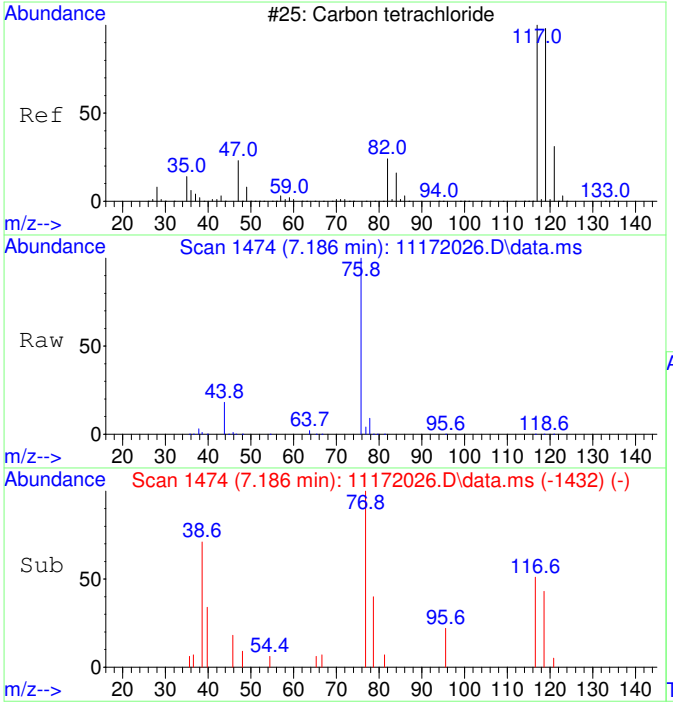


#31
1,1,1-Trichloroethane SCAN
Concen: 124.83 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 97 Resp: 2212

Ion	Ratio	Lower	Upper
97	100		
99	48.9	43.6	103.6
61	29.7	18.0	78.0

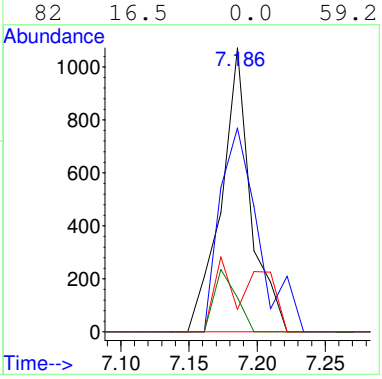


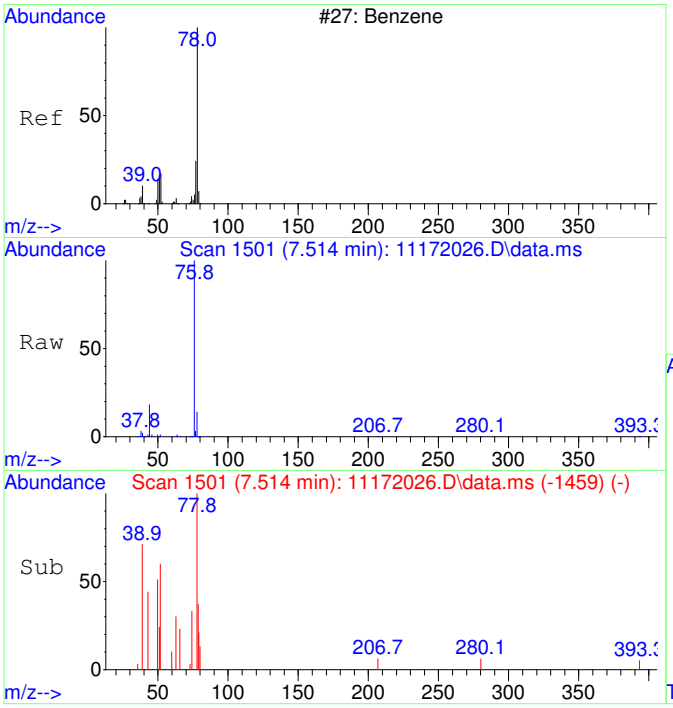


#32
Carbon tetrachloride SCAN
Concen: 87.81 ug/L
RT: 7.186 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:117 Resp: 1623

Ion	Ratio	Lower	Upper
117	100		
119	93.7	75.5	135.5
121	36.8	0.0	58.8
82	16.5	0.0	59.2

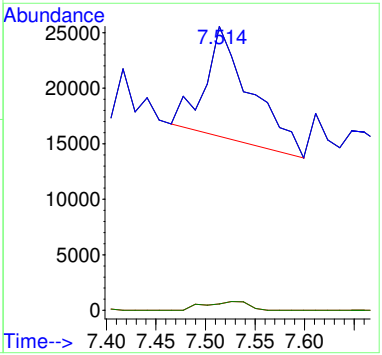


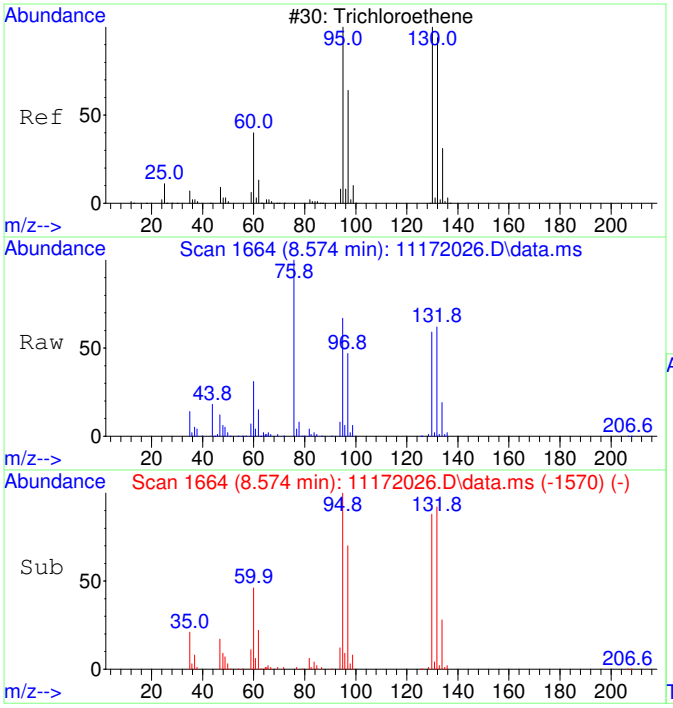


#33
Benzene SCAN
Concen: 635.58 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 78 Resp: 31010

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	7.8	0.0	47.9
51	7.8	0.0	44.1

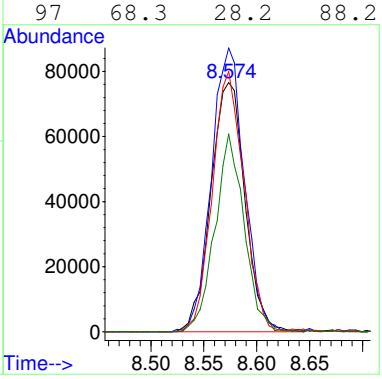


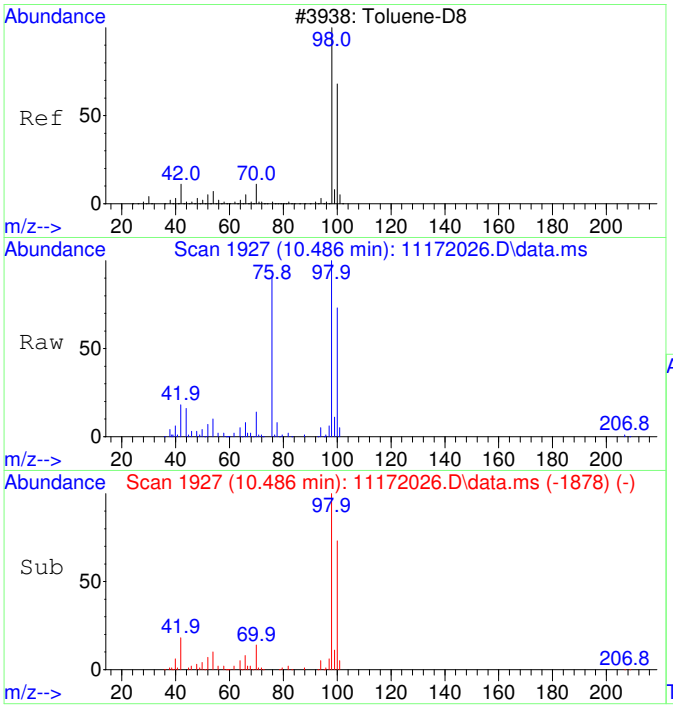


#35
Trichloroethene SCAN
Concen: 12774.87 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:130 Resp: 171283

Ion	Ratio	Lower	Upper
130	100		
95	109.6	60.5	120.5
132	96.6	59.6	119.6
97	68.3	28.2	88.2

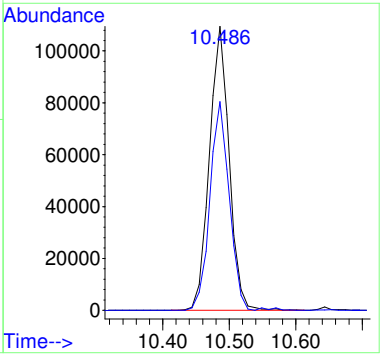


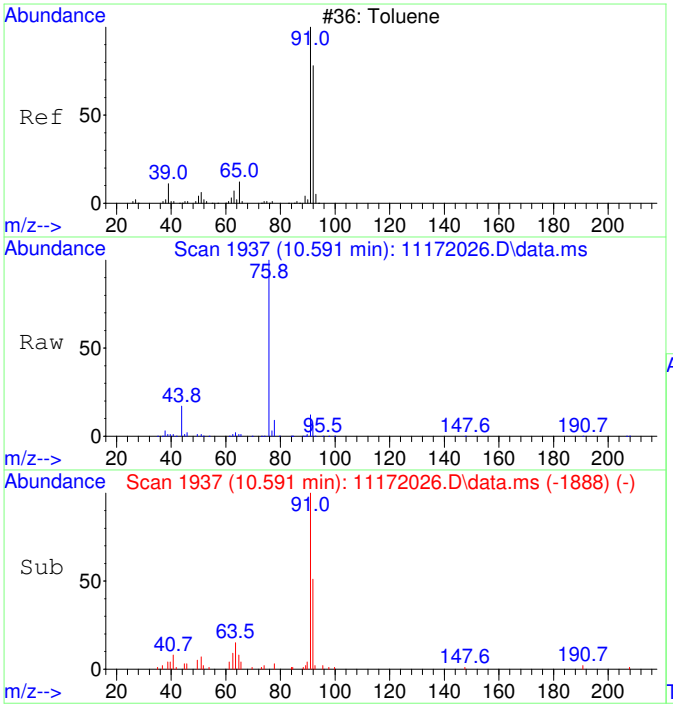


#36
Toluene-d8 SCAN
Concen: 4214.11 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 98 Resp: 226747

Ion	Ratio	Lower	Upper
98	100		
100	71.7	40.0	100.0

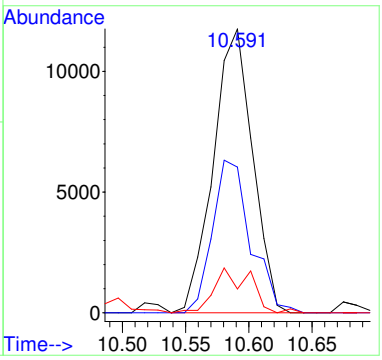


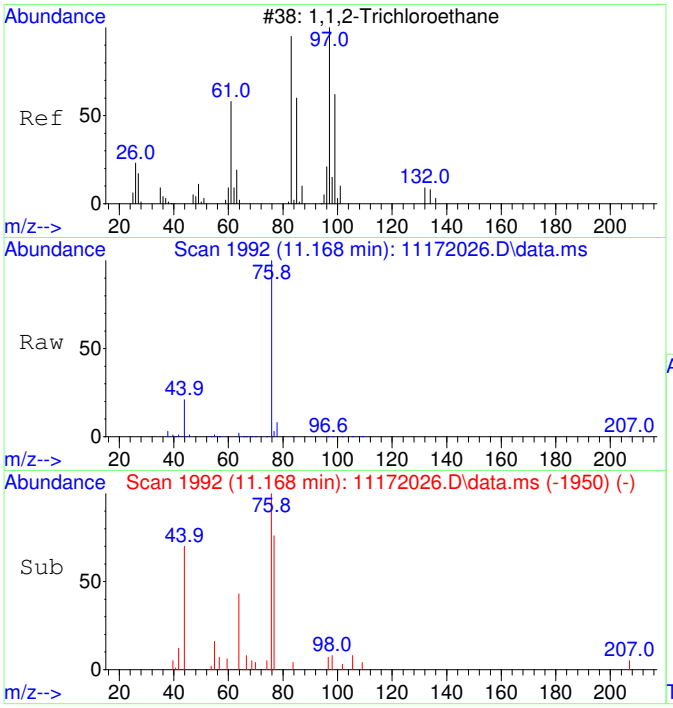


#37
Toluene SCAN
Concen: 371.06 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 25569

Ion	Ratio	Lower	Upper
91	100		
92	52.2	28.3	88.3
65	14.6	0.0	41.0

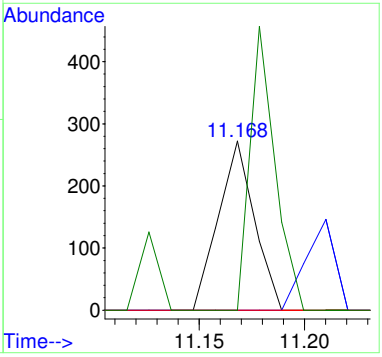


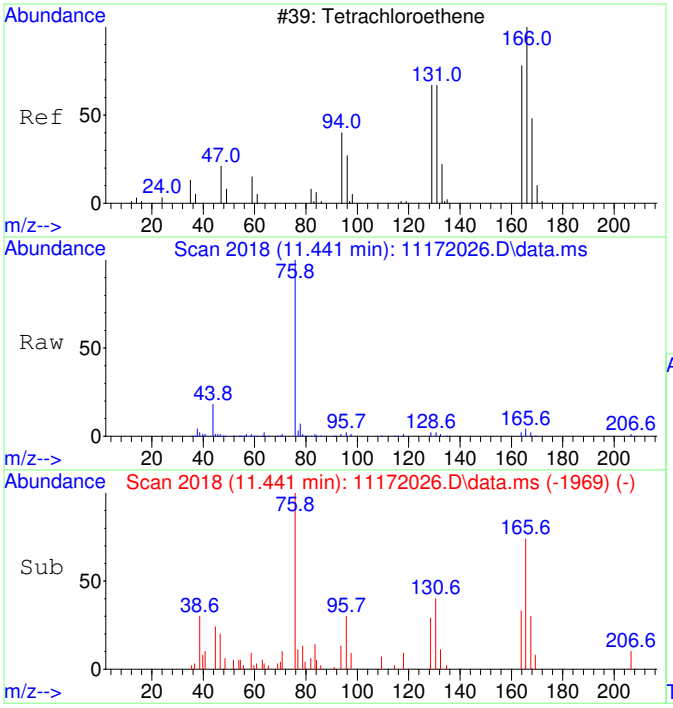


#38
1,1,2-Trichloroethane SCAN
Concen: 20.95 ug/L
RT: 11.168 min Scan# 1992
Delta R.T. -0.063 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 97 Resp: 324

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	116.4	36.7	96.7#

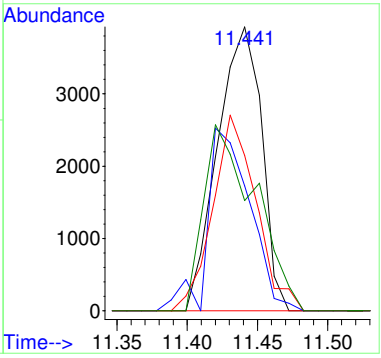


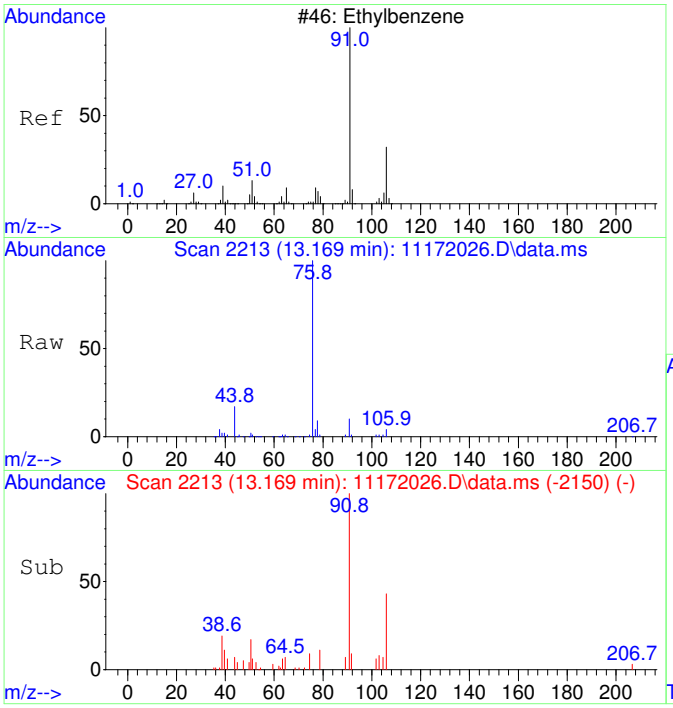


#39
Tetrachloroethene SCAN
Concen: 520.33 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:166 Resp: 8614

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	67.6	38.7	98.7
129	0.0	41.8	101.8#

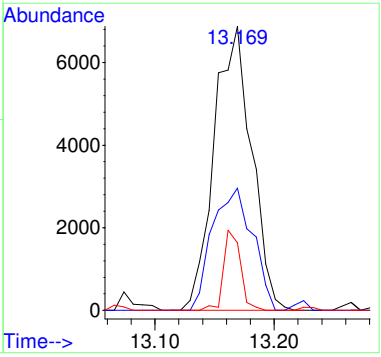


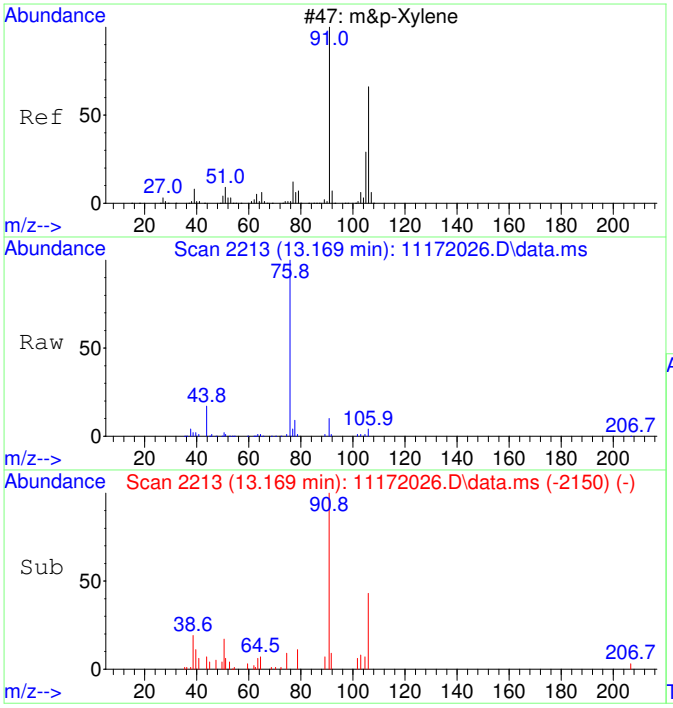


#42
Ethylbenzene SCAN
Concen: 119.84 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 15045

Ion	Ratio	Lower	Upper
91	100		
106	46.3	23.1	83.1
51	12.7	0.0	40.1

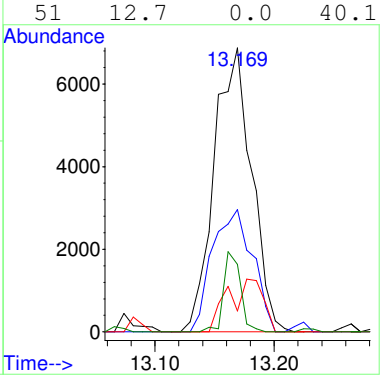


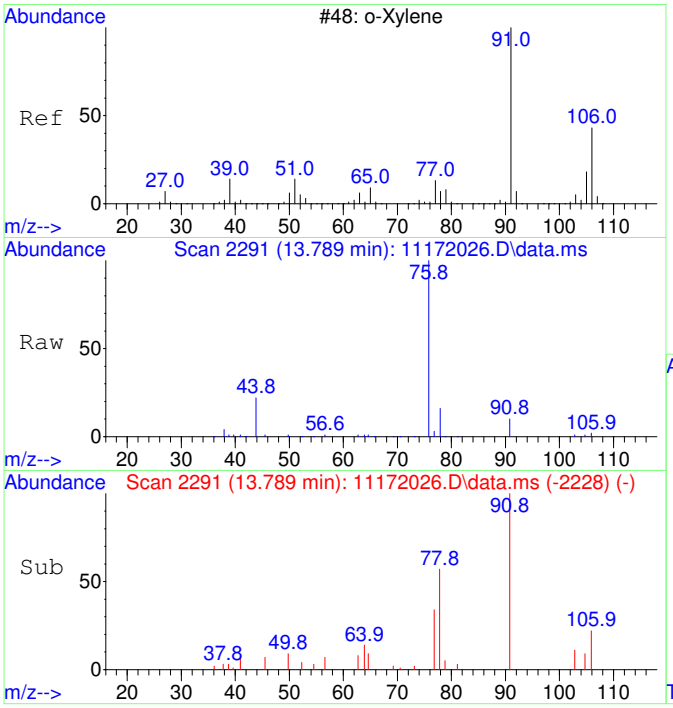


#43
m&p-Xylene SCAN
Concen: 119.84 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 15045

Ion	Ratio	Lower	Upper
91	100		
106	46.3	23.1	83.1
105	17.4	0.0	54.7
51	12.7	0.0	40.1

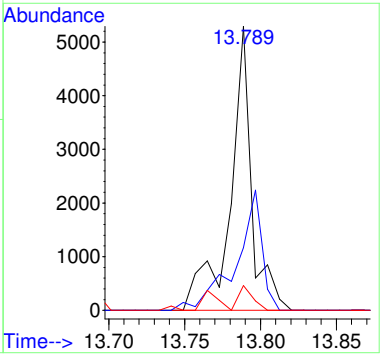


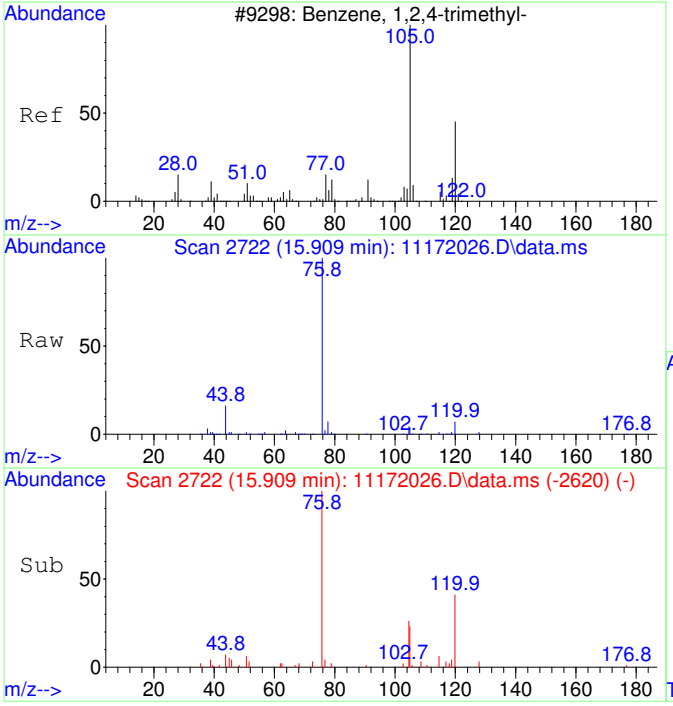


#44
o-Xylene SCAN
Concen: 77.83 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion: 91 Resp: 5230

Ion	Ratio	Lower	Upper
91	100		
106	51.0	18.0	78.0
105	5.8	0.0	56.6

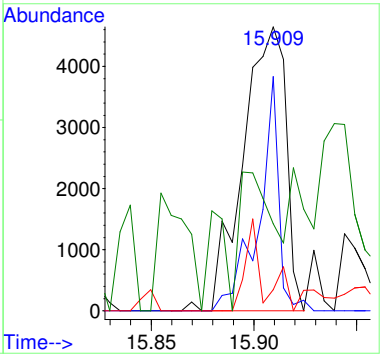




#47
1,2,4-Trimethylbenzene SCAN
Concen: 93.18 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.005 min
Lab File: 11172026.D
Acq: 17 Nov 2020 17:46

Tgt Ion:105 Resp: 6752

Ion	Ratio	Lower	Upper
105	100		
120	38.3	16.9	76.9
119	0.0	0.0	41.9
77	7.4	0.0	42.3



2011017-16

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172027.D
Acq On : 17 Nov 2020 18:09
InstName : AG5975C
Operator : TD
Sample : 2011017-16
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 18 06:17:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

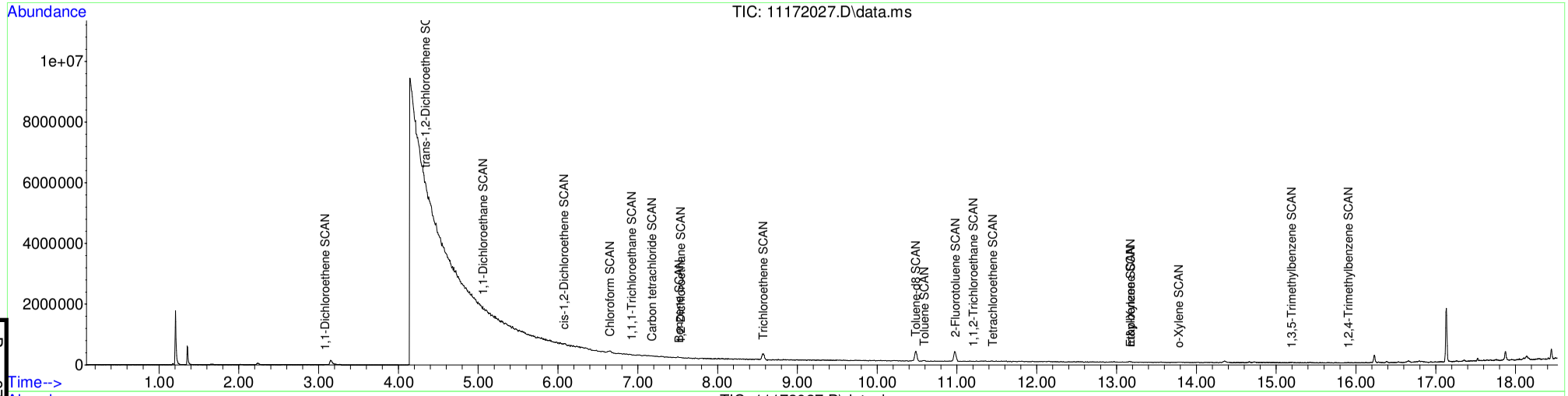
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	552372	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	477068	4411.87	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.24%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	1639	74.31	ug/L	83
3] trans-1,2-Dichloroethene	4.343	61	1712	67.18	ug/L	65
4] 1,1-Dichloroethane	5.066	63	1620	51.07	ug/L	54
5] cis-1,2-Dichloroethene	6.074	61	29968	894.95	ug/L	99
6] Chloroform	6.652	83	119773	3494.59	ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	2913	78.26	ug/L	99
8] Carbon tetrachloride	7.175	117	3024	86.32	ug/L	99
9] Benzene	7.503	78	23041	245.51	ug/L	78
11] Trichloroethene	8.569	130	146010	5167.15	ug/L	94
13] Toluene	10.582	91	52460	380.53	ug/L	98
14] 1,1,2-Trichloroethane	11.169	97	972	32.36	ug/L #	22
15] Tetrachloroethene	11.432	166	5137	128.76	ug/L	99
18] Ethylbenzene	12.972	91	15669	93.38	ug/L	96
19] m&p-Xylene	13.162	91	36280	276.63	ug/L	95
20] o-Xylene	13.782	91	13524	96.52	ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.873	83	1778	28.63	ug/L #	24
22] 1,3,5-Trimethylbenzene	15.350	105	4135	27.73	ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	13615	87.89	ug/L	93
25) 2-Fluorotoluene SCAN	10.979	109	256449	4762.63	ug/L	96
26) 1,1-Dichloroethene SCAN	3.077	61	460	40.23	ug/L #	25
27) trans-1,2-Dichloroethe...	4.335	61	1093	77.24	ug/L #	61
28) 1,1-Dichloroethane SCAN	5.064	63	341	20.82	ug/L #	50
29) cis-1,2-Dichloroethene...	6.073	61	17853	1017.51	ug/L #	83
30) Chloroform SCAN	6.650	83	67358	3539.42	ug/L	90
31) 1,1,1-Trichloroethane ...	6.918	97	1755	101.20	ug/L #	59
32) Carbon tetrachloride SCAN	7.173	117	1306	72.19	ug/L #	64
33) Benzene SCAN	7.514	78	19094	399.87	ug/L	99
34) 1,2-Dichloroethane SCAN	7.538	62	365	20.70	ug/L #	59
35) Trichloroethene SCAN	8.568	130	69525	5298.33	ug/L	84
36) Toluene-d8 SCAN	10.486	98	231382	4393.90	ug/L	95
37) Toluene SCAN	10.591	91	27787	412.03	ug/L	96
38) 1,1,2-Trichloroethane ...	11.200	97	653	43.14	ug/L #	38
39) Tetrachloroethene SCAN	11.441	166	2717	167.70	ug/L #	53
42) Ethylbenzene SCAN	13.169	91	18485	150.45	ug/L	89
43) m&p-Xylene SCAN	13.169	91	18485	150.45	ug/L	88
44) o-Xylene SCAN	13.781	91	8601	130.78	ug/L	86
46) 1,3,5-Trimethylbenzene...	15.194	105	4625	66.73	ug/L	90
47) 1,2,4-Trimethylbenzene...	15.904	105	6014	84.80	ug/L #	85

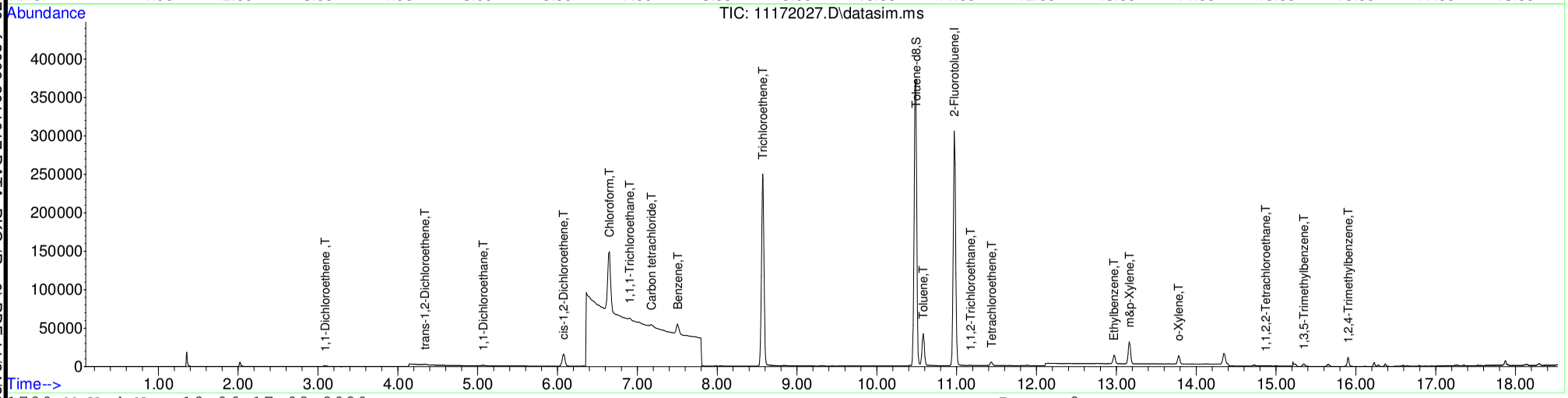
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172027.D
Acq On : 17 Nov 2020 18:09
InstName : AG5975C
Operator : TD
Sample : 2011017-16
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 18 06:17:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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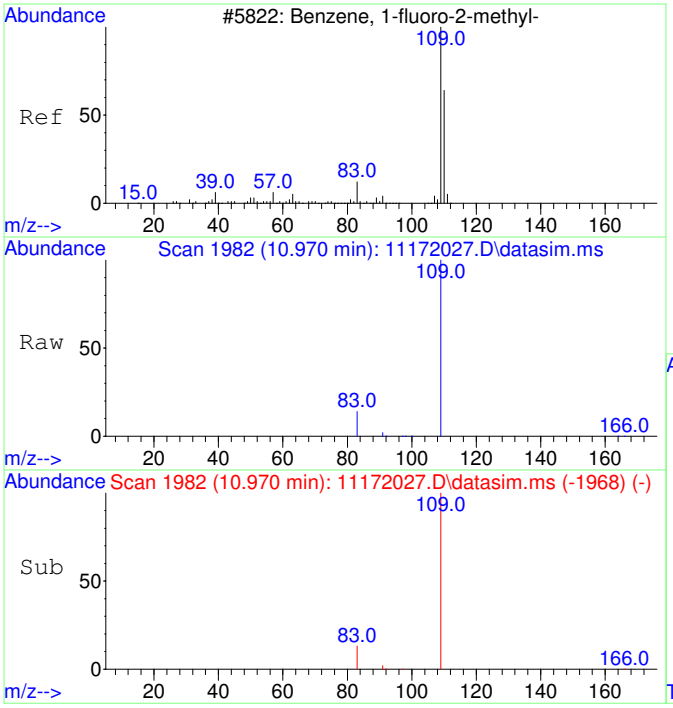
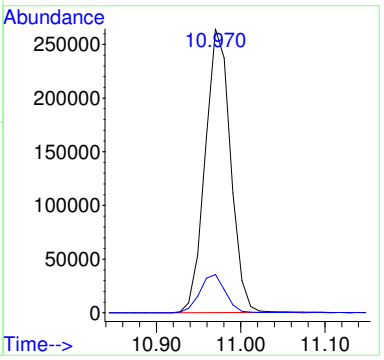
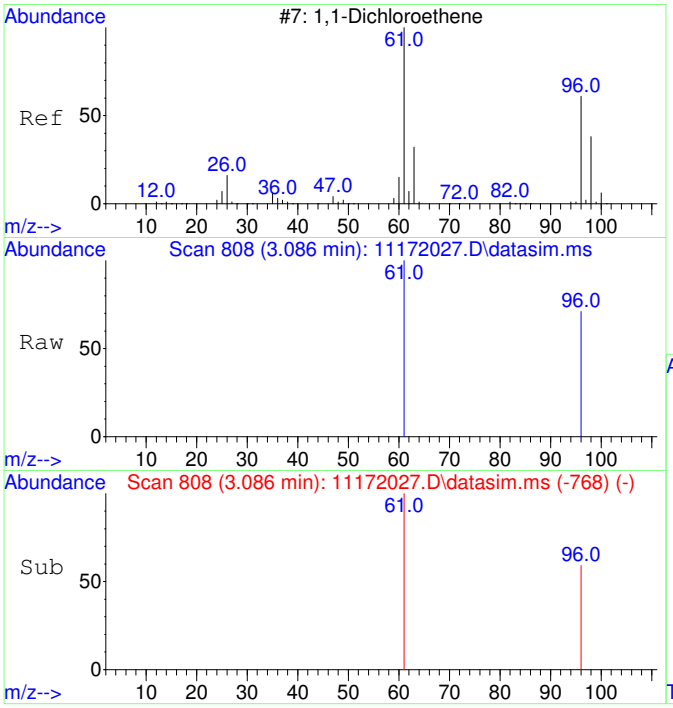


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:109 Resp: 552372

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

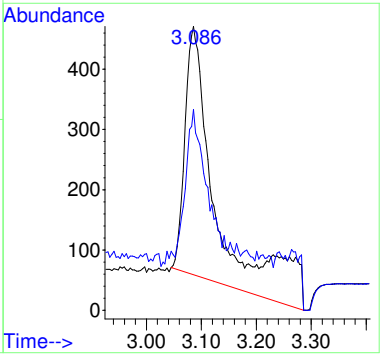




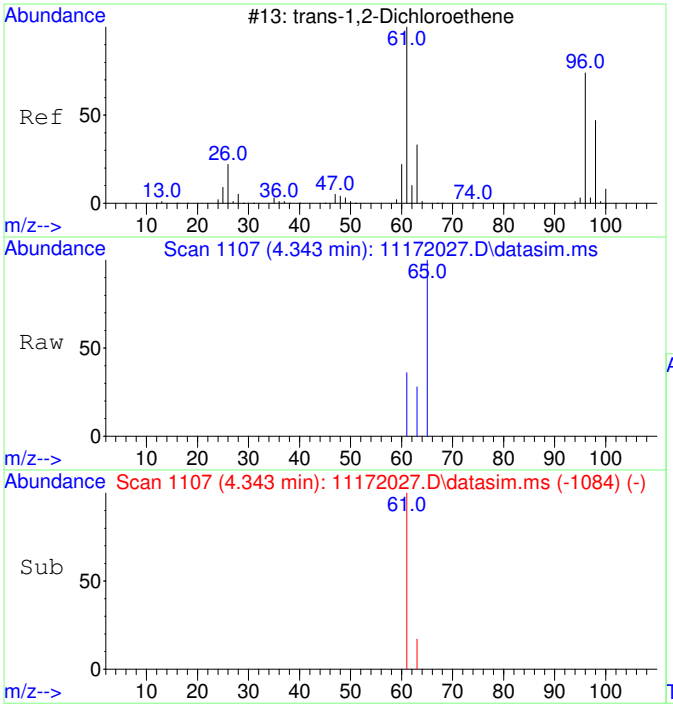
#2
1,1-Dichloroethene
Concen: 74.31 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 61 Resp: 1639

Ion	Ratio	Lower	Upper
61	100		
96	53.8	37.2	97.2



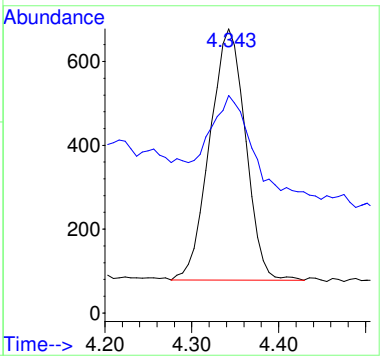
Before MI:
IMPROPER
BASELINE

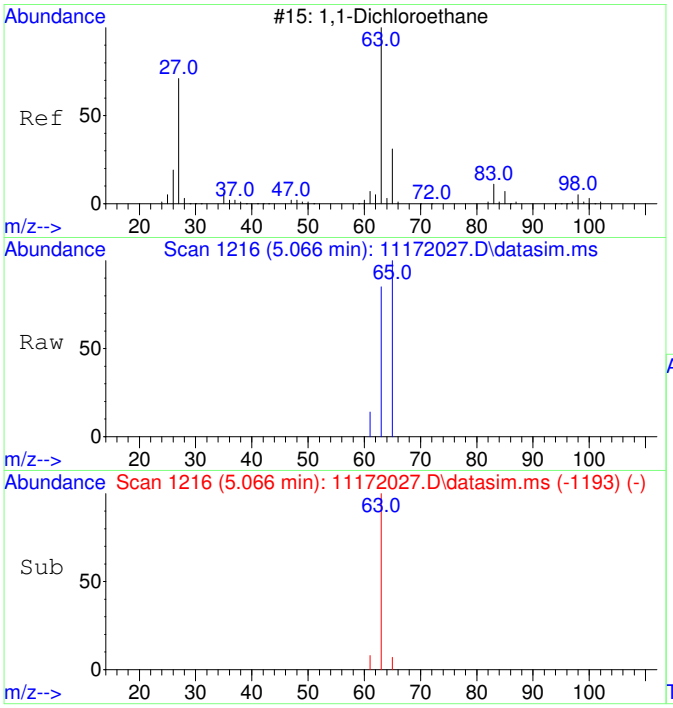


#3
trans-1,2-Dichloroethene
Concen: 67.18 ug/L
RT: 4.343 min Scan# 1107
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 61 Resp: 1712

Ion	Ratio	Lower	Upper
61	100		
63	52.3	2.4	62.4

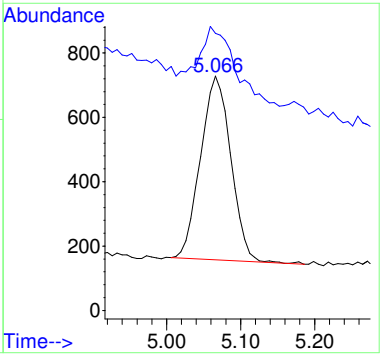


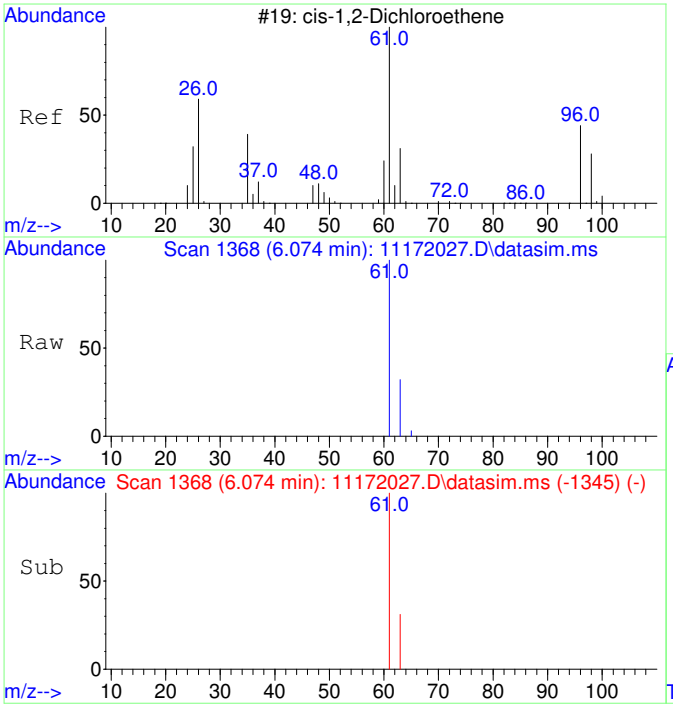


#4
1,1-Dichloroethane
Concen: 51.07 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 63 Resp: 1620

Ion	Ratio	Lower	Upper
63	100		
65	57.4	1.8	61.8

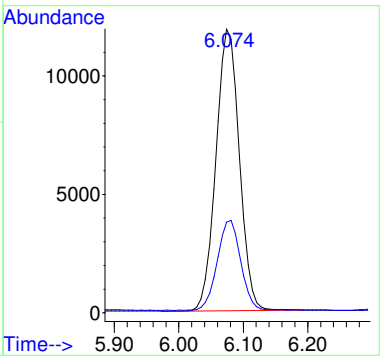


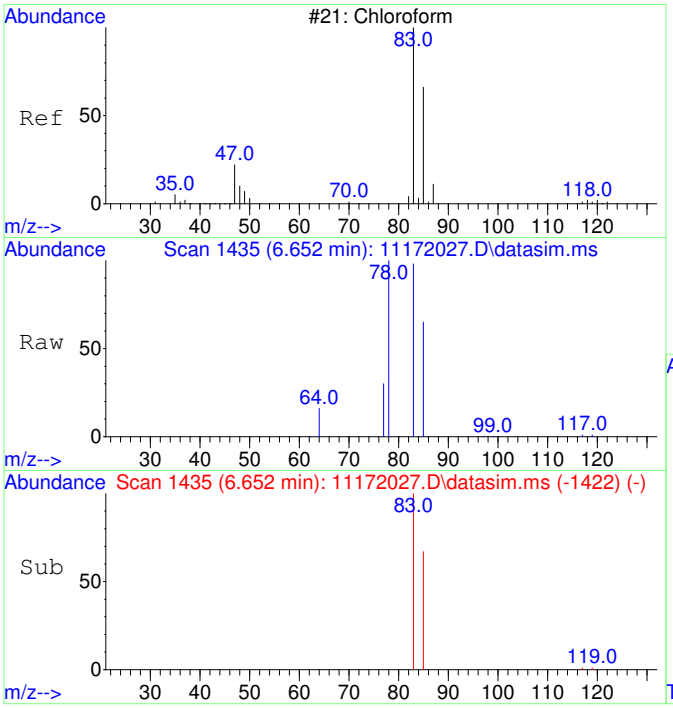


#5
cis-1,2-Dichloroethene
Concen: 894.95 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 61 Resp: 29968

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

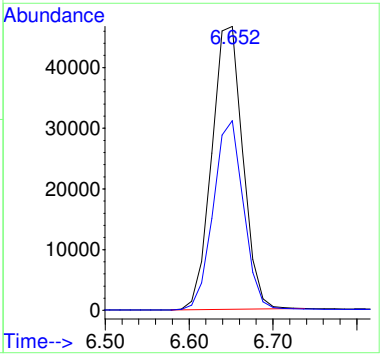


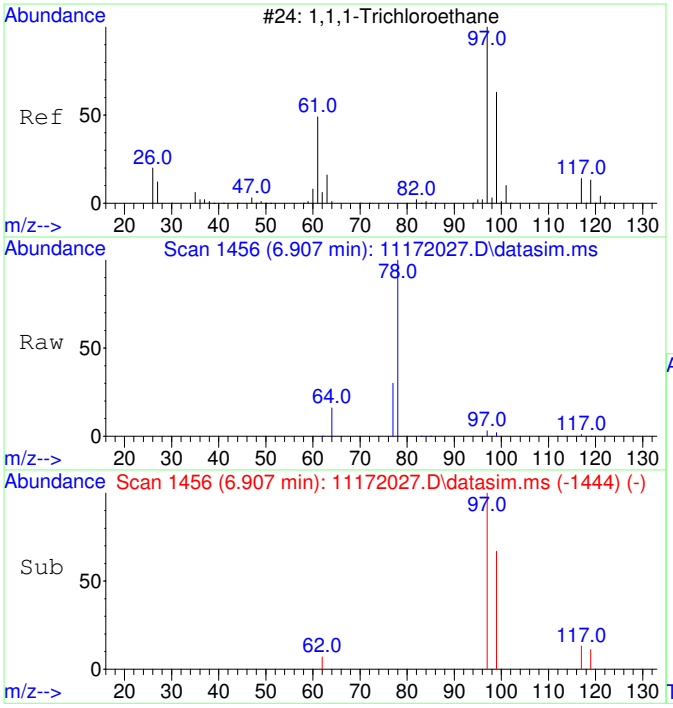


#6
Chloroform
Concen: 3494.59 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 83 Resp: 119773

Ion	Ratio	Lower	Upper
83	100		
85	64.8	35.1	95.1

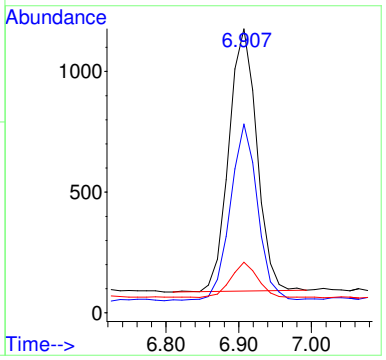


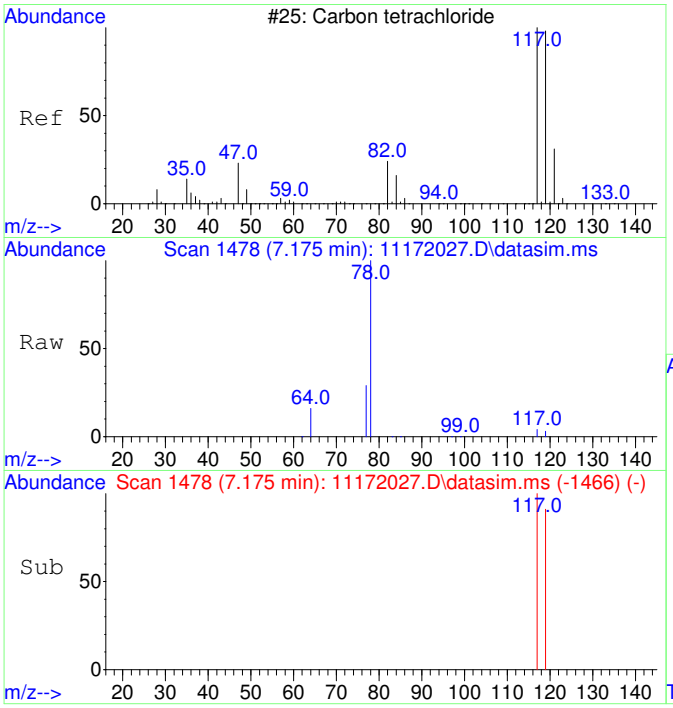


#7
1,1,1-Trichloroethane
Concen: 78.26 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 97 Resp: 2913

Ion	Ratio	Lower	Upper
97	100		
99	65.3	34.6	94.6
117	12.8	0.0	43.2

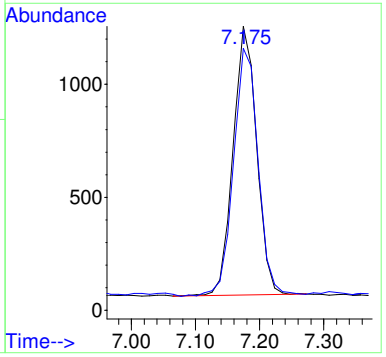


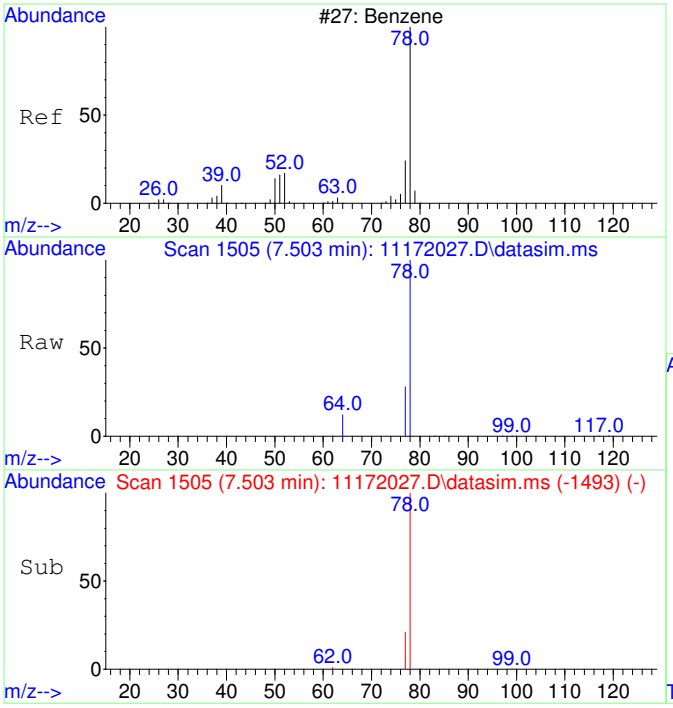


#8
Carbon tetrachloride
Concen: 86.32 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:117 Resp: 3024

Ion	Ratio	Lower	Upper
117	100		
119	95.9	66.4	126.4

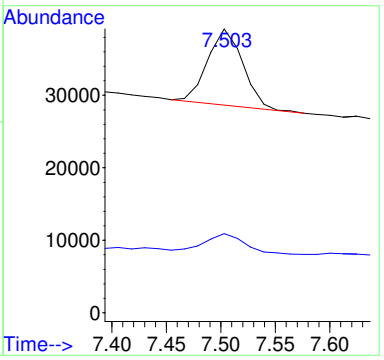


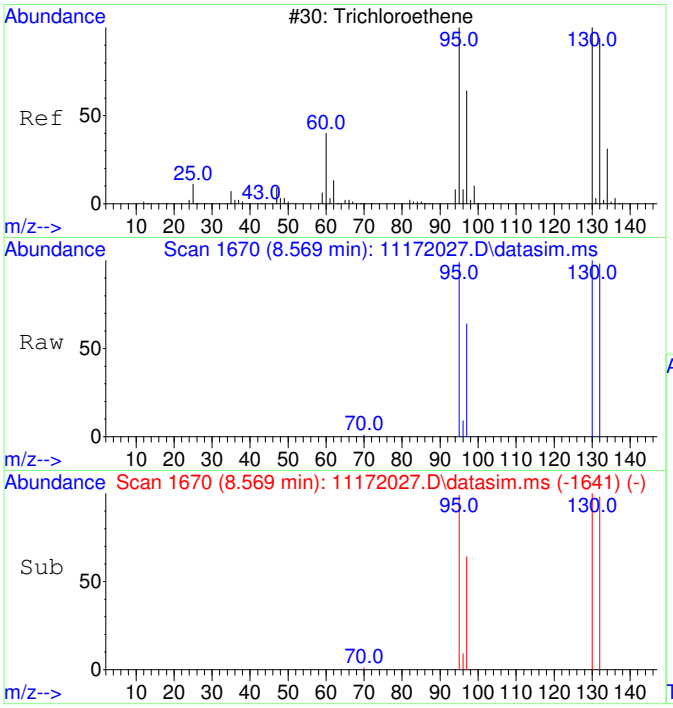


#9
Benzene
Concen: 245.51 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 78 Resp: 23041

Ion	Ratio	Lower	Upper
78	100		
77	34.0	0.0	53.2

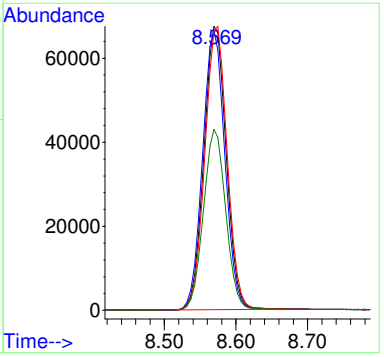


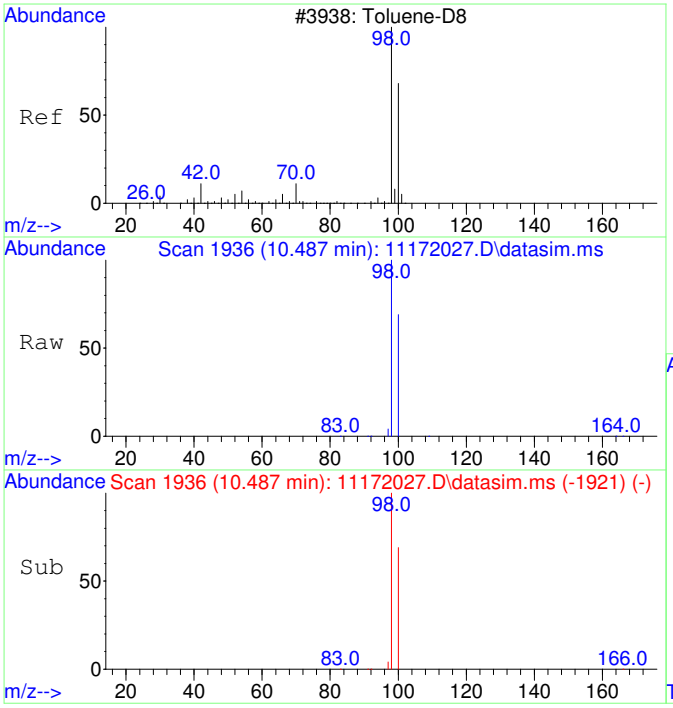


#11
Trichloroethene
Concen: 5167.15 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:130 Resp: 146010

Ion	Ratio	Lower	Upper
130	100		
95	98.3	60.7	120.7
132	99.9	76.0	116.0
97	63.1	38.6	78.6

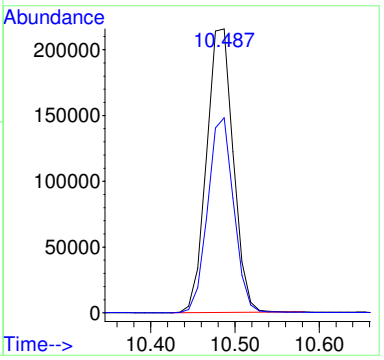


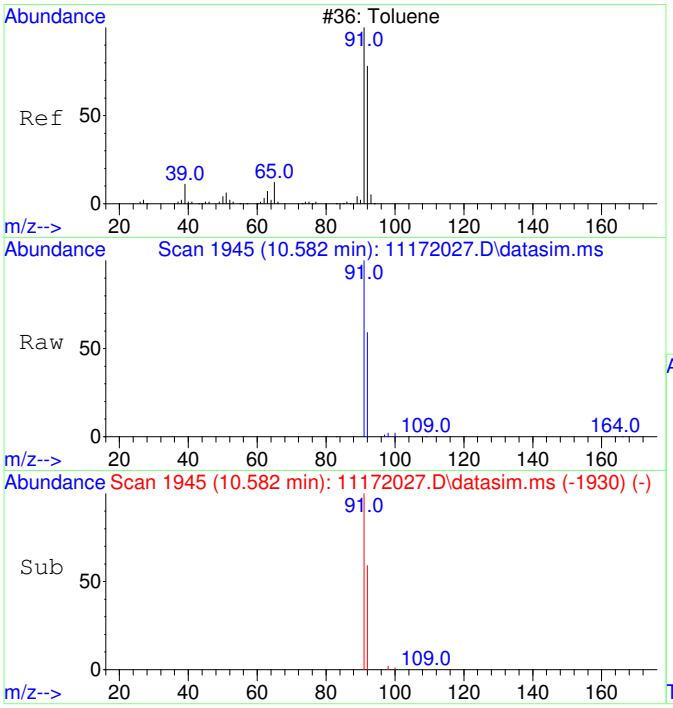


#12
Toluene-d8
Concen: 4411.87 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 98 Resp: 477068

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

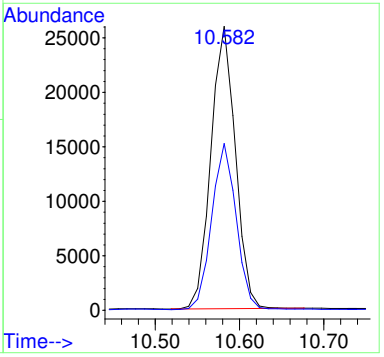


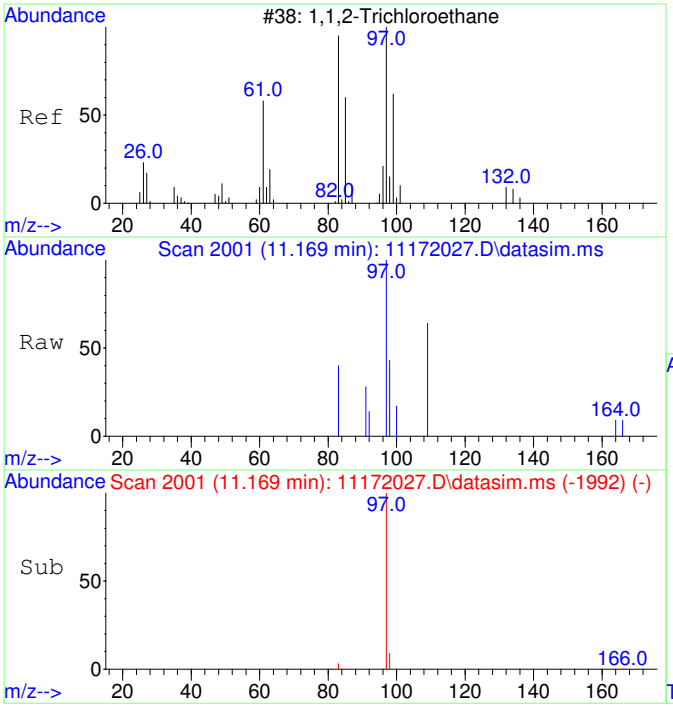


#13
Toluene
Concen: 380.53 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 52460

Ion	Ratio	Lower	Upper
91	100		
92	58.3	29.9	89.9

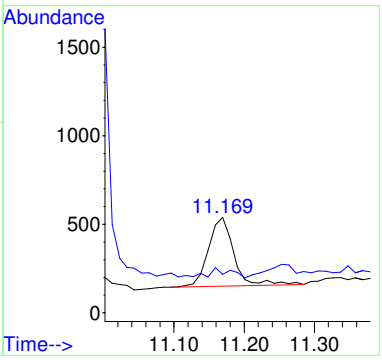


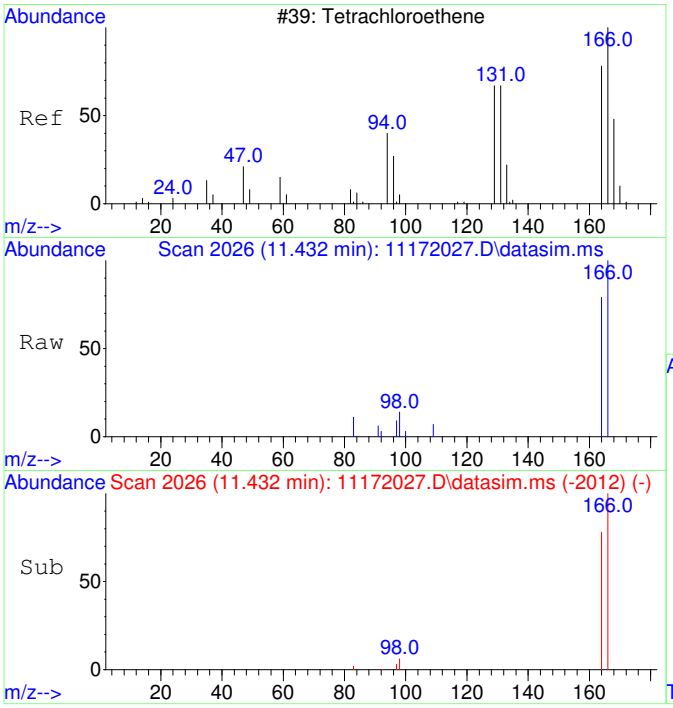


#14
1,1,2-Trichloroethane
Concen: 32.36 ug/L
RT: 11.169 min Scan# 2001
Delta R.T. -0.053 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 97 Resp: 972

Ion	Ratio	Lower	Upper
97	100		
83	11.6	51.2	111.2#

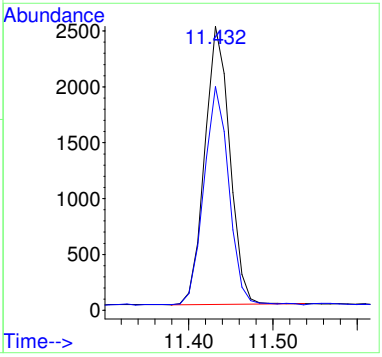


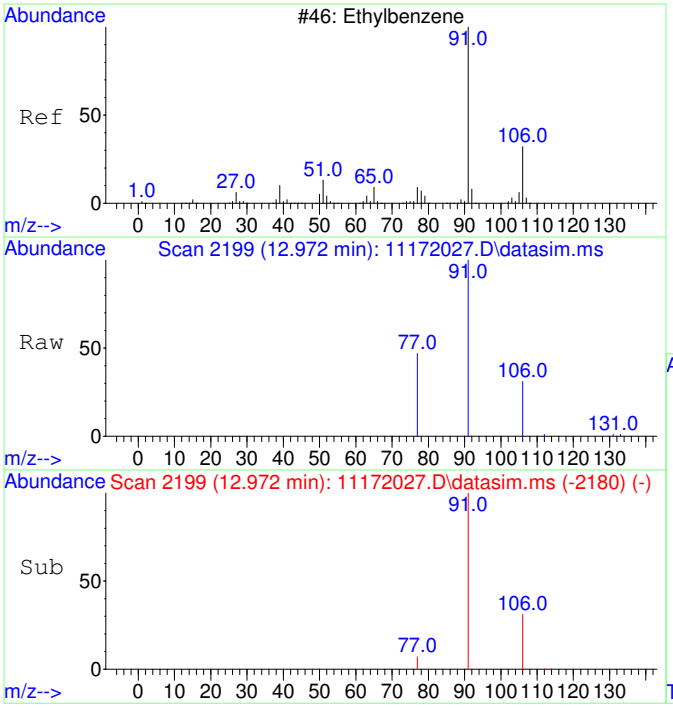


#15
Tetrachloroethene
Concen: 128.76 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:166 Resp: 5137

Ion	Ratio	Lower	Upper
166	100		
164	78.8	47.8	107.8

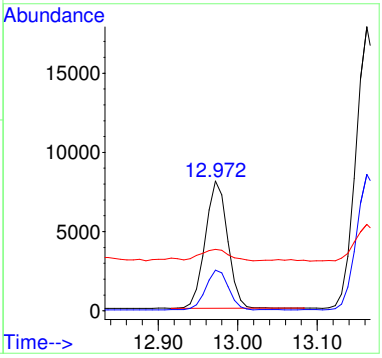


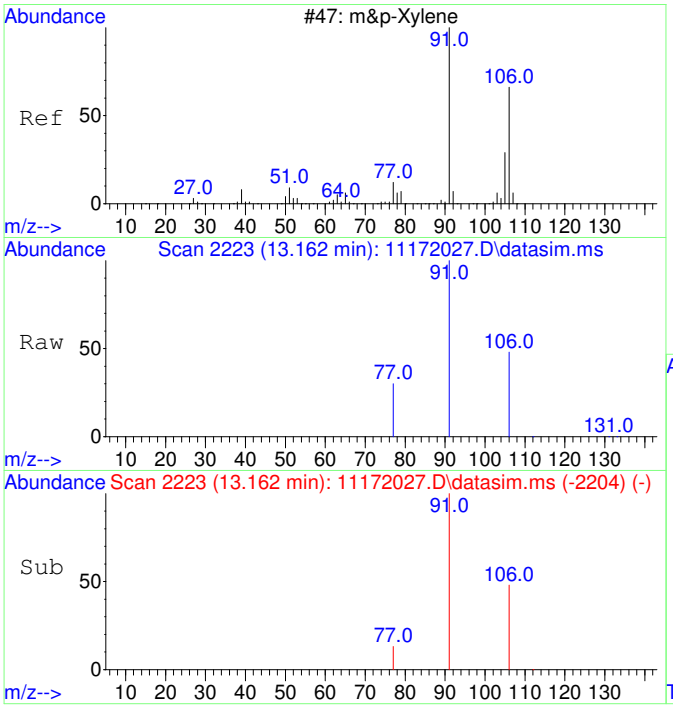


#18
Ethylbenzene
Concen: 93.38 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 15669

Ion	Ratio	Lower	Upper
91	100		
106	31.5	3.0	63.0
77	11.6	0.0	38.2

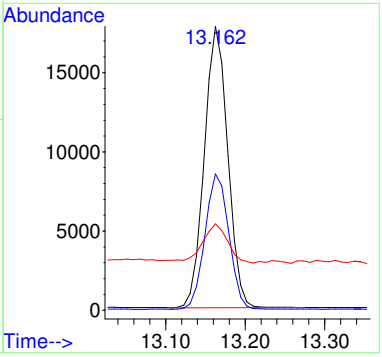


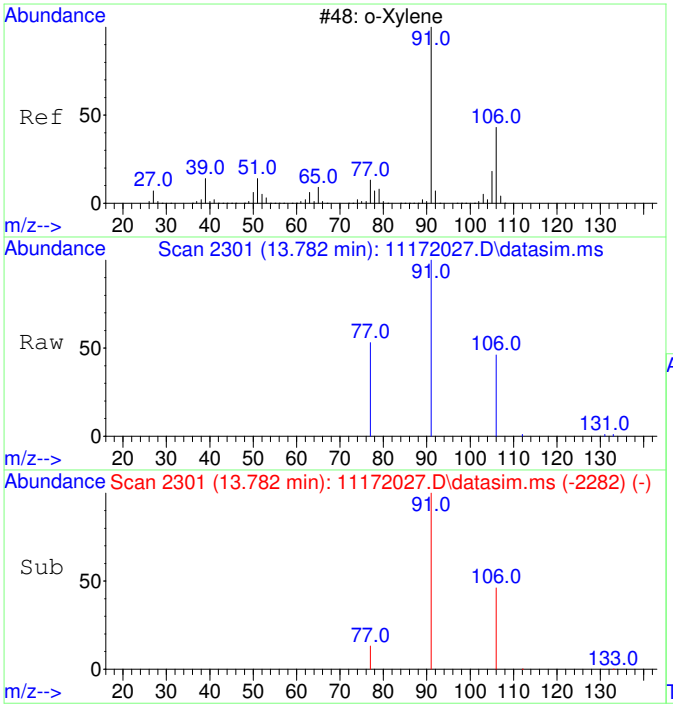


#19
m&p-Xylene
Concen: 276.63 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 36280

Ion	Ratio	Lower	Upper
91	100		
106	49.0	22.2	82.2
77	15.5	0.0	42.4

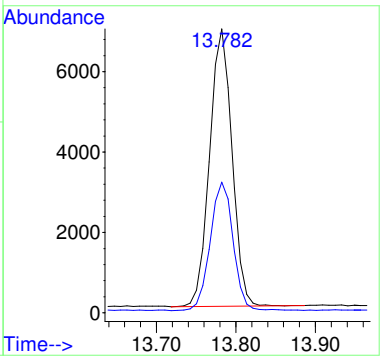


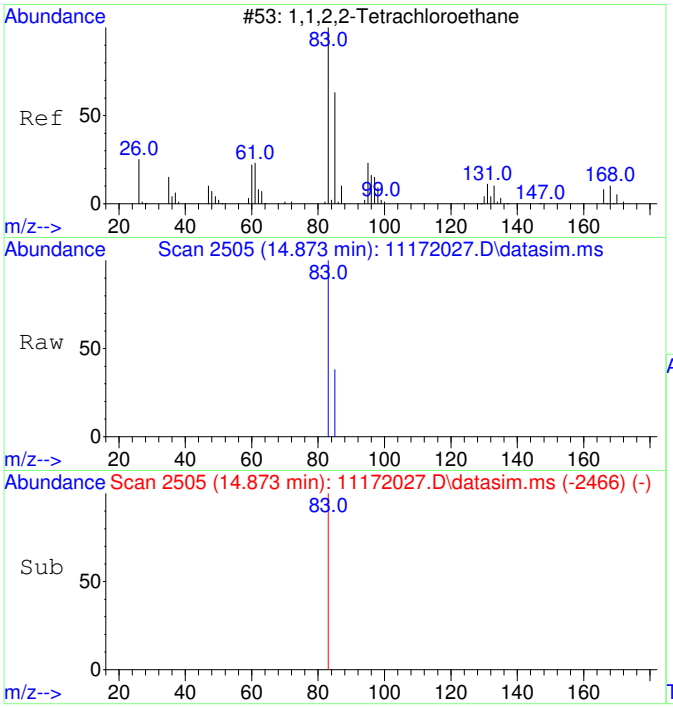


#20
o-Xylene
Concen: 96.52 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 13524

Ion	Ratio	Lower	Upper
91	100		
106	47.3	19.2	79.2

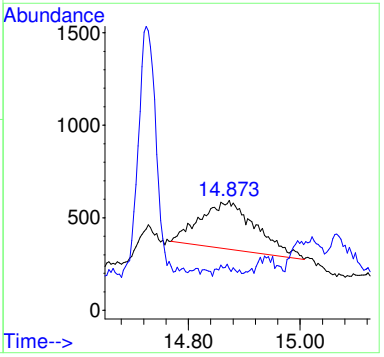


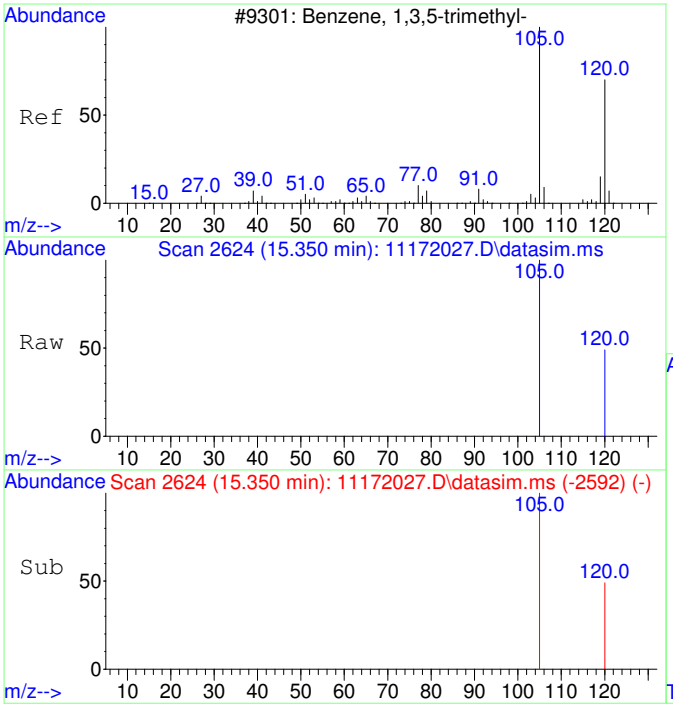


#21
1,1,2,2-Tetrachloroethane
Concen: 28.63 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. -0.004 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 83 Resp: 1778

Ion	Ratio	Lower	Upper
83	100		
85	4.8	34.8	94.8#

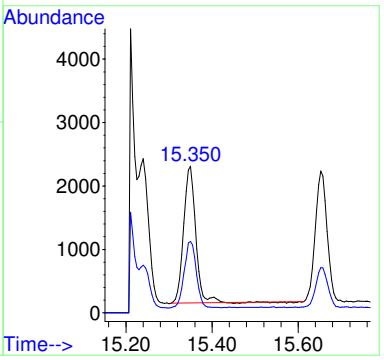


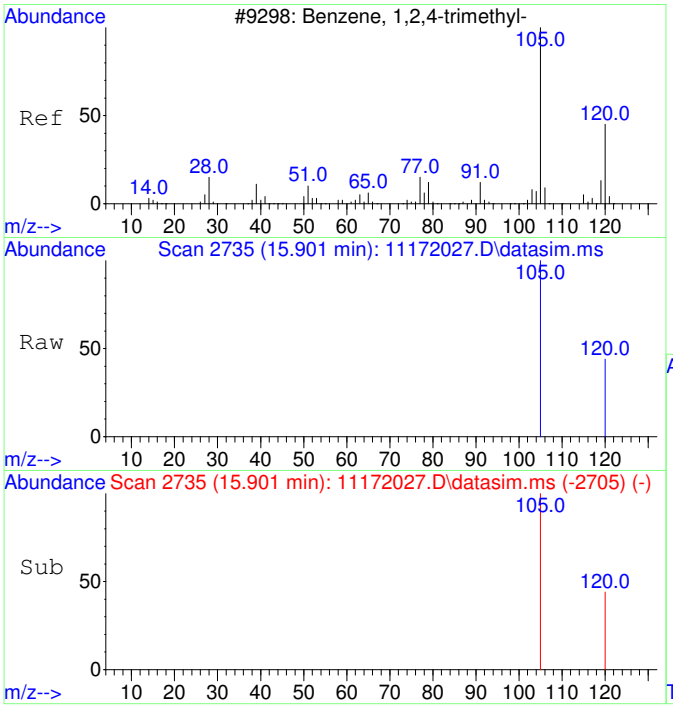


#22
1,3,5-Trimethylbenzene
Concen: 27.73 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:105 Resp: 4135

Ion	Ratio	Lower	Upper
105	100		
120	48.2	21.1	81.1

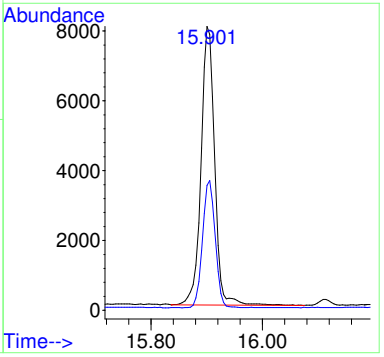


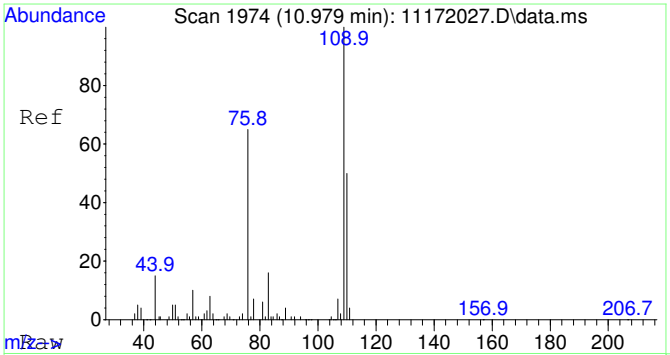


#23
1,2,4-Trimethylbenzene
Concen: 87.89 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:105 Resp: 13615

Ion	Ratio	Lower	Upper
105	100		
120	42.2	17.2	77.2

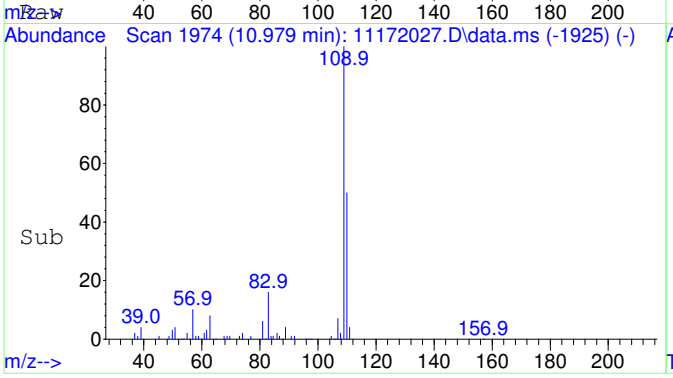


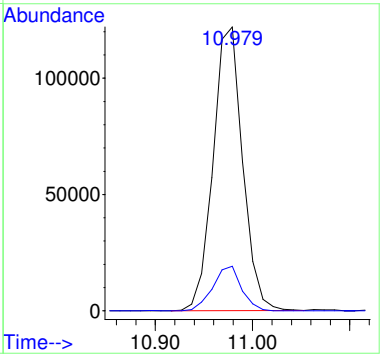


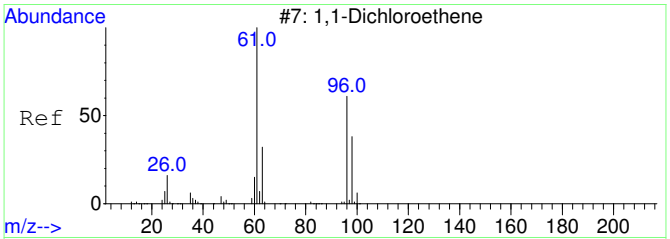
#25
2-Fluorotoluene SCAN
Concen: 4762.63 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:109 Resp: 256449

Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	43.8



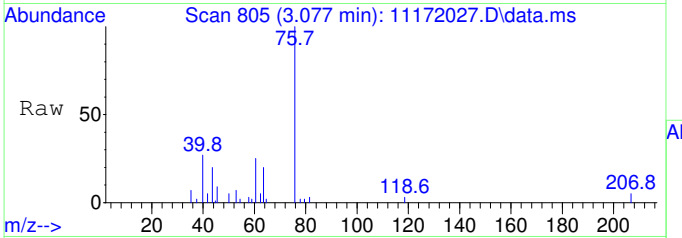


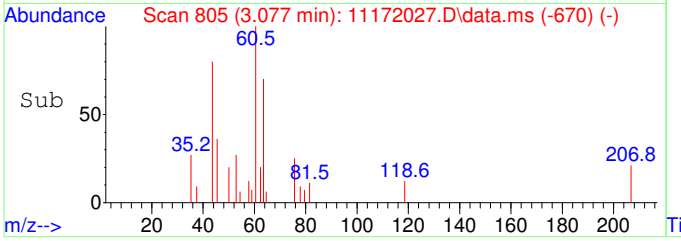


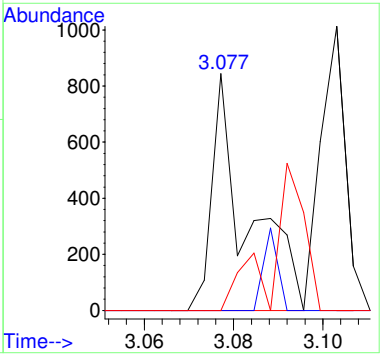
#26
1,1-Dichloroethene SCAN
Concen: 40.23 ug/L
RT: 3.077 min Scan# 805
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

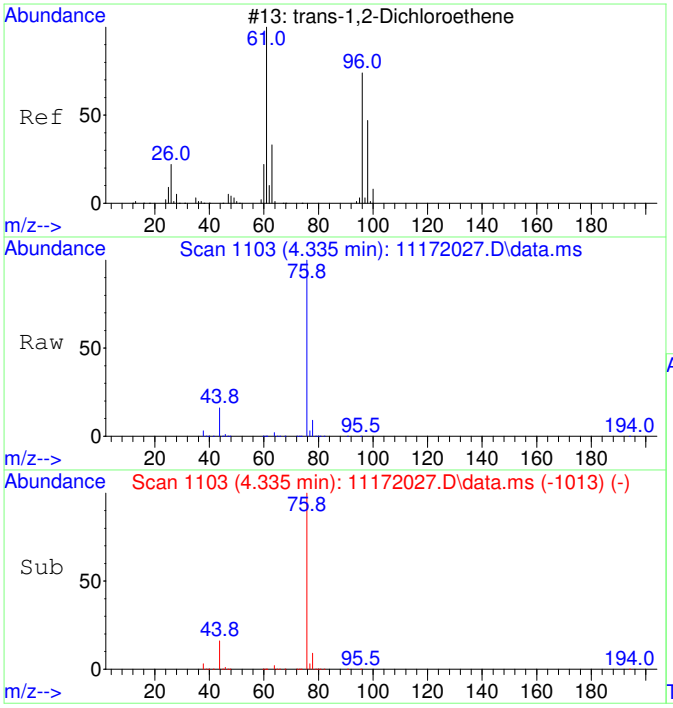
Tgt Ion: 61 Resp: 460

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.1	93.1#
98	0.0	11.2	71.2#





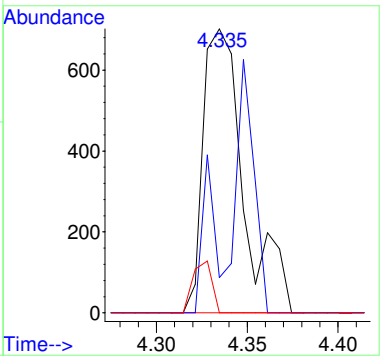


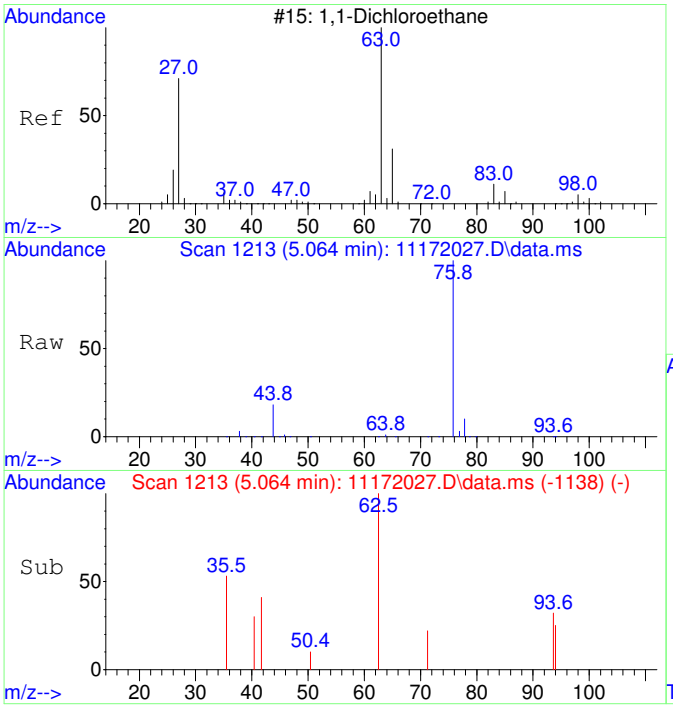


#27
trans-1,2-Dichloroethene SCAN
Concen: 77.24 ug/L
RT: 4.335 min Scan# 1103
Delta R.T. -0.013 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 61 Resp: 1093

Ion	Ratio	Lower	Upper
61	100		
96	56.4	49.0	109.0
98	8.6	20.5	80.5#

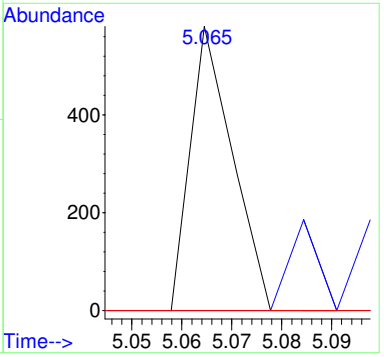


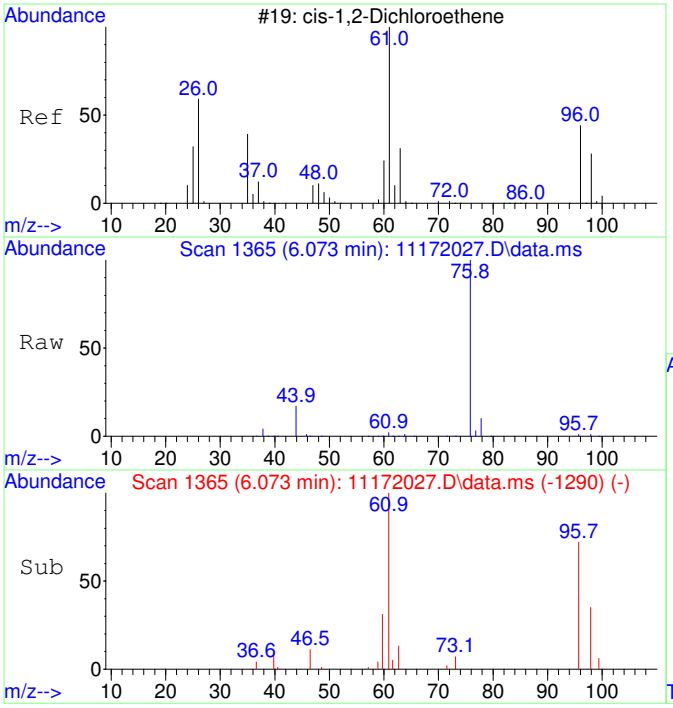


#28
1,1-Dichloroethane SCAN
Concen: 20.82 ug/L
RT: 5.064 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 63 Resp: 341

Ion	Ratio	Lower	Upper
63	100		
65	0.0	1.3	61.3#
83	0.0	0.0	45.9

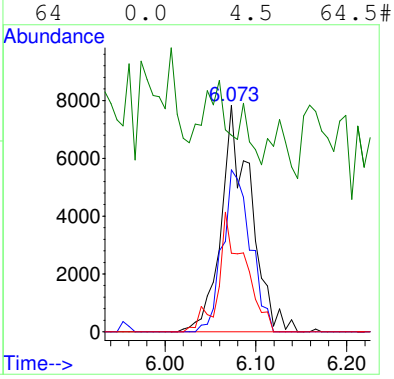


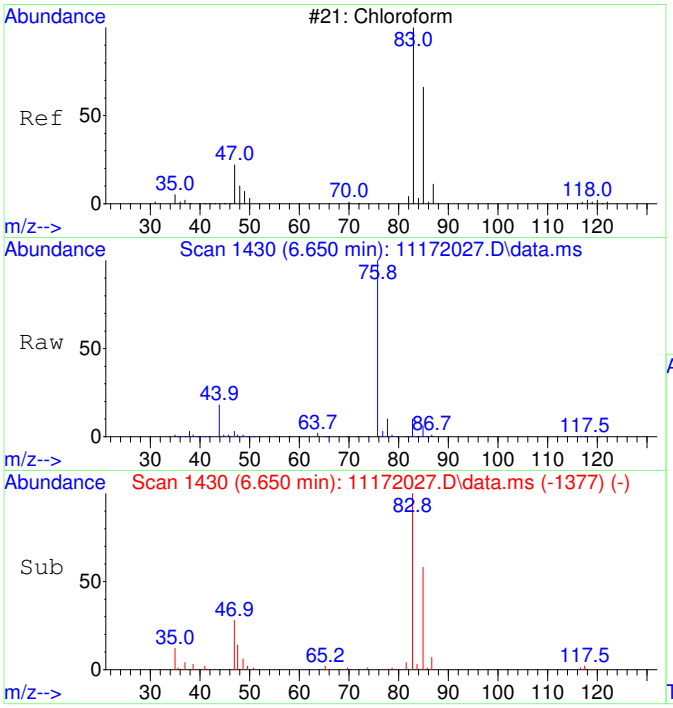


#29
cis-1,2-Dichloroethene SCAN
Concen: 1017.51 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 61 Resp: 17853

Ion	Ratio	Lower	Upper
61	100		
96	67.1	39.9	99.9
98	46.1	13.5	73.5
64	0.0	4.5	64.5#

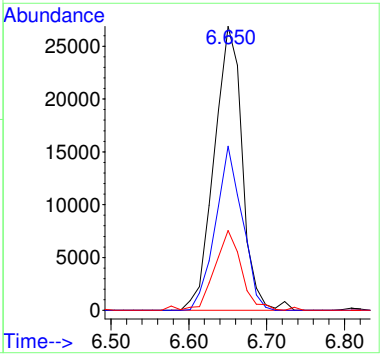


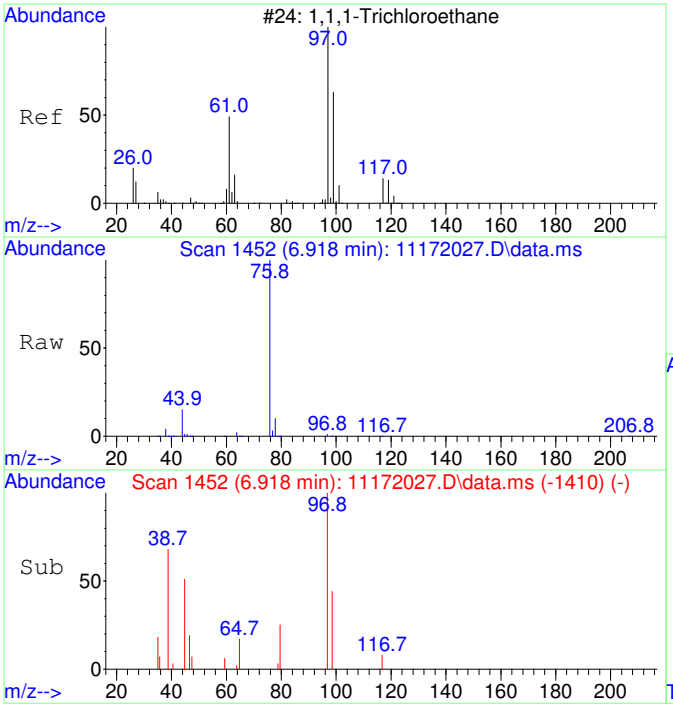


#30
Chloroform SCAN
Concen: 3539.42 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 83 Resp: 67358

Ion	Ratio	Lower	Upper
83	100		
85	55.4	34.6	94.6
47	26.0	0.0	53.4

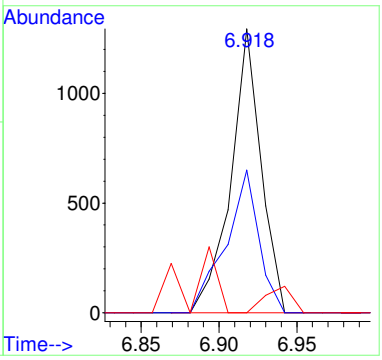


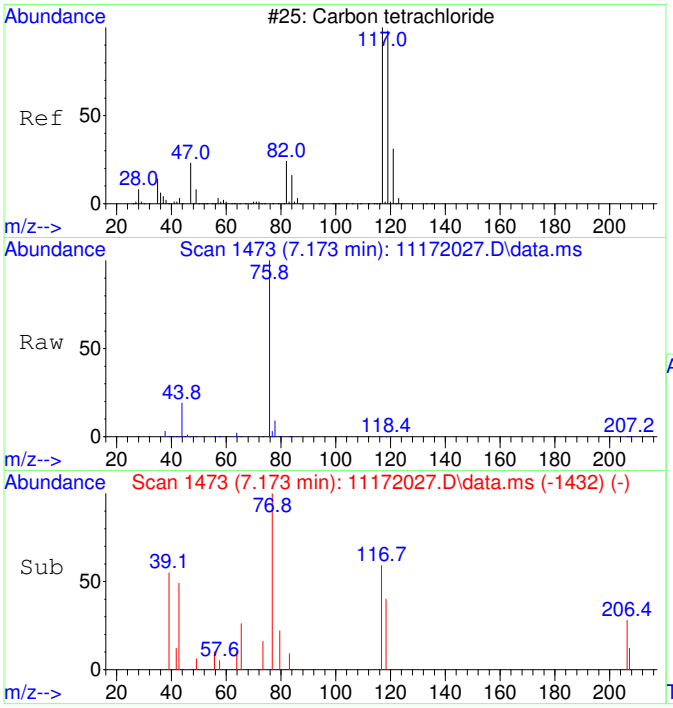


#31
1,1,1-Trichloroethane SCAN
Concen: 101.20 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 97 Resp: 1755

Ion	Ratio	Lower	Upper
97	100		
99	55.0	43.6	103.6
61	0.0	18.0	78.0#

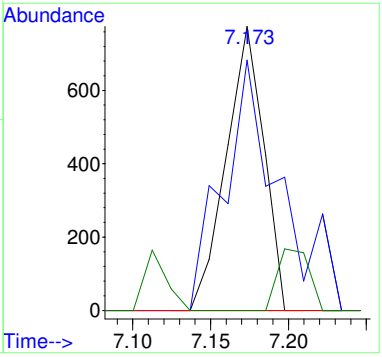


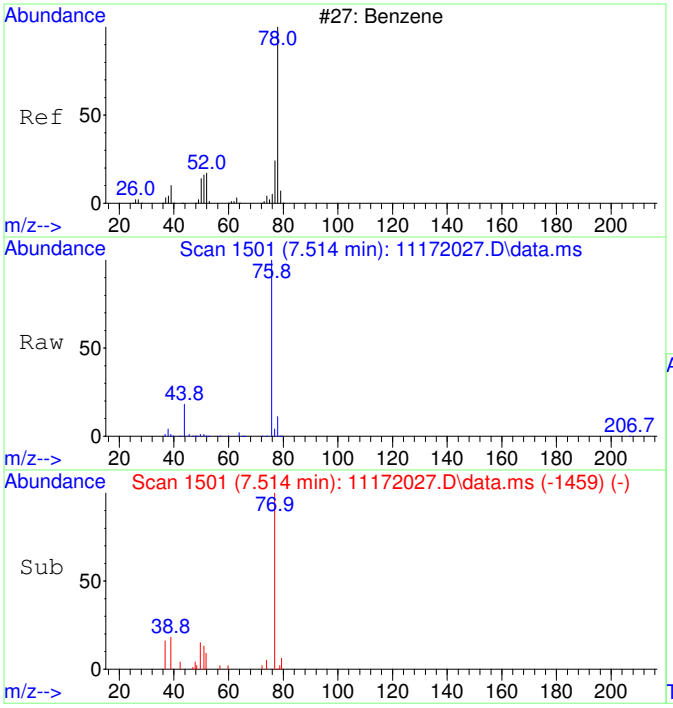


#32
Carbon tetrachloride SCAN
Concen: 72.19 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:117 Resp: 1306

Ion	Ratio	Lower	Upper
117	100		
119	131.9	75.5	135.5
121	0.0	0.0	58.8
82	0.0	0.0	59.2

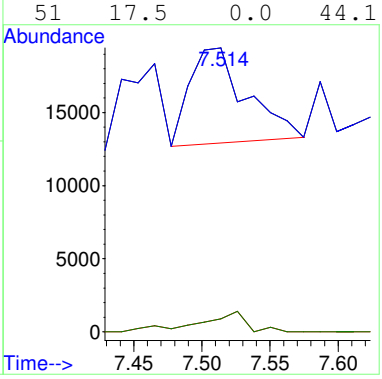


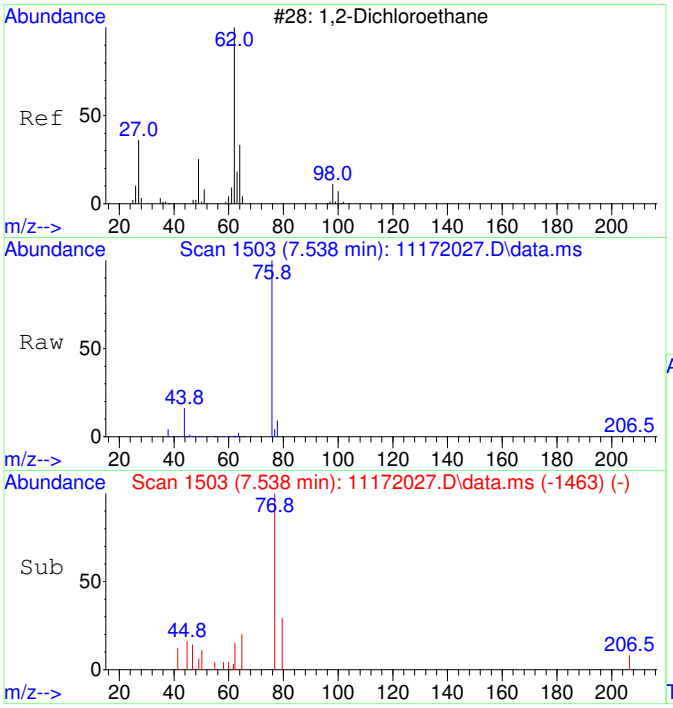


#33
Benzene SCAN
Concen: 399.87 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 78 Resp: 19094

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	17.5	0.0	47.9
51	17.5	0.0	44.1

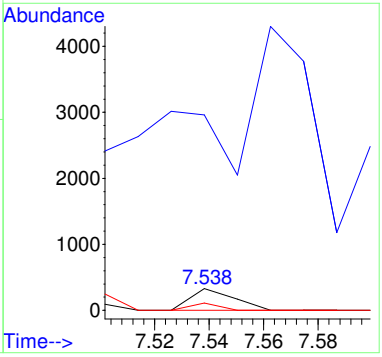


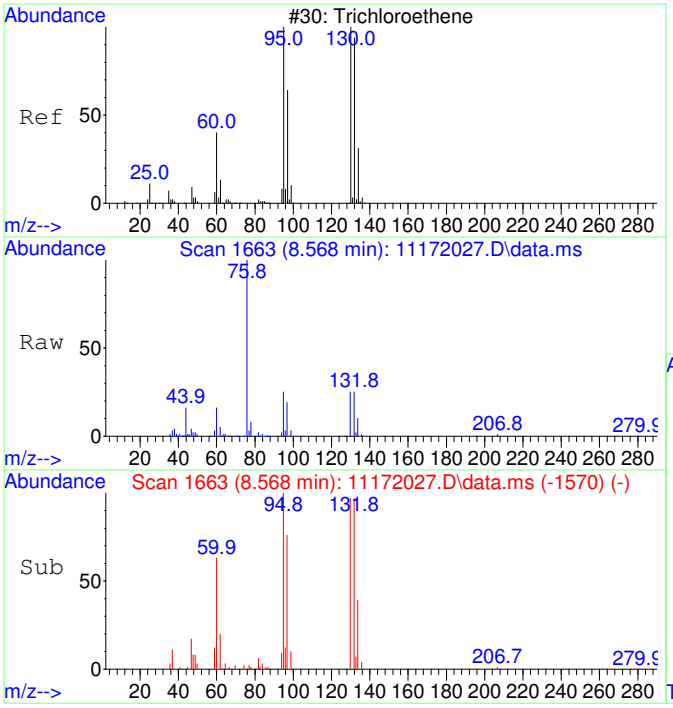


#34
1,2-Dichloroethane SCAN
Concen: 20.70 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 62 Resp: 365

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	21.9	3.9	63.9

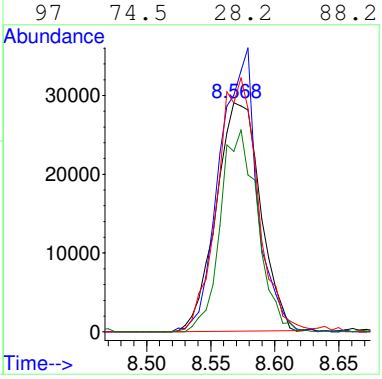


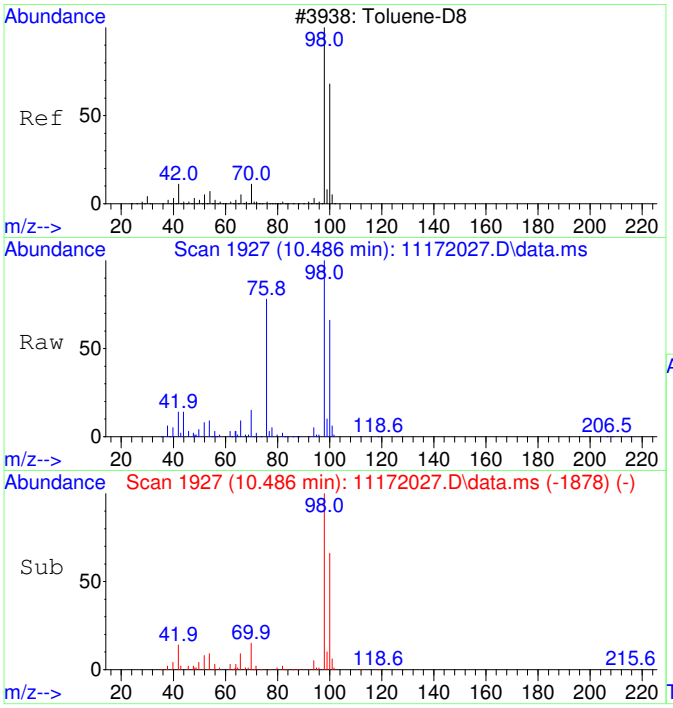


#35
Trichloroethene SCAN
Concen: 5298.33 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:130 Resp: 69525

Ion	Ratio	Lower	Upper
130	100		
95	104.5	60.5	120.5
132	102.9	59.6	119.6
97	74.5	28.2	88.2

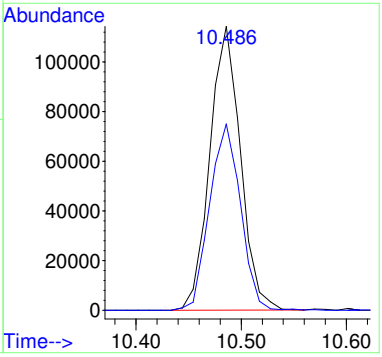


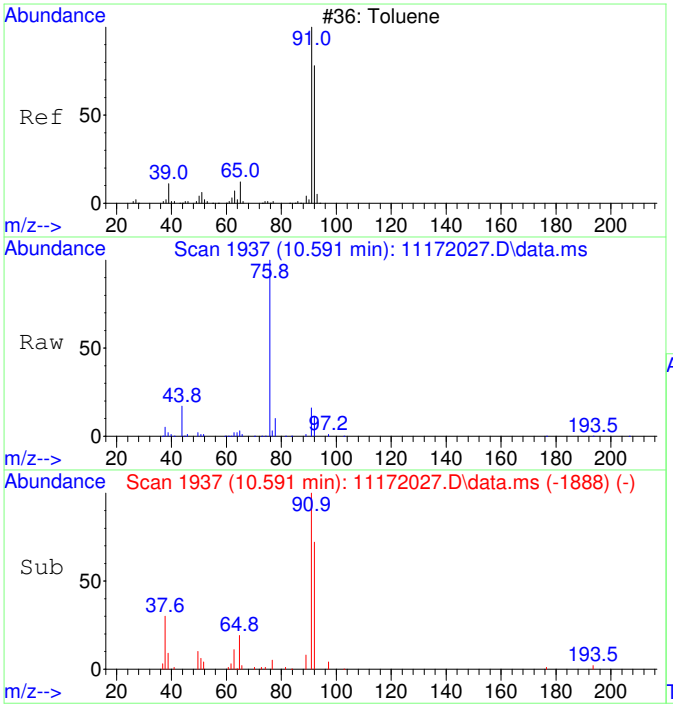


#36
Toluene-d8 SCAN
Concen: 4393.90 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 98 Resp: 231382

Ion	Ratio	Lower	Upper
98	100		
100	66.2	40.0	100.0

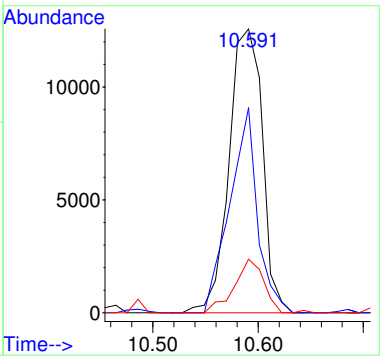


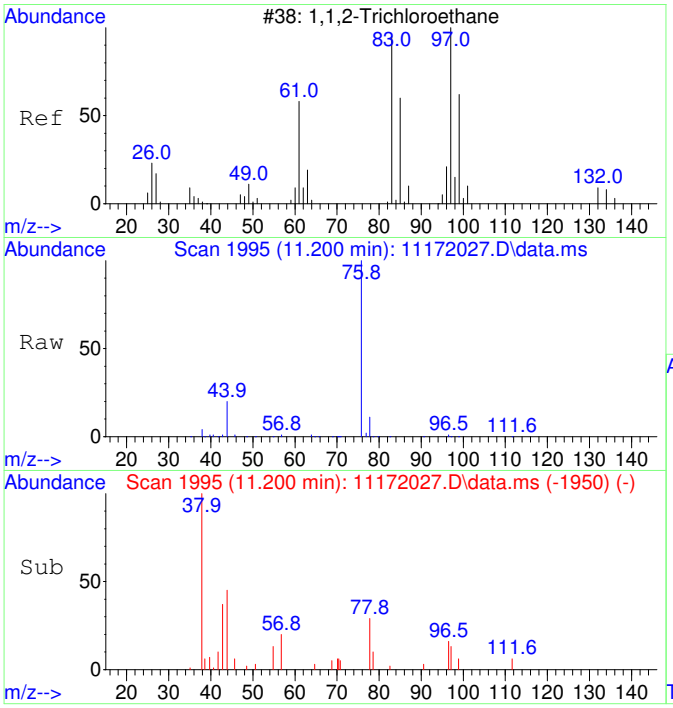


#37
Toluene SCAN
Concen: 412.03 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 27787

Ion	Ratio	Lower	Upper
91	100		
92	60.0	28.3	88.3
65	16.6	0.0	41.0

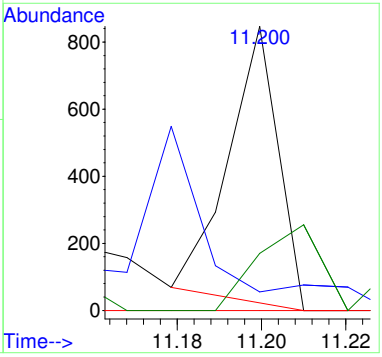


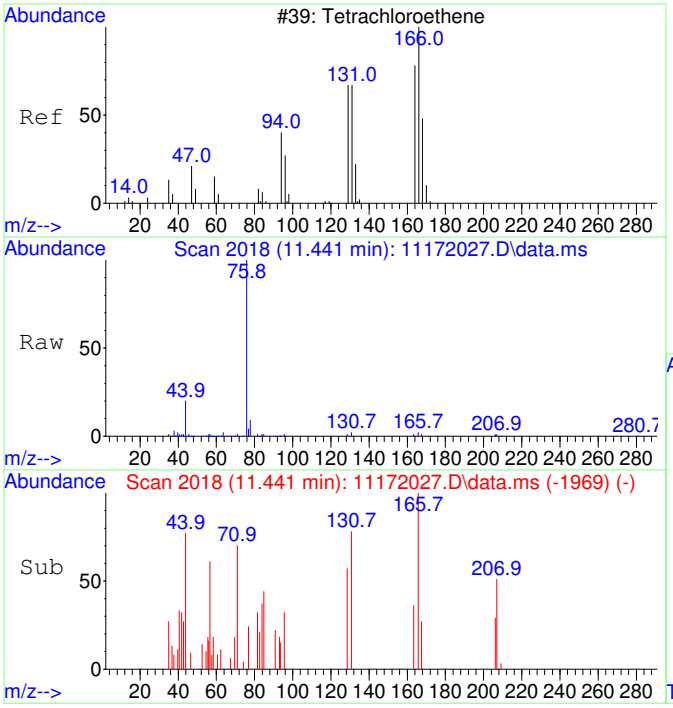


#38
1,1,2-Trichloroethane SCAN
Concen: 43.14 ug/L
RT: 11.200 min Scan# 1995
Delta R.T. -0.032 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 97 Resp: 653

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	63.9	36.7	96.7

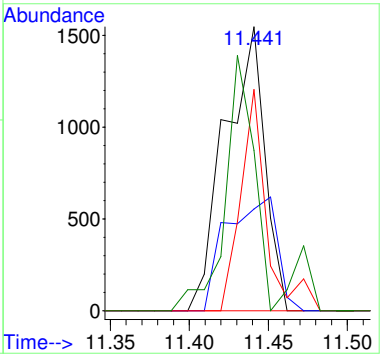


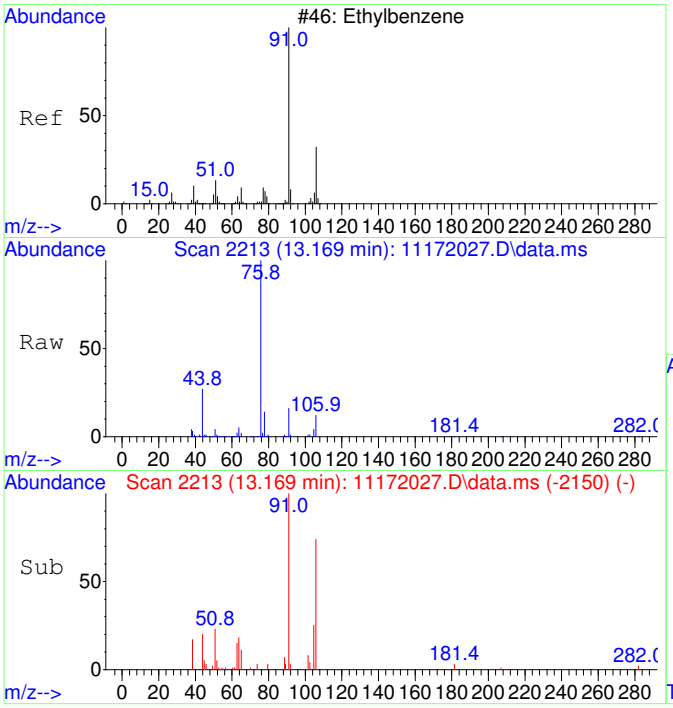


#39
Tetrachloroethene SCAN
Concen: 167.70 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:166 Resp: 2717

Ion	Ratio	Lower	Upper
166	100		
164	51.1	50.9	110.9
131	50.6	38.7	98.7
129	0.0	41.8	101.8#

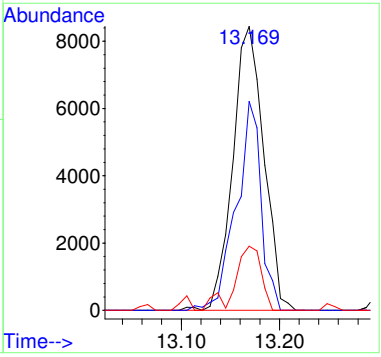


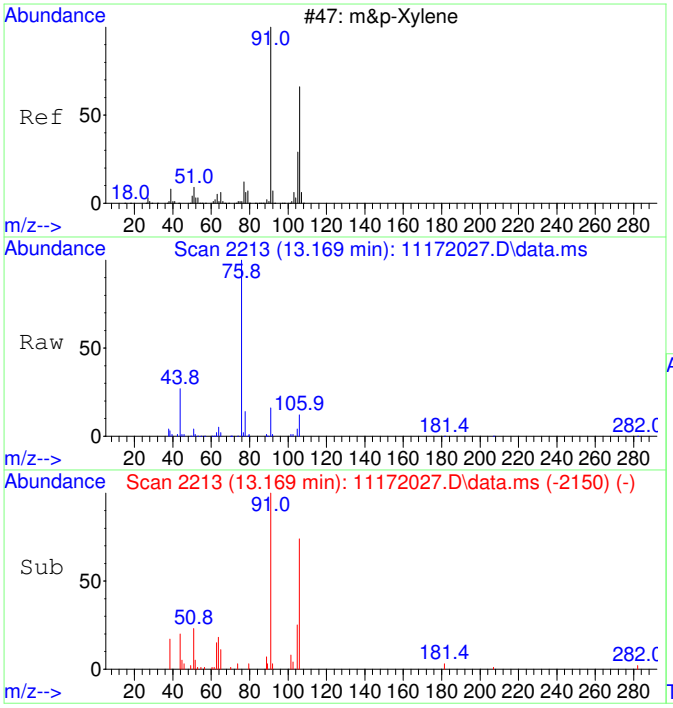


#42
Ethylbenzene SCAN
Concen: 150.45 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 18485

Ion	Ratio	Lower	Upper
91	100		
106	58.8	23.1	83.1
51	19.3	0.0	40.1

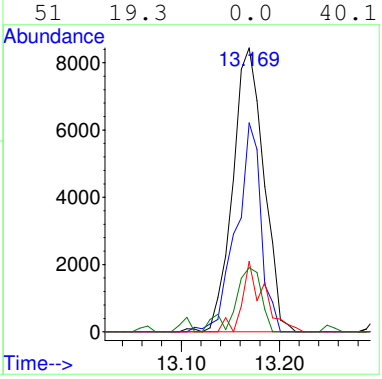


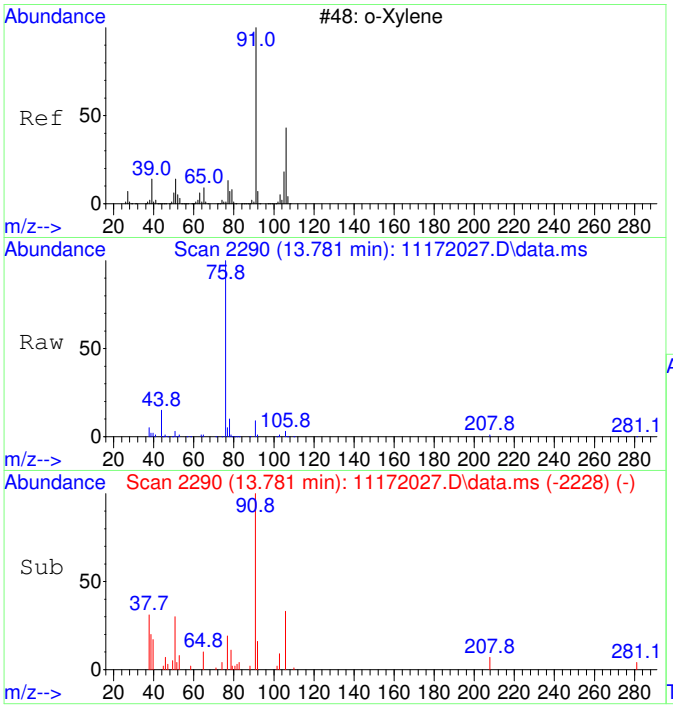


#43
m&p-Xylene SCAN
Concen: 150.45 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 18485

Ion	Ratio	Lower	Upper
91	100		
106	58.8	23.1	83.1
105	17.6	0.0	54.7
51	19.3	0.0	40.1

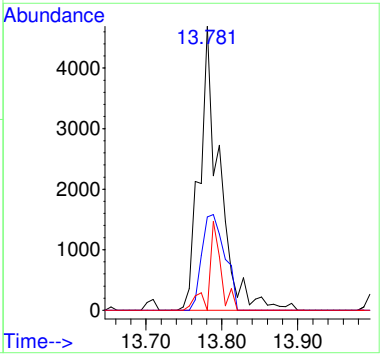


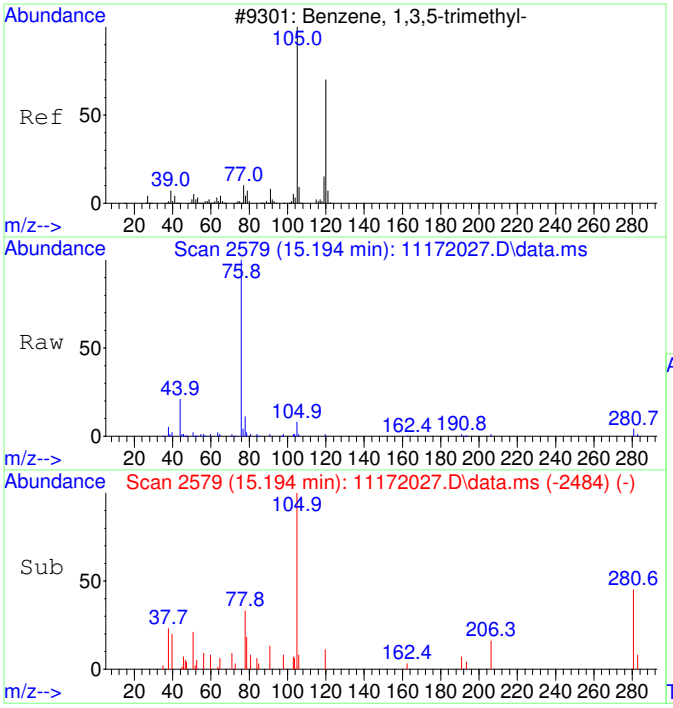


#44
o-Xylene SCAN
Concen: 130.78 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 8601

Ion	Ratio	Lower	Upper
91	100		
106	39.0	18.0	78.0
105	18.8	0.0	56.6

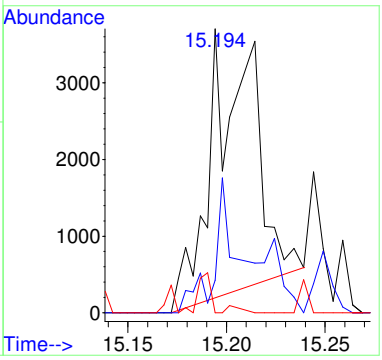


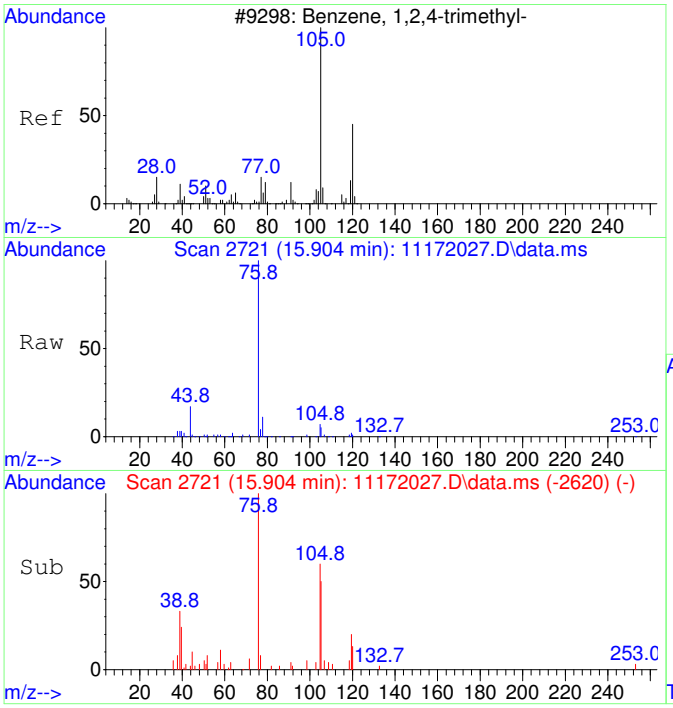


#46
1,3,5-Trimethylbenzene SCAN
Concen: 66.73 ug/L
RT: 15.194 min Scan# 2579
Delta R.T. -0.149 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:105 Resp: 4625

Ion	Ratio	Lower	Upper
105	100		
120	43.2	18.3	78.3
119	4.7	0.0	43.1

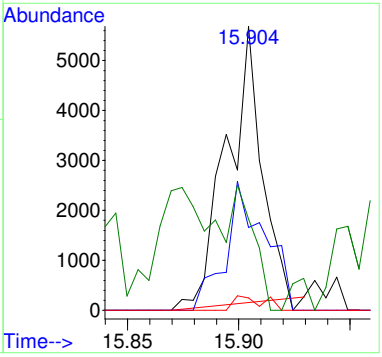




#47
1,2,4-Trimethylbenzene SCAN
Concen: 84.80 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:105 Resp: 6014

Ion	Ratio	Lower	Upper
105	100		
120	53.0	16.9	76.9
119	4.4	0.0	41.9
77	0.0	0.0	42.3



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172027.D
Acq On : 17 Nov 2020 18:09
InstName : AG5975C
Operator : TD
Sample : 2011017-16
Misc :
ALS Vial : 27 Sample Multiplier: 1

M.I. Performed By:
TD at 9:46 am, Nov 23, 2020

M.I. Approved By:
ZR at 3:45 pm, Nov 23, 2020

Quant Time: Nov 18 06:17:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

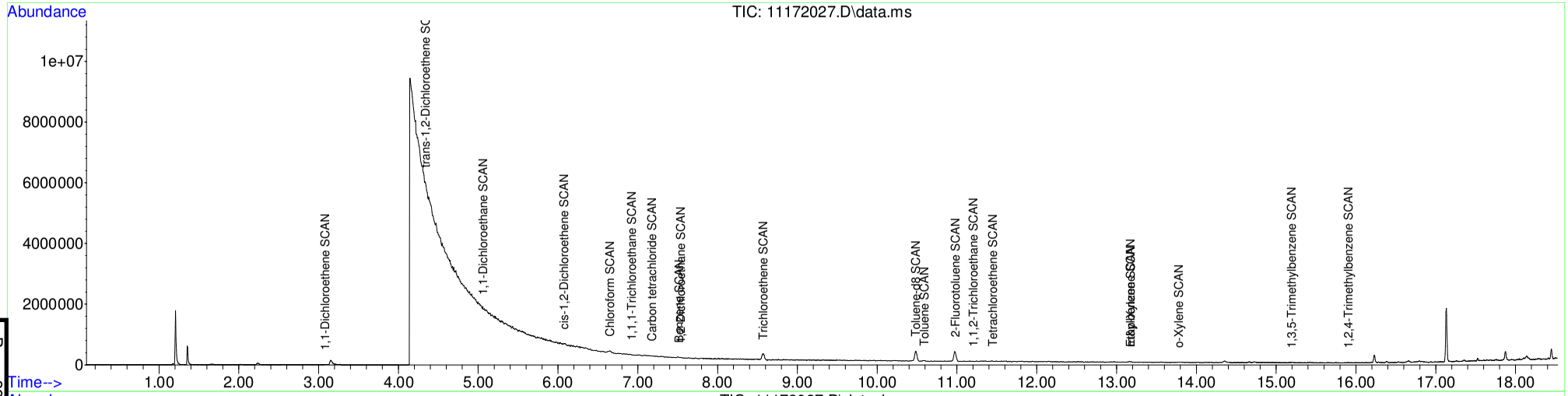
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	552372	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	477068	4411.87	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.24%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	1111m	50.37	ug/L	
3] trans-1,2-Dichloroethene	4.343	61	1712	67.18	ug/L	65
4] 1,1-Dichloroethane	5.066	63	1620	51.07	ug/L	54
5] cis-1,2-Dichloroethene	6.074	61	29968	894.95	ug/L	99
6] Chloroform	6.652	83	119773	3494.59	ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	2913	78.26	ug/L	99
8] Carbon tetrachloride	7.175	117	3024	86.32	ug/L	99
9] Benzene	7.503	78	23041	245.51	ug/L	78
11] Trichloroethene	8.569	130	146010	5167.15	ug/L	94
13] Toluene	10.582	91	52460	380.53	ug/L	98
14] 1,1,2-Trichloroethane	11.169	97	972	32.36	ug/L #	22
15] Tetrachloroethene	11.432	166	5137	128.76	ug/L	99
18] Ethylbenzene	12.972	91	15669	93.38	ug/L	96
19] m&p-Xylene	13.162	91	36280	276.63	ug/L	95
20] o-Xylene	13.782	91	13524	96.52	ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.873	83	1778	28.63	ug/L #	24
22] 1,3,5-Trimethylbenzene	15.350	105	4135	27.73	ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	13615	87.89	ug/L	93
25) 2-Fluorotoluene SCAN	10.979	109	256449	4762.63	ug/L	96
26) 1,1-Dichloroethene SCAN	3.077	61	460	40.23	ug/L #	25
27) trans-1,2-Dichloroethe...	4.335	61	1093	77.24	ug/L #	61
28) 1,1-Dichloroethane SCAN	5.064	63	341	20.82	ug/L #	50
29) cis-1,2-Dichloroethene...	6.073	61	17853	1017.51	ug/L #	83
30) Chloroform SCAN	6.650	83	67358	3539.42	ug/L	90
31) 1,1,1-Trichloroethane ...	6.918	97	1755	101.20	ug/L #	59
32) Carbon tetrachloride SCAN	7.173	117	1306	72.19	ug/L #	64
33) Benzene SCAN	7.514	78	19094	399.87	ug/L	99
34) 1,2-Dichloroethane SCAN	7.538	62	365	20.70	ug/L #	59
35) Trichloroethene SCAN	8.568	130	69525	5298.33	ug/L	84
36) Toluene-d8 SCAN	10.486	98	231382	4393.90	ug/L	95
37) Toluene SCAN	10.591	91	27787	412.03	ug/L	96
38) 1,1,2-Trichloroethane ...	11.200	97	653	43.14	ug/L #	38
39) Tetrachloroethene SCAN	11.441	166	2717	167.70	ug/L #	53
42) Ethylbenzene SCAN	13.169	91	18485	150.45	ug/L	89
43) m&p-Xylene SCAN	13.169	91	18485	150.45	ug/L	88
44) o-Xylene SCAN	13.781	91	8601	130.78	ug/L	86
46) 1,3,5-Trimethylbenzene...	15.194	105	4625	66.73	ug/L	90
47) 1,2,4-Trimethylbenzene...	15.904	105	6014	84.80	ug/L #	85

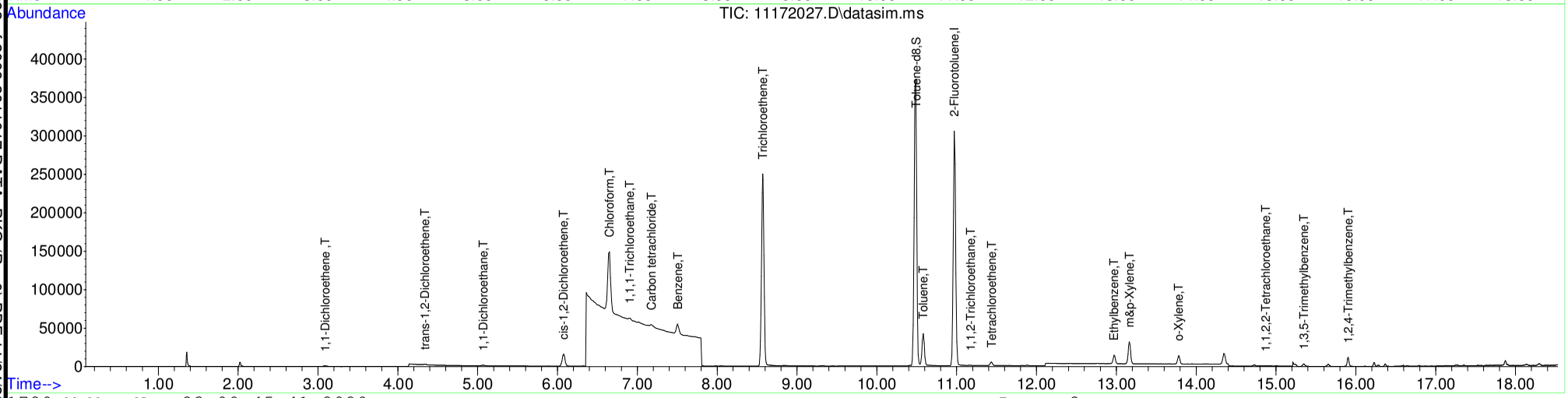
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172027.D
Acq On : 17 Nov 2020 18:09
InstName : AG5975C
Operator : TD
Sample : 2011017-16
Misc :
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 18 06:17:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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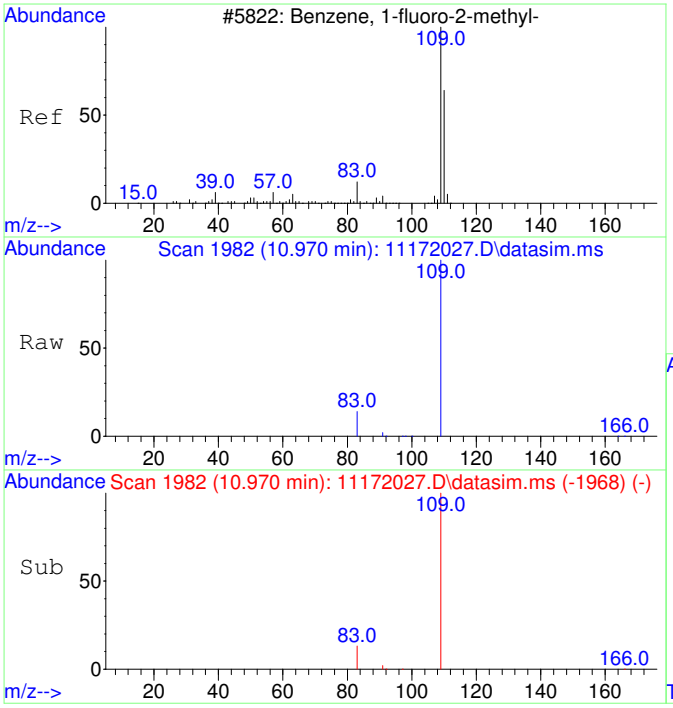
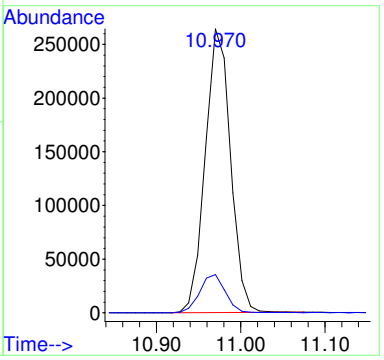
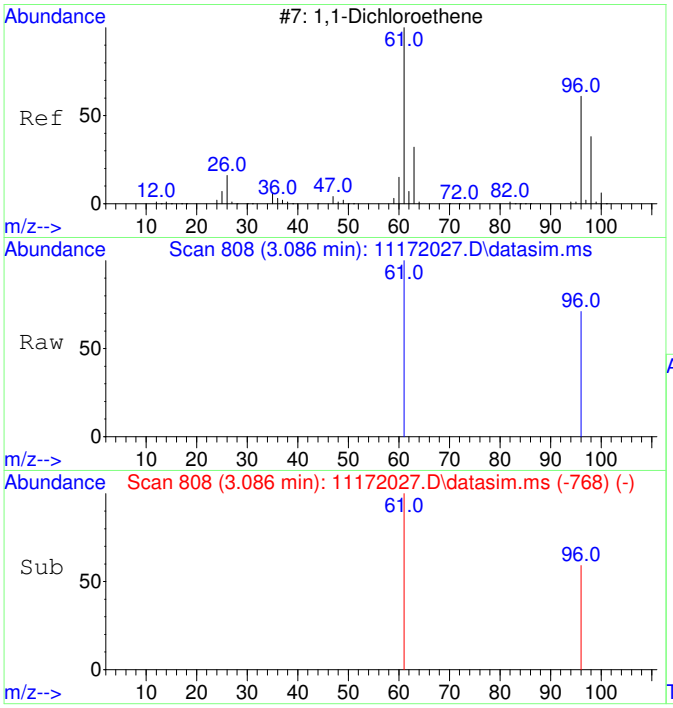


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:109 Resp: 552372

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

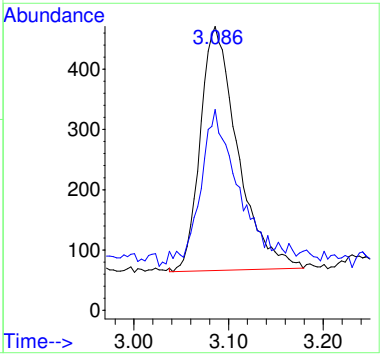


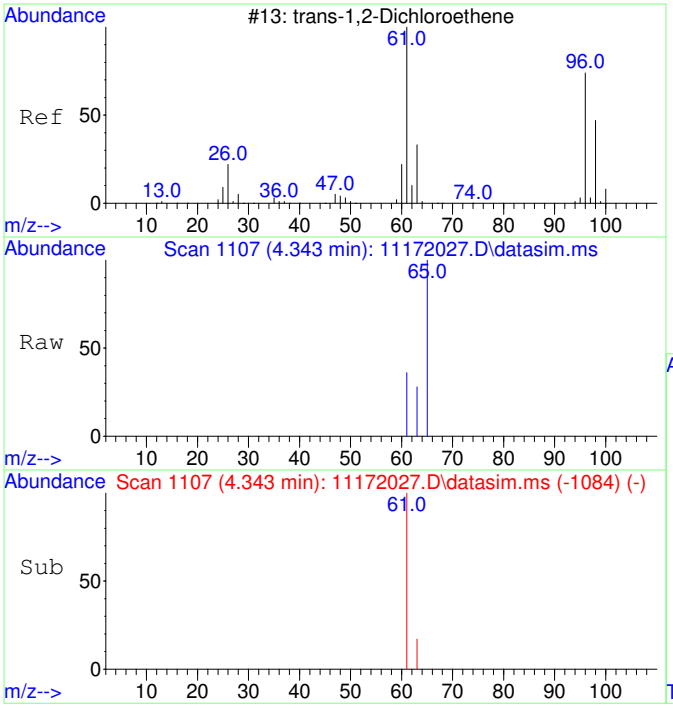


#2
1,1-Dichloroethene
Concen: 50.37 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 61 Resp: 1111

Ion	Ratio	Lower	Upper
61	100		
96	79.4	37.2	97.2

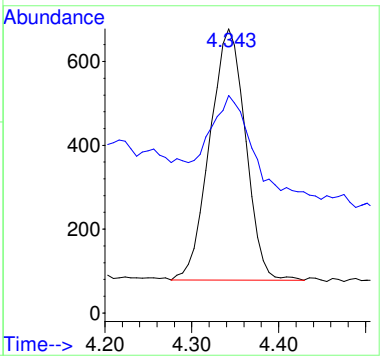


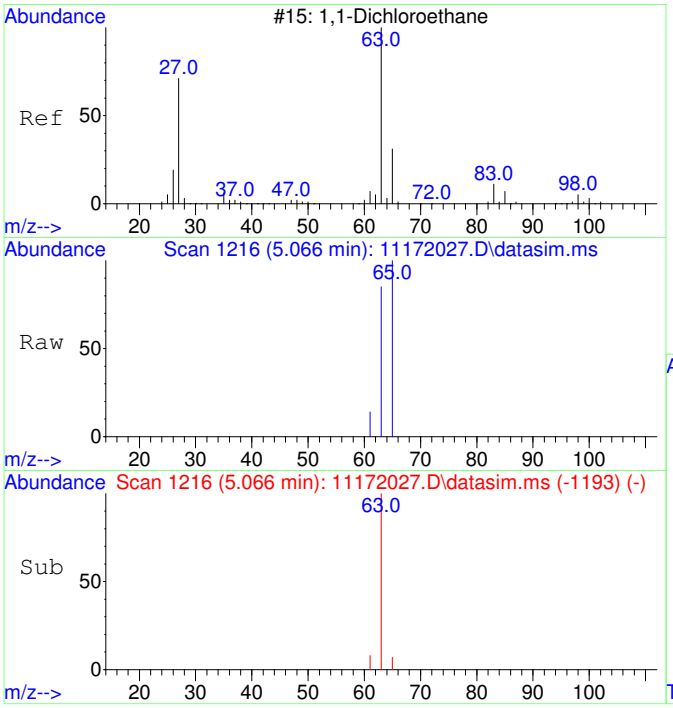


#3
trans-1,2-Dichloroethene
Concen: 67.18 ug/L
RT: 4.343 min Scan# 1107
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 61 Resp: 1712

Ion	Ratio	Lower	Upper
61	100		
63	52.3	2.4	62.4

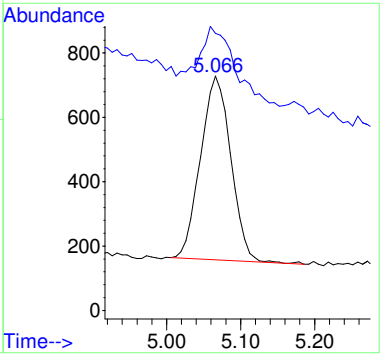


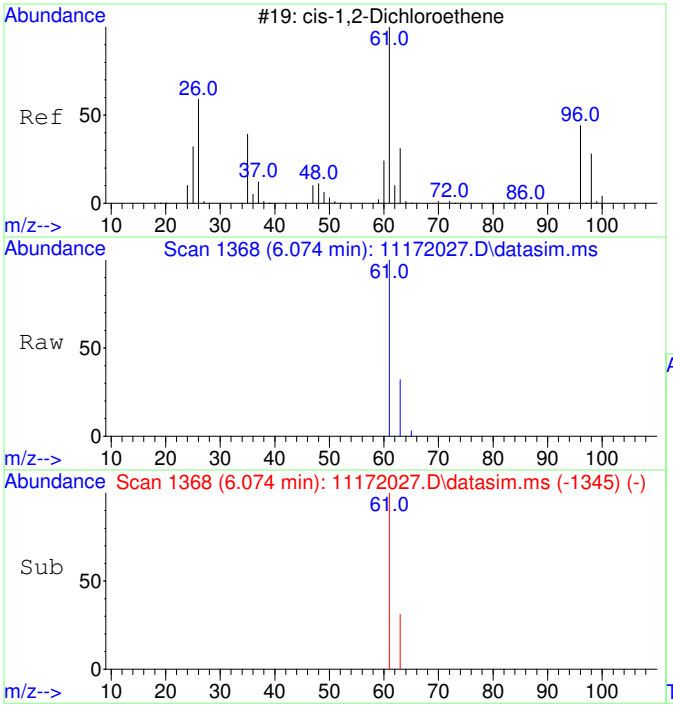


#4
1,1-Dichloroethane
Concen: 51.07 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 63 Resp: 1620

Ion	Ratio	Lower	Upper
63	100		
65	57.4	1.8	61.8

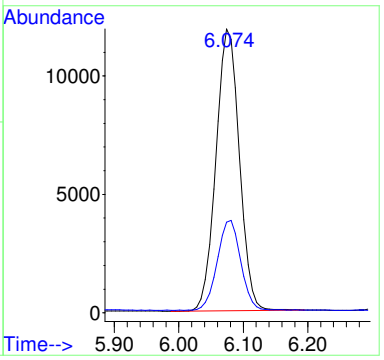


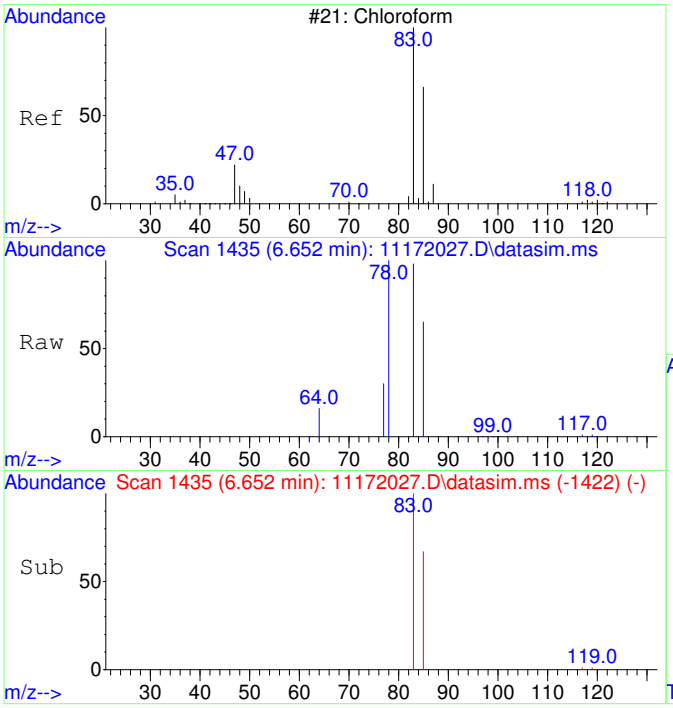


#5
cis-1,2-Dichloroethene
Concen: 894.95 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 61 Resp: 29968

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

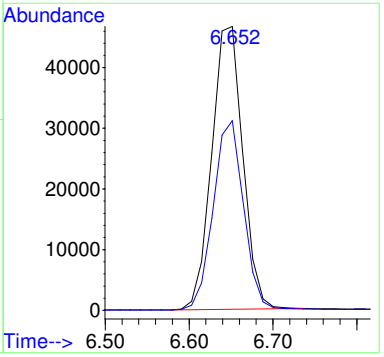


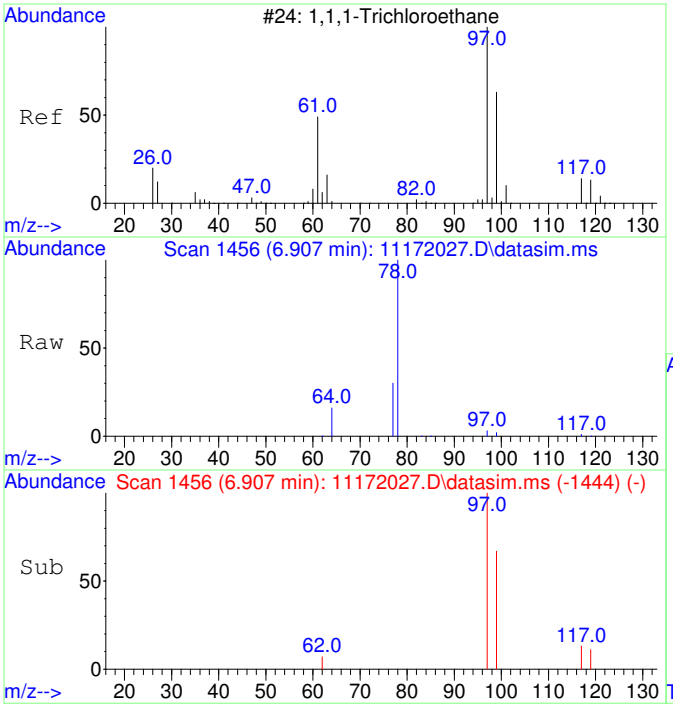


#6
Chloroform
Concen: 3494.59 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 83 Resp: 119773

Ion	Ratio	Lower	Upper
83	100		
85	64.8	35.1	95.1

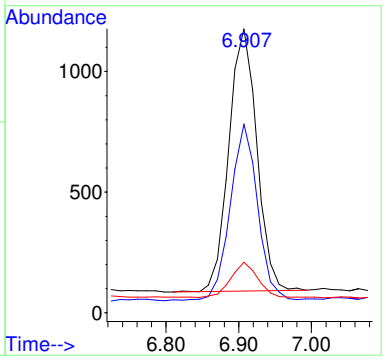


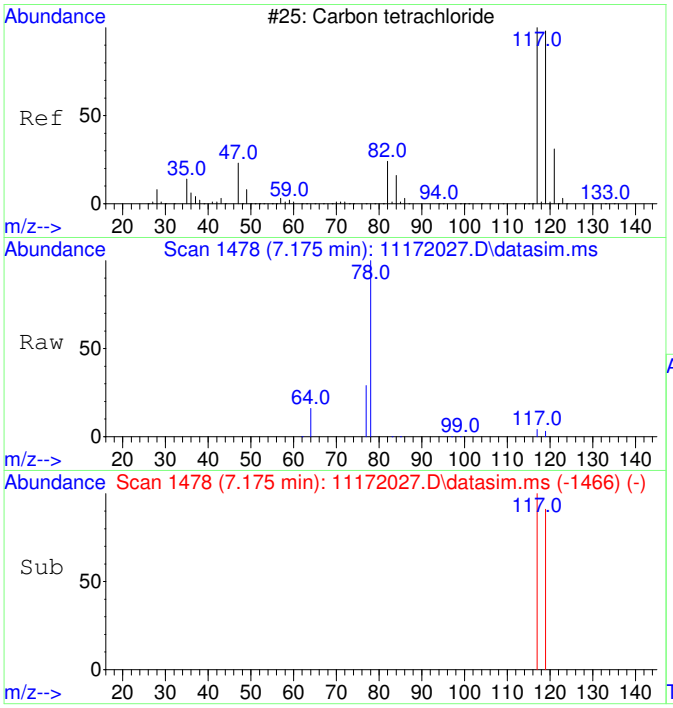


#7
1,1,1-Trichloroethane
Concen: 78.26 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 97 Resp: 2913

Ion	Ratio	Lower	Upper
97	100		
99	65.3	34.6	94.6
117	12.8	0.0	43.2

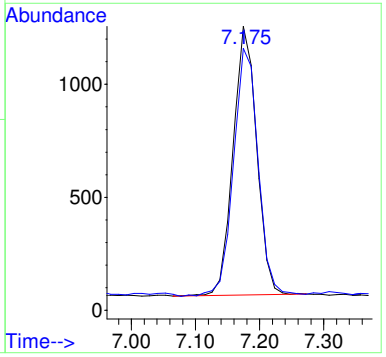


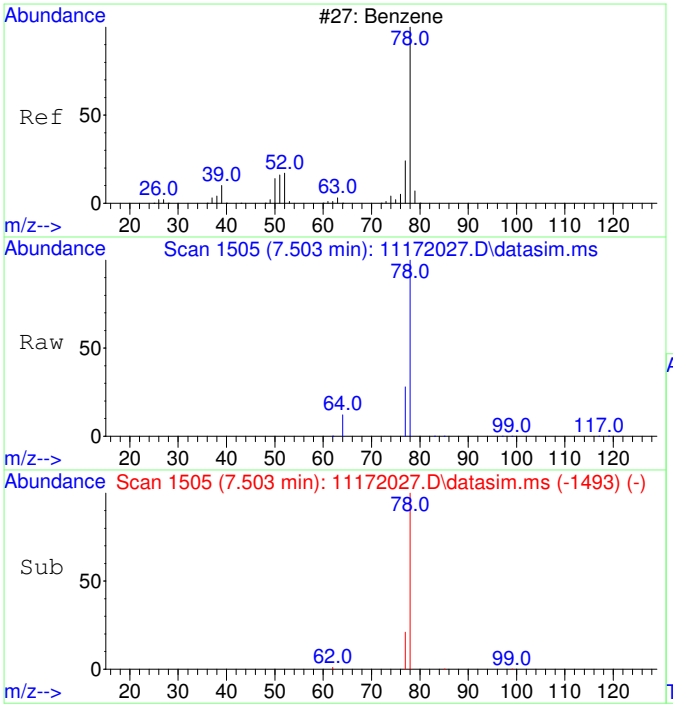


#8
Carbon tetrachloride
Concen: 86.32 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:117 Resp: 3024

Ion	Ratio	Lower	Upper
117	100		
119	95.9	66.4	126.4

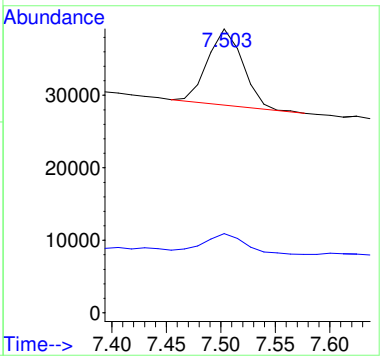


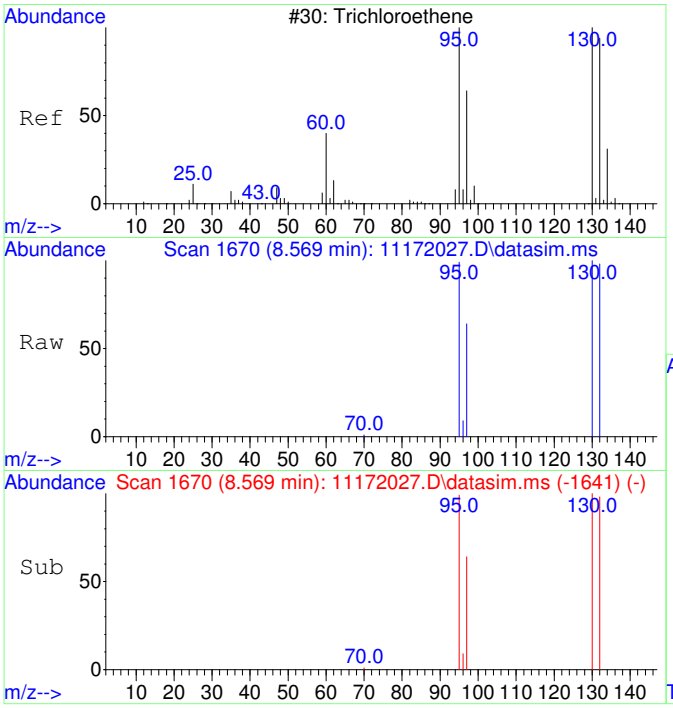


#9
Benzene
Concen: 245.51 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 78 Resp: 23041

Ion	Ratio	Lower	Upper
78	100		
77	34.0	0.0	53.2

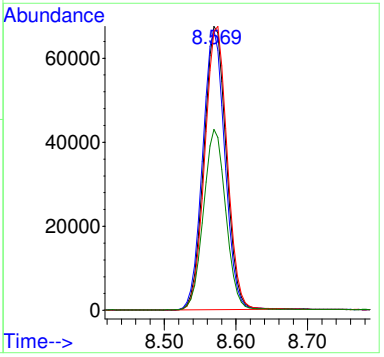


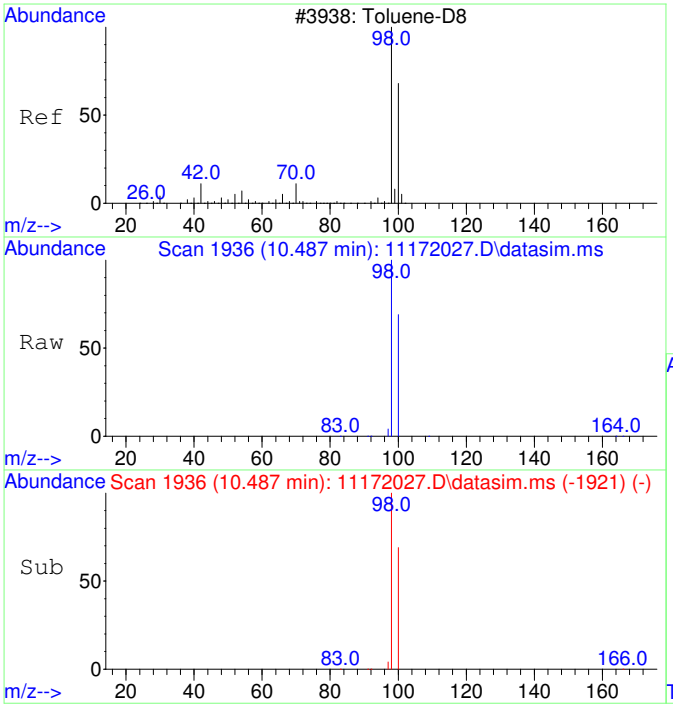


#11
Trichloroethene
Concen: 5167.15 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:130 Resp: 146010

Ion	Ratio	Lower	Upper
130	100		
95	98.3	60.7	120.7
132	99.9	76.0	116.0
97	63.1	38.6	78.6

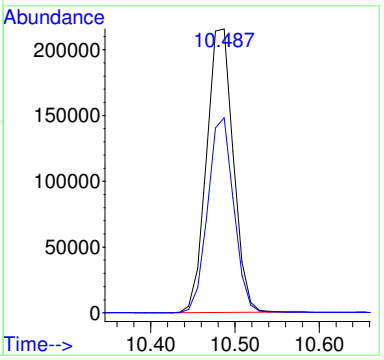


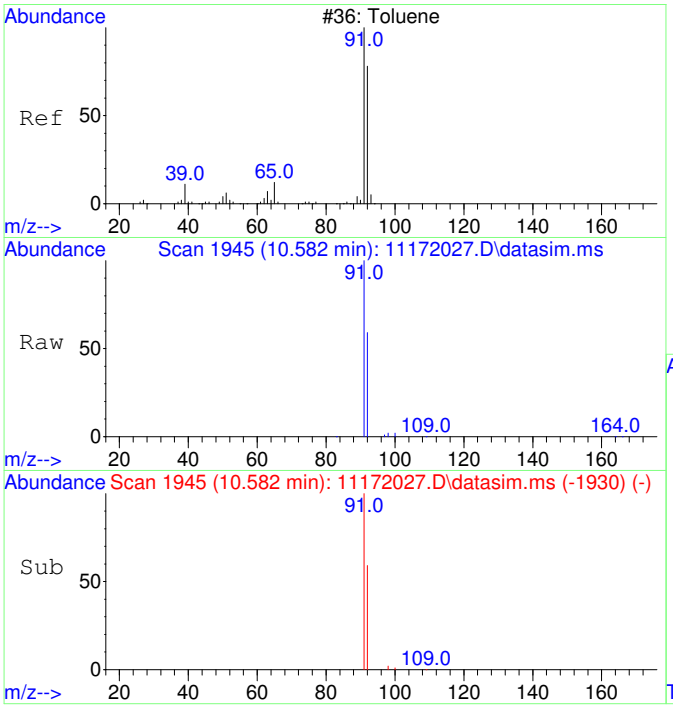


#12
Toluene-d8
Concen: 4411.87 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 98 Resp: 477068

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

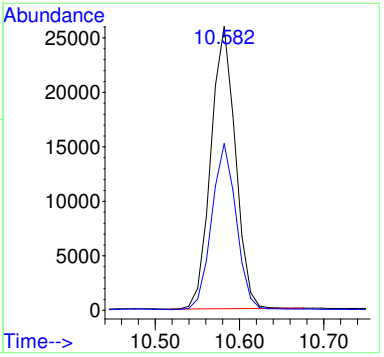


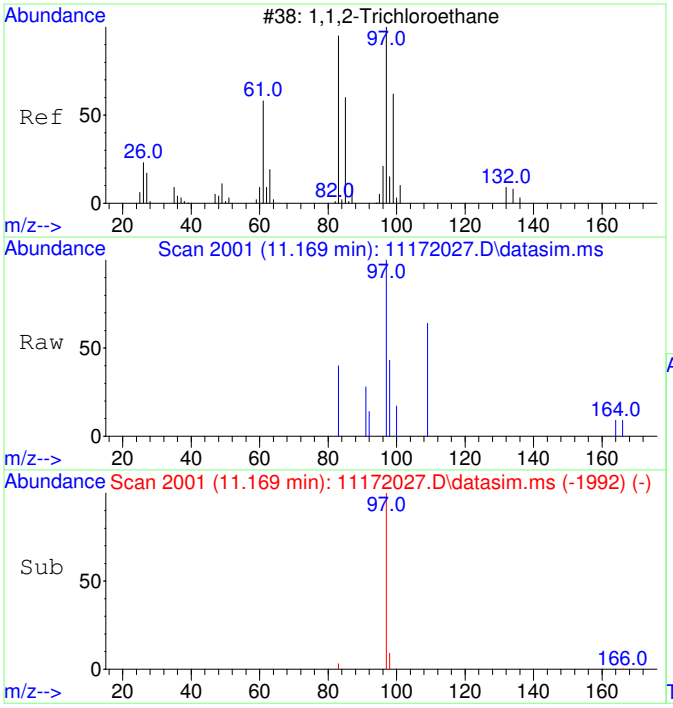


#13
Toluene
Concen: 380.53 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 52460

Ion	Ratio	Lower	Upper
91	100		
92	58.3	29.9	89.9

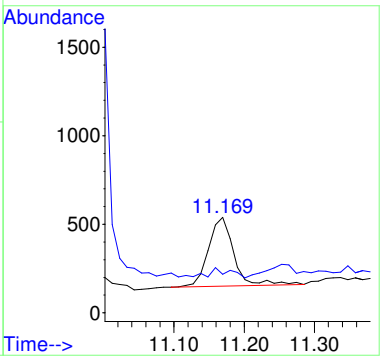


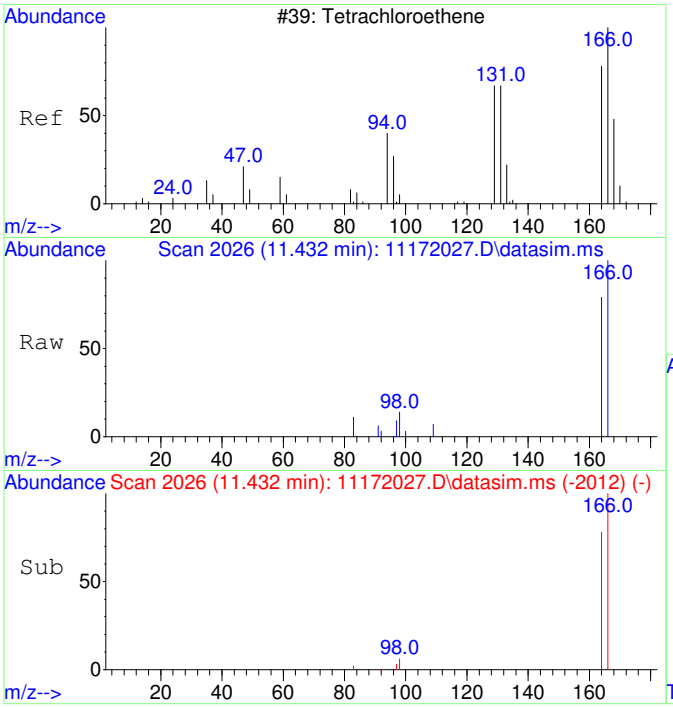


#14
1,1,2-Trichloroethane
Concen: 32.36 ug/L
RT: 11.169 min Scan# 2001
Delta R.T. -0.053 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 97 Resp: 972

Ion	Ratio	Lower	Upper
97	100		
83	11.6	51.2	111.2#

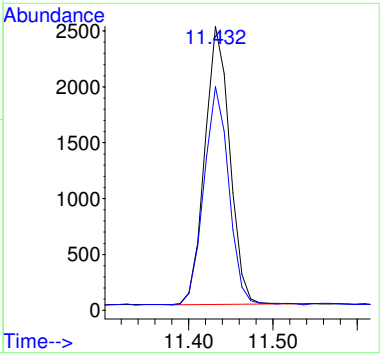


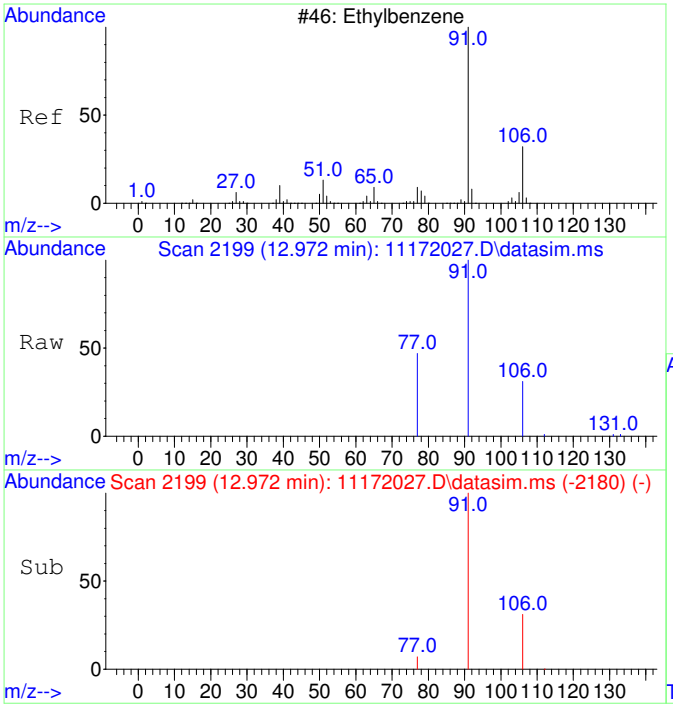


#15
Tetrachloroethene
Concen: 128.76 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:166 Resp: 5137

Ion	Ratio	Lower	Upper
166	100		
164	78.8	47.8	107.8

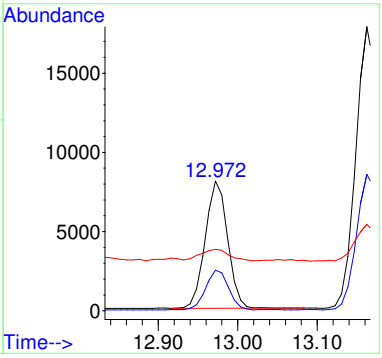


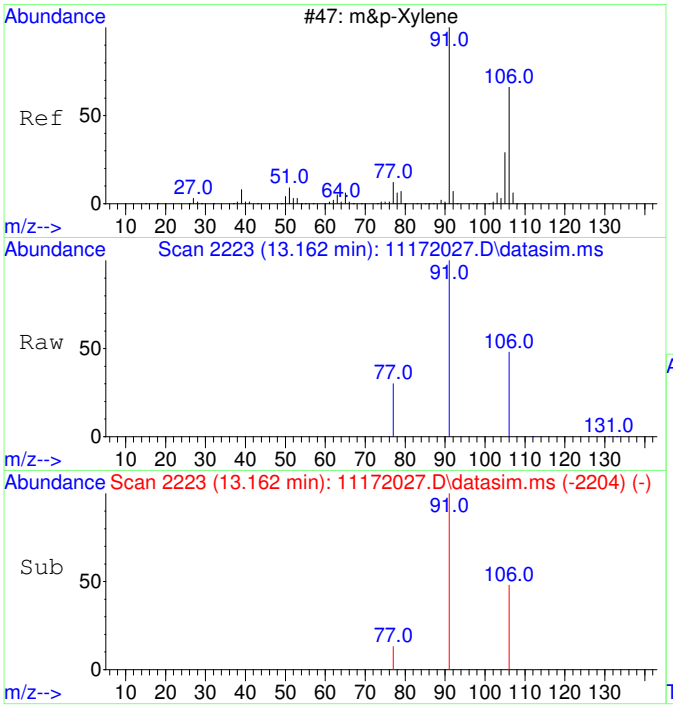


#18
Ethylbenzene
Concen: 93.38 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 15669

Ion	Ratio	Lower	Upper
91	100		
106	31.5	3.0	63.0
77	11.6	0.0	38.2

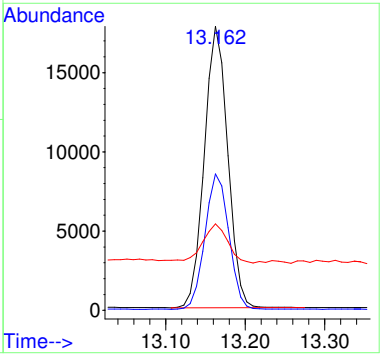


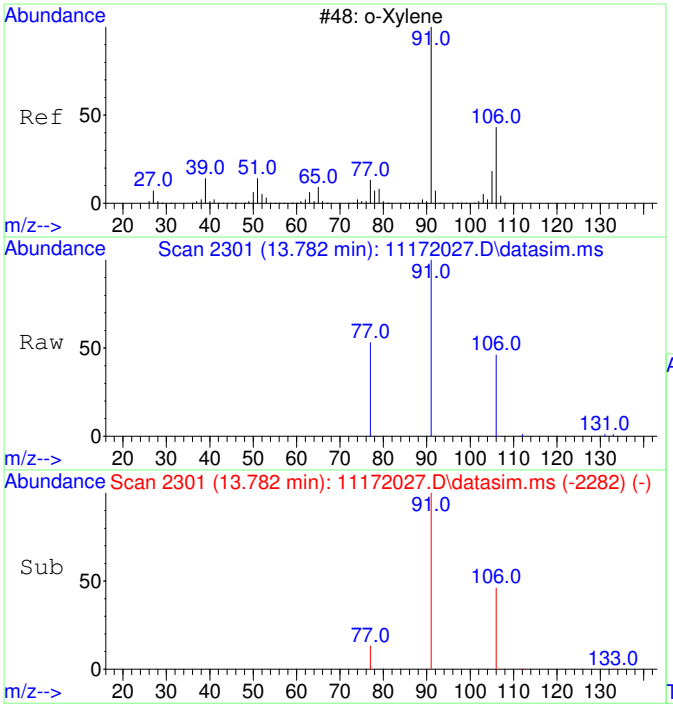


#19
m&p-Xylene
Concen: 276.63 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 36280

Ion	Ratio	Lower	Upper
91	100		
106	49.0	22.2	82.2
77	15.5	0.0	42.4

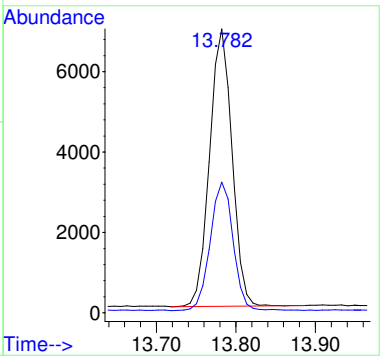


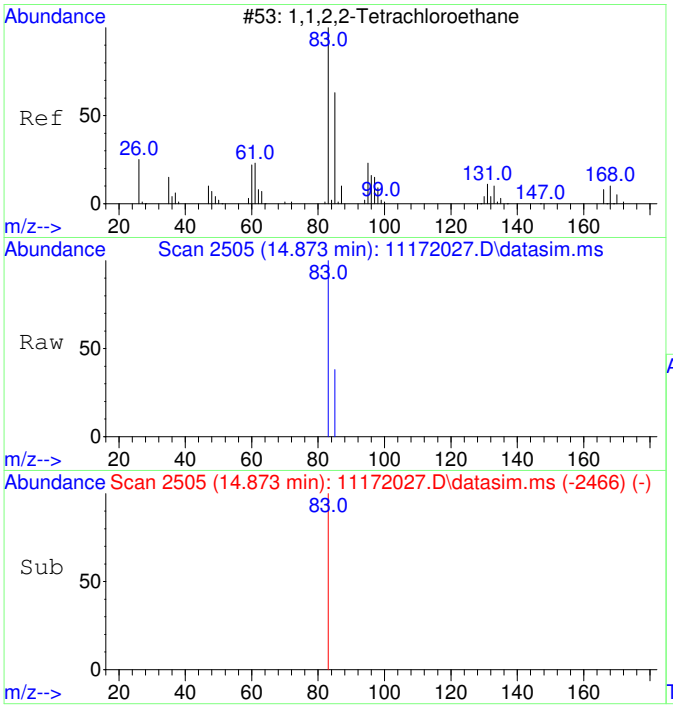


#20
o-Xylene
Concen: 96.52 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 13524

Ion	Ratio	Lower	Upper
91	100		
106	47.3	19.2	79.2

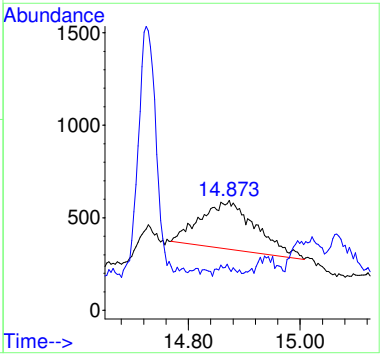


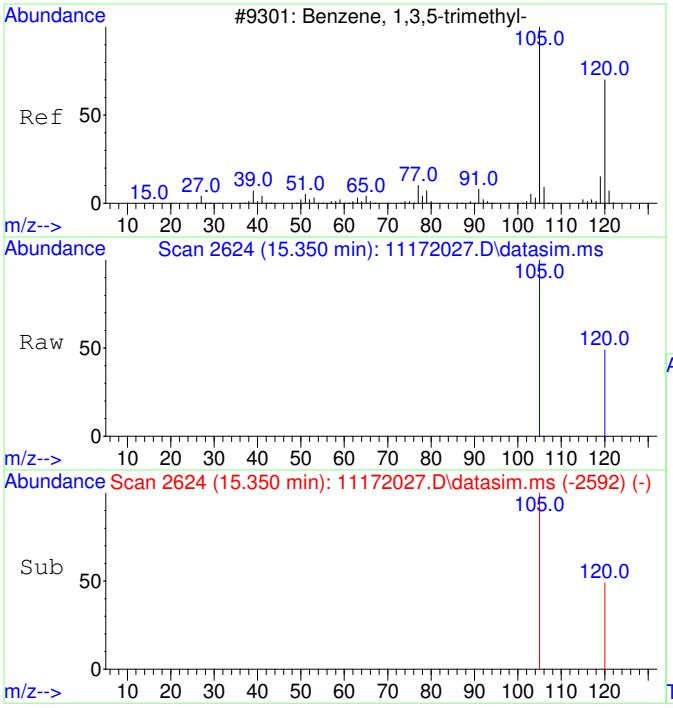


#21
1,1,2,2-Tetrachloroethane
Concen: 28.63 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. -0.004 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 83 Resp: 1778

Ion	Ratio	Lower	Upper
83	100		
85	4.8	34.8	94.8#

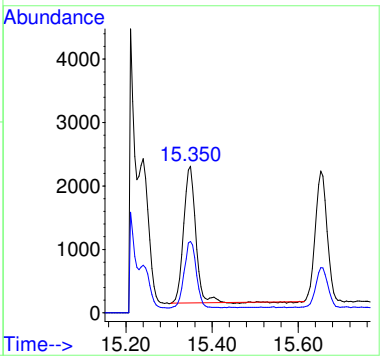


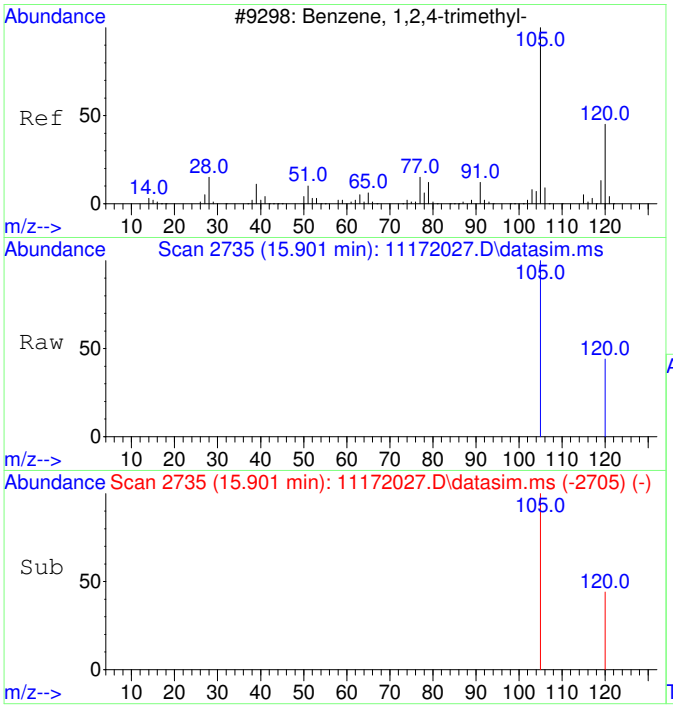


#22
1,3,5-Trimethylbenzene
Concen: 27.73 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:105 Resp: 4135

Ion	Ratio	Lower	Upper
105	100		
120	48.2	21.1	81.1

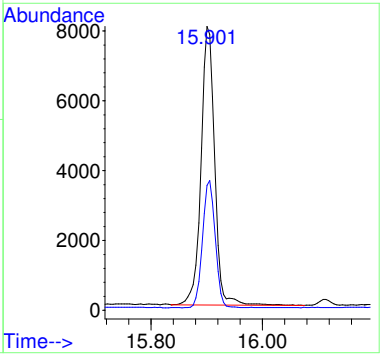


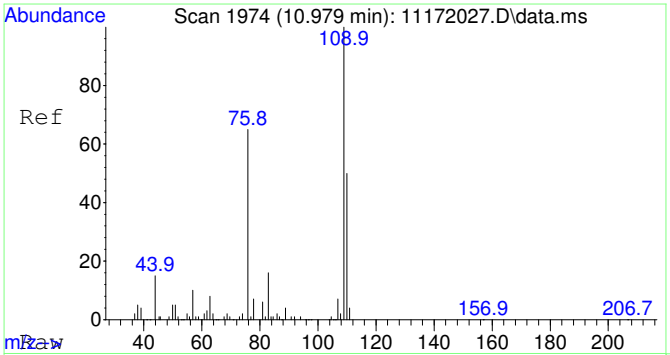


#23
1,2,4-Trimethylbenzene
Concen: 87.89 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:105 Resp: 13615

Ion	Ratio	Lower	Upper
105	100		
120	42.2	17.2	77.2

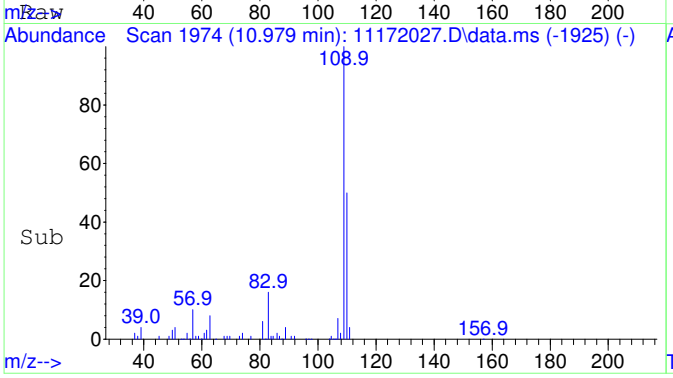


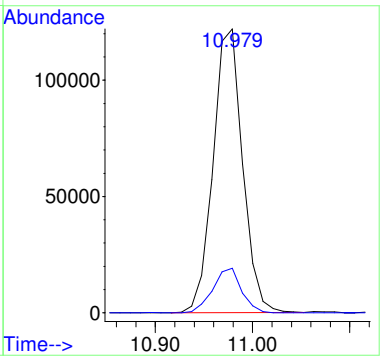


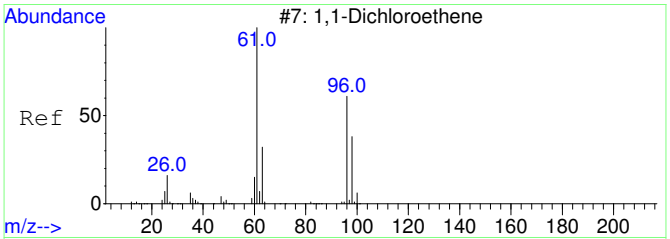
#25
2-Fluorotoluene SCAN
Concen: 4762.63 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:109 Resp: 256449

Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	43.8



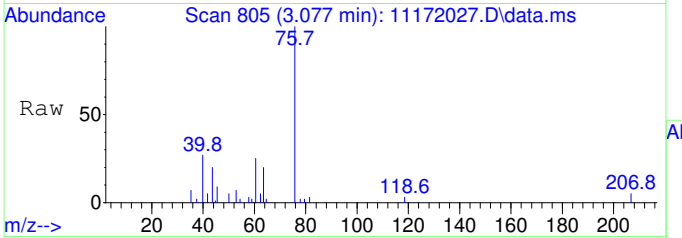


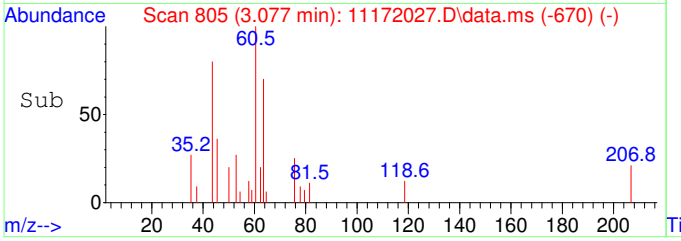


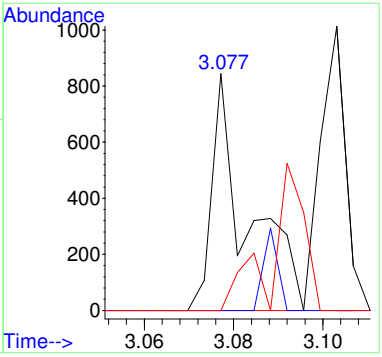
#26
1,1-Dichloroethene SCAN
Concen: 40.23 ug/L
RT: 3.077 min Scan# 805
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

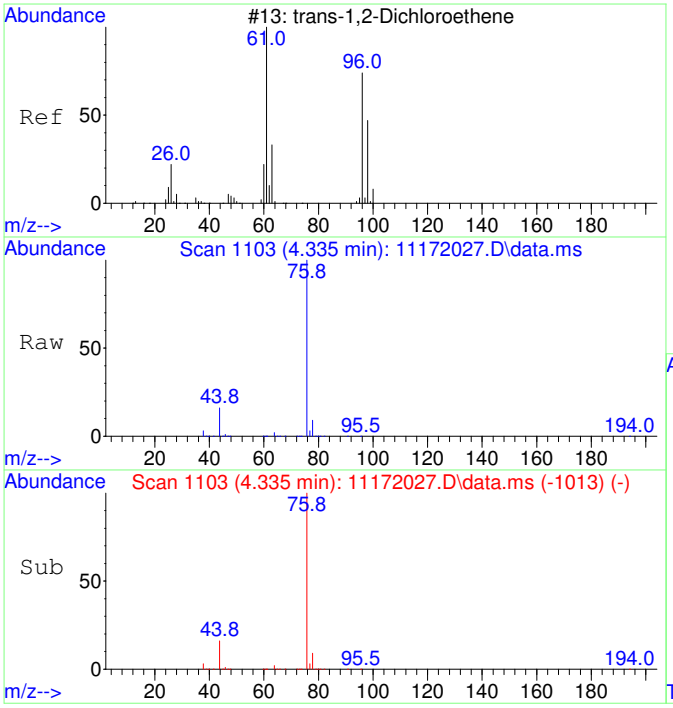
Tgt Ion: 61 Resp: 460

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.1	93.1#
98	0.0	11.2	71.2#





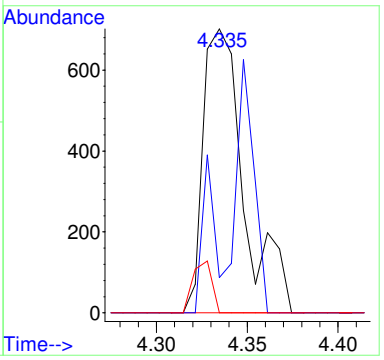


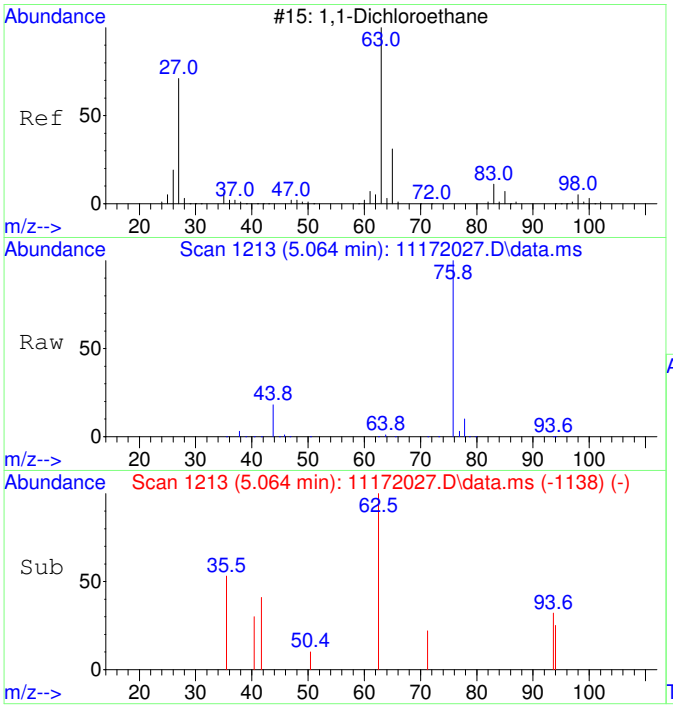


#27
trans-1,2-Dichloroethene SCAN
Concen: 77.24 ug/L
RT: 4.335 min Scan# 1103
Delta R.T. -0.013 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 61 Resp: 1093

Ion	Ratio	Lower	Upper
61	100		
96	56.4	49.0	109.0
98	8.6	20.5	80.5#

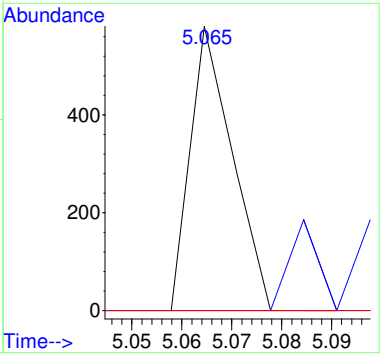


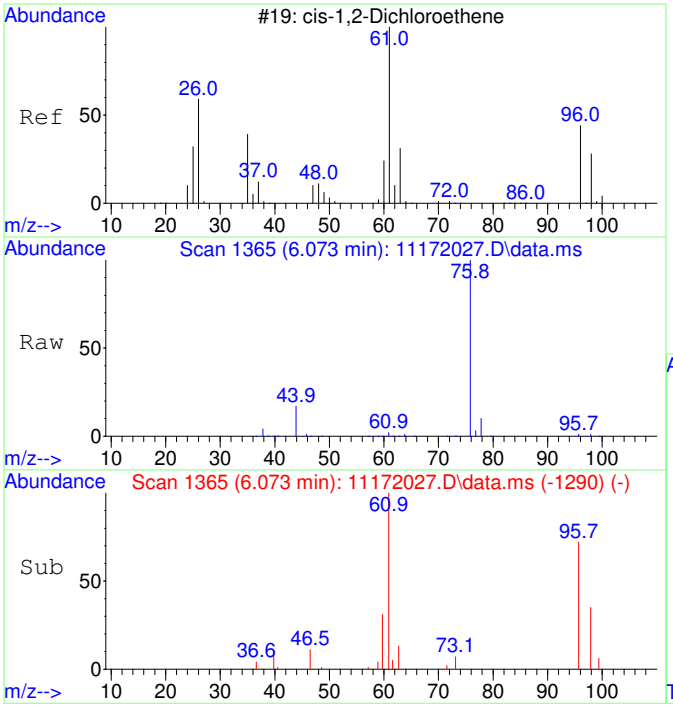


#28
1,1-Dichloroethane SCAN
Concen: 20.82 ug/L
RT: 5.064 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 63 Resp: 341

Ion	Ratio	Lower	Upper
63	100		
65	0.0	1.3	61.3#
83	0.0	0.0	45.9

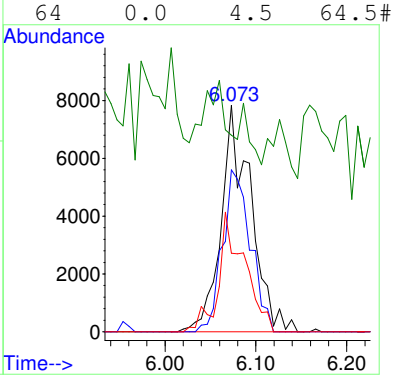


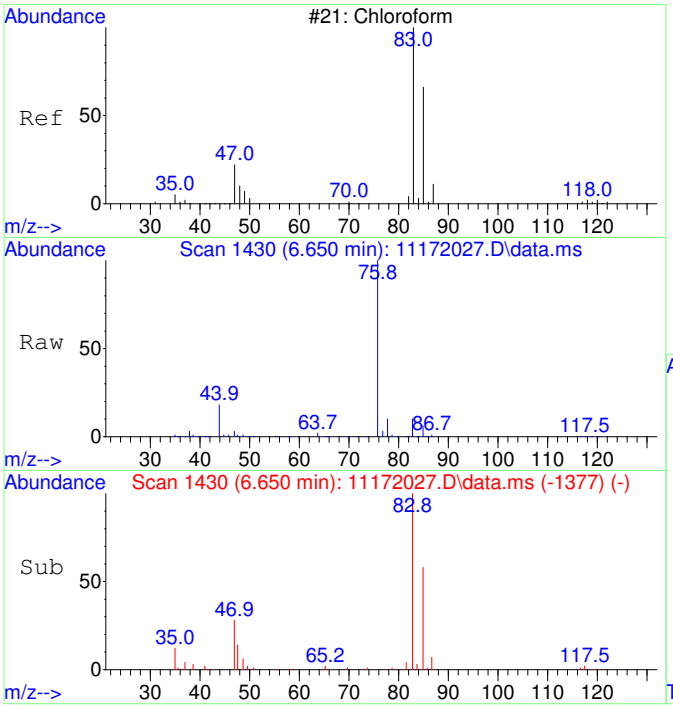


#29
cis-1,2-Dichloroethene SCAN
Concen: 1017.51 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 61 Resp: 17853

Ion	Ratio	Lower	Upper
61	100		
96	67.1	39.9	99.9
98	46.1	13.5	73.5
64	0.0	4.5	64.5#

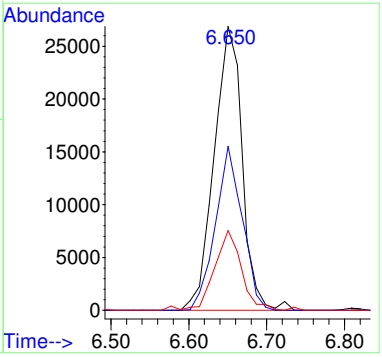


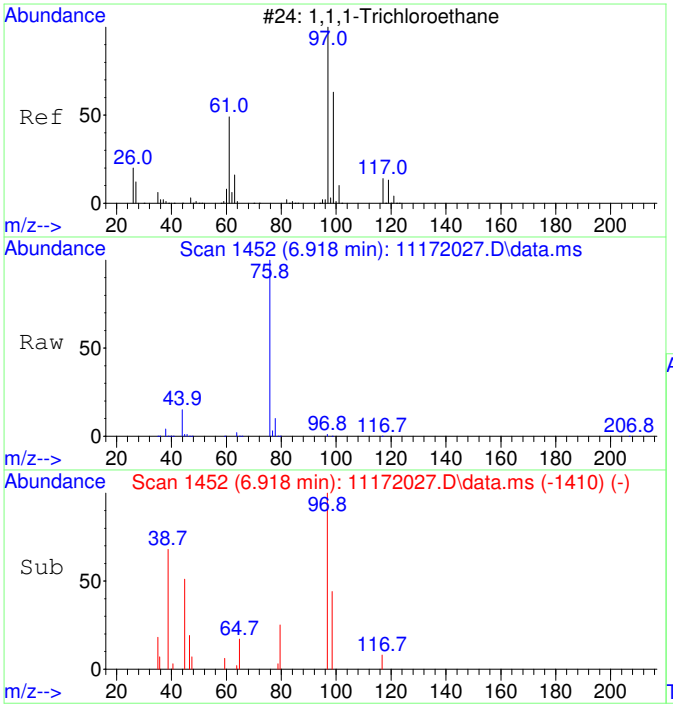


#30
Chloroform SCAN
Concen: 3539.42 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 83 Resp: 67358

Ion	Ratio	Lower	Upper
83	100		
85	55.4	34.6	94.6
47	26.0	0.0	53.4

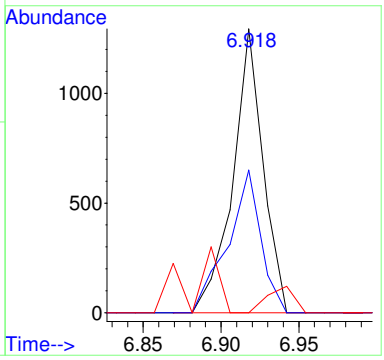


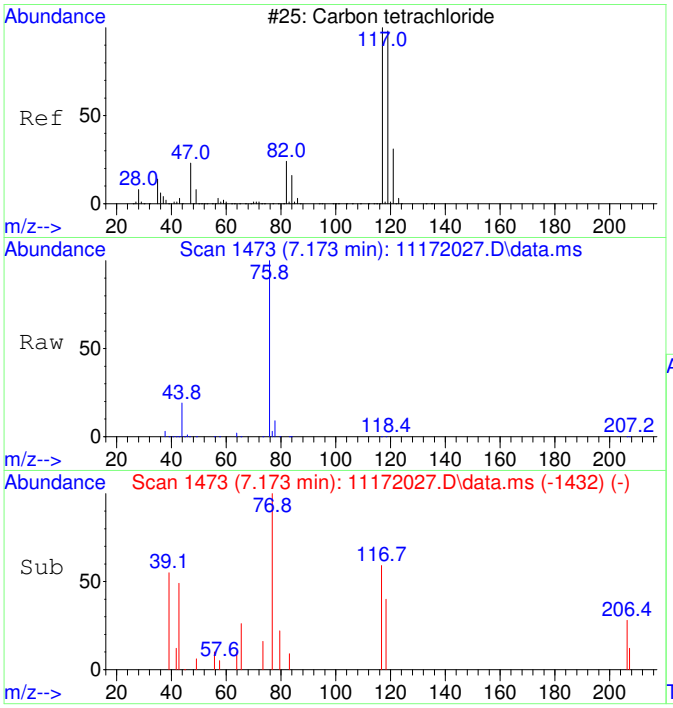


#31
1,1,1-Trichloroethane SCAN
Concen: 101.20 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 97 Resp: 1755

Ion	Ratio	Lower	Upper
97	100		
99	55.0	43.6	103.6
61	0.0	18.0	78.0#

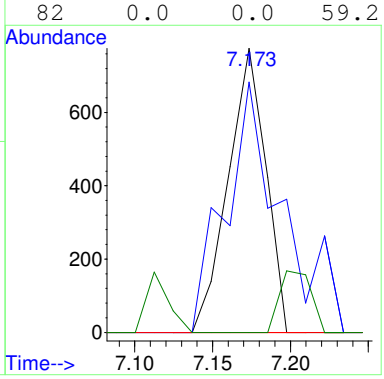


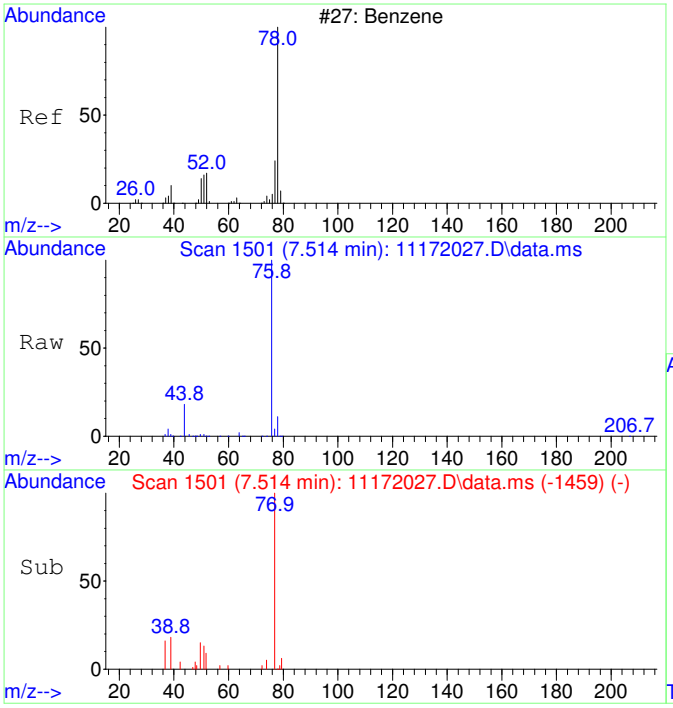


#32
Carbon tetrachloride SCAN
Concen: 72.19 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:117 Resp: 1306

Ion	Ratio	Lower	Upper
117	100		
119	131.9	75.5	135.5
121	0.0	0.0	58.8
82	0.0	0.0	59.2

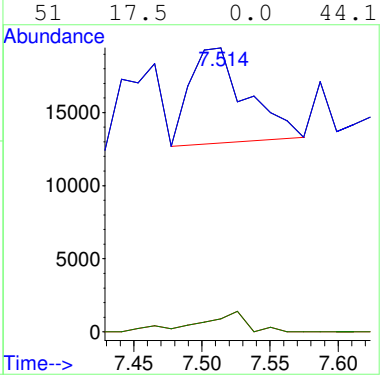


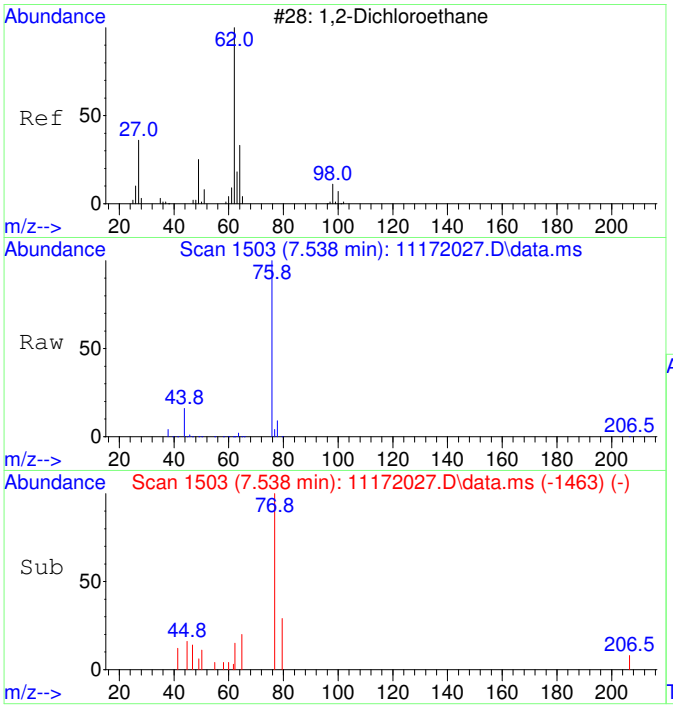


#33
Benzene SCAN
Concen: 399.87 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 78 Resp: 19094

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	17.5	0.0	47.9
51	17.5	0.0	44.1

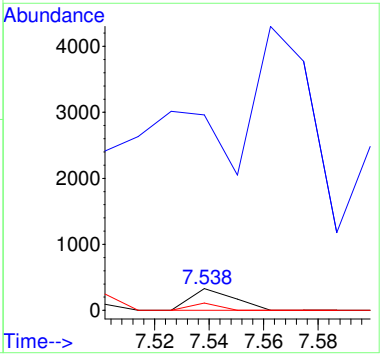


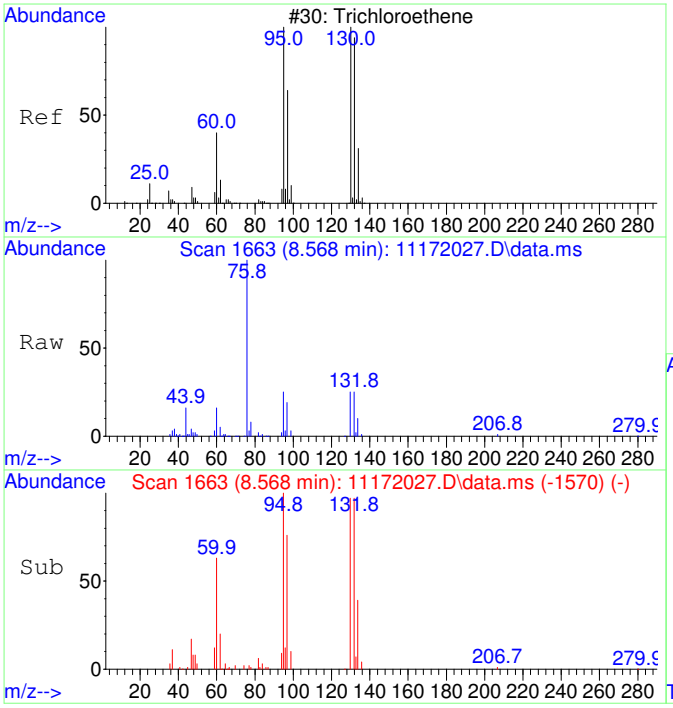


#34
1,2-Dichloroethane SCAN
Concen: 20.70 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 62 Resp: 365

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	21.9	3.9	63.9

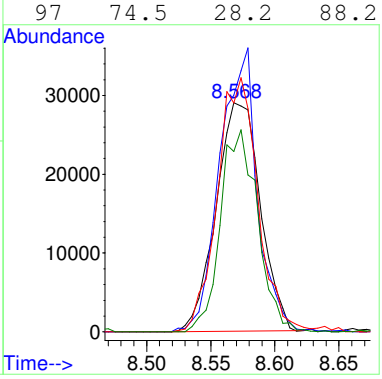


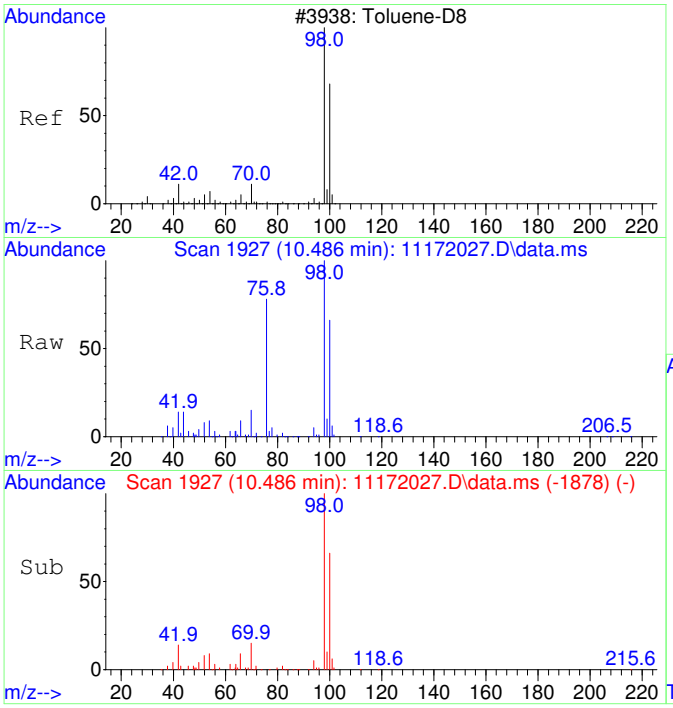


#35
Trichloroethene SCAN
Concen: 5298.33 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:130 Resp: 69525

Ion	Ratio	Lower	Upper
130	100		
95	104.5	60.5	120.5
132	102.9	59.6	119.6
97	74.5	28.2	88.2

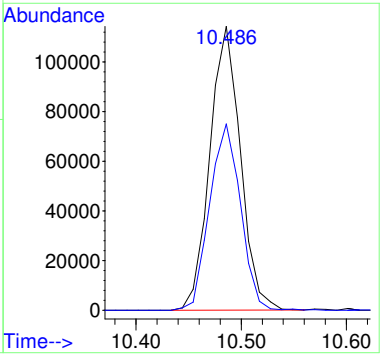


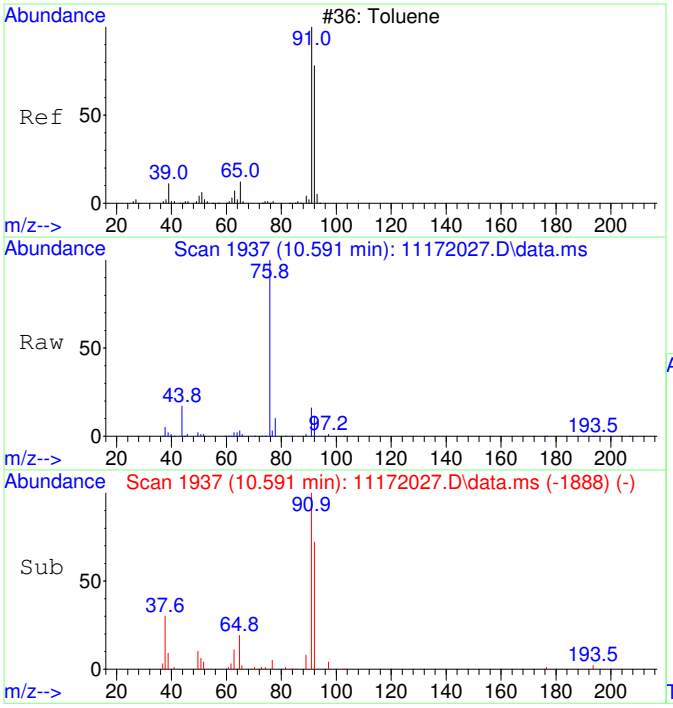


#36
Toluene-d8 SCAN
Concen: 4393.90 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 98 Resp: 231382

Ion	Ratio	Lower	Upper
98	100		
100	66.2	40.0	100.0

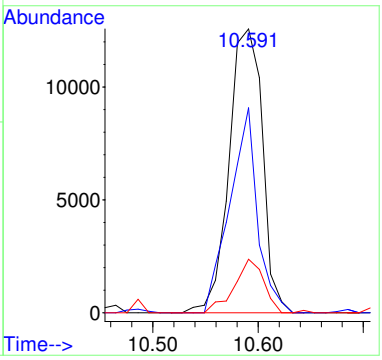


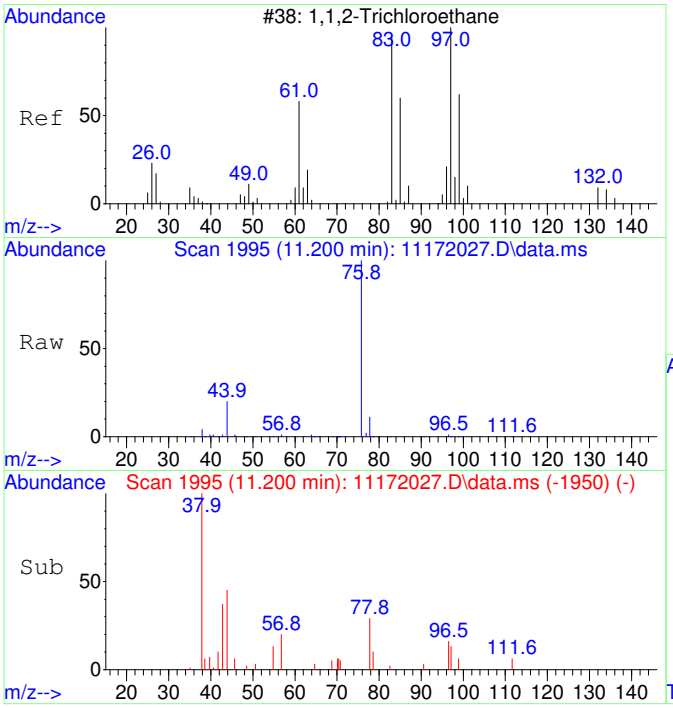


#37
Toluene SCAN
Concen: 412.03 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 27787

Ion	Ratio	Lower	Upper
91	100		
92	60.0	28.3	88.3
65	16.6	0.0	41.0

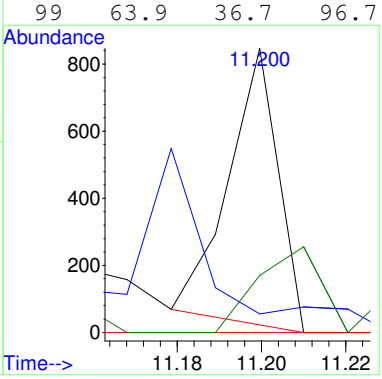


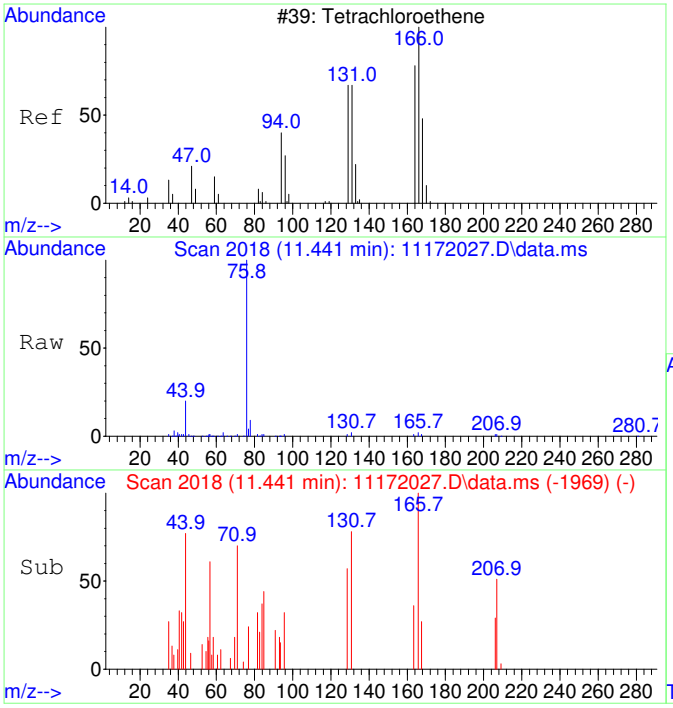


#38
1,1,2-Trichloroethane SCAN
Concen: 43.14 ug/L
RT: 11.200 min Scan# 1995
Delta R.T. -0.032 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 97 Resp: 653

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	63.9	36.7	96.7

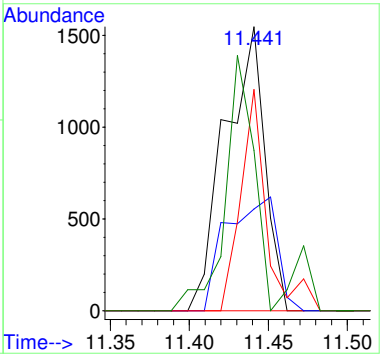


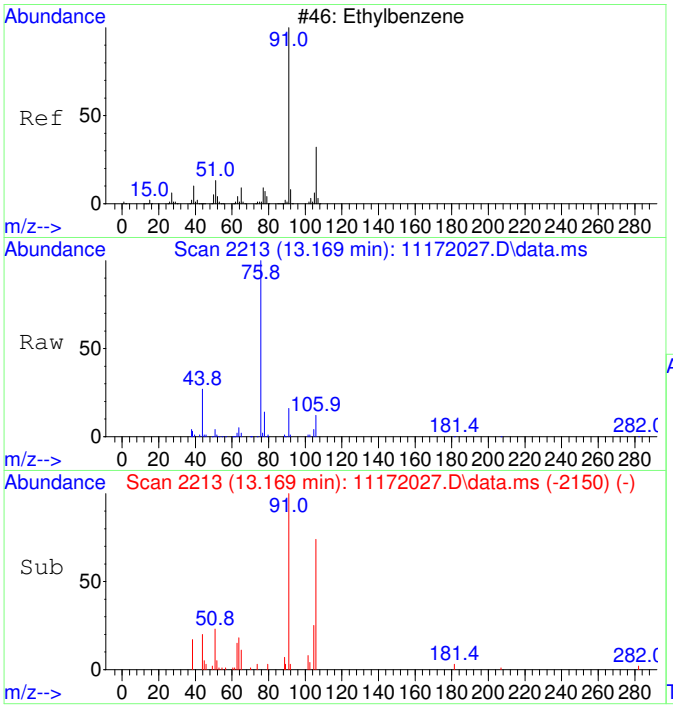


#39
Tetrachloroethene SCAN
Concen: 167.70 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:166 Resp: 2717

Ion	Ratio	Lower	Upper
166	100		
164	51.1	50.9	110.9
131	50.6	38.7	98.7
129	0.0	41.8	101.8#

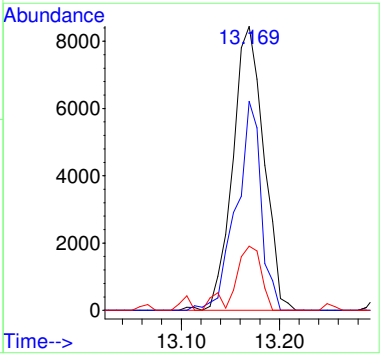


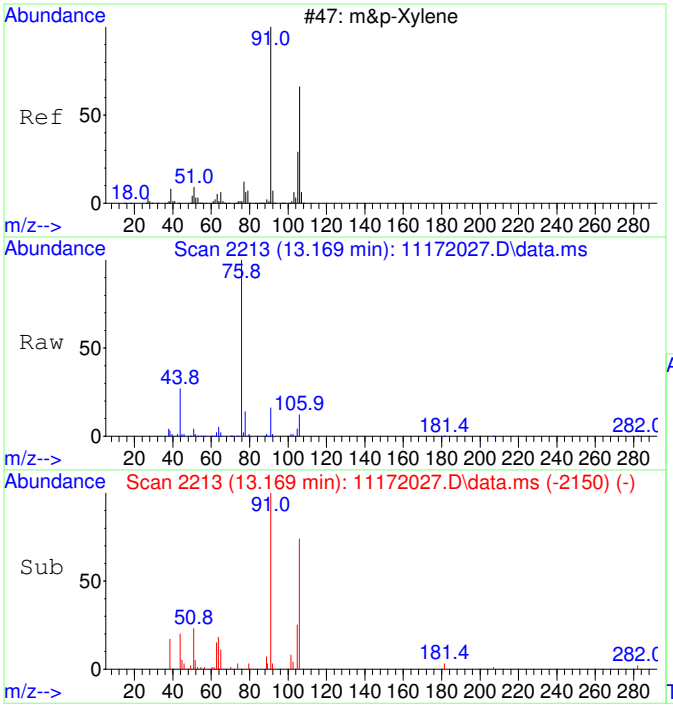


#42
Ethylbenzene SCAN
Concen: 150.45 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 18485

Ion	Ratio	Lower	Upper
91	100		
106	58.8	23.1	83.1
51	19.3	0.0	40.1

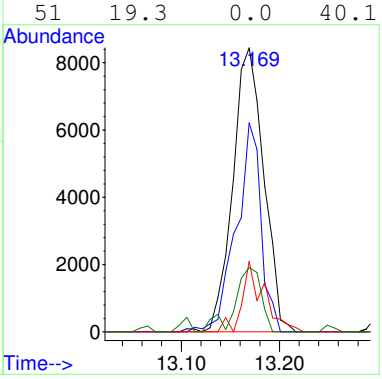


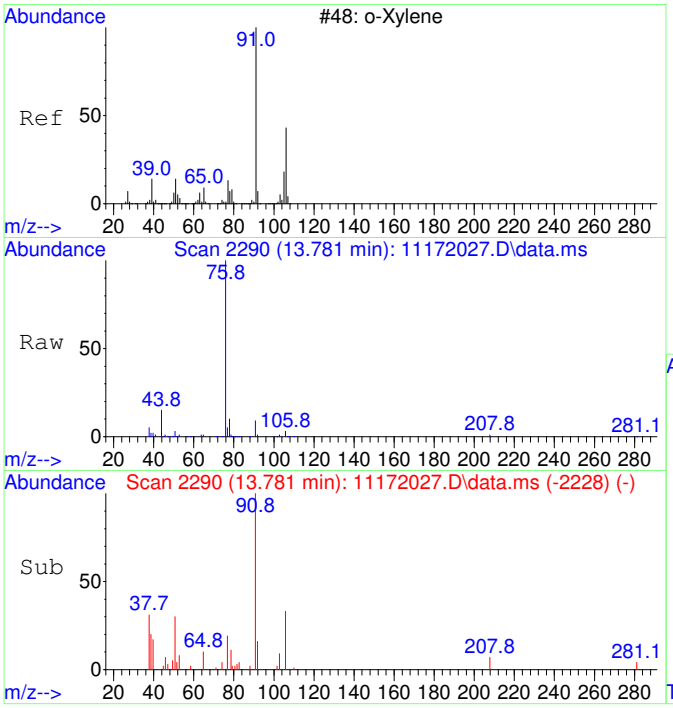


#43
m&p-Xylene SCAN
Concen: 150.45 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 18485

Ion	Ratio	Lower	Upper
91	100		
106	58.8	23.1	83.1
105	17.6	0.0	54.7
51	19.3	0.0	40.1

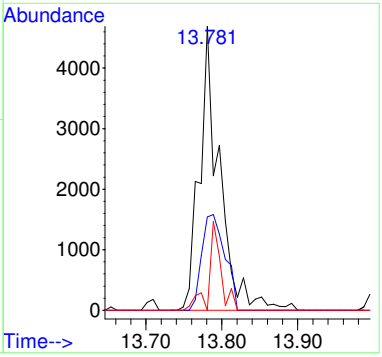


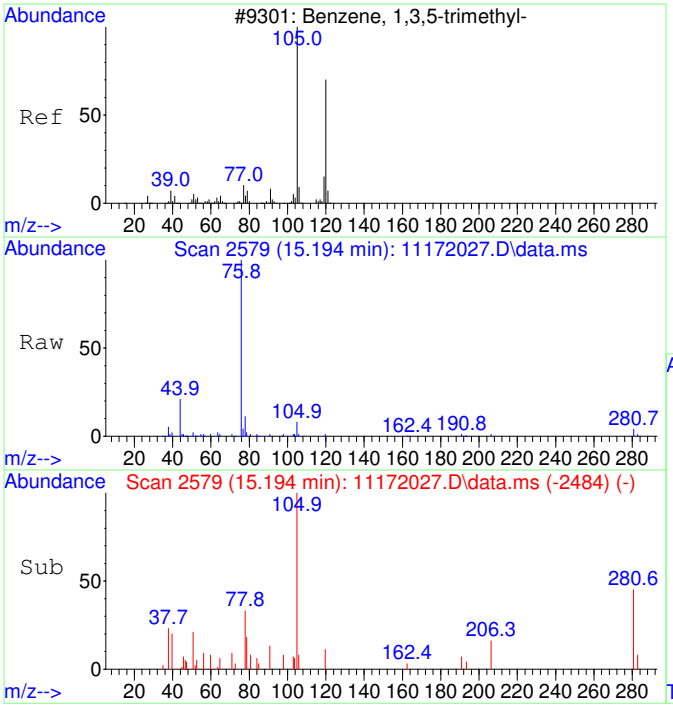


#44
o-Xylene SCAN
Concen: 130.78 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion: 91 Resp: 8601

Ion	Ratio	Lower	Upper
91	100		
106	39.0	18.0	78.0
105	18.8	0.0	56.6

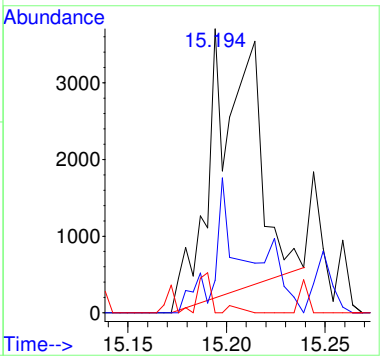


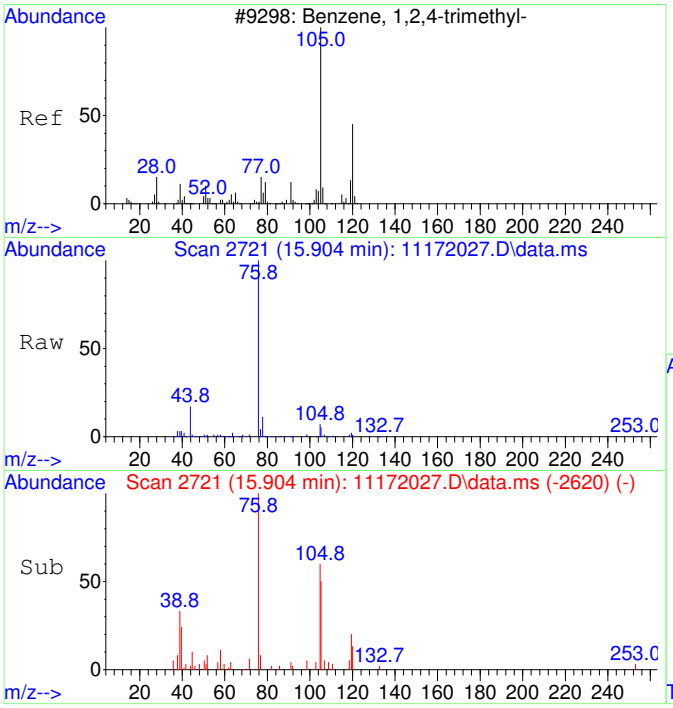


#46
1,3,5-Trimethylbenzene SCAN
Concen: 66.73 ug/L
RT: 15.194 min Scan# 2579
Delta R.T. -0.149 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:105 Resp: 4625

Ion	Ratio	Lower	Upper
105	100		
120	43.2	18.3	78.3
119	4.7	0.0	43.1

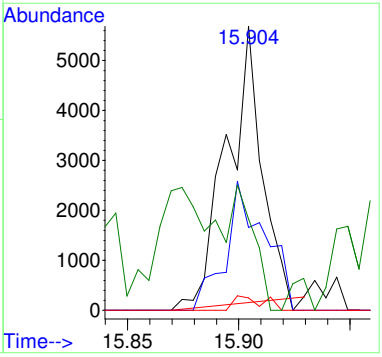




#47
1,2,4-Trimethylbenzene SCAN
Concen: 84.80 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172027.D
Acq: 17 Nov 2020 18:09

Tgt Ion:105 Resp: 6014

Ion	Ratio	Lower	Upper
105	100		
120	53.0	16.9	76.9
119	4.4	0.0	41.9
77	0.0	0.0	42.3



2011017-17

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172028.D
Acq On : 17 Nov 2020 18:33
InstName : AG5975C
Operator : TD
Sample : 2011017-17
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 18 06:17:07 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

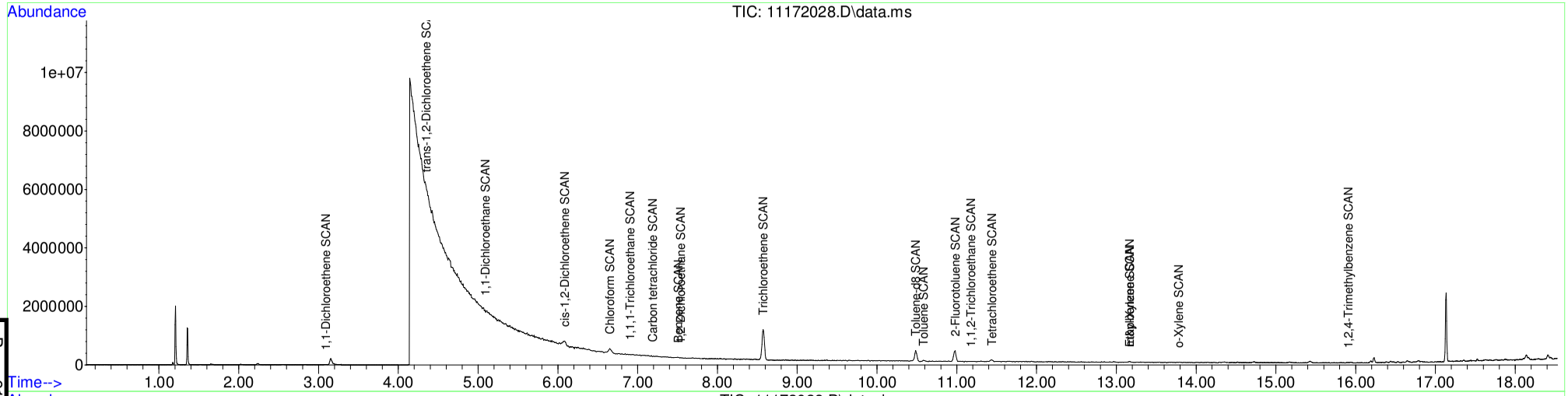
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	622355	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	531885	4365.70 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.31%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	10602	426.61 ug/L	87
3] trans-1,2-Dichloroethene	4.356	61	12588	438.41 ug/L	96
4] 1,1-Dichloroethane	5.072	63	12813	358.49 ug/L	94
5] cis-1,2-Dichloroethene	6.081	61	234724	6221.46 ug/L	99
6] Chloroform	6.651	83	254640	6594.13 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	8427	200.94 ug/L	100
8] Carbon tetrachloride	7.187	117	4313	109.27 ug/L	99
9] Benzene	7.503	78	22957	217.10 ug/L	71
10] 1,2-Dichloroethane	7.552	62	2165	57.35 ug/L #	1
11] Trichloroethene	8.575	130	789768	24806.29 ug/L	94
13] Toluene	10.582	91	41734	268.69 ug/L	97
15] Tetrachloroethene	11.432	166	36914	821.21 ug/L	100
18] Ethylbenzene	12.972	91	12204	64.55 ug/L	96
19] m&p-Xylene	13.162	91	28326	191.70 ug/L	95
20] o-Xylene	13.782	91	11461	72.60 ug/L	96
22] 1,3,5-Trimethylbenzene	15.350	105	3363	20.01 ug/L	94
23] 1,2,4-Trimethylbenzene	15.901	105	11035	63.23 ug/L	93
25) 2-Fluorotoluene SCAN	10.979	109	301254	4965.61 ug/L	96
26) 1,1-Dichloroethene SCAN	3.088	61	2885	223.92 ug/L #	72
27) trans-1,2-Dichloroethe...	4.348	61	6457	405.00 ug/L	81
28) 1,1-Dichloroethane SCAN	5.084	63	5611	304.10 ug/L	71
29) cis-1,2-Dichloroethene...	6.080	61	128441	6497.19 ug/L #	86
30) Chloroform SCAN	6.650	83	141393	6594.24 ug/L	94
31) 1,1,1-Trichloroethane ...	6.906	97	4582	234.50 ug/L	88
32) Carbon tetrachloride SCAN	7.185	117	1969	96.61 ug/L #	48
33) Benzene SCAN	7.514	78	23904	444.31 ug/L	98
34) 1,2-Dichloroethane SCAN	7.538	62	984	49.53 ug/L #	1
35) Trichloroethene SCAN	8.573	130	371103	25100.73 ug/L	87
36) Toluene-d8 SCAN	10.486	98	261843	4413.21 ug/L	94
37) Toluene SCAN	10.580	91	25409	334.40 ug/L	93
38) 1,1,2-Trichloroethane ...	11.179	97	847	49.66 ug/L #	49
39) Tetrachloroethene SCAN	11.441	166	16669	913.14 ug/L	92
42) Ethylbenzene SCAN	13.169	91	18440	133.21 ug/L	78
43) m&p-Xylene SCAN	13.169	91	18440	133.21 ug/L	82
44) o-Xylene SCAN	13.781	91	6699	90.41 ug/L	82
47) 1,2,4-Trimethylbenzene...	15.904	105	5850	73.21 ug/L	83

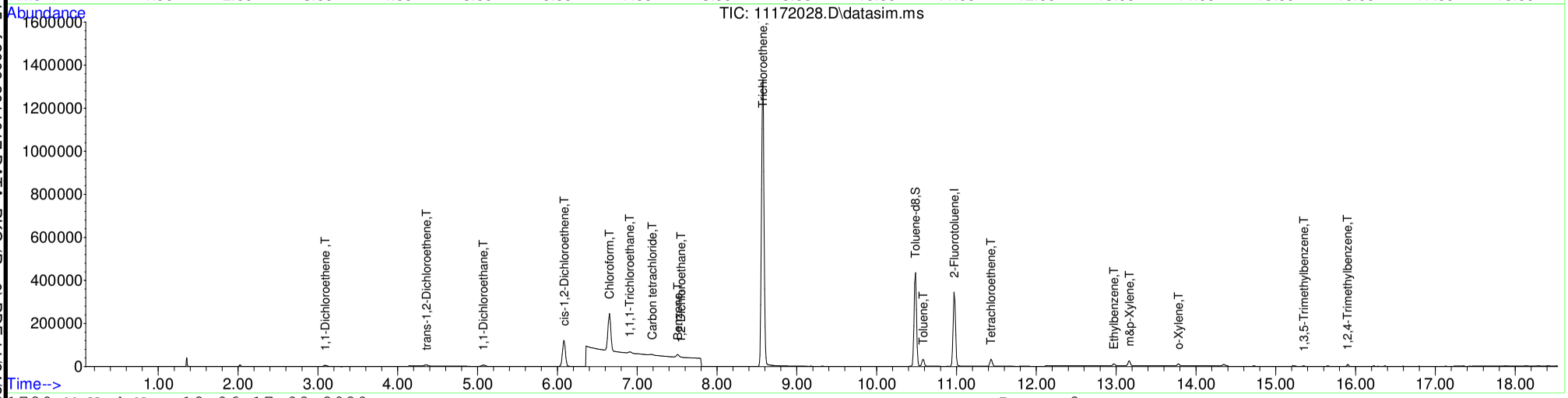
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172028.D
Acq On : 17 Nov 2020 18:33
InstName : AG5975C
Operator : TD
Sample : 2011017-17
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 18 06:17:07 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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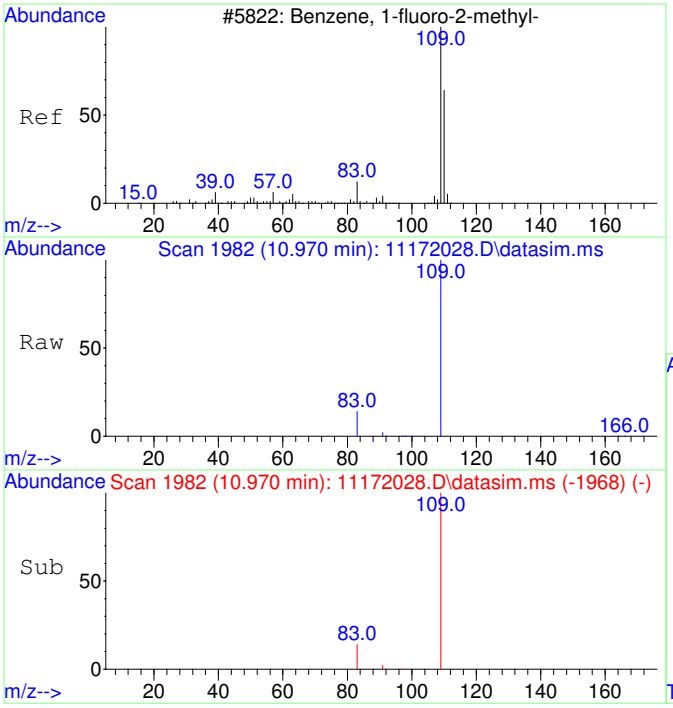
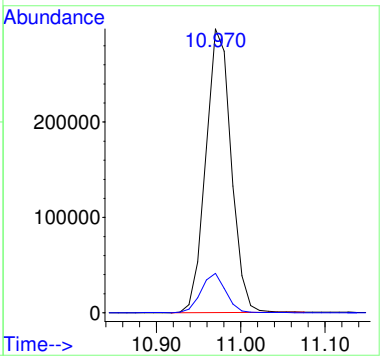
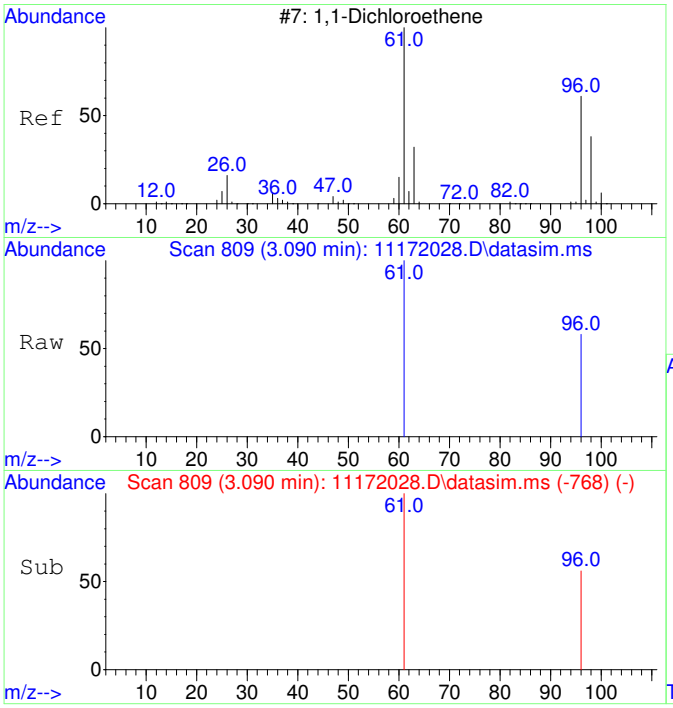


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:109 Resp: 622355

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

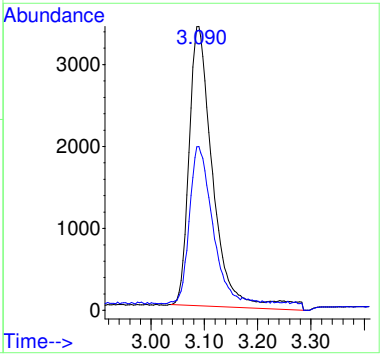




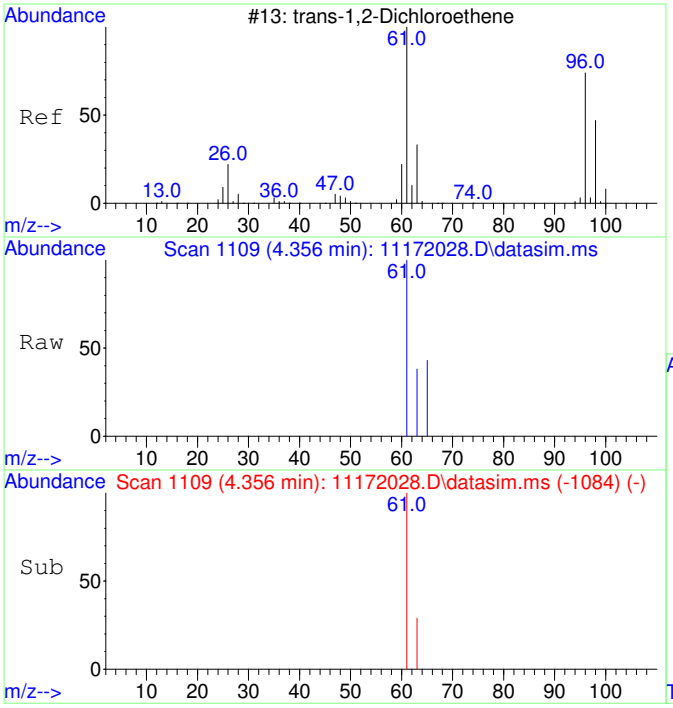
#2
1,1-Dichloroethene
Concen: 426.61 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 61 Resp: 10602

Ion	Ratio	Lower	Upper
61	100		
96	56.5	37.2	97.2



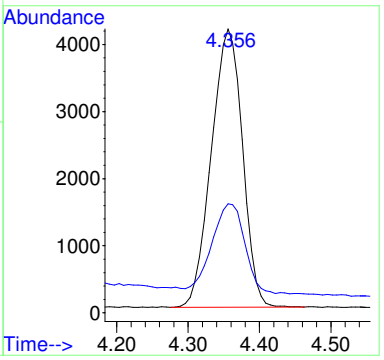
Before MI:
IMPROPER
BASELINE

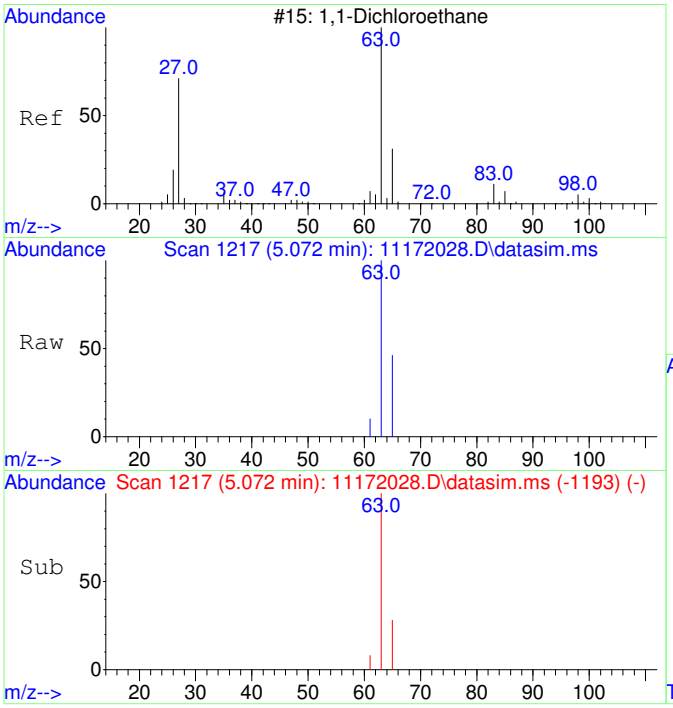


#3
trans-1,2-Dichloroethene
Concen: 438.41 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 61 Resp: 12588

Ion	Ratio	Lower	Upper
61	100		
63	34.8	2.4	62.4

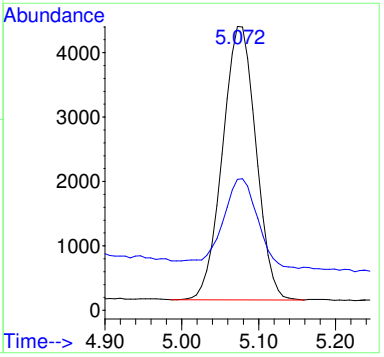


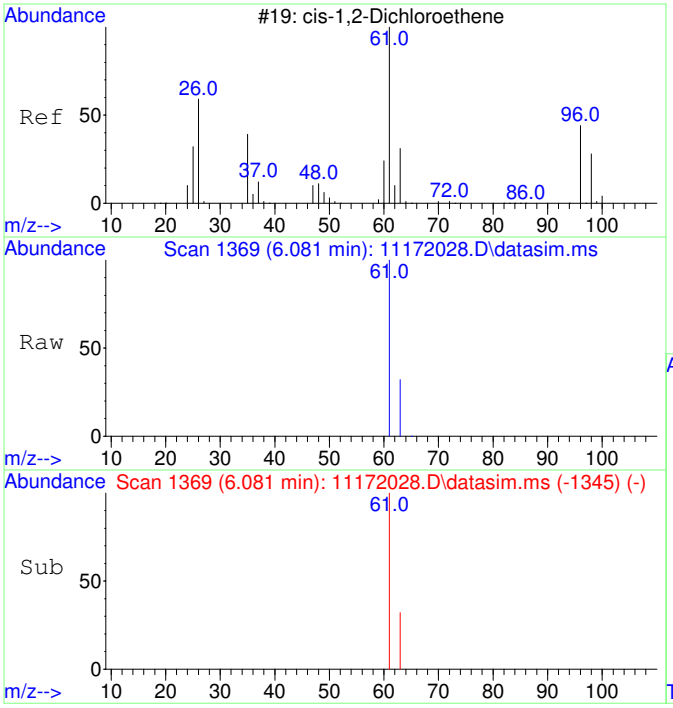


#4
1,1-Dichloroethane
Concen: 358.49 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.006 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 63 Resp: 12813

Ion	Ratio	Lower	Upper
63	100		
65	35.2	1.8	61.8

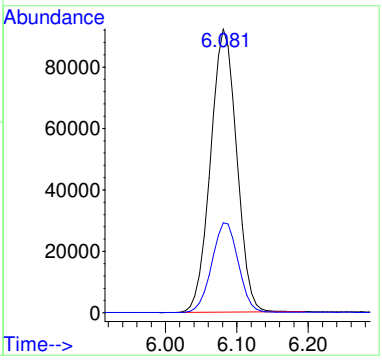


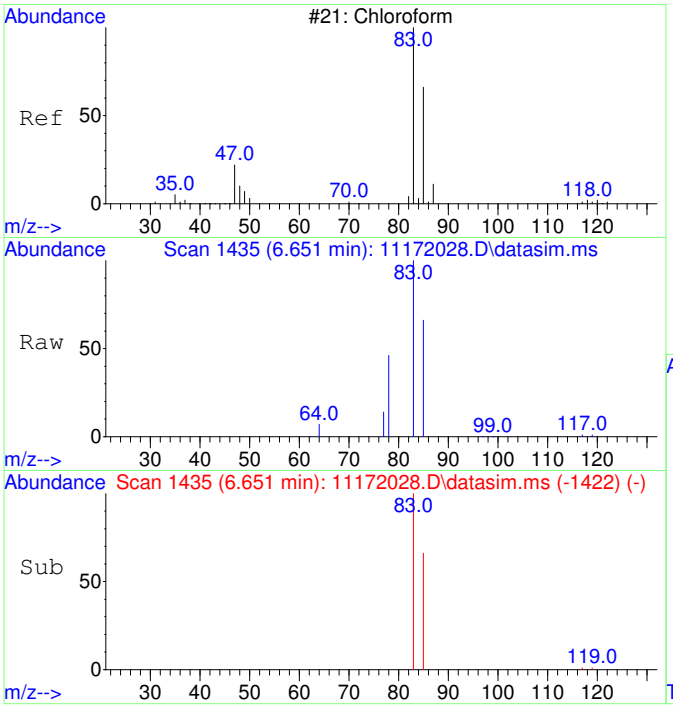


#5
cis-1,2-Dichloroethene
Concen: 6221.46 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.006 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 61 Resp: 234724

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

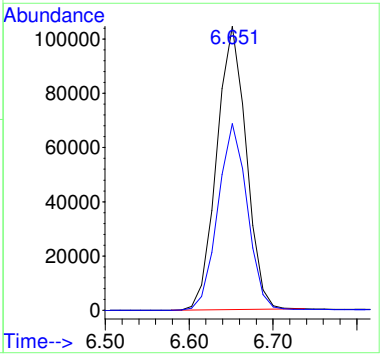


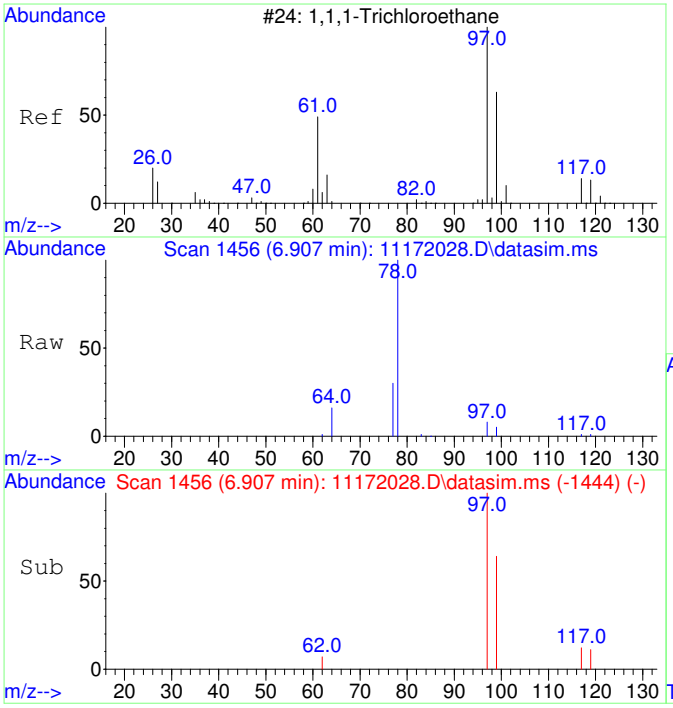


#6
Chloroform
Concen: 6594.13 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 83 Resp: 254640

Ion	Ratio	Lower	Upper
83	100		
85	65.1	35.1	95.1

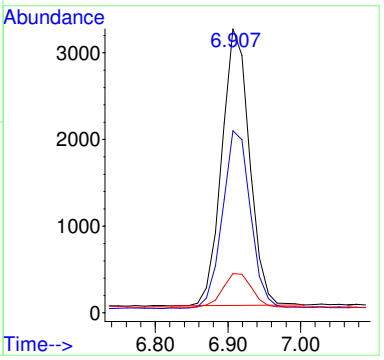


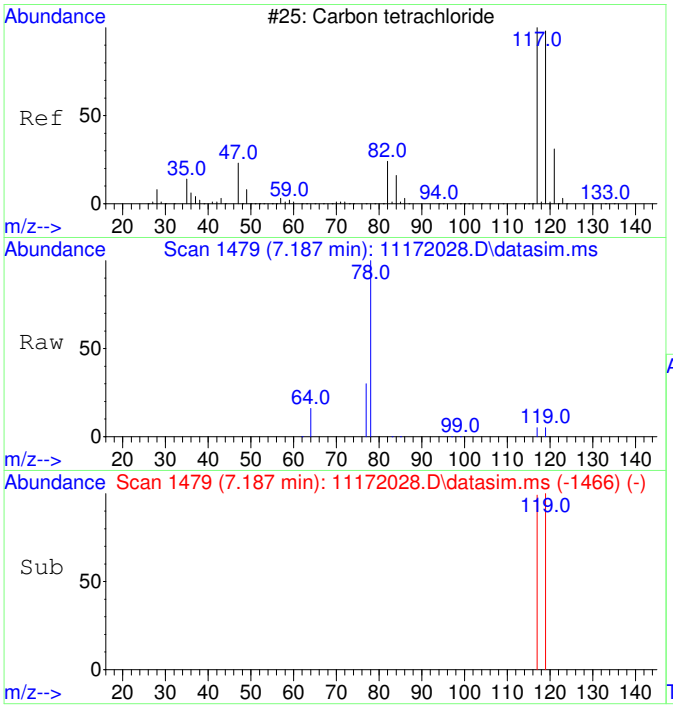


#7
1,1,1-Trichloroethane
Concen: 200.94 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 97 Resp: 8427

Ion	Ratio	Lower	Upper
97	100		
99	64.5	34.6	94.6
117	12.8	0.0	43.2

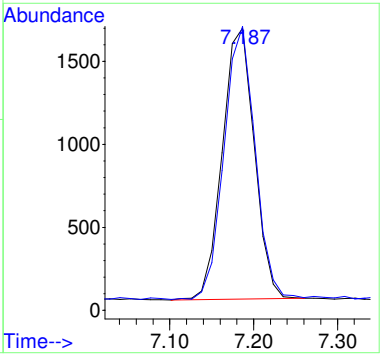


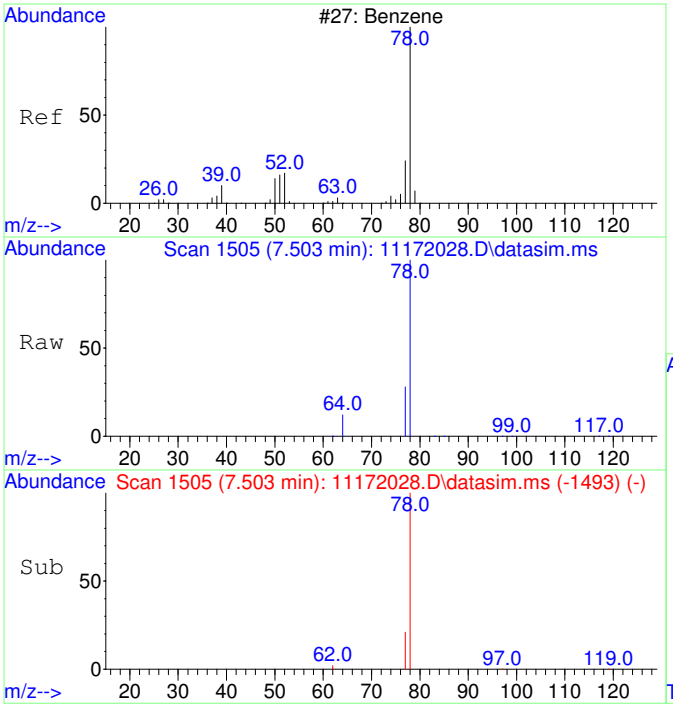


#8
Carbon tetrachloride
Concen: 109.27 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:117 Resp: 4313

Ion	Ratio	Lower	Upper
117	100		
119	97.0	66.4	126.4

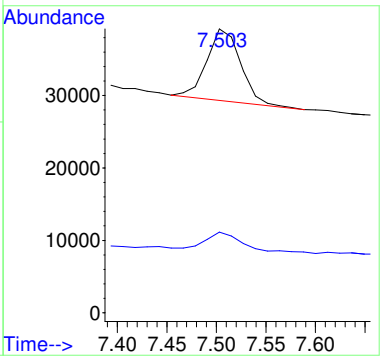


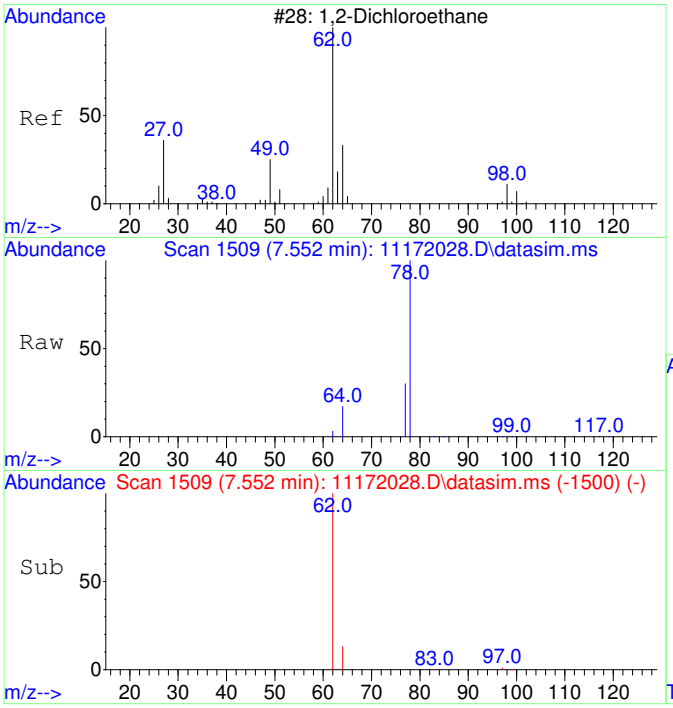


#9
Benzene
Concen: 217.10 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 78 Resp: 22957

Ion	Ratio	Lower	Upper
78	100		
77	37.5	0.0	53.2

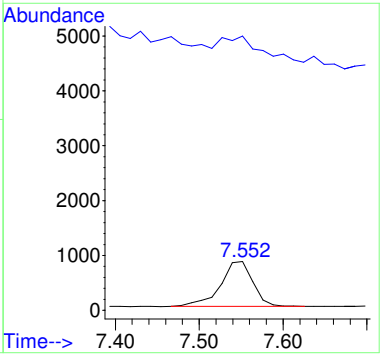


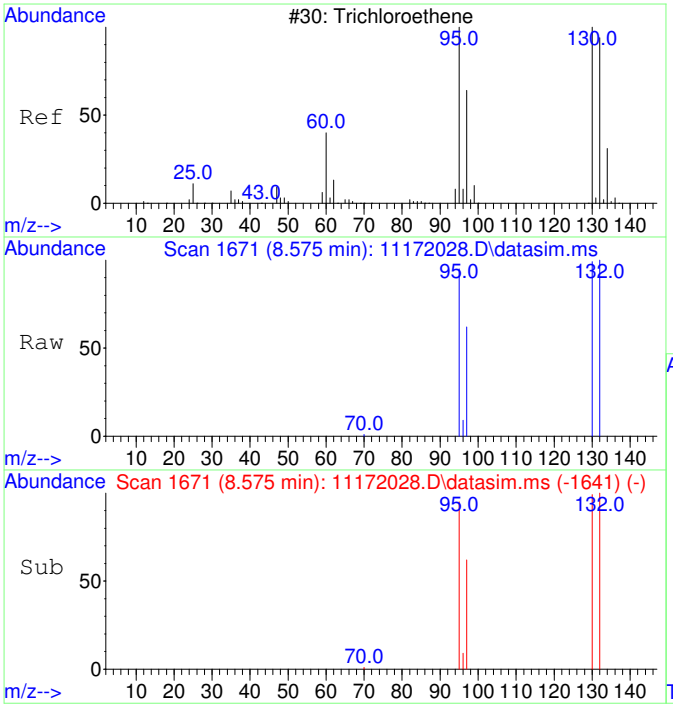


#10
1,2-Dichloroethane
Concen: 57.35 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 62 Resp: 2165

Ion	Ratio	Lower	Upper
62	100		
64	89.7	2.3	62.3#

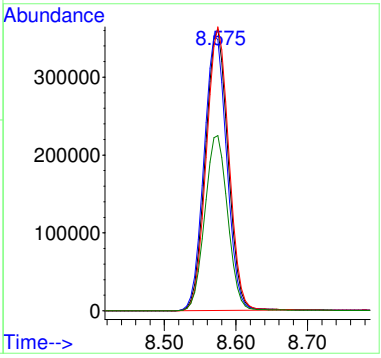


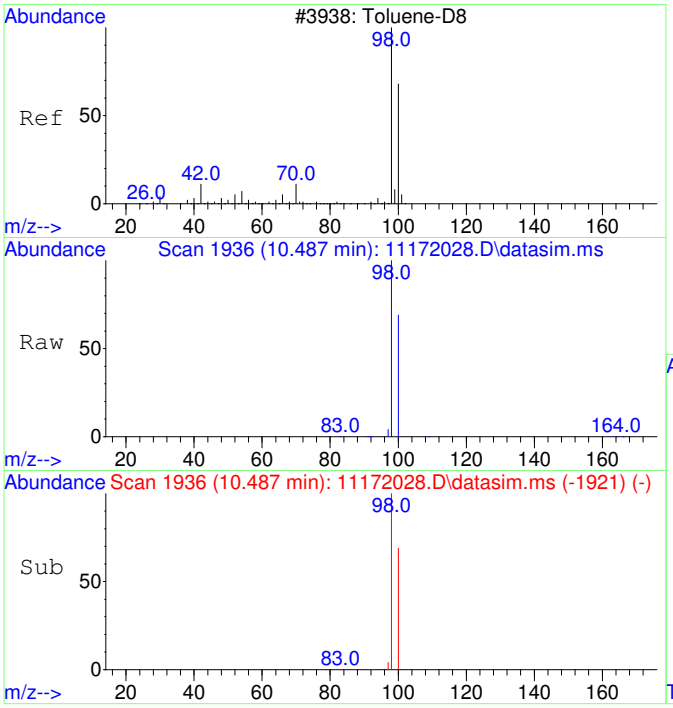


#11
Trichloroethene
Concen: 24806.29 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:130 Resp: 789768

Ion	Ratio	Lower	Upper
130	100		
95	98.4	60.7	120.7
132	100.1	76.0	116.0
97	63.0	38.6	78.6

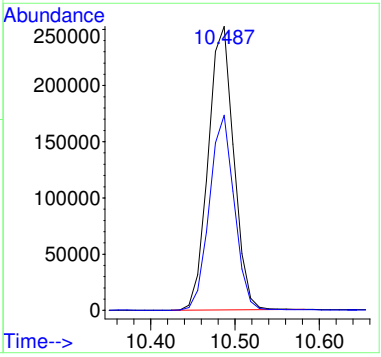


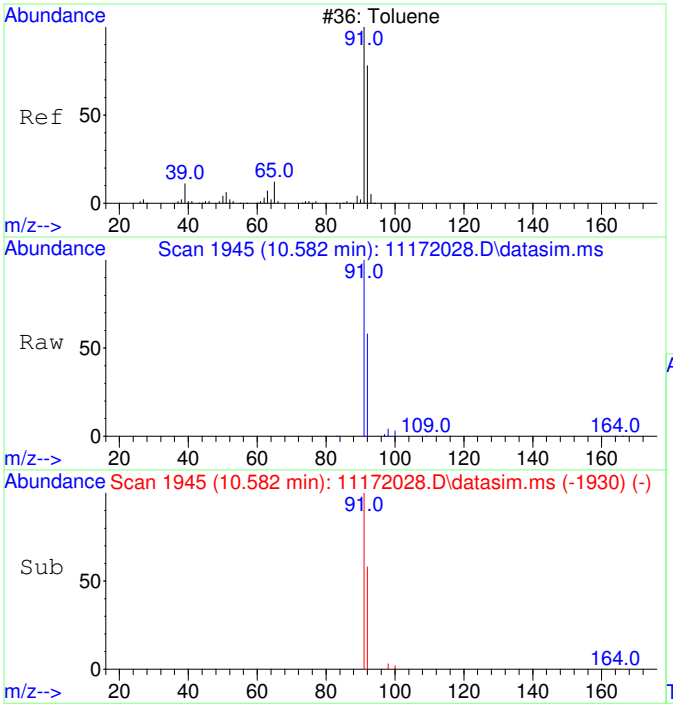


#12
Toluene-d8
Concen: 4365.70 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 98 Resp: 531885

Ion	Ratio	Lower	Upper
98	100		
100	66.7	37.1	97.1

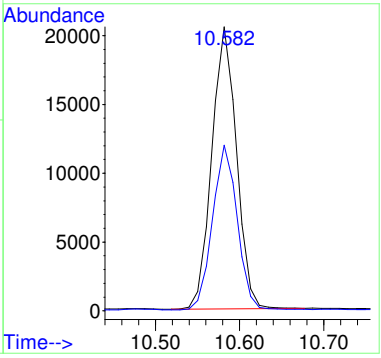


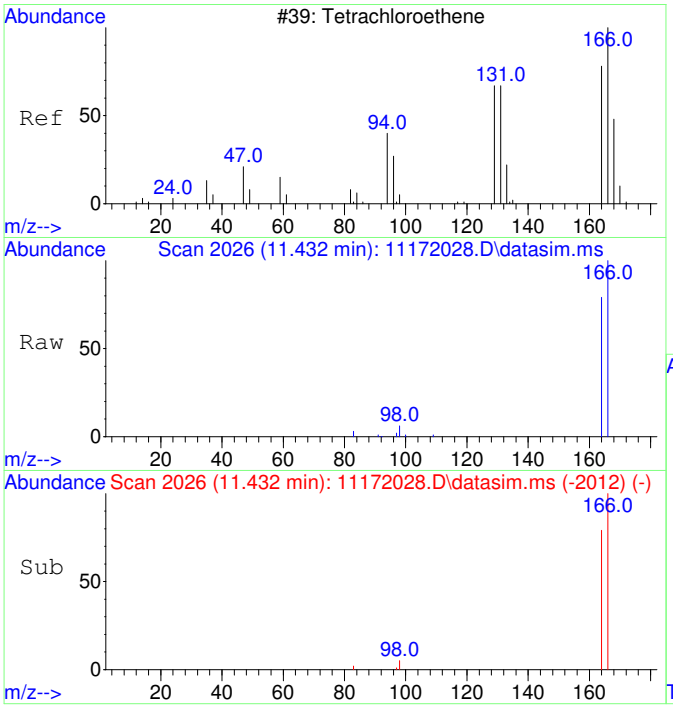


#13
Toluene
Concen: 268.69 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 41734

Ion	Ratio	Lower	Upper
91	100		
92	58.0	29.9	89.9

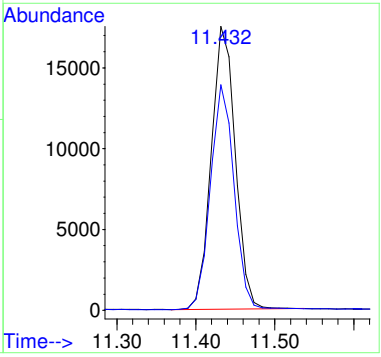


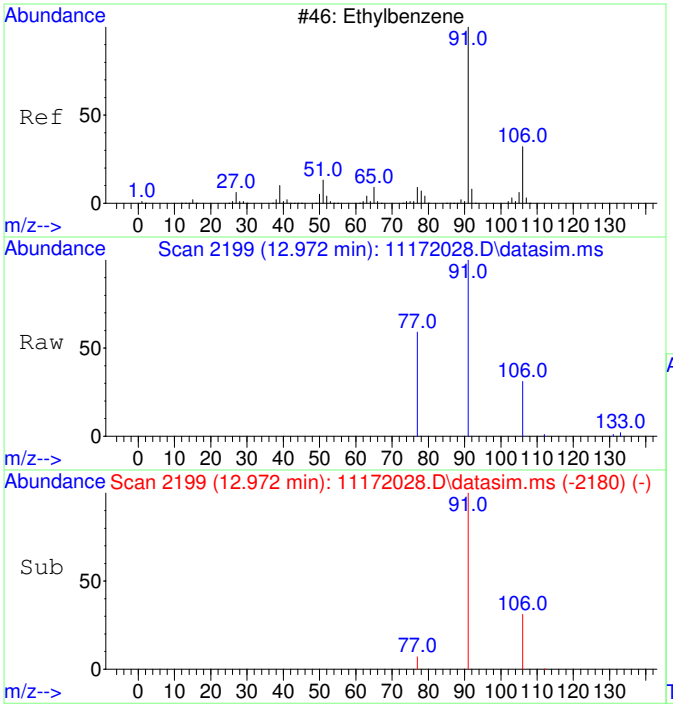


#15
Tetrachloroethene
Concen: 821.21 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:166 Resp: 36914

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

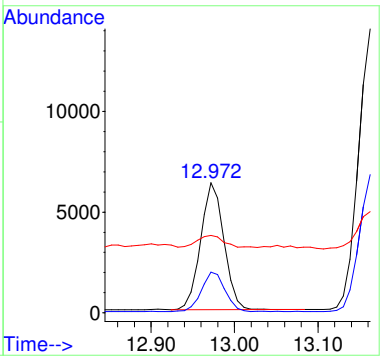


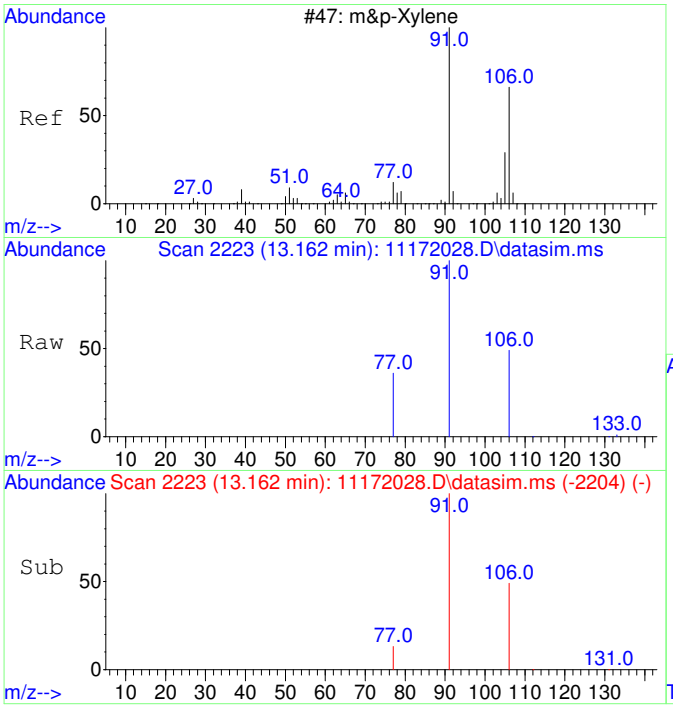


#18
Ethylbenzene
Concen: 64.55 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 12204

Ion	Ratio	Lower	Upper
91	100		
106	31.4	3.0	63.0
77	10.8	0.0	38.2

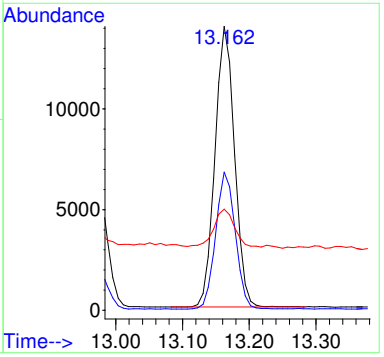


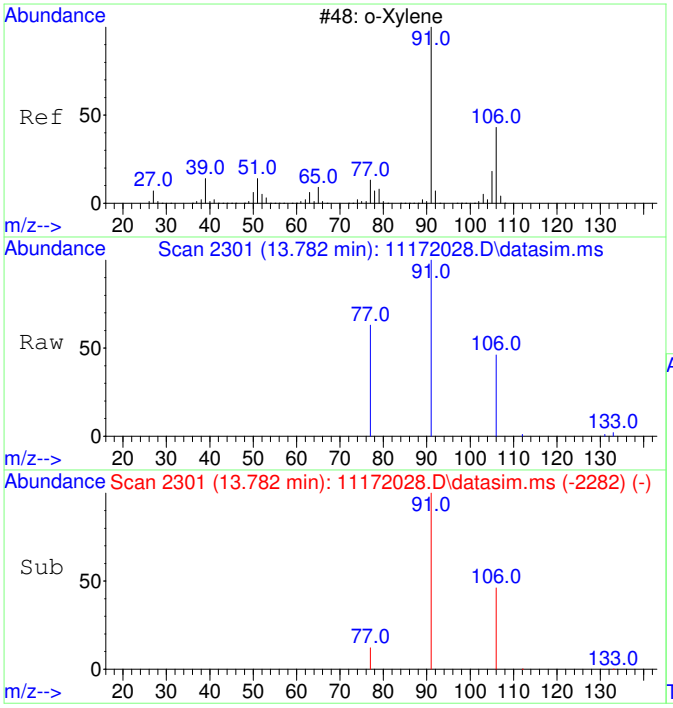


#19
m&p-Xylene
Concen: 191.70 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 28326

Ion	Ratio	Lower	Upper
91	100		
106	48.9	22.2	82.2
77	14.6	0.0	42.4

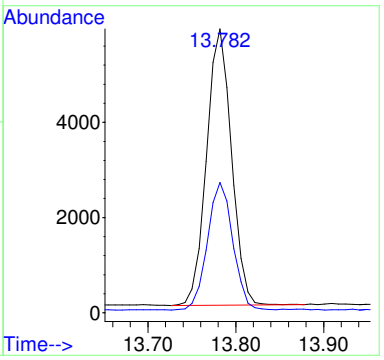


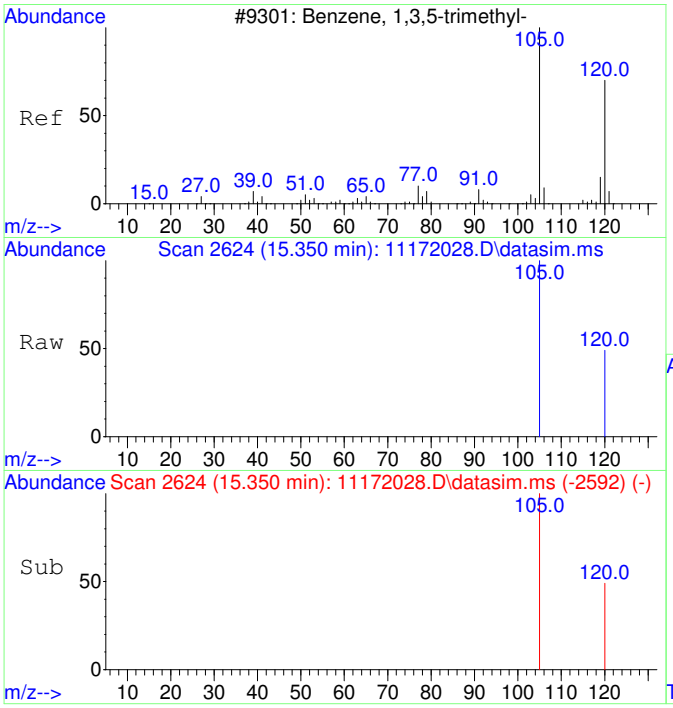


#20
o-Xylene
Concen: 72.60 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 11461

Ion	Ratio	Lower	Upper
91	100		
106	46.8	19.2	79.2

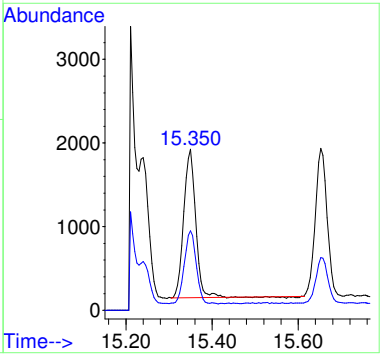


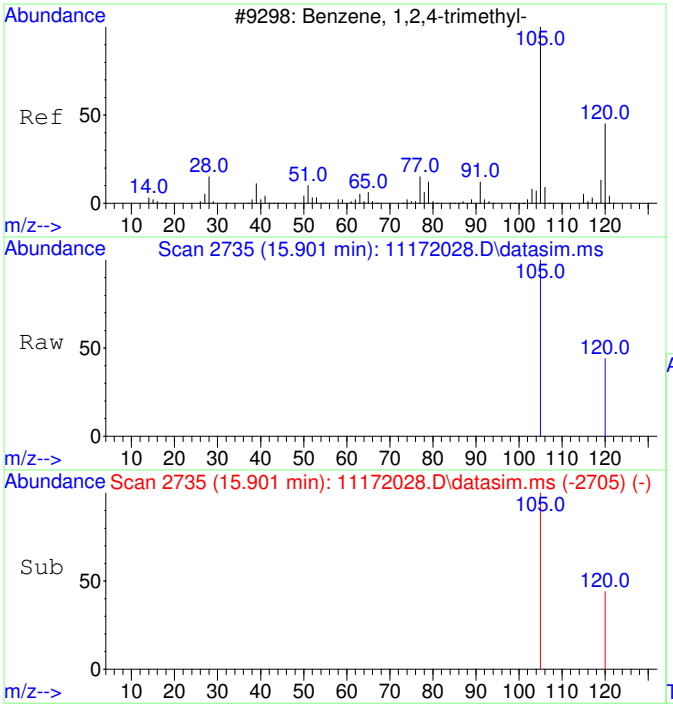


#22
1,3,5-Trimethylbenzene
Concen: 20.01 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:105 Resp: 3363

Ion	Ratio	Lower	Upper
105	100		
120	46.8	21.1	81.1

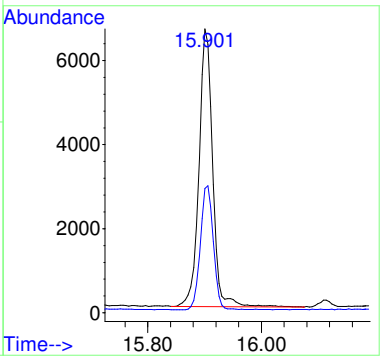


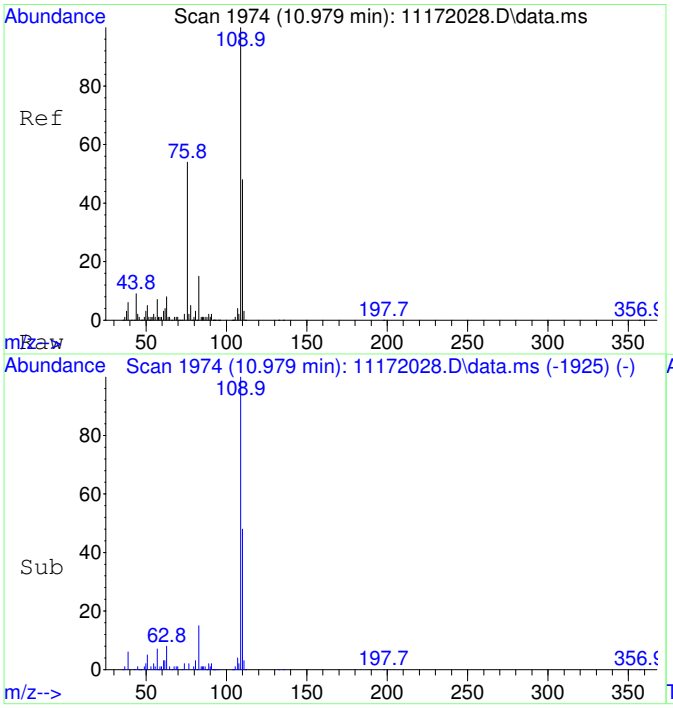


#23
1,2,4-Trimethylbenzene
Concen: 63.23 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:105 Resp: 11035

Ion	Ratio	Lower	Upper
105	100		
120	42.3	17.2	77.2

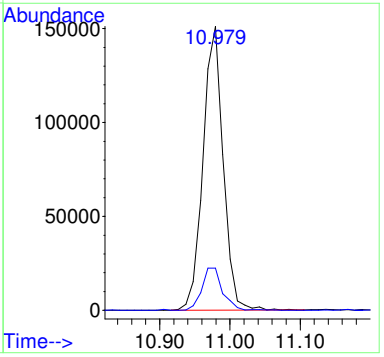


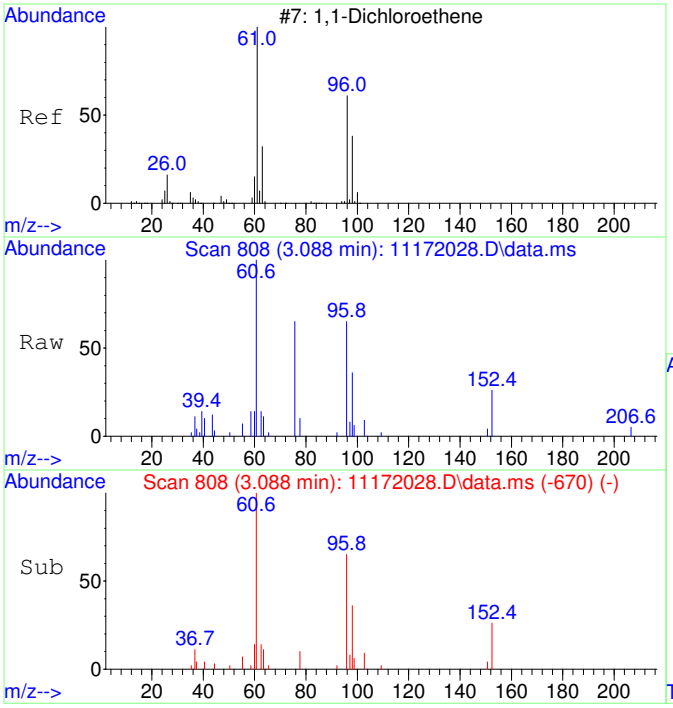


#25
2-Fluorotoluene SCAN
Concen: 4965.61 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:109 Resp: 301254

Ion	Ratio	Lower	Upper
109	100		
83	15.4	0.0	43.8

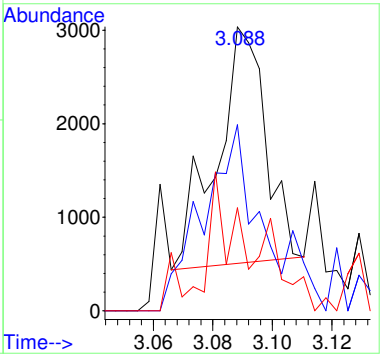


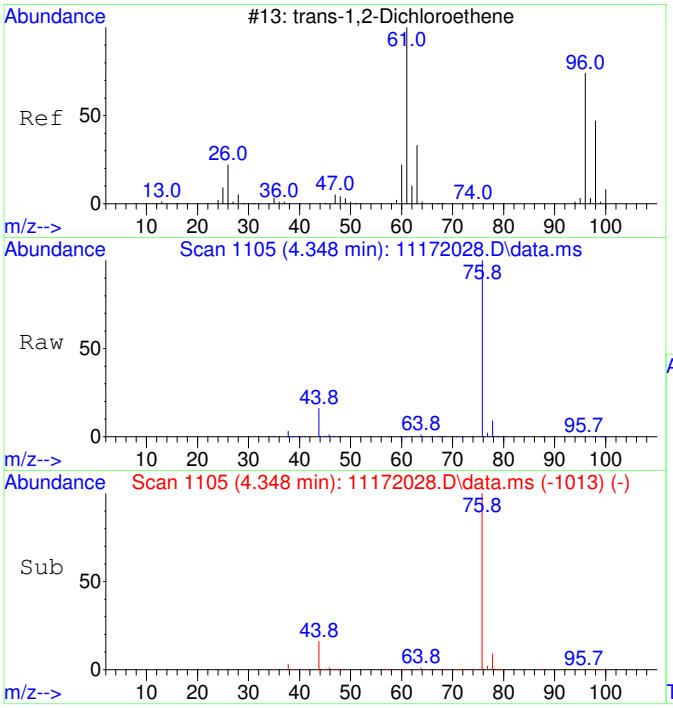


#26
1,1-Dichloroethene SCAN
Concen: 223.92 ug/L
RT: 3.088 min Scan# 808
Delta R.T. 0.011 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 61 Resp: 2885

Ion	Ratio	Lower	Upper
61	100		
96	96.8	33.1	93.1#
98	43.6	11.2	71.2

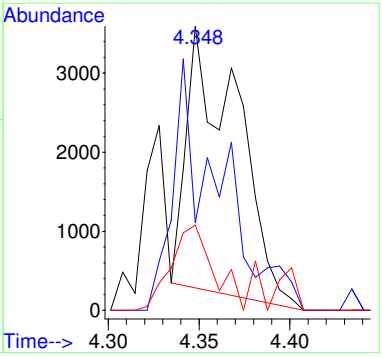


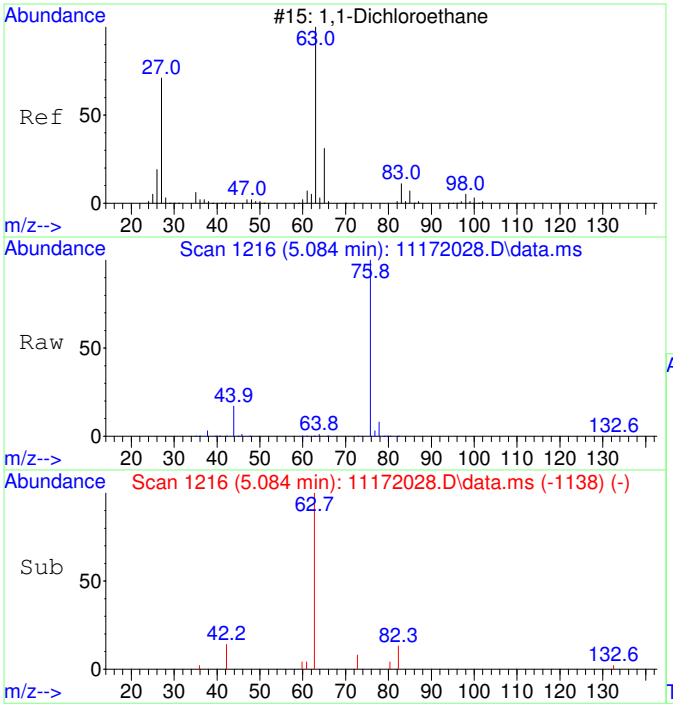


#27
trans-1,2-Dichloroethene SCAN
Concen: 405.00 ug/L
RT: 4.348 min Scan# 1105
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 61 Resp: 6457

Ion	Ratio	Lower	Upper
61	100		
96	86.9	49.0	109.0
98	27.3	20.5	80.5

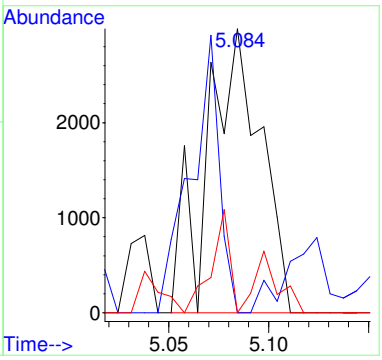


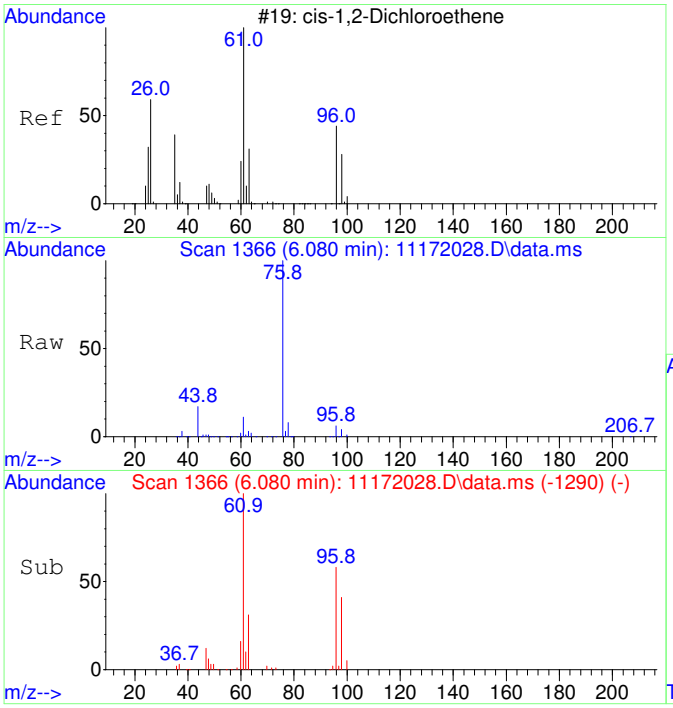


#28
1,1-Dichloroethane SCAN
Concen: 304.10 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. 0.020 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 63 Resp: 5611

Ion	Ratio	Lower	Upper
63	100		
65	51.8	1.3	61.3
83	10.1	0.0	45.9

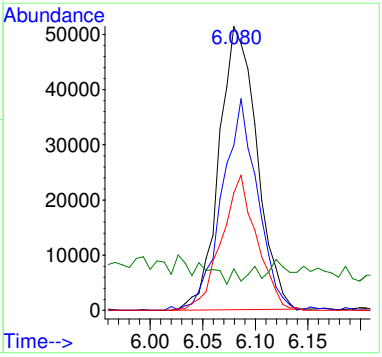


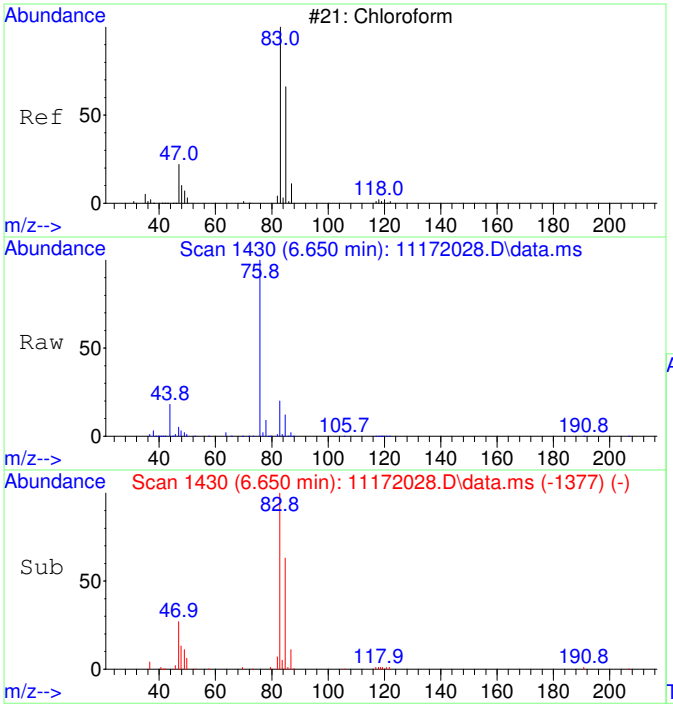


#29
cis-1,2-Dichloroethene SCAN
Concen: 6497.19 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.006 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 61 Resp: 128441

Ion	Ratio	Lower	Upper
61	100		
96	69.7	39.9	99.9
98	44.6	13.5	73.5
64	2.1	4.5	64.5#

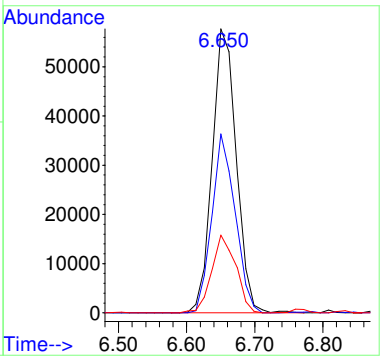


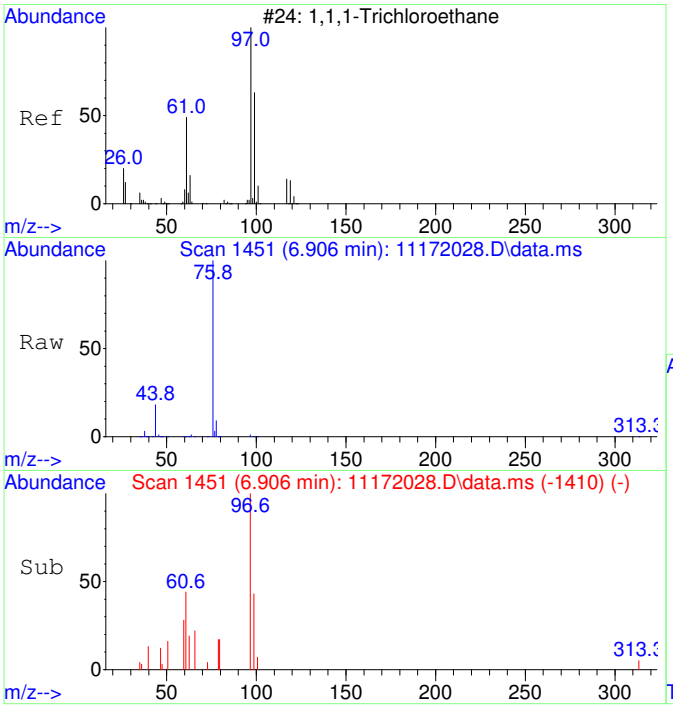


#30
Chloroform SCAN
Concen: 6594.24 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 83 Resp: 141393

Ion	Ratio	Lower	Upper
83	100		
85	61.0	34.6	94.6
47	27.6	0.0	53.4

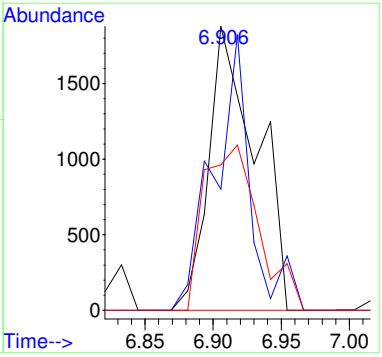


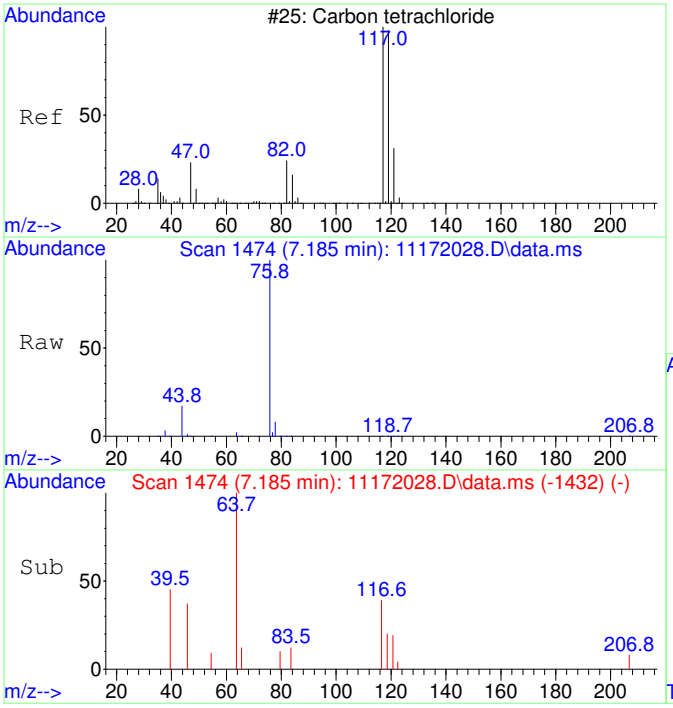


#31
1,1,1-Trichloroethane SCAN
Concen: 234.50 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 97 Resp: 4582

Ion	Ratio	Lower	Upper
97	100		
99	74.4	43.6	103.6
61	66.8	18.0	78.0

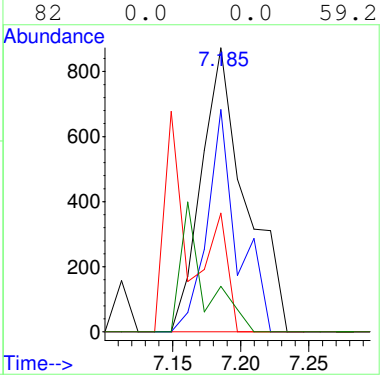


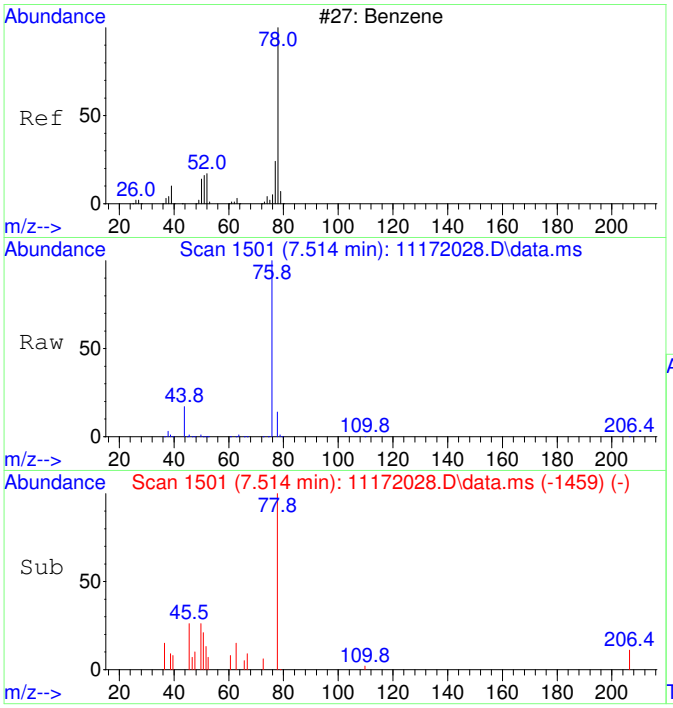


#32
Carbon tetrachloride SCAN
Concen: 96.61 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:117 Resp: 1969

Ion	Ratio	Lower	Upper
117	100		
119	54.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

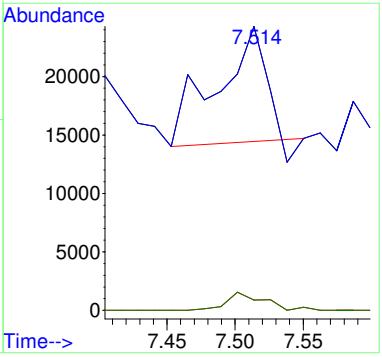


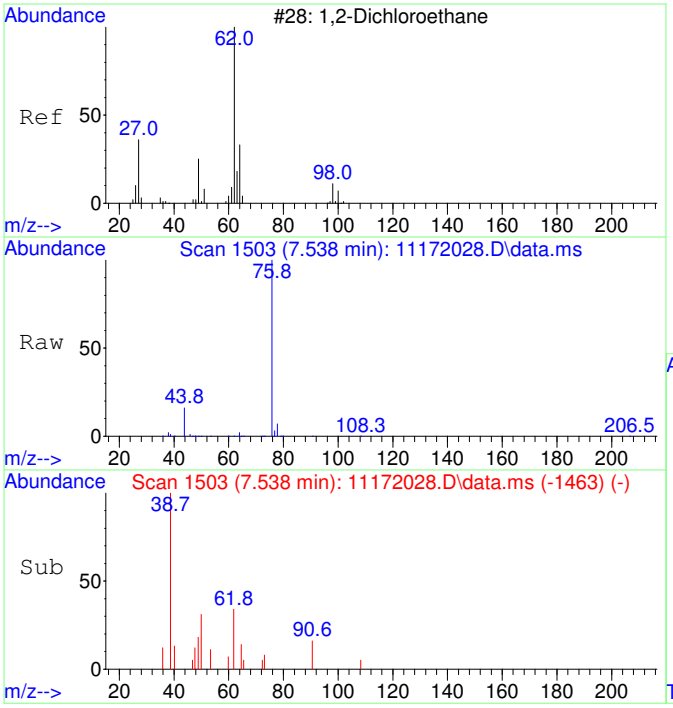


#33
Benzene SCAN
Concen: 444.31 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 78 Resp: 23904

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	12.3	0.0	47.9
51	12.3	0.0	44.1

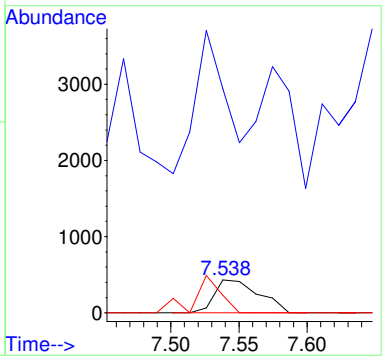


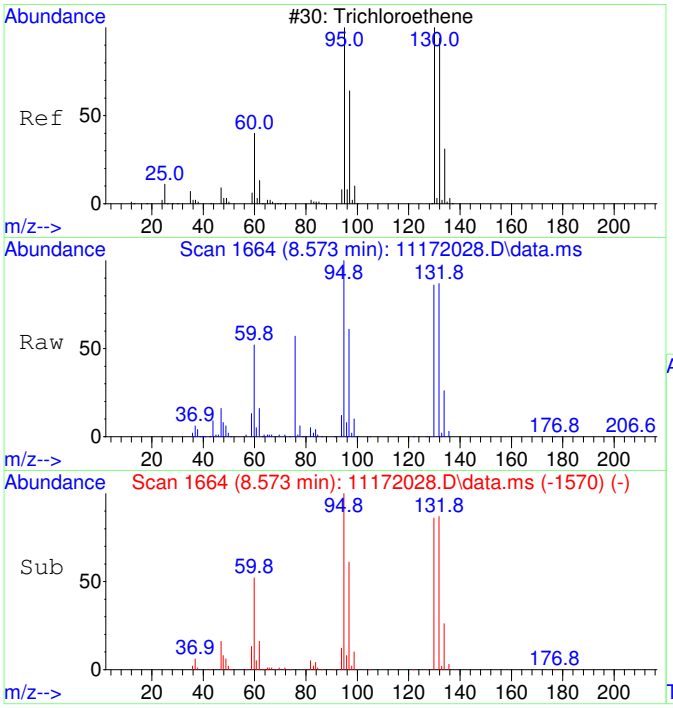


#34
1,2-Dichloroethane SCAN
Concen: 49.53 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 62 Resp: 984

Ion	Ratio	Lower	Upper
62	100		
64	232.6	5.2	65.2#
49	67.4	3.9	63.9#

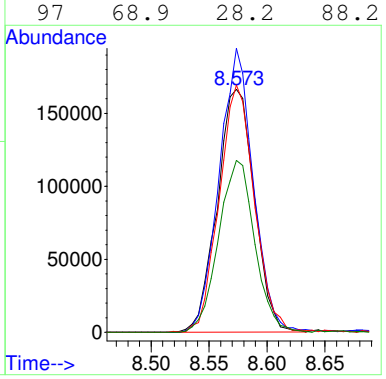


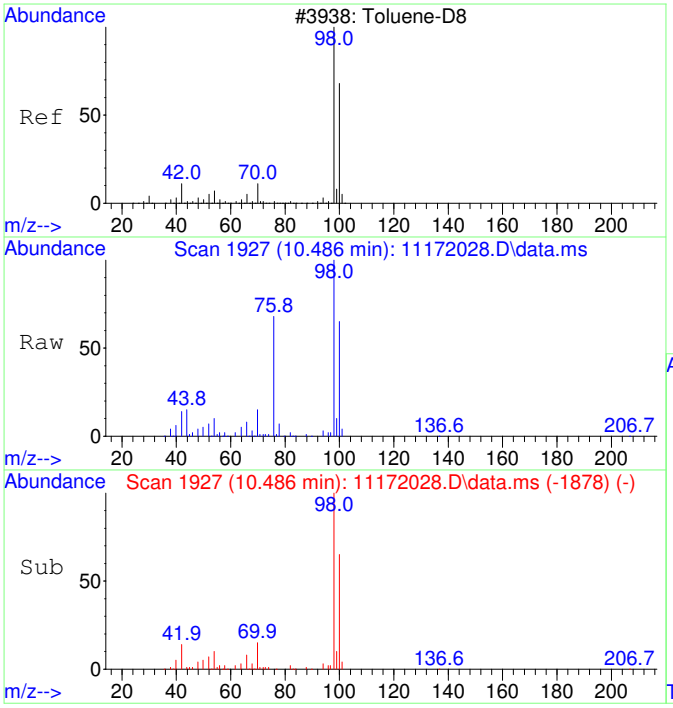


#35
Trichloroethene SCAN
Concen: 25100.73 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:130 Resp: 371103

Ion	Ratio	Lower	Upper
130	100		
95	107.7	60.5	120.5
132	96.4	59.6	119.6
97	68.9	28.2	88.2

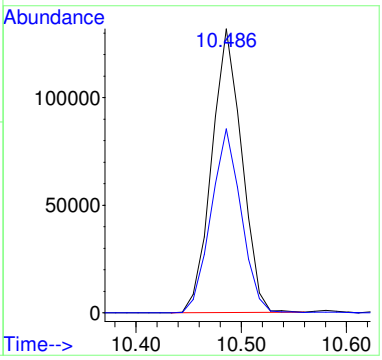


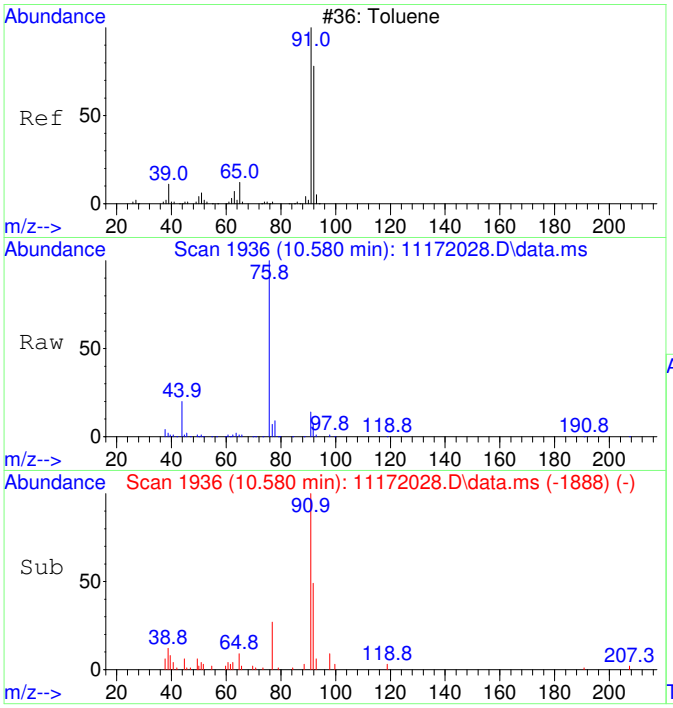


#36
Toluene-d8 SCAN
Concen: 4413.21 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 98 Resp: 261843

Ion	Ratio	Lower	Upper
98	100		
100	64.9	40.0	100.0

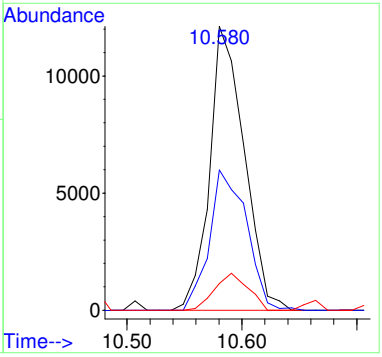


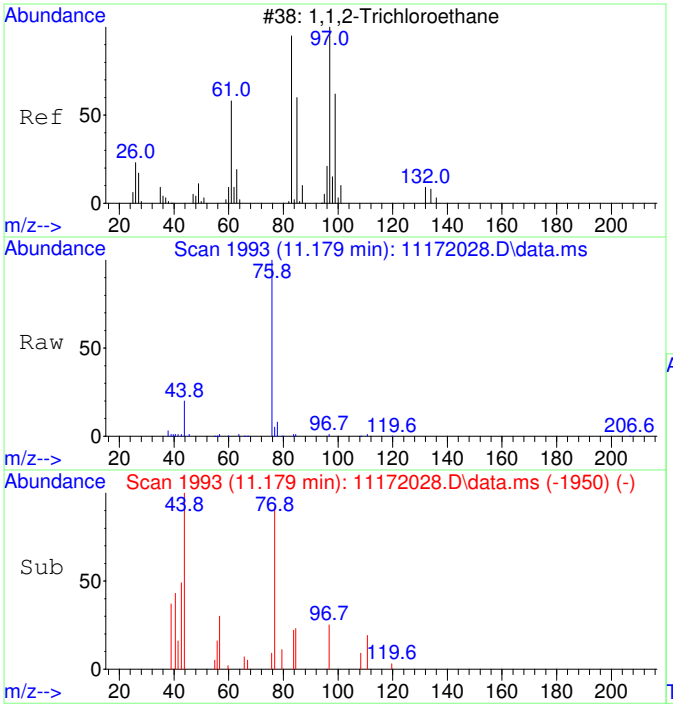


#37
Toluene SCAN
Concen: 334.40 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 25409

Ion	Ratio	Lower	Upper
91	100		
92	53.1	28.3	88.3
65	12.7	0.0	41.0

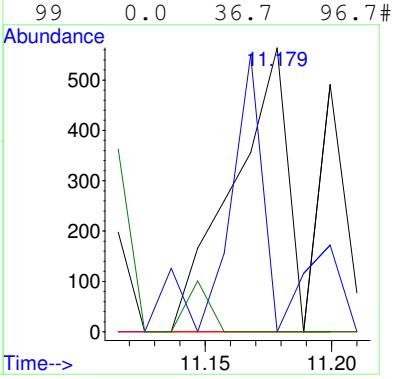


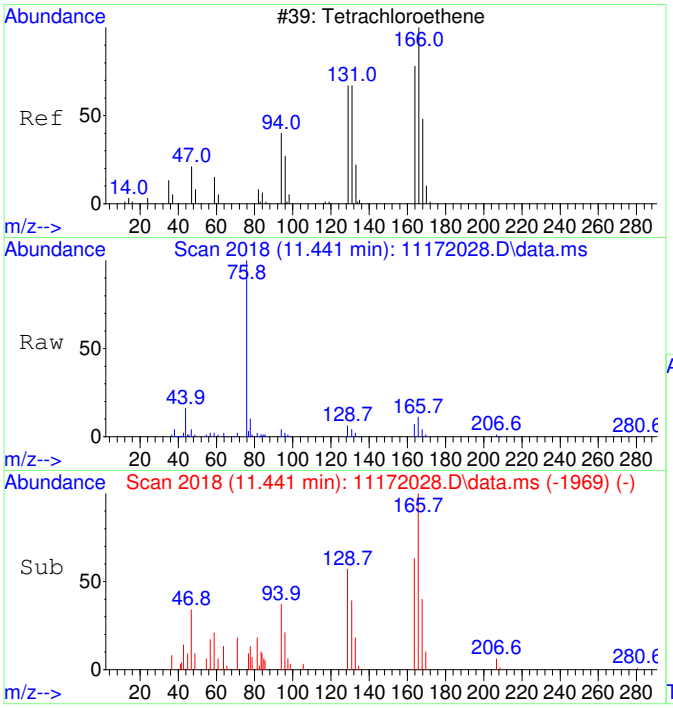


#38
1,1,2-Trichloroethane SCAN
Concen: 49.66 ug/L
RT: 11.179 min Scan# 1993
Delta R.T. -0.053 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 97 Resp: 847

Ion	Ratio	Lower	Upper
97	100		
83	83.2	57.7	117.7
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

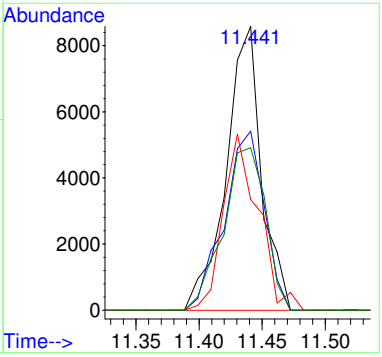


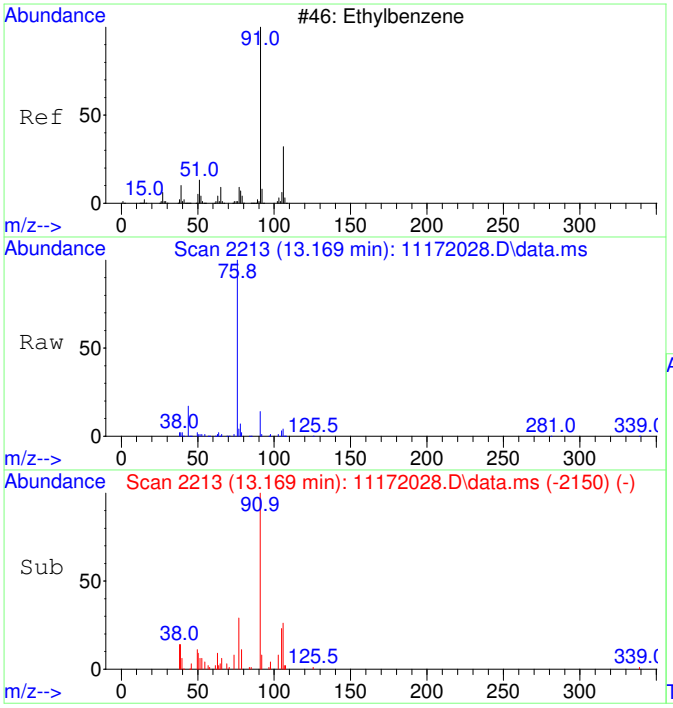


#39
Tetrachloroethene SCAN
Concen: 913.14 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:166 Resp: 16669

Ion	Ratio	Lower	Upper
166	100		
164	71.8	50.9	110.9
131	61.7	38.7	98.7
129	68.8	41.8	101.8

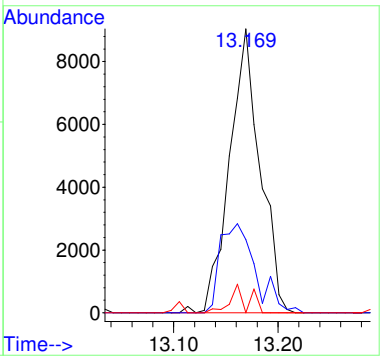


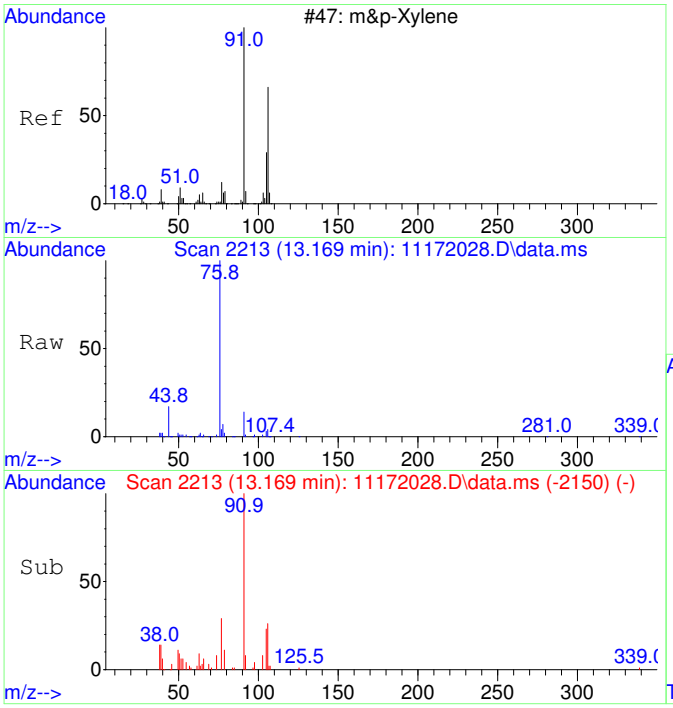


#42
Ethylbenzene SCAN
Concen: 133.21 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 18440

Ion	Ratio	Lower	Upper
91	100		
106	36.2	23.1	83.1
51	5.6	0.0	40.1

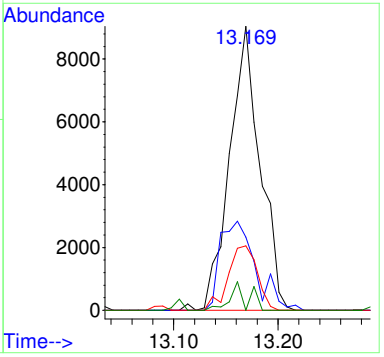


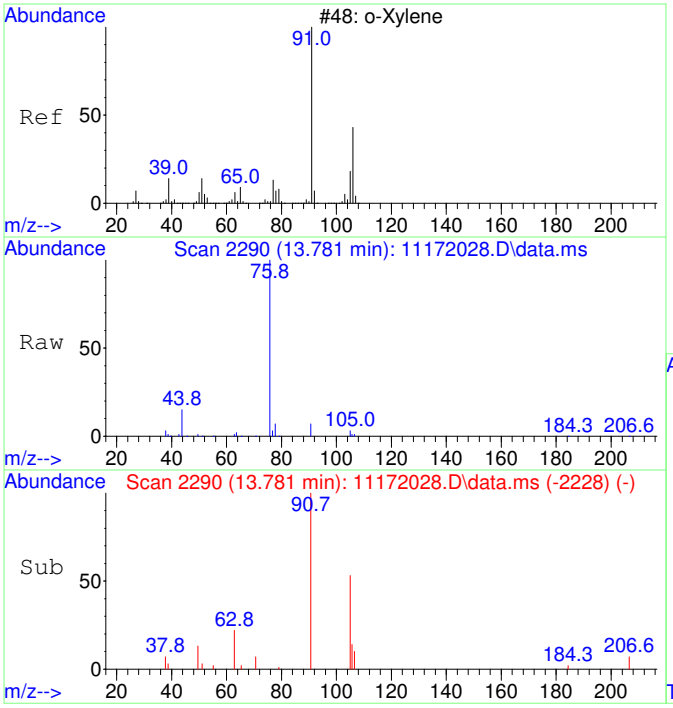


#43
m&p-Xylene SCAN
Concen: 133.21 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 18440

Ion	Ratio	Lower	Upper
91	100		
106	36.2	23.1	83.1
105	21.5	0.0	54.7
51	5.6	0.0	40.1

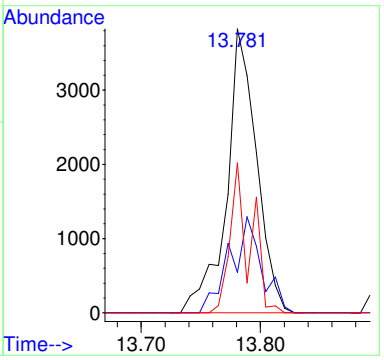


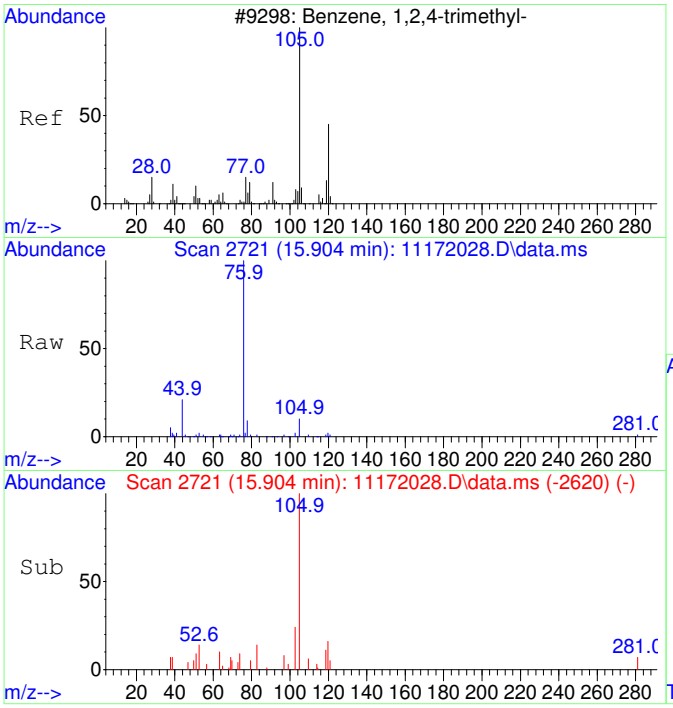


#44
o-Xylene SCAN
Concen: 90.41 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 6699

Ion	Ratio	Lower	Upper
91	100		
106	35.9	18.0	78.0
105	35.6	0.0	56.6

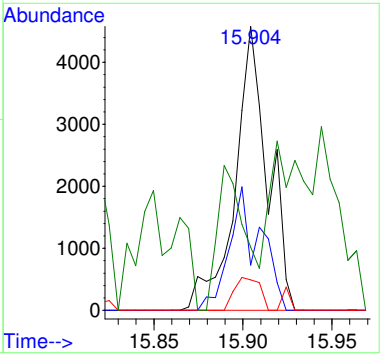




#47
1,2,4-Trimethylbenzene SCAN
Concen: 73.21 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:105 Resp: 5850

Ion	Ratio	Lower	Upper
105	100		
120	40.7	16.9	76.9
119	9.0	0.0	41.9
77	33.3	0.0	42.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172028.D
Acq On : 17 Nov 2020 18:33
InstName : AG5975C
Operator : TD
Sample : 2011017-17
Misc :
ALS Vial : 28 Sample Multiplier: 1

M.I. Performed By:
TD at 9:47 am, Nov 23, 2020

M.I. Approved By:
ZR at 3:46 pm, Nov 23, 2020

Quant Time: Nov 18 06:17:07 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

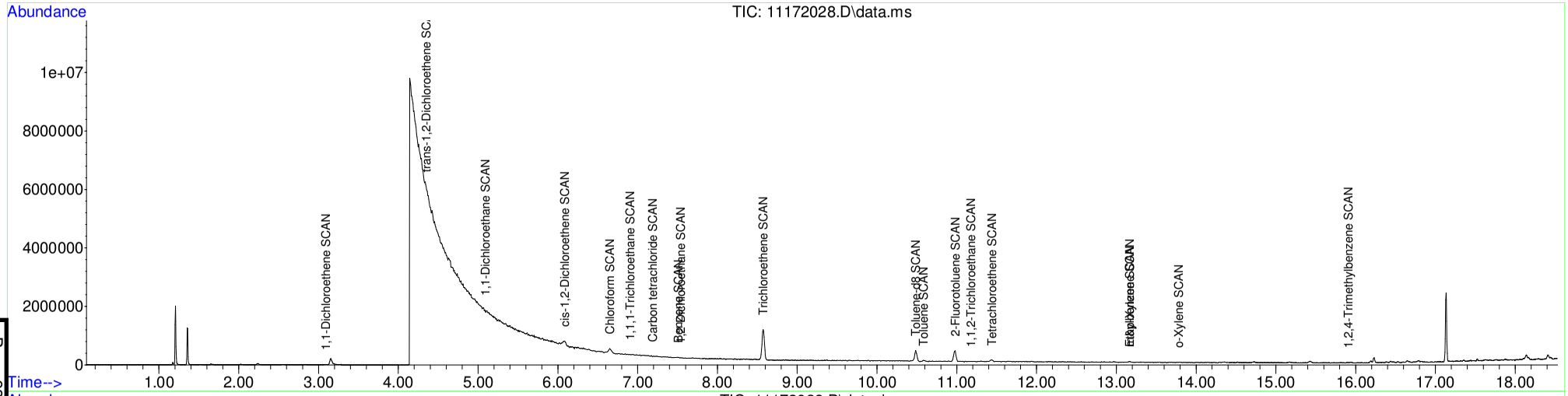
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	622355	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	531885	4365.70 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.31%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	9841m	395.99 ug/L	
3] trans-1,2-Dichloroethene	4.356	61	12588	438.41 ug/L	96
4] 1,1-Dichloroethane	5.072	63	12813	358.49 ug/L	94
5] cis-1,2-Dichloroethene	6.081	61	234724	6221.46 ug/L	99
6] Chloroform	6.651	83	254640	6594.13 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	8427	200.94 ug/L	100
8] Carbon tetrachloride	7.187	117	4313	109.27 ug/L	99
9] Benzene	7.503	78	22957	217.10 ug/L	71
10] 1,2-Dichloroethane	7.552	62	2165	57.35 ug/L #	1
11] Trichloroethene	8.575	130	789768	24806.29 ug/L	94
13] Toluene	10.582	91	41734	268.69 ug/L	97
15] Tetrachloroethene	11.432	166	36914	821.21 ug/L	100
18] Ethylbenzene	12.972	91	12204	64.55 ug/L	96
19] m&p-Xylene	13.162	91	28326	191.70 ug/L	95
20] o-Xylene	13.782	91	11461	72.60 ug/L	96
22] 1,3,5-Trimethylbenzene	15.350	105	3363	20.01 ug/L	94
23] 1,2,4-Trimethylbenzene	15.901	105	11035	63.23 ug/L	93
25) 2-Fluorotoluene SCAN	10.979	109	301254	4965.61 ug/L	96
26) 1,1-Dichloroethene SCAN	3.088	61	2885	223.92 ug/L #	72
27) trans-1,2-Dichloroethe...	4.348	61	6457	405.00 ug/L	81
28) 1,1-Dichloroethane SCAN	5.084	63	5611	304.10 ug/L	71
29) cis-1,2-Dichloroethene...	6.080	61	128441	6497.19 ug/L #	86
30) Chloroform SCAN	6.650	83	141393	6594.24 ug/L	94
31) 1,1,1-Trichloroethane ...	6.906	97	4582	234.50 ug/L	88
32) Carbon tetrachloride SCAN	7.185	117	1969	96.61 ug/L #	48
33) Benzene SCAN	7.514	78	23904	444.31 ug/L	98
34) 1,2-Dichloroethane SCAN	7.538	62	984	49.53 ug/L #	1
35) Trichloroethene SCAN	8.573	130	371103	25100.73 ug/L	87
36) Toluene-d8 SCAN	10.486	98	261843	4413.21 ug/L	94
37) Toluene SCAN	10.580	91	25409	334.40 ug/L	93
38) 1,1,2-Trichloroethane ...	11.179	97	847	49.66 ug/L #	49
39) Tetrachloroethene SCAN	11.441	166	16669	913.14 ug/L	92
42) Ethylbenzene SCAN	13.169	91	18440	133.21 ug/L	78
43) m&p-Xylene SCAN	13.169	91	18440	133.21 ug/L	82
44) o-Xylene SCAN	13.781	91	6699	90.41 ug/L	82
47) 1,2,4-Trimethylbenzene...	15.904	105	5850	73.21 ug/L	83

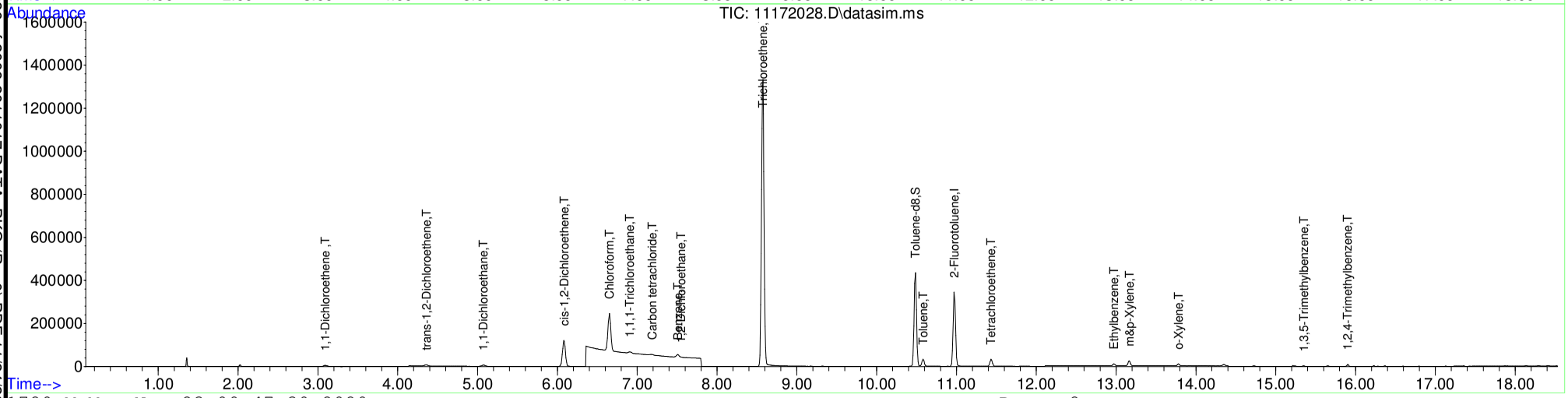
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172028.D
Acq On : 17 Nov 2020 18:33
InstName : AG5975C
Operator : TD
Sample : 2011017-17
Misc :
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 18 06:17:07 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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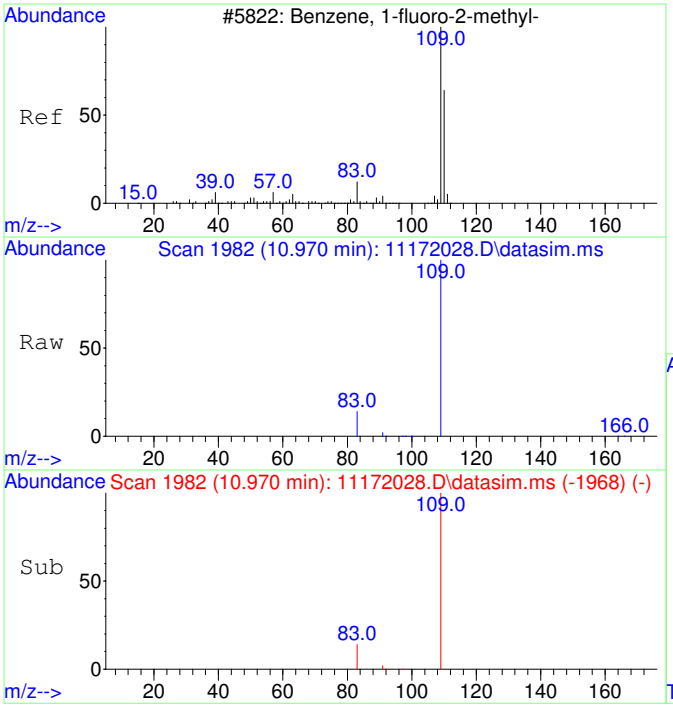
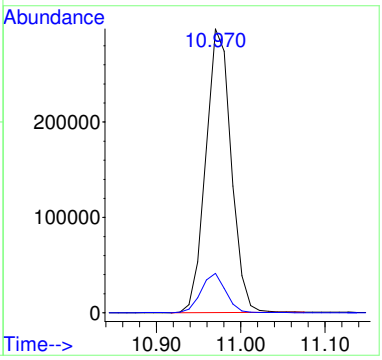
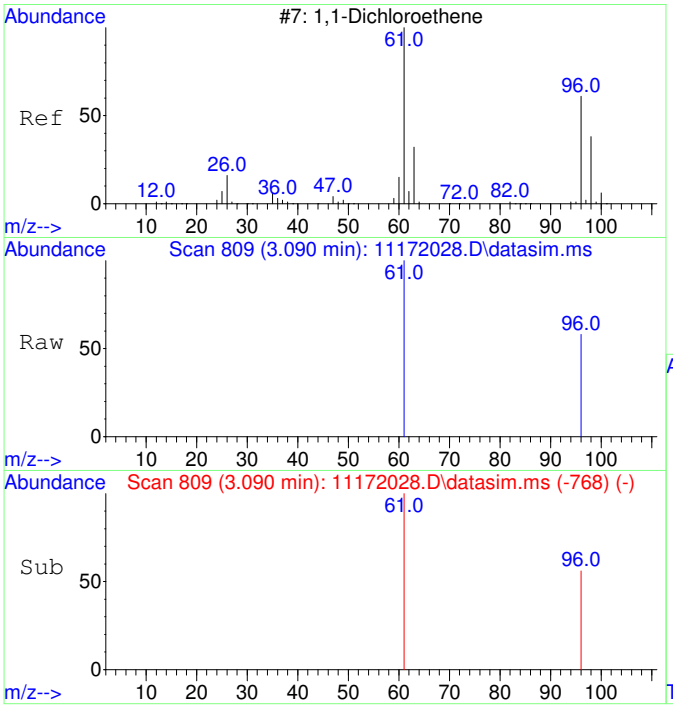


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:109 Resp: 622355

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

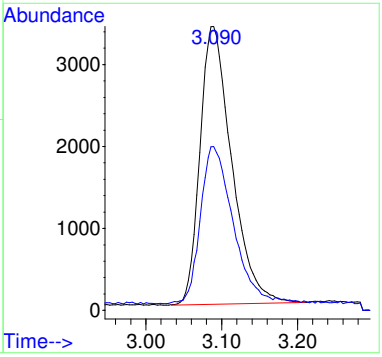


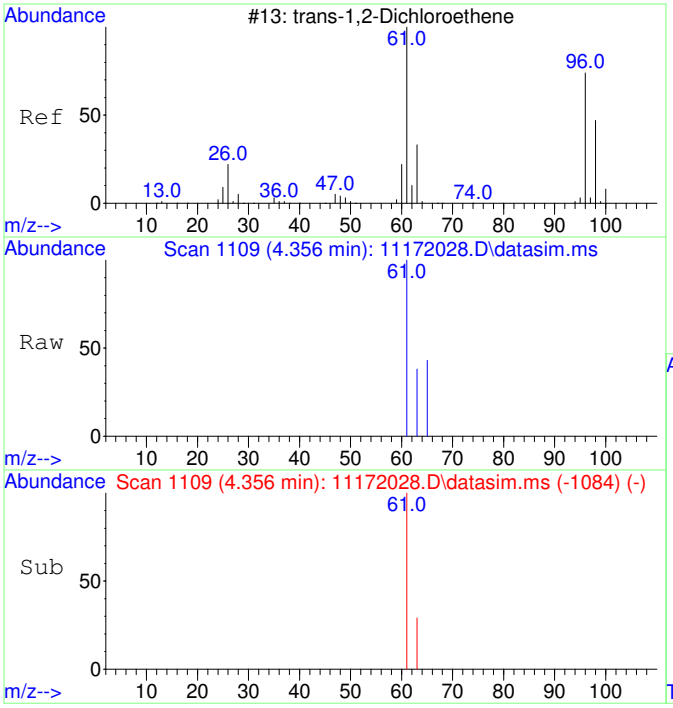


#2
1,1-Dichloroethene
Concen: 395.99 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 61 Resp: 9841

Ion	Ratio	Lower	Upper
61	100		
96	60.9	37.2	97.2

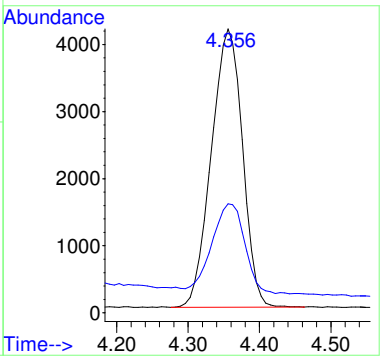


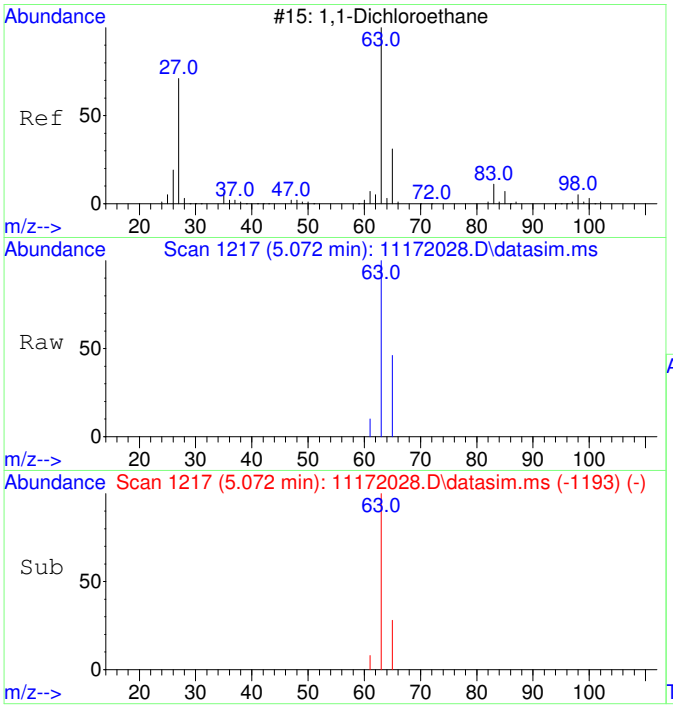


#3
trans-1,2-Dichloroethene
Concen: 438.41 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 61 Resp: 12588

Ion	Ratio	Lower	Upper
61	100		
63	34.8	2.4	62.4

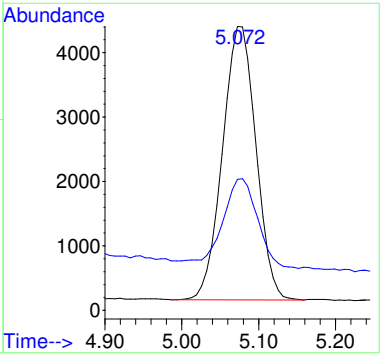


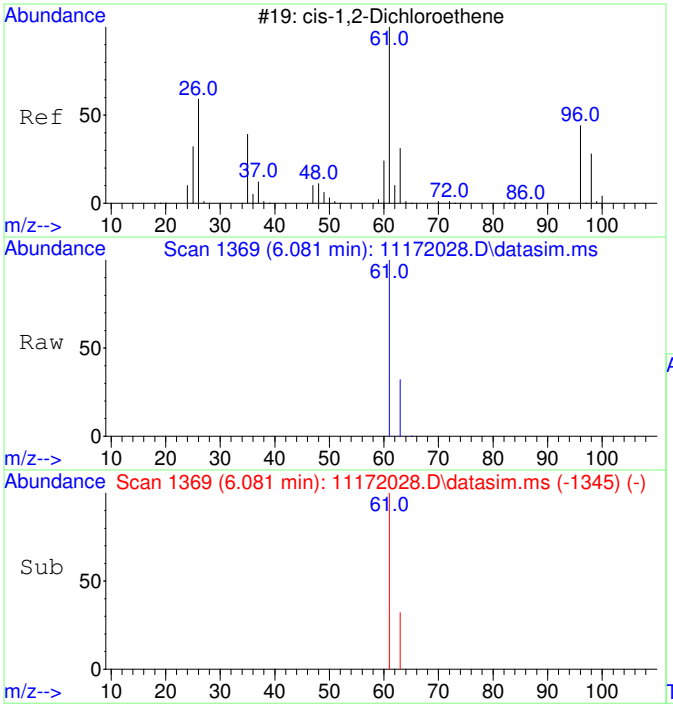


#4
1,1-Dichloroethane
Concen: 358.49 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.006 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 63 Resp: 12813

Ion	Ratio	Lower	Upper
63	100		
65	35.2	1.8	61.8

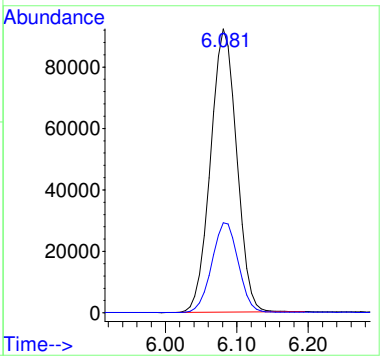


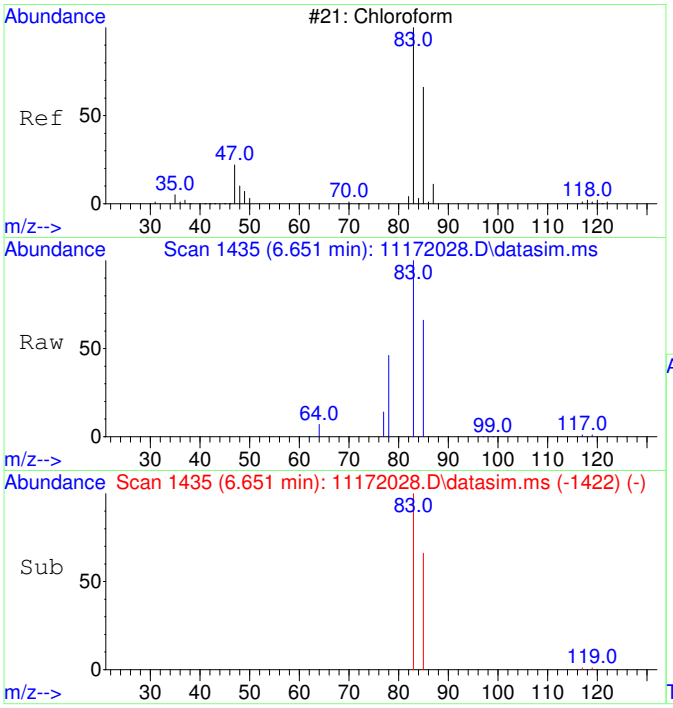


#5
cis-1,2-Dichloroethene
Concen: 6221.46 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.006 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 61 Resp: 234724

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

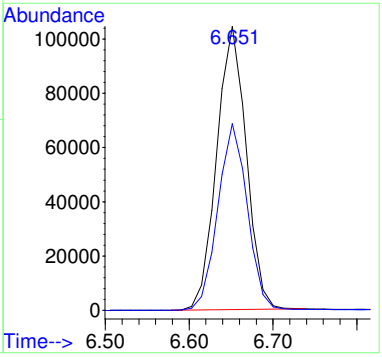


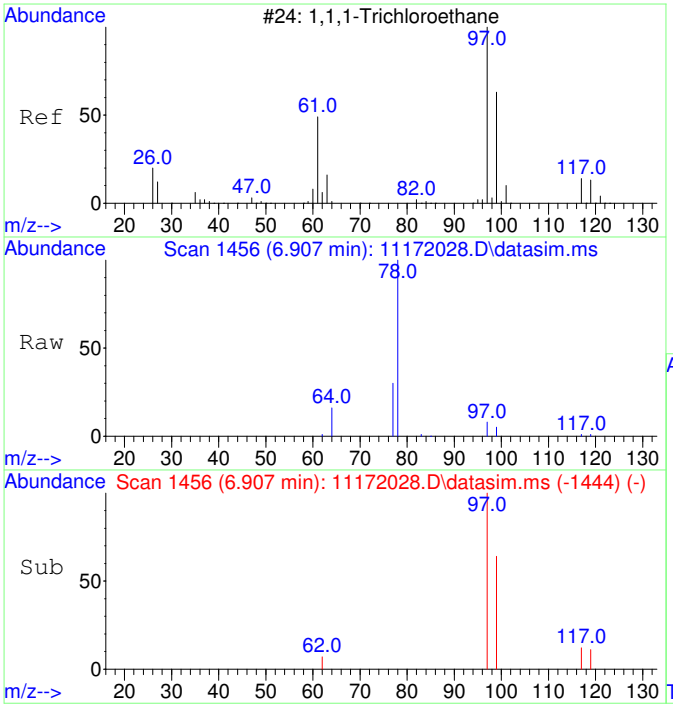


#6
Chloroform
Concen: 6594.13 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 83 Resp: 254640

Ion	Ratio	Lower	Upper
83	100		
85	65.1	35.1	95.1

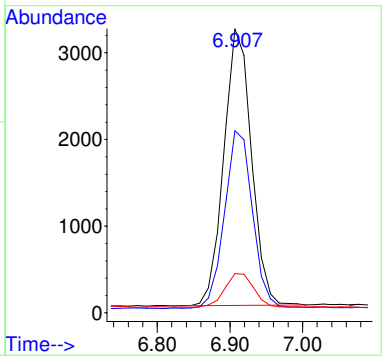


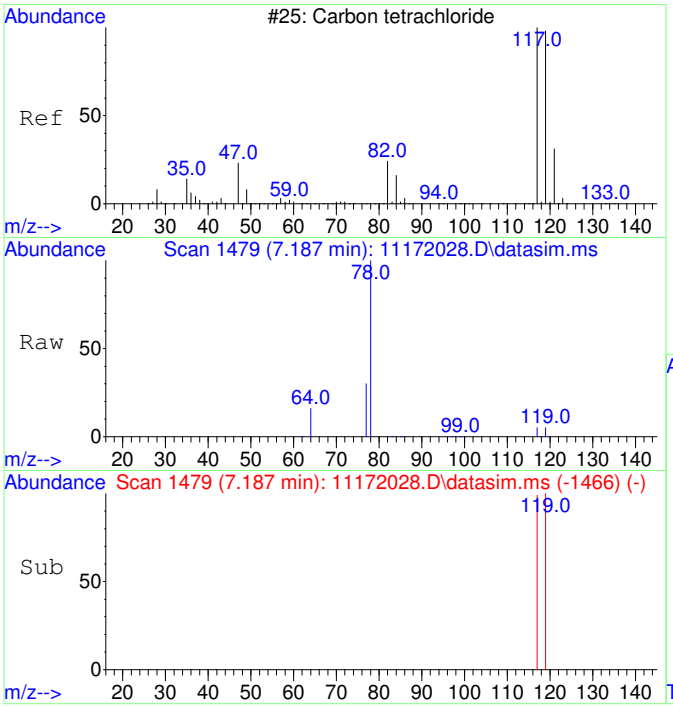


#7
1,1,1-Trichloroethane
Concen: 200.94 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 97 Resp: 8427

Ion	Ratio	Lower	Upper
97	100		
99	64.5	34.6	94.6
117	12.8	0.0	43.2

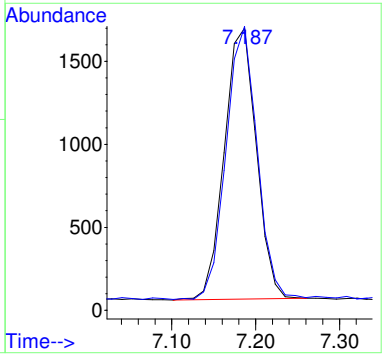


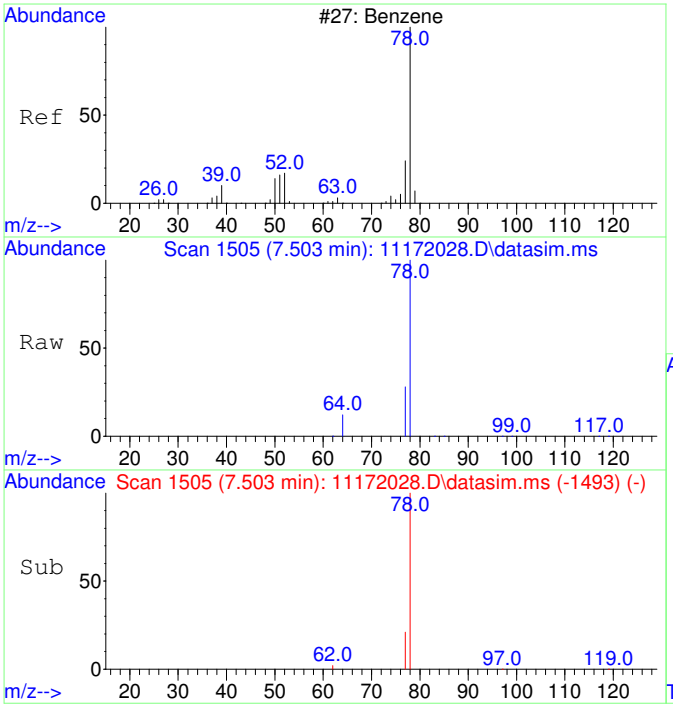


#8
Carbon tetrachloride
Concen: 109.27 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:117 Resp: 4313

Ion	Ratio	Lower	Upper
117	100		
119	97.0	66.4	126.4

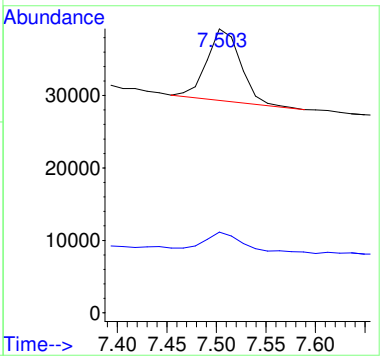


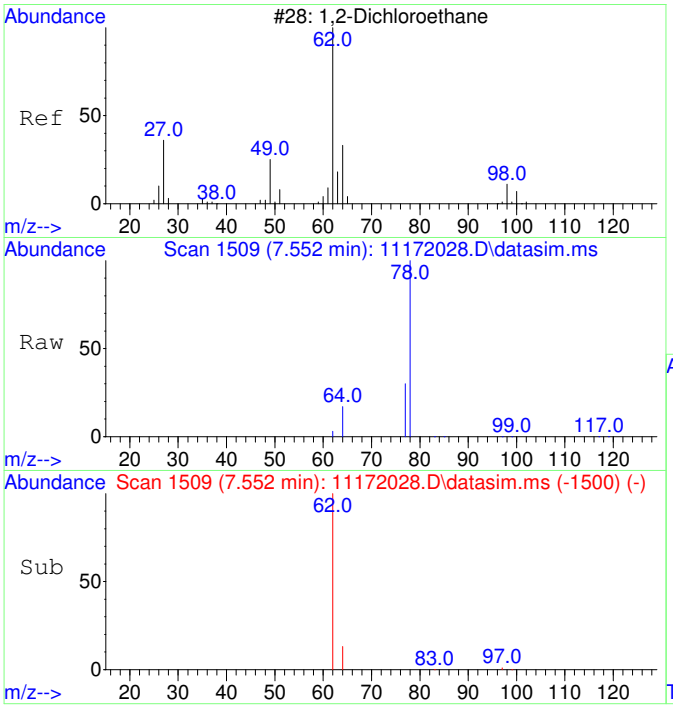


#9
Benzene
Concen: 217.10 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 78 Resp: 22957

Ion	Ratio	Lower	Upper
78	100		
77	37.5	0.0	53.2

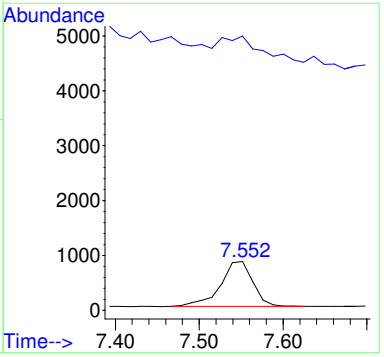


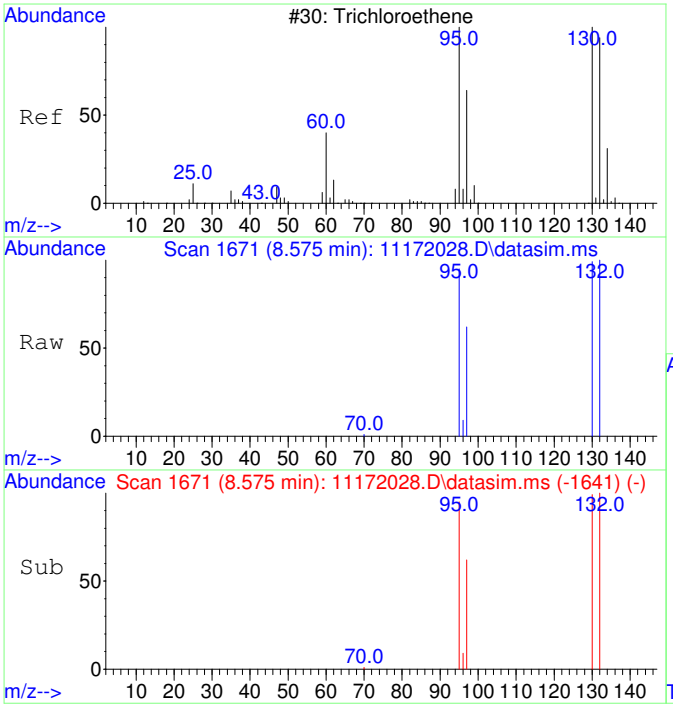


#10
1,2-Dichloroethane
Concen: 57.35 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 62 Resp: 2165

Ion	Ratio	Lower	Upper
62	100		
64	89.7	2.3	62.3#

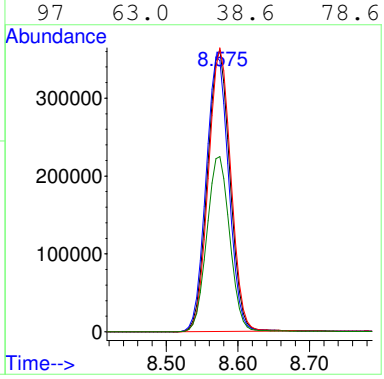


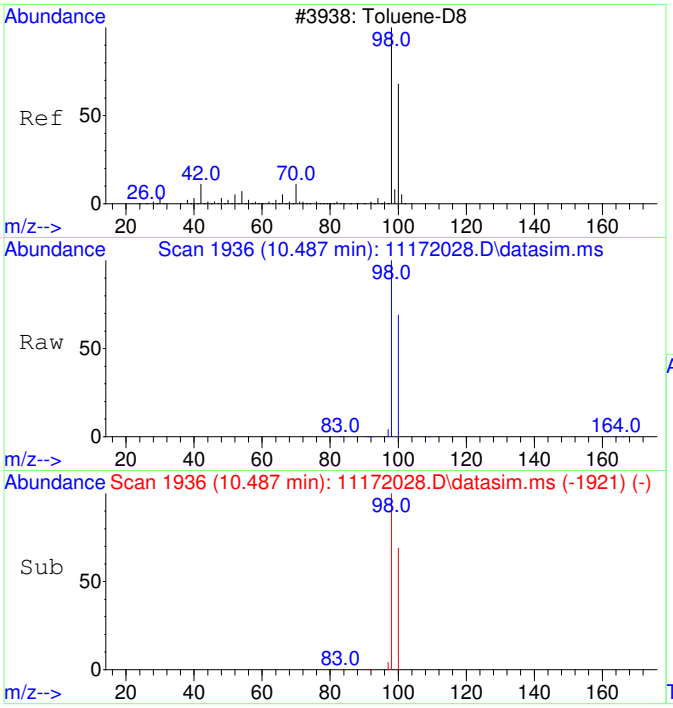


#11
Trichloroethene
Concen: 24806.29 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:130 Resp: 789768

Ion	Ratio	Lower	Upper
130	100		
95	98.4	60.7	120.7
132	100.1	76.0	116.0
97	63.0	38.6	78.6

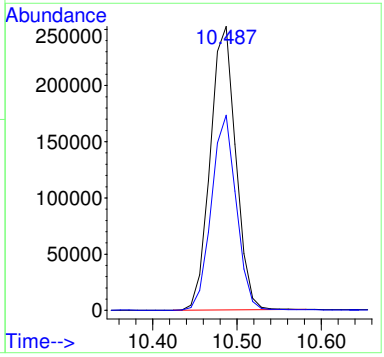


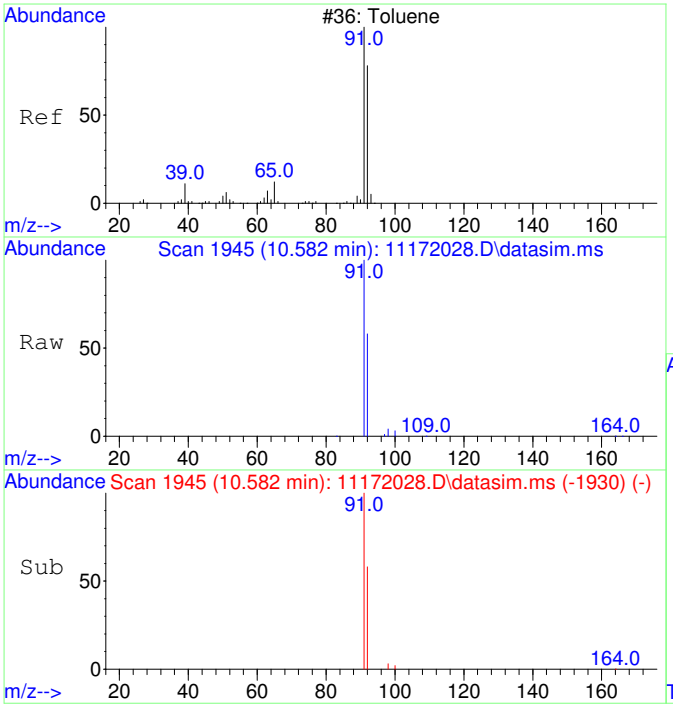


#12
Toluene-d8
Concen: 4365.70 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 98 Resp: 531885

Ion	Ratio	Lower	Upper
98	100		
100	66.7	37.1	97.1

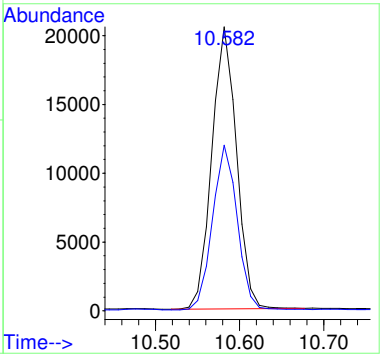


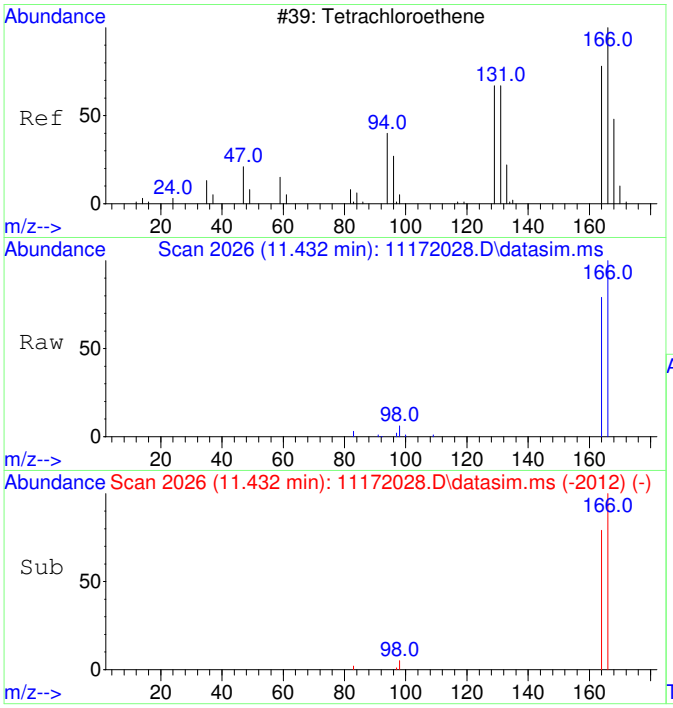


#13
Toluene
Concen: 268.69 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 41734

Ion	Ratio	Lower	Upper
91	100		
92	58.0	29.9	89.9

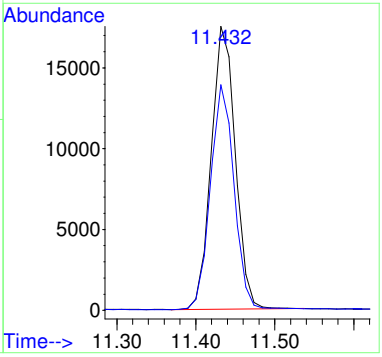


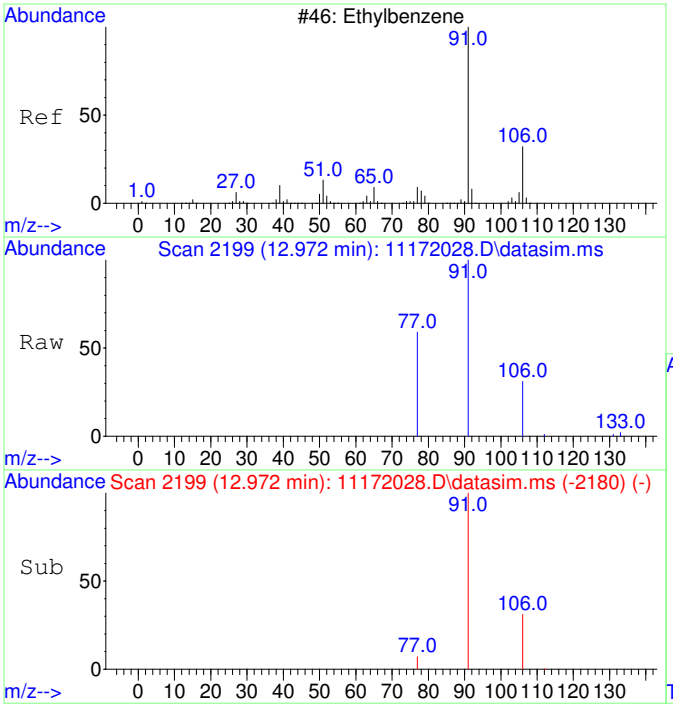


#15
Tetrachloroethene
Concen: 821.21 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:166 Resp: 36914

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

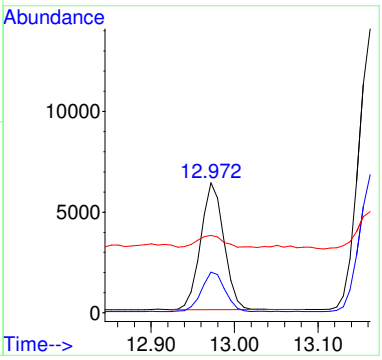


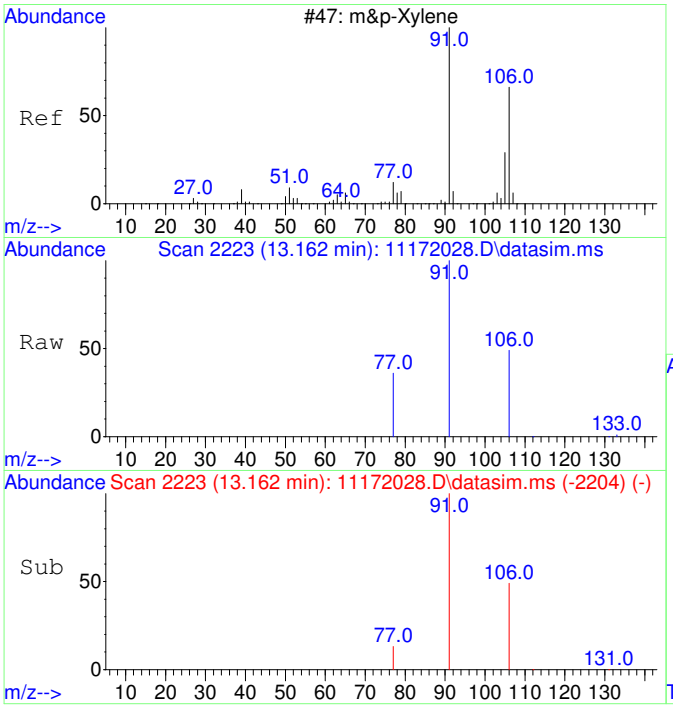


#18
Ethylbenzene
Concen: 64.55 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 12204

Ion	Ratio	Lower	Upper
91	100		
106	31.4	3.0	63.0
77	10.8	0.0	38.2

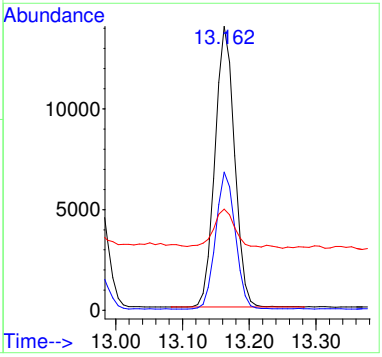


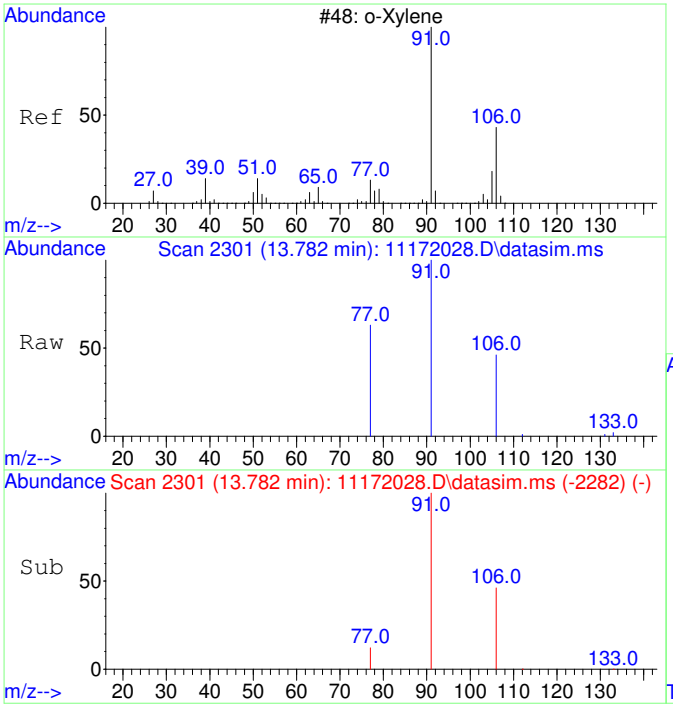


#19
m&p-Xylene
Concen: 191.70 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 28326

Ion	Ratio	Lower	Upper
91	100		
106	48.9	22.2	82.2
77	14.6	0.0	42.4

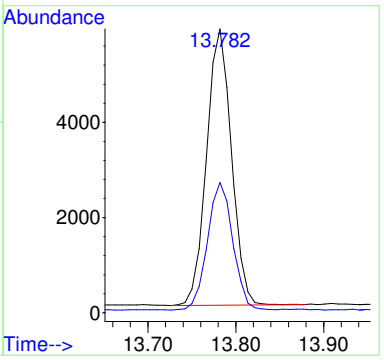


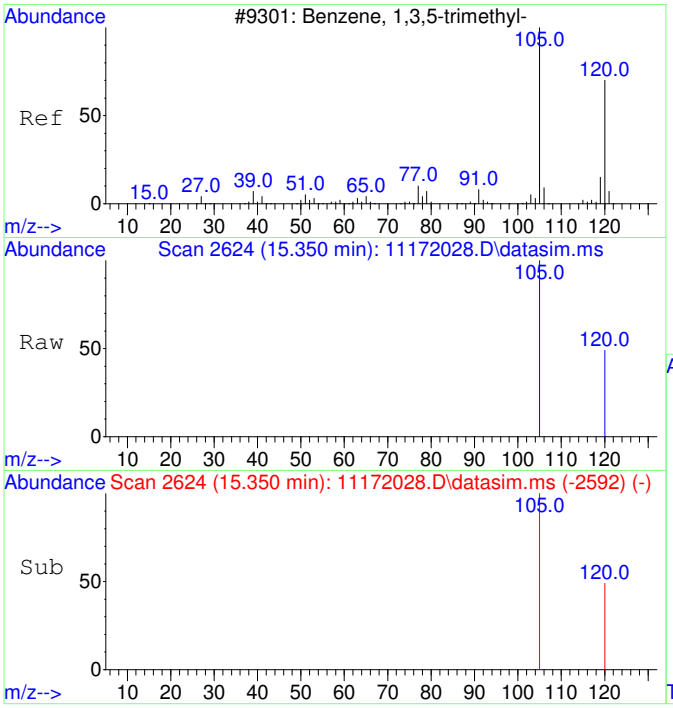


#20
o-Xylene
Concen: 72.60 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 11461

Ion	Ratio	Lower	Upper
91	100		
106	46.8	19.2	79.2

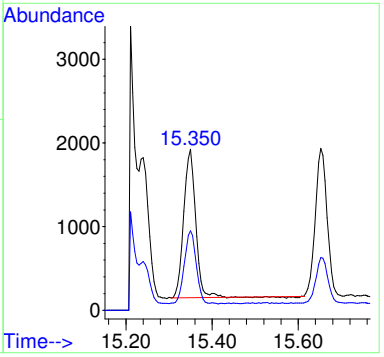


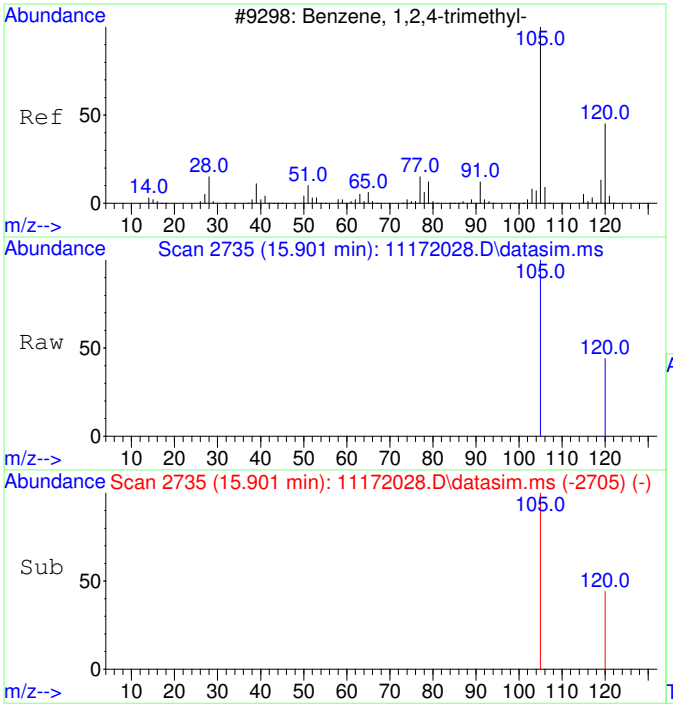


#22
1,3,5-Trimethylbenzene
Concen: 20.01 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:105 Resp: 3363

Ion	Ratio	Lower	Upper
105	100		
120	46.8	21.1	81.1

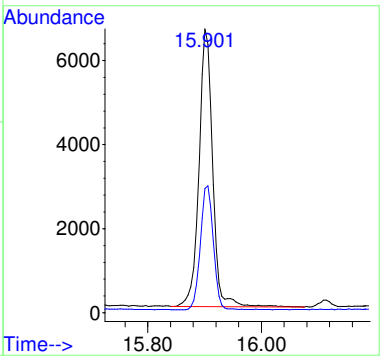


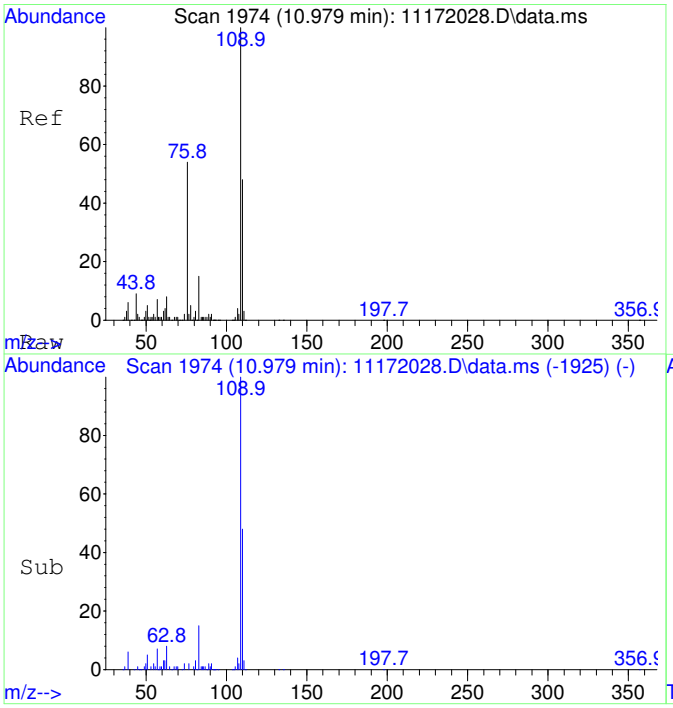


#23
1,2,4-Trimethylbenzene
Concen: 63.23 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:105 Resp: 11035

Ion	Ratio	Lower	Upper
105	100		
120	42.3	17.2	77.2

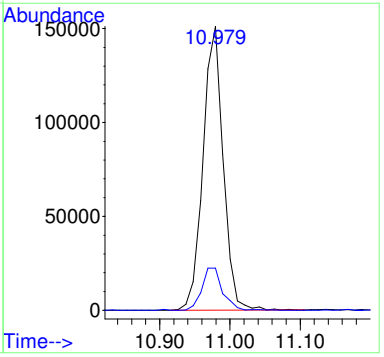


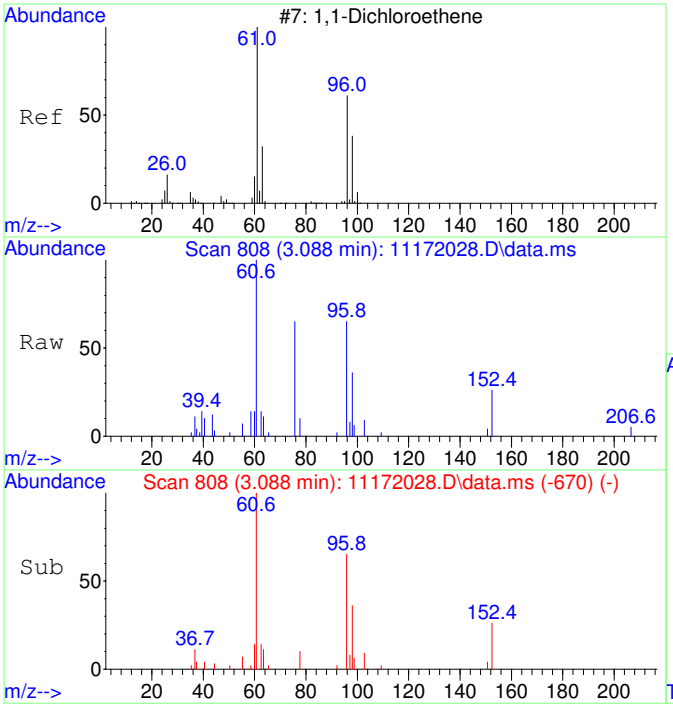


#25
2-Fluorotoluene SCAN
Concen: 4965.61 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:109 Resp: 301254

Ion	Ratio	Lower	Upper
109	100		
83	15.4	0.0	43.8

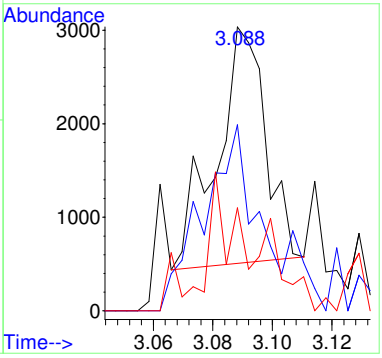


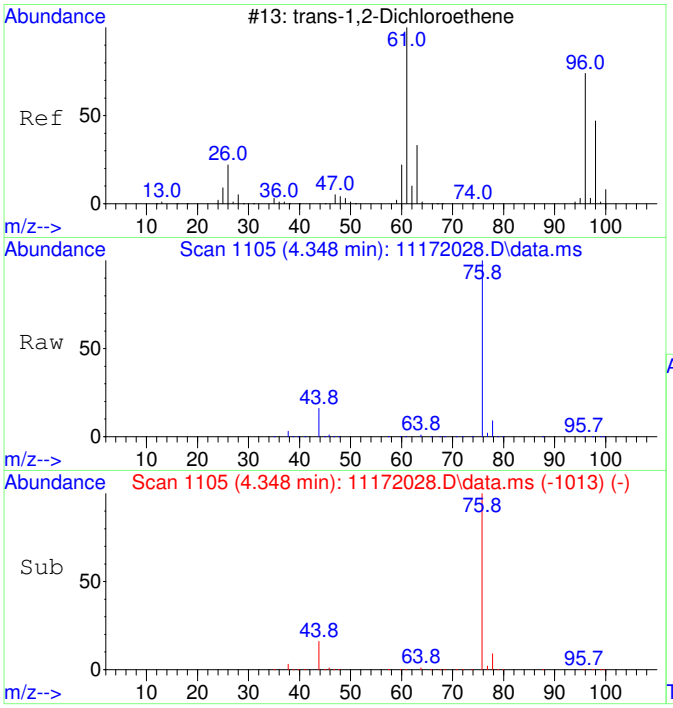


#26
1,1-Dichloroethene SCAN
Concen: 223.92 ug/L
RT: 3.088 min Scan# 808
Delta R.T. 0.011 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 61 Resp: 2885

Ion	Ratio	Lower	Upper
61	100		
96	96.8	33.1	93.1#
98	43.6	11.2	71.2

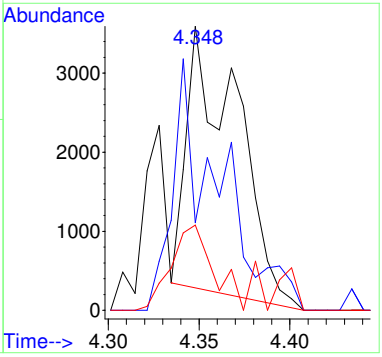


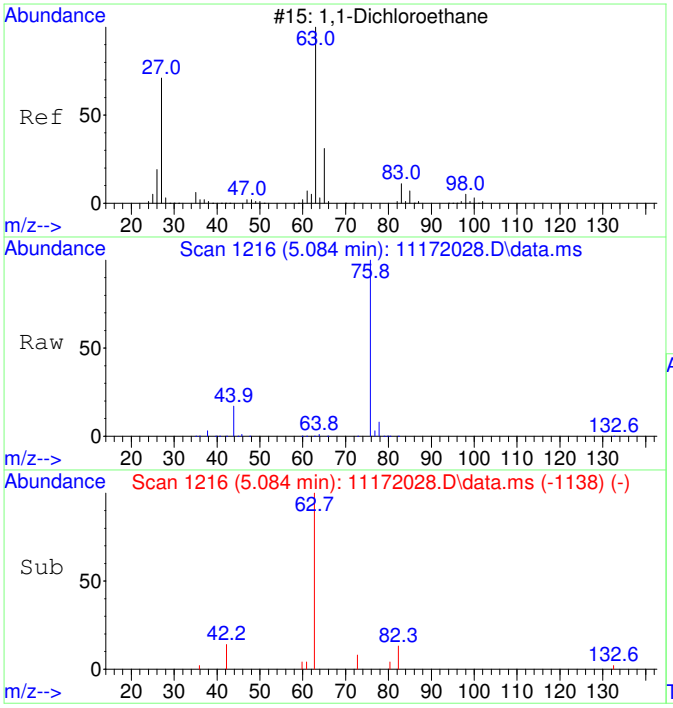


#27
trans-1,2-Dichloroethene SCAN
Concen: 405.00 ug/L
RT: 4.348 min Scan# 1105
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 61 Resp: 6457

Ion	Ratio	Lower	Upper
61	100		
96	86.9	49.0	109.0
98	27.3	20.5	80.5

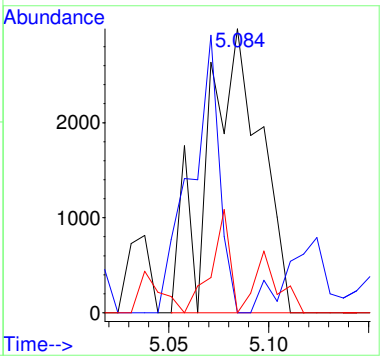


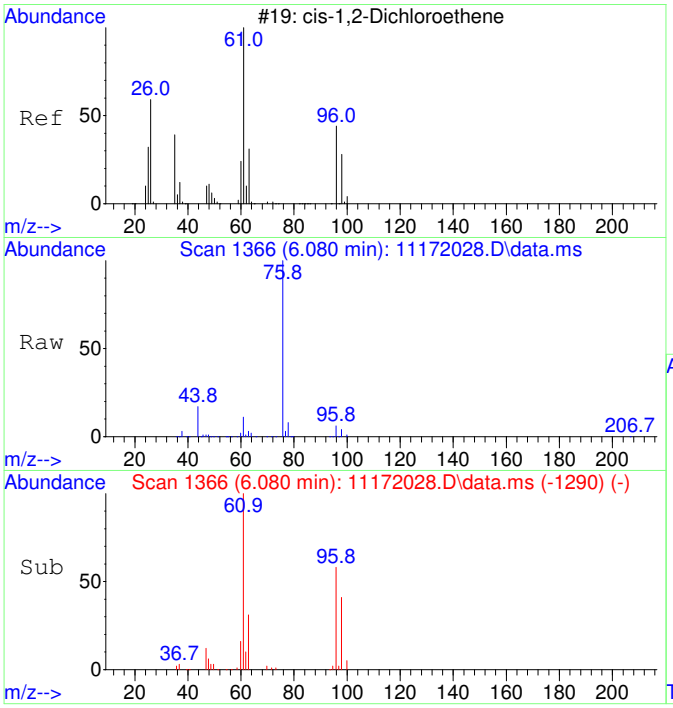


#28
1,1-Dichloroethane SCAN
Concen: 304.10 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. 0.020 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 63 Resp: 5611

Ion	Ratio	Lower	Upper
63	100		
65	51.8	1.3	61.3
83	10.1	0.0	45.9

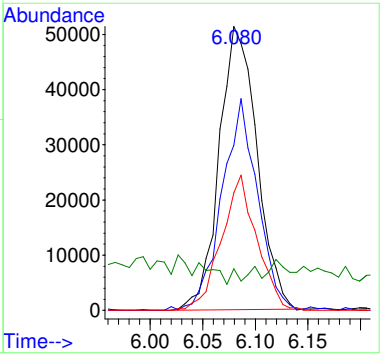


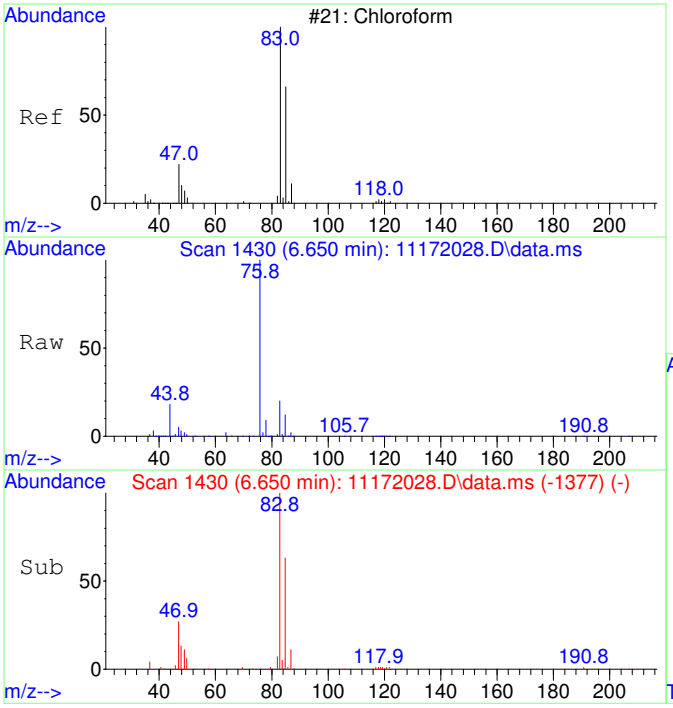


#29
cis-1,2-Dichloroethene SCAN
Concen: 6497.19 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.006 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 61 Resp: 128441

Ion	Ratio	Lower	Upper
61	100		
96	69.7	39.9	99.9
98	44.6	13.5	73.5
64	2.1	4.5	64.5#

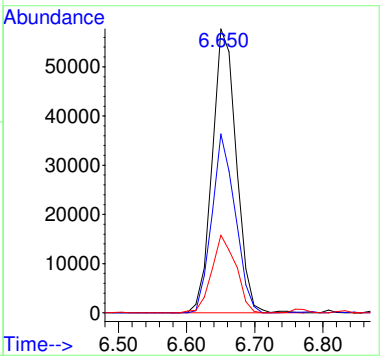


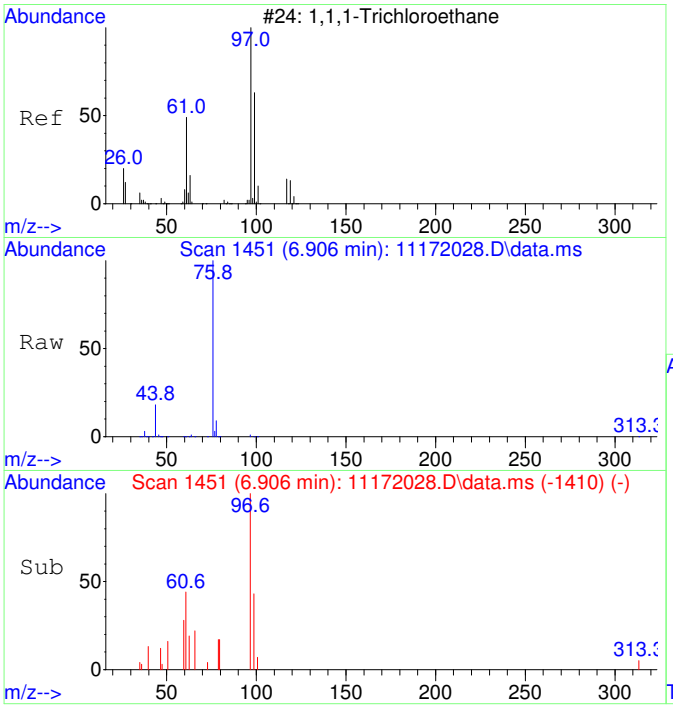


#30
Chloroform SCAN
Concen: 6594.24 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 83 Resp: 141393

Ion	Ratio	Lower	Upper
83	100		
85	61.0	34.6	94.6
47	27.6	0.0	53.4

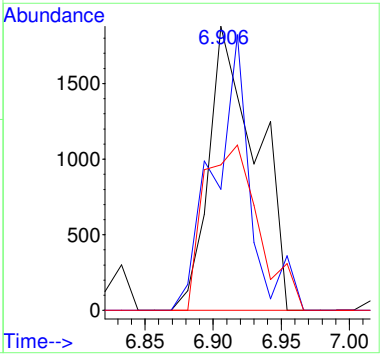


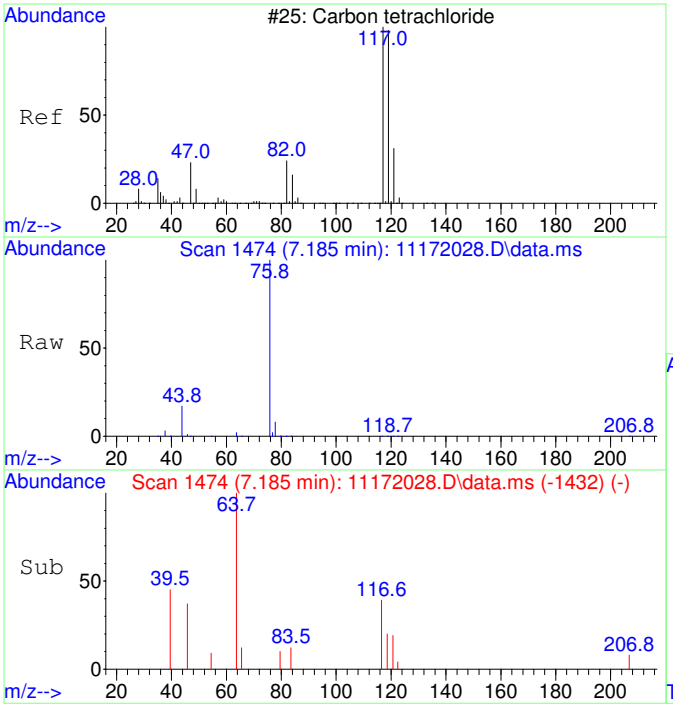


#31
1,1,1-Trichloroethane SCAN
Concen: 234.50 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 97 Resp: 4582

Ion	Ratio	Lower	Upper
97	100		
99	74.4	43.6	103.6
61	66.8	18.0	78.0

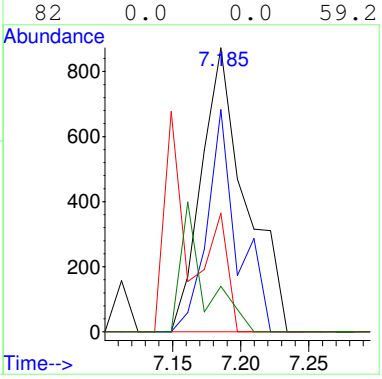


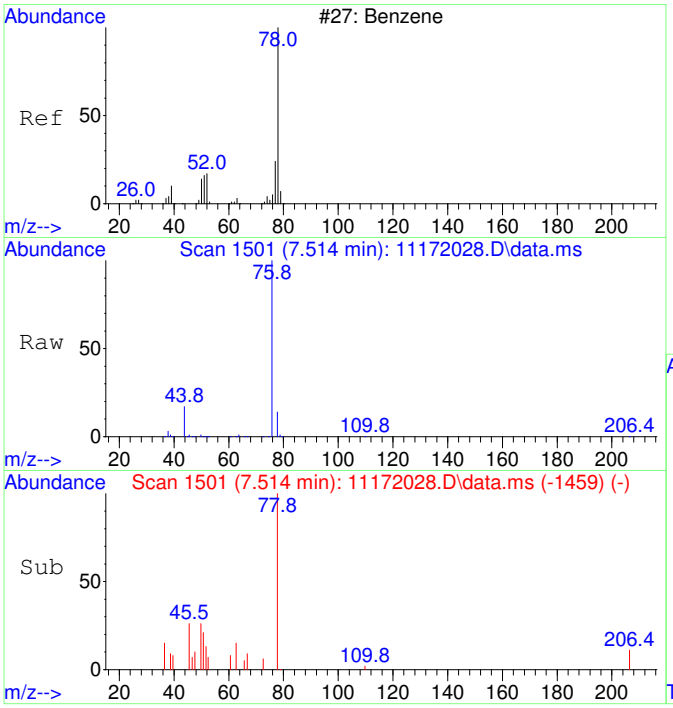


#32
Carbon tetrachloride SCAN
Concen: 96.61 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:117 Resp: 1969

Ion	Ratio	Lower	Upper
117	100		
119	54.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

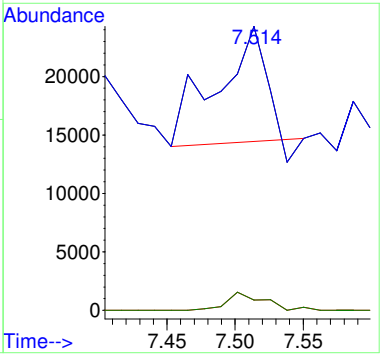


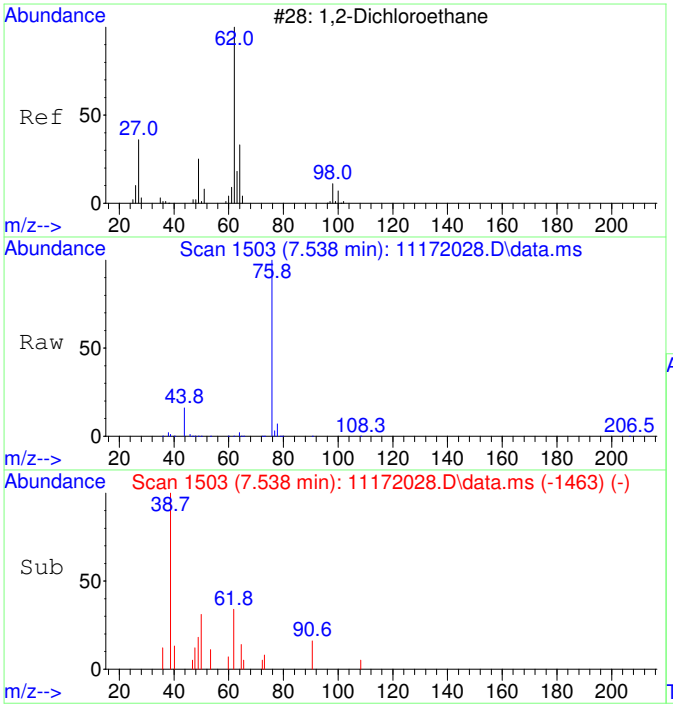


#33
Benzene SCAN
Concen: 444.31 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 78 Resp: 23904

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	12.3	0.0	47.9
51	12.3	0.0	44.1

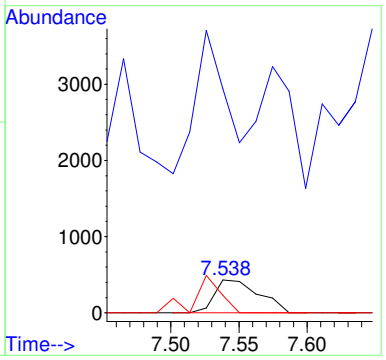


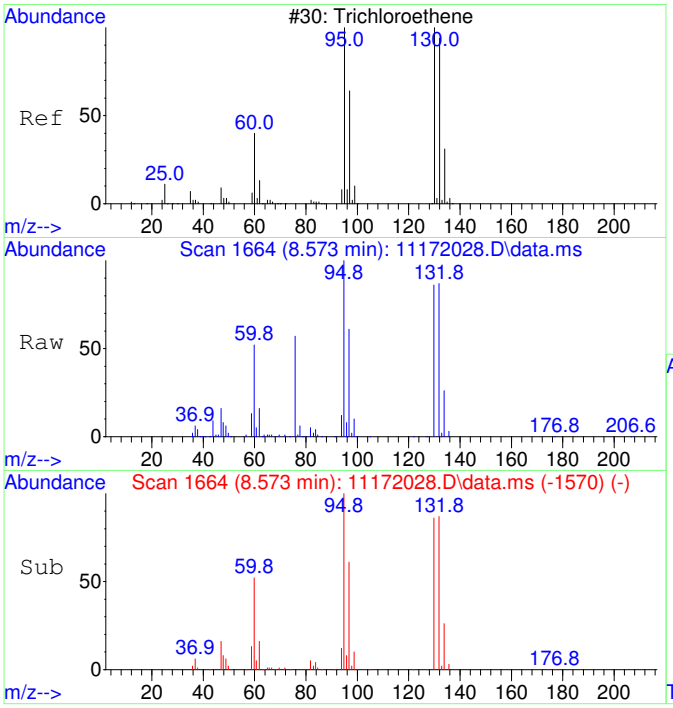


#34
1,2-Dichloroethane SCAN
Concen: 49.53 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 62 Resp: 984

Ion	Ratio	Lower	Upper
62	100		
64	232.6	5.2	65.2#
49	67.4	3.9	63.9#

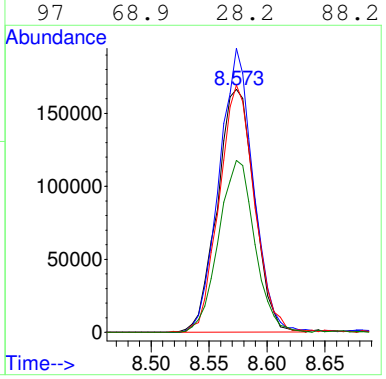


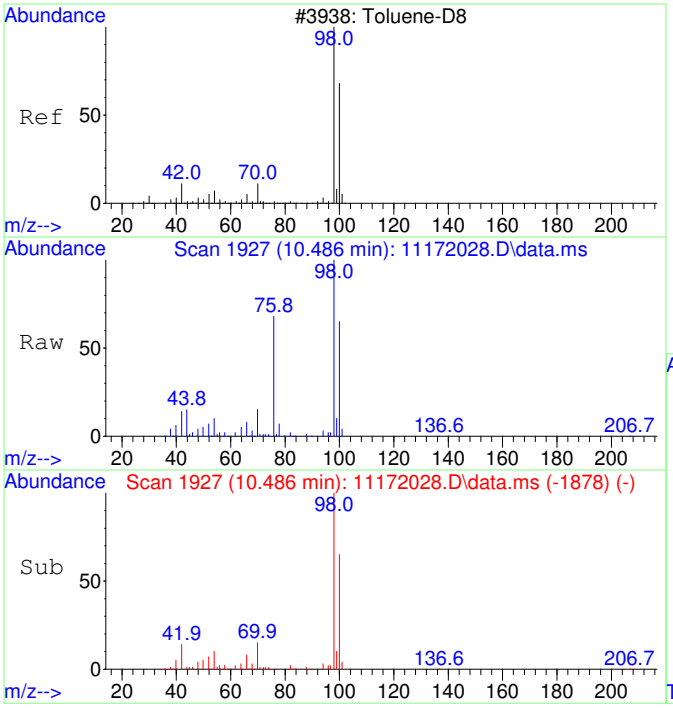


#35
Trichloroethene SCAN
Concen: 25100.73 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:130 Resp: 371103

Ion	Ratio	Lower	Upper
130	100		
95	107.7	60.5	120.5
132	96.4	59.6	119.6
97	68.9	28.2	88.2

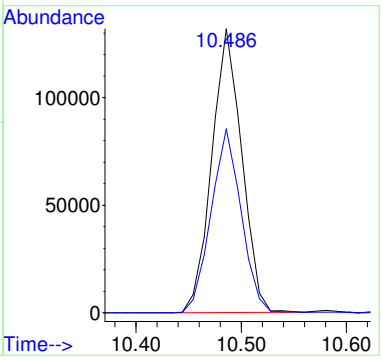


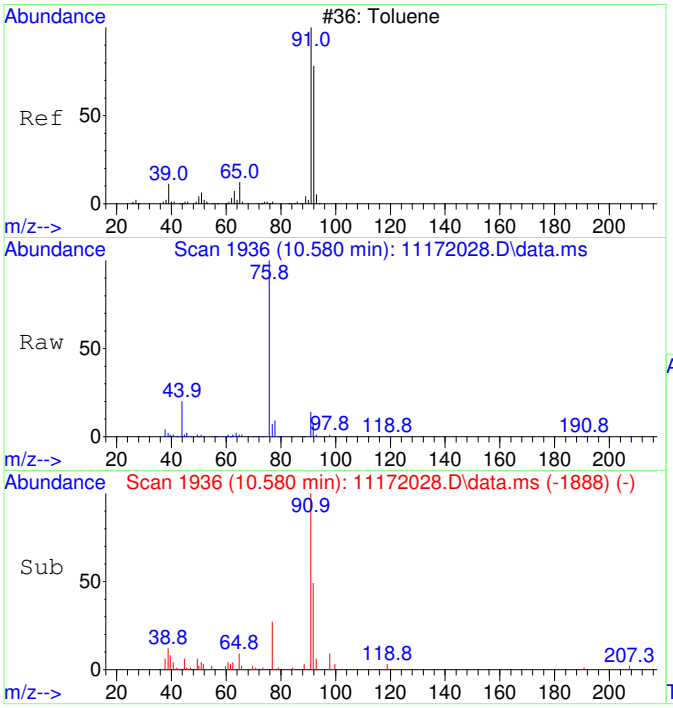


#36
Toluene-d8 SCAN
Concen: 4413.21 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 98 Resp: 261843

Ion	Ratio	Lower	Upper
98	100		
100	64.9	40.0	100.0

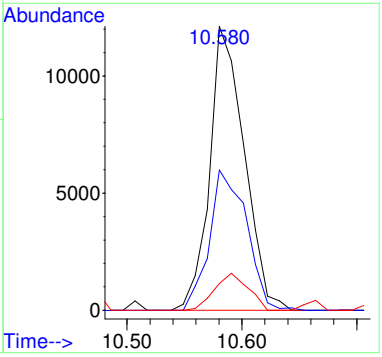


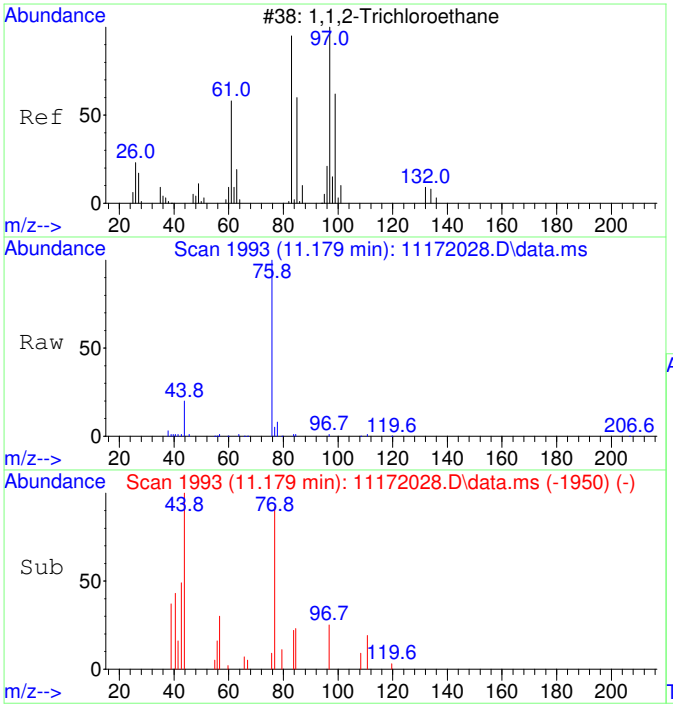


#37
Toluene SCAN
Concen: 334.40 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 25409

Ion	Ratio	Lower	Upper
91	100		
92	53.1	28.3	88.3
65	12.7	0.0	41.0

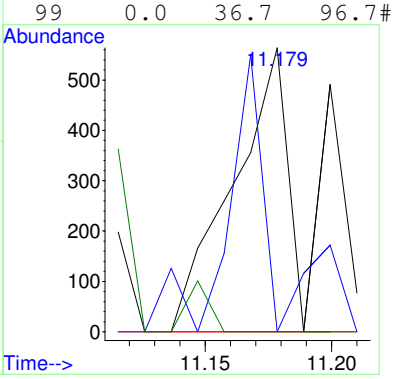


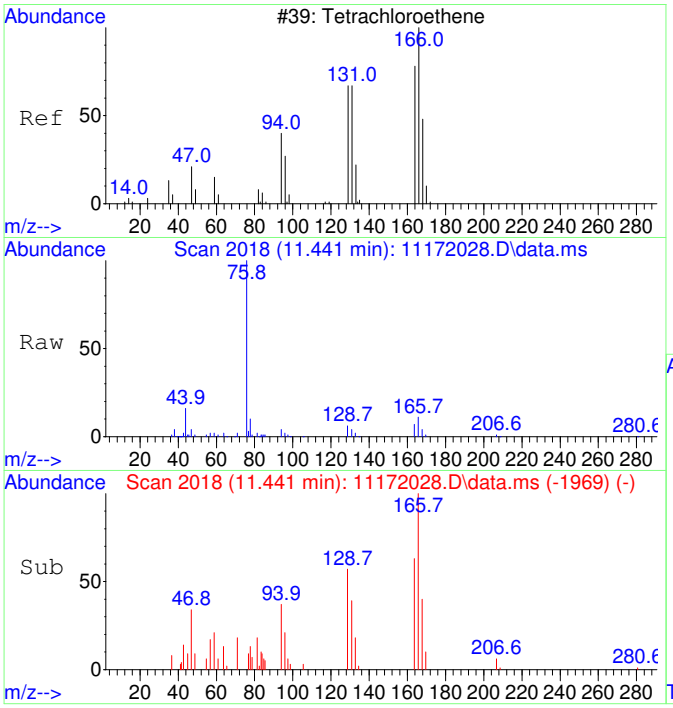


#38
1,1,2-Trichloroethane SCAN
Concen: 49.66 ug/L
RT: 11.179 min Scan# 1993
Delta R.T. -0.053 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 97 Resp: 847

Ion	Ratio	Lower	Upper
97	100		
83	83.2	57.7	117.7
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

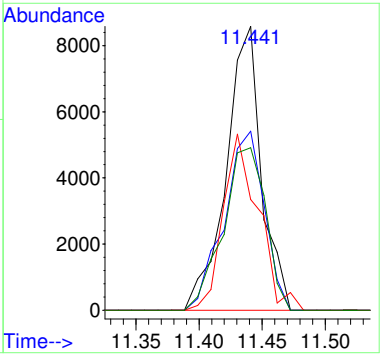


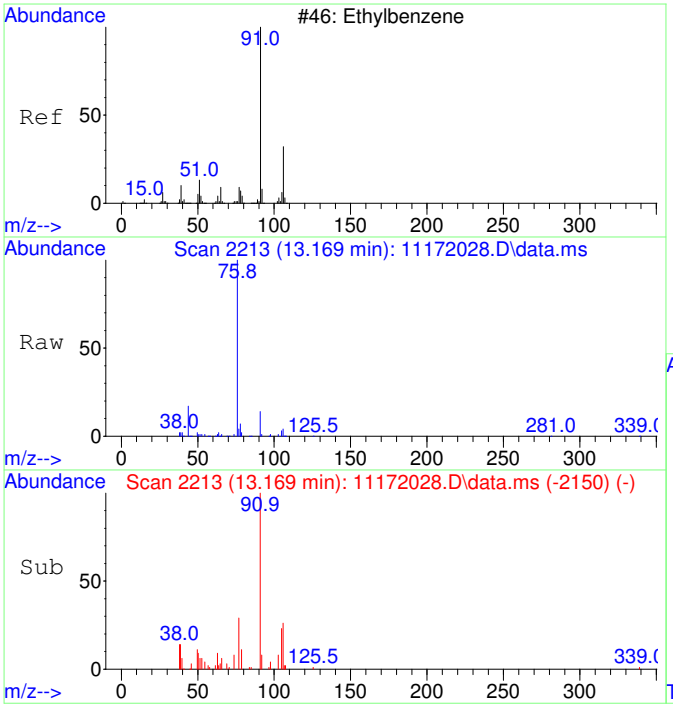


#39
Tetrachloroethene SCAN
Concen: 913.14 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:166 Resp: 16669

Ion	Ratio	Lower	Upper
166	100		
164	71.8	50.9	110.9
131	61.7	38.7	98.7
129	68.8	41.8	101.8

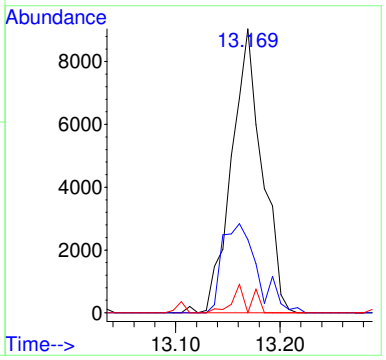


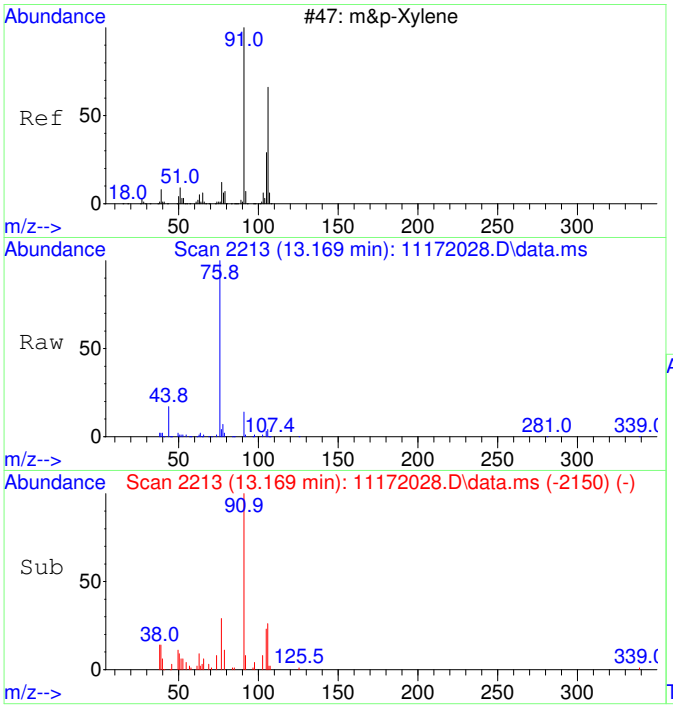


#42
Ethylbenzene SCAN
Concen: 133.21 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 18440

Ion	Ratio	Lower	Upper
91	100		
106	36.2	23.1	83.1
51	5.6	0.0	40.1

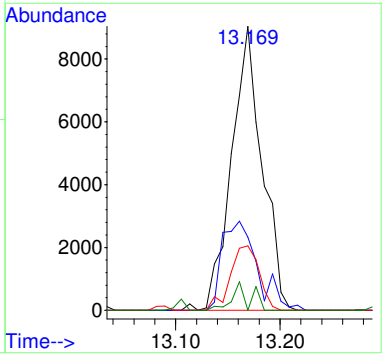


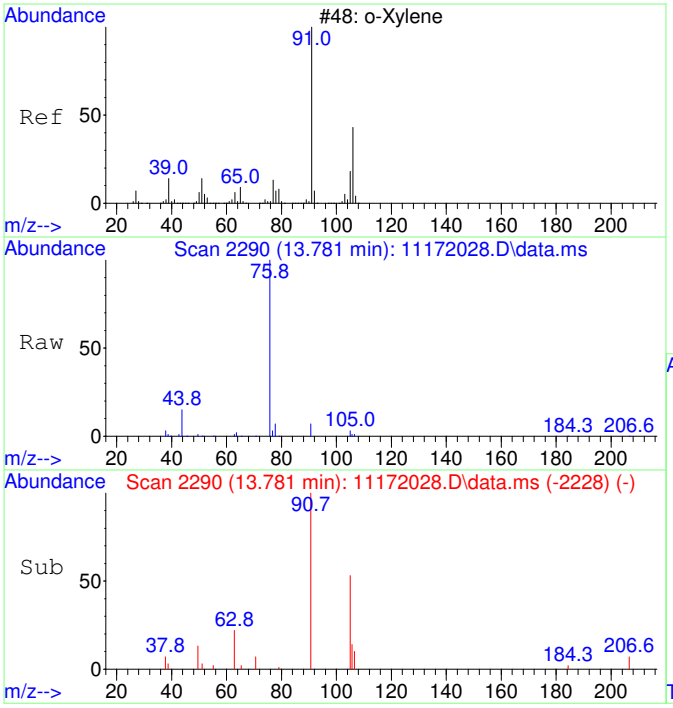


#43
m&p-Xylene SCAN
Concen: 133.21 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 18440

Ion	Ratio	Lower	Upper
91	100		
106	36.2	23.1	83.1
105	21.5	0.0	54.7
51	5.6	0.0	40.1

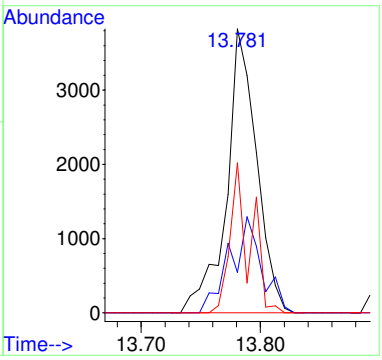


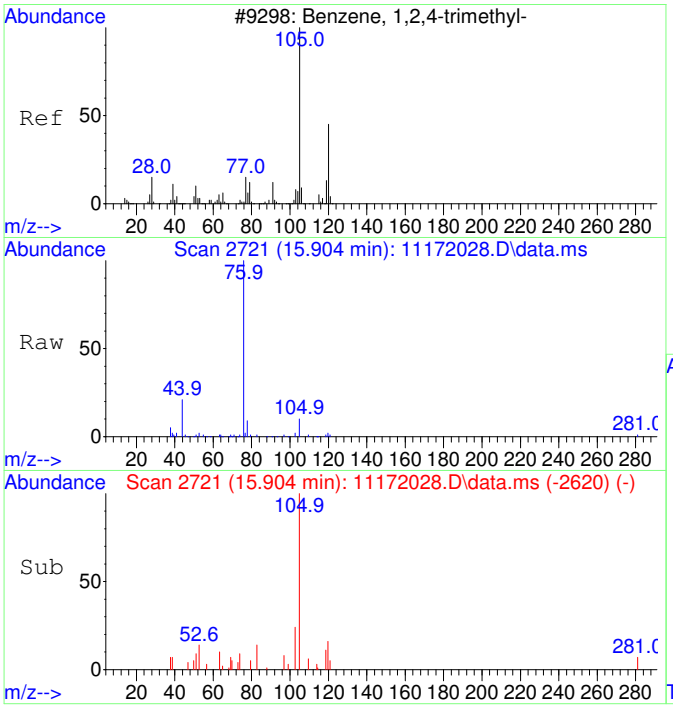


#44
o-Xylene SCAN
Concen: 90.41 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion: 91 Resp: 6699

Ion	Ratio	Lower	Upper
91	100		
106	35.9	18.0	78.0
105	35.6	0.0	56.6

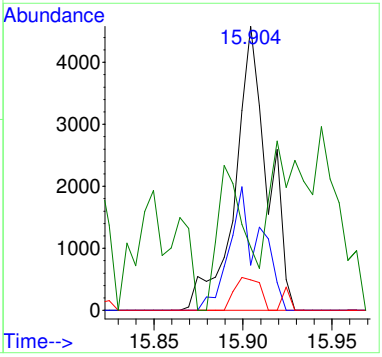




#47
1,2,4-Trimethylbenzene SCAN
Concen: 73.21 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172028.D
Acq: 17 Nov 2020 18:33

Tgt Ion:105 Resp: 5850

Ion	Ratio	Lower	Upper
105	100		
120	40.7	16.9	76.9
119	9.0	0.0	41.9
77	33.3	0.0	42.3



2011017-18

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172029.D
Acq On : 17 Nov 2020 18:57
InstName : AG5975C
Operator : TD
Sample : 2011017-18
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 18 06:17:14 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

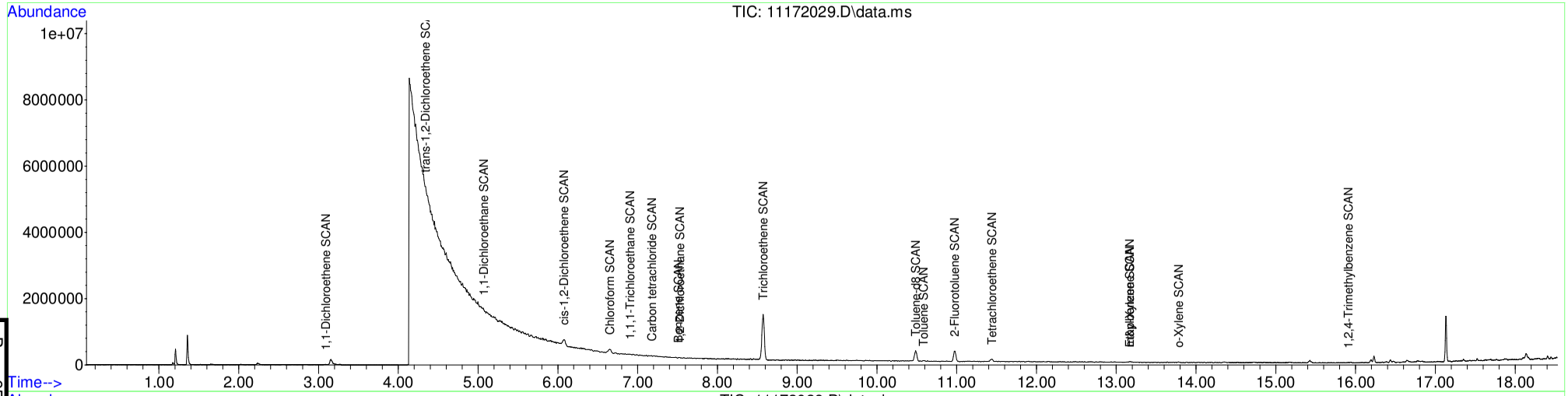
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	558246	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	485640	4443.89 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.88%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	11774	528.18 ug/L	84
3] trans-1,2-Dichloroethene	4.349	61	14422	559.97 ug/L	97
4] 1,1-Dichloroethane	5.072	63	14632	456.39 ug/L	94
5] cis-1,2-Dichloroethene	6.081	61	279671	8264.09 ug/L	99
6] Chloroform	6.652	83	178661	5157.90 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	10449	277.77 ug/L	100
8] Carbon tetrachloride	7.175	117	4162	117.55 ug/L	99
9] Benzene	7.503	78	18329	193.24 ug/L	78
10] 1,2-Dichloroethane	7.540	62	1200	35.44 ug/L #	23
11] Trichloroethene	8.575	130	1014501	35524.45 ug/L **oc**	94
13] Toluene	10.582	91	37718	270.72 ug/L	98
14] 1,1,2-Trichloroethane	11.169	97	973	32.05 ug/L #	17
15] Tetrachloroethene	11.432	166	47908	1188.18 ug/L	99
18] Ethylbenzene	12.972	91	11439	67.45 ug/L	96
19] m&p-Xylene	13.162	91	23047	173.88 ug/L	95
20] o-Xylene	13.782	91	9518	67.21 ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	9351	59.73 ug/L	93
25) 2-Fluorotoluene SCAN	10.969	109	270729	4974.93 ug/L	96
26) 1,1-Dichloroethene SCAN	3.088	61	5614	485.77 ug/L #	73
27) trans-1,2-Dichloroethe...	4.341	61	8397	587.17 ug/L #	75
28) 1,1-Dichloroethane SCAN	5.071	63	6602	398.90 ug/L	76
29) cis-1,2-Dichloroethene...	6.080	61	151885	8565.44 ug/L #	85
30) Chloroform SCAN	6.650	83	87673	4558.43 ug/L	88
31) 1,1,1-Trichloroethane ...	6.906	97	4988	284.59 ug/L #	45
32) Carbon tetrachloride SCAN	7.173	117	2297	125.64 ug/L #	22
33) Benzene SCAN	7.514	78	21337	442.15 ug/L	99
34) 1,2-Dichloroethane SCAN	7.526	62	612	34.34 ug/L #	40
35) Trichloroethene SCAN	8.573	130	480129	36204.48 ug/L	88
36) Toluene-d8 SCAN	10.486	98	234594	4408.02 ug/L	100
37) Toluene SCAN	10.580	91	20314	298.05 ug/L	94
39) Tetrachloroethene SCAN	11.441	166	21200	1294.72 ug/L	92
42) Ethylbenzene SCAN	13.169	91	12481	100.52 ug/L	92
43) m&p-Xylene SCAN	13.169	91	12481	100.52 ug/L	92
44) o-Xylene SCAN	13.781	91	6862	103.24 ug/L	66
47) 1,2,4-Trimethylbenzene...	15.904	105	4329	60.40 ug/L #	57

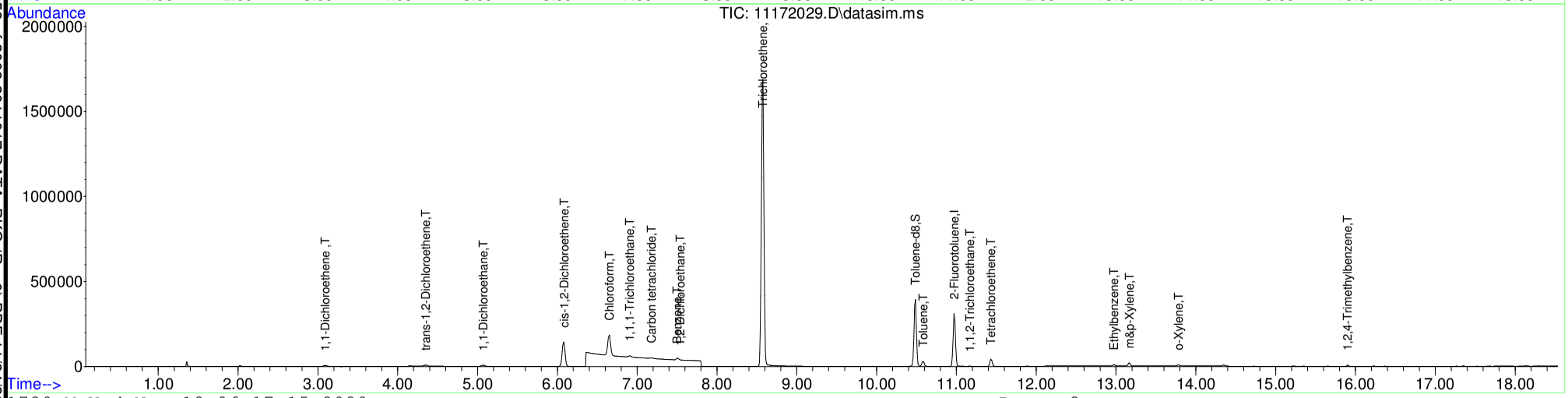
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172029.D
Acq On : 17 Nov 2020 18:57
InstName : AG5975C
Operator : TD
Sample : 2011017-18
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 18 06:17:14 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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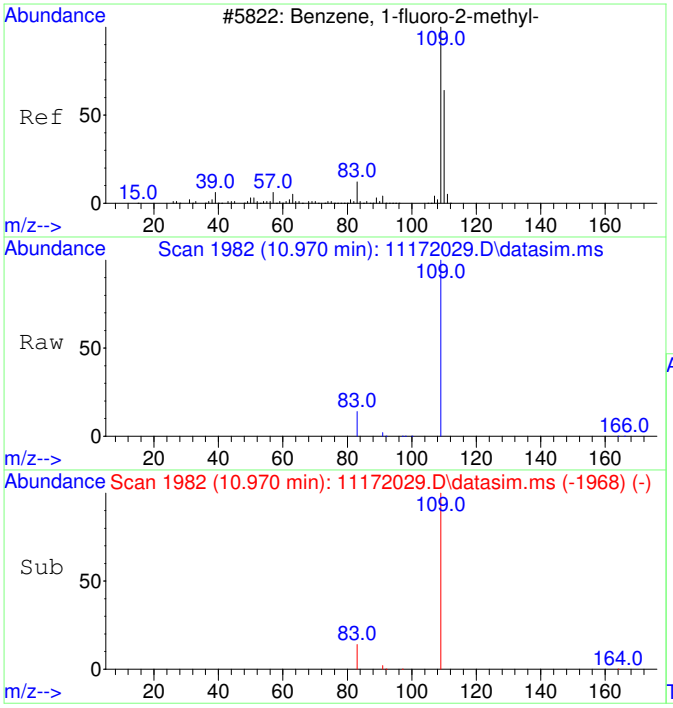
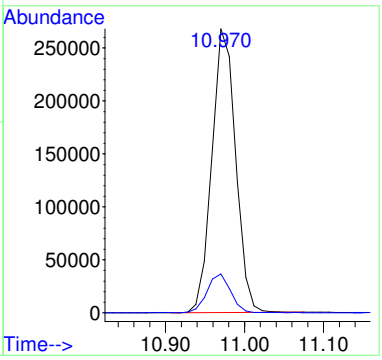
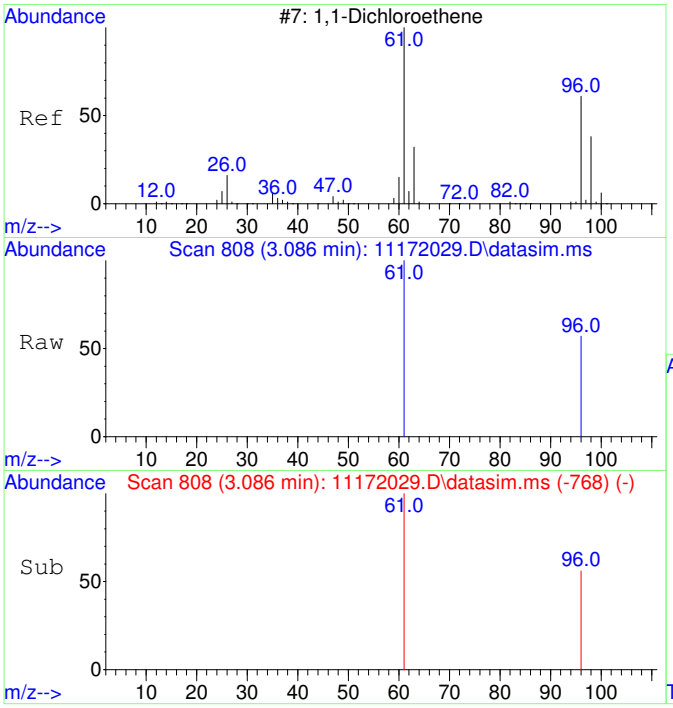


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:109 Resp: 558246

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

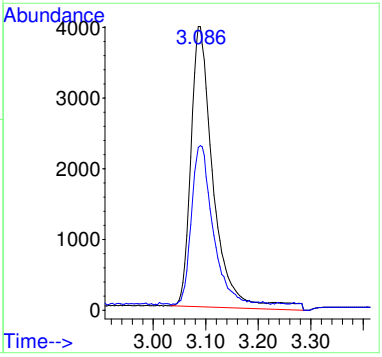




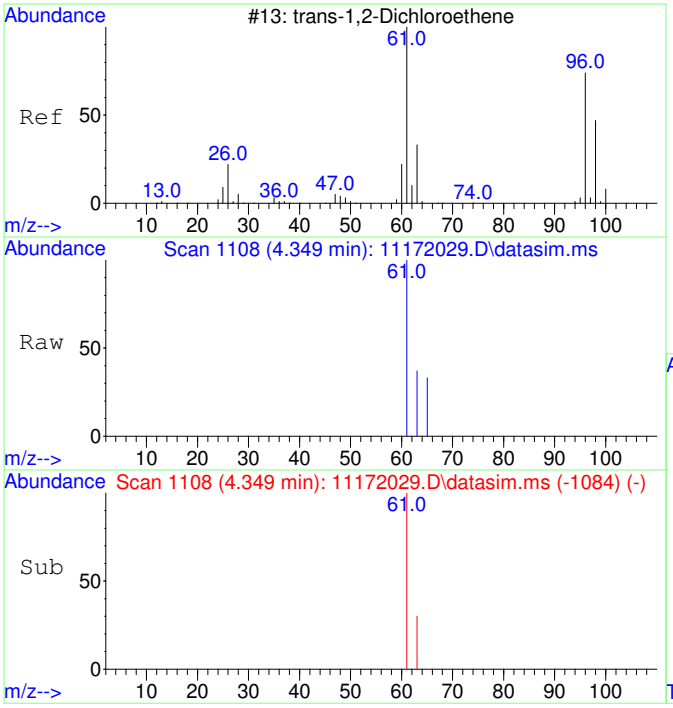
#2
1,1-Dichloroethene
Concen: 528.18 ug/L
RT: 3.086 min Scan# 808
Delta R.T. 0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 61 Resp: 11774

Ion	Ratio	Lower	Upper
61	100		
96	54.7	37.2	97.2



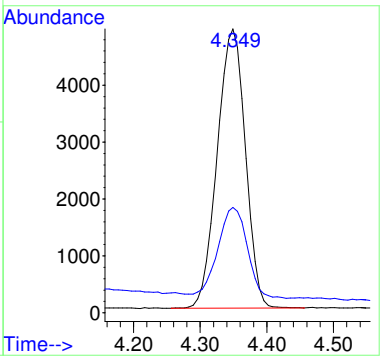
Before MI:
IMPROPER
BASELINE

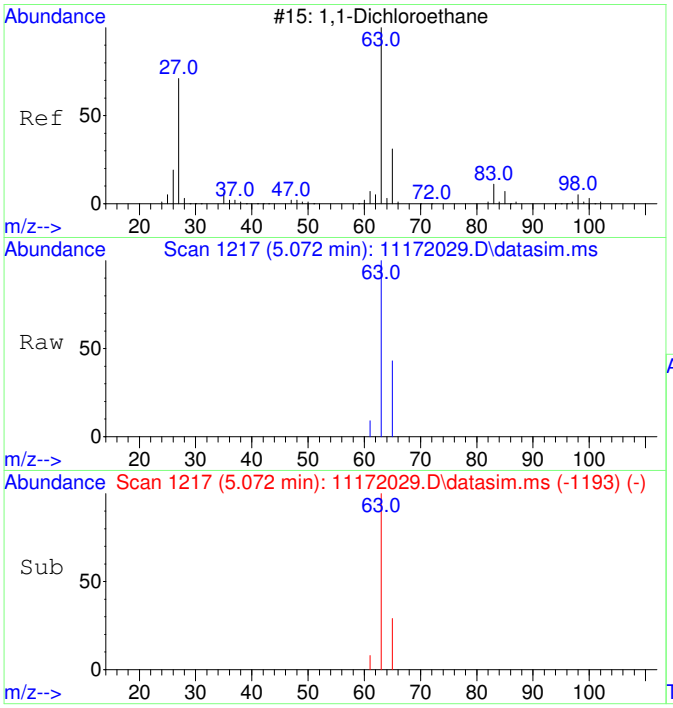


#3
trans-1,2-Dichloroethene
Concen: 559.97 ug/L
RT: 4.349 min Scan# 1108
Delta R.T. 0.007 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 61 Resp: 14422

Ion	Ratio	Lower	Upper
61	100		
63	34.3	2.4	62.4

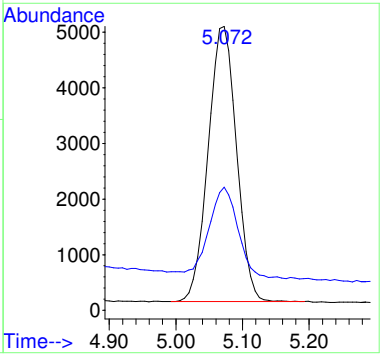


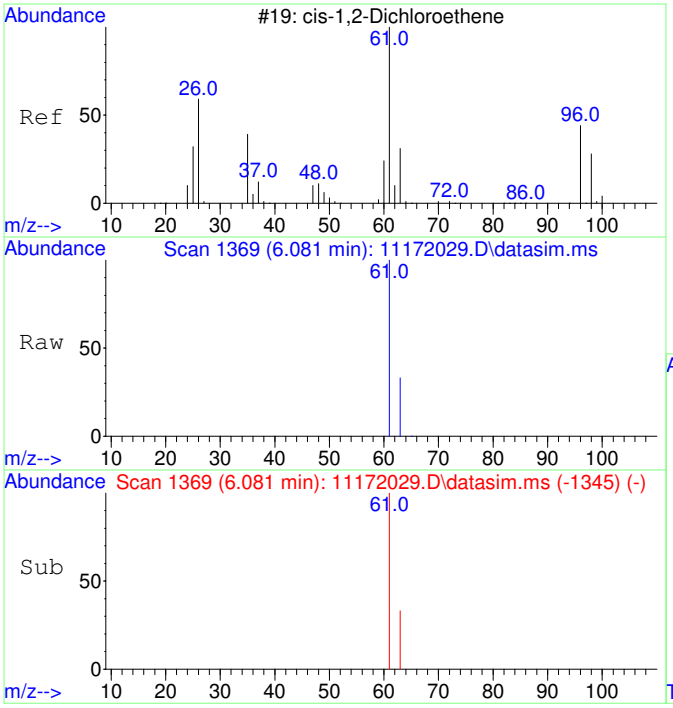


#4
1,1-Dichloroethane
Concen: 456.39 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 63 Resp: 14632

Ion	Ratio	Lower	Upper
63	100		
65	35.1	1.8	61.8

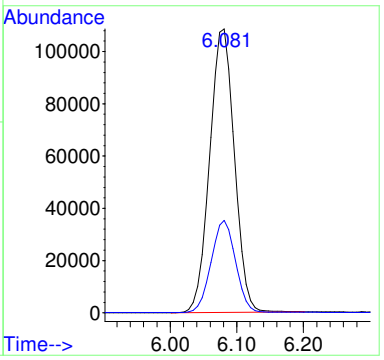


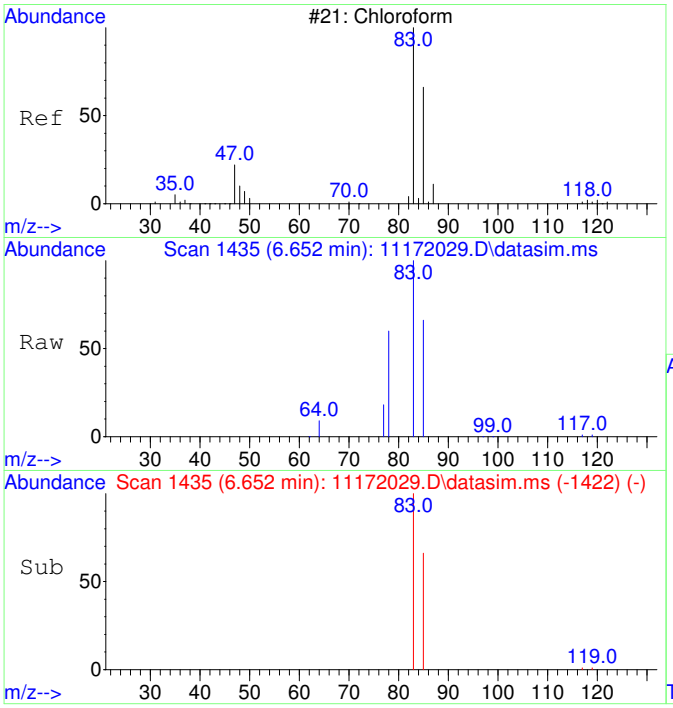


#5
cis-1,2-Dichloroethene
Concen: 8264.09 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 61 Resp: 279671

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

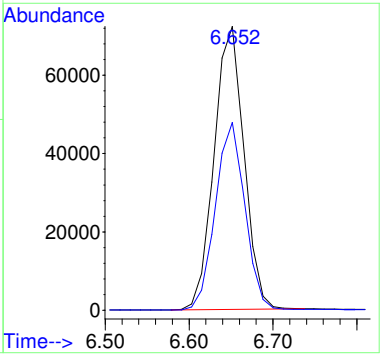


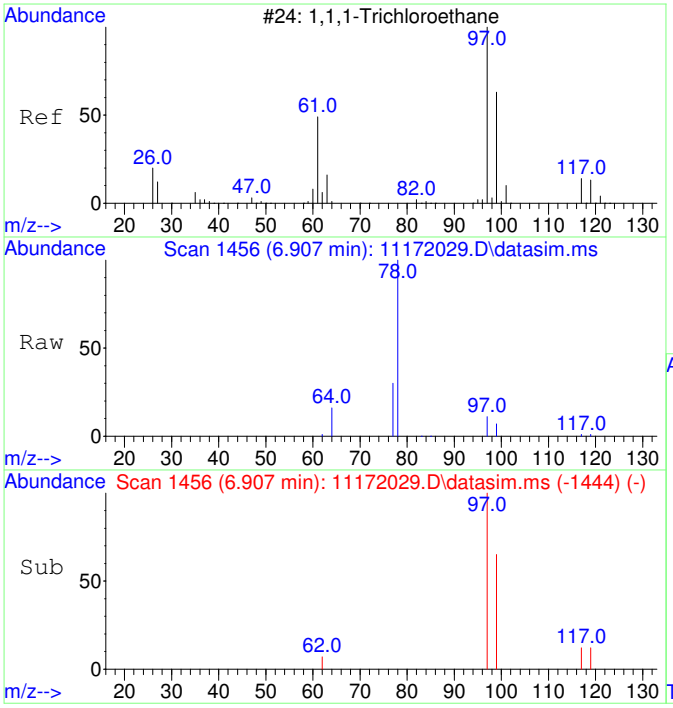


#6
Chloroform
Concen: 5157.90 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 83 Resp: 178661

Ion	Ratio	Lower	Upper
83	100		
85	64.9	35.1	95.1

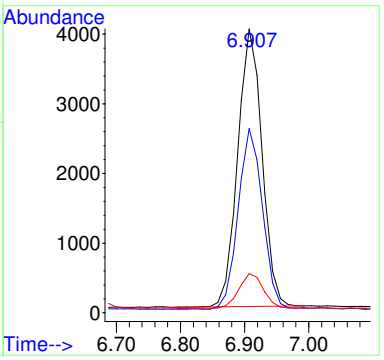


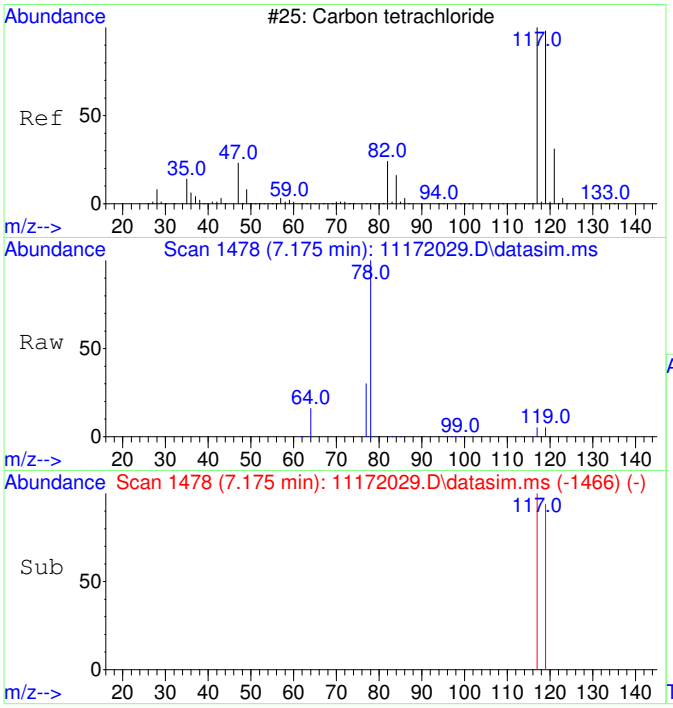


#7
1,1,1-Trichloroethane
Concen: 277.77 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 97 Resp: 10449

Ion	Ratio	Lower	Upper
97	100		
99	64.6	34.6	94.6
117	12.7	0.0	43.2

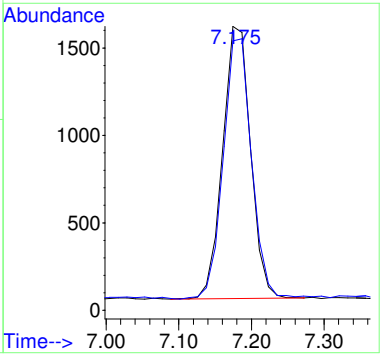


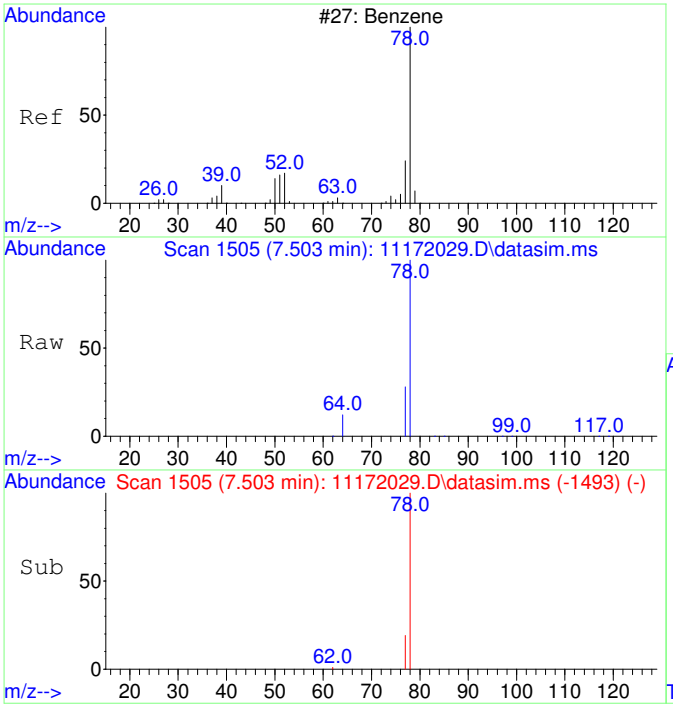


#8
Carbon tetrachloride
Concen: 117.55 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:117 Resp: 4162

Ion	Ratio	Lower	Upper
117	100		
119	95.8	66.4	126.4

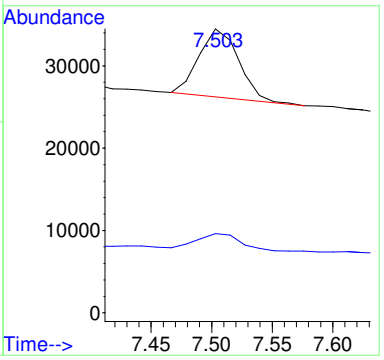


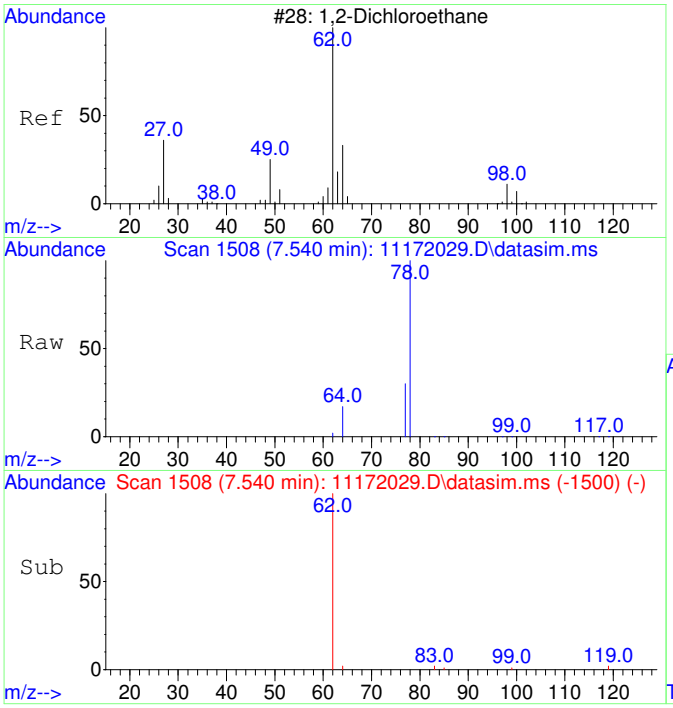


#9
Benzene
Concen: 193.24 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 78 Resp: 18329

Ion	Ratio	Lower	Upper
78	100		
77	34.0	0.0	53.2

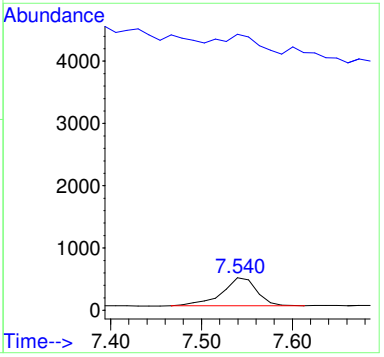


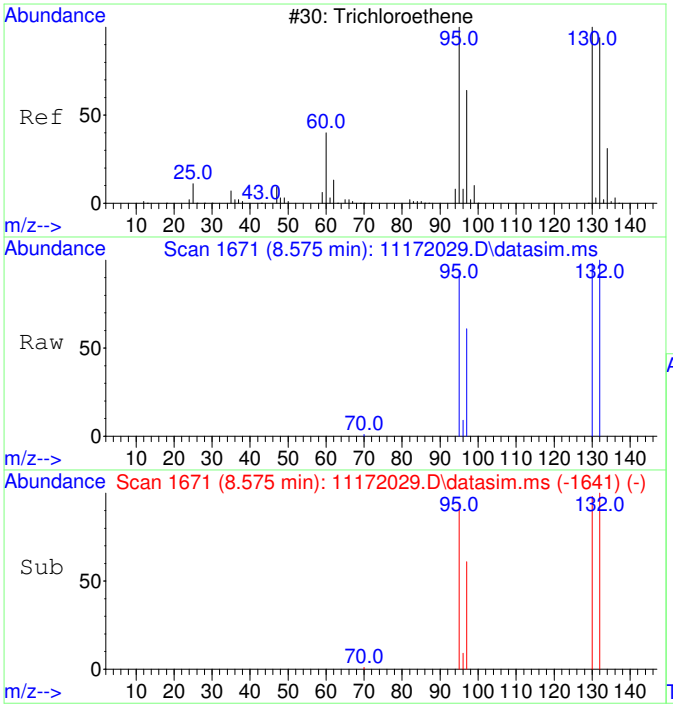


#10
1,2-Dichloroethane
Concen: 35.44 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 62 Resp: 1200

Ion	Ratio	Lower	Upper
62	100		
64	75.7	2.3	62.3#

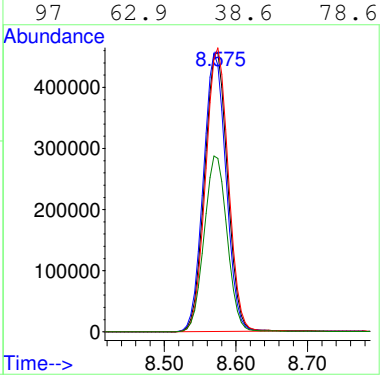


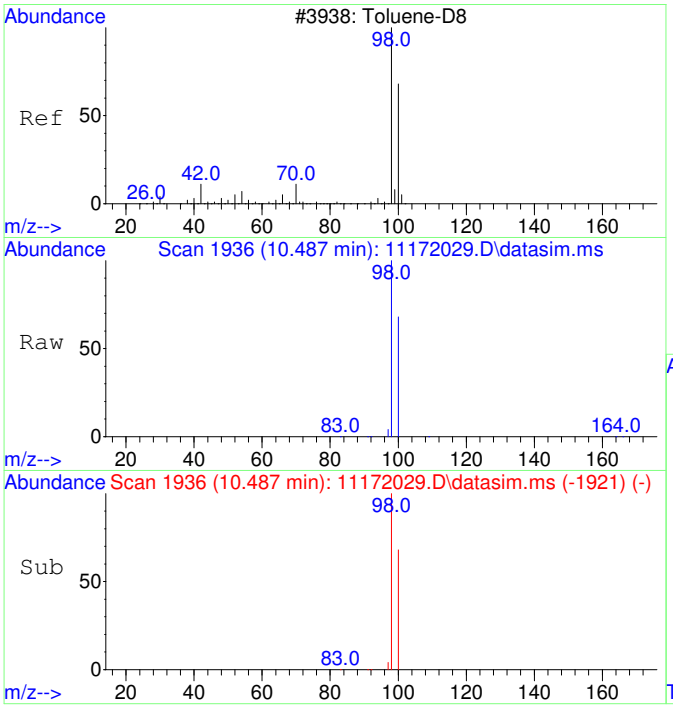


#11
Trichloroethene
Concen: 35524.45 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:130 Resp: 1014501

Ion	Ratio	Lower	Upper
130	100		
95	98.5	60.7	120.7
132	100.4	76.0	116.0
97	62.9	38.6	78.6

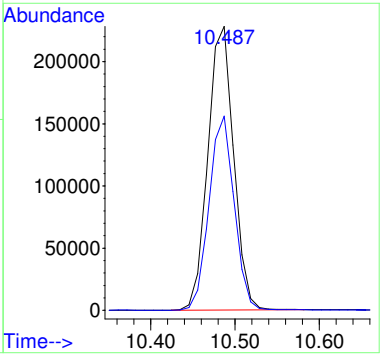


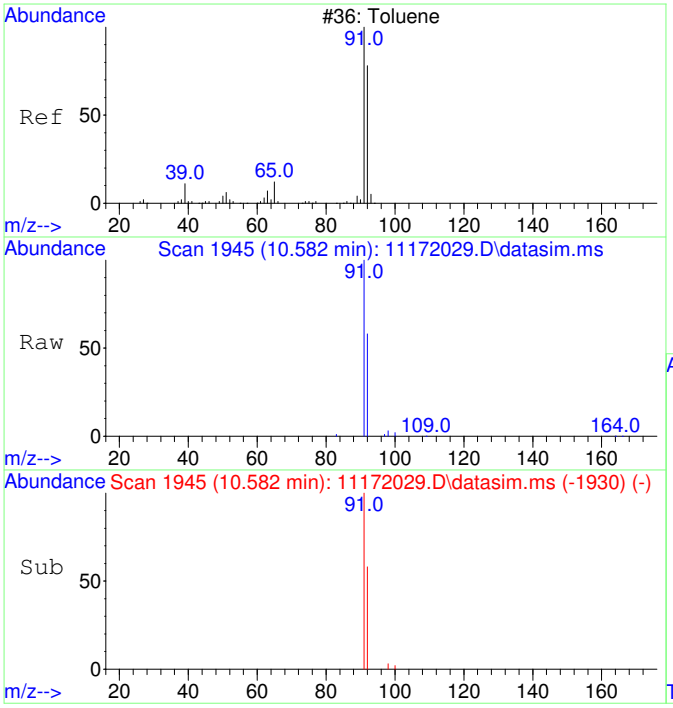


#12
Toluene-d8
Concen: 4443.89 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 98 Resp: 485640

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

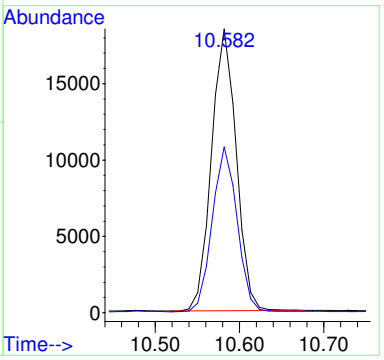


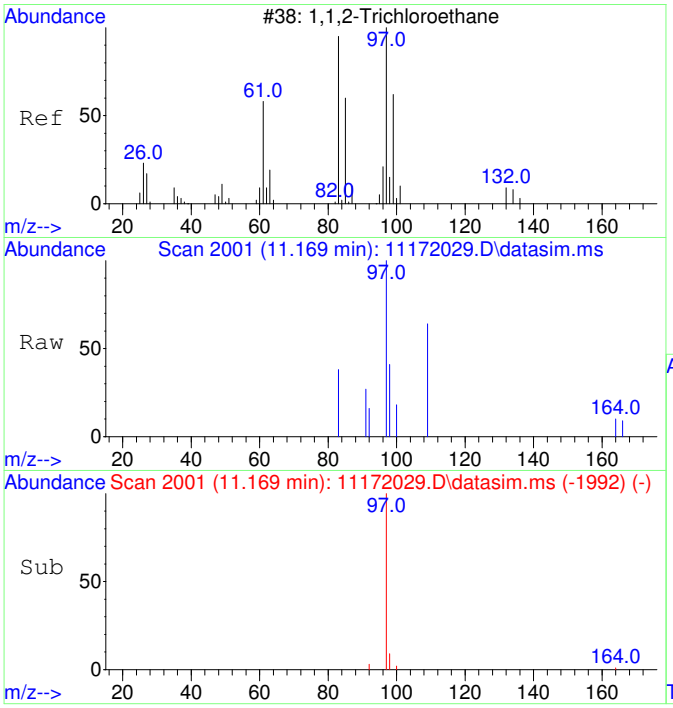


#13
Toluene
Concen: 270.72 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 37718

Ion	Ratio	Lower	Upper
91	100		
92	58.3	29.9	89.9

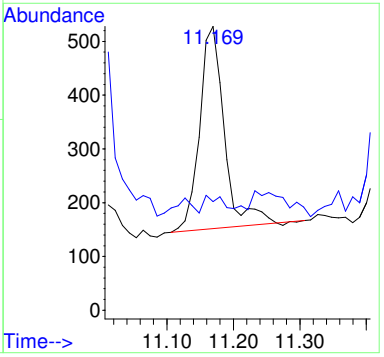




#14
1,1,2-Trichloroethane
Concen: 32.05 ug/L
RT: 11.169 min Scan# 2001
Delta R.T. -0.053 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 97 Resp: 973

Ion	Ratio	Lower	Upper
97	100		
83	7.4	51.2	111.2#



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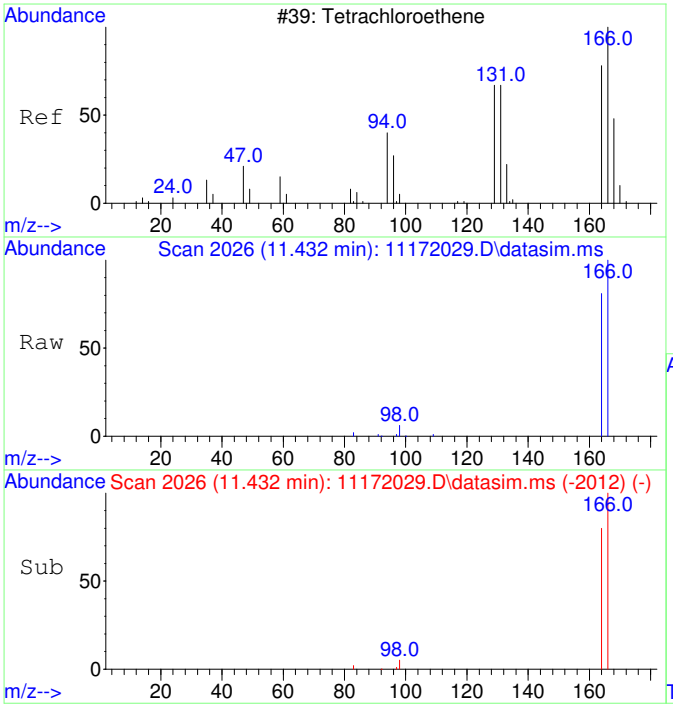
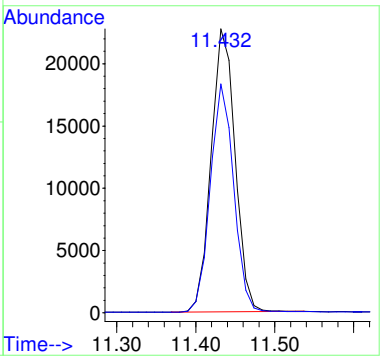
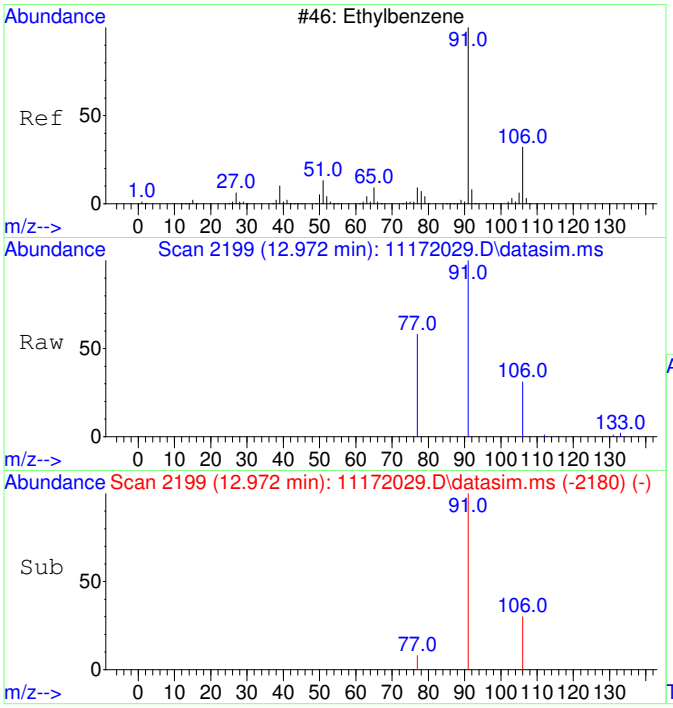


#15
Tetrachloroethene
Concen: 1188.18 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:166 Resp: 47908

Ion	Ratio	Lower	Upper
166	100		
164	78.4	47.8	107.8

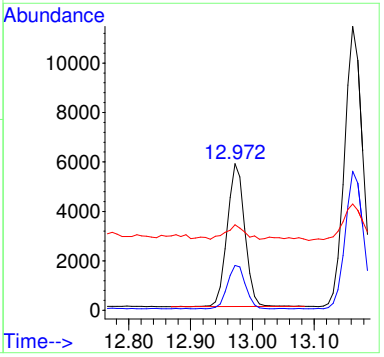


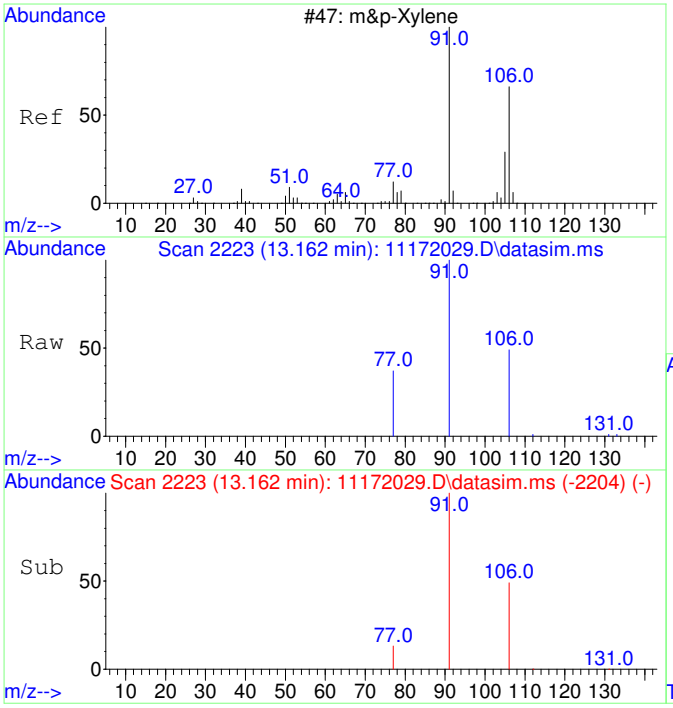


#18
Ethylbenzene
Concen: 67.45 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 11439

Ion	Ratio	Lower	Upper
91	100		
106	31.3	3.0	63.0
77	11.0	0.0	38.2

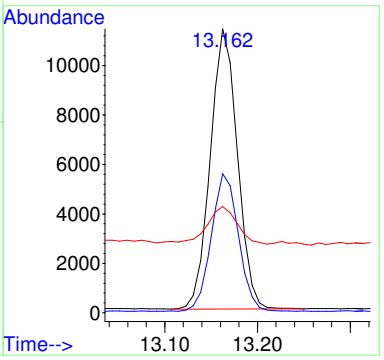


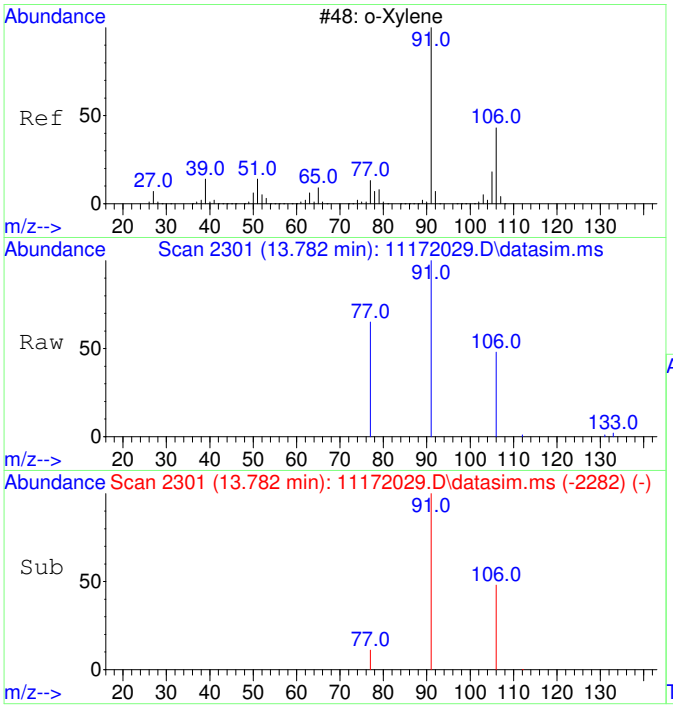


#19
m&p-Xylene
Concen: 173.88 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 23047

Ion	Ratio	Lower	Upper
91	100		
106	49.2	22.2	82.2
77	15.5	0.0	42.4

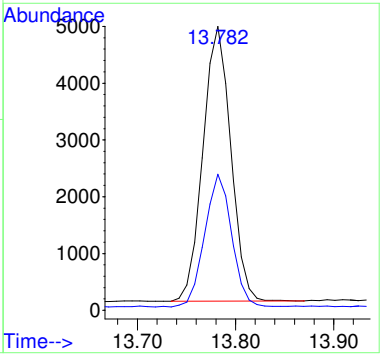


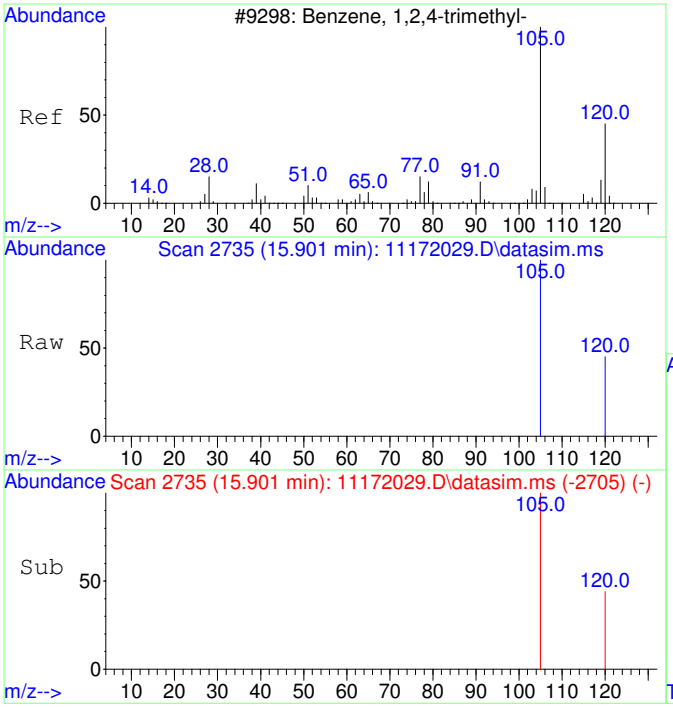


#20
o-Xylene
Concen: 67.21 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 9518

Ion	Ratio	Lower	Upper
91	100		
106	46.6	19.2	79.2

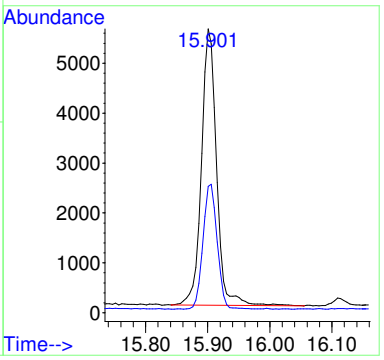


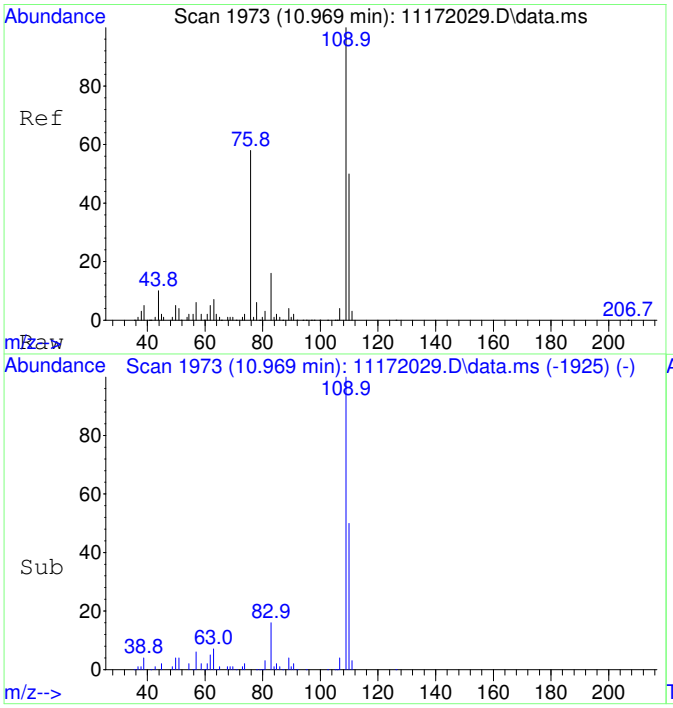


#23
1,2,4-Trimethylbenzene
Concen: 59.73 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:105 Resp: 9351

Ion	Ratio	Lower	Upper
105	100		
120	42.4	17.2	77.2

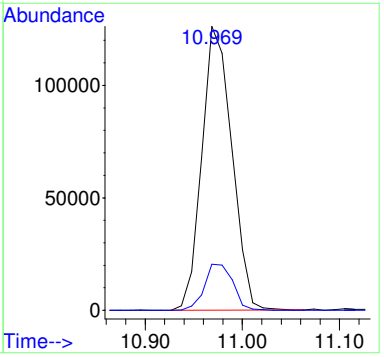


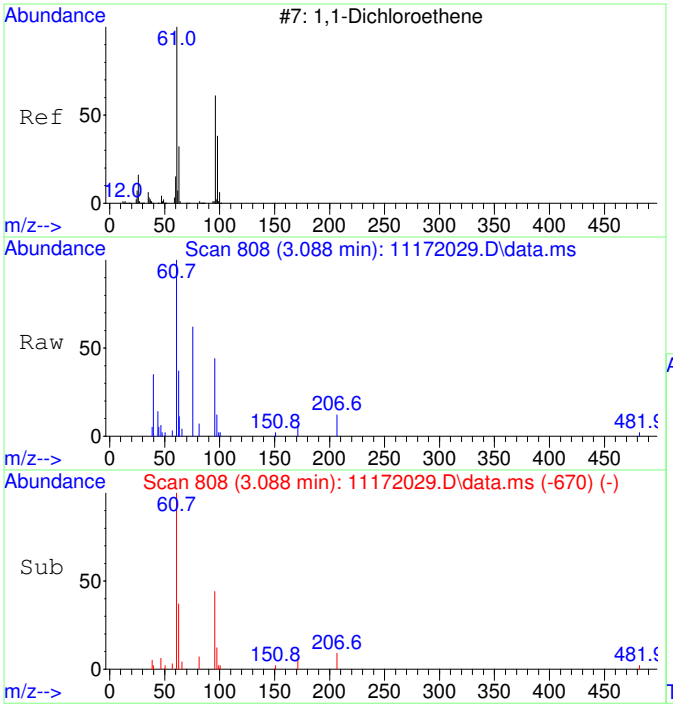


#25
2-Fluorotoluene SCAN
Concen: 4974.93 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:109 Resp: 270729

Ion	Ratio	Lower	Upper
109	100		
83	15.4	0.0	43.8

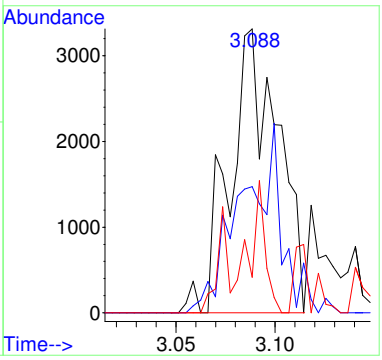


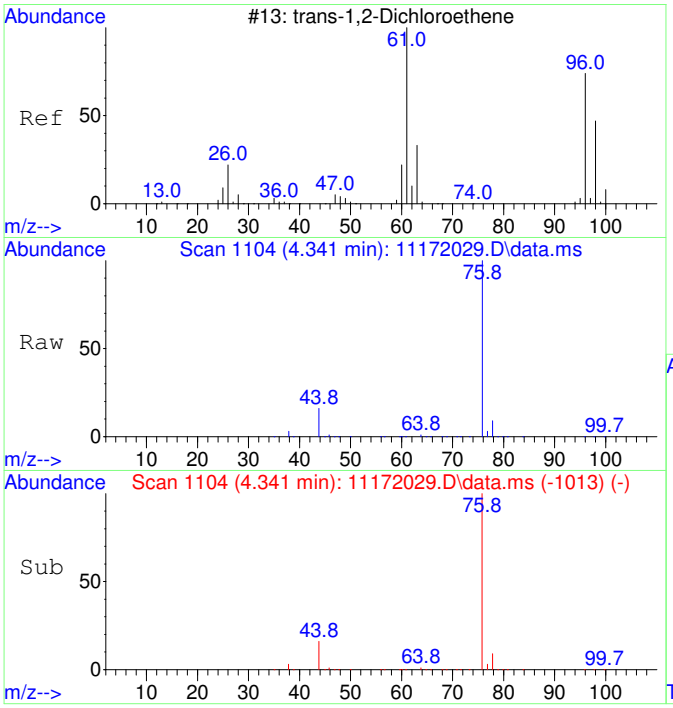


#26
1,1-Dichloroethene SCAN
Concen: 485.77 ug/L
RT: 3.088 min Scan# 808
Delta R.T. 0.011 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 61 Resp: 5614

Ion	Ratio	Lower	Upper
61	100		
96	54.8	33.1	93.1
98	9.4	11.2	71.2#

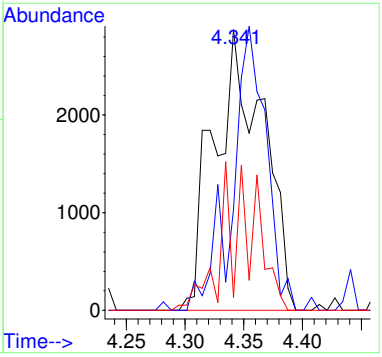


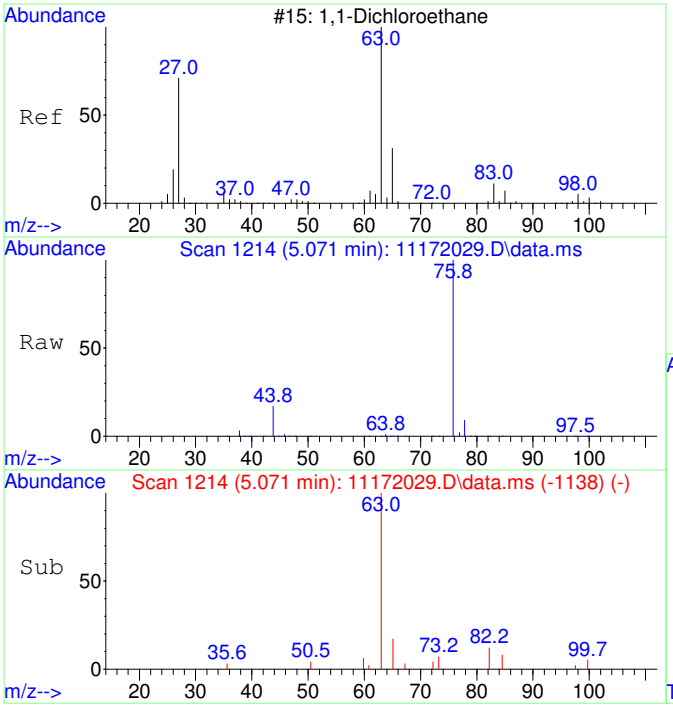


#27
trans-1,2-Dichloroethene SCAN
Concen: 587.17 ug/L
RT: 4.341 min Scan# 1104
Delta R.T. -0.007 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 61 Resp: 8397

Ion	Ratio	Lower	Upper
61	100		
96	69.2	49.0	109.0
98	17.6	20.5	80.5#

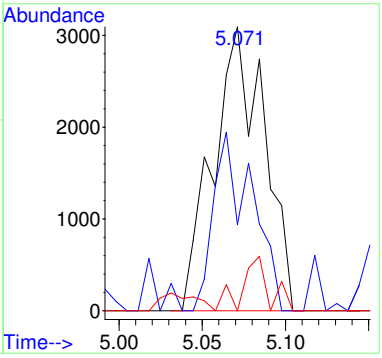


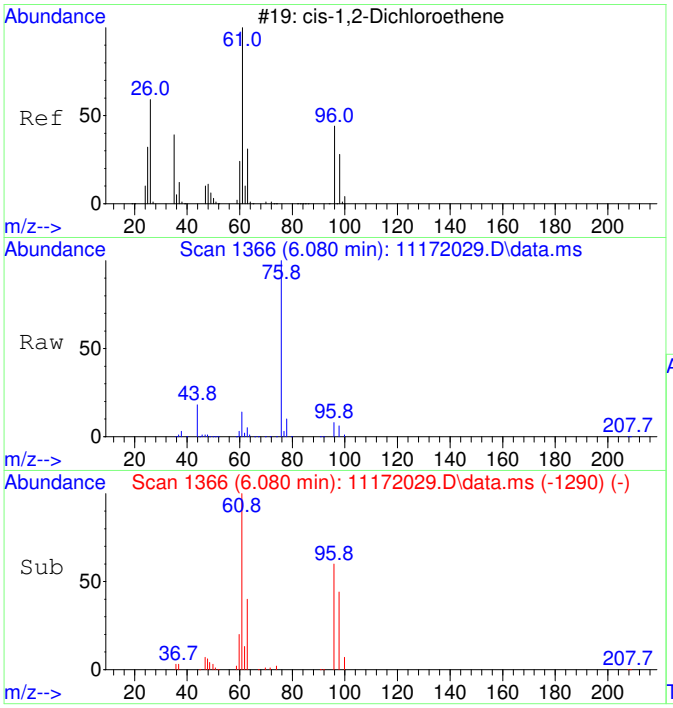


#28
1,1-Dichloroethane SCAN
Concen: 398.90 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 63 Resp: 6602

Ion	Ratio	Lower	Upper
63	100		
65	47.4	1.3	61.3
83	10.0	0.0	45.9

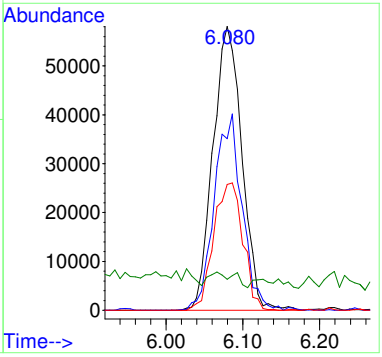


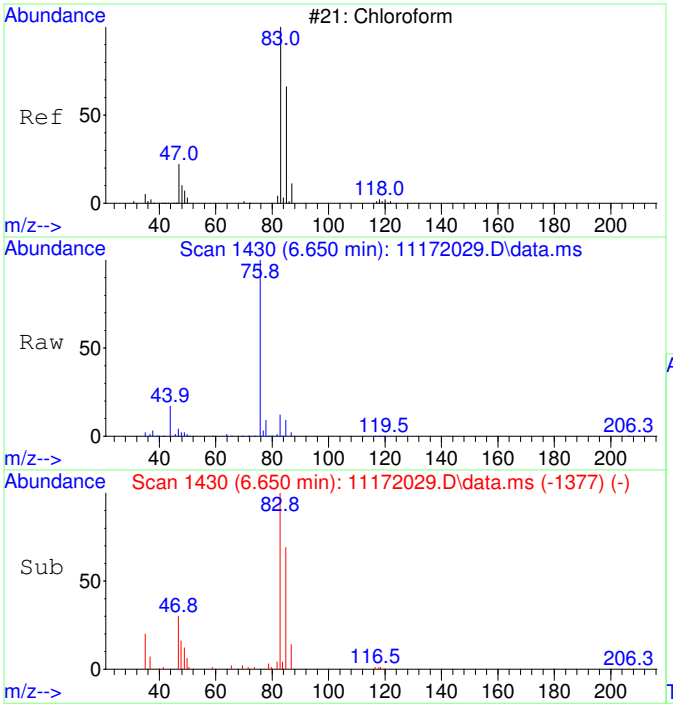


#29
cis-1,2-Dichloroethene SCAN
Concen: 8565.44 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.007 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 61 Resp: 151885

Ion	Ratio	Lower	Upper
61	100		
96	66.0	39.9	99.9
98	45.4	13.5	73.5
64	4.4	4.5	64.5#

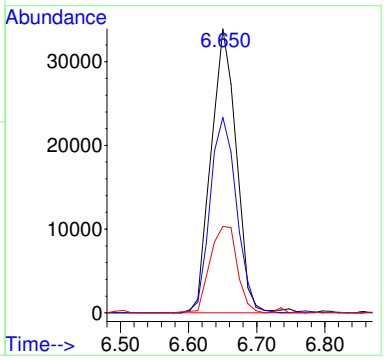


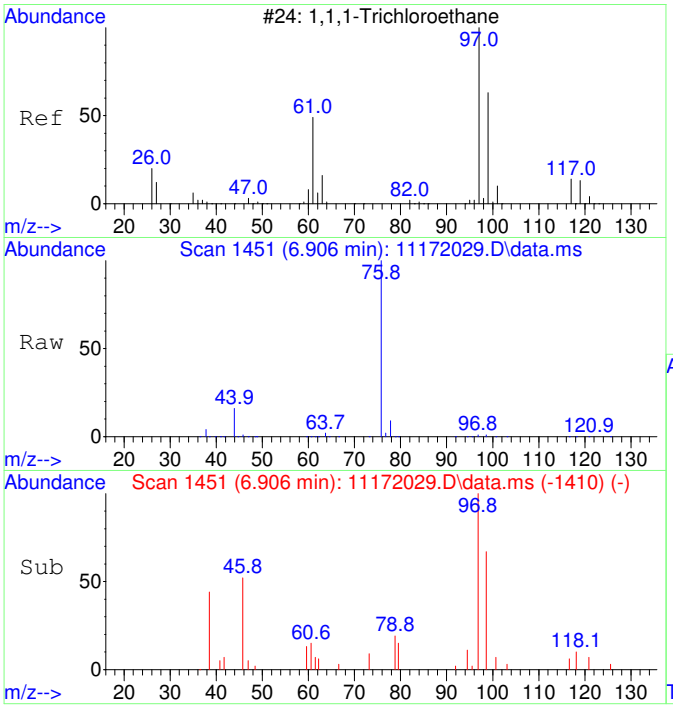


#30
Chloroform SCAN
Concen: 4558.43 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 83 Resp: 87673

Ion	Ratio	Lower	Upper
83	100		
85	71.8	34.6	94.6
47	32.7	0.0	53.4

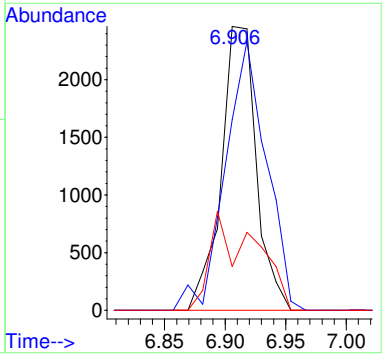


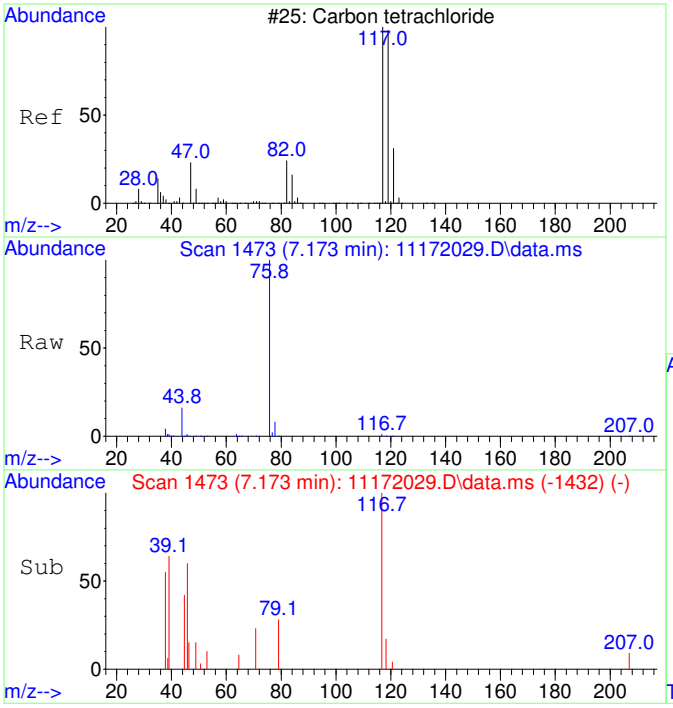


#31
1,1,1-Trichloroethane SCAN
Concen: 284.59 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 97 Resp: 4988

Ion	Ratio	Lower	Upper
97	100		
99	110.8	43.6	103.6#
61	0.0	18.0	78.0#

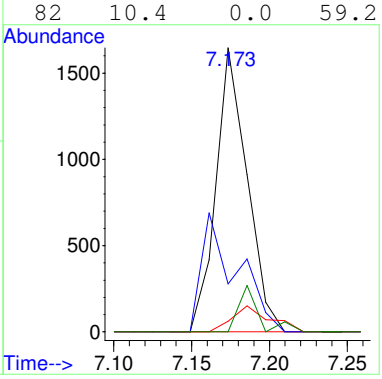


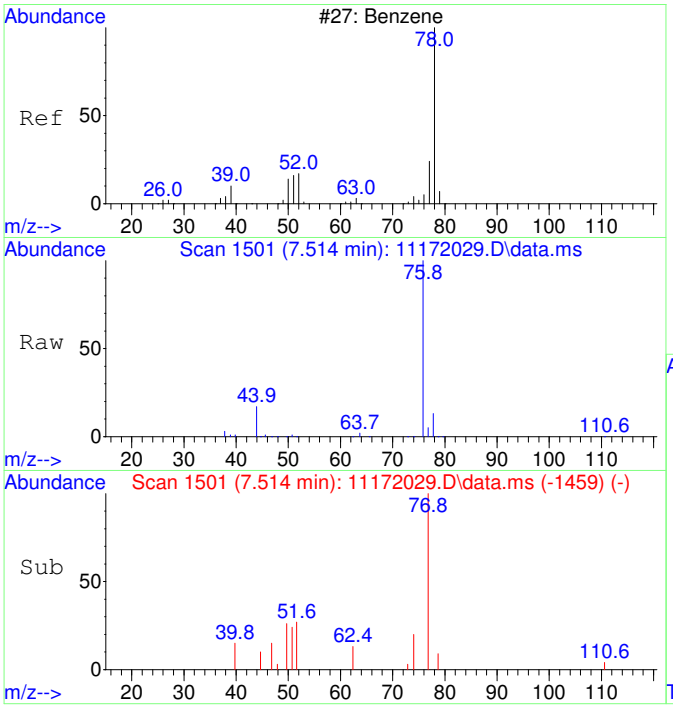


#32
Carbon tetrachloride SCAN
Concen: 125.64 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:117 Resp: 2297

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	11.1	0.0	58.8
82	10.4	0.0	59.2

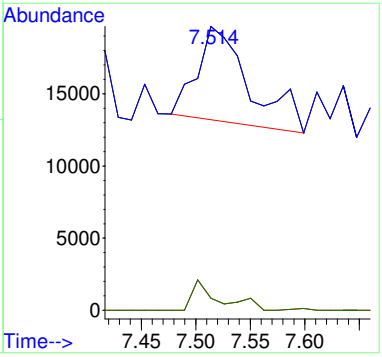


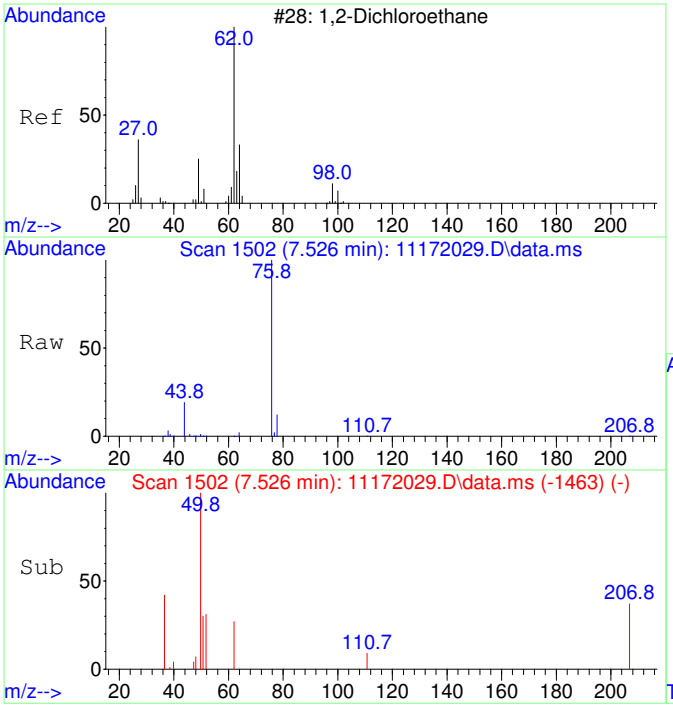


#33
Benzene SCAN
Concen: 442.15 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 78 Resp: 21337

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	16.4	0.0	47.9
51	16.4	0.0	44.1

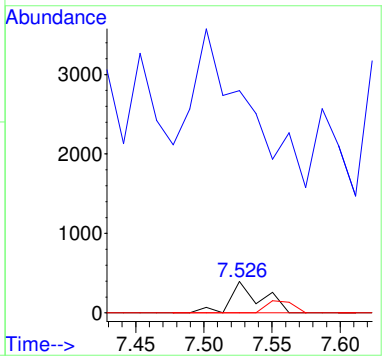


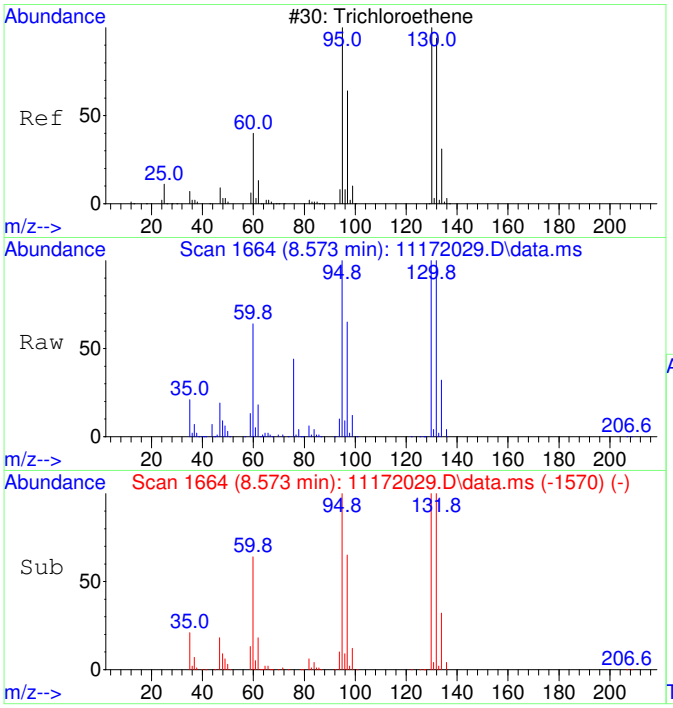


#34
1,2-Dichloroethane SCAN
Concen: 34.34 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. -0.024 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 62 Resp: 612

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	0.0	3.9	63.9#

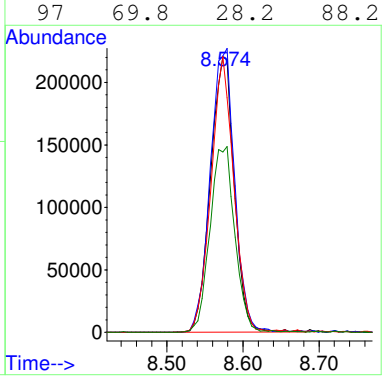


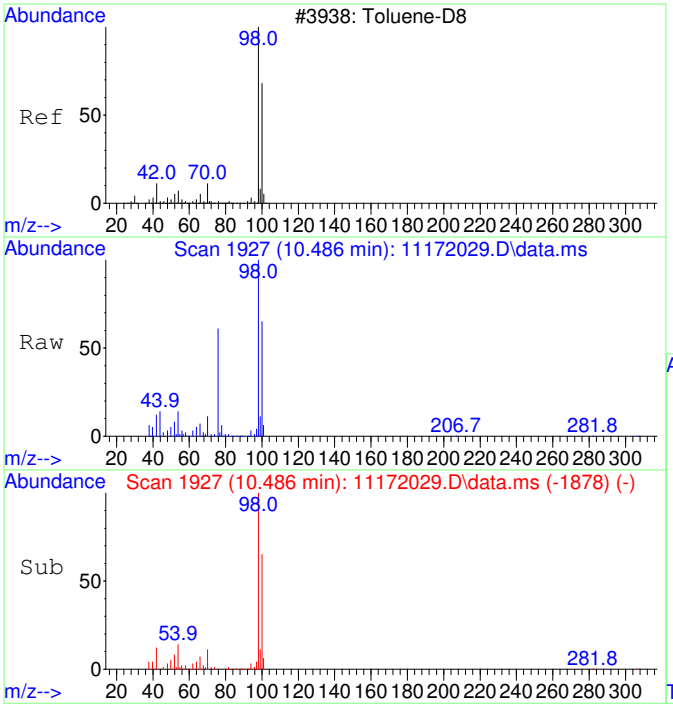


#35
Trichloroethene SCAN
Concen: 36204.48 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:130 Resp: 480129

Ion	Ratio	Lower	Upper
130	100		
95	104.7	60.5	120.5
132	94.9	59.6	119.6
97	69.8	28.2	88.2

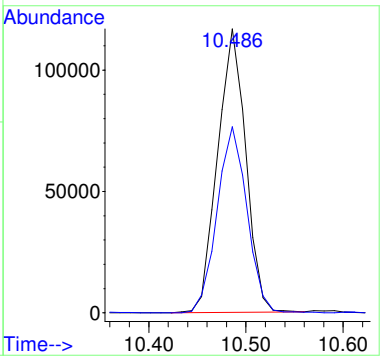


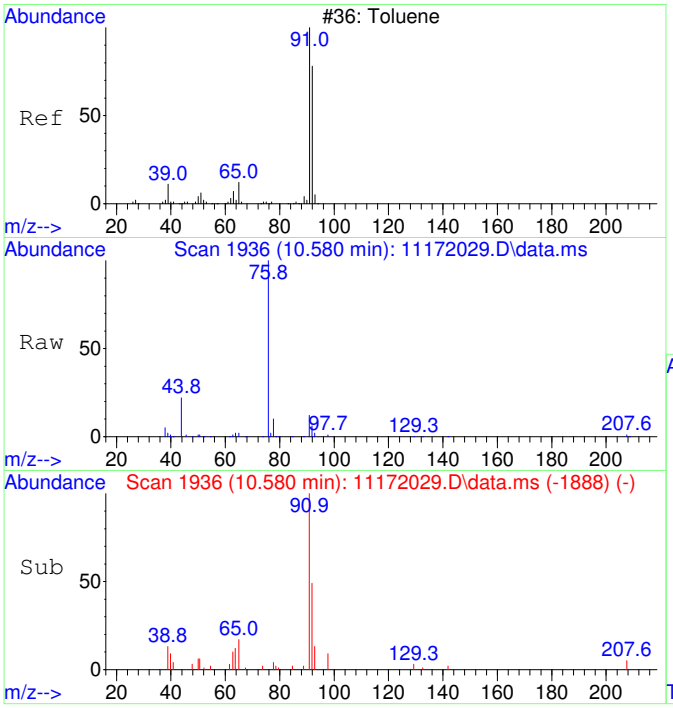


#36
Toluene-d8 SCAN
Concen: 4408.02 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 98 Resp: 234594

Ion	Ratio	Lower	Upper
98	100		
100	69.7	40.0	100.0

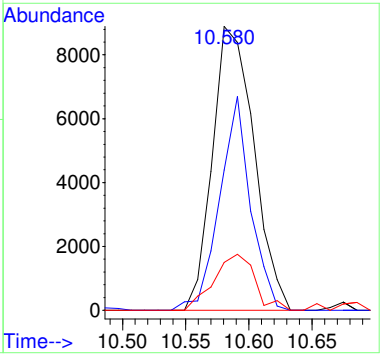


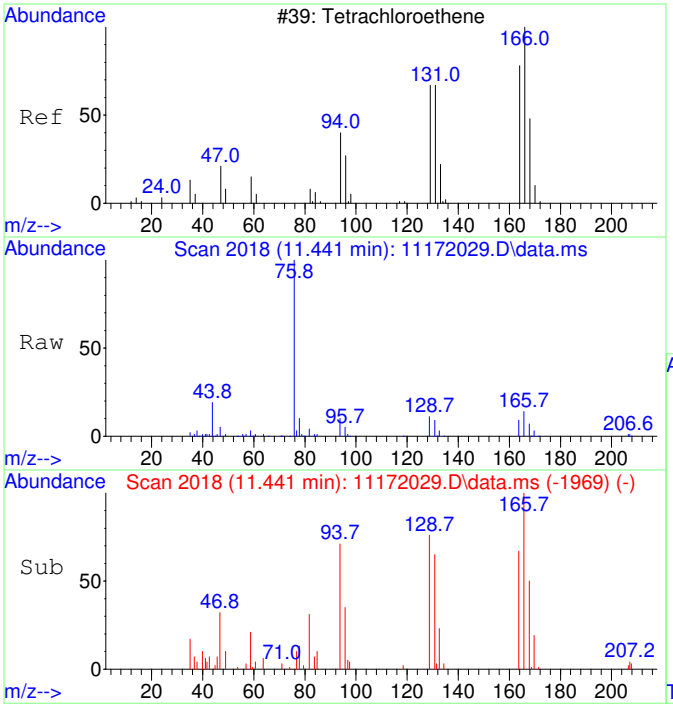


#37
Toluene SCAN
Concen: 298.05 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 20314

Ion	Ratio	Lower	Upper
91	100		
92	56.1	28.3	88.3
65	19.5	0.0	41.0

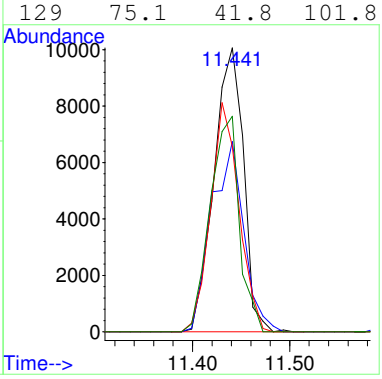


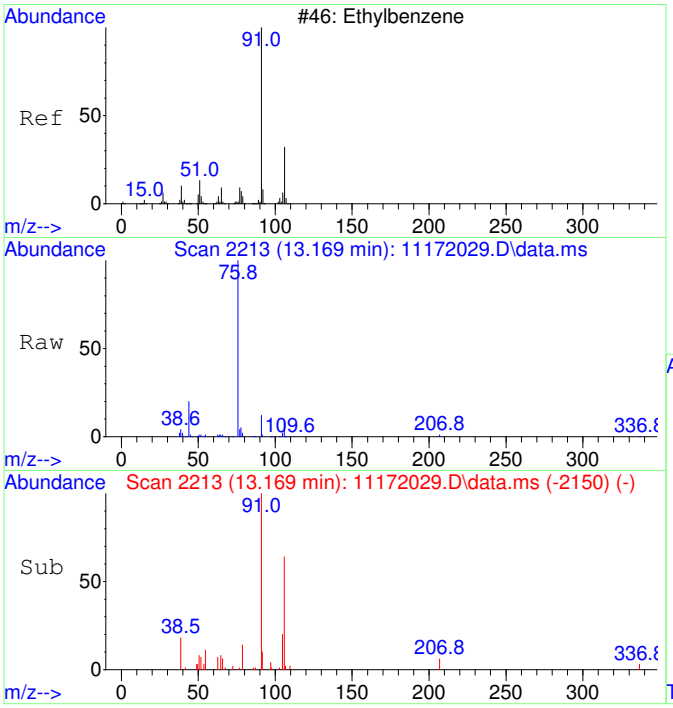


#39
Tetrachloroethene SCAN
Concen: 1294.72 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:166 Resp: 21200

Ion	Ratio	Lower	Upper
166	100		
164	73.4	50.9	110.9
131	77.5	38.7	98.7
129	75.1	41.8	101.8

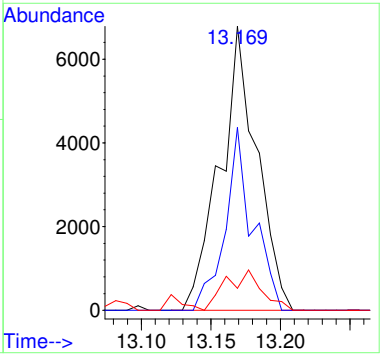


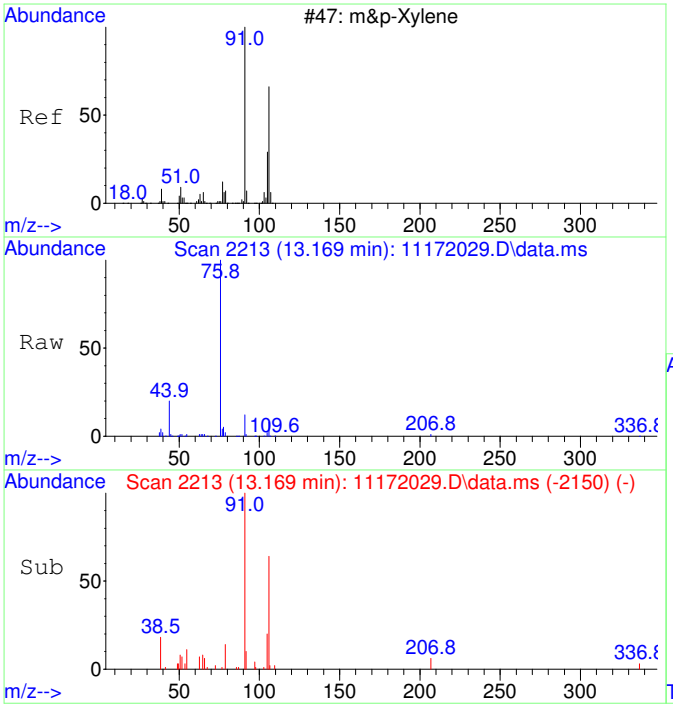


#42
Ethylbenzene SCAN
Concen: 100.52 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 12481

Ion	Ratio	Lower	Upper
91	100		
106	47.8	23.1	83.1
51	13.9	0.0	40.1

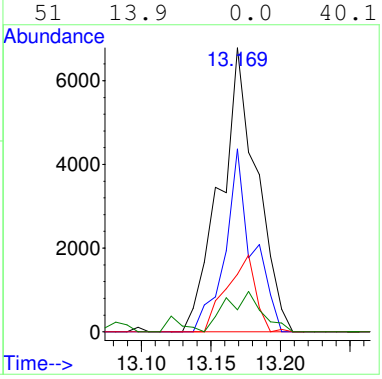


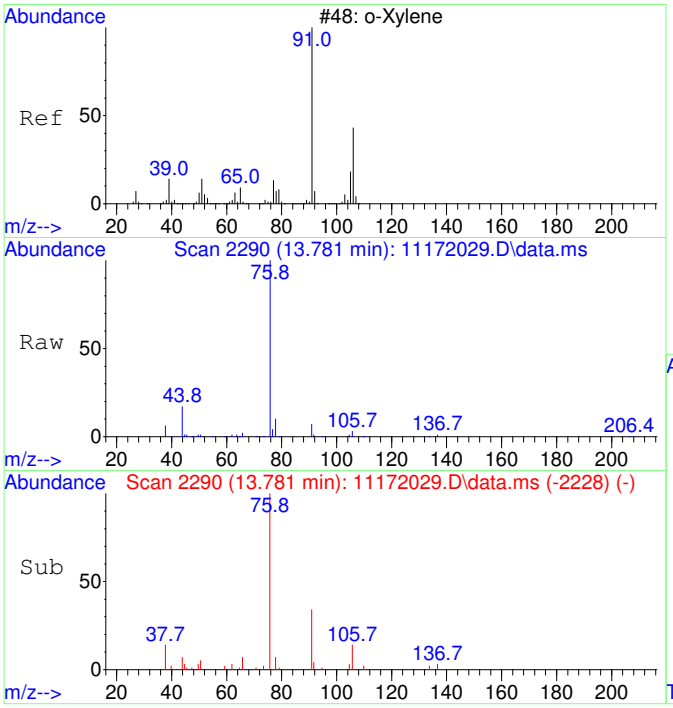


#43
m&p-Xylene SCAN
Concen: 100.52 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 12481

Ion	Ratio	Lower	Upper
91	100		
106	47.8	23.1	83.1
105	21.5	0.0	54.7
51	13.9	0.0	40.1

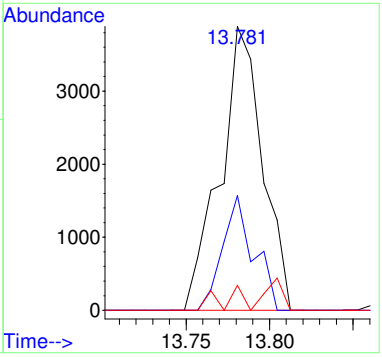


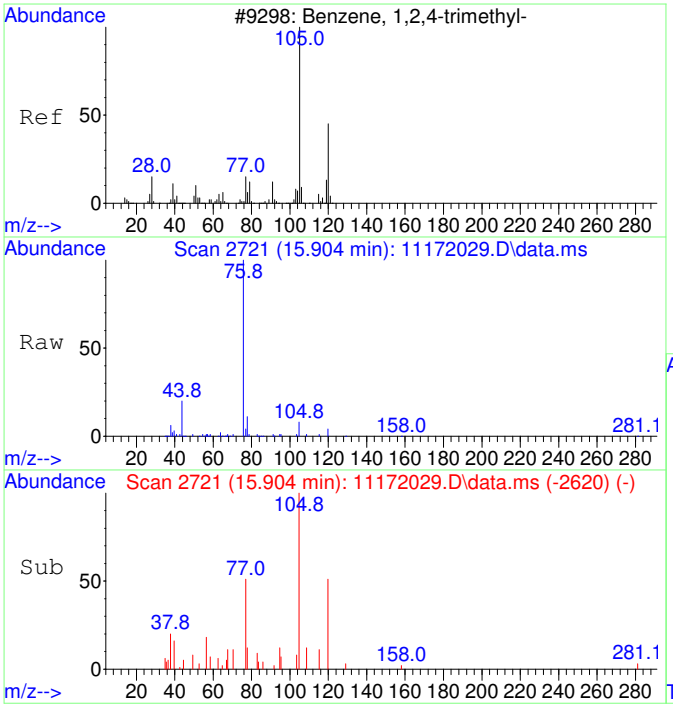


#44
o-Xylene SCAN
Concen: 103.24 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 6862

Ion	Ratio	Lower	Upper
91	100		
106	29.7	18.0	78.0
105	2.4	0.0	56.6

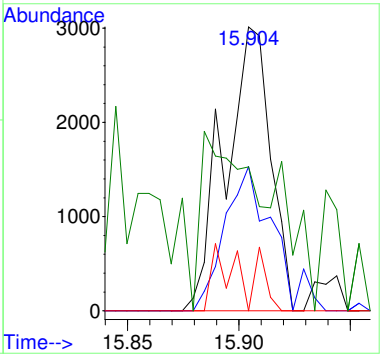




#47
1,2,4-Trimethylbenzene SCAN
Concen: 60.40 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:105 Resp: 4329

Ion	Ratio	Lower	Upper
105	100		
120	53.6	16.9	76.9
119	10.9	0.0	41.9
77	93.9	0.0	42.3#



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172029.D
Acq On : 17 Nov 2020 18:57
InstName : AG5975C
Operator : TD
Sample : 2011017-18
Misc :
ALS Vial : 29 Sample Multiplier: 1

M.I. Performed By:
TD at 9:49 am, Nov 23, 2020

M.I. Approved By:
ZR at 3:46 pm, Nov 23, 2020

Quant Time: Nov 18 06:17:14 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

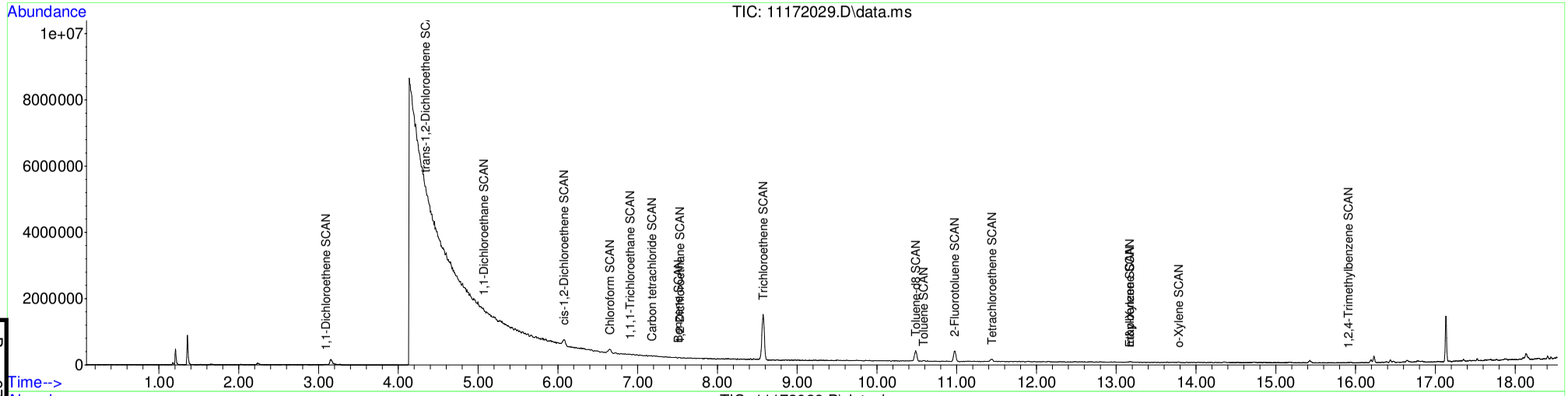
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	558246	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	485640	4443.89 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.88%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	11056m	495.97 ug/L	
3] trans-1,2-Dichloroethene	4.349	61	14422	559.97 ug/L	97
4] 1,1-Dichloroethane	5.072	63	14632	456.39 ug/L	94
5] cis-1,2-Dichloroethene	6.081	61	279671	8264.09 ug/L	99
6] Chloroform	6.652	83	178661	5157.90 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	10449	277.77 ug/L	100
8] Carbon tetrachloride	7.175	117	4162	117.55 ug/L	99
9] Benzene	7.503	78	18329	193.24 ug/L	78
10] 1,2-Dichloroethane	7.540	62	1200	35.44 ug/L #	23
11] Trichloroethene	8.575	130	1014501	35524.45 ug/L oc	94
13] Toluene	10.582	91	37718	270.72 ug/L	98
14] 1,1,2-Trichloroethane	11.169	97	973	32.05 ug/L #	17
15] Tetrachloroethene	11.432	166	47908	1188.18 ug/L	99
18] Ethylbenzene	12.972	91	11439	67.45 ug/L	96
19] m&p-Xylene	13.162	91	23047	173.88 ug/L	95
20] o-Xylene	13.782	91	9518	67.21 ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	9351	59.73 ug/L	93
25) 2-Fluorotoluene SCAN	10.969	109	270729	4974.93 ug/L	96
26) 1,1-Dichloroethene SCAN	3.088	61	5614	485.77 ug/L #	73
27) trans-1,2-Dichloroethe...	4.341	61	8397	587.17 ug/L #	75
28) 1,1-Dichloroethane SCAN	5.071	63	6602	398.90 ug/L	76
29) cis-1,2-Dichloroethene...	6.080	61	151885	8565.44 ug/L #	85
30) Chloroform SCAN	6.650	83	87673	4558.43 ug/L	88
31) 1,1,1-Trichloroethane ...	6.906	97	4988	284.59 ug/L #	45
32) Carbon tetrachloride SCAN	7.173	117	2297	125.64 ug/L #	22
33) Benzene SCAN	7.514	78	21337	442.15 ug/L	99
34) 1,2-Dichloroethane SCAN	7.526	62	612	34.34 ug/L #	40
35) Trichloroethene SCAN	8.573	130	480129	36204.48 ug/L	88
36) Toluene-d8 SCAN	10.486	98	234594	4408.02 ug/L	100
37) Toluene SCAN	10.580	91	20314	298.05 ug/L	94
39) Tetrachloroethene SCAN	11.441	166	21200	1294.72 ug/L	92
42) Ethylbenzene SCAN	13.169	91	12481	100.52 ug/L	92
43) m&p-Xylene SCAN	13.169	91	12481	100.52 ug/L	92
44) o-Xylene SCAN	13.781	91	6862	103.24 ug/L	66
47) 1,2,4-Trimethylbenzene...	15.904	105	4329	60.40 ug/L #	57

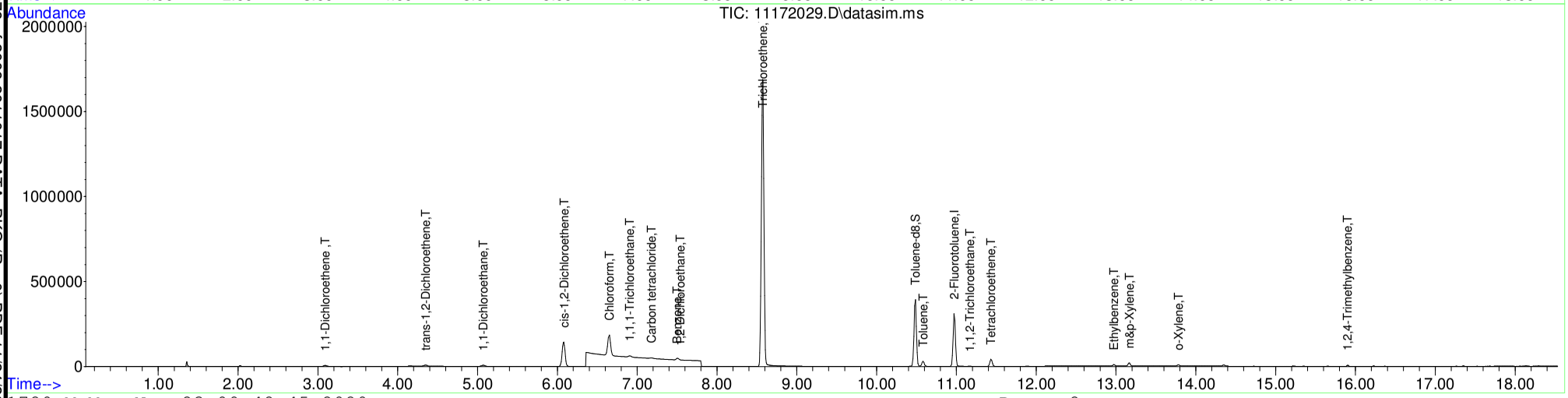
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172029.D
Acq On : 17 Nov 2020 18:57
InstName : AG5975C
Operator : TD
Sample : 2011017-18
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 18 06:17:14 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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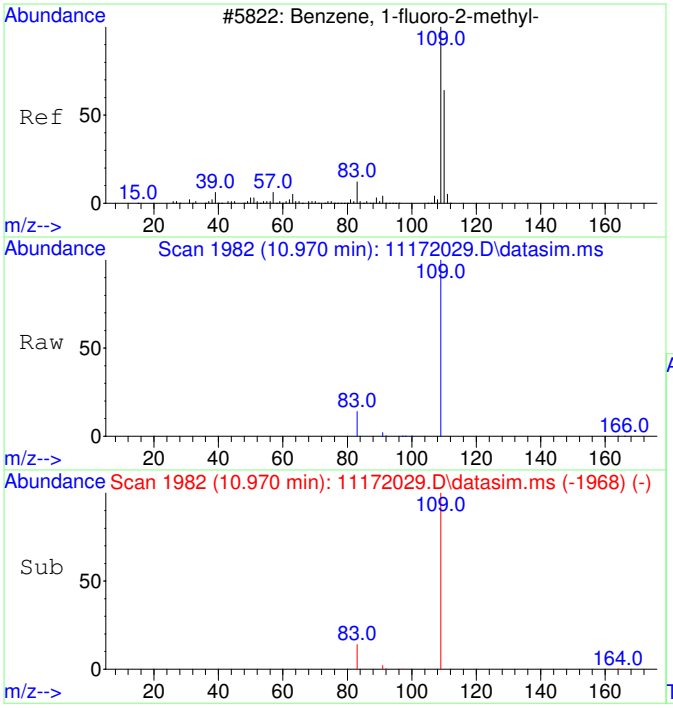
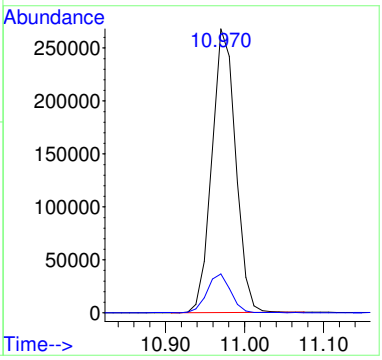
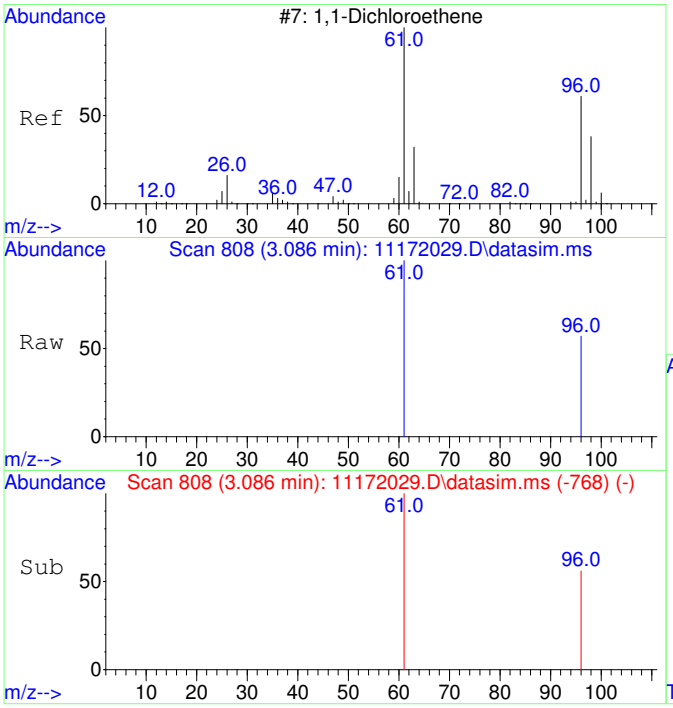


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:109 Resp: 558246

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

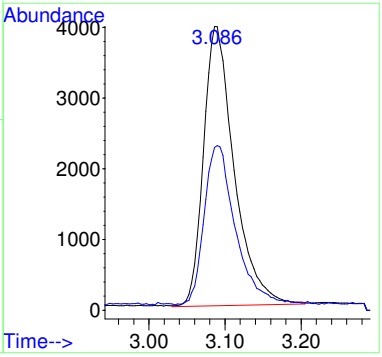


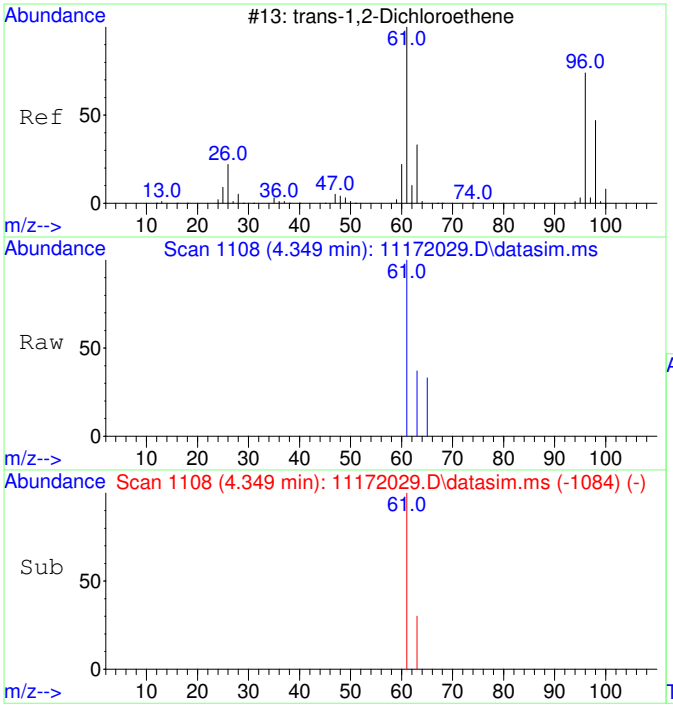


#2
1,1-Dichloroethene
Concen: 495.97 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. 0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 61 Resp: 11056

Ion	Ratio	Lower	Upper
61	100		
96	58.2	37.2	97.2

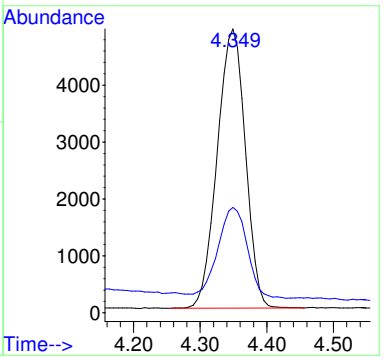


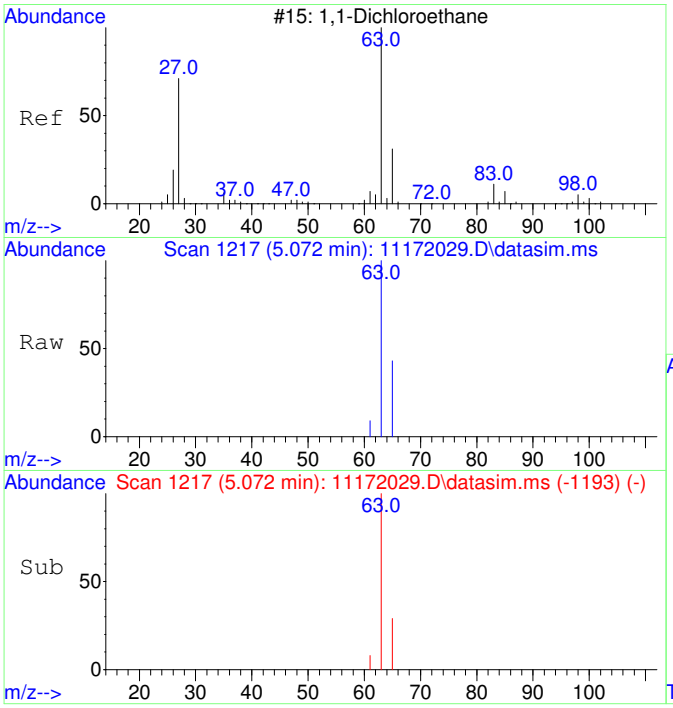


#3
trans-1,2-Dichloroethene
Concen: 559.97 ug/L
RT: 4.349 min Scan# 1108
Delta R.T. 0.007 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 61 Resp: 14422

Ion	Ratio	Lower	Upper
61	100		
63	34.3	2.4	62.4

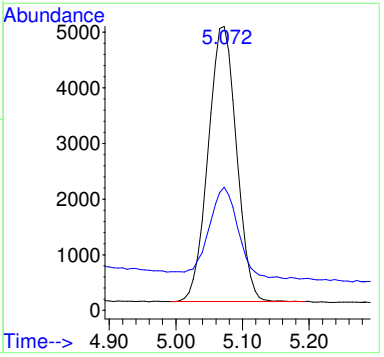


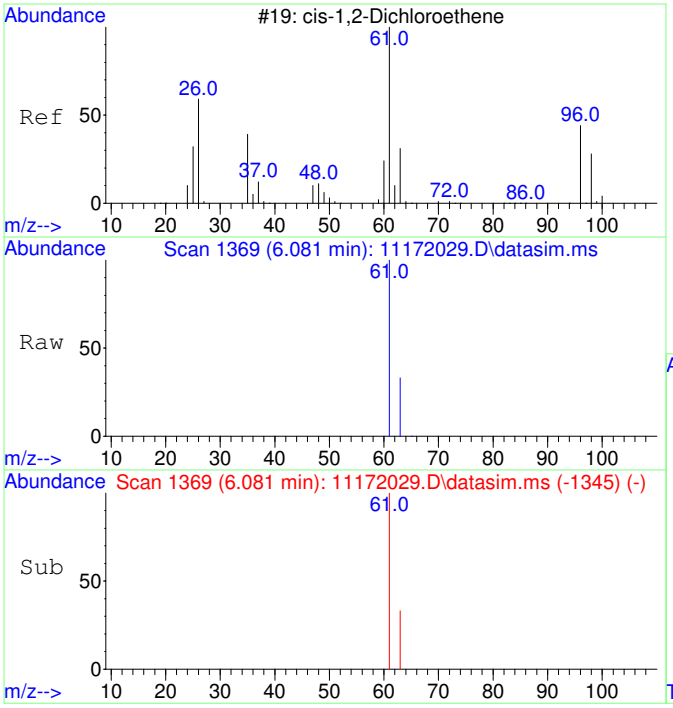


#4
1,1-Dichloroethane
Concen: 456.39 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 63 Resp: 14632

Ion	Ratio	Lower	Upper
63	100		
65	35.1	1.8	61.8

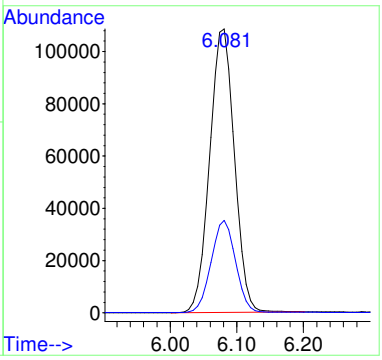


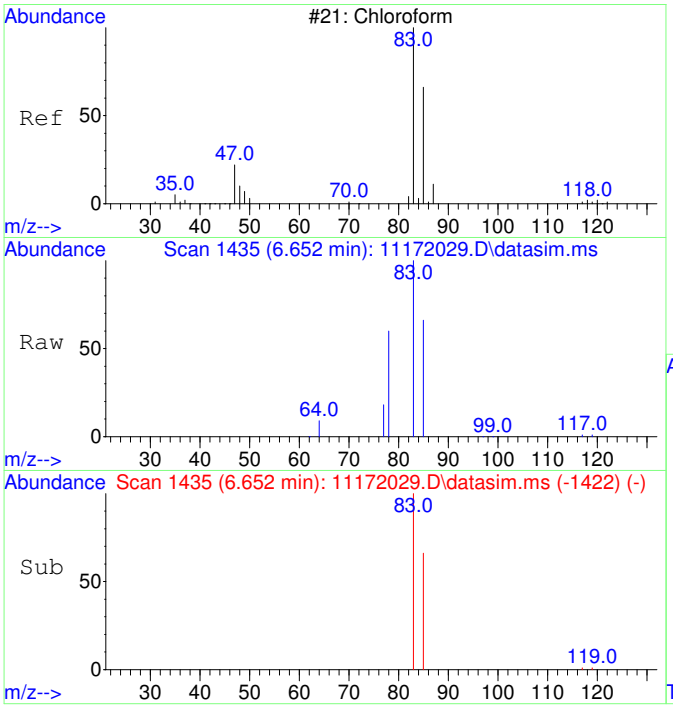


#5
cis-1,2-Dichloroethene
Concen: 8264.09 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 61 Resp: 279671

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

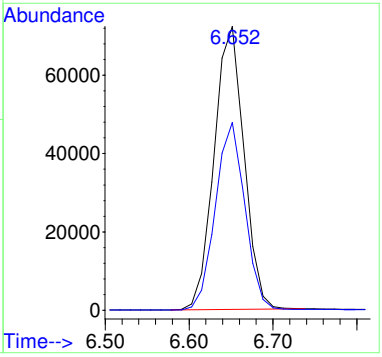


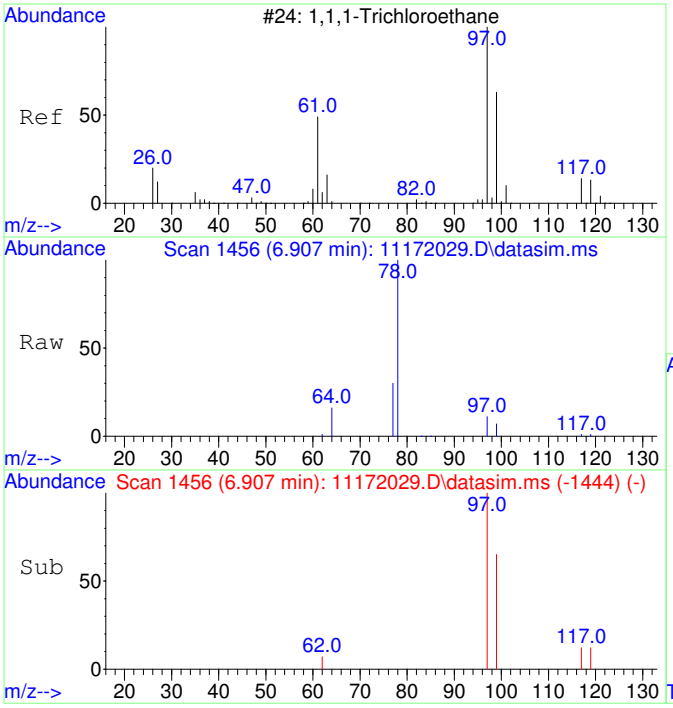


#6
Chloroform
Concen: 5157.90 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 83 Resp: 178661

Ion	Ratio	Lower	Upper
83	100		
85	64.9	35.1	95.1

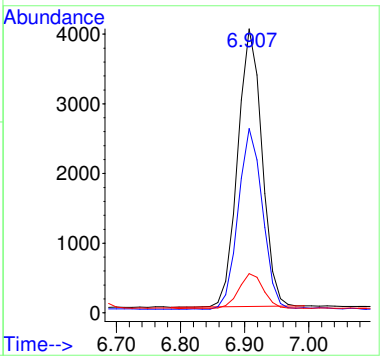


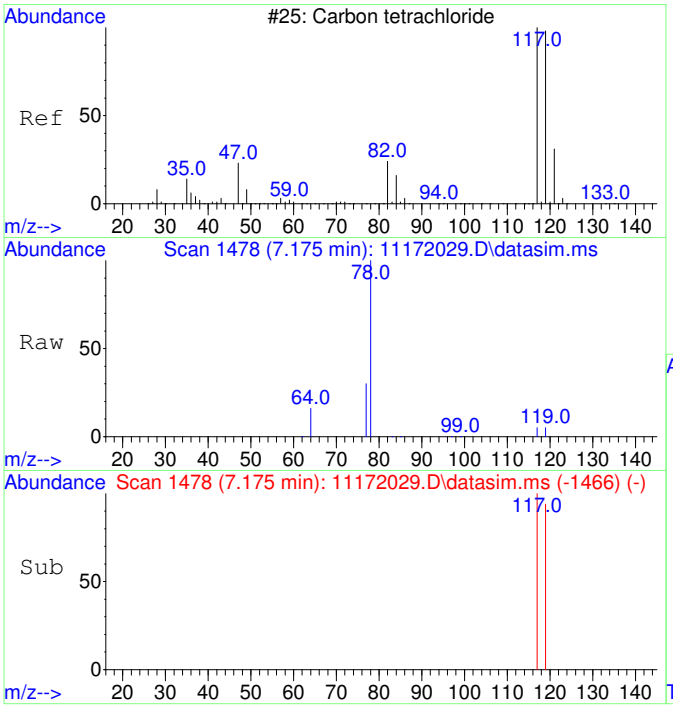


#7
1,1,1-Trichloroethane
Concen: 277.77 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 97 Resp: 10449

Ion	Ratio	Lower	Upper
97	100		
99	64.6	34.6	94.6
117	12.7	0.0	43.2

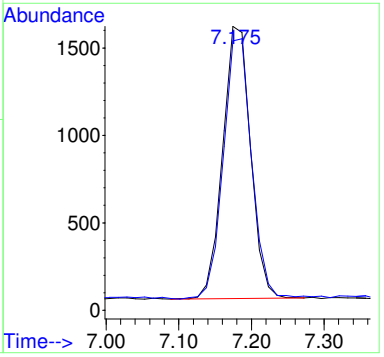


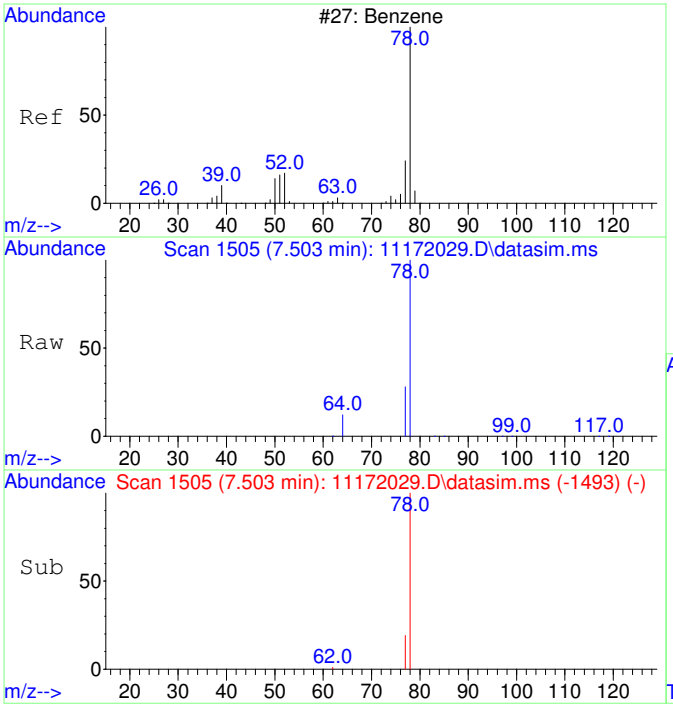


#8
Carbon tetrachloride
Concen: 117.55 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:117 Resp: 4162

Ion	Ratio	Lower	Upper
117	100		
119	95.8	66.4	126.4

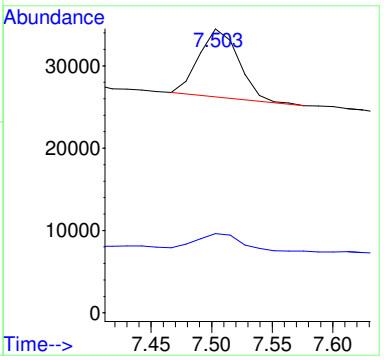


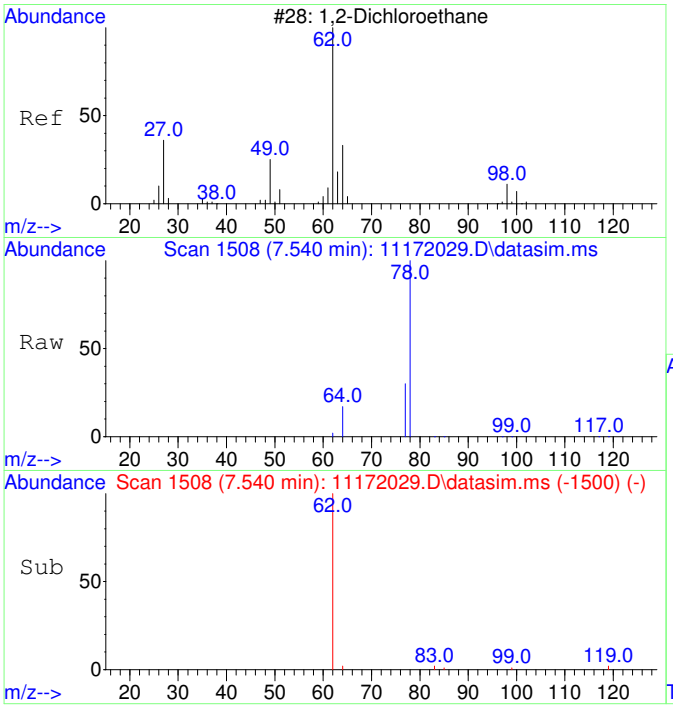


#9
Benzene
Concen: 193.24 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 78 Resp: 18329

Ion	Ratio	Lower	Upper
78	100		
77	34.0	0.0	53.2

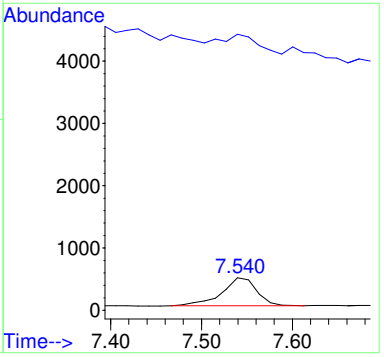


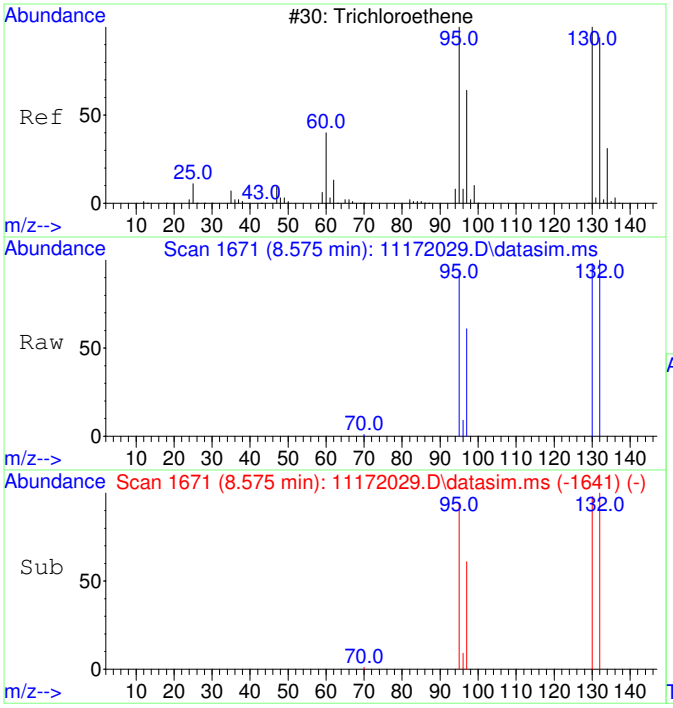


#10
1,2-Dichloroethane
Concen: 35.44 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 62 Resp: 1200

Ion	Ratio	Lower	Upper
62	100		
64	75.7	2.3	62.3#

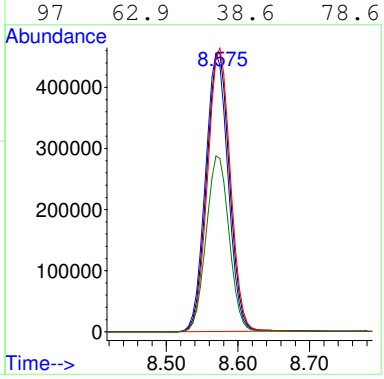


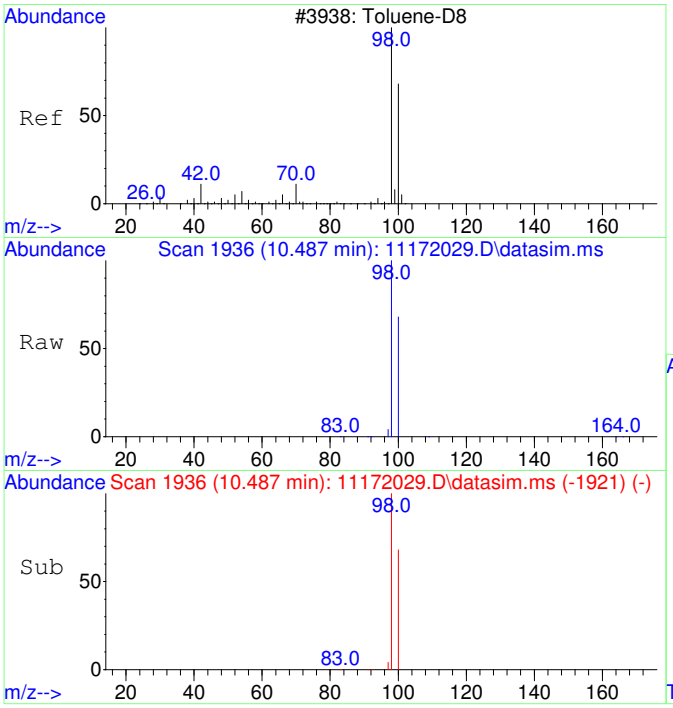


#11
Trichloroethene
Concen: 35524.45 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:130 Resp: 1014501

Ion	Ratio	Lower	Upper
130	100		
95	98.5	60.7	120.7
132	100.4	76.0	116.0
97	62.9	38.6	78.6

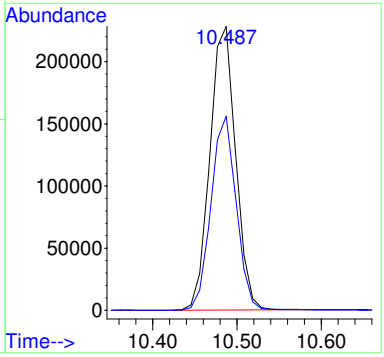


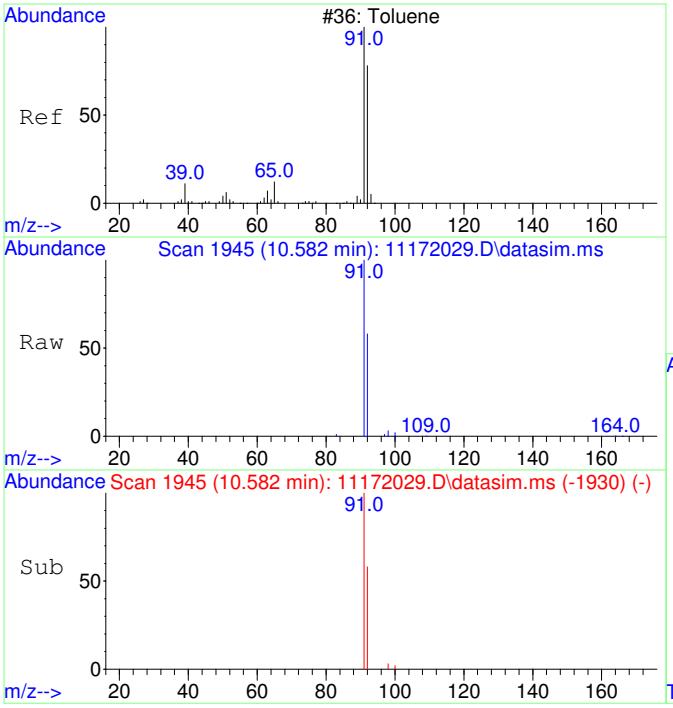


#12
Toluene-d8
Concen: 4443.89 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 98 Resp: 485640

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

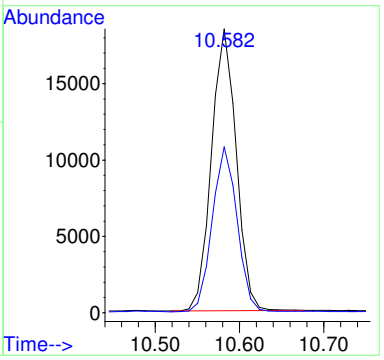


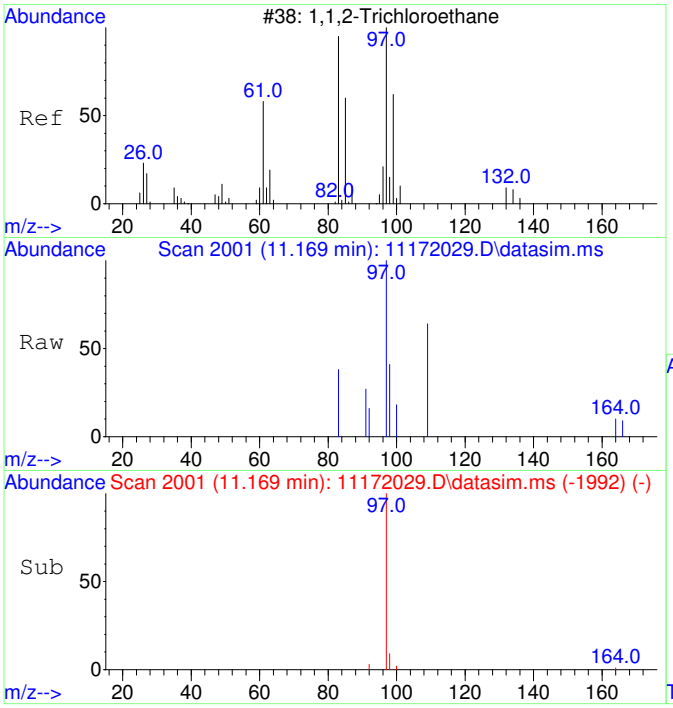


#13
Toluene
Concen: 270.72 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 37718

Ion	Ratio	Lower	Upper
91	100		
92	58.3	29.9	89.9

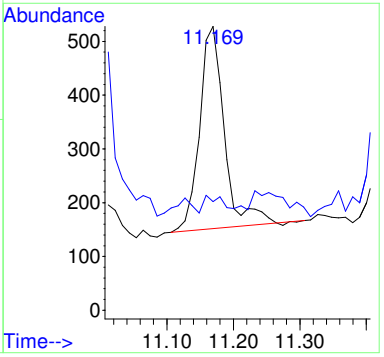


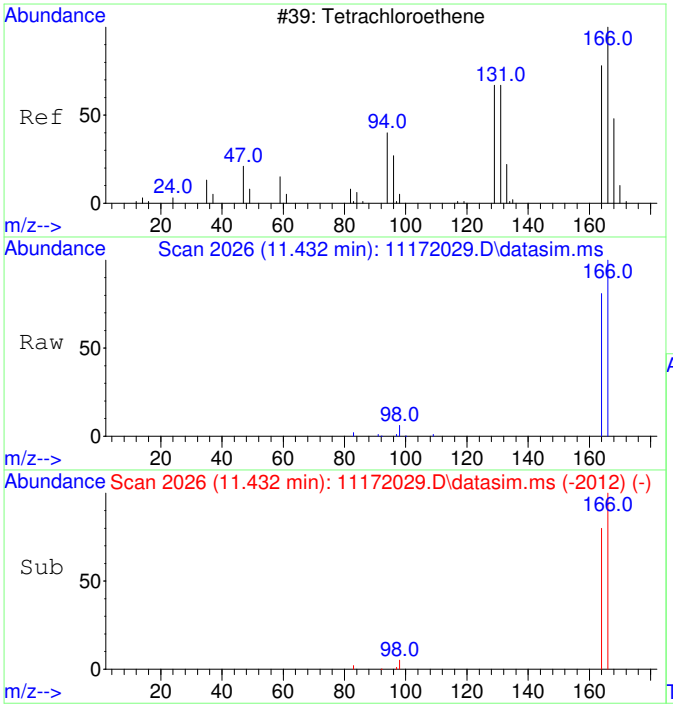


#14
1,1,2-Trichloroethane
Concen: 32.05 ug/L
RT: 11.169 min Scan# 2001
Delta R.T. -0.053 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 97 Resp: 973

Ion	Ratio	Lower	Upper
97	100		
83	7.4	51.2	111.2#

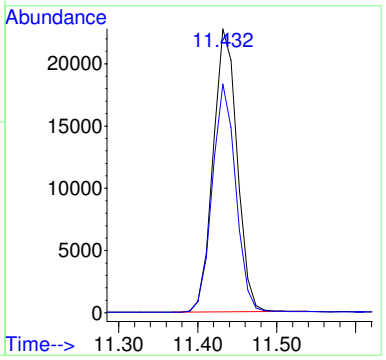


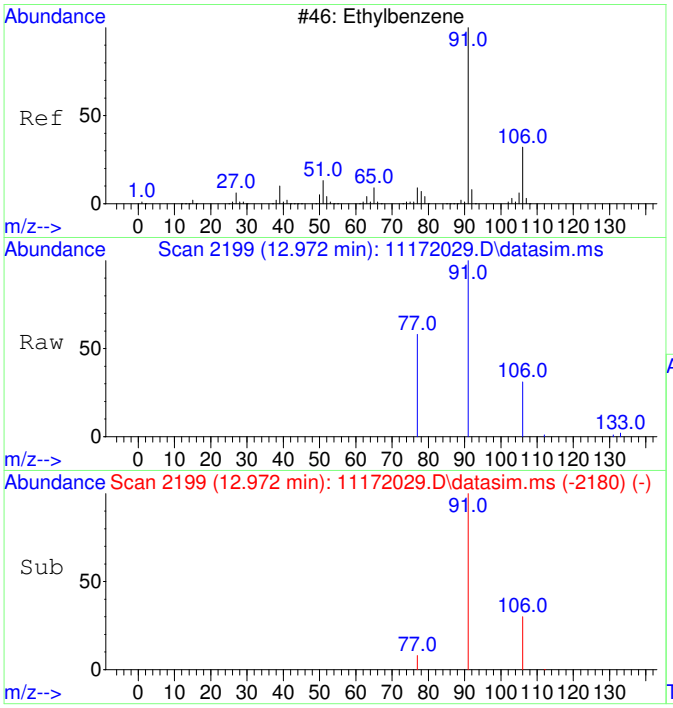


#15
Tetrachloroethene
Concen: 1188.18 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:166 Resp: 47908

Ion	Ratio	Lower	Upper
166	100		
164	78.4	47.8	107.8

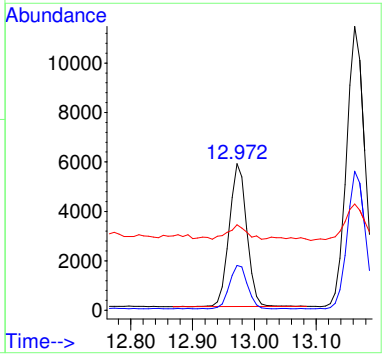


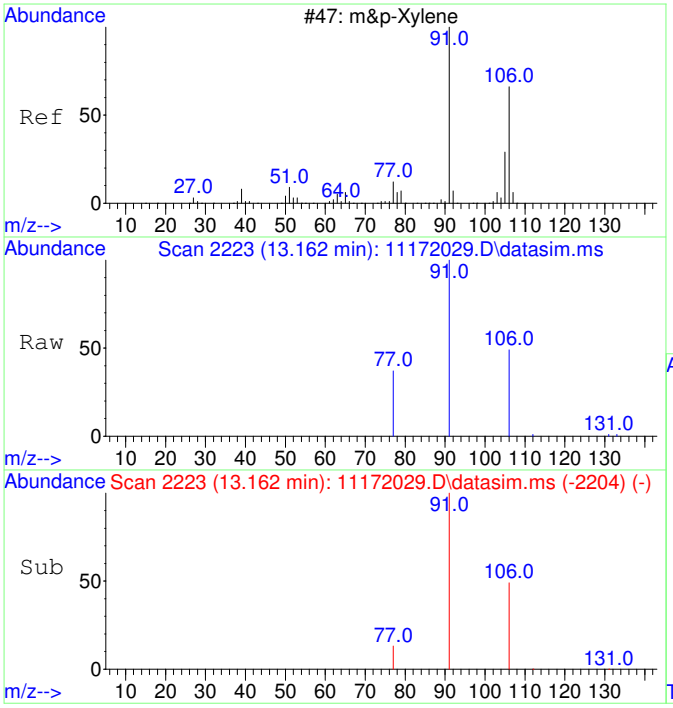


#18
Ethylbenzene
Concen: 67.45 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 11439

Ion	Ratio	Lower	Upper
91	100		
106	31.3	3.0	63.0
77	11.0	0.0	38.2

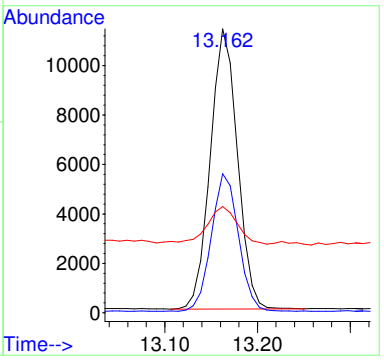


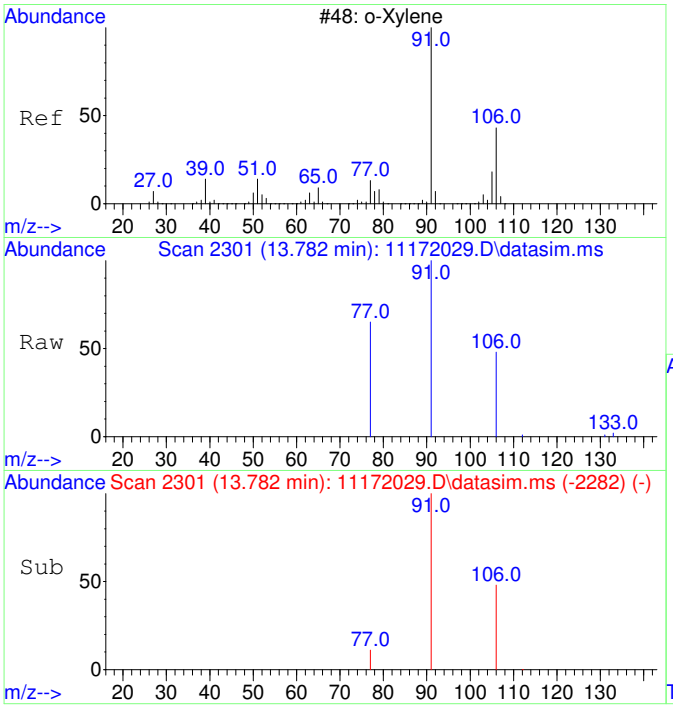


#19
m&p-Xylene
Concen: 173.88 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 23047

Ion	Ratio	Lower	Upper
91	100		
106	49.2	22.2	82.2
77	15.5	0.0	42.4

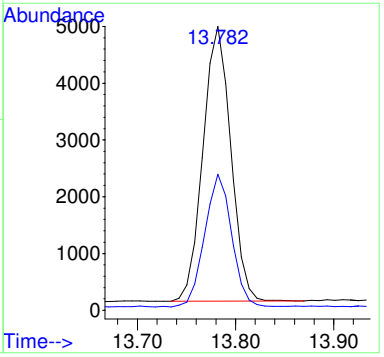


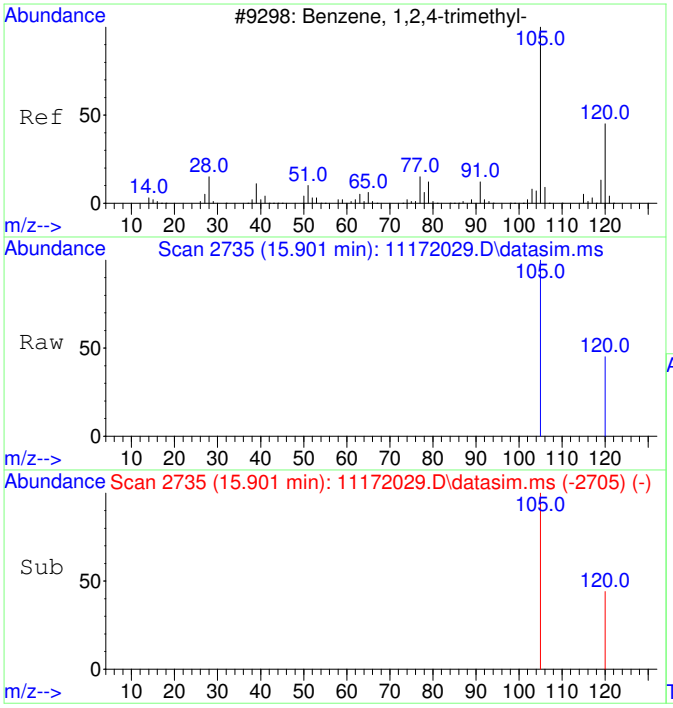


#20
o-Xylene
Concen: 67.21 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 9518

Ion	Ratio	Lower	Upper
91	100		
106	46.6	19.2	79.2

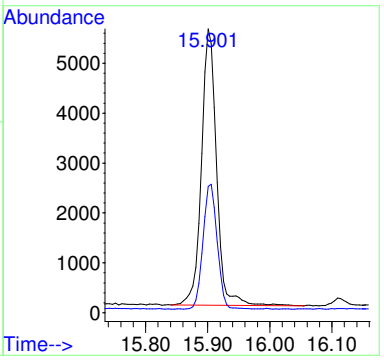


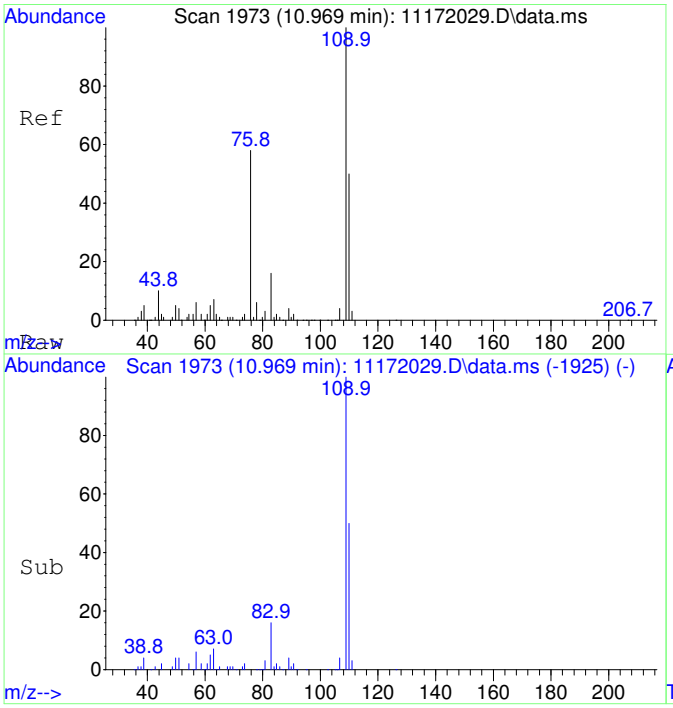


#23
1,2,4-Trimethylbenzene
Concen: 59.73 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:105 Resp: 9351

Ion	Ratio	Lower	Upper
105	100		
120	42.4	17.2	77.2

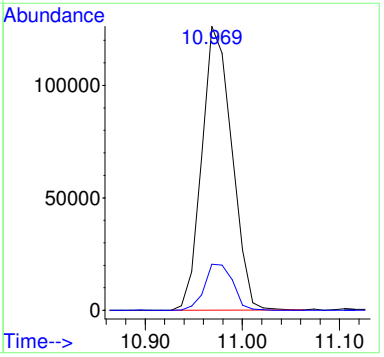


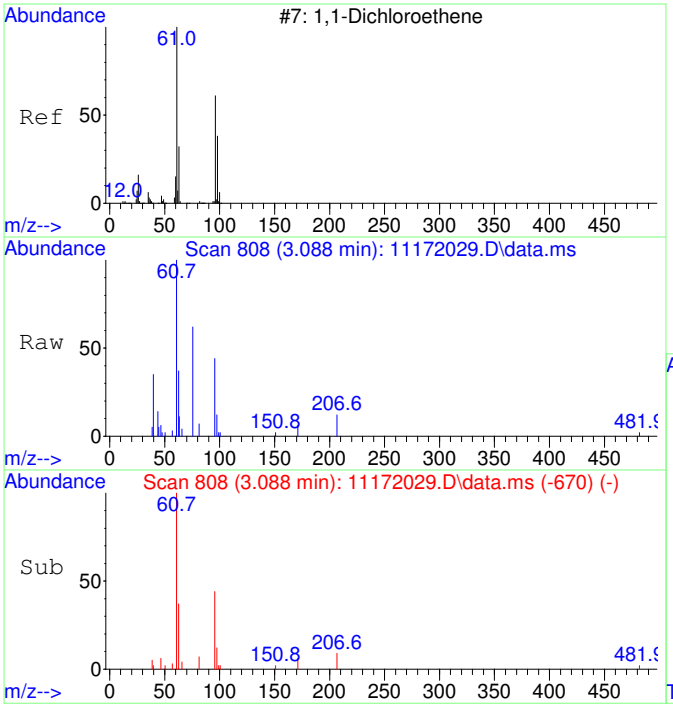


#25
2-Fluorotoluene SCAN
Concen: 4974.93 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:109 Resp: 270729

Ion	Ratio	Lower	Upper
109	100		
83	15.4	0.0	43.8

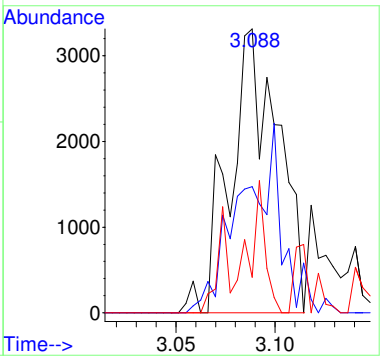


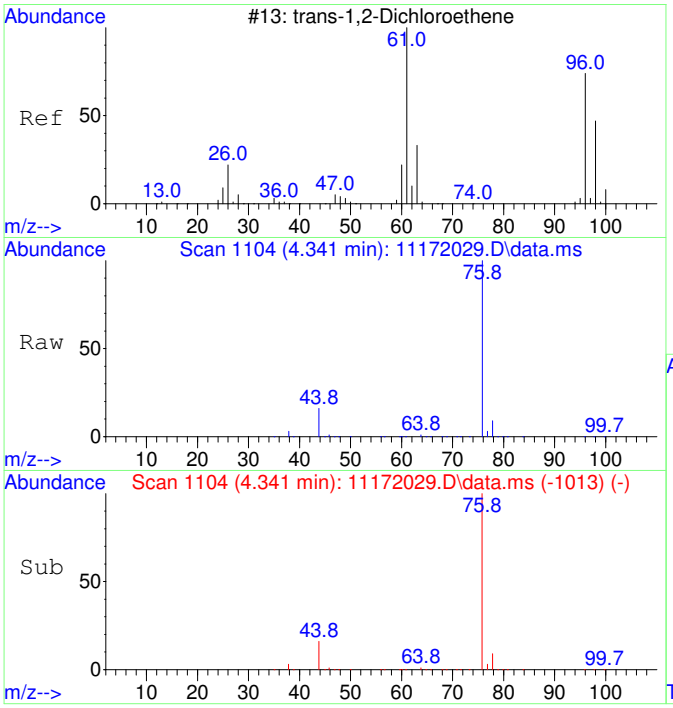


#26
1,1-Dichloroethene SCAN
Concen: 485.77 ug/L
RT: 3.088 min Scan# 808
Delta R.T. 0.011 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 61 Resp: 5614

Ion	Ratio	Lower	Upper
61	100		
96	54.8	33.1	93.1
98	9.4	11.2	71.2#

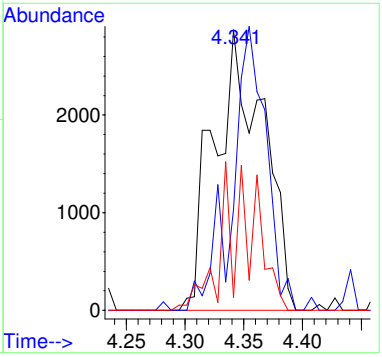


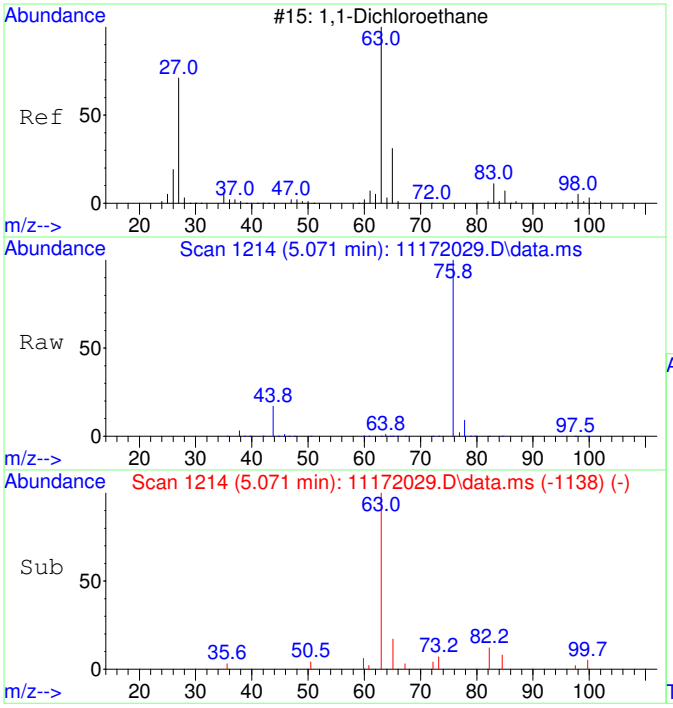


#27
trans-1,2-Dichloroethene SCAN
Concen: 587.17 ug/L
RT: 4.341 min Scan# 1104
Delta R.T. -0.007 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 61 Resp: 8397

Ion	Ratio	Lower	Upper
61	100		
96	69.2	49.0	109.0
98	17.6	20.5	80.5#

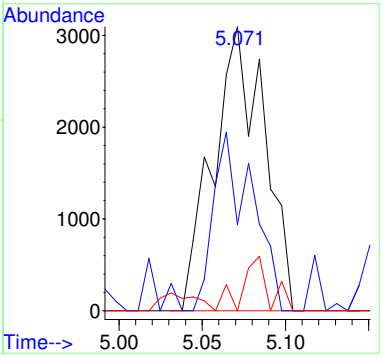


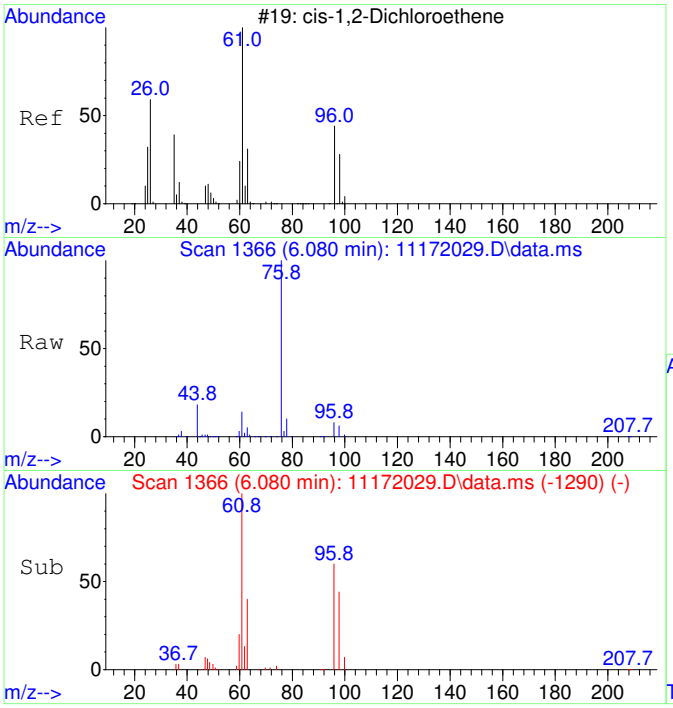


#28
1,1-Dichloroethane SCAN
Concen: 398.90 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 63 Resp: 6602

Ion	Ratio	Lower	Upper
63	100		
65	47.4	1.3	61.3
83	10.0	0.0	45.9

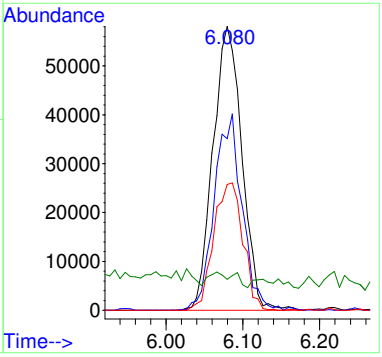


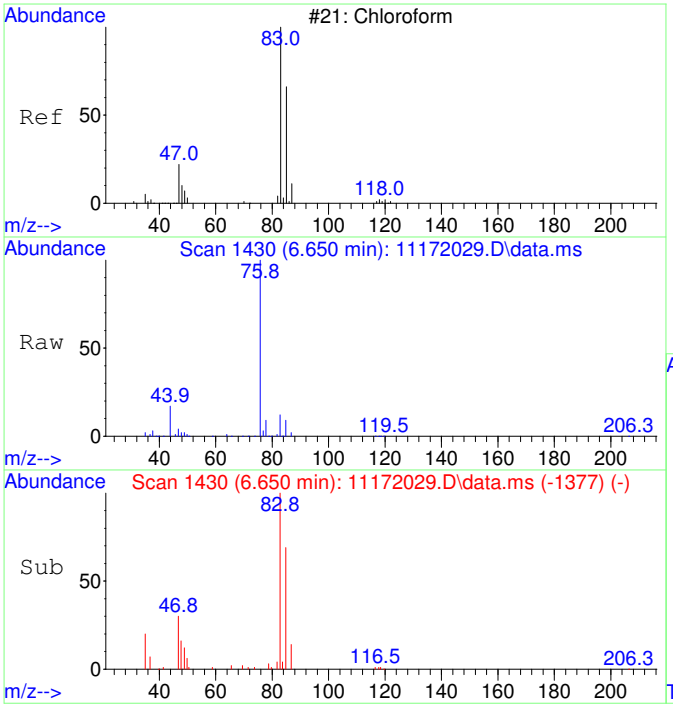


#29
cis-1,2-Dichloroethene SCAN
Concen: 8565.44 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.007 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 61 Resp: 151885

Ion	Ratio	Lower	Upper
61	100		
96	66.0	39.9	99.9
98	45.4	13.5	73.5
64	4.4	4.5	64.5#

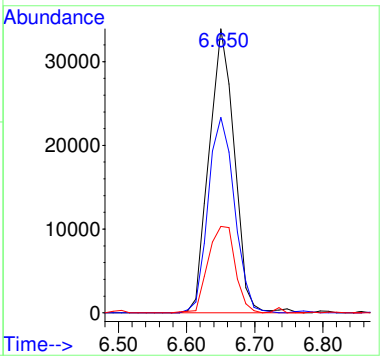


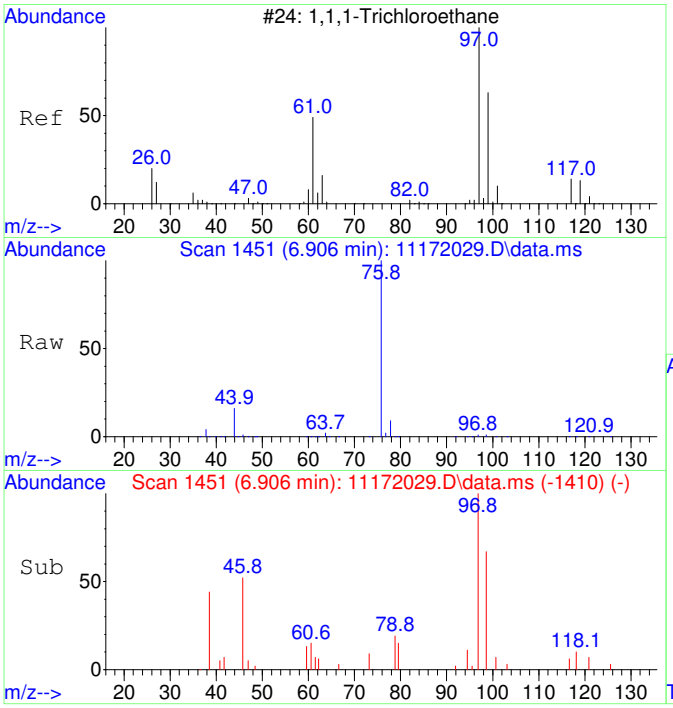


#30
Chloroform SCAN
Concen: 4558.43 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 83 Resp: 87673

Ion	Ratio	Lower	Upper
83	100		
85	71.8	34.6	94.6
47	32.7	0.0	53.4

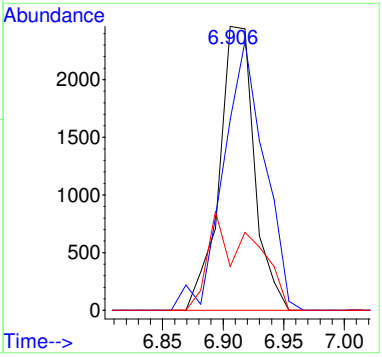


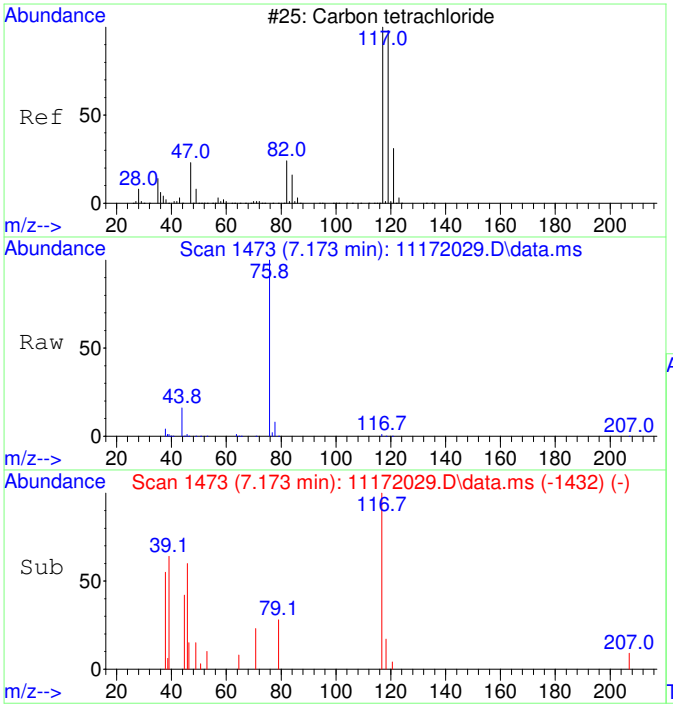


#31
1,1,1-Trichloroethane SCAN
Concen: 284.59 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 97 Resp: 4988

Ion	Ratio	Lower	Upper
97	100		
99	110.8	43.6	103.6#
61	0.0	18.0	78.0#

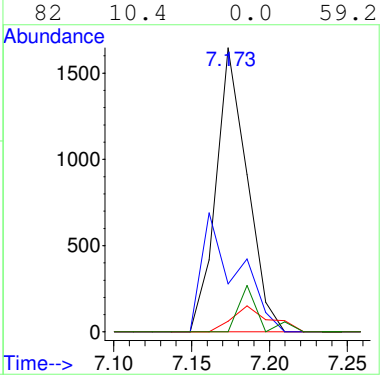


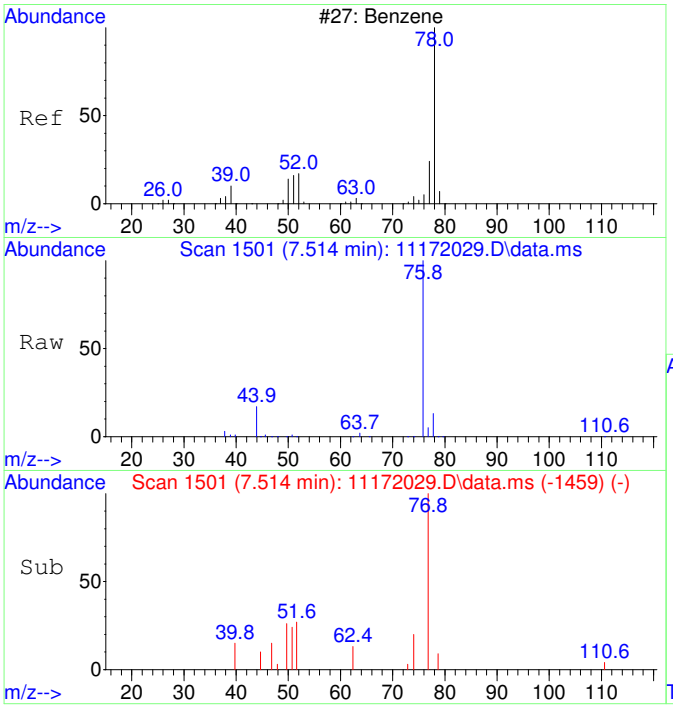


#32
Carbon tetrachloride SCAN
Concen: 125.64 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:117 Resp: 2297

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	11.1	0.0	58.8
82	10.4	0.0	59.2

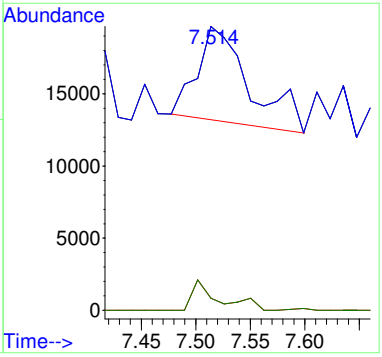


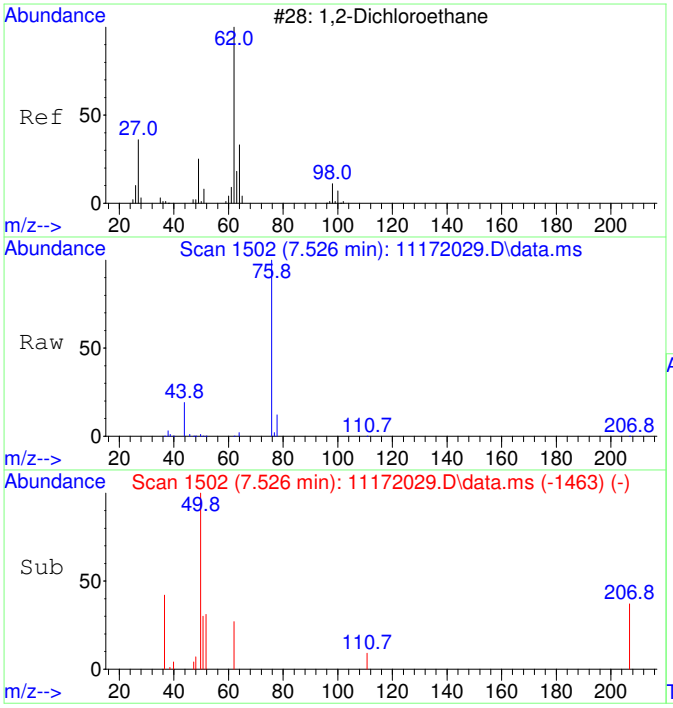


#33
Benzene SCAN
Concen: 442.15 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 78 Resp: 21337

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	16.4	0.0	47.9
51	16.4	0.0	44.1

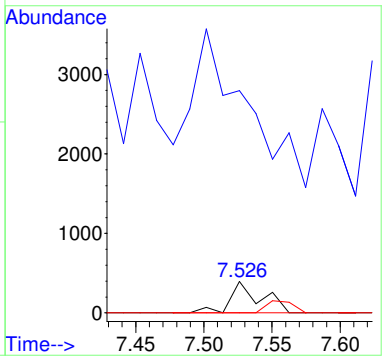


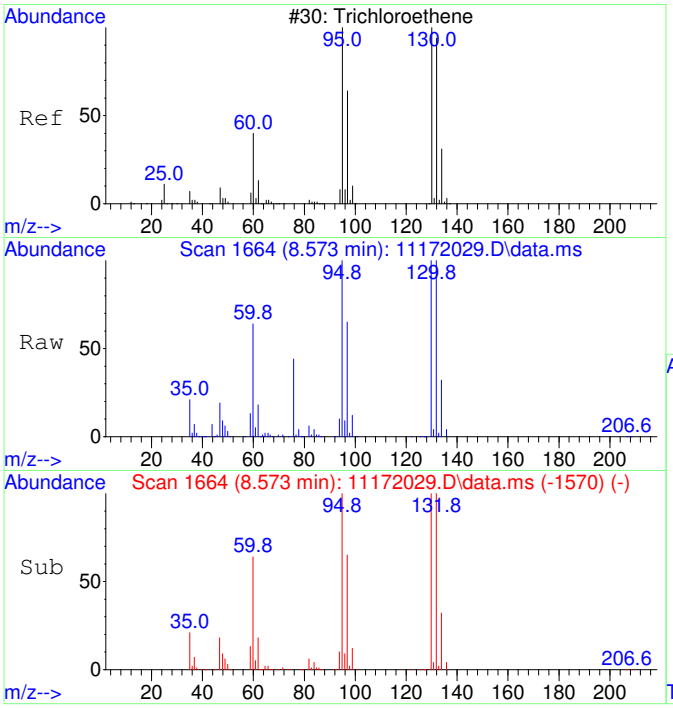


#34
1,2-Dichloroethane SCAN
Concen: 34.34 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. -0.024 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 62 Resp: 612

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	0.0	3.9	63.9#

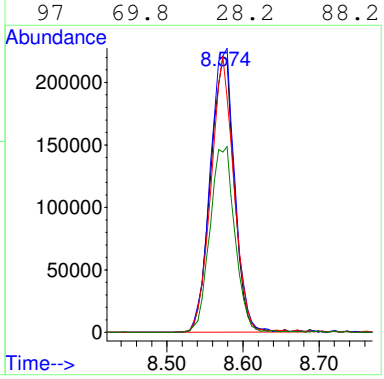


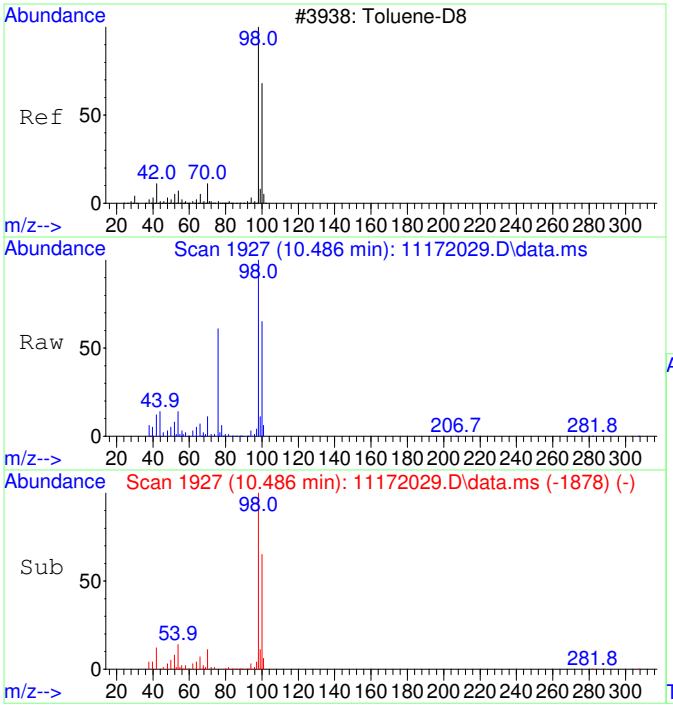


#35
Trichloroethene SCAN
Concen: 36204.48 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:130 Resp: 480129

Ion	Ratio	Lower	Upper
130	100		
95	104.7	60.5	120.5
132	94.9	59.6	119.6
97	69.8	28.2	88.2

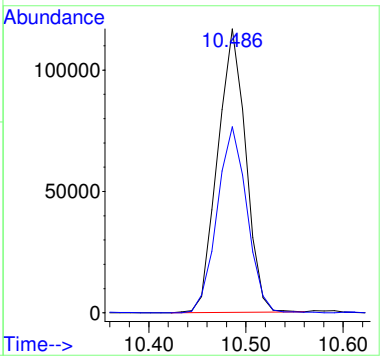


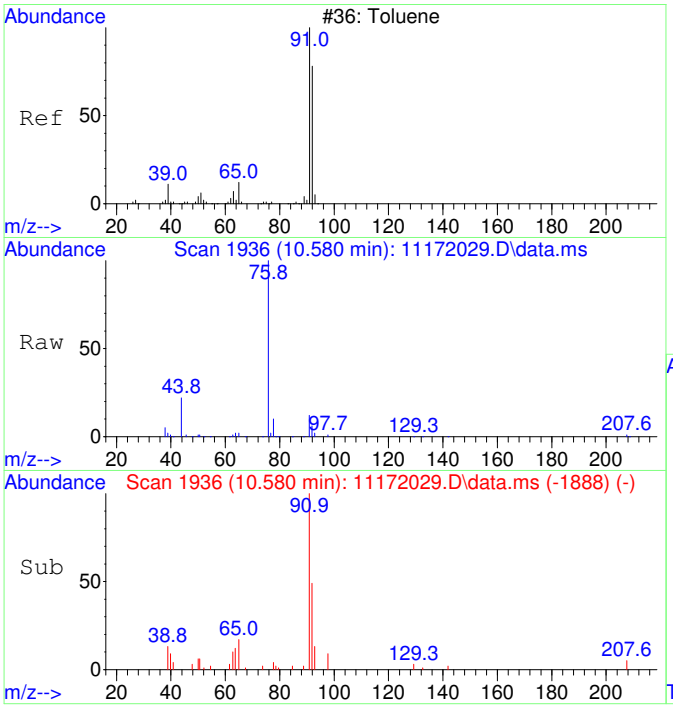


#36
Toluene-d8 SCAN
Concen: 4408.02 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 98 Resp: 234594

Ion	Ratio	Lower	Upper
98	100		
100	69.7	40.0	100.0

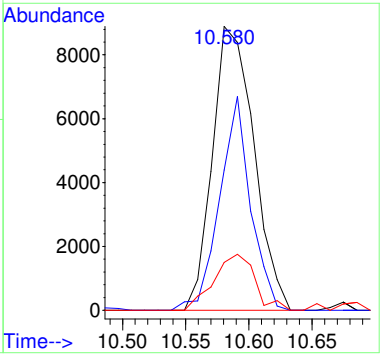


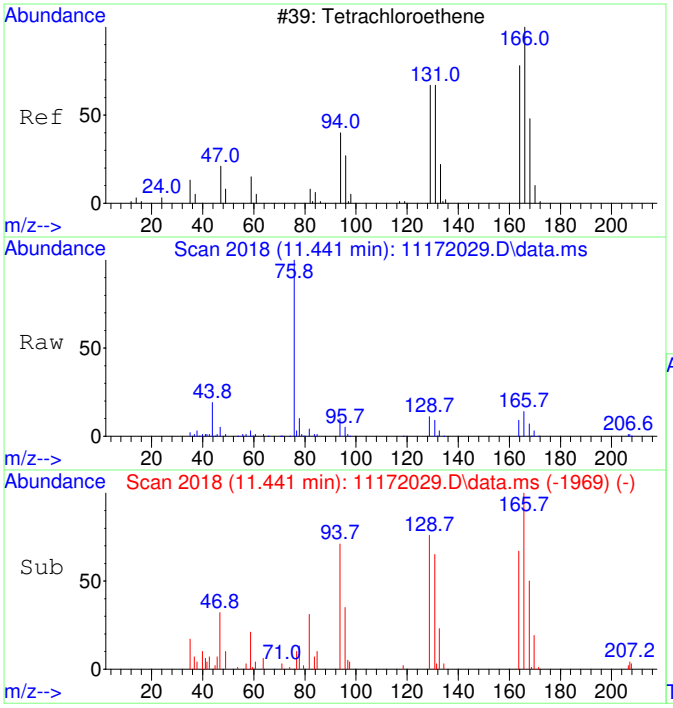


#37
Toluene SCAN
Concen: 298.05 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 20314

Ion	Ratio	Lower	Upper
91	100		
92	56.1	28.3	88.3
65	19.5	0.0	41.0

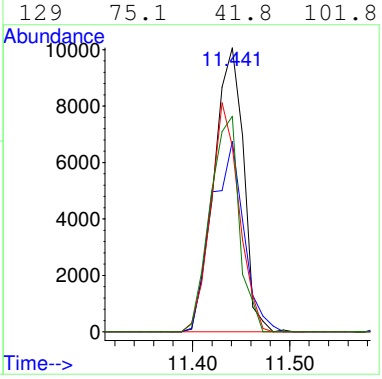


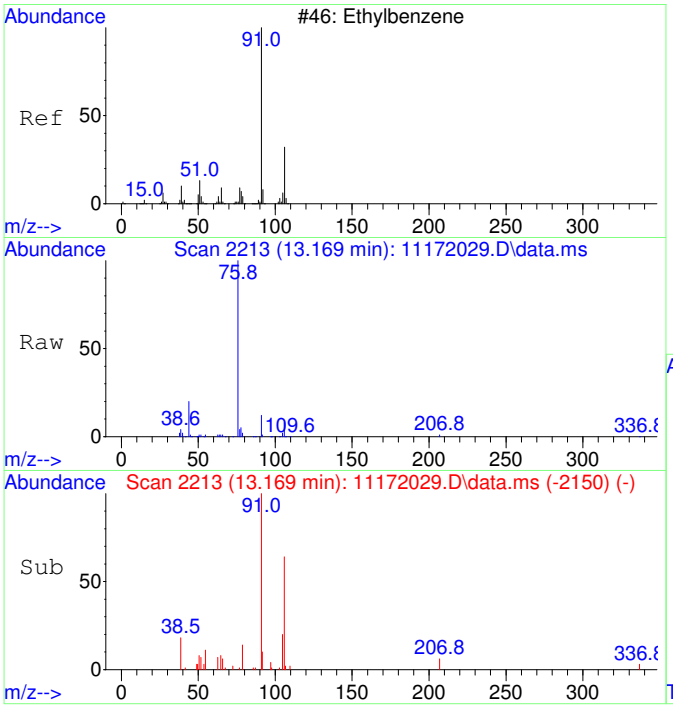


#39
Tetrachloroethene SCAN
Concen: 1294.72 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:166 Resp: 21200

Ion	Ratio	Lower	Upper
166	100		
164	73.4	50.9	110.9
131	77.5	38.7	98.7
129	75.1	41.8	101.8

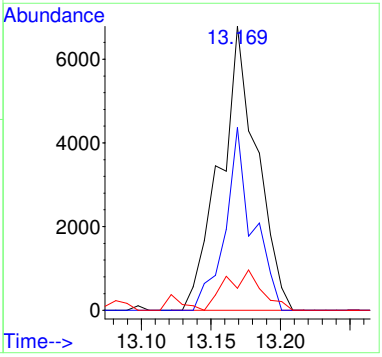


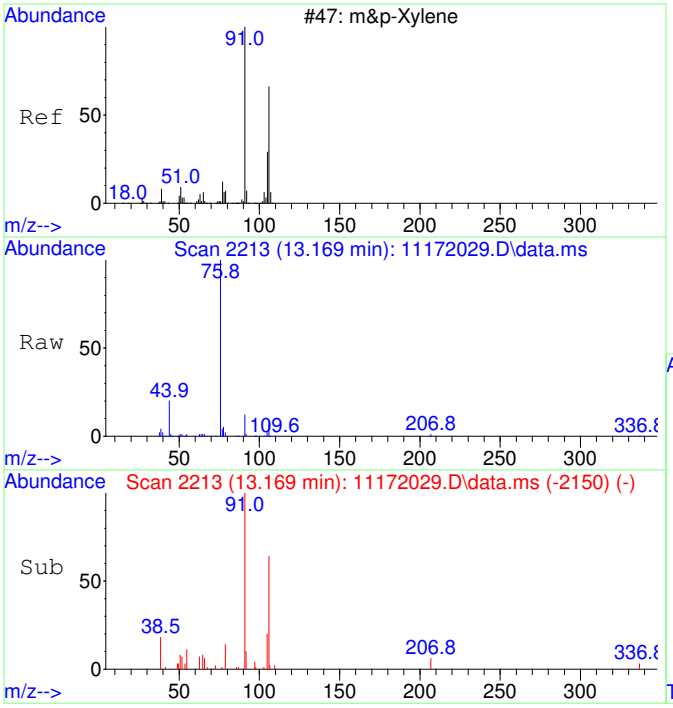


#42
Ethylbenzene SCAN
Concen: 100.52 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 12481

Ion	Ratio	Lower	Upper
91	100		
106	47.8	23.1	83.1
51	13.9	0.0	40.1

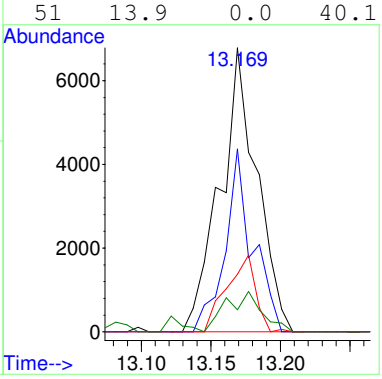


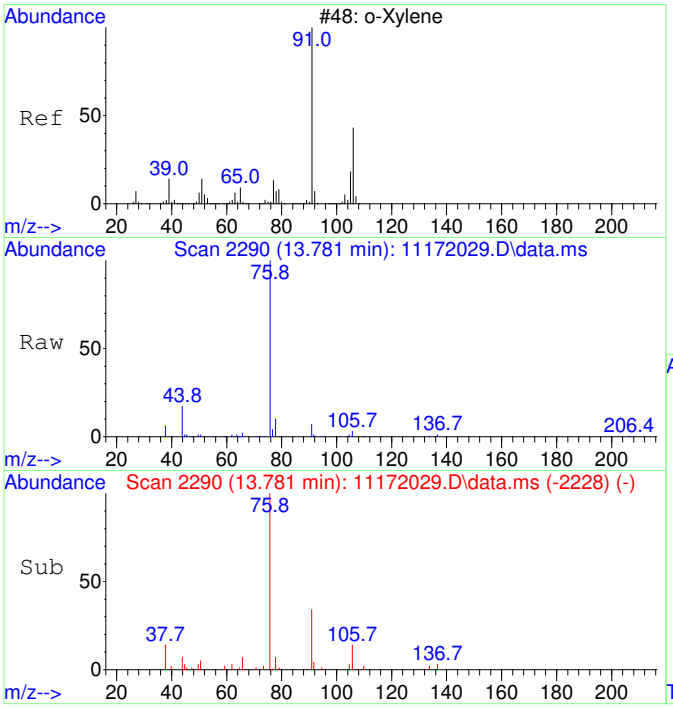


#43
m&p-Xylene SCAN
Concen: 100.52 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 12481

Ion	Ratio	Lower	Upper
91	100		
106	47.8	23.1	83.1
105	21.5	0.0	54.7
51	13.9	0.0	40.1

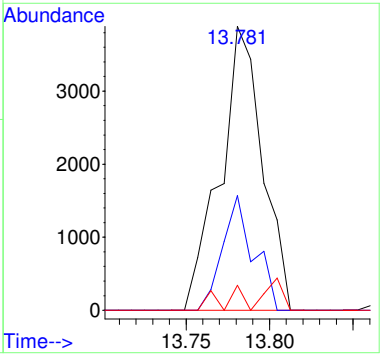


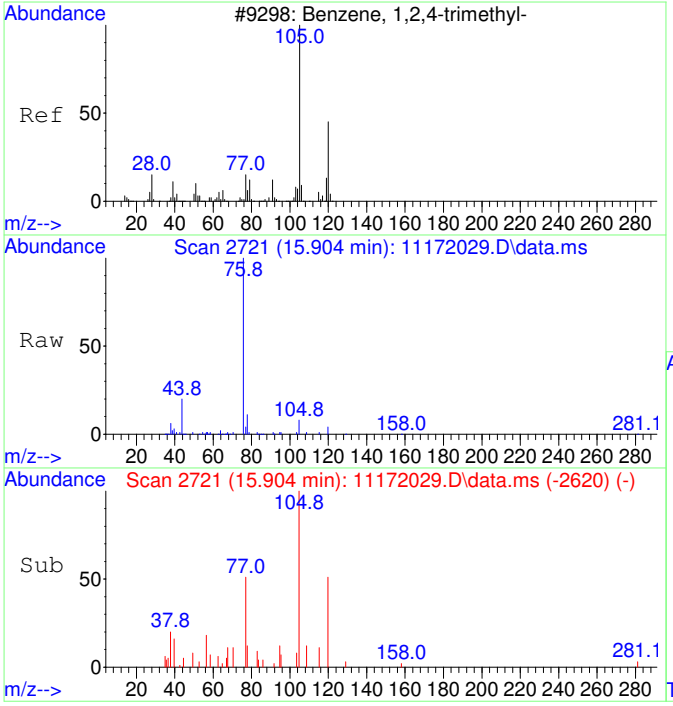


#44
o-Xylene SCAN
Concen: 103.24 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion: 91 Resp: 6862

Ion	Ratio	Lower	Upper
91	100		
106	29.7	18.0	78.0
105	2.4	0.0	56.6

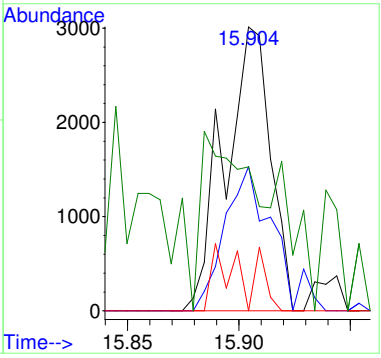




#47
1,2,4-Trimethylbenzene SCAN
Concen: 60.40 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172029.D
Acq: 17 Nov 2020 18:57

Tgt Ion:105 Resp: 4329

Ion	Ratio	Lower	Upper
105	100		
120	53.6	16.9	76.9
119	10.9	0.0	41.9
77	93.9	0.0	42.3#



SEQUENCE

S20K077

Sequence Date: 11/18/2020

Instrument: AG5975CV

Sequence Analyses:

VOCs, Passive Samplers

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B20K062	SEQUENCE #:	S20K077 11/18/20
BATCH #:		ANALYSIS:	VOA Passive Air. R21S04

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
DOCUMENTATION	ANALYST: Bench sheet(s) attached? REVIEWER: Bench sheet(s) reviewed?	☐	Y	Y	
	ANALYST: Sequence log(s) attached? REVIEWER: Sequence log(s) reviewed?	☐	Y	Y	
	ANALYST: Every run has a PDF in LIMS? REVIEWER: Every PDF reviewed?	☐	Y	Y	
INITIAL CALIBRATION	Date of Initial Calibration used: If applicable, note date of "Last Update" in Comments.	Mon Nov 16 10:20:51 2020			RT UPDATED ONLY
	Initial Calibration ID (LIMS number):	2008017			
	ICAL within QC criteria?	✔			
	SCV within QC criteria?	✔			
INSTRUMENT / QC CHECKS	Tune or degradation checks within QC criteria?	☐	Y	Y	
	CCV(s) within QC criteria?	☐	Y	Y	
	QLS(s) within QC criteria?	☐	Y	Y	
	CB(s) or storage blank(s) within QC criteria?	✔			
	Other instrument checks within QC criteria? Specify if applicable.	✔			
BATCH QCs	Method blanks < 1/2 QL?	✔			
	LCS(s) or SRM(s) within QC criteria?	✔			
	MSs/MSDs and/or DUPs within QC criteria?	✔			
	Other method-specific QCs within QC criteria? Specify if applicable.	✔			

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B20K062	SEQUENCE #:	S20K077 11/18/20
BATCH #:		ANALYSIS:	VOA Passive Air. R21S04

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
IS / SS	Internal standards within QC criteria?	☐	Y	Y	
	Surrogates within QC criteria?	☑			
SAMPLE DATA	Were samples prepared & analyzed within holding time?	☐	Y	Y	
	If samples need to be re-run, were RE(s) made in LIMS?	☐	Y	Y	
	Do any samples need to be re-digested or re-extracted?	☑			
	Were all data qualifiers appropriately applied?	☐	Y	Y	
	Are problems, anomalies, discrepancies documented in LIMS? Specify if applicable.	☑			
MANUAL INT	Were manual integrations performed and documented? Specify if applicable.	☐	Y	Y	

APPROVALS	ANALYST INITIALS & DATE:	TD 11/23/20
	REVIEWED BY:	Rajabi, Ziyad Digitally signed by Rajabi, Ziyad Date: 2020.11.23 15:58:24 -08'00' SIGN HERE

COMMENTS

Custom analyte list.

Manual integrations for 1,1-Dichloroethene were not performed on the dilutions since the compound was reported from the undiluted run. ZAR 11/23/20

Injection Log

Operator: TD
Directory: C:\msdchem\1\Ravioli Data\2020\111820\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	11182001.D	1	S20K077-IBL1		18 Nov 2020 9:53
2	11182002.D	1	S20K077-TUN1	BFB 2040028	18 Nov 2020 10:15
3	11182003.D	1	S20K077-CCV1	2030070 5 mg/L	18 Nov 2020 10:24
4	11182004.D	1	S20K077-CRL1	2030073 0.05 mg/L	18 Nov 2020 10:49
5	11182005.D	10	2011016-06RE1	10X DL (180-20)	18 Nov 2020 11:12
6	11182006.D	10	2011016-07RE1	10X DL (180-20)	18 Nov 2020 11:36
7	11182007.D	10	2011016-08RE1	10X DL (180-20)	18 Nov 2020 12:00
8	11182008.D	10	2011016-09RE1	10X DL (180-20)	18 Nov 2020 12:23
9	11182009.D	10	2011016-10RE1	10X DL (180-20)	18 Nov 2020 12:47
10	11182010.D	10	2011016-11RE1	10X DL (180-20)	18 Nov 2020 13:11
11	11182011.D	10	2011016-14RE2	10X DL (180-20)	18 Nov 2020 13:34
12	11182012.D	10	2011016-15RE1	10X DL (180-20)	18 Nov 2020 13:58
13	11182013.D	10	2011016-16RE1	10X DL (180-20)	18 Nov 2020 14:21
14	11182014.D	10	2011017-05RE1	10X DL (180-20)	18 Nov 2020 14:45
15	11182015.D	10	2011017-09RE1	10X DL (180-20)	18 Nov 2020 15:09
16	11182016.D	10	2011017-13RE1	10X DL (180-20)	18 Nov 2020 15:32
17	11182017.D	10	2011017-14RE1	10X DL (180-20)	18 Nov 2020 15:56
18	11182018.D	10	2011017-18RE1	10X DL (180-20)	18 Nov 2020 16:20
19	11182019.D	20	2011017-01RE1	20X DL (190-10)	18 Nov 2020 16:43
20	11182020.D	20	2011017-08RE1	20X DL (190-10)	18 Nov 2020 17:07
1	11182021.D	1	IB		18 Nov 2020 17:31
1	11182022.D	1	IB		18 Nov 2020 17:54
1	11182023.D	1	IB		18 Nov 2020 18:18
1	11182024.D	1	IB		18 Nov 2020 18:41

GC/MS QA-QC Check Report

Table of Contents

Tune File : C:\msdchem\1\Ravioli Data\2020\111820\11182002.D
Tune Time : 18 Nov 2020 10:15

Daily Calibration File : C:\msdchem\1\Ravioli Data\2020\111820\11182003.D

593060

File	Sample	Surrogate Recovery %	Internal Standard Responses	
11182003.D	S20K077-CC	95	593060	
11182004.D	S20K077-CR	1*	623004	
11182005.D	2011016-06RE1	85*	506895	10X DL
11182006.D	2011016-07RE1	85*	647999	10X DL
11182007.D	2011016-08RE1	85*	574417	10X DL
11182008.D	2011016-09RE	86*	603921	10X DL
11182009.D	2011016-10RE1	86*	664502	10X DL
11182010.D	2011016-11RE1	85*	652599	10X DL
11182011.D	2011016-14RE2	85*	768598	10X DL
11182012.D	2011016-15RE1	85*	602733	10X DL
11182013.D	2011016-16RE1	85*	641205	10X DL
11182014.D	2011017-05RE1	83*	506386	10X DL
11182015.D	2011017-09RE1	85*	573233	10X DL
11182016.D	2011017-13RE1	85*	695635	10X DL
11182017.D	2011017-14RE1	85*	592963	10X DL
11182018.D	2011017-18RE1	85*	575048	10X DL
11182019.D	2011017-01RE1	85*	551198	20X DL
11182020.D	2011017-08RE1	85*	578086	20X DL

(fails) - fails 12hr time check * - fails criteria

Created: Thu Nov 19 06:48:57 2020 AG5975C

Analysis Sequence

S20K077

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2008017 Printed: 11/23/2020 1:38 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S20K077-IBL1	Instrument Blank	1	11/18/20 9:53		2030067	TD	11182001.D	
S20K077-TUN1	BFB	2	11/18/20 10:15	2040028		TD	11182002.D	
S20K077-CCV1	Calibration Check	3	11/18/20 10:24	2030070		TD	11182003.D	
S20K077-CRL1	Instrument RL Check	4	11/18/20 10:49	2030073		TD	11182004.D	
2011016-06RE1 A	6Sixty-A5-SC-1ft-7d	5	11/18/20 11:12			TD	11182005.D	
2011016-07RE1 A	6Sixty-A6-SC-1ft-7d	6	11/18/20 11:36			TD	11182006.D	
2011016-08RE1 A	6Sixty-A7-SC-1ft-7d	7	11/18/20 12:00			TD	11182007.D	
2011016-09RE1 A	6Sixty-A7-SC-1ft-7d-Dup	8	11/18/20 12:23			TD	11182008.D	
2011016-10RE1 A	6Sixty-A8-SC-1ft-7d-R	9	11/18/20 12:47			TD	11182009.D	
2011016-11RE1 A	6Sixty-A9-SC-1ft-7d-R	10	11/18/20 13:11			TD	11182010.D	
2011016-14RE2 A	6Sixty-B12-SC-1ft-7d-R	11	11/18/20 13:34			TD	11182011.D	
2011016-15RE1 A	6Sixty-B13-SC-1ft-7d	12	11/18/20 13:58			TD	11182012.D	
2011016-16RE1 A	6Sixty-B14-SC-1ft-7d-R	13	11/18/20 14:21			TD	11182013.D	
2011017-05RE1 A	Classics-A18-SC-1ft-7d	14	11/18/20 14:45			TD	11182014.D	
2011017-09RE1 A	Classics-C22-SC-1ft-7d	15	11/18/20 15:09			TD	11182015.D	
2011017-13RE1 A	Classics-D25-SC-1ft-7d	16	11/18/20 15:32			TD	11182016.D	
2011017-14RE1 A	Classics-E26-SC-1ft-7d	17	11/18/20 15:56			TD	11182017.D	
2011017-18RE1 A	Classics-G30-SC-1ft-7d	18	11/18/20 16:20			TD	11182018.D	
2011017-01RE1 A	Classics-MH1-2ft-4d-R	19	11/18/20 16:43			TD	11182019.D	
2011017-08RE1 A	Classics-B21-SC-1ft-7d-R	20	11/18/20 17:07			TD	11182020.D	

Sequence Comments

Analysis Sequence

S20K077

(Continued)

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2008017 Printed: 11/23/2020 1:38 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments

Reagents

Reagent #	Description

SEQUENCE DATA

S20K077

S20K077-IBL1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182001.D
Acq On : 18 Nov 2020 9:53
InstName : AG5975C
Operator : TD
Sample : S20K077-IBL1 (Sig #1); S20K011-IBL1 (Sig #2)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 23 11:01:24 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

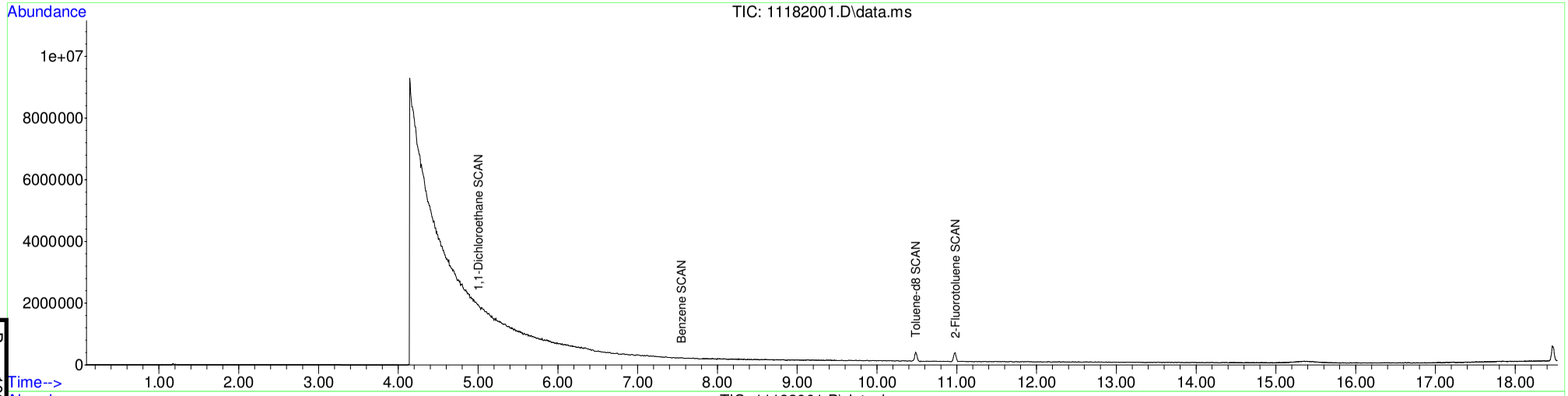
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	515479	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	431575	4276.81	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 85.54%#			
Target Compounds						Qvalue
22] 1,3,5-Trimethylbenzene	15.350	105	5823	41.84	ug/L	63
25) 2-Fluorotoluene SCAN	10.979	109	244101	4857.76	ug/L	98
28) 1,1-Dichloroethane SCAN	5.005	63	310	20.28	ug/L #	1
33) Benzene SCAN	7.550	78	15890	356.59	ug/L	91
36) Toluene-d8 SCAN	10.486	98	219992	4476.60	ug/L	95

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182001.D
Acq On : 18 Nov 2020 9:53
InstName : AG5975C
Operator : TD
Sample : S20K077-IBL1 (Sig #1); S20K011-IBL1 (Sig #2)
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 23 11:01:24 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration



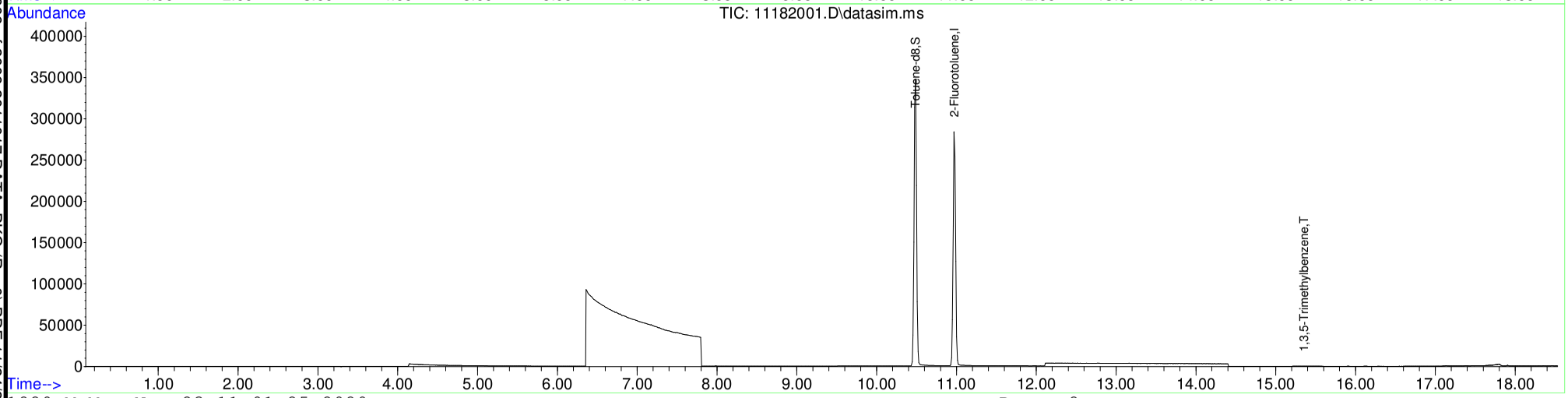


Table of Contents

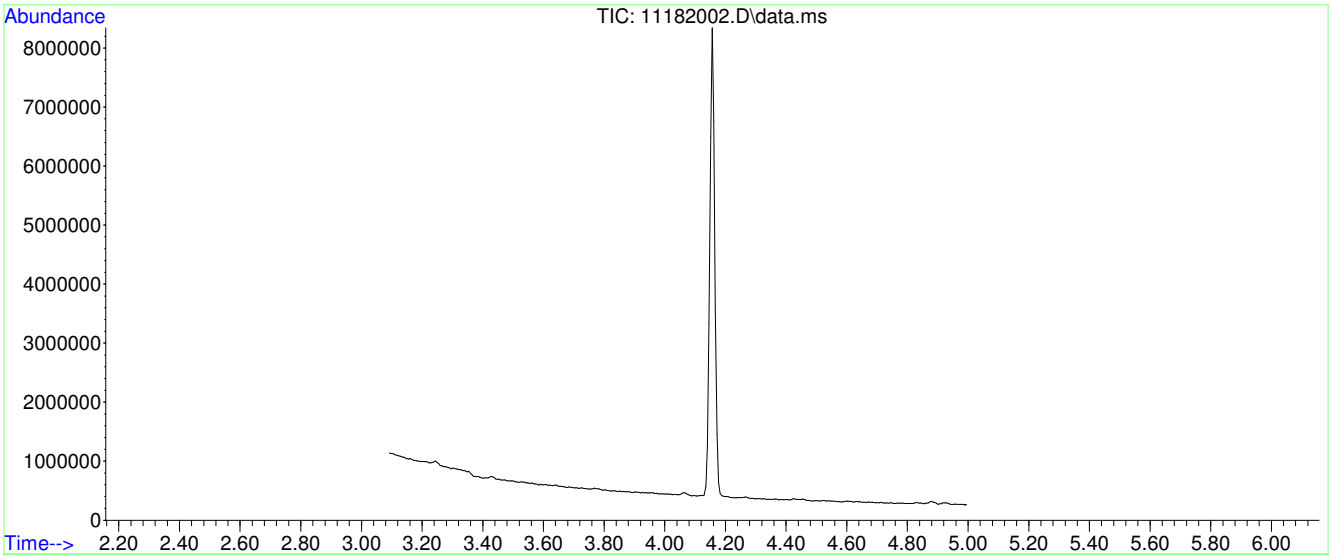
S20K077-TUN1

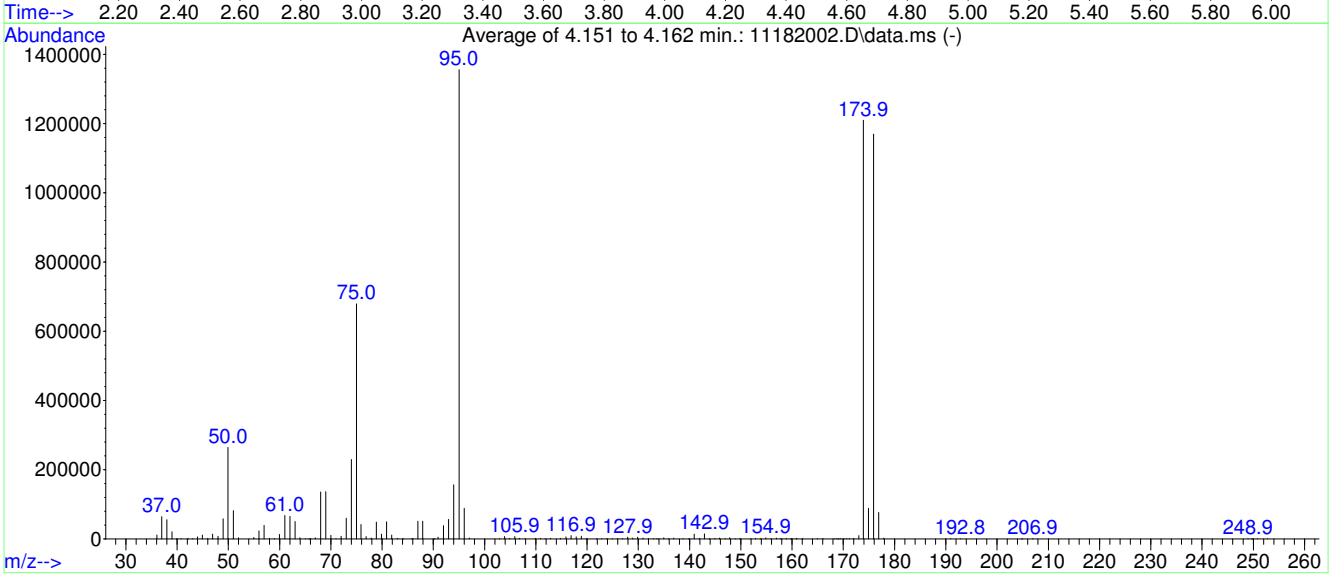
Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182002.D
Acq On : 18 Nov 2020 10:15
Operator : TD
Sample : S20K077-TUN1
Misc : BFB 2040028
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: Ravioli.P

Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Mon Nov 16 10:20:51 2020





AutoFind: Scans 203, 204, 205; Background Corrected with Scan 196

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	264386	PASS
75	95	30	60	50.1	679224	PASS
95	95	100	100	100.0	1355435	PASS
96	95	5	9	6.5	88715	PASS
173	174	0.00	2	0.8	9207	PASS
174	95	50	120	89.2	1209451	PASS
175	174	5	9	7.3	88035	PASS
176	174	95	101	96.7	1169920	PASS
177	176	5	9	6.5	76595	PASS

Average of 4.151 to 4.162 min.: 11182002.D\data.ms
S20K077-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	11326	46.95	13808	59.95	12339	70.00	9811
37.00	64392	48.00	7724	61.00	67099	71.00	323
38.00	55195	49.00	58320	62.00	65171	72.00	7244
39.00	20906	49.95	264386	63.00	49797	73.00	59422
39.95	657	51.00	81424	63.95	2752	74.00	229397
40.75	184	52.00	3328	65.00	284	75.00	679224
42.00	53	55.00	3617	65.70	175	75.90	41280
43.05	352	56.00	23019	65.90	16	76.90	6216
44.00	5272	57.00	38468	66.95	3224	77.90	2157
44.95	10730	58.05	1674	68.00	135261	78.90	48520
46.00	962	58.95	244	69.00	136037	79.90	13810

Average of 4.151 to 4.162 min.: 11182002.D\data.ms
S20K077-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.90	49304	93.00	56157	109.90	962	121.85	272
81.90	11350	94.00	156651	110.90	1580	122.85	483
83.00	1240	95.00	1.35544e+006	111.85	909	123.85	724
84.00	56	96.00	88715	112.90	1263	124.90	588
85.80	404	97.00	2678	114.85	1534	125.90	544
86.05	839	102.90	798	115.90	5479	126.85	367
87.00	50515	103.90	6536	116.90	8873	127.90	4743
87.95	50797	104.90	1672	117.90	5424	128.90	2227
90.10	61	105.90	6732	118.90	7786	129.85	4471
90.90	5009	106.85	1255	119.80	146	130.90	1877
92.00	38288	107.90	68	120.00	223	131.95	324

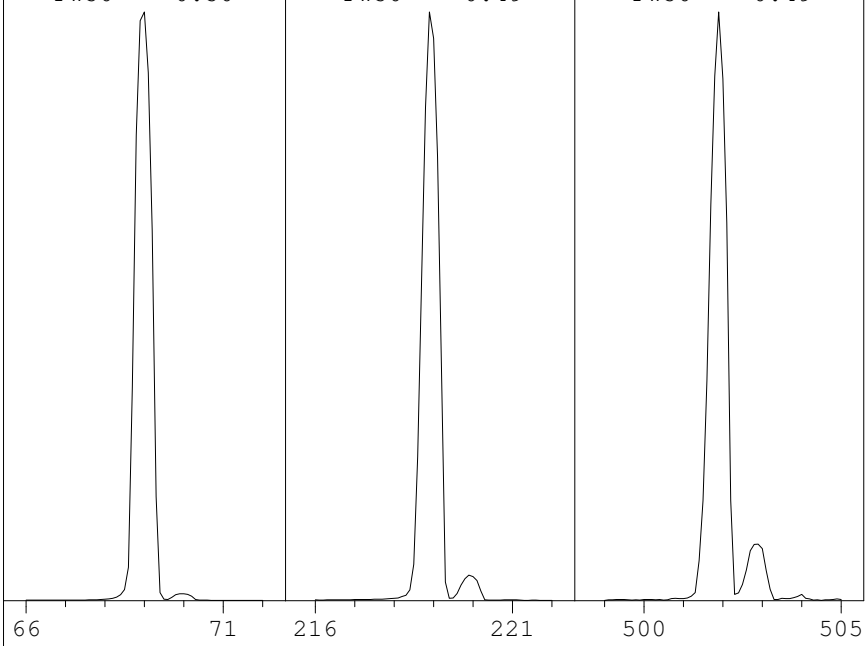
Average of 4.151 to 4.162 min.: 11182002.D\data.ms
S20K077-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
132.90	161	143.90	837	155.85	493	166.05	137
133.60	124	144.95	1162	156.95	2255	168.30	66
133.95	480	145.85	2168	157.70	81	168.75	241
134.95	2726	146.95	756	158.00	101	169.00	60
135.85	343	147.85	3424	158.85	1647	169.50	77
136.90	2333	148.90	799	159.70	51	170.15	252
138.75	375	149.85	1471	160.00	108	170.70	381
139.85	909	151.95	655	160.80	345	171.20	230
140.90	13875	152.90	1025	160.95	1077	172.00	1118
141.90	1556	153.85	754	161.90	50	173.00	9207
142.90	14107	154.90	3450	164.90	72	173.90	1.20945e+006

Average of 4.151 to 4.162 min.: 11182002.D\data.ms
S20K077-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
174.90	88035	252.80	70				
175.90	1.16992e+006						
176.90	76595						
177.90	2008						
190.95	281						
192.80	292						
204.80	53						
206.95	493						
248.95	425						
249.70	51						
250.85	165						

Mass	69.00	Mass	218.90	Mass	501.90
Ab	338925	Ab	227790	Ab	6095
Pw50	0.50	Pw50	0.49	Pw50	0.49

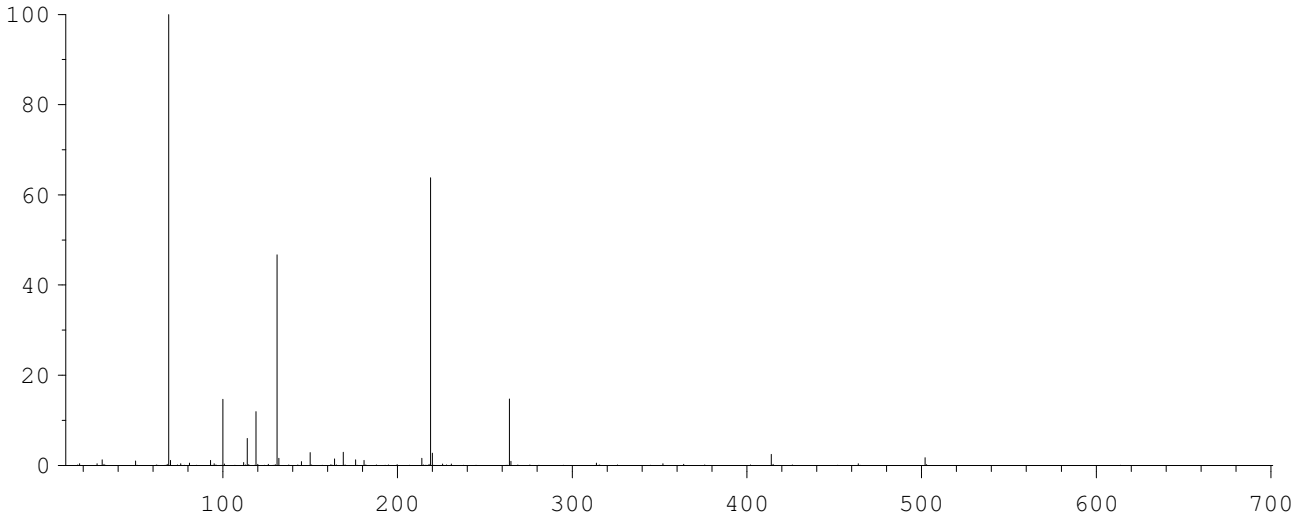


Ion Pol	Pos	MassGain	-1192
		MassOffs	-39
Emission	34.6	AmuGain	978
EIEnrgy	69.9	AmuOffs	127.94
Filament	1	Wid219	-0.003
		DC Pol	Pos
Repeller	29.79		
IonFcus	69.3	HEDEnab	On
EntLens	0.0	EMVolts	1329
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	230	Turbo Speed	100
MS Quad	150	HiVac	0.00e00

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10
100 peaks Base: 69.00 Abundance: 321792



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	321792	100.00	70.00	3650	1.13
219.00	205312	63.80	220.00	8771	4.27
502.00	5568	1.73	502.90	536	9.63

Air/Water Check: H20~0.39% N2~0.38% O2~0.23% CO2~0.00% N2/H2O~96.83%

Column(1) Flow: 1 Column(2): -1.79769e+308 ml/min. Interface Temp: 300

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 36664
Repeller Maximum 30 volts using ion 219; Gain Factor 0.37

MassGain Values(Samples): -1180(3) -1178(2) -1158(1) -1128(0) -1041(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	127.9	127.9	127.9	127.9	127.9	127.9	127.9
Entrance Lens Offset:	16.8	14.1	14.3	15.6	16.1	16.8	16.8
Target Abund(%):	1.0	100.0	45.0	55.0	2.5	2.0	
Actual Tune Abund(%):	1.0	100.0	46.7	63.8	2.4	1.7	

S20K077-CCV1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182003.D
Acq On : 18 Nov 2020 10:24
InstName : AG5975C
Operator : TD
Sample : S20K077-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 18 10:43:33 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.03min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	2-Fluorotoluene	1.000	1.000	0.0	88	0.00
2	T	1,1-Dichloroethene	0.200	0.192	4.0	90	0.00
3	T	trans-1,2-Dichloroethene	0.231	0.215	6.9	88	0.03#
4	T	1,1-Dichloroethane	0.287	0.270	5.9	89	0.02
5	T	cis-1,2-Dichloroethene	0.303	0.284	6.3	88	0.01
6	T	Chloroform	0.310	0.291	6.1	88	0.01
7	T	1,1,1-Trichloroethane	0.337	0.312	7.4	87	0.01
8	T	Carbon tetrachloride	0.317	0.294	7.3	86	0.01
9	T	Benzene	0.850	0.795	6.5	90	0.01
10	T	1,2-Dichloroethane	0.303	0.278	8.3	86	0.01
11	T	Trichloroethene	0.256	0.244	4.7	89	0.01
12	S	Toluene-d8	0.979	0.929	5.1	88	0.00
13	T	Toluene	1.248	1.121	10.2	88	0.01
14	T	1,1,2-Trichloroethane	0.272	0.255	6.3	88	0.01
15	T	Tetrachloroethene	0.361	0.337	6.6	86	0.00
16	T	Chlorobenzene	0.894	0.841	5.9	86	0.00
17	T	1,1,1,2-Tetrachloroethane	0.320	0.296	7.5	85	0.00
18	T	Ethylbenzene	1.519	1.384	8.9	86	0.00
19	T	m&p-Xylene	1.187	1.055	11.1	85	0.00
20	T	o-Xylene	1.268	1.142	9.9	84	0.00
21	T	1,1,2,2-Tetrachloroethane	0.562	0.519	7.7	85	0.00
22	T	1,3,5-Trimethylbenzene	1.350	1.231	8.8	83	0.00
23	T	1,2,4-Trimethylbenzene	1.402	1.240	11.6	83	0.00
24	T	Naphthalene	2.216	2.122	4.2	87	0.00
25		2-Fluorotoluene SCAN	0.487	0.467	4.1	84	0.00
26		1,1-Dichloroethene SCAN	0.104	0.105	-1.0	89	0.01
27		trans-1,2-Dichloroethene SC	0.128	0.122	4.7	84	0.03#
28		1,1-Dichloroethane SCAN	0.148	0.147	0.7	88	0.02
29		cis-1,2-Dichloroethene SCAN	0.159	0.161	-1.3	89	0.02
30		Chloroform SCAN	0.172	0.146	15.1	75	0.01
31		1,1,1-Trichloroethane SCAN	0.157	0.156	0.6	87	0.01
32		Carbon tetrachloride SCAN	0.164	0.129	21.3	70	0.01
33		Benzene SCAN	0.432	0.410	5.1	84	0.01
34		1,2-Dichloroethane SCAN	0.160	0.150	6.3	83	0.01
35		Trichloroethene SCAN	0.119	0.107	10.1	80	0.01
36		Toluene-d8 SCAN	0.477	0.465	2.5	86	0.01
37		Toluene SCAN	0.610	0.555	9.0	80	0.01
38		1,1,2-Trichloroethane SCAN	0.137	0.128	6.6	82	0.00
39		Tetrachloroethene SCAN	0.147	0.153	-4.1	92	0.00
40		Chlorobenzene SCAN	0.417	0.401	3.8	85	0.00
41		1,1,1,2-Tetrachloroethane S	0.154	0.136	11.7	78	0.00
42		Ethylbenzene SCAN	1.112	1.017	8.5	81	0.00
43		m&p-Xylene SCAN	1.112	1.017	8.5	81	0.00
44		o-Xylene SCAN	0.595	0.550	7.6	81	0.00
45		1,1,2,2-Tetrachloroethane S	0.290	0.279	3.8	85	0.00
46		1,3,5-Trimethylbenzene SCAN	0.627	0.574	8.5	81	0.00
47		1,2,4-Trimethylbenzene SCAN	0.642	0.594	7.5	82	0.00
48		Naphthalene SCAN	0.971	0.908	6.5	82	0.00

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182003.D
Acq On : 18 Nov 2020 10:24
InstName : AG5975C
Operator : TD
Sample : S20K077-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 18 10:43:33 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

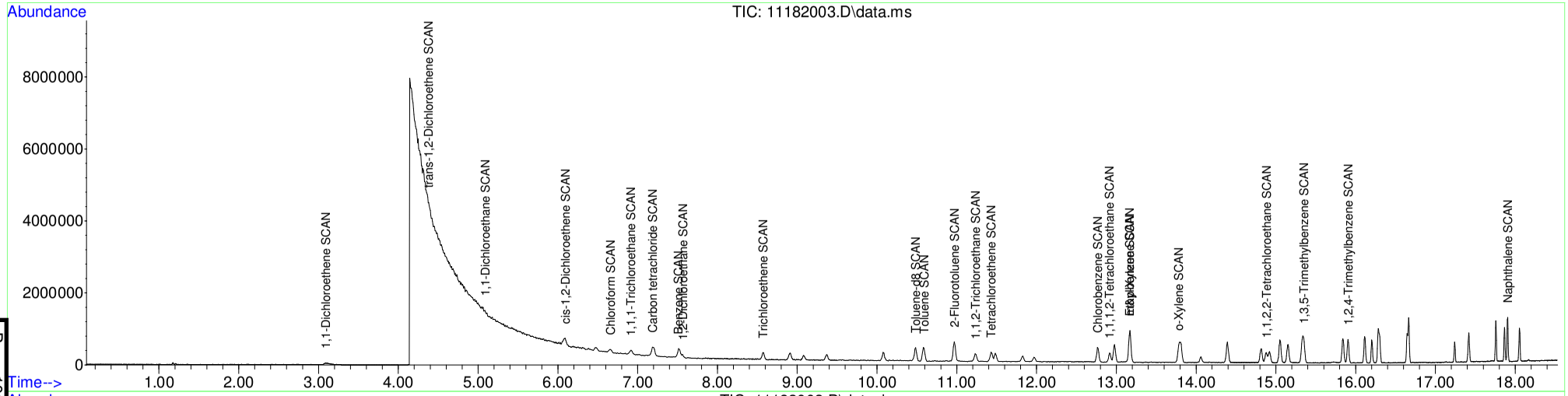
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	593060	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	550939	4745.47 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 94.91%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.093	61	113703	4801.27 ug/L	86
3] trans-1,2-Dichloroethene	4.376	61	127788	4670.40 ug/L	99
4] 1,1-Dichloroethane	5.086	63	160134	4701.59 ug/L	98
5] cis-1,2-Dichloroethene	6.088	61	168190	4678.16 ug/L	99
6] Chloroform	6.652	83	172720	4693.68 ug/L	100
7] 1,1,1-Trichloroethane	6.919	97	185201	4634.26 ug/L	99
8] Carbon tetrachloride	7.187	117	174121	4629.17 ug/L	100
9] Benzene	7.515	78	471235	4676.61 ug/L	98
10] 1,2-Dichloroethane	7.552	62	164927	4585.05 ug/L	99
11] Trichloroethene	8.575	130	144637	4767.40 ug/L	95
13] Toluene	10.582	91	664841	4491.74 ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	151236	4689.16 ug/L	96
15] Tetrachloroethene	11.432	166	199898	4666.70 ug/L	100
16] Chlorobenzene	12.765	112	498576	4704.28 ug/L	94
17] 1,1,1,2-Tetrachloroethane	12.916	131	175811	4629.52 ug/L	100
18] Ethylbenzene	12.972	91	821047	4557.21 ug/L	99
19] m&p-Xylene	13.162	91	1251042	8884.63 ug/L	97
20] o-Xylene	13.782	91	677015	4500.32 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.877	83	307574	4613.21 ug/L	100
22] 1,3,5-Trimethylbenzene	15.350	105	729771	4557.58 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	735522	4422.36 ug/L	97
24] Naphthalene	17.902	128	1258725	4788.45 ug/L	100
25) 2-Fluorotoluene SCAN	10.969	109	276704	4786.24 ug/L	93
26) 1,1-Dichloroethene SCAN	3.088	61	62072	5055.69 ug/L #	36
27) trans-1,2-Dichloroethe...	4.381	61	72574	4776.88 ug/L	84
28) 1,1-Dichloroethane SCAN	5.084	63	87381	4969.72 ug/L	98
29) cis-1,2-Dichloroethene...	6.093	61	95532	5071.20 ug/L #	76
30) Chloroform SCAN	6.662	83	86462	4231.57 ug/L	89
31) 1,1,1-Trichloroethane ...	6.918	97	92443	4964.75 ug/L	93
32) Carbon tetrachloride SCAN	7.185	117	76748	3951.49 ug/L	94
33) Benzene SCAN	7.514	78	243121	4742.21 ug/L	96
34) 1,2-Dichloroethane SCAN	7.563	62	89008	4701.79 ug/L	90
35) Trichloroethene SCAN	8.573	130	63693	4520.88 ug/L	81
36) Toluene-d8 SCAN	10.486	98	275854	4879.02 ug/L	92
37) Toluene SCAN	10.591	91	328994	4543.72 ug/L	96
38) 1,1,2-Trichloroethane ...	11.231	97	75731	4659.75 ug/L	95
39) Tetrachloroethene SCAN	11.430	166	90949	5228.34 ug/L	93
40) Chlorobenzene SCAN	12.764	112	237990	4810.13 ug/L	89
41) 1,1,1,2-Tetrachloroeth...	12.915	131	80889	4417.67 ug/L	97
42) Ethylbenzene SCAN	13.169	91	602903	4570.51 ug/L	95
43) m&p-Xylene SCAN	13.169	91	602903	4570.51 ug/L	95
44) o-Xylene SCAN	13.781	91	326142	4618.98 ug/L	98
45) 1,1,2,2-Tetrachloroeth...	14.879	83	165603	4809.85 ug/L	96
46) 1,3,5-Trimethylbenzene...	15.348	105	340131	4570.74 ug/L	99
47) 1,2,4-Trimethylbenzene...	15.904	105	352343	4627.40 ug/L	92
48) Naphthalene SCAN	17.905	128	538717	4675.70 ug/L	99

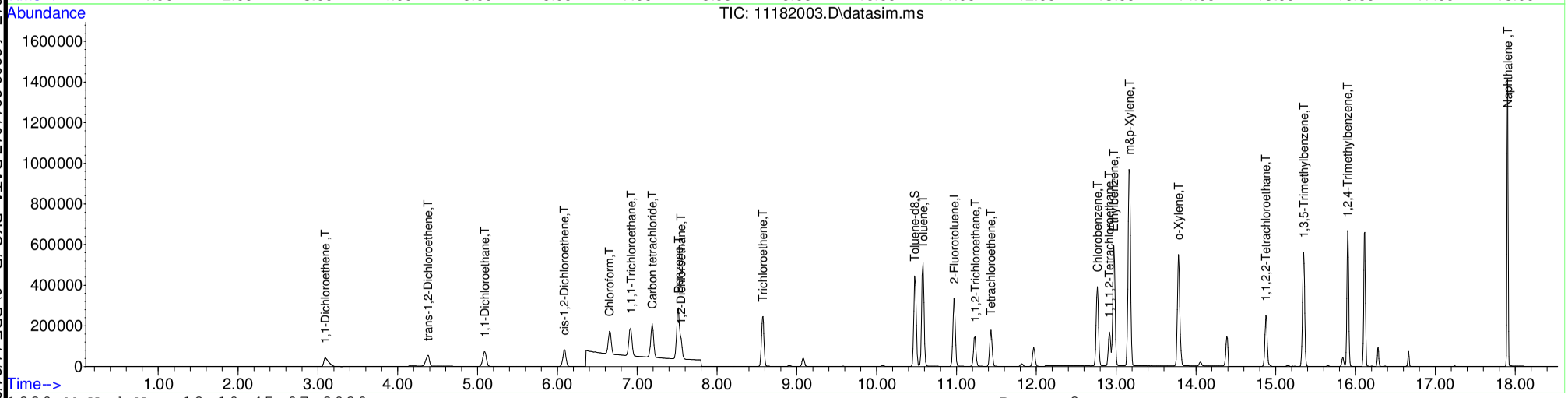
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182003.D
Acq On : 18 Nov 2020 10:24
InstName : AG5975C
Operator : TD
Sample : S20K077-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 18 10:43:33 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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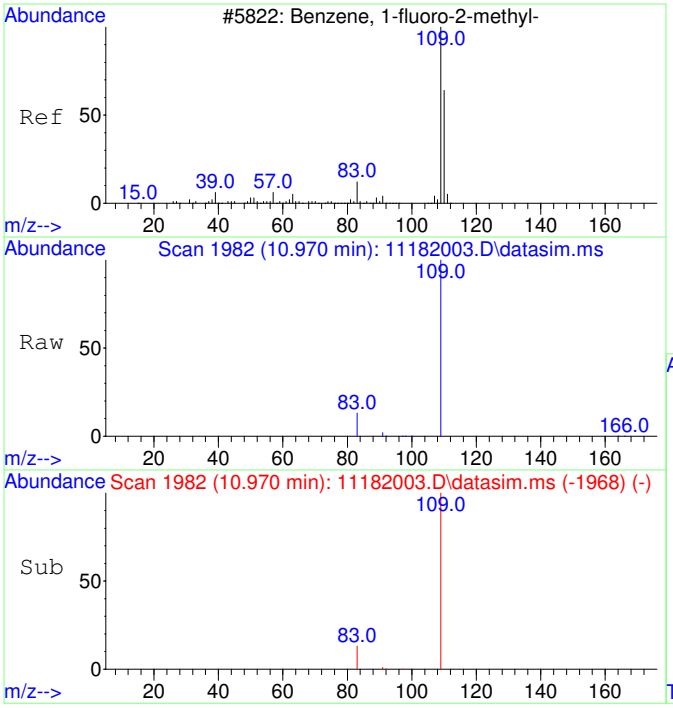
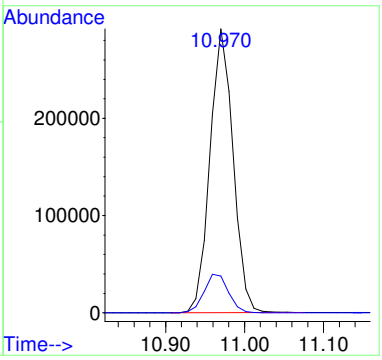
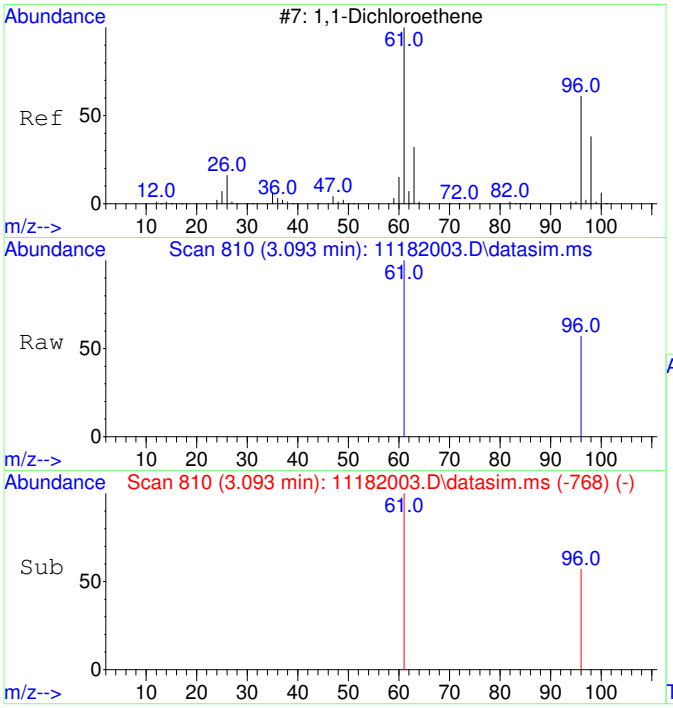


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:109 Resp: 593060

Ion	Ratio	Lower	Upper
109	100		
83	14.3	0.0	42.3

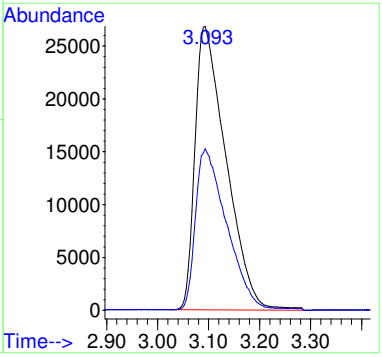


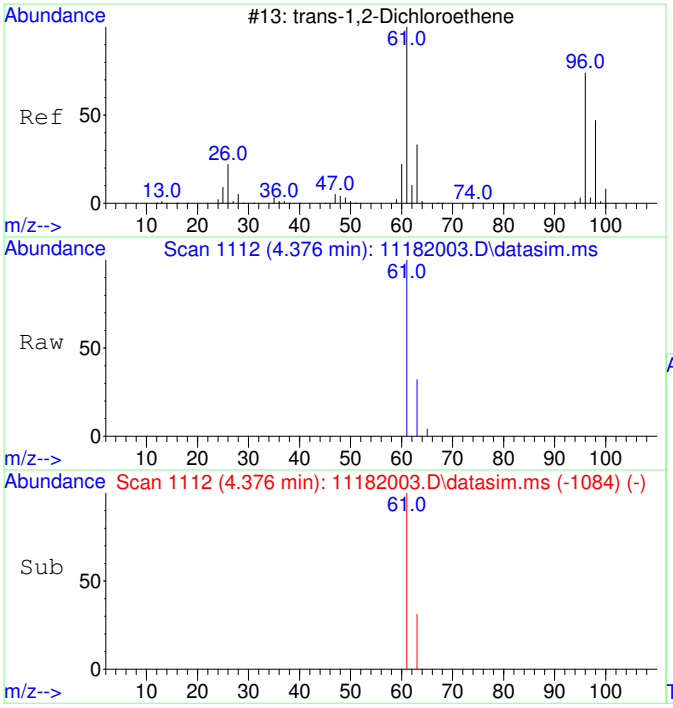


#2
1,1-Dichloroethene
Concen: 4801.27 ug/L
RT: 3.093 min Scan# 810
Delta R.T. 0.007 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 61 Resp: 113703

Ion	Ratio	Lower	Upper
61	100		
96	55.6	37.2	97.2

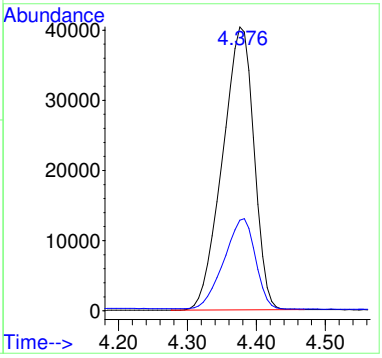


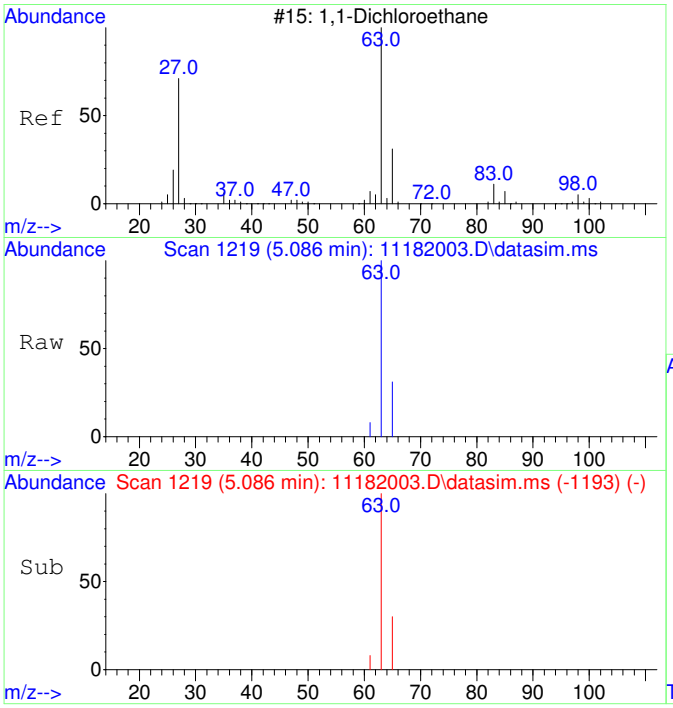


#3
trans-1,2-Dichloroethene
Concen: 4670.40 ug/L
RT: 4.376 min Scan# 1112
Delta R.T. 0.033 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 61 Resp: 127788

Ion	Ratio	Lower	Upper
61	100		
63	31.7	2.4	62.4

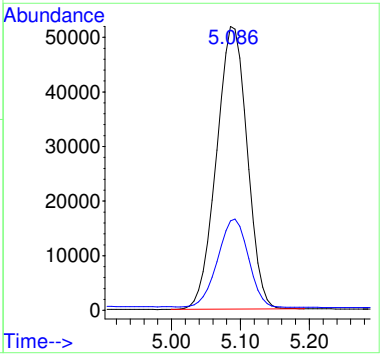


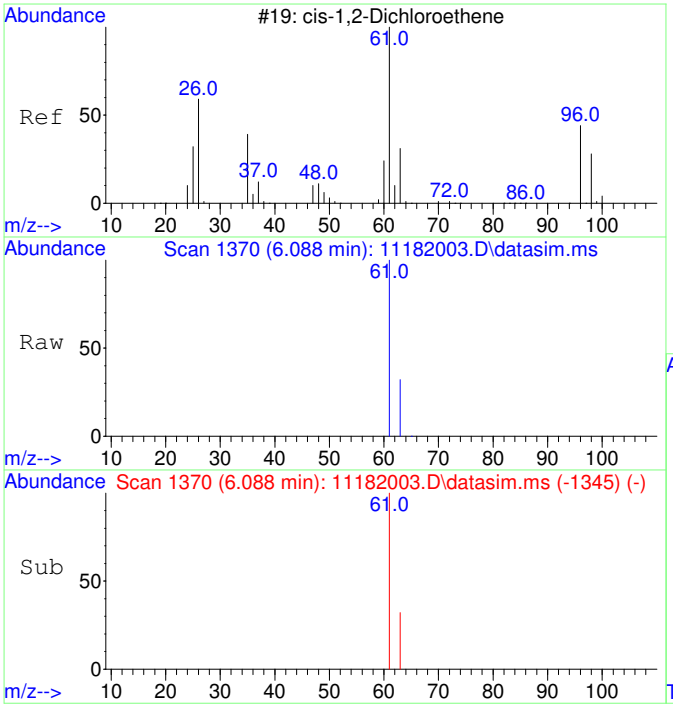


#4
1,1-Dichloroethane
Concen: 4701.59 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 63 Resp: 160134

Ion	Ratio	Lower	Upper
63	100		
65	30.9	1.8	61.8

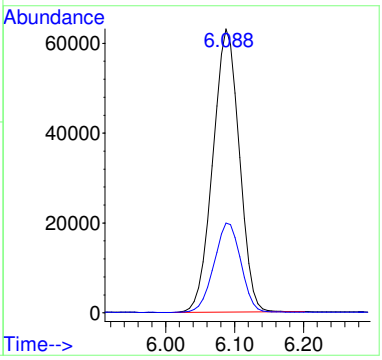


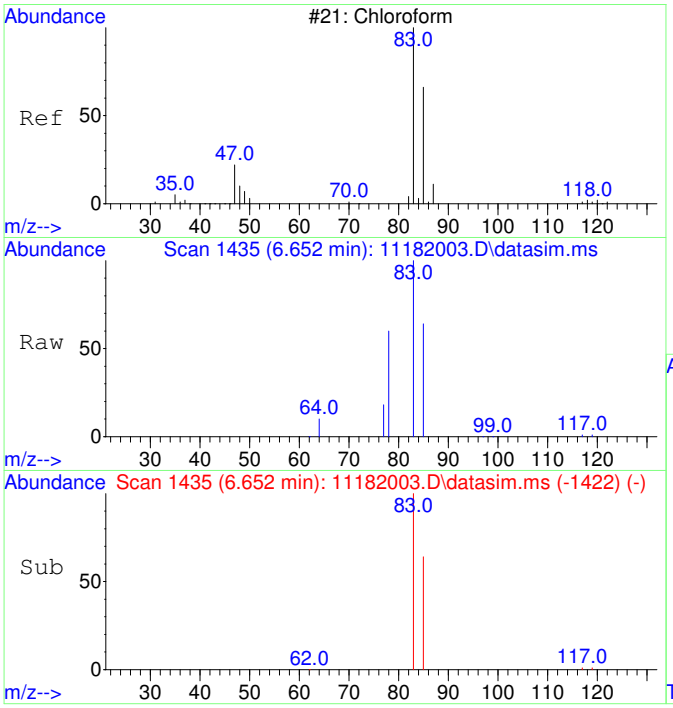


#5
cis-1,2-Dichloroethene
Concen: 4678.16 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 61 Resp: 168190

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

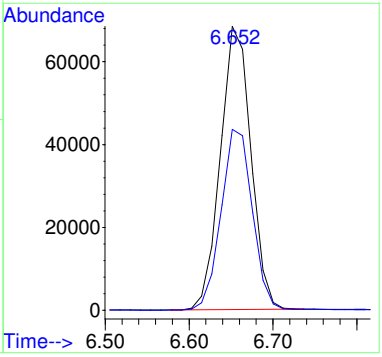


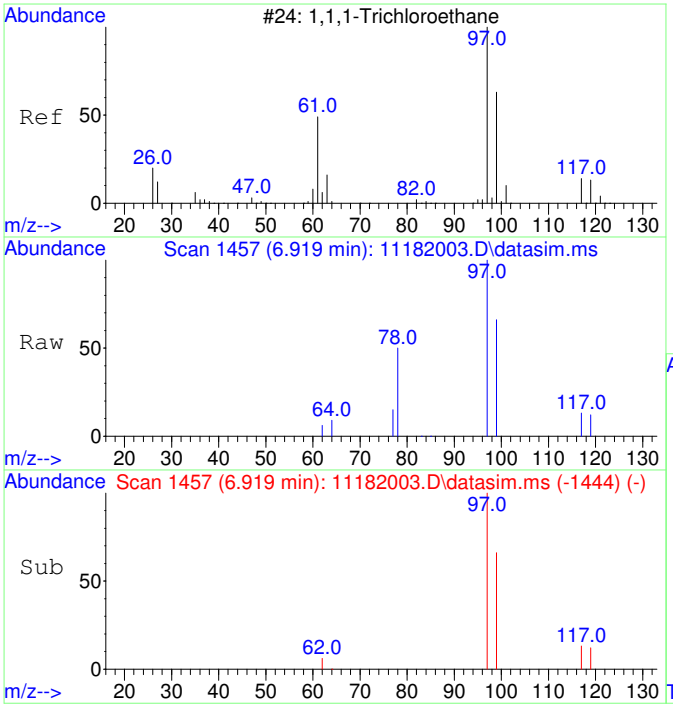


#6
Chloroform
Concen: 4693.68 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 83 Resp: 172720

Ion	Ratio	Lower	Upper
83	100		
85	65.0	35.1	95.1

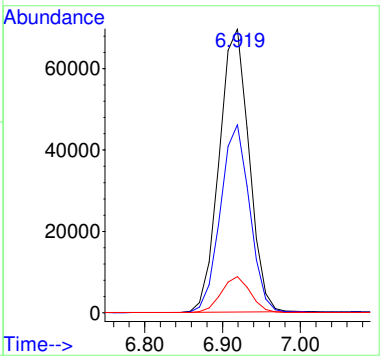


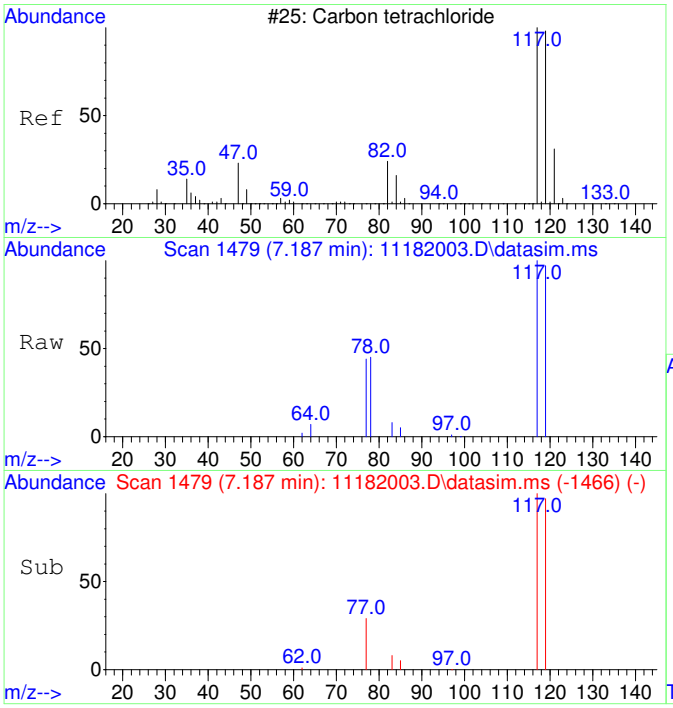


#7
1,1,1-Trichloroethane
Concen: 4634.26 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.012 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 97 Resp: 185201

Ion	Ratio	Lower	Upper
97	100		
99	64.9	34.6	94.6
117	12.4	0.0	43.2

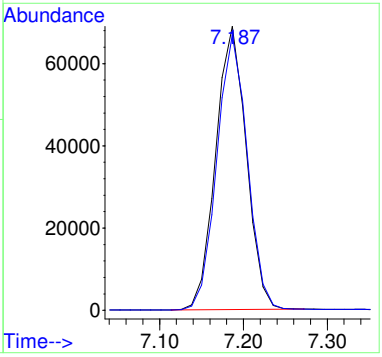


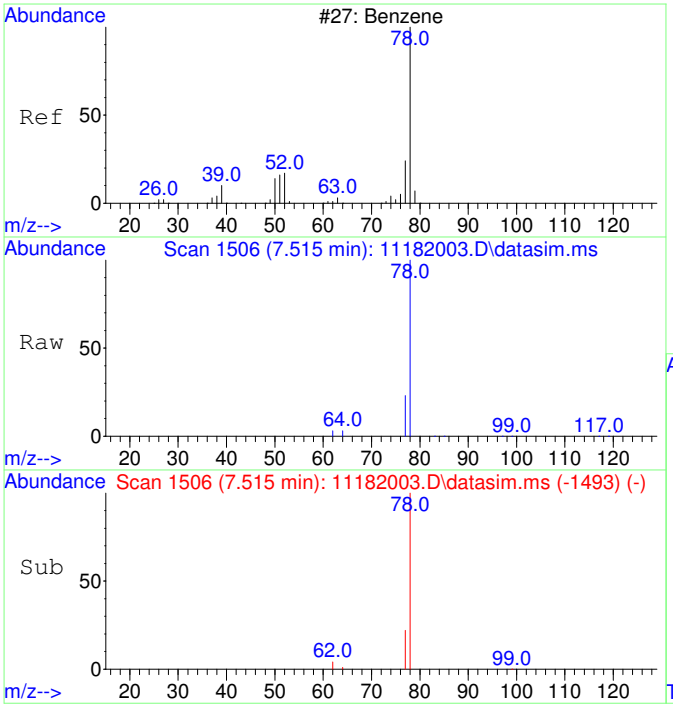


#8
Carbon tetrachloride
Concen: 4629.17 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:117 Resp: 174121

Ion	Ratio	Lower	Upper
117	100		
119	96.4	66.4	126.4

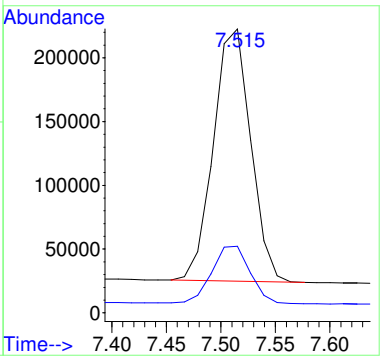


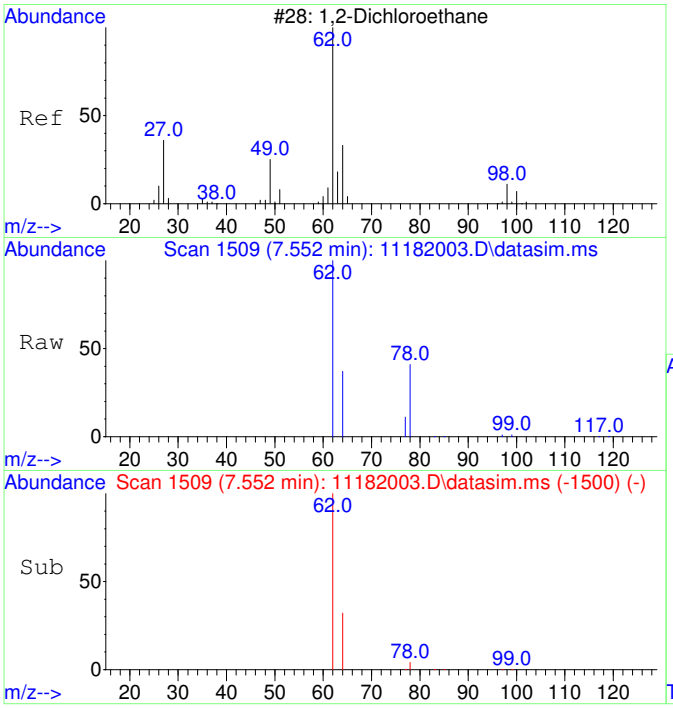


#9
Benzene
Concen: 4676.61 ug/L
RT: 7.515 min Scan# 1506
Delta R.T. 0.012 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 78 Resp: 471235

Ion	Ratio	Lower	Upper
78	100		
77	24.2	0.0	53.2

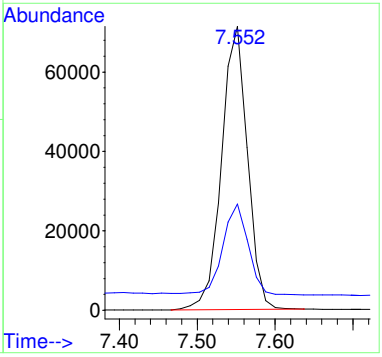


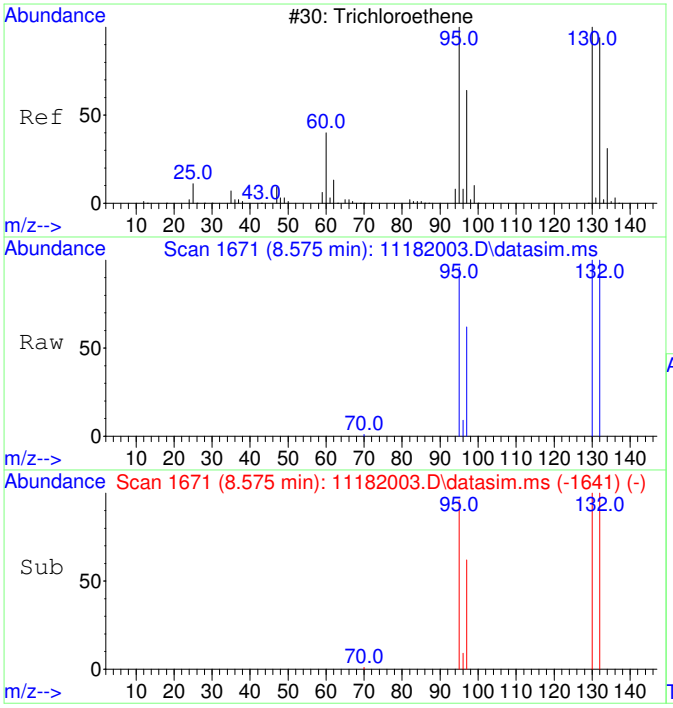


#10
1,2-Dichloroethane
Concen: 4585.05 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 62 Resp: 164927

Ion	Ratio	Lower	Upper
62	100		
64	31.7	2.3	62.3

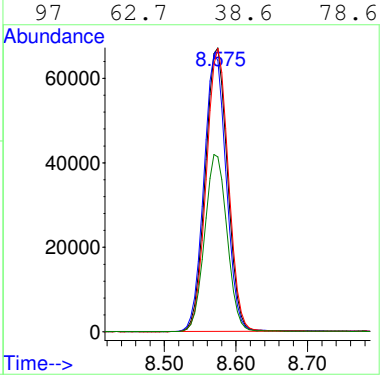


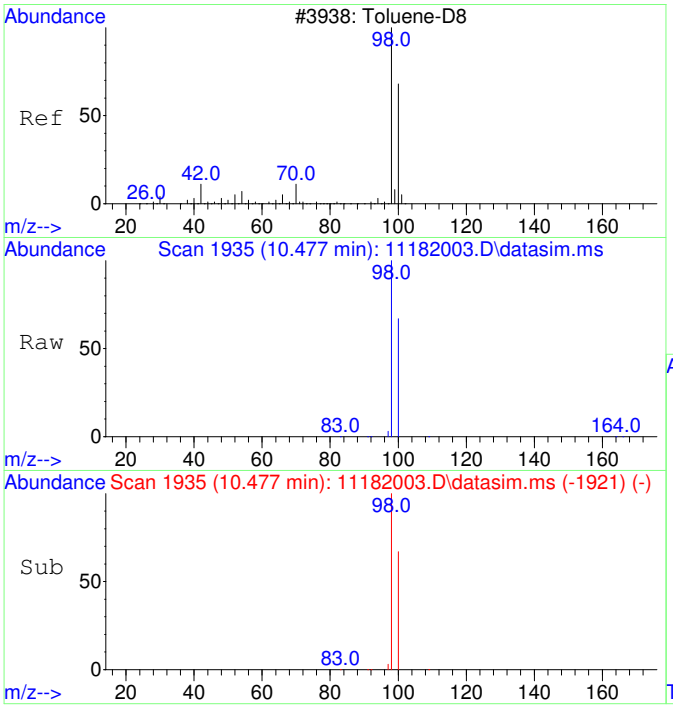


#11
Trichloroethene
Concen: 4767.40 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:130 Resp: 144637

Ion	Ratio	Lower	Upper
130	100		
95	97.9	60.7	120.7
132	98.9	76.0	116.0
97	62.7	38.6	78.6

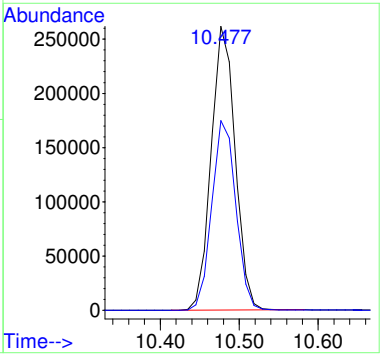


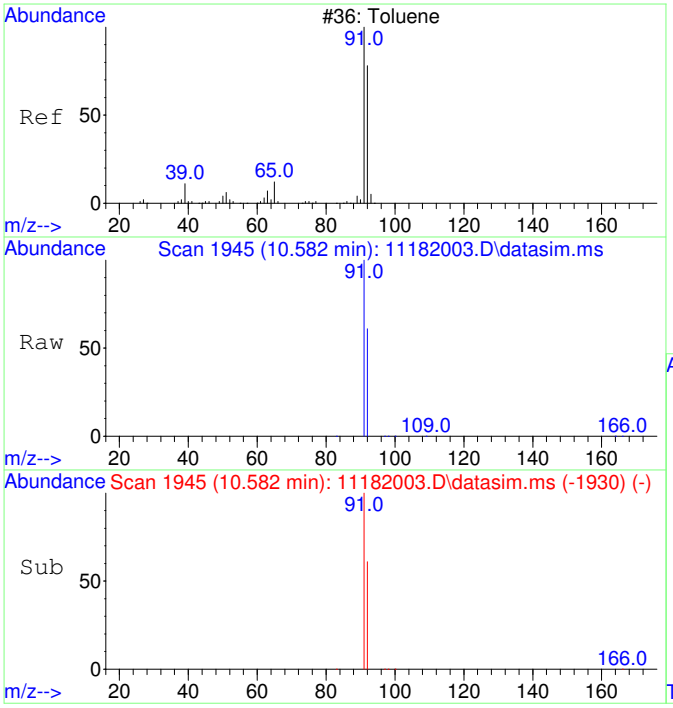


#12
Toluene-d8
Concen: 4745.47 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 98 Resp: 550939

Ion	Ratio	Lower	Upper
98	100		
100	67.0	37.1	97.1

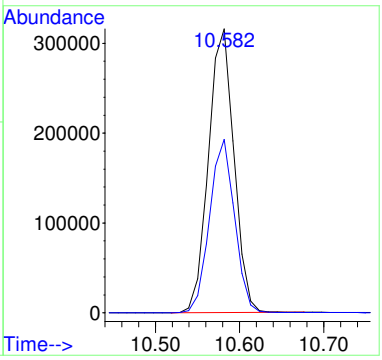


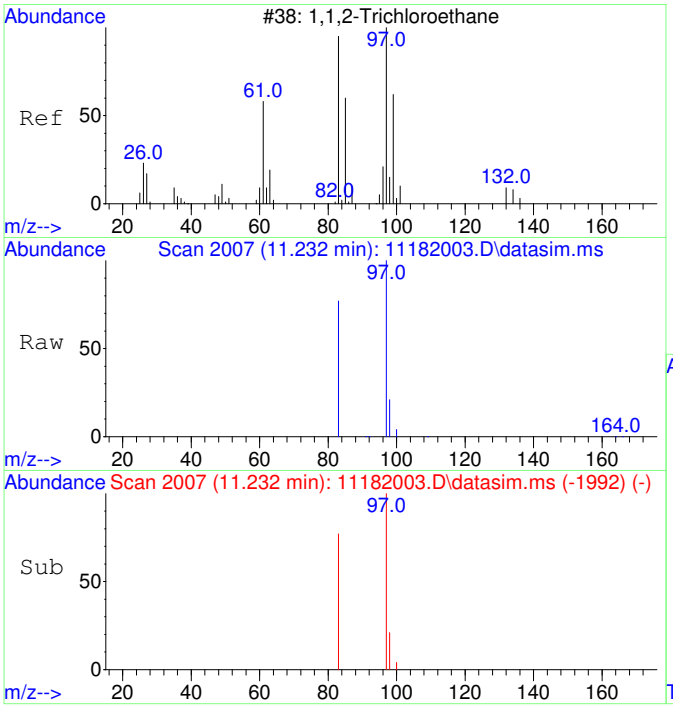


#13
Toluene
Concen: 4491.74 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 91 Resp: 664841

Ion	Ratio	Lower	Upper
91	100		
92	59.7	29.9	89.9

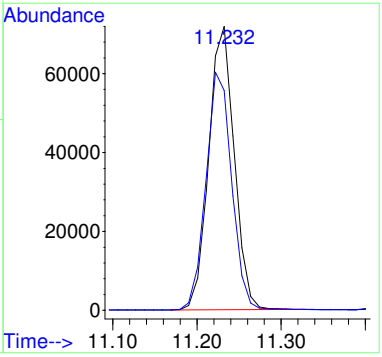


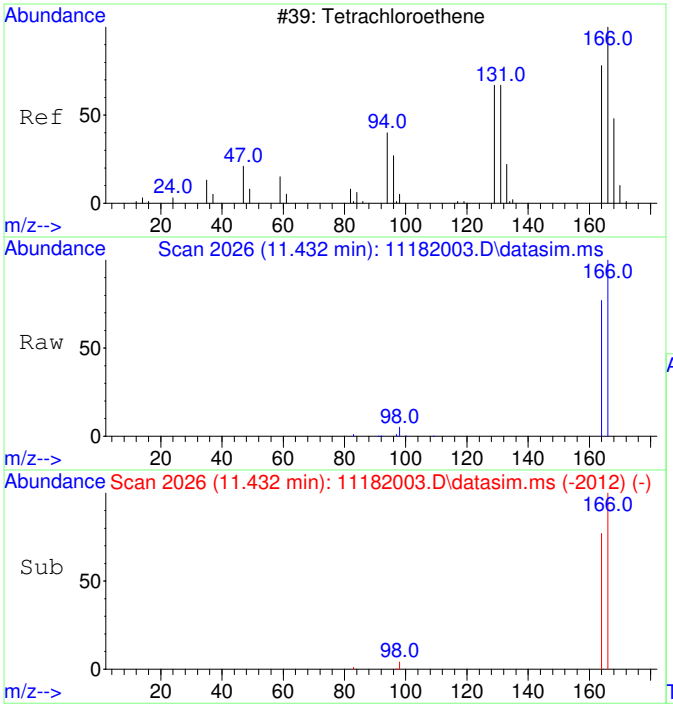


#14
1,1,2-Trichloroethane
Concen: 4689.16 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 97 Resp: 151236

Ion	Ratio	Lower	Upper
97	100		
83	84.4	51.2	111.2

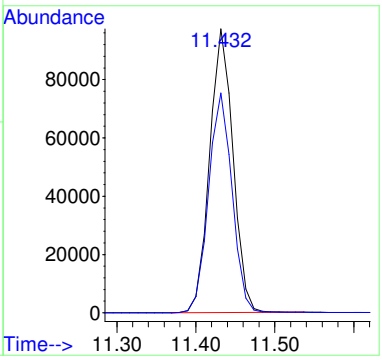


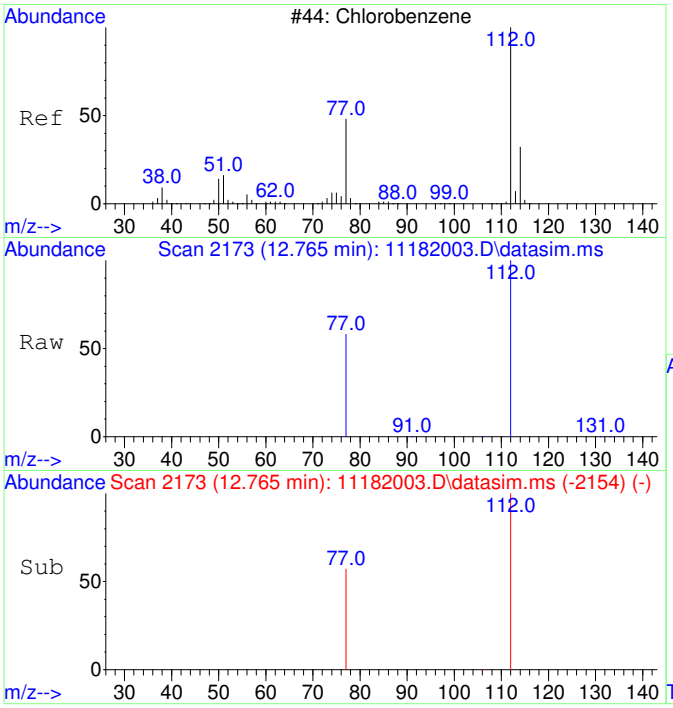


#15
Tetrachloroethene
Concen: 4666.70 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:166 Resp: 199898

Ion	Ratio	Lower	Upper
166	100		
164	77.7	47.8	107.8

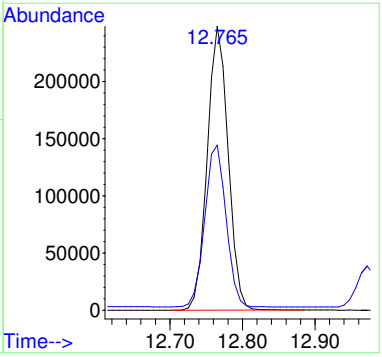


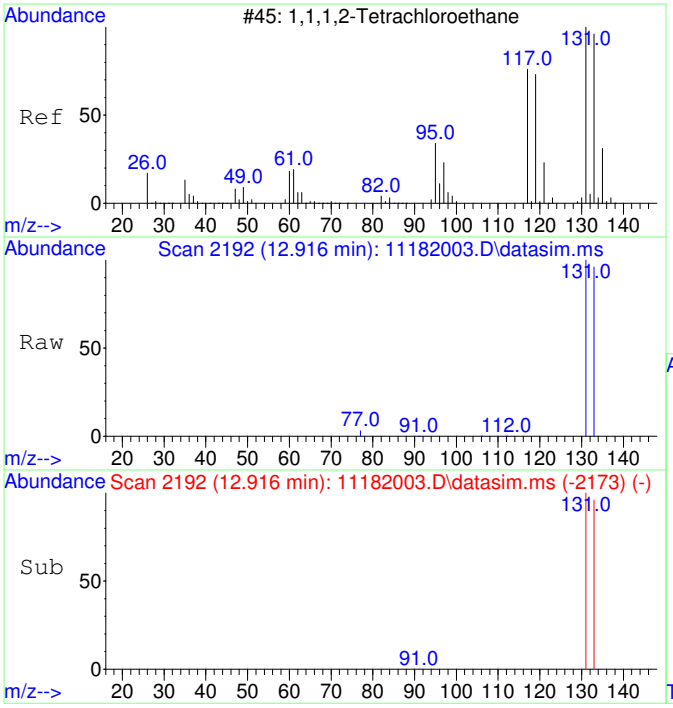


#16
Chlorobenzene
Concen: 4704.28 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:112 Resp: 498576

Ion	Ratio	Lower	Upper
112	100		
77	57.9	23.6	83.6

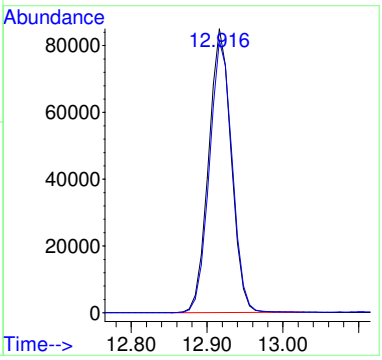


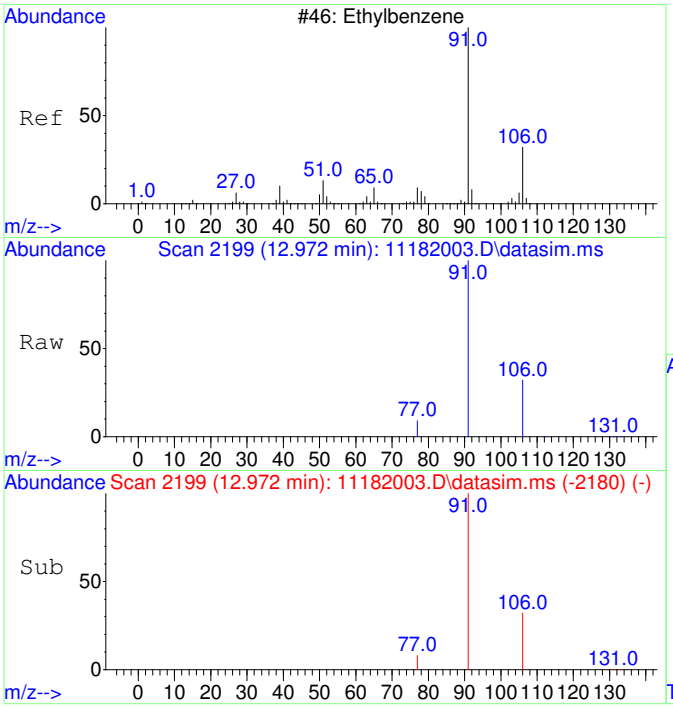


#17
1,1,1,2-Tetrachloroethane
Concen: 4629.52 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:131 Resp: 175811

Ion	Ratio	Lower	Upper
131	100		
133	96.2	66.3	126.3

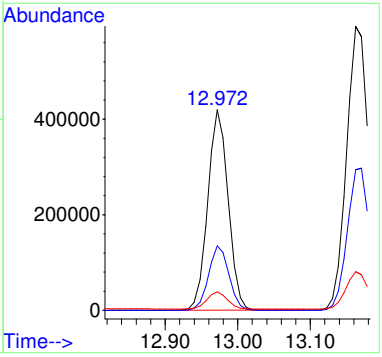


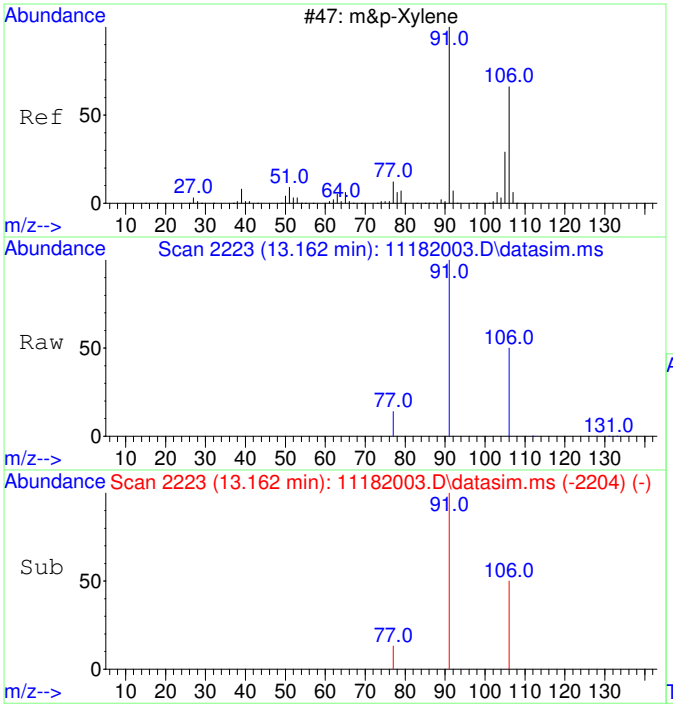


#18
Ethylbenzene
Concen: 4557.21 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 91 Resp: 821047

Ion	Ratio	Lower	Upper
91	100		
106	32.1	3.0	63.0
77	8.5	0.0	38.2

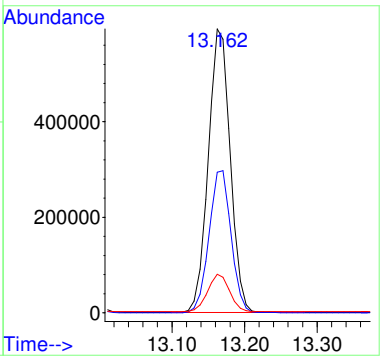


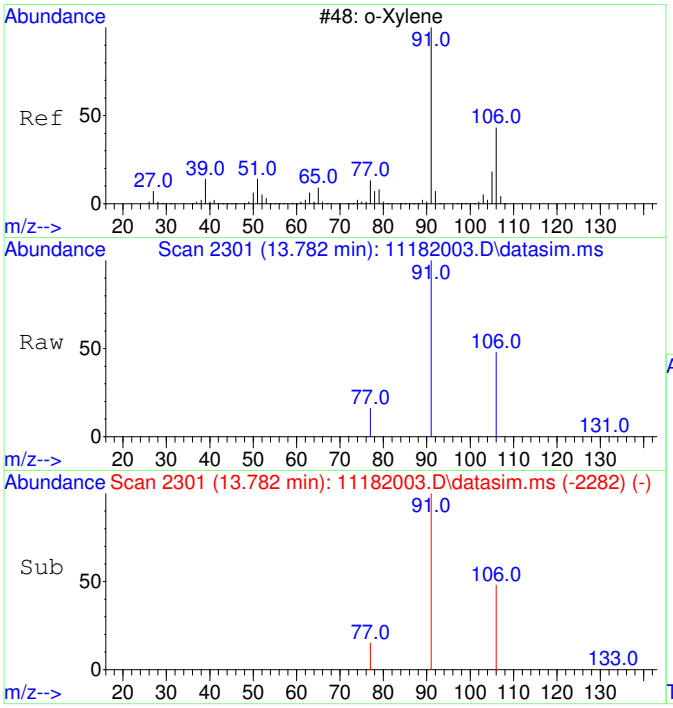


#19
m&p-Xylene
Concen: 8884.63 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 91 Resp: 1251042

Ion	Ratio	Lower	Upper
91	100		
106	50.3	22.2	82.2
77	13.1	0.0	42.4

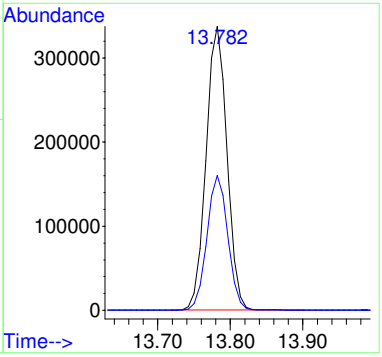


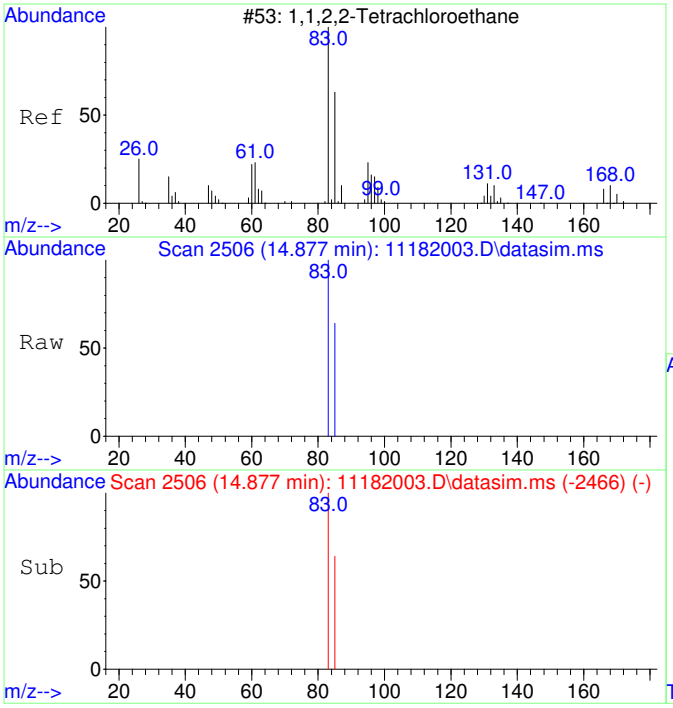


#20
o-Xylene
Concen: 4500.32 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 91 Resp: 677015

Ion	Ratio	Lower	Upper
91	100		
106	47.4	19.2	79.2

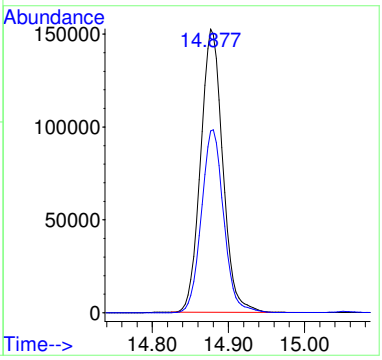


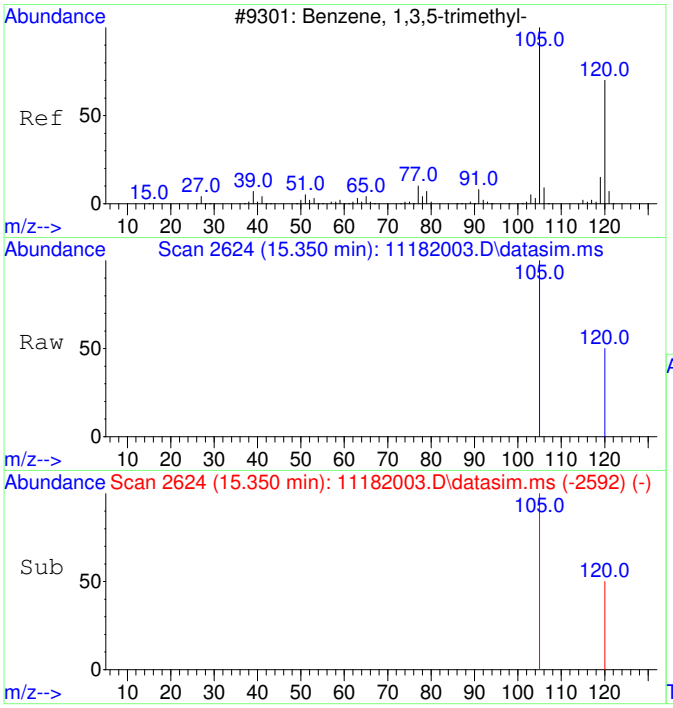


#21
1,1,2,2-Tetrachloroethane
Concen: 4613.21 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 83 Resp: 307574

Ion	Ratio	Lower	Upper
83	100		
85	64.9	34.8	94.8

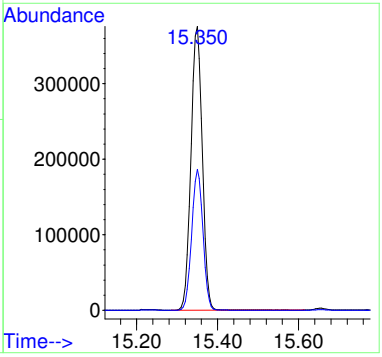


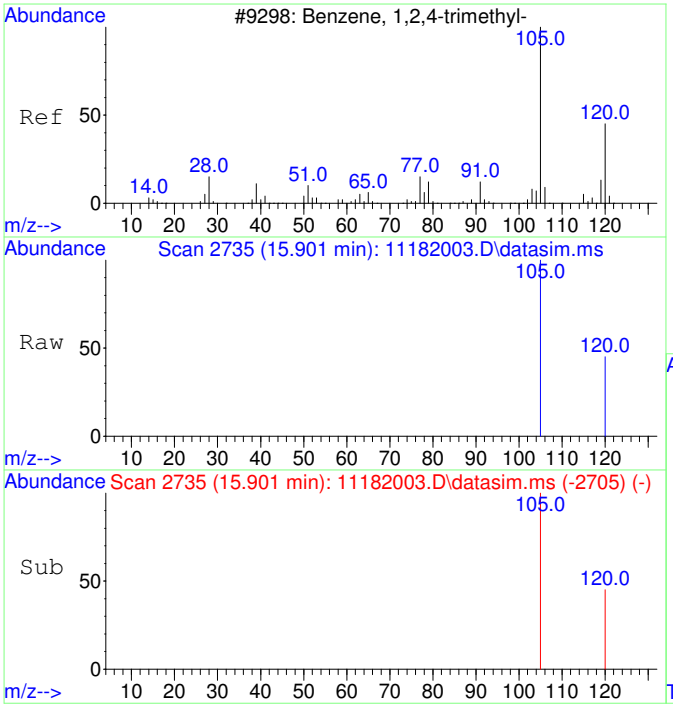


#22
1,3,5-Trimethylbenzene
Concen: 4557.58 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:105 Resp: 729771

Ion	Ratio	Lower	Upper
105	100		
120	49.2	21.1	81.1

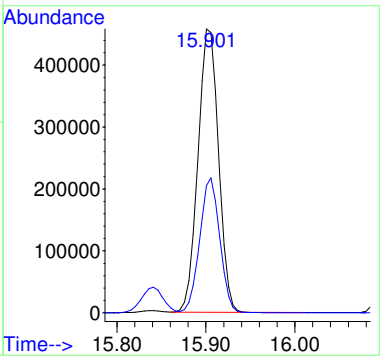


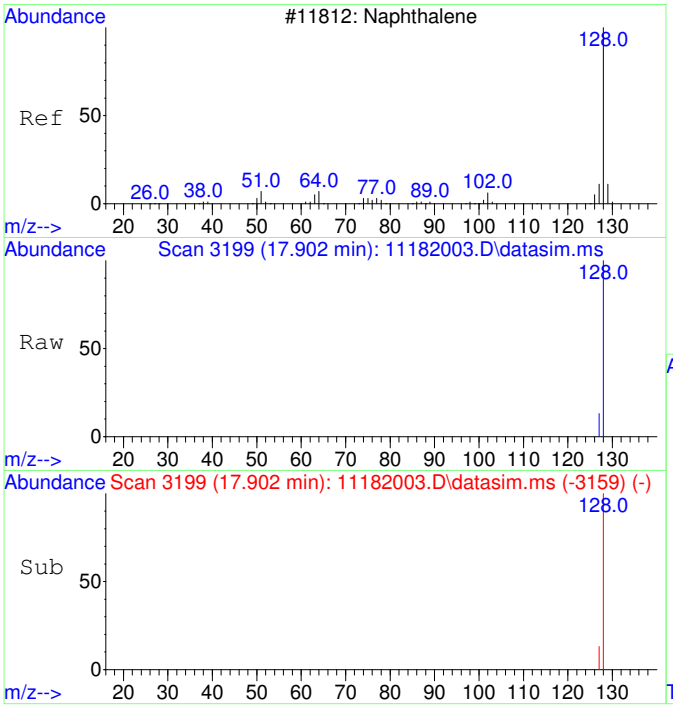


#23
1,2,4-Trimethylbenzene
Concen: 4422.36 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:105 Resp: 735522

Ion	Ratio	Lower	Upper
105	100		
120	45.4	17.2	77.2

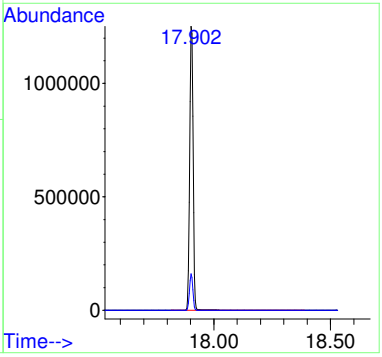


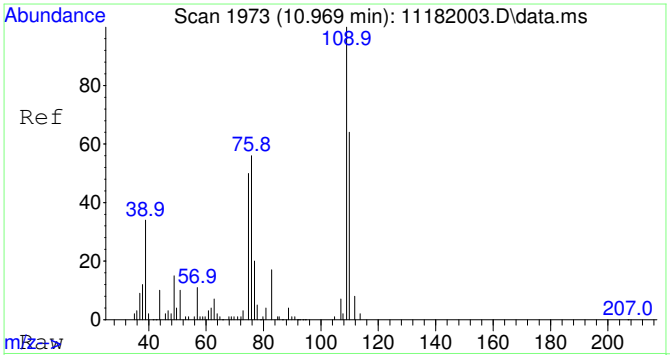


#24
Naphthalene
Concen: 4788.45 ug/L
RT: 17.902 min Scan# 3199
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:128 Resp: 1258725

Ion	Ratio	Lower	Upper
128	100		
127	12.4	0.0	42.5

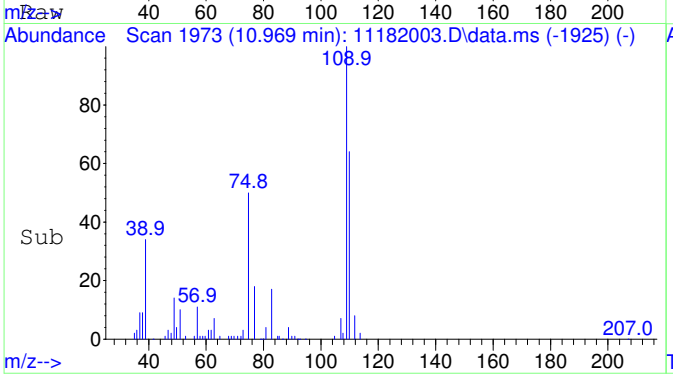


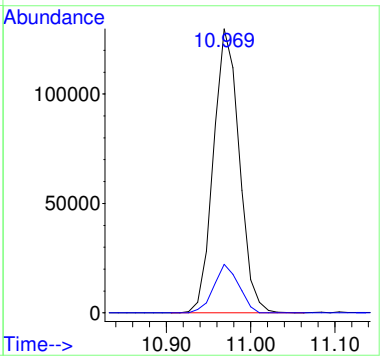


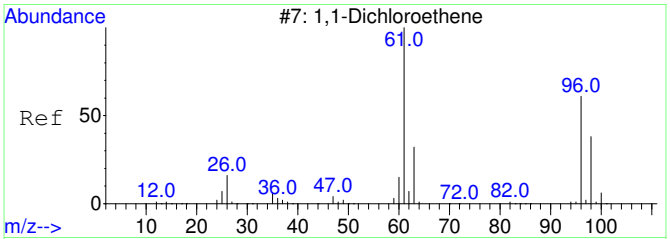
#25
2-Fluorotoluene SCAN
Concen: 4786.24 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:109 Resp: 276704

Ion	Ratio	Lower	Upper
109	100		
83	16.5	0.0	43.8



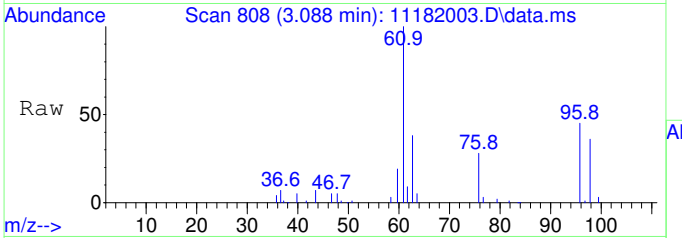


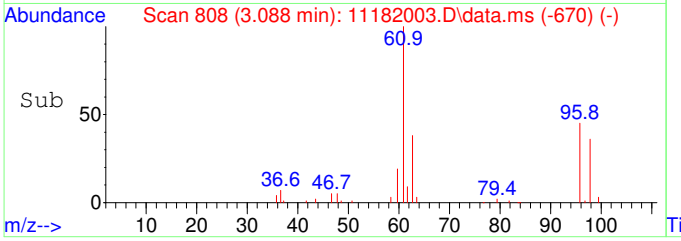


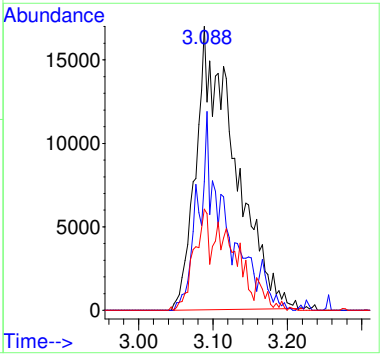
#26
1,1-Dichloroethene SCAN
Concen: 5055.69 ug/L
RT: 3.088 min Scan# 808
Delta R.T. 0.011 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

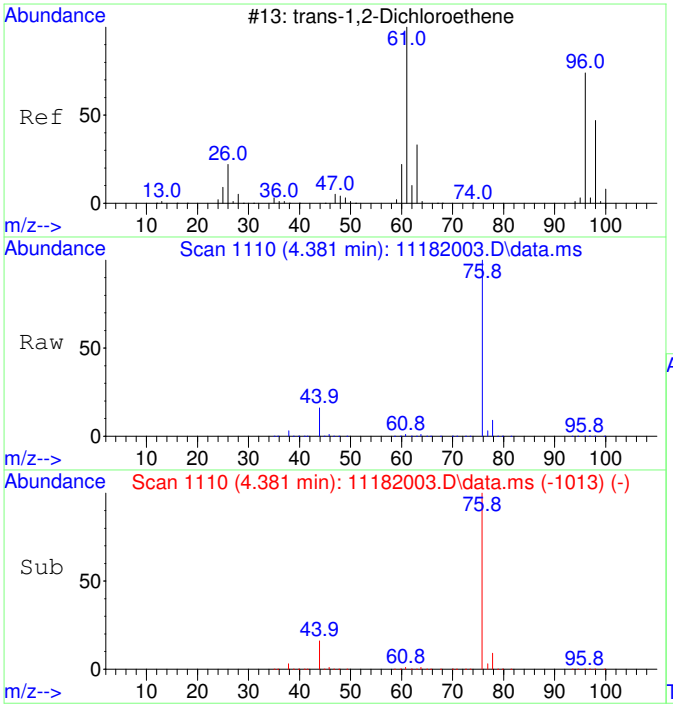
Tgt Ion: 61 Resp: 62072

Ion	Ratio	Lower	Upper
61	100		
96	10.0	33.1	93.1#
98	5.9	11.2	71.2#





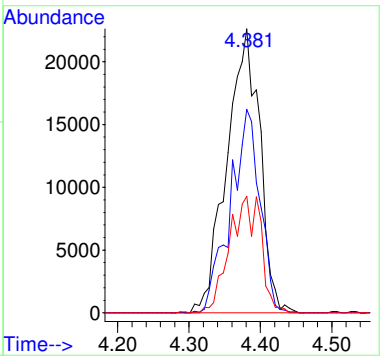


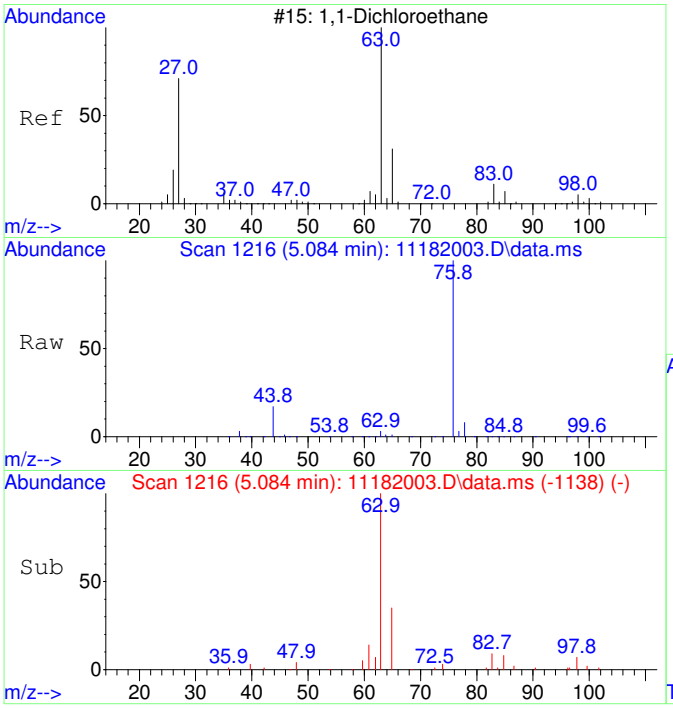


#27
trans-1,2-Dichloroethene SCAN
Concen: 4776.88 ug/L
RT: 4.381 min Scan# 1110
Delta R.T. 0.033 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 61 Resp: 72574

Ion	Ratio	Lower	Upper
61	100		
96	64.6	49.0	109.0
98	39.4	20.5	80.5

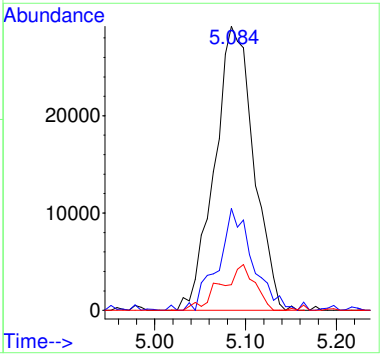


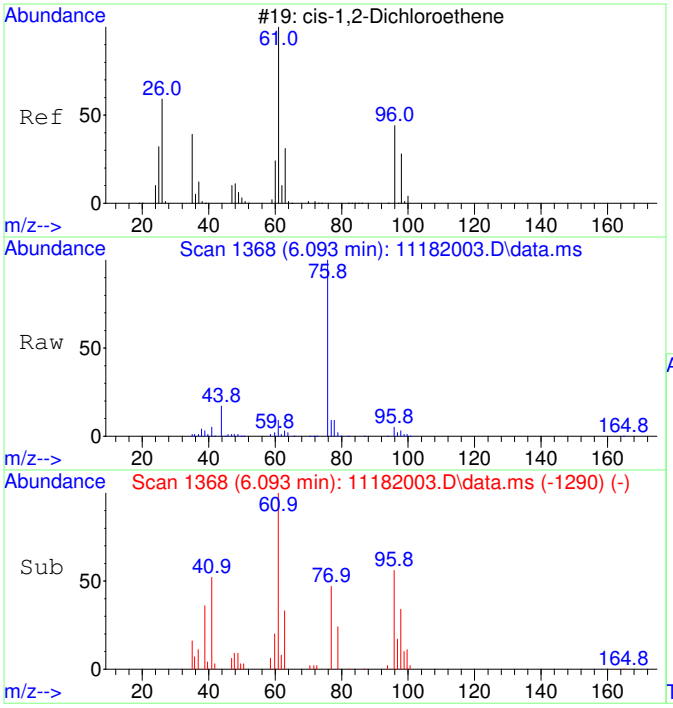


#28
1,1-Dichloroethane SCAN
Concen: 4969.72 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. 0.020 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 63 Resp: 87381

Ion	Ratio	Lower	Upper
63	100		
65	31.6	1.3	61.3
83	13.9	0.0	45.9

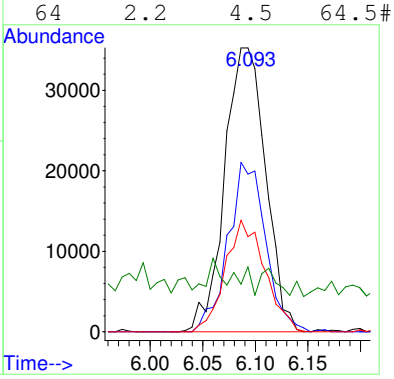


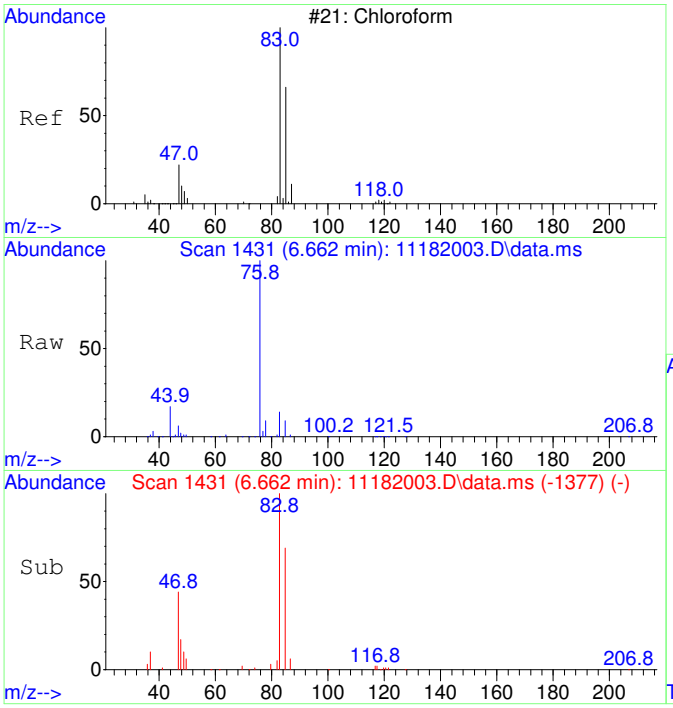


#29
cis-1,2-Dichloroethene SCAN
Concen: 5071.20 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 61 Resp: 95532

Ion	Ratio	Lower	Upper
61	100		
96	54.7	39.9	99.9
98	38.0	13.5	73.5
64	2.2	4.5	64.5#

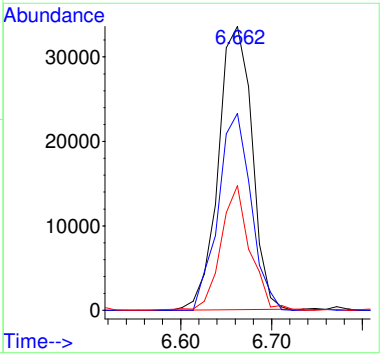


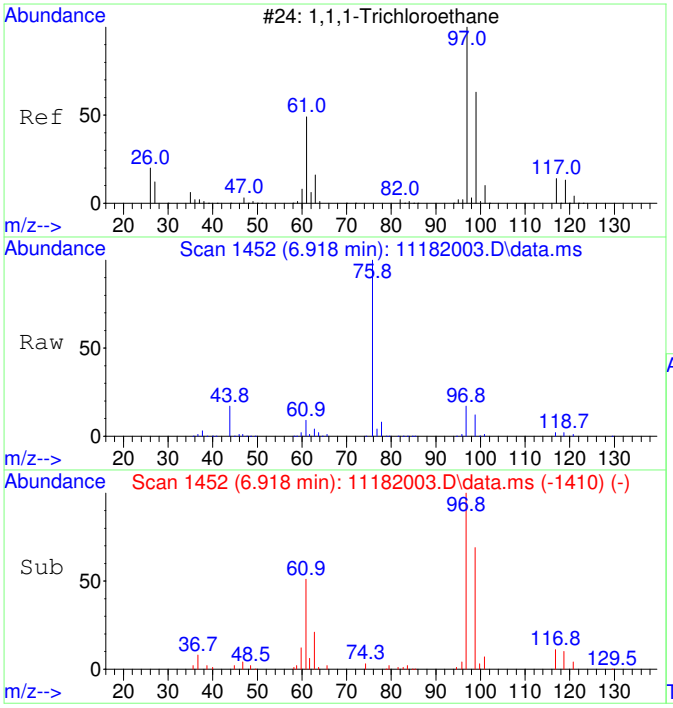


#30
Chloroform SCAN
Concen: 4231.57 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 83 Resp: 86462

Ion	Ratio	Lower	Upper
83	100		
85	68.0	34.6	94.6
47	38.2	0.0	53.4

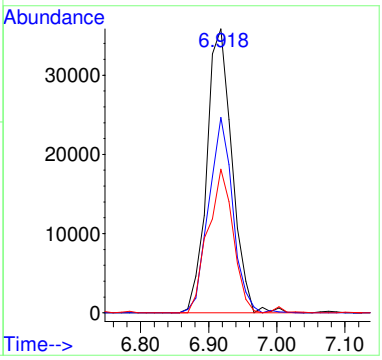


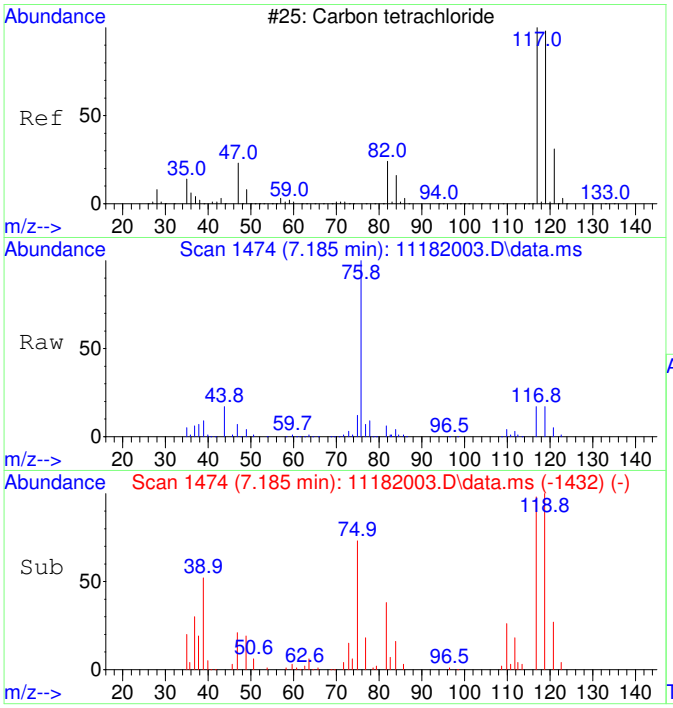


#31
1,1,1-Trichloroethane SCAN
Concen: 4964.75 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 97 Resp: 92443

Ion	Ratio	Lower	Upper
97	100		
99	65.9	43.6	103.6
61	50.5	18.0	78.0

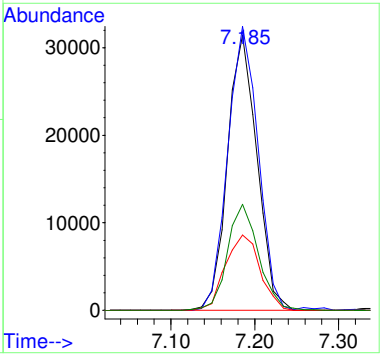


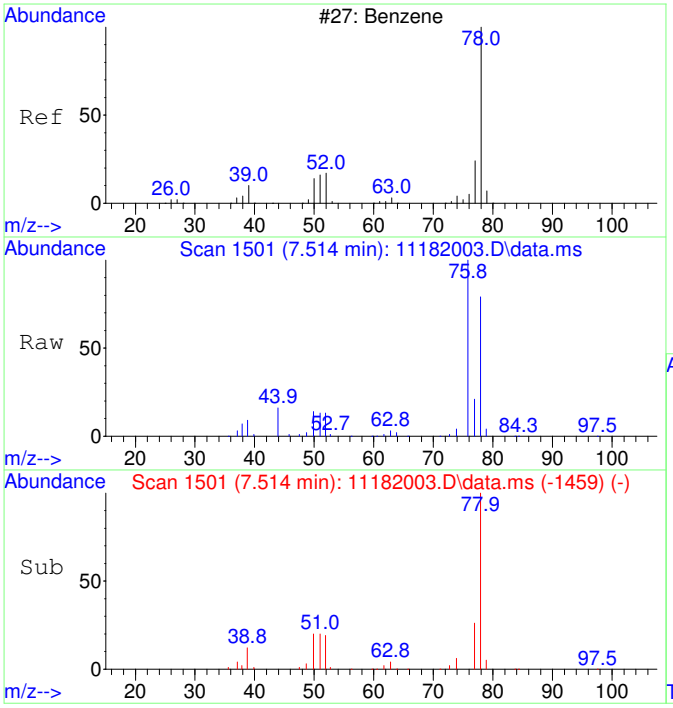


#32
Carbon tetrachloride SCAN
Concen: 3951.49 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:117 Resp: 76748

Ion	Ratio	Lower	Upper
117	100		
119	107.0	75.5	135.5
121	32.1	0.0	58.8
82	40.6	0.0	59.2

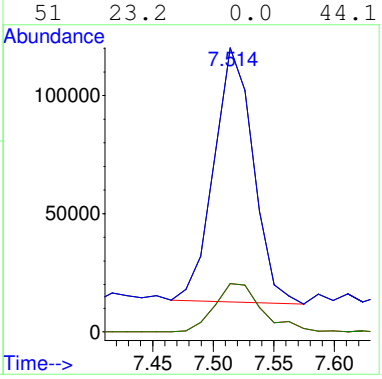


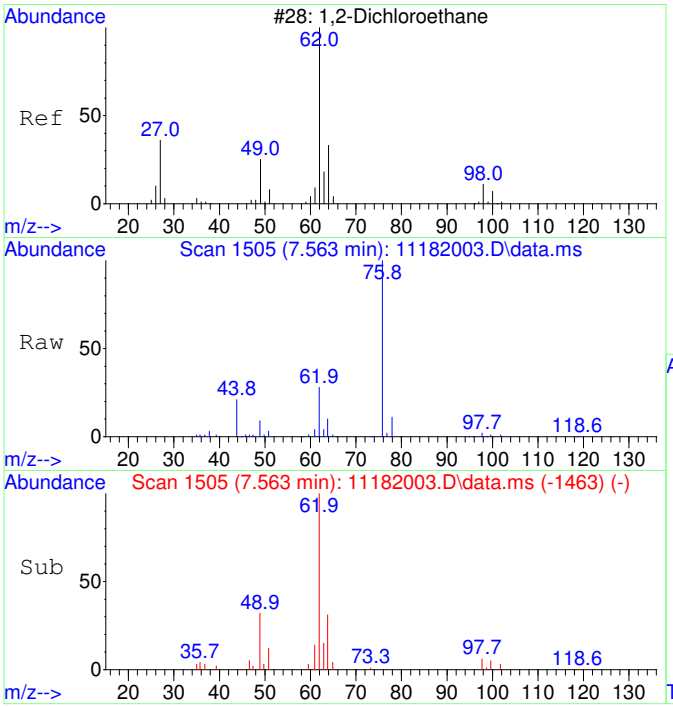


#33
Benzene SCAN
Concen: 4742.21 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 78 Resp: 243121

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	23.2	0.0	47.9
51	23.2	0.0	44.1

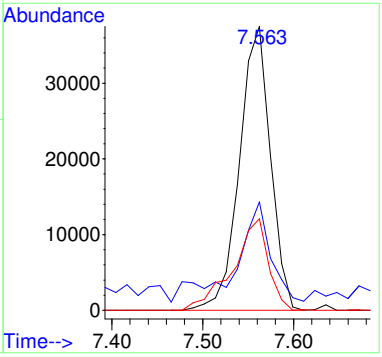


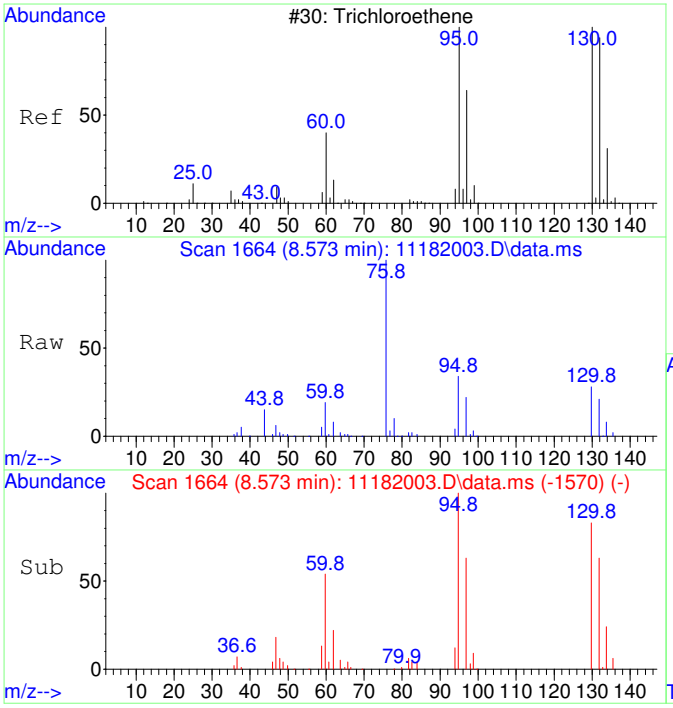


#34
1,2-Dichloroethane SCAN
Concen: 4701.79 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 62 Resp: 89008

Ion	Ratio	Lower	Upper
62	100		
64	26.7	5.2	65.2
49	37.0	3.9	63.9

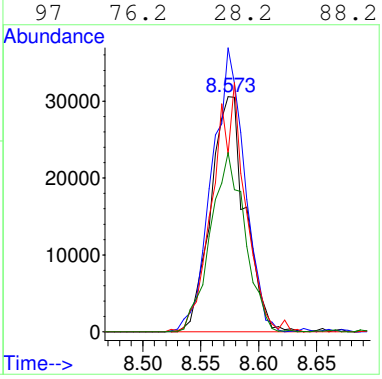


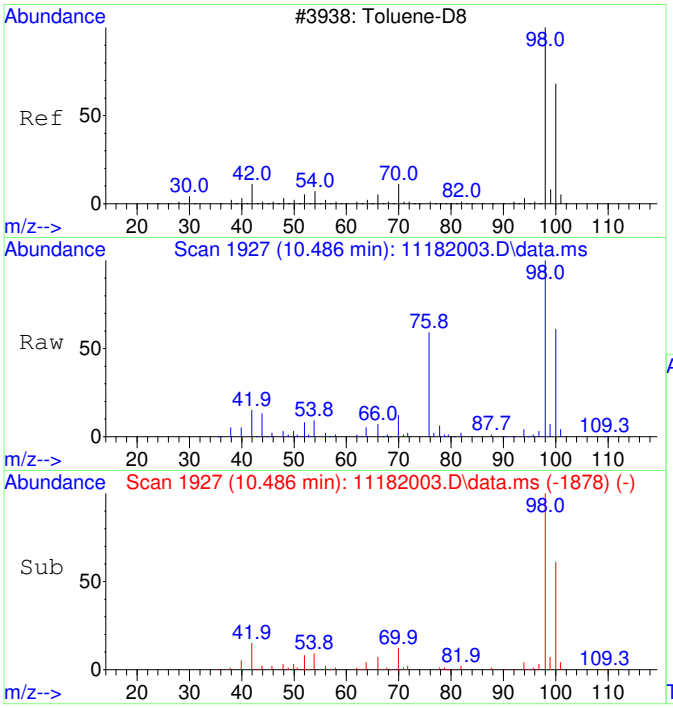


#35
Trichloroethene SCAN
Concen: 4520.88 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:130 Resp: 63693

Ion	Ratio	Lower	Upper
130	100		
95	114.6	60.5	120.5
132	99.3	59.6	119.6
97	76.2	28.2	88.2

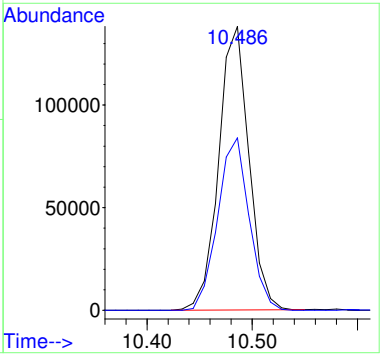


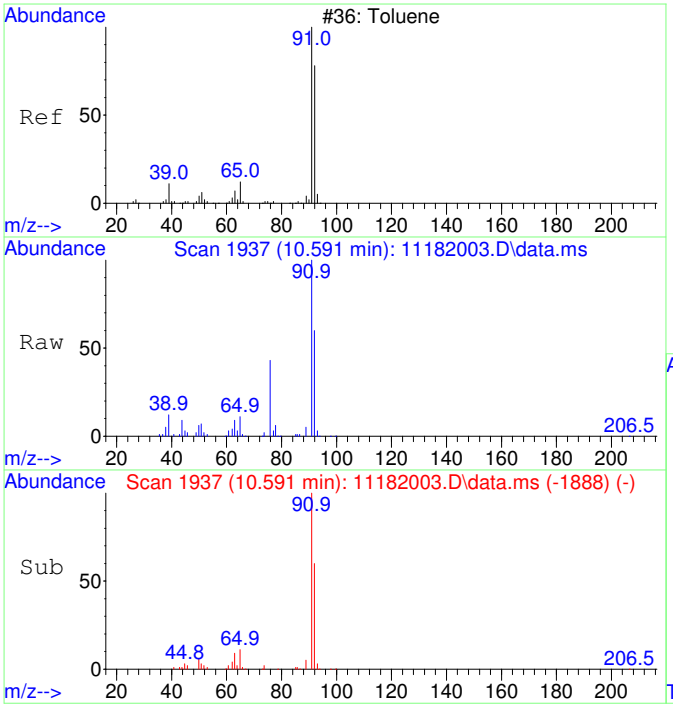


#36
Toluene-d8 SCAN
Concen: 4879.02 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 98 Resp: 275854

Ion	Ratio	Lower	Upper
98	100		
100	63.3	40.0	100.0

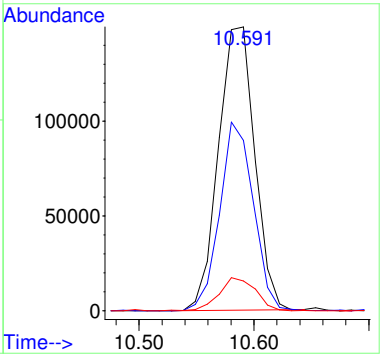


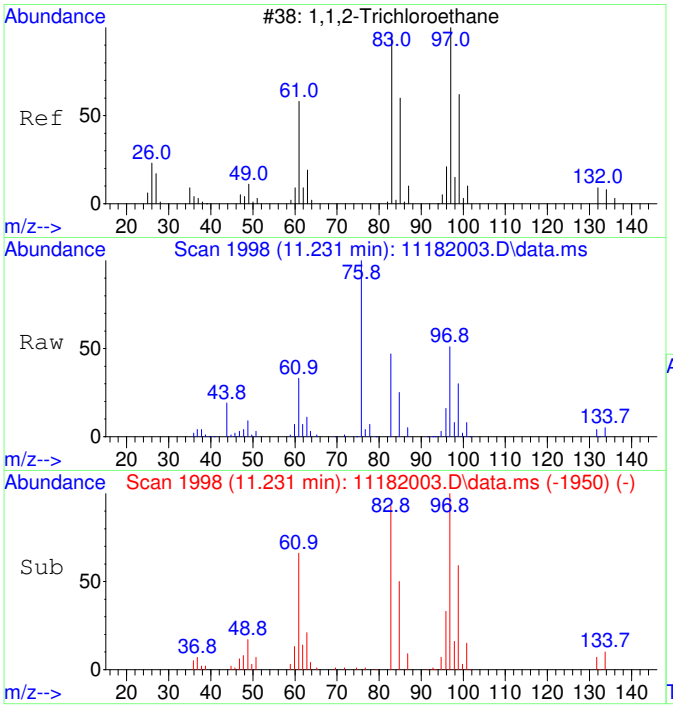


#37
Toluene SCAN
Concen: 4543.72 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 91 Resp: 328994

Ion	Ratio	Lower	Upper
91	100		
92	61.7	28.3	88.3
65	11.8	0.0	41.0

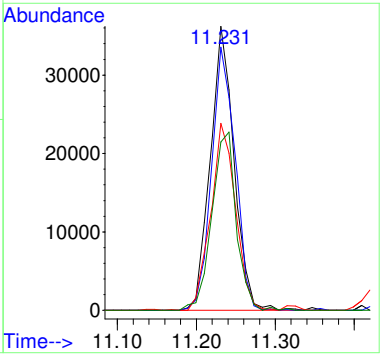


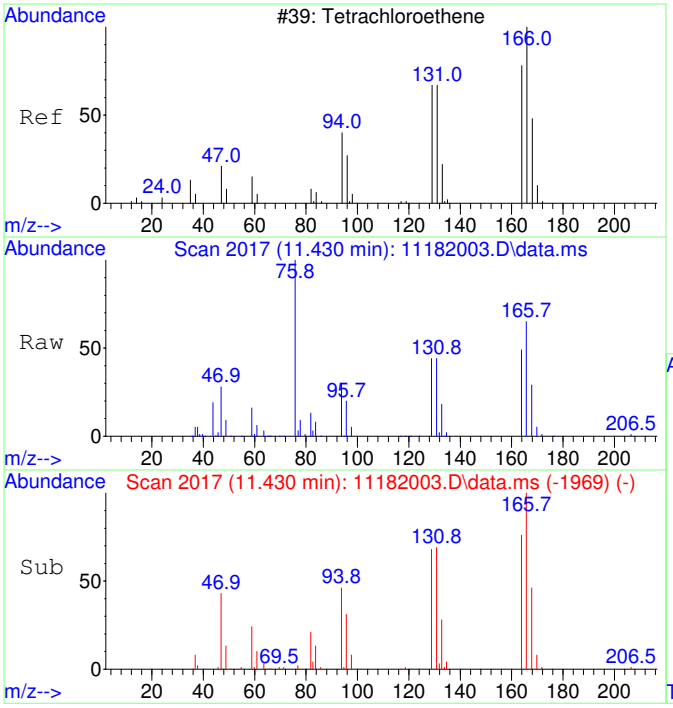


#38
1,1,2-Trichloroethane SCAN
Concen: 4659.75 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 97 Resp: 75731

Ion	Ratio	Lower	Upper
97	100		
83	92.2	57.7	117.7
61	68.5	32.1	92.1
99	64.5	36.7	96.7

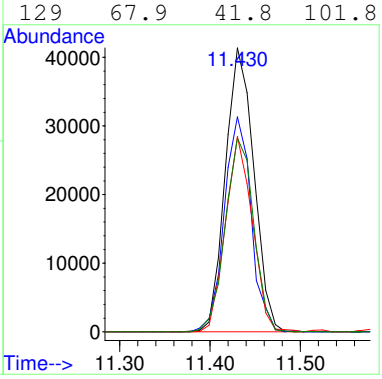


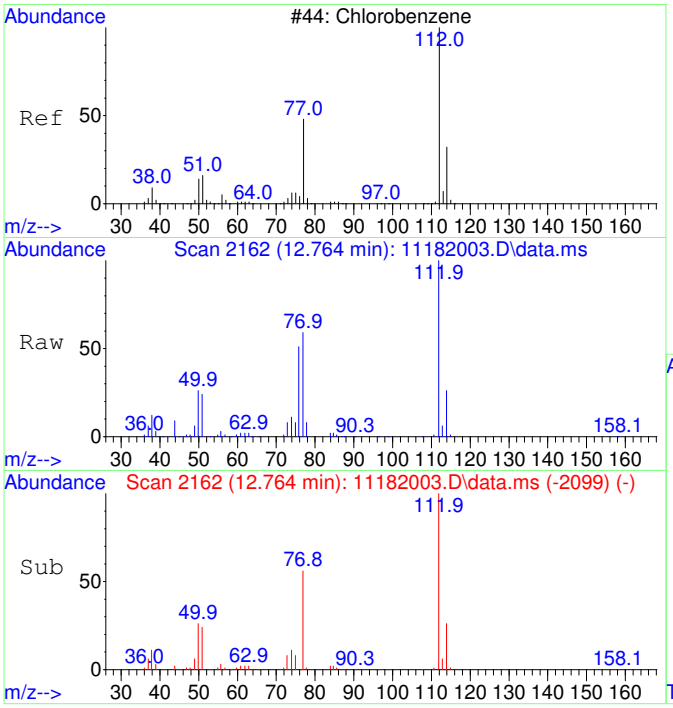


#39
Tetrachloroethene SCAN
Concen: 5228.34 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:166 Resp: 90949

Ion	Ratio	Lower	Upper
166	100		
164	71.2	50.9	110.9
131	64.7	38.7	98.7
129	67.9	41.8	101.8

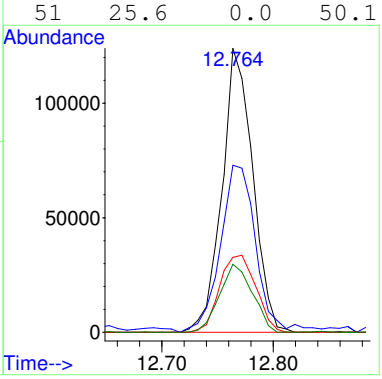


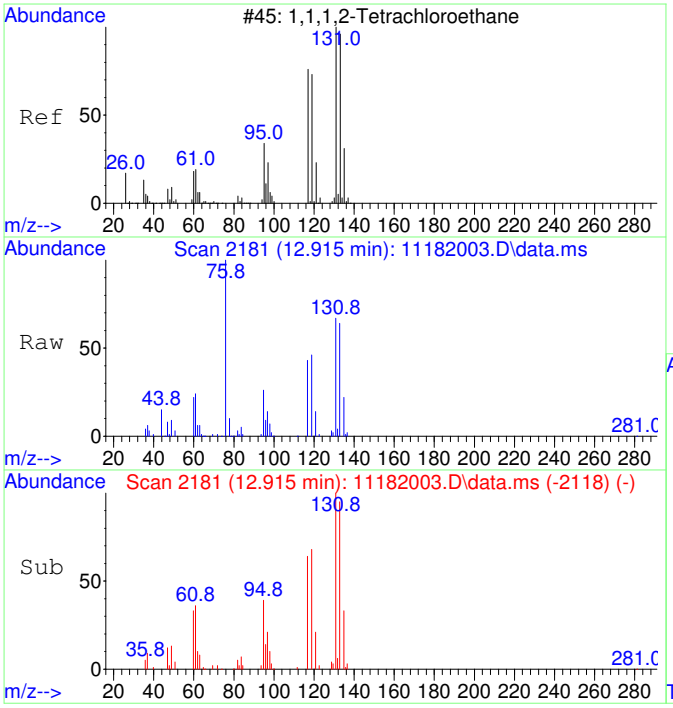


#40
Chlorobenzene SCAN
Concen: 4810.13 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:112 Resp: 237990

Ion	Ratio	Lower	Upper
112	100		
77	69.9	28.2	88.2
114	32.0	2.3	62.3
51	25.6	0.0	50.1

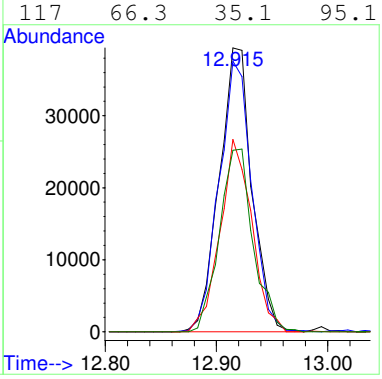


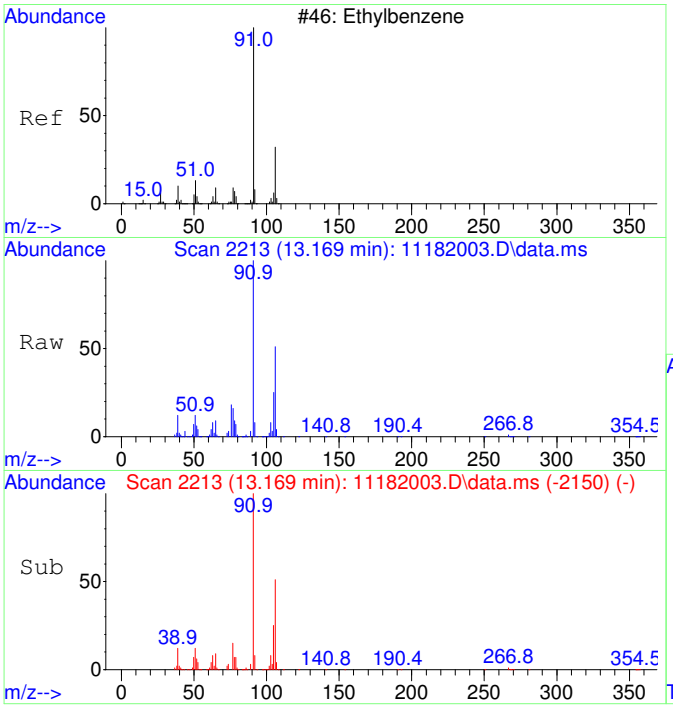


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 4417.67 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:131 Resp: 80889

Ion	Ratio	Lower	Upper
131	100		
133	95.4	66.9	126.9
119	65.5	40.4	100.4
117	66.3	35.1	95.1

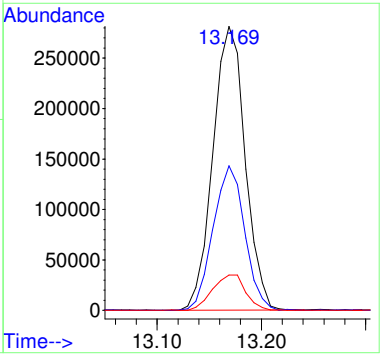


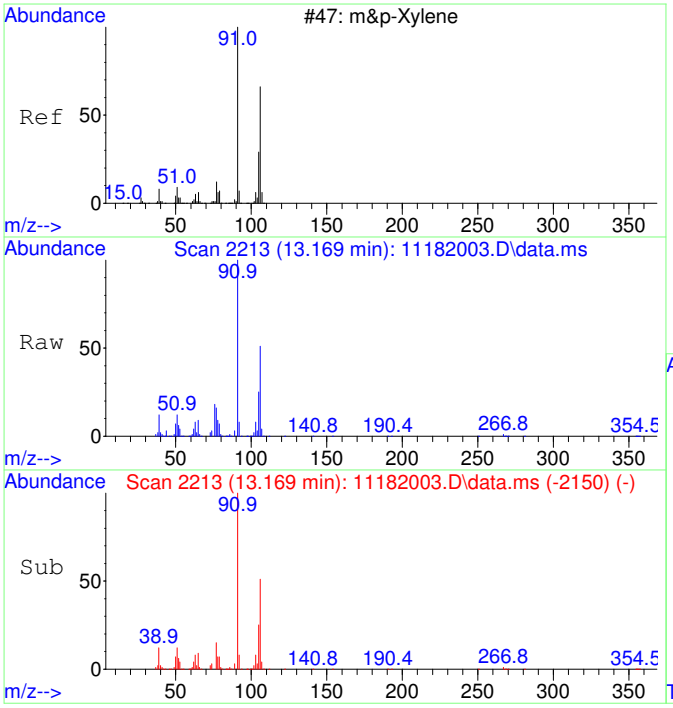


#42
Ethylbenzene SCAN
Concen: 4570.51 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 91 Resp: 602903

Ion	Ratio	Lower	Upper
91	100		
106	49.9	23.1	83.1
51	12.9	0.0	40.1

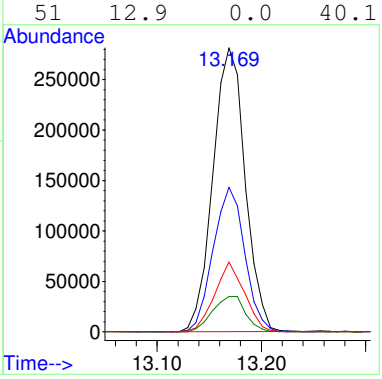


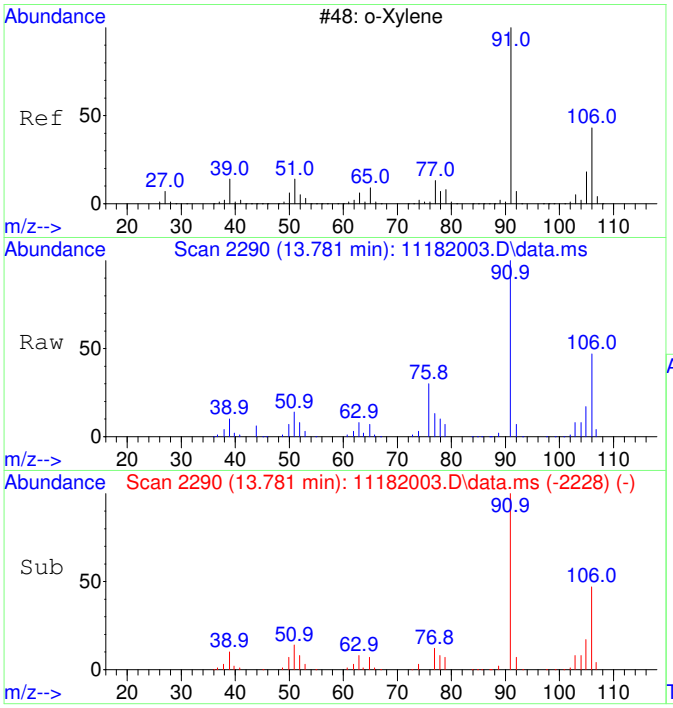


#43
m&p-Xylene SCAN
Concen: 4570.51 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 91 Resp: 602903

Ion	Ratio	Lower	Upper
91	100		
106	49.9	23.1	83.1
105	22.9	0.0	54.7
51	12.9	0.0	40.1

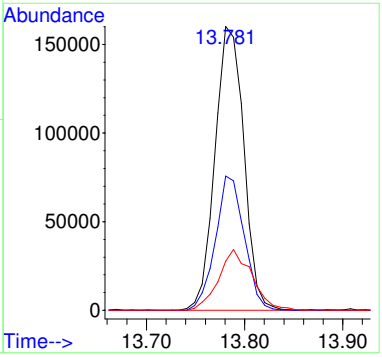


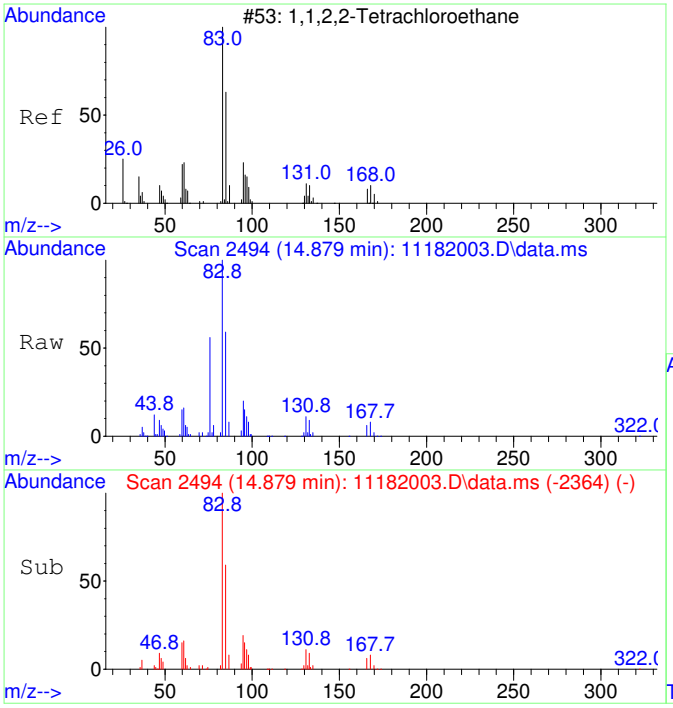


#44
o-Xylene SCAN
Concen: 4618.98 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 91 Resp: 326142

Ion	Ratio	Lower	Upper
91	100		
106	47.4	18.0	78.0
105	25.0	0.0	56.6

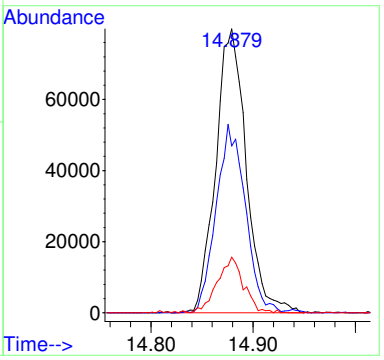


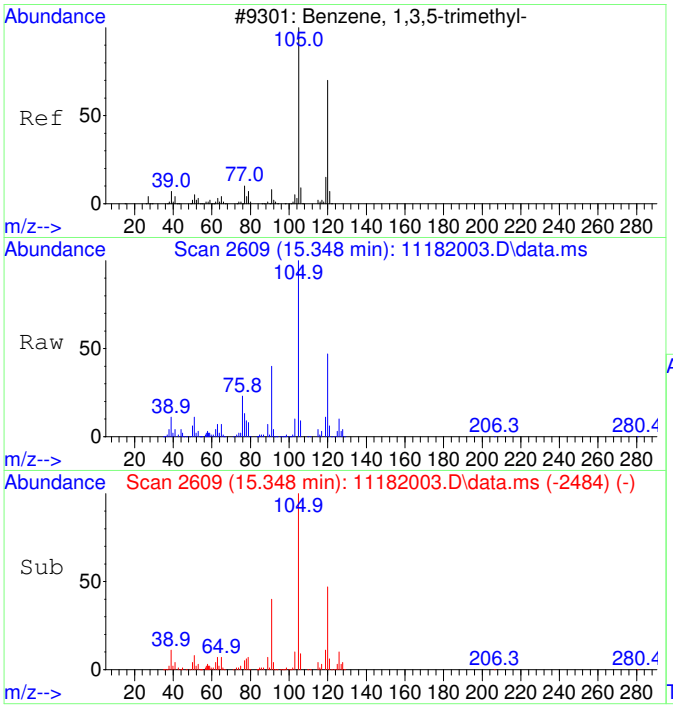


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 4809.85 ug/L
RT: 14.879 min Scan# 2494
Delta R.T. 0.007 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion: 83 Resp: 165603

Ion	Ratio	Lower	Upper
83	100		
85	62.5	35.9	95.9
95	16.8	0.0	47.4

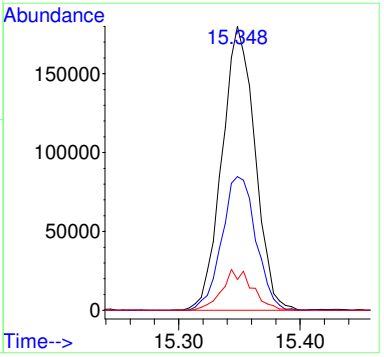


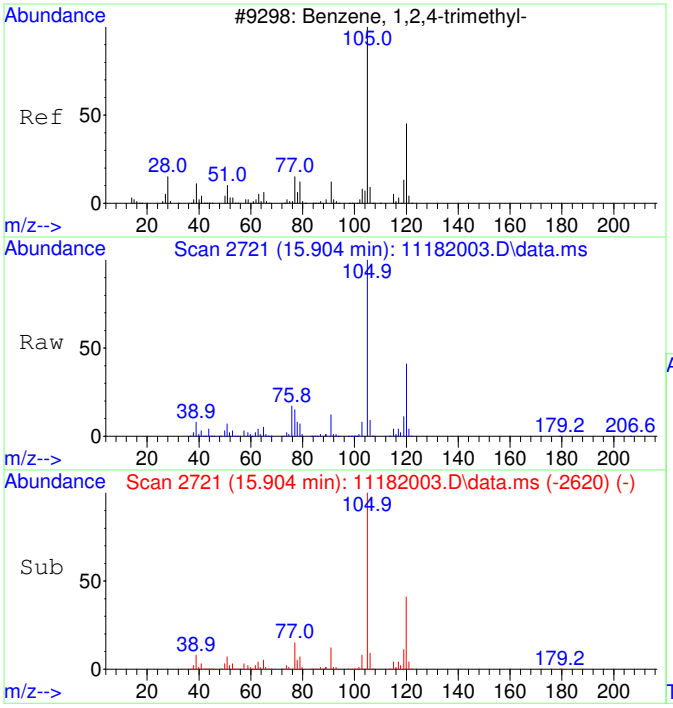


#46
1,3,5-Trimethylbenzene SCAN
Concen: 4570.74 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:105 Resp: 340131

Ion	Ratio	Lower	Upper
105	100		
120	48.7	18.3	78.3
119	13.3	0.0	43.1

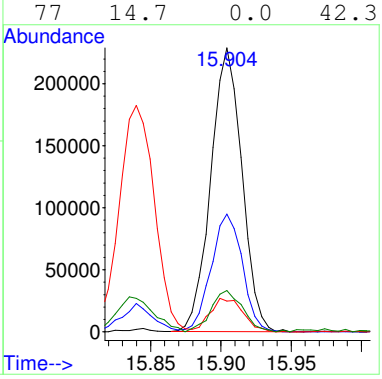


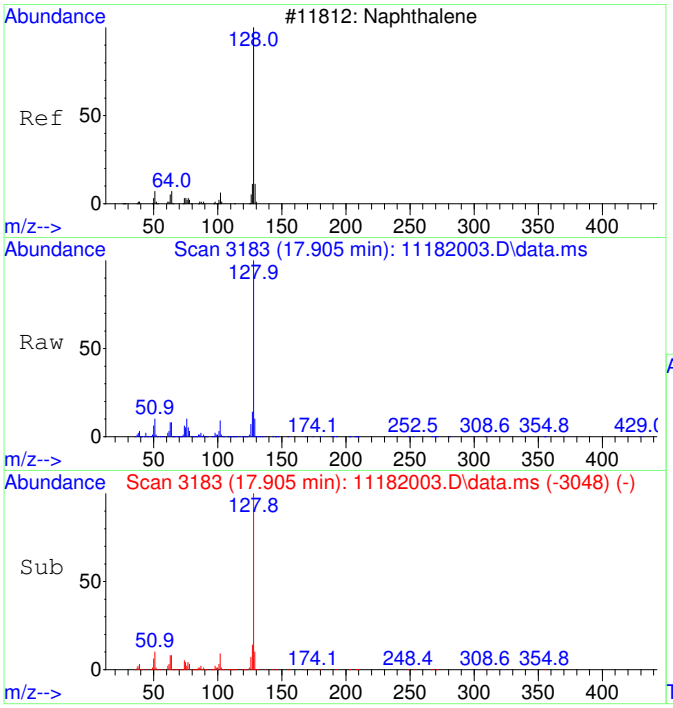


#47
1,2,4-Trimethylbenzene SCAN
Concen: 4627.40 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:105 Resp: 352343

Ion	Ratio	Lower	Upper
105	100		
120	40.6	16.9	76.9
119	11.4	0.0	41.9
77	14.7	0.0	42.3

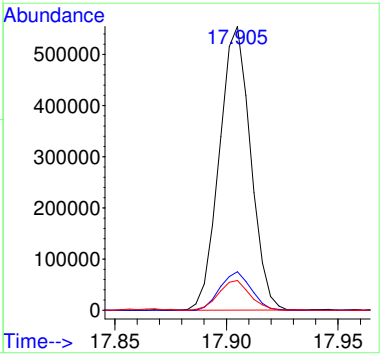




#48
Naphthalene SCAN
Concen: 4675.70 ug/L
RT: 17.905 min Scan# 3183
Delta R.T. -0.000 min
Lab File: 11182003.D
Acq: 18 Nov 2020 10:24

Tgt Ion:128 Resp: 538717

Ion	Ratio	Lower	Upper
128	100		
127	13.4	0.0	44.0
129	10.6	0.0	40.8



S20K077-CRL1

QLS REPORT

Instrument Name: AG5975C
Sample Name: S20K077-CRL1
Misc Info: 2030073 0.05 mg/L
Date Acquired: 11/18/20 10:49
QLast Update: Mon Nov 16 10:20:51 2020
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.970	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.086	50.0	43.61	87%	60	140	pass
3)	trans-1,2-Dichloroethene	4.343	50.0	44.85	90%	60	140	pass
4)	1,1-Dichloroethane	5.066	50.0	46.62	93%	60	140	pass
5)	cis-1,2-Dichloroethene	6.074	50.0	44.62	89%	60	140	pass
6)	Chloroform	6.639	50.0	44.42	89%	60	140	pass
7)	1,1,1-Trichloroethane	6.907	50.0	43.07	86%	60	140	pass
8)	Carbon tetrachloride	7.175	50.0	43.93	88%	60	140	pass
10)	1,2-Dichloroethane	7.540	50.0	45.02	90%	60	140	pass
11)	Trichloroethene	8.564	50.0	47.72	95%	60	140	pass
12)	Toluene-d8	10.477	50.0	49.53	99%	60	140	pass
13)	Toluene	10.571	50.0	50.56	101%	60	140	pass
14)	1,1,2-Trichloroethane	11.222	50.0	48.46	97%	60	140	pass
15)	Tetrachloroethene	11.432	50.0	49.82	100%	60	140	pass
16)	Chlorobenzene	12.765	50.0	52.40	105%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.916	50.0	49.91	100%	60	140	pass
18)	Ethylbenzene	12.972	50.0	52.93	106%	60	140	pass
19)	m&p-Xylene	13.163	100.0	104.95	105%	60	140	pass
20)	o-Xylene	13.782	50.0	52.79	106%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.877	50.0	53.11	106%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.345	50.0	55.49	111%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.901	50.0	53.69	107%	60	140	pass
24)	Naphthalene	17.903	50.0	56.32	113%	60	140	pass

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182004.D
Acq On : 18 Nov 2020 10:49
InstName : AG5975C
Operator : TD
Sample : S20K077-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 18 11:07:51 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

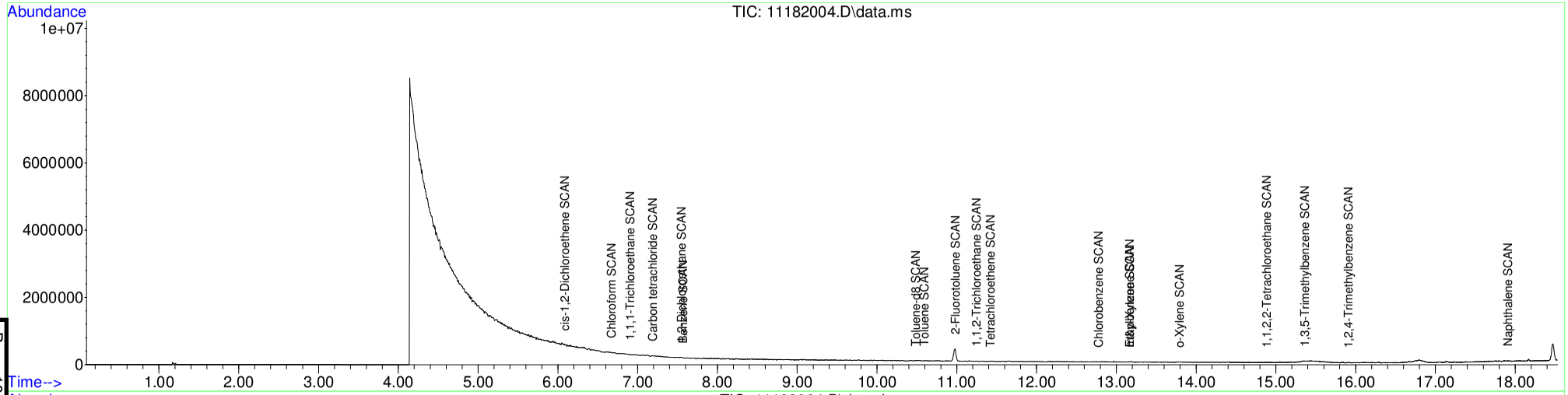
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	623004	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	6041	49.53	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	1598	64.23	ug/L	82
3] trans-1,2-Dichloroethene	4.369	61	1289	44.85	ug/L	51
4] 1,1-Dichloroethane	5.086	63	1668	46.62	ug/L	76
5] cis-1,2-Dichloroethene	6.088	61	1685	44.62	ug/L	97
6] Chloroform	6.652	83	1717	44.42	ug/L	99
7] 1,1,1-Trichloroethane	6.919	97	1808	43.07	ug/L	98
8] Carbon tetrachloride	7.187	117	1736	43.93	ug/L	99
9] Benzene	7.515	78	4454	42.08	ug/L #	1
10] 1,2-Dichloroethane	7.552	62	1701	45.02	ug/L #	28
11] Trichloroethene	8.575	130	1521	47.72	ug/L	91
13] Toluene	10.582	91	7861	50.56	ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	1642	48.46	ug/L	97
15] Tetrachloroethene	11.432	166	2242	49.82	ug/L	95
16] Chlorobenzene	12.765	112	5834	52.40	ug/L	91
17] 1,1,1,2-Tetrachloroethane	12.916	131	1991	49.91	ug/L	97
18] Ethylbenzene	12.972	91	10017	52.93	ug/L	94
19] m&p-Xylene	13.170	91	15524	104.95	ug/L	93
20] o-Xylene	13.782	91	8342	52.79	ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.877	83	3720	53.11	ug/L	99
22] 1,3,5-Trimethylbenzene	15.350	105	9334	55.49	ug/L	99
23] 1,2,4-Trimethylbenzene	15.906	105	9381	53.69	ug/L	96
24] Naphthalene	17.903	128	15551	56.32	ug/L	98
25) 2-Fluorotoluene SCAN	10.979	109	304957	5021.41	ug/L	99
29) cis-1,2-Dichloroethene...	6.086	61	1269	64.13	ug/L #	27
30) Chloroform SCAN	6.675	83	865	40.30	ug/L #	82
31) 1,1,1-Trichloroethane ...	6.906	97	428	21.88	ug/L #	39
32) Carbon tetrachloride SCAN	7.185	117	665	32.59	ug/L #	35
33) Benzene SCAN	7.563	78	17713	328.90	ug/L	91
34) 1,2-Dichloroethane SCAN	7.550	62	1494	75.13	ug/L #	23
36) Toluene-d8 SCAN	10.486	98	2620	44.11	ug/L	66
37) Toluene SCAN	10.591	91	6538	85.96	ug/L #	77
38) 1,1,2-Trichloroethane ...	11.242	97	1223	71.63	ug/L #	23
39) Tetrachloroethene SCAN	11.420	166	516	28.24	ug/L #	25
40) Chlorobenzene SCAN	12.772	112	3138	60.38	ug/L #	41
42) Ethylbenzene SCAN	13.169	91	7969	57.51	ug/L	87
43) m&p-Xylene SCAN	13.169	91	7969	57.51	ug/L	90
44) o-Xylene SCAN	13.789	91	4304	58.03	ug/L #	69
45) 1,1,2,2-Tetrachloroeth...	14.883	83	1904	52.64	ug/L #	40
46) 1,3,5-Trimethylbenzene...	15.358	105	5434	69.51	ug/L	61
47) 1,2,4-Trimethylbenzene...	15.909	105	5891	73.65	ug/L	70
48) Naphthalene SCAN	17.905	128	8090	66.84	ug/L	86

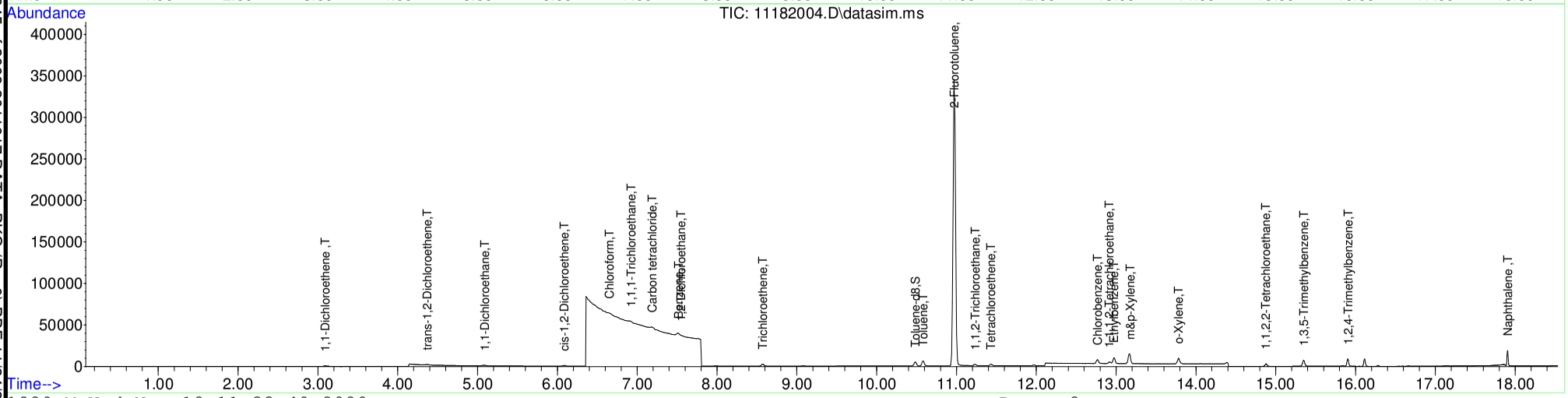
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182004.D
Acq On : 18 Nov 2020 10:49
InstName : AG5975C
Operator : TD
Sample : S20K077-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 18 11:07:51 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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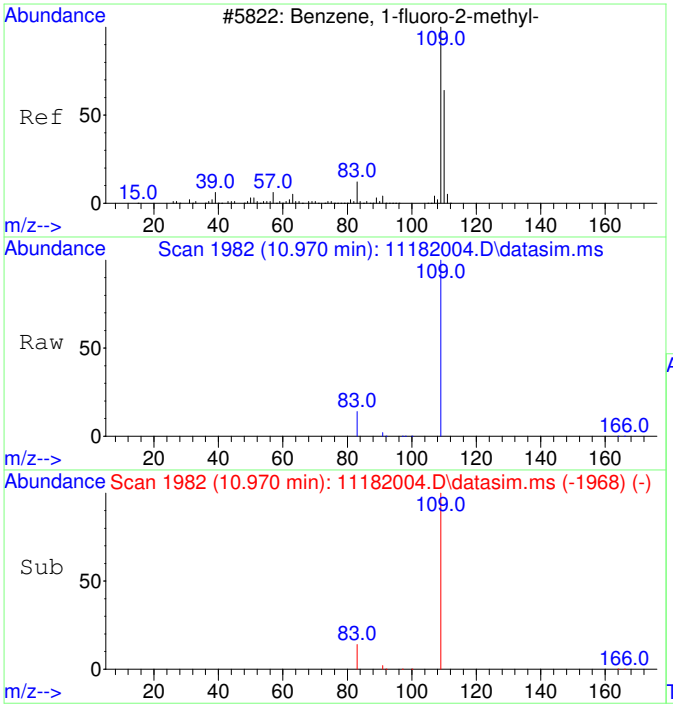
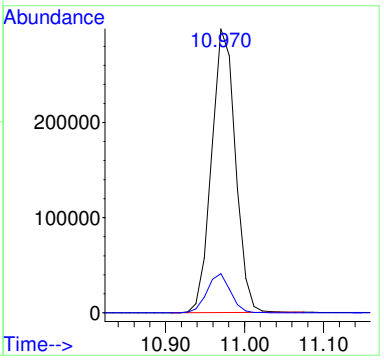
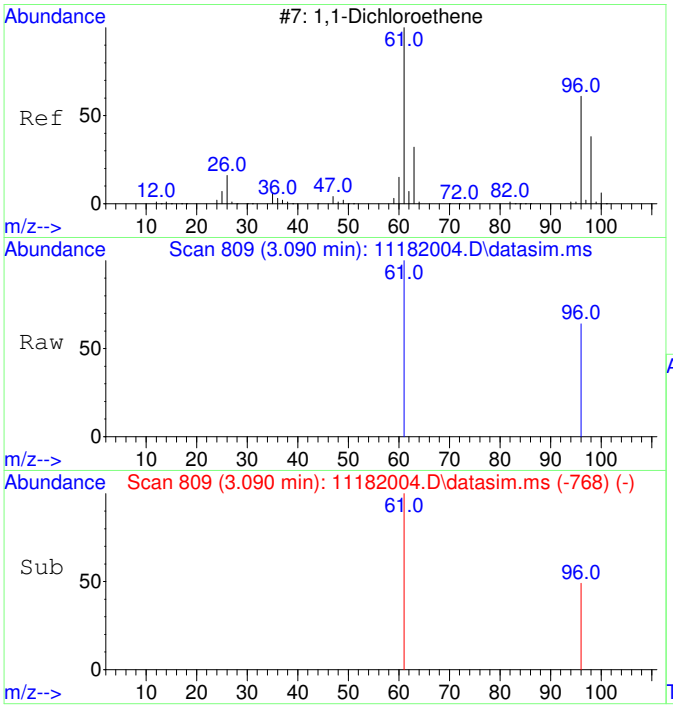


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:109 Resp: 623004

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

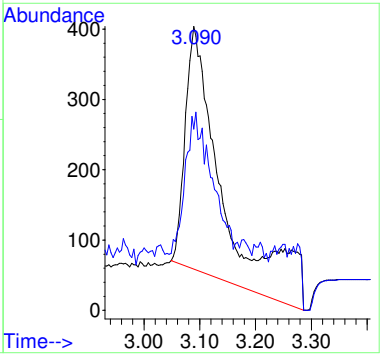




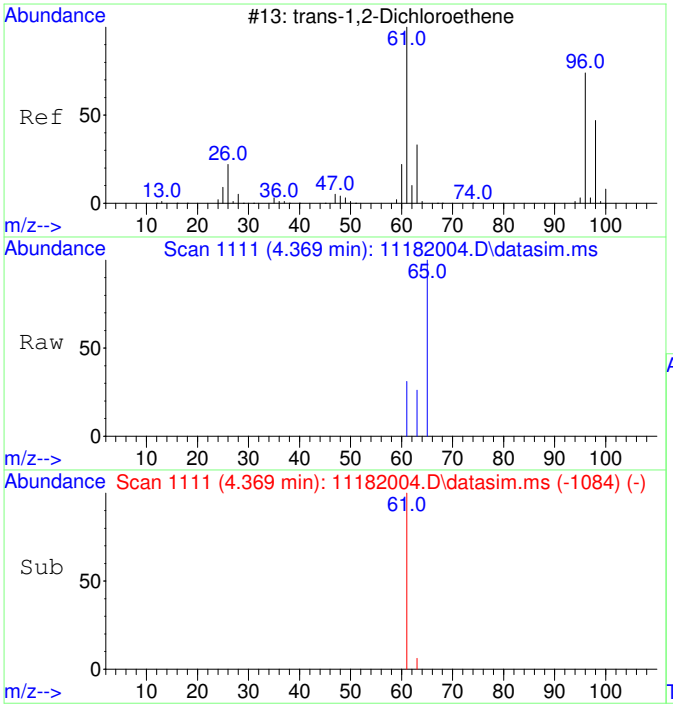
#2
1,1-Dichloroethene
Concen: 64.23 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 61 Resp: 1598

Ion	Ratio	Lower	Upper
61	100		
96	53.1	37.2	97.2



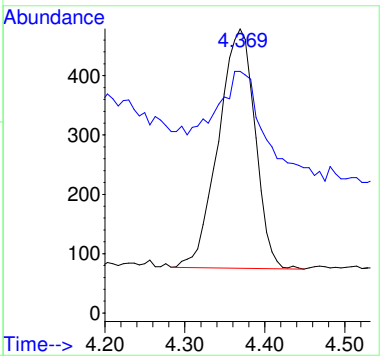
Before MI:
IMPROPER
BASELINE

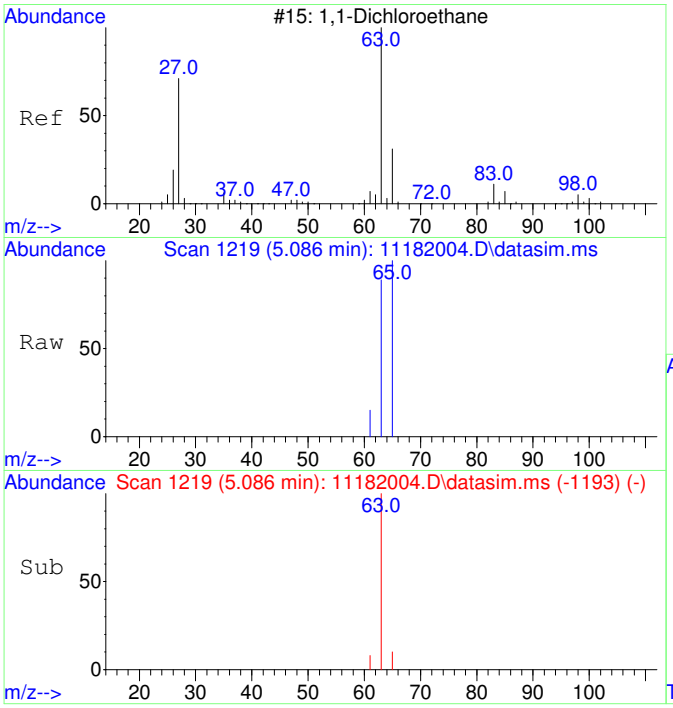


#3
trans-1,2-Dichloroethene
Concen: 44.85 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. 0.026 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 61 Resp: 1289

Ion	Ratio	Lower	Upper
61	100		
63	59.8	2.4	62.4

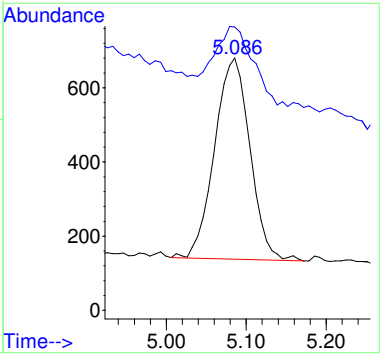


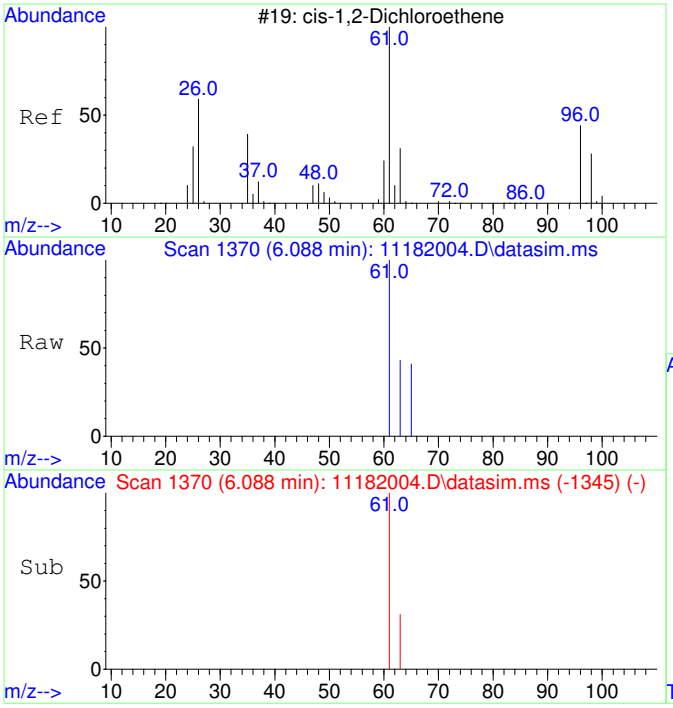


#4
1,1-Dichloroethane
Concen: 46.62 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 63 Resp: 1668

Ion	Ratio	Lower	Upper
63	100		
65	45.1	1.8	61.8

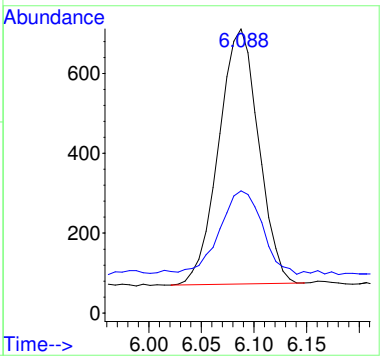


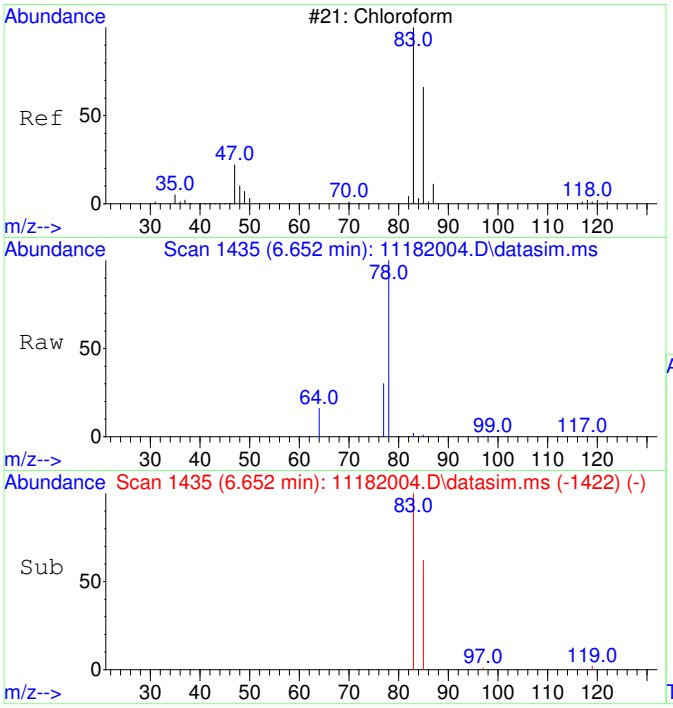


#5
cis-1,2-Dichloroethene
Concen: 44.62 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 61 Resp: 1685

Ion	Ratio	Lower	Upper
61	100		
63	34.2	2.5	62.5

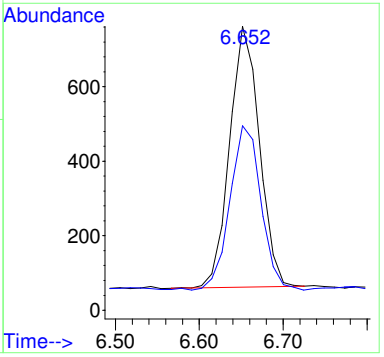


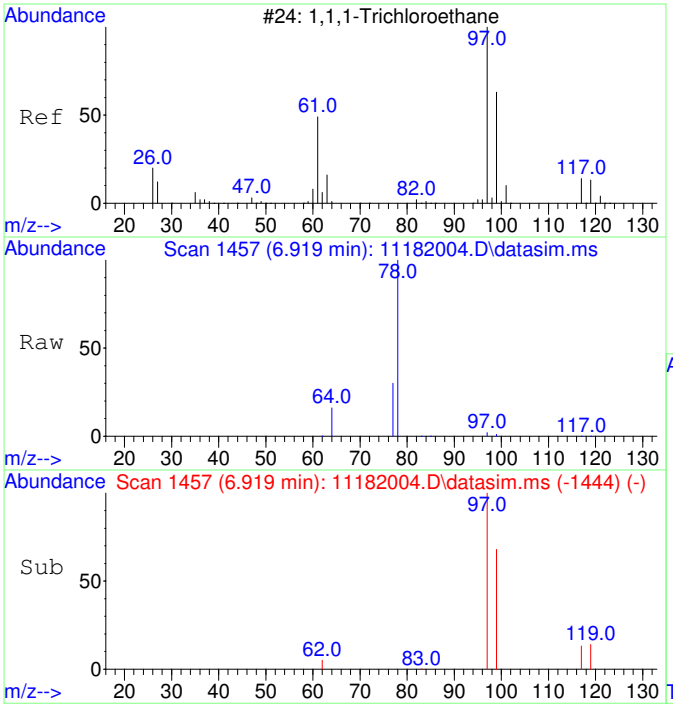


#6
Chloroform
Concen: 44.42 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 1717

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.1	95.1

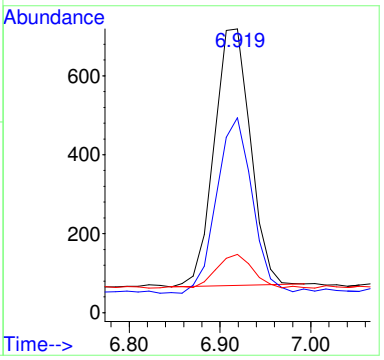


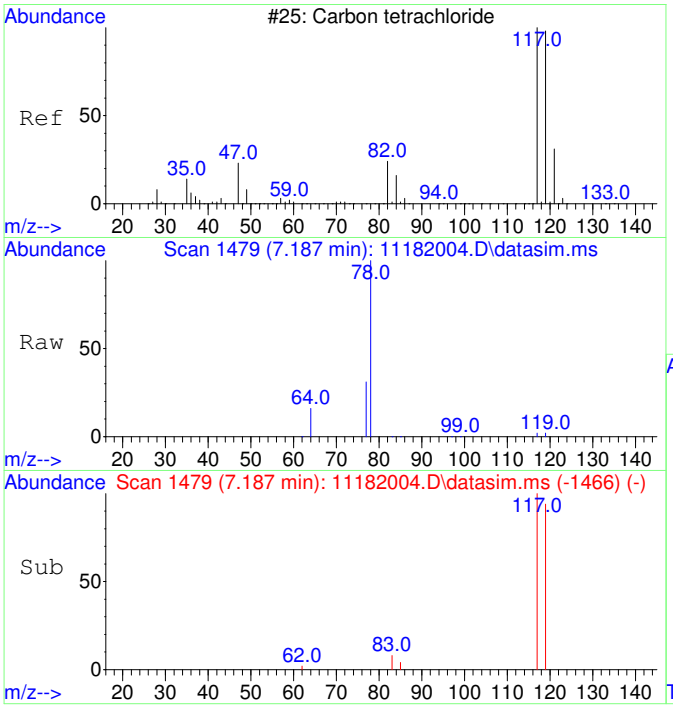


#7
1,1,1-Trichloroethane
Concen: 43.07 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 1808

Ion	Ratio	Lower	Upper
97	100		
99	66.3	34.6	94.6
117	13.8	0.0	43.2

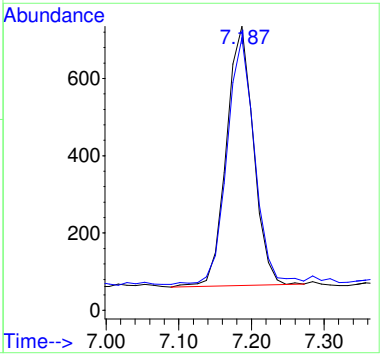


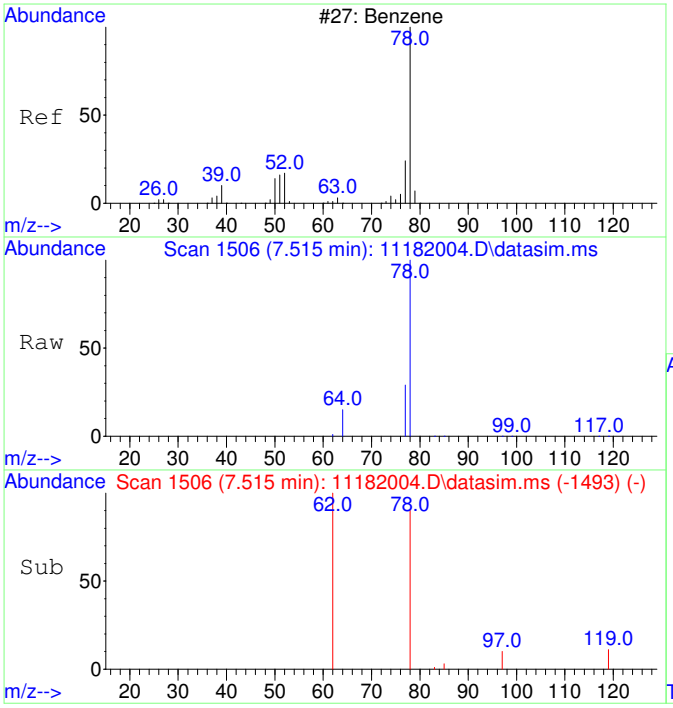


#8
Carbon tetrachloride
Concen: 43.93 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:117 Resp: 1736

Ion	Ratio	Lower	Upper
117	100		
119	97.4	66.4	126.4

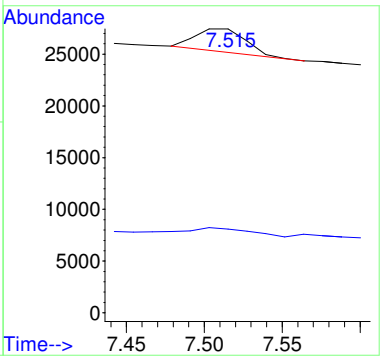


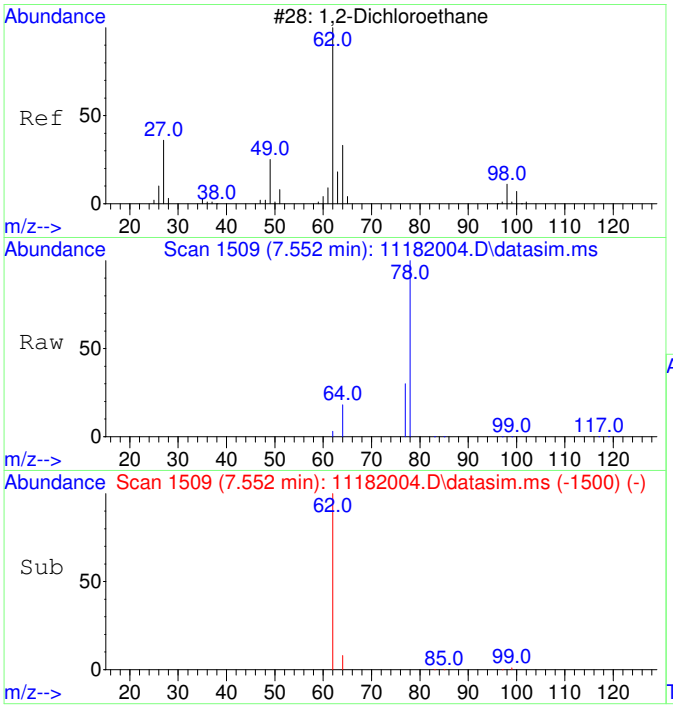


#9
Benzene
Concen: 42.08 ug/L
RT: 7.515 min Scan# 1506
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 78 Resp: 4454

Ion	Ratio	Lower	Upper
78	100		
77	89.1	0.0	53.2#

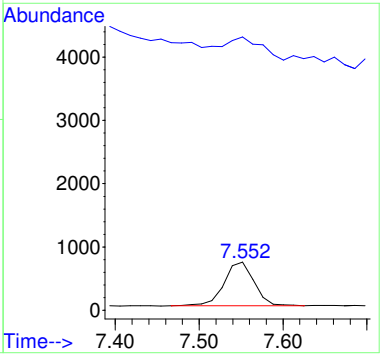


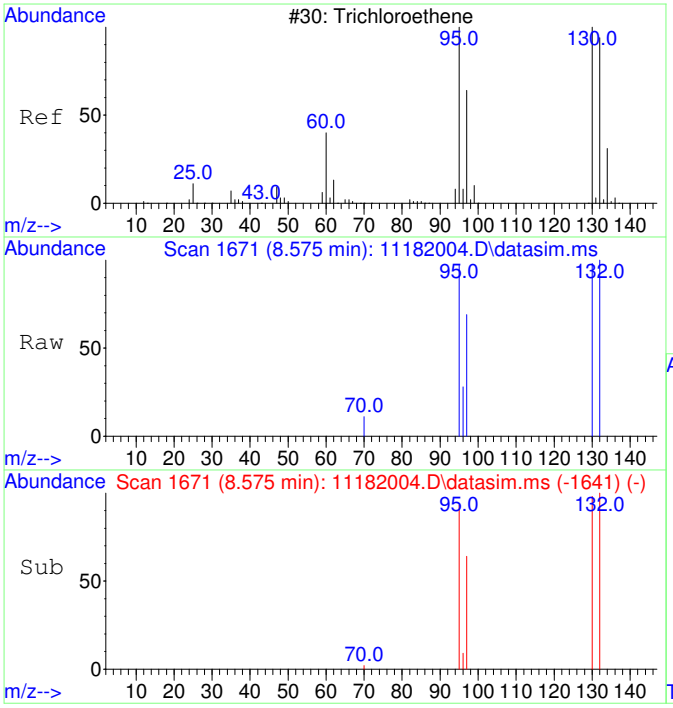


#10
1,2-Dichloroethane
Concen: 45.02 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 62 Resp: 1701

Ion	Ratio	Lower	Upper
62	100		
64	72.8	2.3	62.3#

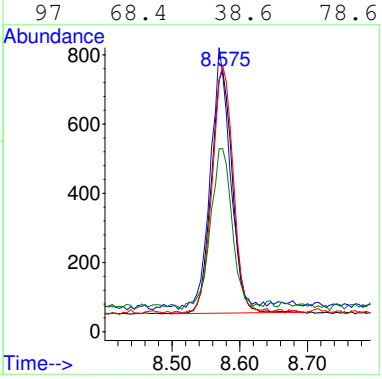


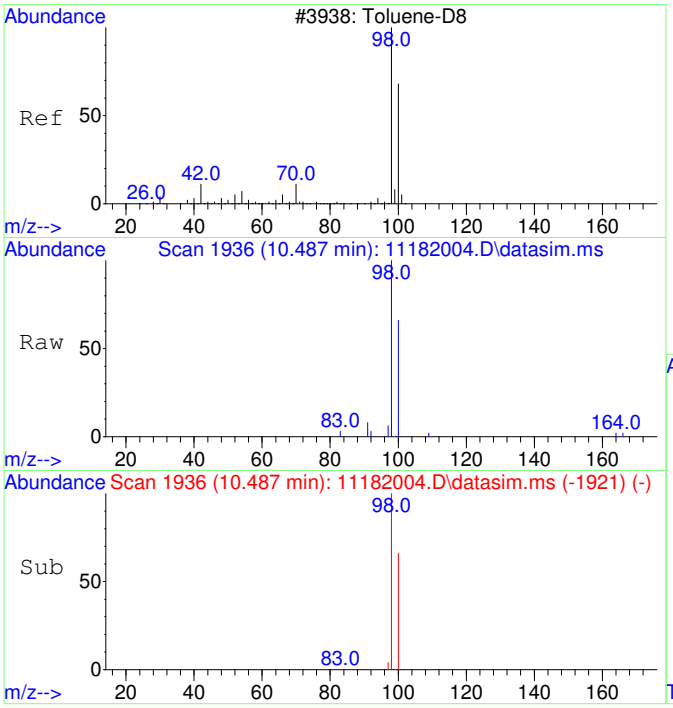


#11
Trichloroethene
Concen: 47.72 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:130 Resp: 1521

Ion	Ratio	Lower	Upper
130	100		
95	101.4	60.7	120.7
132	101.1	76.0	116.0
97	68.4	38.6	78.6

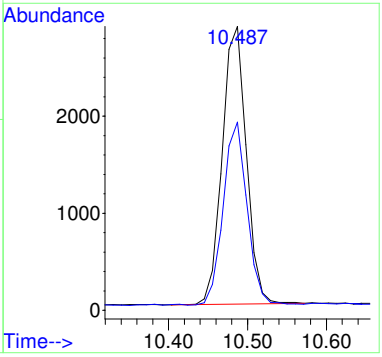


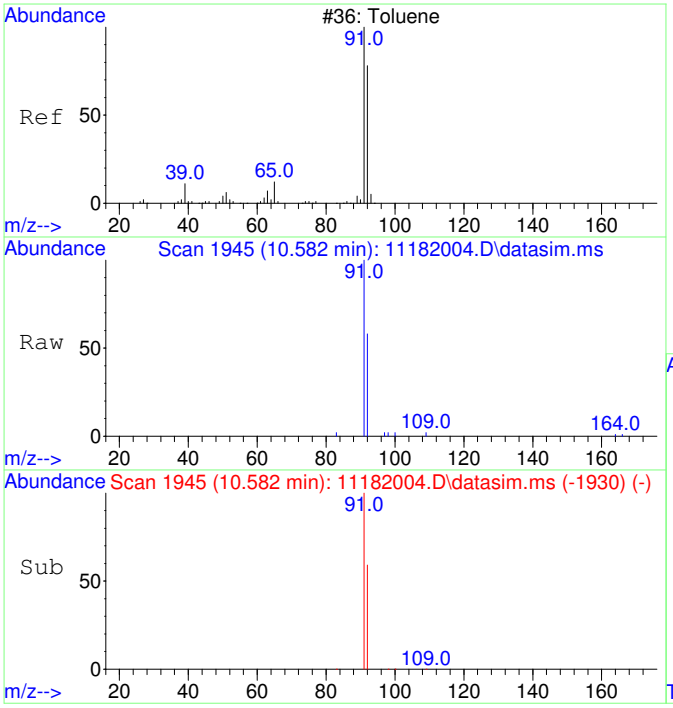


#12
Toluene-d8
Concen: 49.53 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 98 Resp: 6041

Ion	Ratio	Lower	Upper
98	100		
100	64.8	37.1	97.1

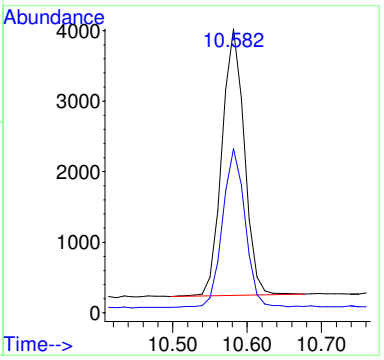


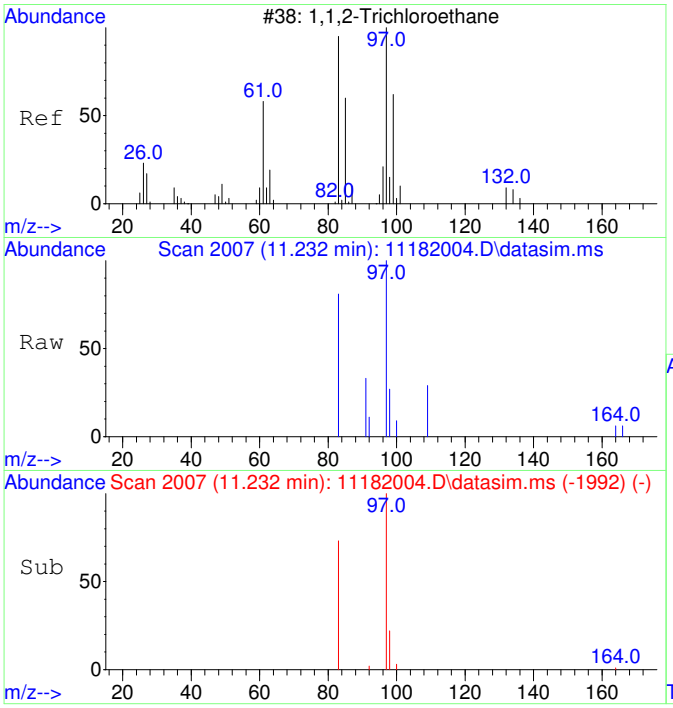


#13
Toluene
Concen: 50.56 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 7861

Ion	Ratio	Lower	Upper
91	100		
92	59.9	29.9	89.9

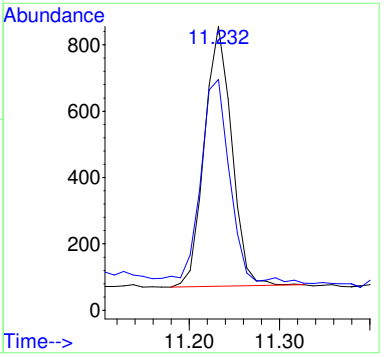


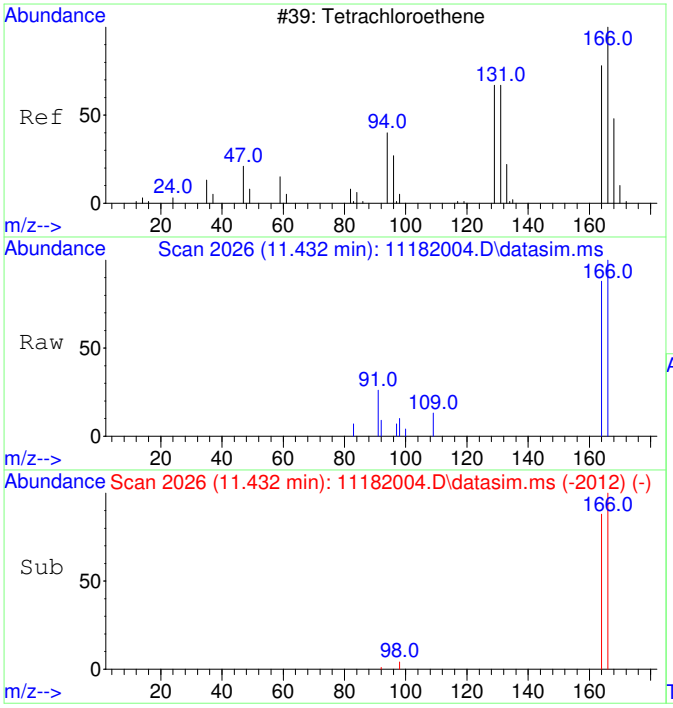


#14
1,1,2-Trichloroethane
Concen: 48.46 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 1642

Ion	Ratio	Lower	Upper
97	100		
83	78.5	51.2	111.2

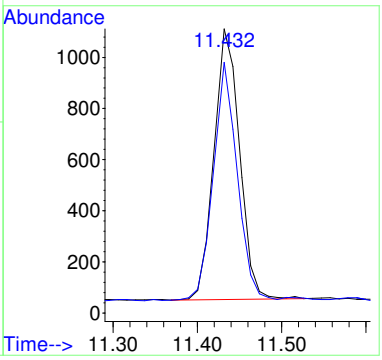


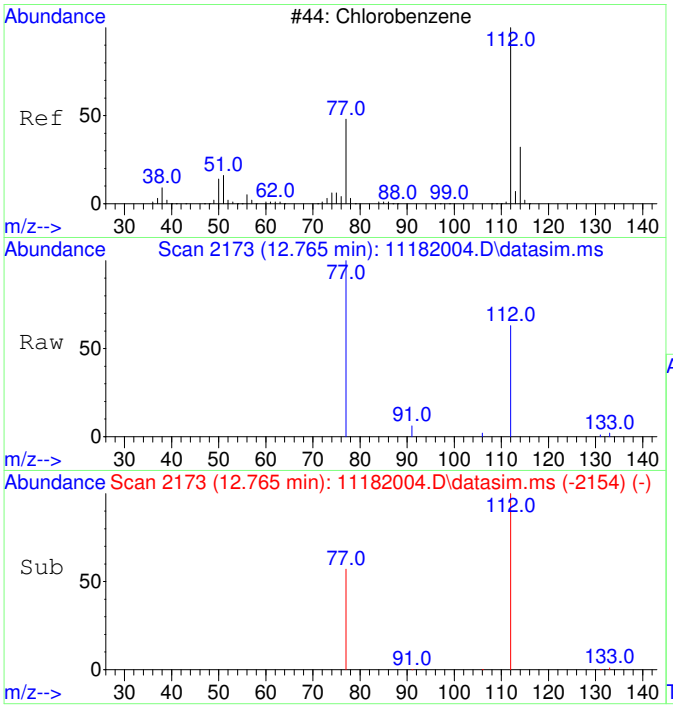


#15
Tetrachloroethene
Concen: 49.82 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:166 Resp: 2242

Ion	Ratio	Lower	Upper
166	100		
164	81.8	47.8	107.8

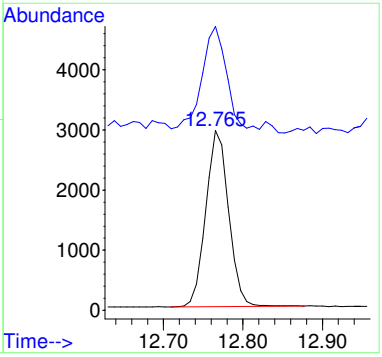


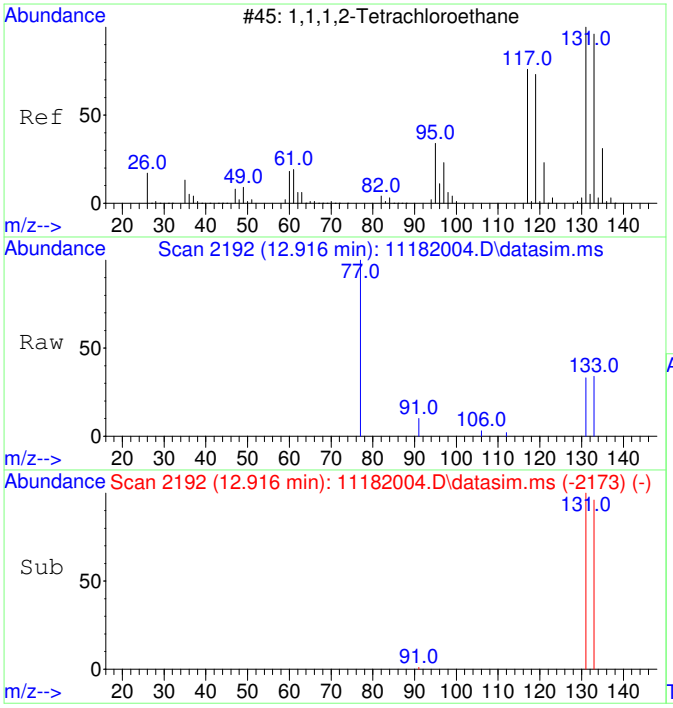


#16
Chlorobenzene
Concen: 52.40 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:112 Resp: 5834

Ion	Ratio	Lower	Upper
112	100		
77	59.9	23.6	83.6

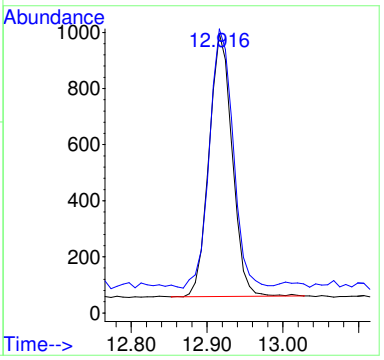


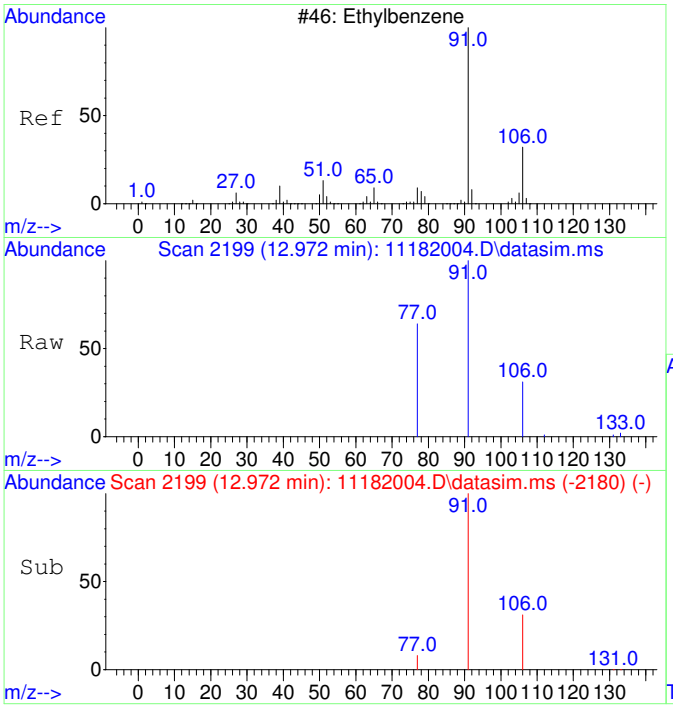


#17
1,1,1,2-Tetrachloroethane
Concen: 49.91 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:131 Resp: 1991

Ion	Ratio	Lower	Upper
131	100		
133	98.9	66.3	126.3

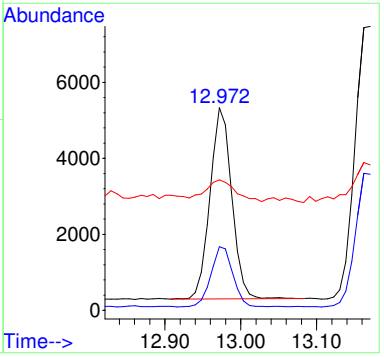


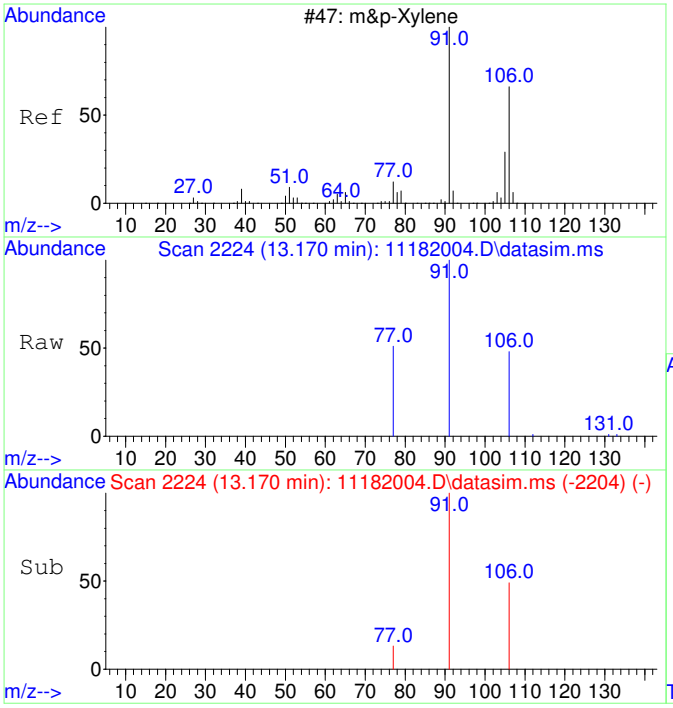


#18
Ethylbenzene
Concen: 52.93 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 10017

Ion	Ratio	Lower	Upper
91	100		
106	31.5	3.0	63.0
77	15.1	0.0	38.2

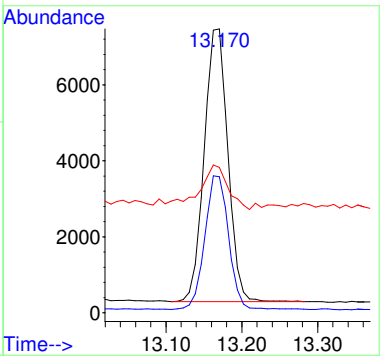


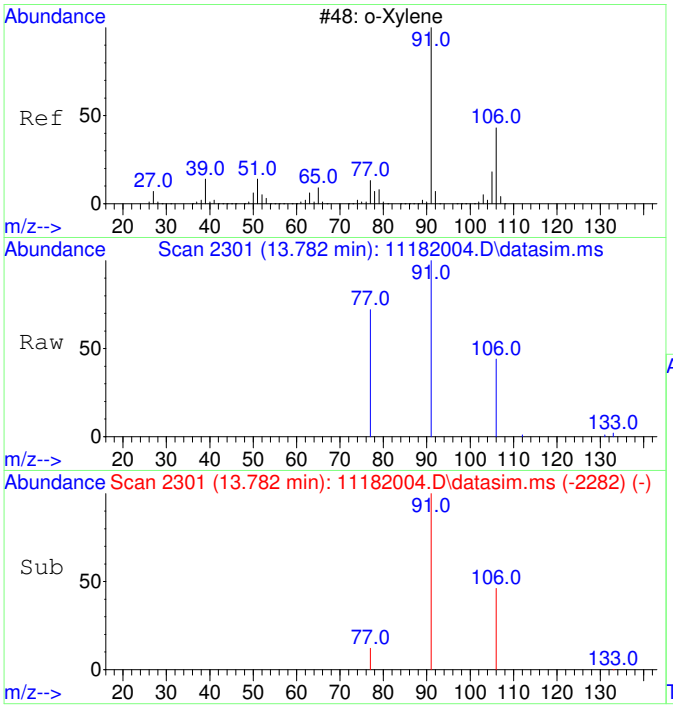


#19
m&p-Xylene
Concen: 104.95 ug/L
RT: 13.170 min Scan# 2224
Delta R.T. 0.008 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 15524

Ion	Ratio	Lower	Upper
91	100		
106	49.2	22.2	82.2
77	20.0	0.0	42.4

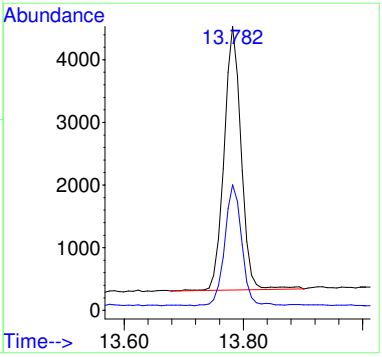


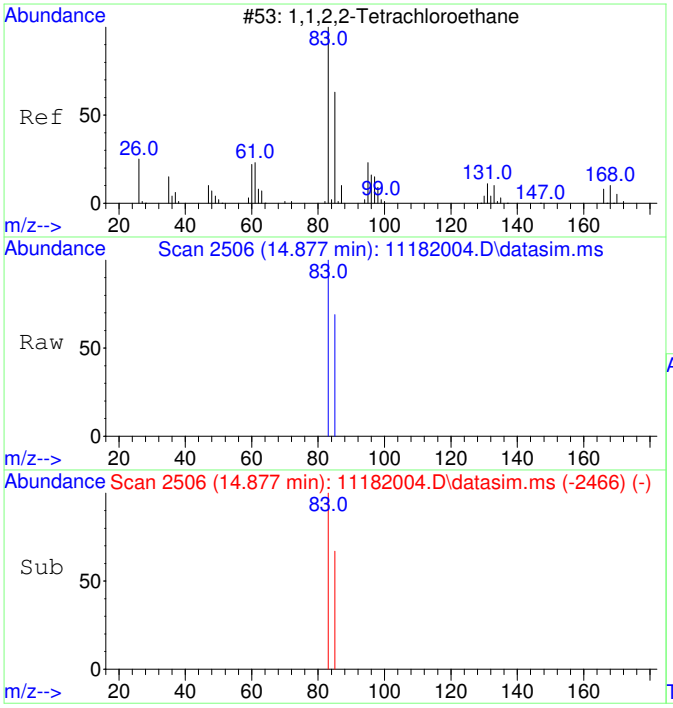


#20
o-Xylene
Concen: 52.79 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 8342

Ion	Ratio	Lower	Upper
91	100		
106	45.4	19.2	79.2

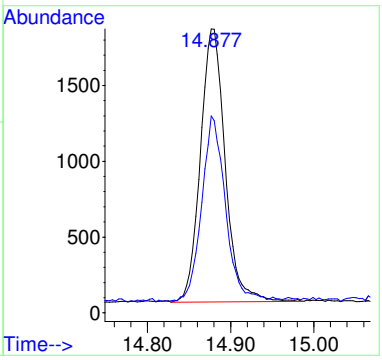


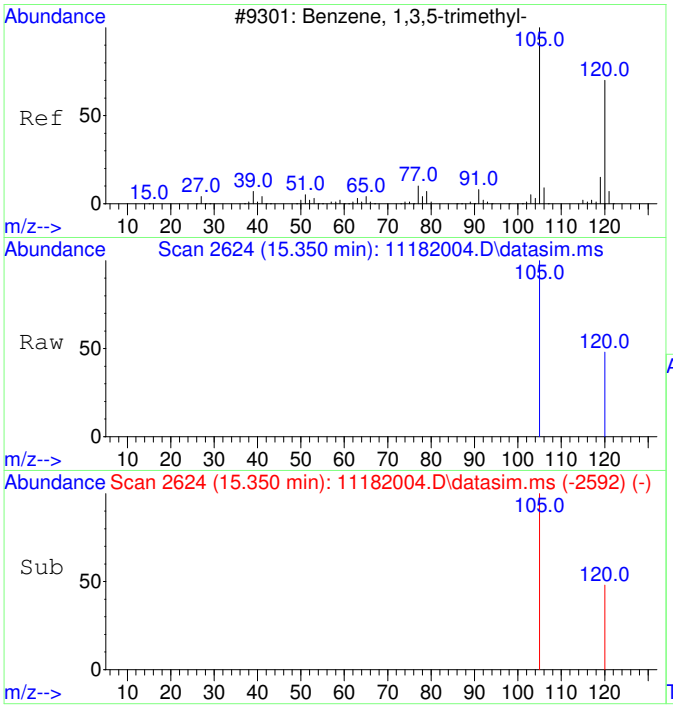


#21
1,1,2,2-Tetrachloroethane
Concen: 53.11 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 3720

Ion	Ratio	Lower	Upper
83	100		
85	63.8	34.8	94.8

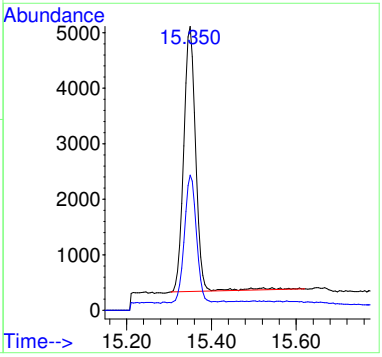


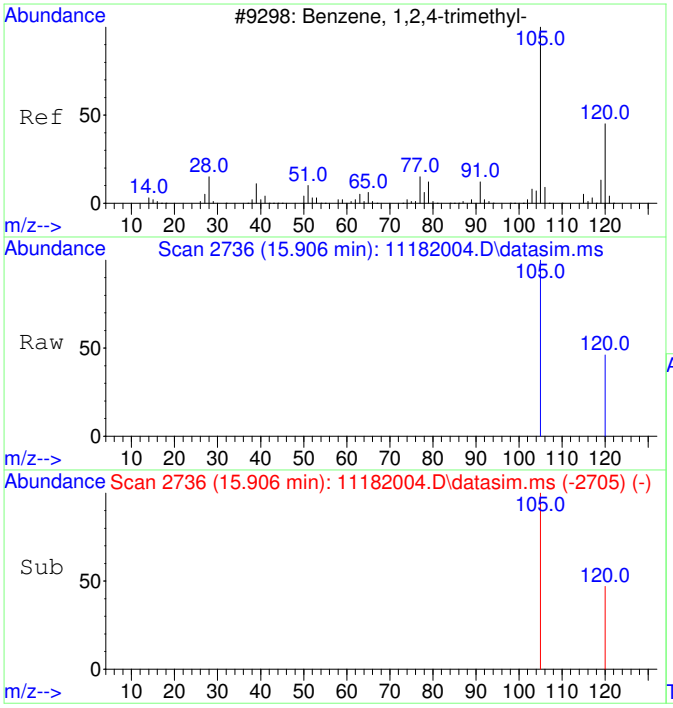


#22
1,3,5-Trimethylbenzene
Concen: 55.49 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 9334

Ion	Ratio	Lower	Upper
105	100		
120	50.7	21.1	81.1

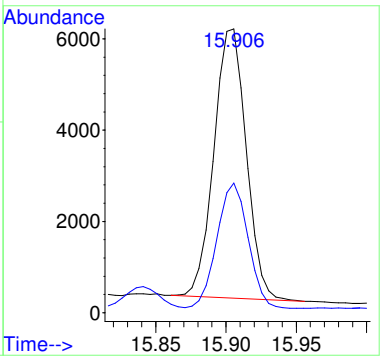


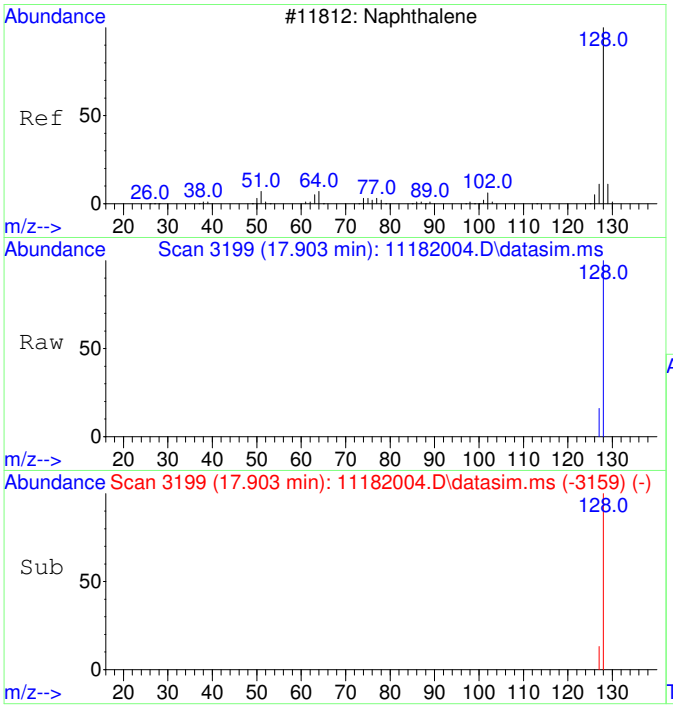


#23
1,2,4-Trimethylbenzene
Concen: 53.69 ug/L
RT: 15.906 min Scan# 2736
Delta R.T. 0.005 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 9381

Ion	Ratio	Lower	Upper
105	100		
120	44.5	17.2	77.2

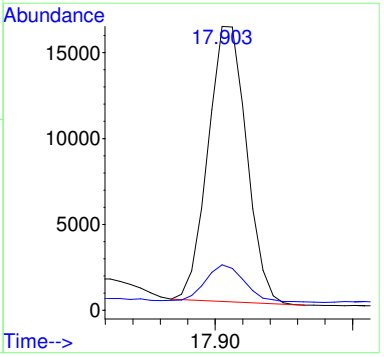


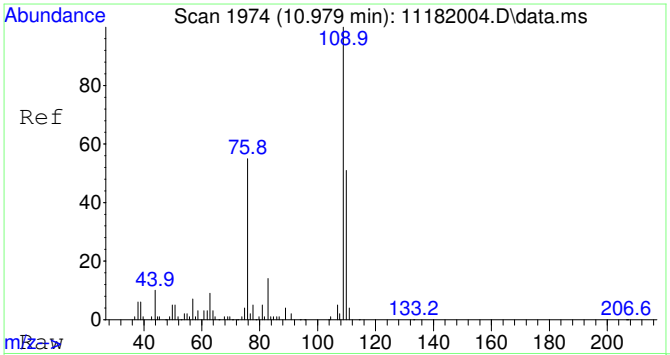


#24
Naphthalene
Concen: 56.32 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:128 Resp: 15551

Ion	Ratio	Lower	Upper
128	100		
127	13.3	0.0	42.5

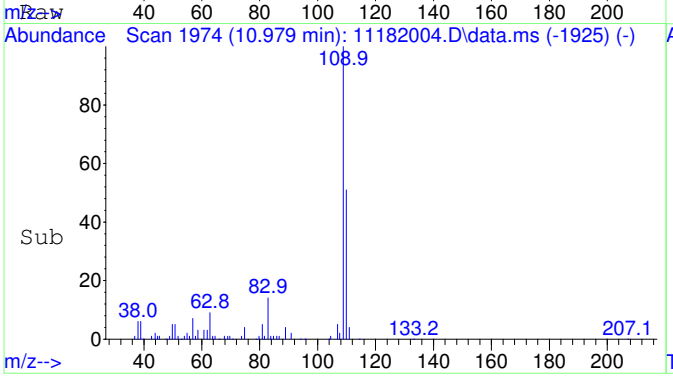


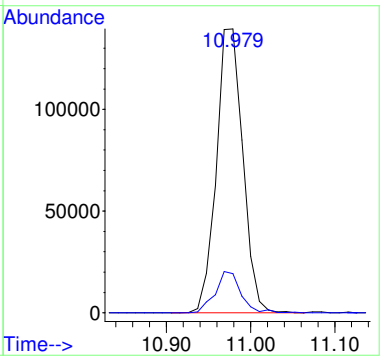


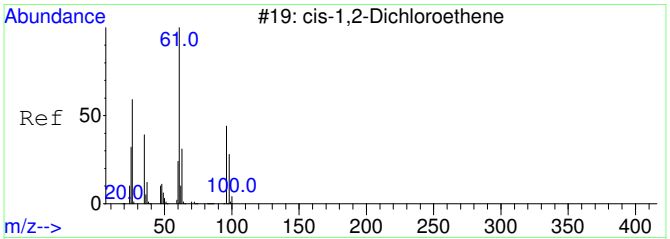
#25
2-Fluorotoluene SCAN
Concen: 5021.41 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:109 Resp: 304957

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	43.8



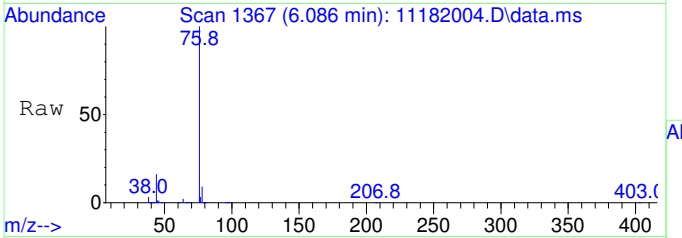


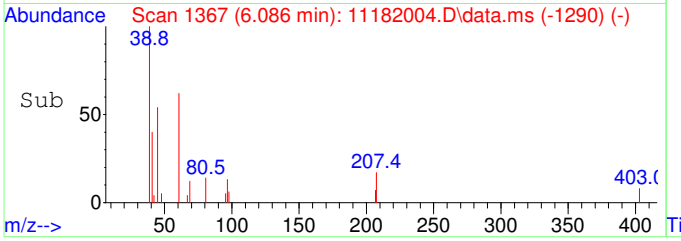


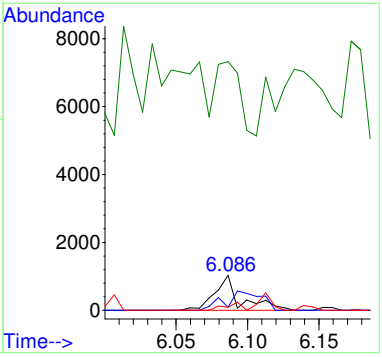
#29
cis-1,2-Dichloroethene SCAN
Concen: 64.13 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

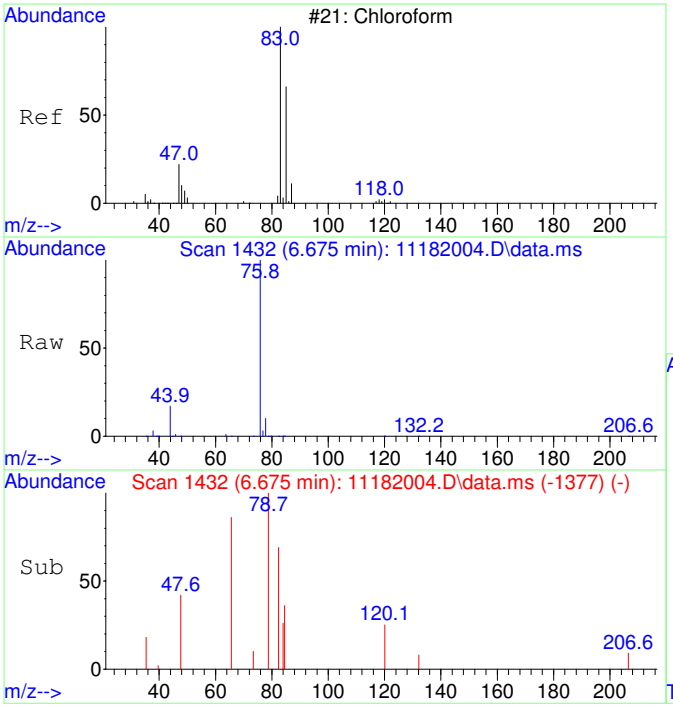
Tgt Ion: 61 Resp: 1269

Ion	Ratio	Lower	Upper
61	100		
96	77.5	39.9	99.9
98	0.0	13.5	73.5#
64	154.5	4.5	64.5#





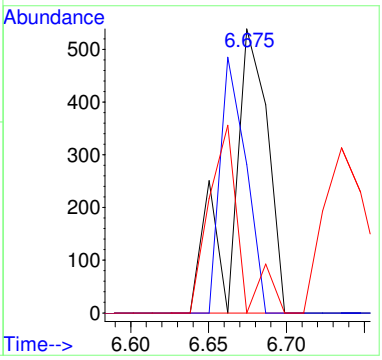


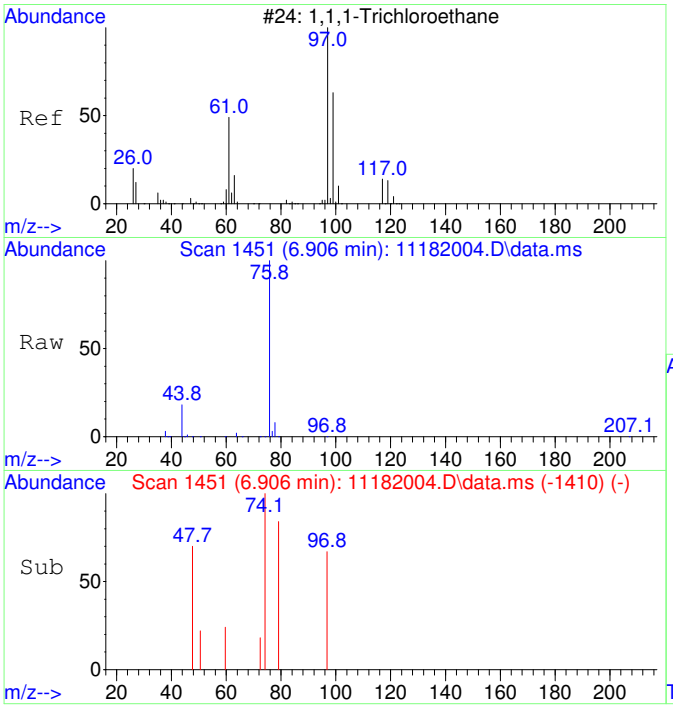


#30
Chloroform SCAN
Concen: 40.30 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.024 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 865

Ion	Ratio	Lower	Upper
83	100		
85	64.7	34.6	94.6
47	56.2	0.0	53.4#

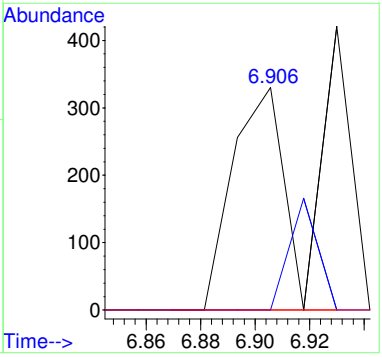


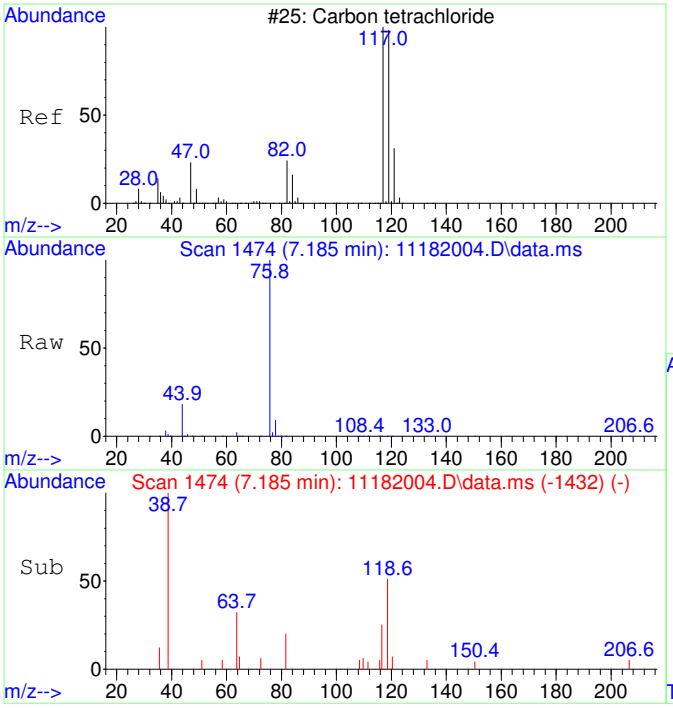


#31
1,1,1-Trichloroethane SCAN
Concen: 21.88 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 428

Ion	Ratio	Lower	Upper
97	100		
99	28.3	43.6	103.6#
61	0.0	18.0	78.0#

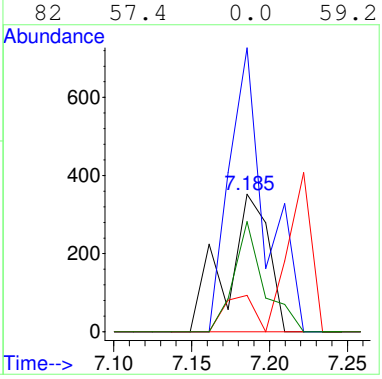


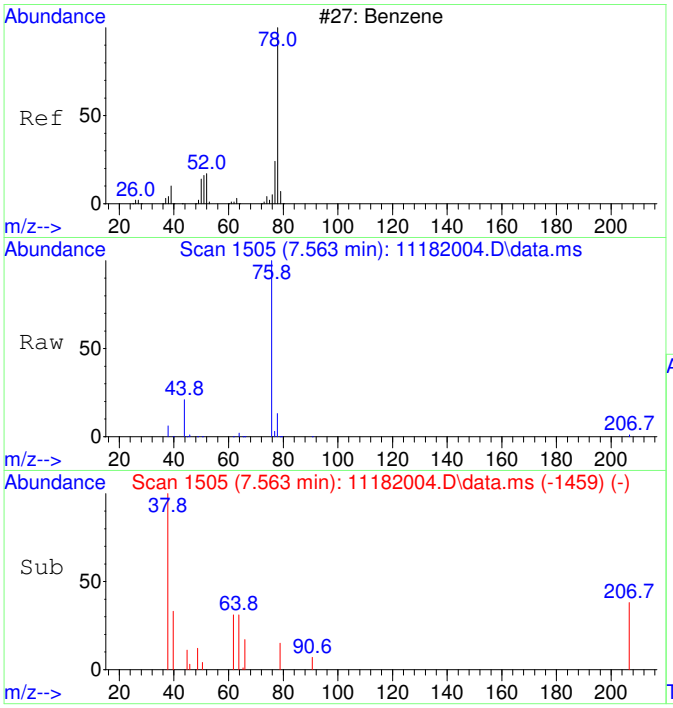


#32
Carbon tetrachloride SCAN
Concen: 32.59 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:117 Resp: 665

Ion	Ratio	Lower	Upper
117	100		
119	178.3	75.5	135.5#
121	0.0	0.0	58.8
82	57.4	0.0	59.2

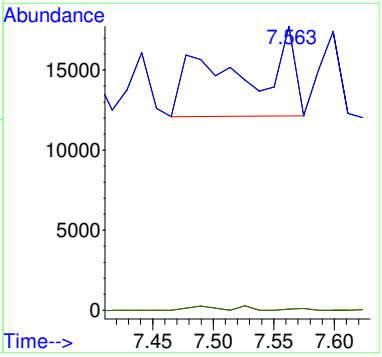


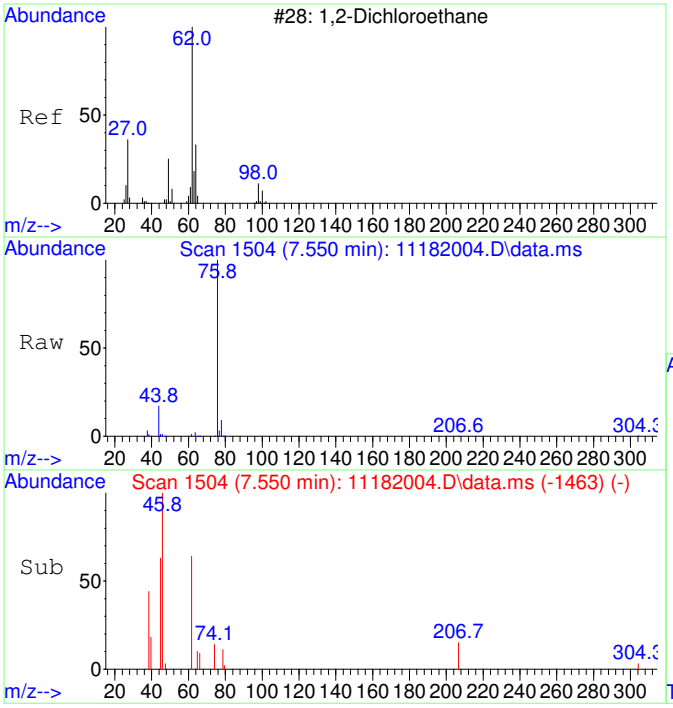


#33
Benzene SCAN
Concen: 328.90 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.061 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 78 Resp: 17713

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.8	0.0	47.9
51	0.8	0.0	44.1

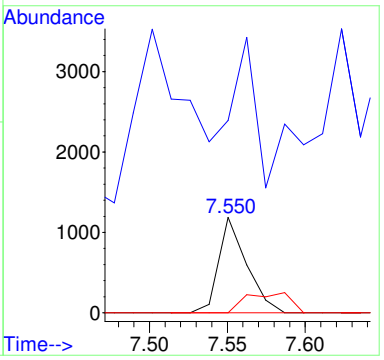


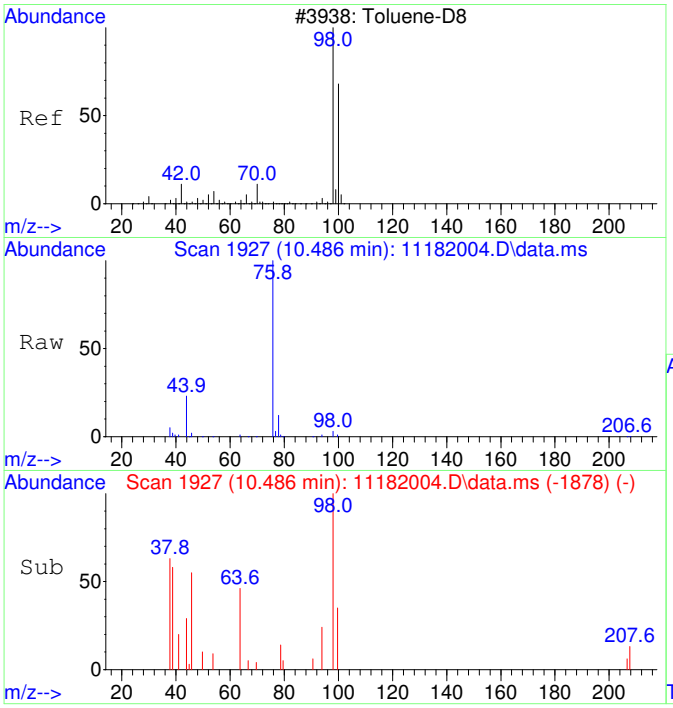


#34
1,2-Dichloroethane SCAN
Concen: 75.13 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 62 Resp: 1494

Ion	Ratio	Lower	Upper
62	100		
64	90.4	5.2	65.2#
49	0.0	3.9	63.9#

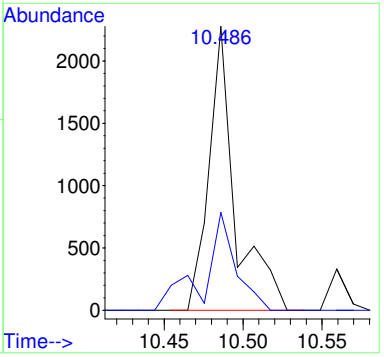


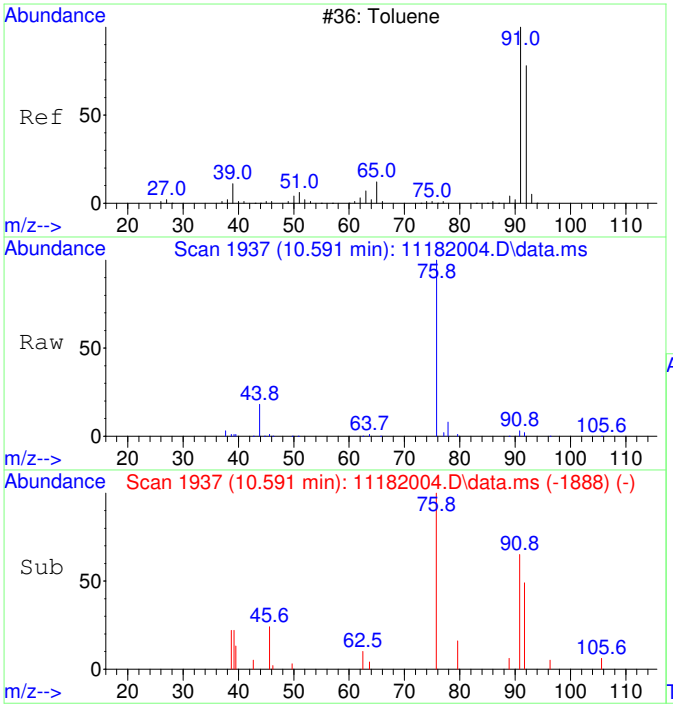


#36
Toluene-d8 SCAN
Concen: 44.11 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 98 Resp: 2620

Ion	Ratio	Lower	Upper
98	100		
100	42.0	40.0	100.0

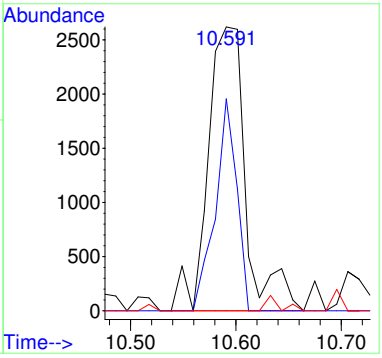


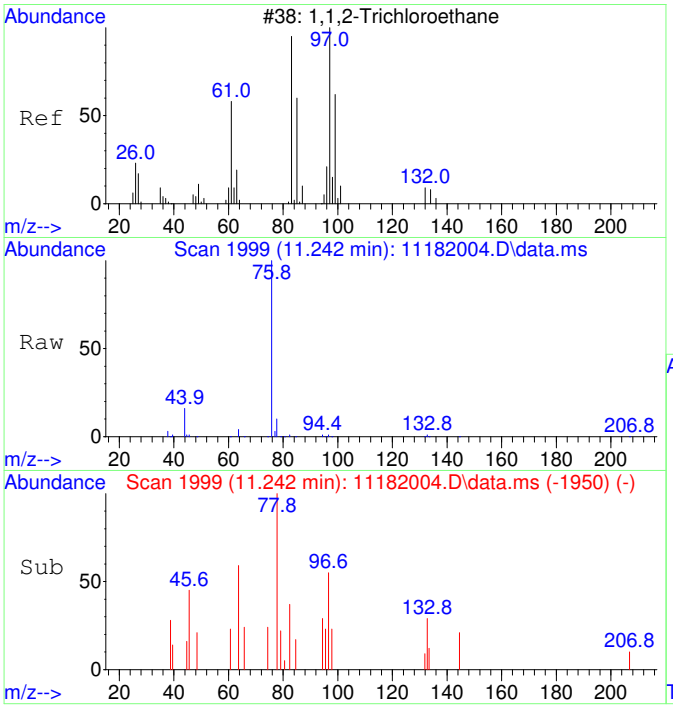


#37
Toluene SCAN
Concen: 85.96 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 6538

Ion	Ratio	Lower	Upper
91	100		
92	42.3	28.3	88.3
65	0.0	0.0	41.0

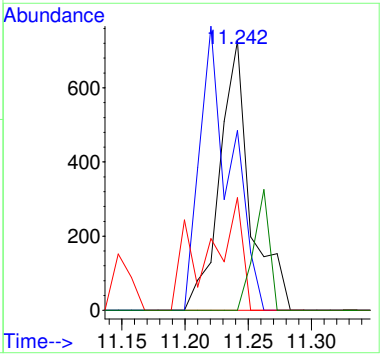


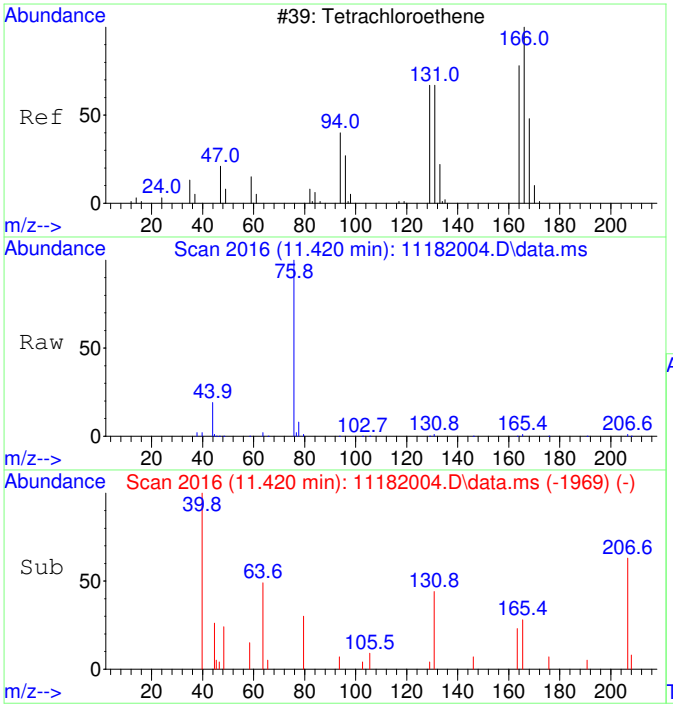


#38
1,1,2-Trichloroethane SCAN
Concen: 71.63 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 1223

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	25.8	32.1	92.1#
99	0.0	36.7	96.7#

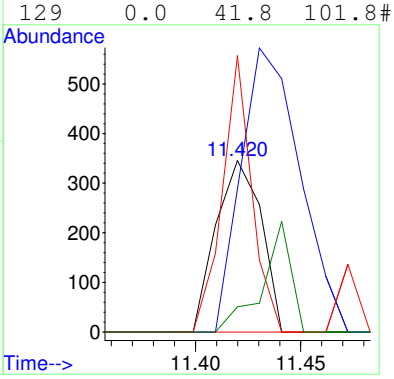


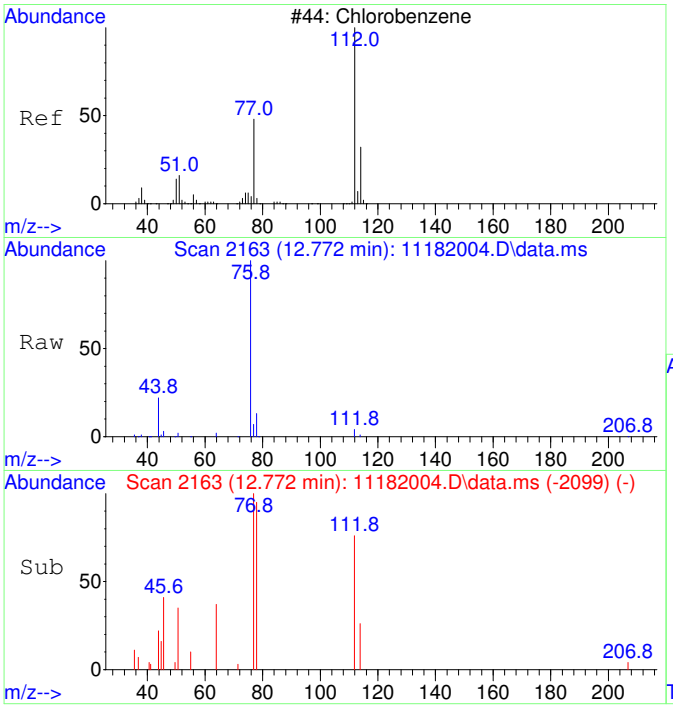


#39
Tetrachloroethene SCAN
Concen: 28.24 ug/L
RT: 11.420 min Scan# 2016
Delta R.T. -0.011 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:166 Resp: 516

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	105.0	38.7	98.7#
129	0.0	41.8	101.8#

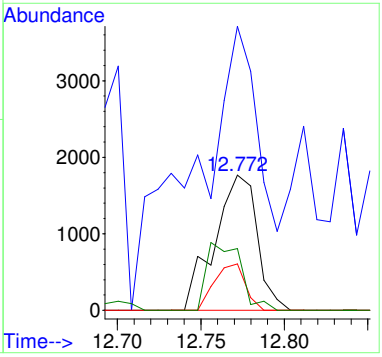


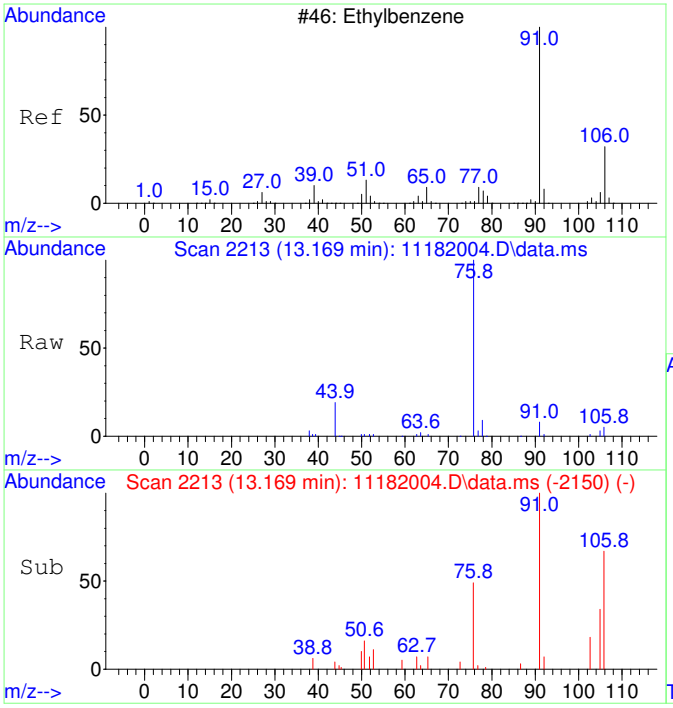


#40
Chlorobenzene SCAN
Concen: 60.38 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:112 Resp: 3138

Ion	Ratio	Lower	Upper
112	100		
77	124.3	28.2	88.2#
114	25.0	2.3	62.3
51	40.4	0.0	50.1

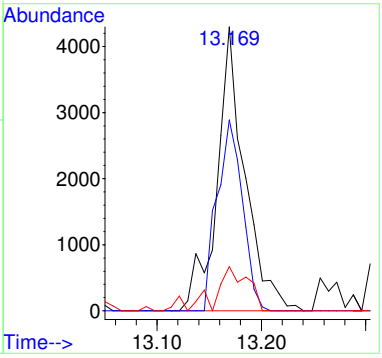


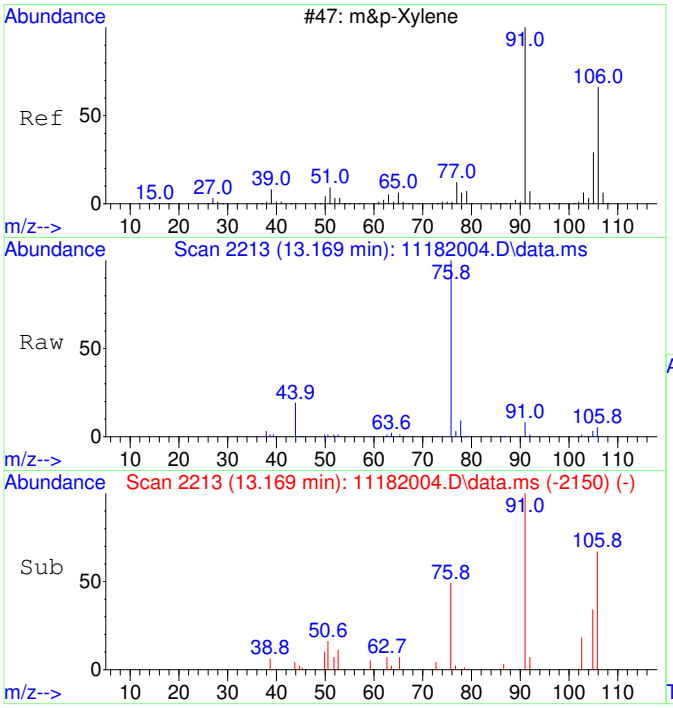


#42
Ethylbenzene SCAN
Concen: 57.51 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 7969

Ion	Ratio	Lower	Upper
91	100		
106	61.4	23.1	83.1
51	17.3	0.0	40.1

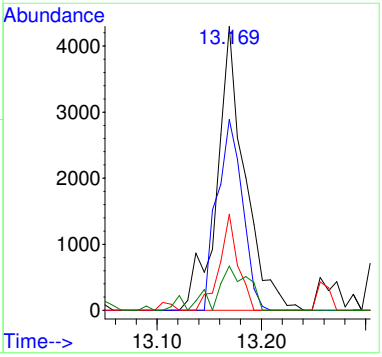


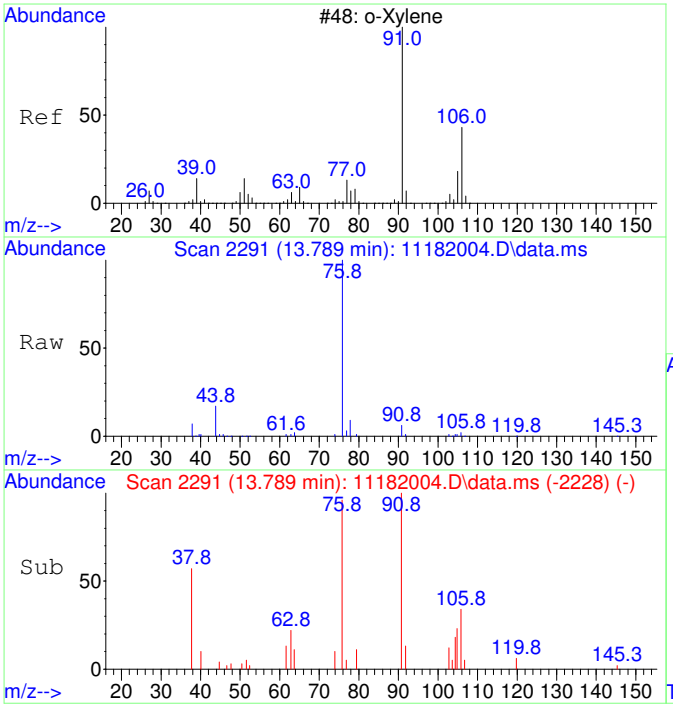


#43
m&p-Xylene SCAN
Concen: 57.51 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 7969

Ion	Ratio	Lower	Upper
91	100		
106	61.4	23.1	83.1
105	22.6	0.0	54.7
51	17.3	0.0	40.1

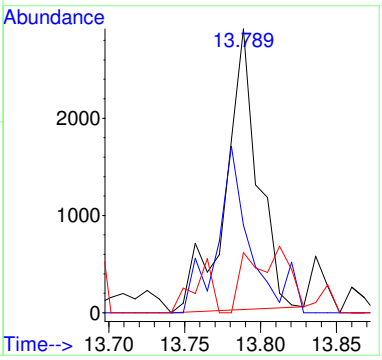


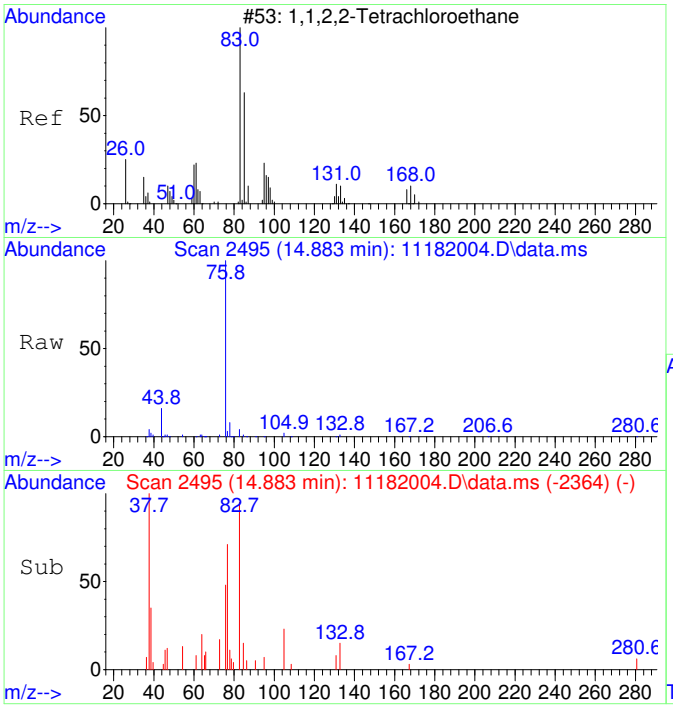


#44
o-Xylene SCAN
Concen: 58.03 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 4304

Ion	Ratio	Lower	Upper
91	100		
106	61.4	18.0	78.0
105	0.0	0.0	56.6

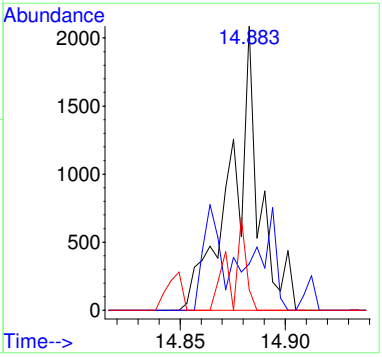


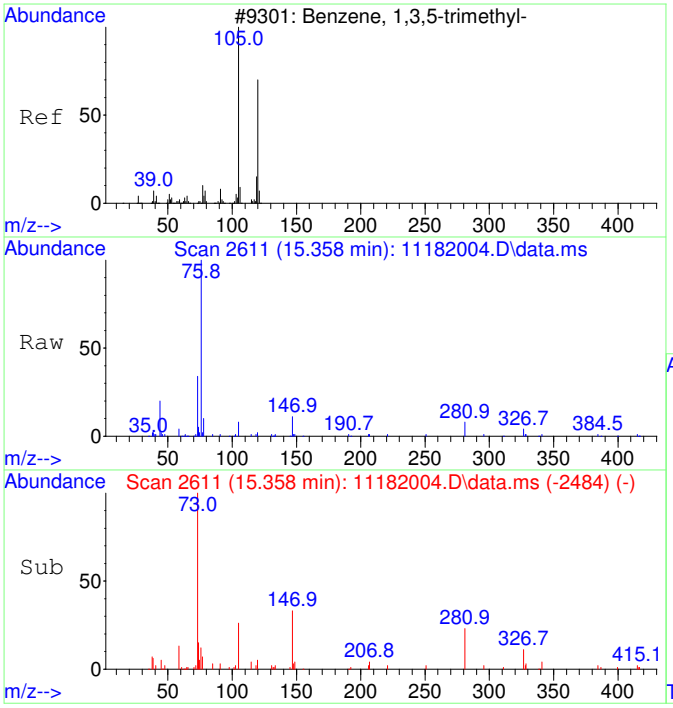


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 52.64 ug/L
RT: 14.883 min Scan# 2495
Delta R.T. 0.011 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 1904

Ion	Ratio	Lower	Upper
83	100		
85	9.0	35.9	95.9#
95	9.7	0.0	47.4

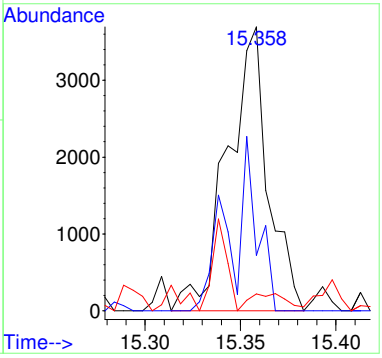


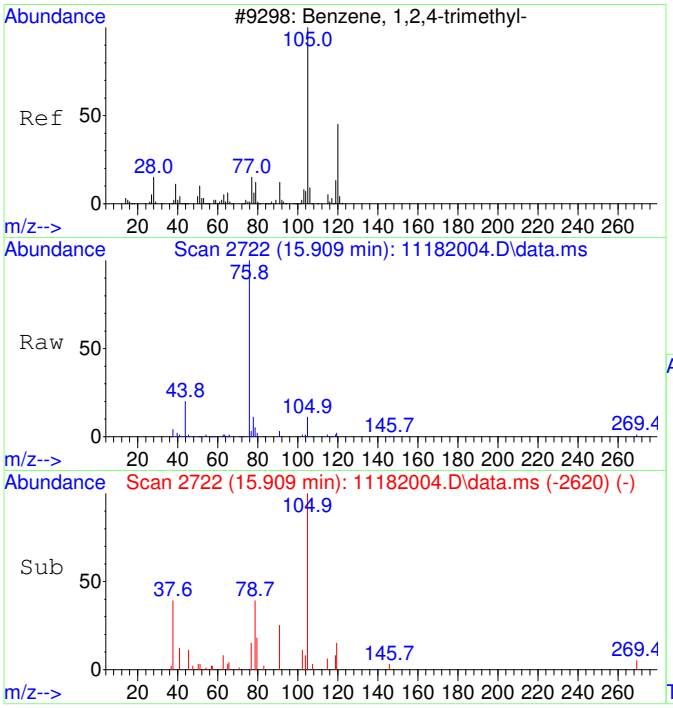


#46
1,3,5-Trimethylbenzene SCAN
Concen: 69.51 ug/L
RT: 15.358 min Scan# 2611
Delta R.T. 0.015 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 5434

Ion	Ratio	Lower	Upper
105	100		
120	20.1	18.3	78.3
119	1.9	0.0	43.1

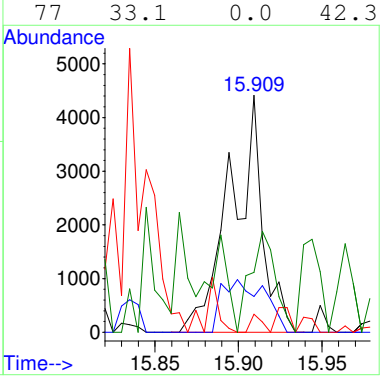


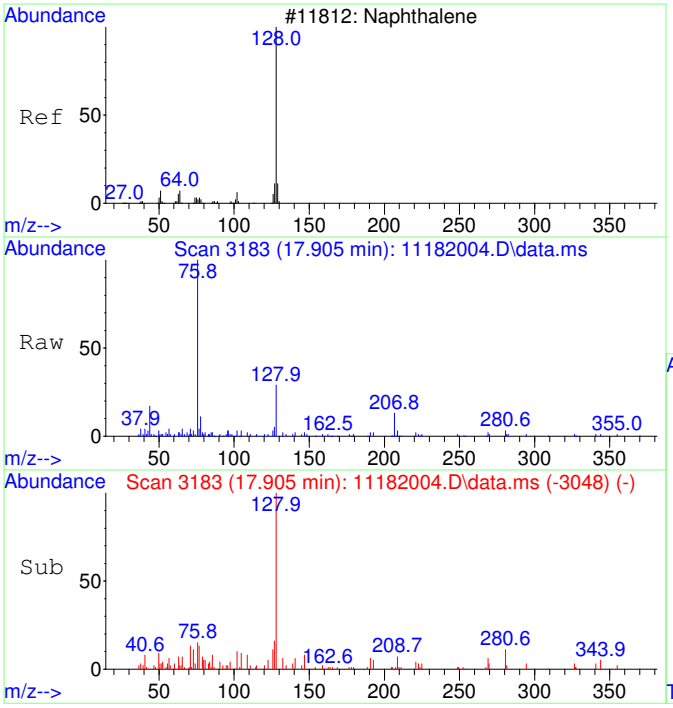


#47
1,2,4-Trimethylbenzene SCAN
Concen: 73.65 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.005 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 5891

Ion	Ratio	Lower	Upper
105	100		
120	29.7	16.9	76.9
119	2.7	0.0	41.9
77	33.1	0.0	42.3

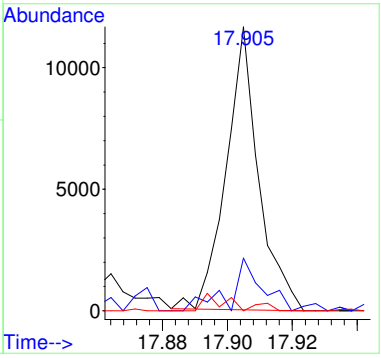




#48
Naphthalene SCAN
Concen: 66.84 ug/L
RT: 17.905 min Scan# 3183
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:128 Resp: 8090

Ion	Ratio	Lower	Upper
128	100		
127	19.9	0.0	44.0
129	5.5	0.0	40.8



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182004.D
Acq On : 18 Nov 2020 10:49
InstName : AG5975C
Operator : TD
Sample : S20K077-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

M.I. Performed By:
TD at 11:35 am, Nov 18, 2020

M.I. Approved By:
ZR at 3:53 pm, Nov 23, 2020

Quant Time: Nov 18 11:07:51 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

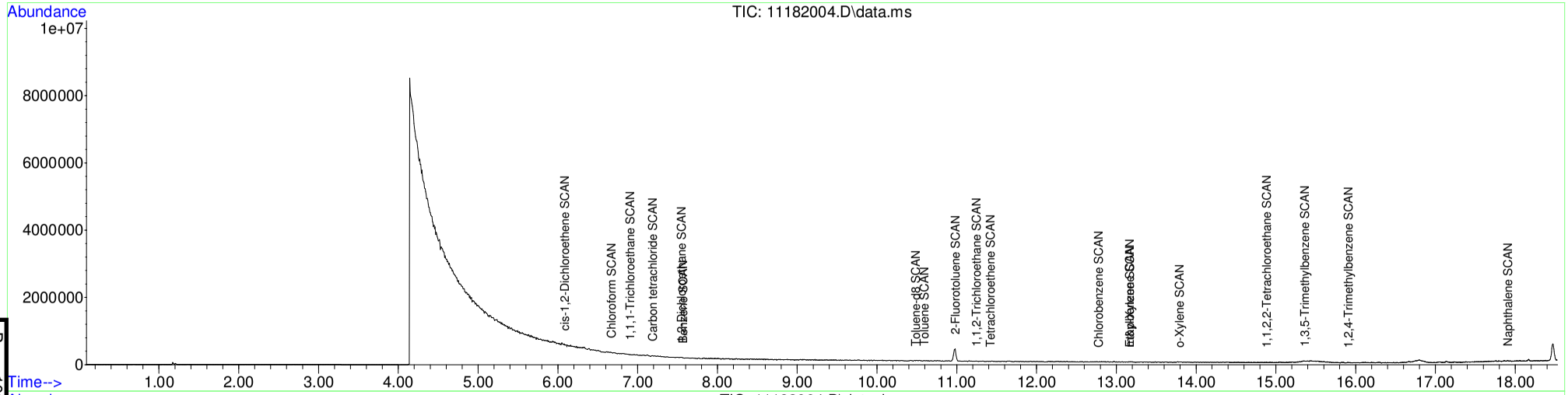
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	623004	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	6041	49.53 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery =	0.99%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	1085m	43.61 ug/L	
3] trans-1,2-Dichloroethene	4.369	61	1289	44.85 ug/L	51
4] 1,1-Dichloroethane	5.086	63	1668	46.62 ug/L	76
5] cis-1,2-Dichloroethene	6.088	61	1685	44.62 ug/L	97
6] Chloroform	6.652	83	1717	44.42 ug/L	99
7] 1,1,1-Trichloroethane	6.919	97	1808	43.07 ug/L	98
8] Carbon tetrachloride	7.187	117	1736	43.93 ug/L	99
9] Benzene	7.515	78	4454	42.08 ug/L #	1
10] 1,2-Dichloroethane	7.552	62	1701	45.02 ug/L #	28
11] Trichloroethene	8.575	130	1521	47.72 ug/L	91
13] Toluene	10.582	91	7861	50.56 ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	1642	48.46 ug/L	97
15] Tetrachloroethene	11.432	166	2242	49.82 ug/L	95
16] Chlorobenzene	12.765	112	5834	52.40 ug/L	91
17] 1,1,1,2-Tetrachloroethane	12.916	131	1991	49.91 ug/L	97
18] Ethylbenzene	12.972	91	10017	52.93 ug/L	94
19] m&p-Xylene	13.170	91	15524	104.95 ug/L	93
20] o-Xylene	13.782	91	8342	52.79 ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.877	83	3720	53.11 ug/L	99
22] 1,3,5-Trimethylbenzene	15.350	105	9334	55.49 ug/L	99
23] 1,2,4-Trimethylbenzene	15.906	105	9381	53.69 ug/L	96
24] Naphthalene	17.903	128	15551	56.32 ug/L	98
25) 2-Fluorotoluene SCAN	10.979	109	304957	5021.41 ug/L	99
29) cis-1,2-Dichloroethene...	6.086	61	1269	64.13 ug/L #	27
30) Chloroform SCAN	6.675	83	865	40.30 ug/L #	82
31) 1,1,1-Trichloroethane ...	6.906	97	428	21.88 ug/L #	39
32) Carbon tetrachloride SCAN	7.185	117	665	32.59 ug/L #	35
33) Benzene SCAN	7.563	78	17713	328.90 ug/L	91
34) 1,2-Dichloroethane SCAN	7.550	62	1494	75.13 ug/L #	23
36) Toluene-d8 SCAN	10.486	98	2620	44.11 ug/L	66
37) Toluene SCAN	10.591	91	6538	85.96 ug/L #	77
38) 1,1,2-Trichloroethane ...	11.242	97	1223	71.63 ug/L #	23
39) Tetrachloroethene SCAN	11.420	166	516	28.24 ug/L #	25
40) Chlorobenzene SCAN	12.772	112	3138	60.38 ug/L #	41
42) Ethylbenzene SCAN	13.169	91	7969	57.51 ug/L	87
43) m&p-Xylene SCAN	13.169	91	7969	57.51 ug/L	90
44) o-Xylene SCAN	13.789	91	4304	58.03 ug/L #	69
45) 1,1,2,2-Tetrachloroeth...	14.883	83	1904	52.64 ug/L #	40
46) 1,3,5-Trimethylbenzene...	15.358	105	5434	69.51 ug/L	61
47) 1,2,4-Trimethylbenzene...	15.909	105	5891	73.65 ug/L	70
48) Naphthalene SCAN	17.905	128	8090	66.84 ug/L	86

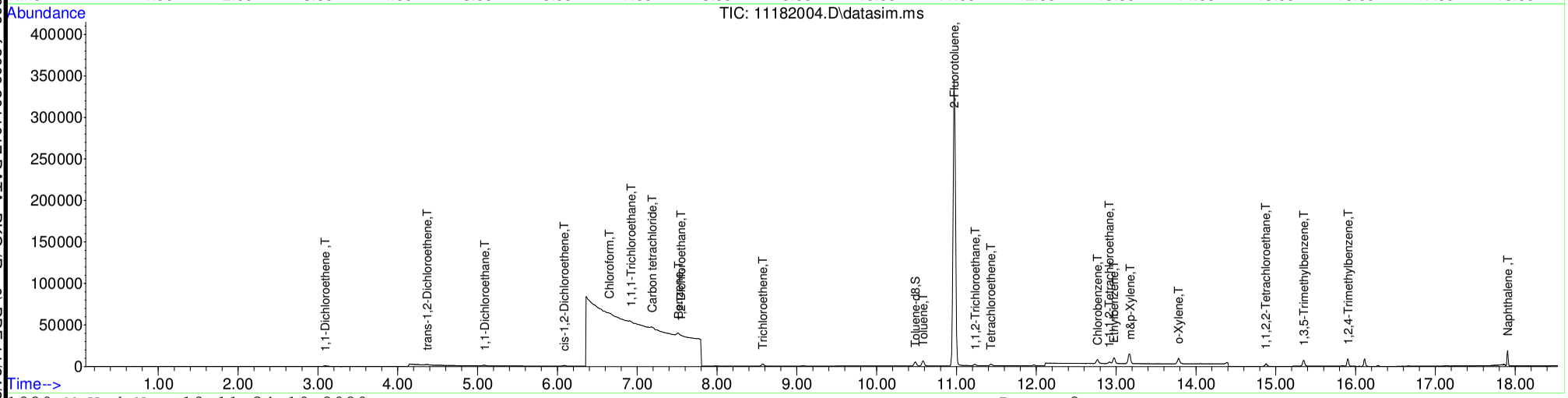
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182004.D
Acq On : 18 Nov 2020 10:49
InstName : AG5975C
Operator : TD
Sample : S20K077-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 18 11:07:51 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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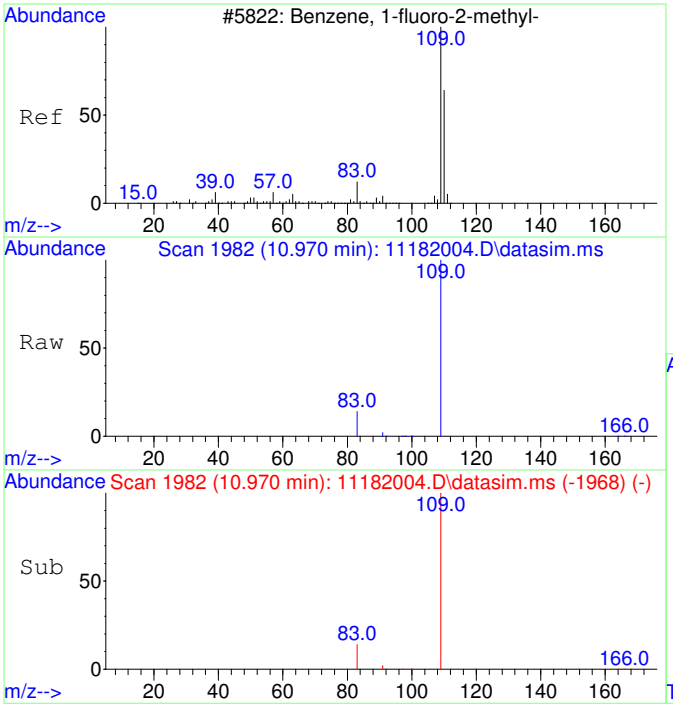
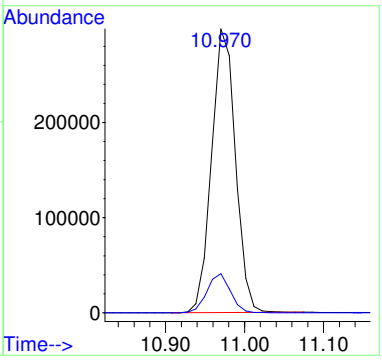
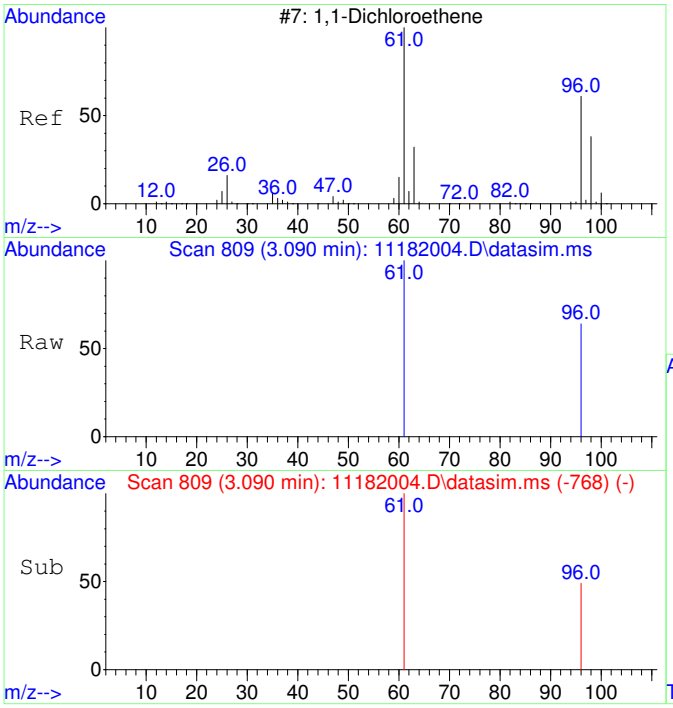


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:109 Resp: 623004

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

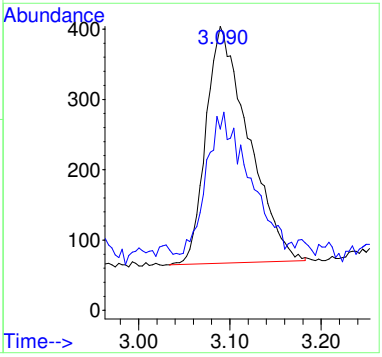


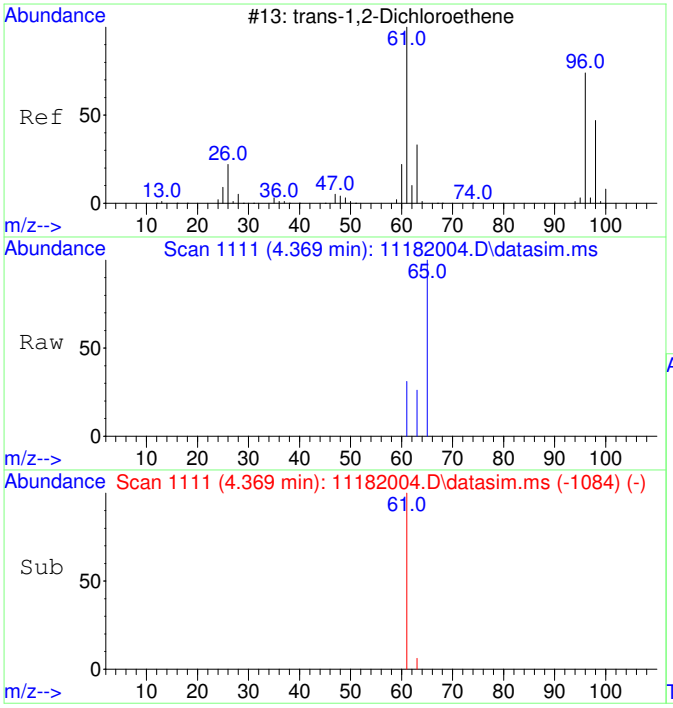


#2
1,1-Dichloroethene
Concen: 43.61 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 61 Resp: 1085

Ion	Ratio	Lower	Upper
61	100		
96	78.2	37.2	97.2

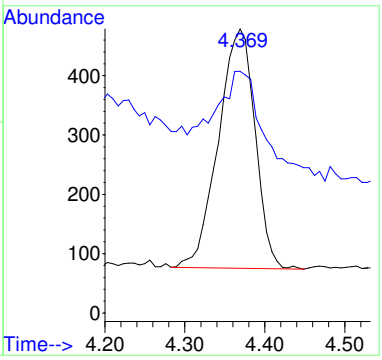


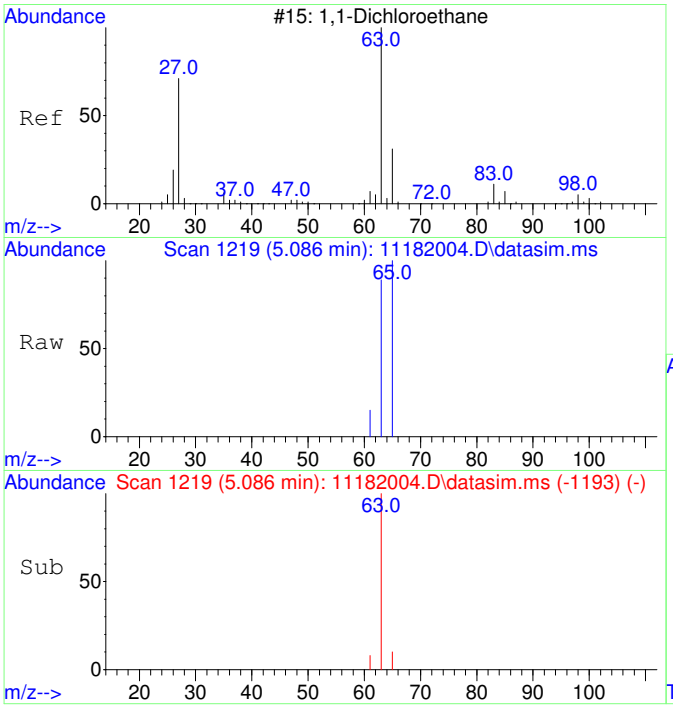


#3
trans-1,2-Dichloroethene
Concen: 44.85 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. 0.026 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 61 Resp: 1289

Ion	Ratio	Lower	Upper
61	100		
63	59.8	2.4	62.4

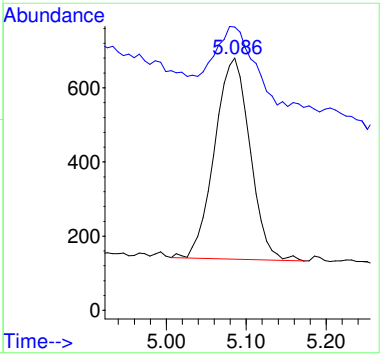


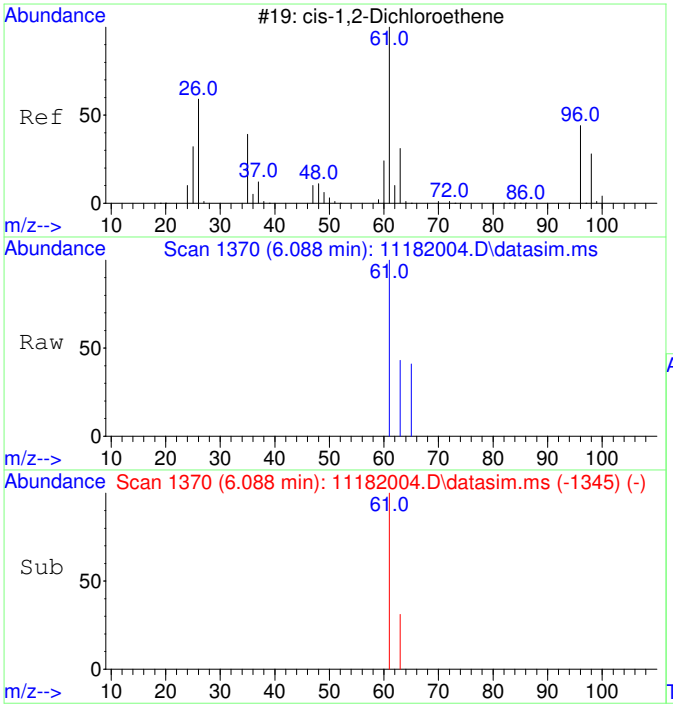


#4
1,1-Dichloroethane
Concen: 46.62 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 63 Resp: 1668

Ion	Ratio	Lower	Upper
63	100		
65	45.1	1.8	61.8

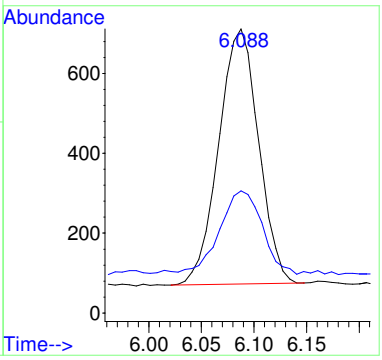


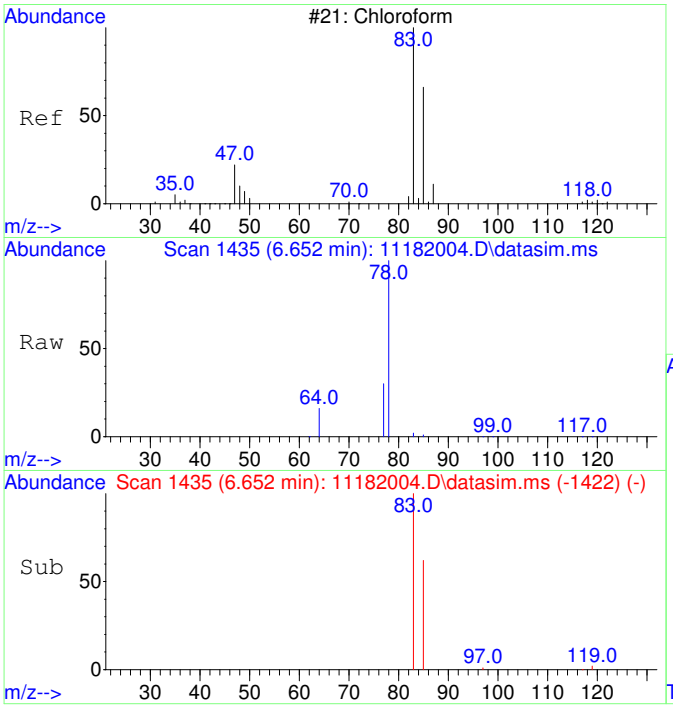


#5
cis-1,2-Dichloroethene
Concen: 44.62 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 61 Resp: 1685

Ion	Ratio	Lower	Upper
61	100		
63	34.2	2.5	62.5

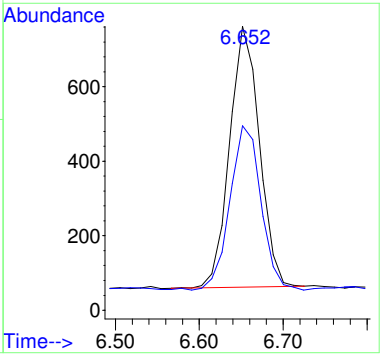


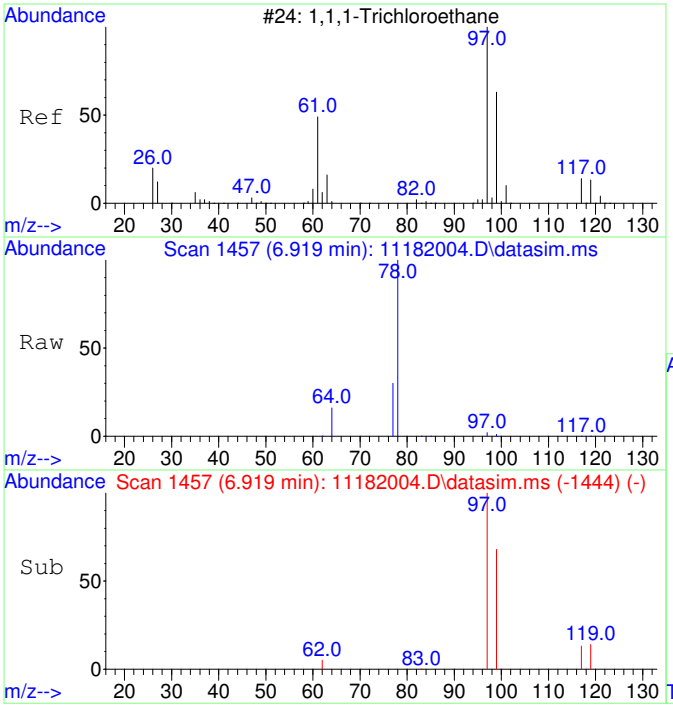


#6
Chloroform
Concen: 44.42 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 1717

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.1	95.1

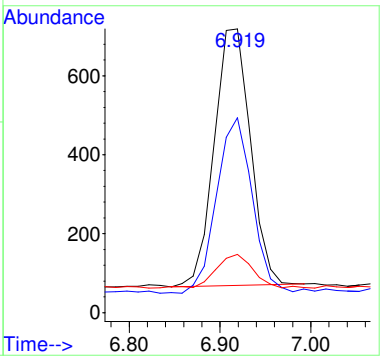


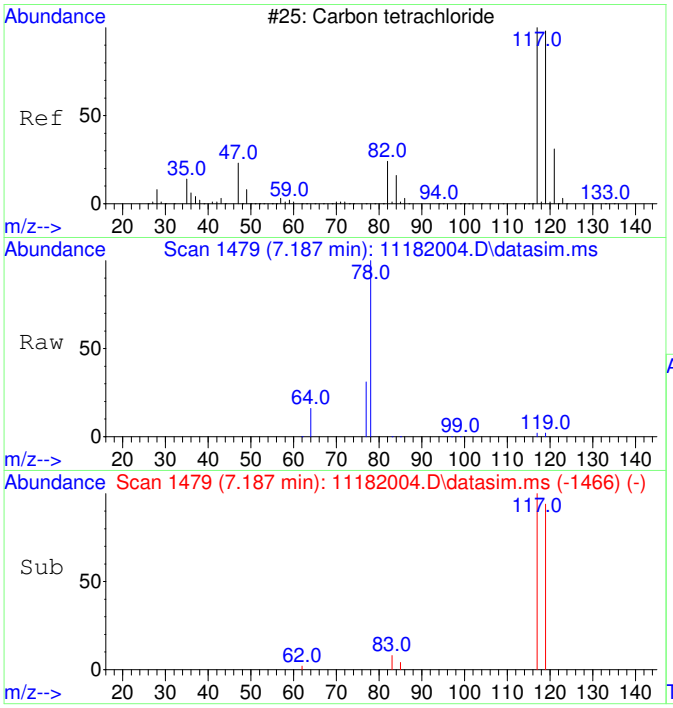


#7
1,1,1-Trichloroethane
Concen: 43.07 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 1808

Ion	Ratio	Lower	Upper
97	100		
99	66.3	34.6	94.6
117	13.8	0.0	43.2

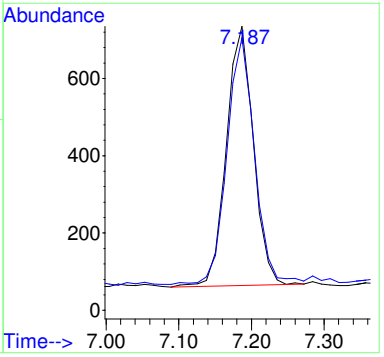


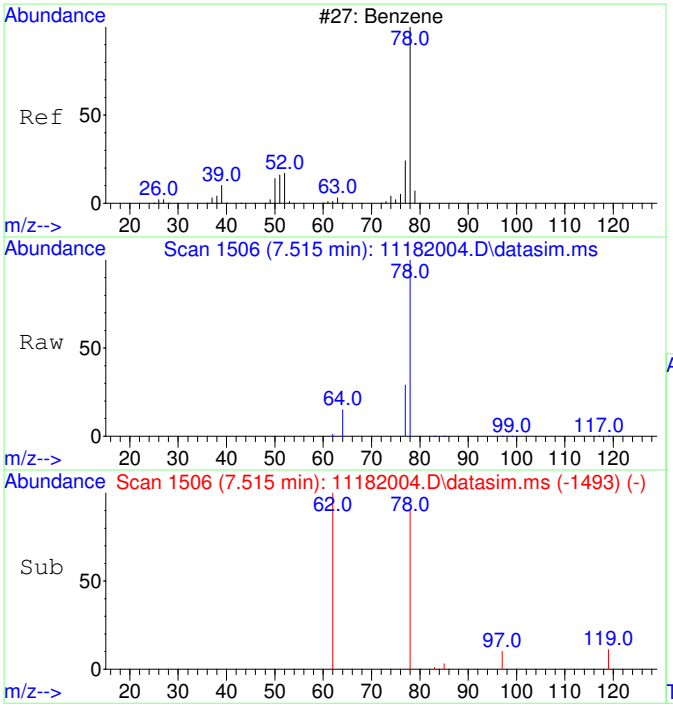


#8
Carbon tetrachloride
Concen: 43.93 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:117 Resp: 1736

Ion	Ratio	Lower	Upper
117	100		
119	97.4	66.4	126.4

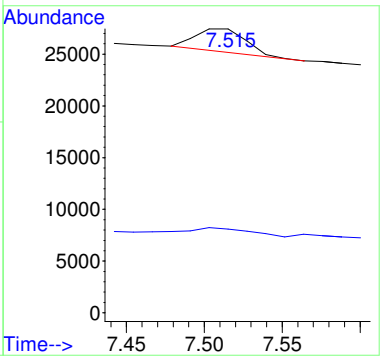


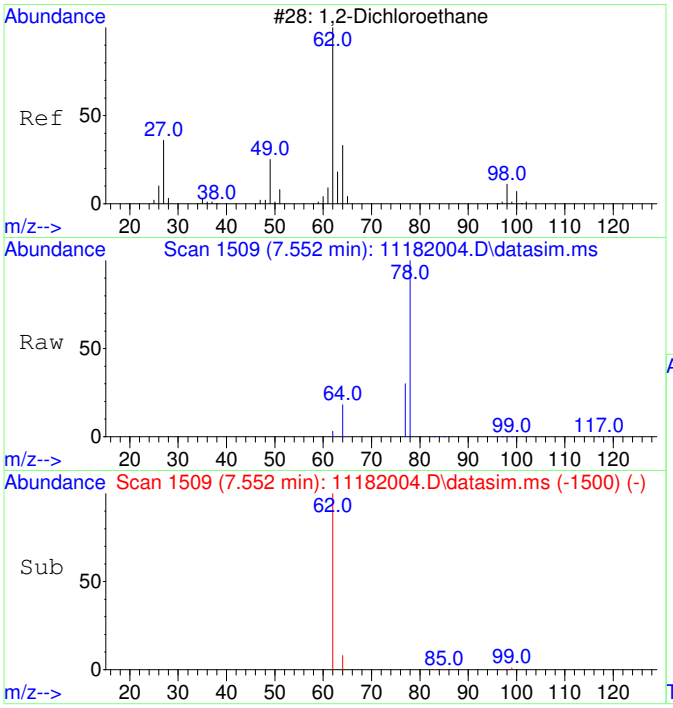


#9
Benzene
Concen: 42.08 ug/L
RT: 7.515 min Scan# 1506
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 78 Resp: 4454

Ion	Ratio	Lower	Upper
78	100		
77	89.1	0.0	53.2#

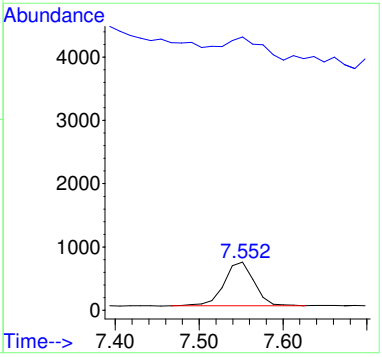


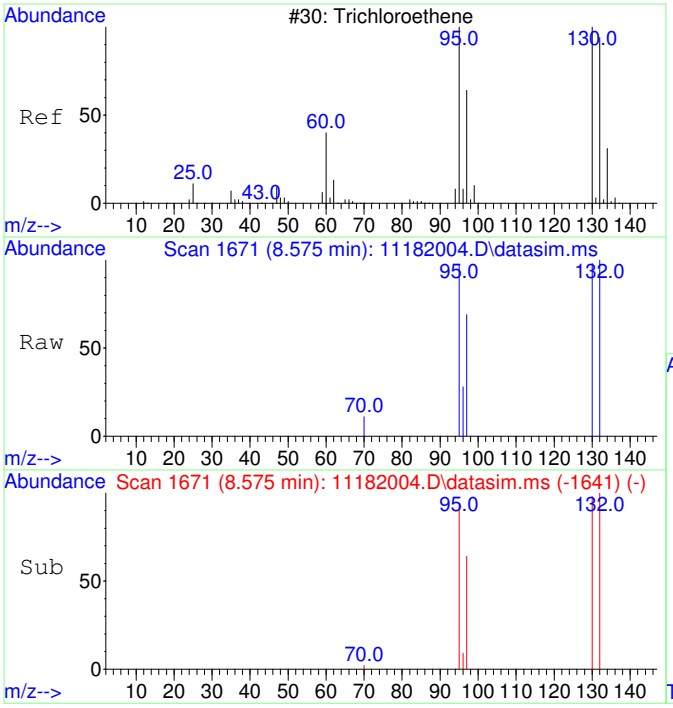


#10
1,2-Dichloroethane
Concen: 45.02 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 62 Resp: 1701

Ion	Ratio	Lower	Upper
62	100		
64	72.8	2.3	62.3#

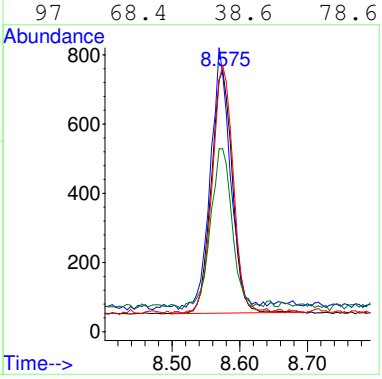


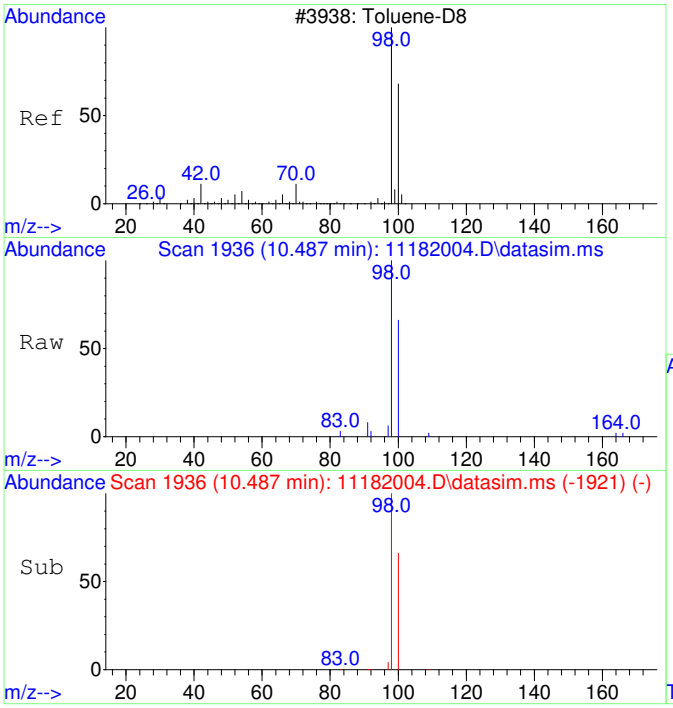


#11
Trichloroethene
Concen: 47.72 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:130 Resp: 1521

Ion	Ratio	Lower	Upper
130	100		
95	101.4	60.7	120.7
132	101.1	76.0	116.0
97	68.4	38.6	78.6

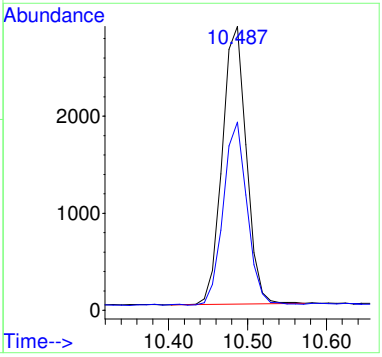


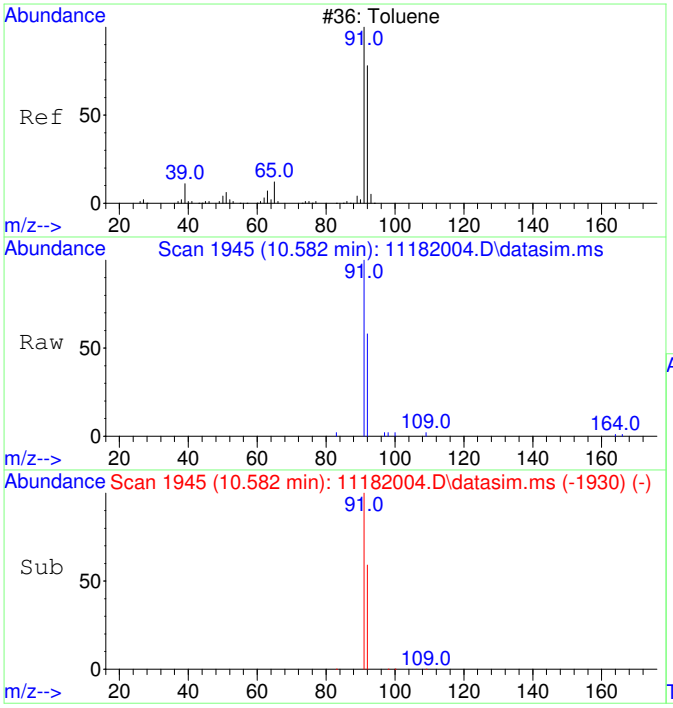


#12
Toluene-d8
Concen: 49.53 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 98 Resp: 6041

Ion	Ratio	Lower	Upper
98	100		
100	64.8	37.1	97.1

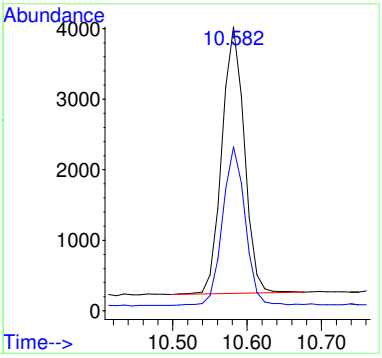


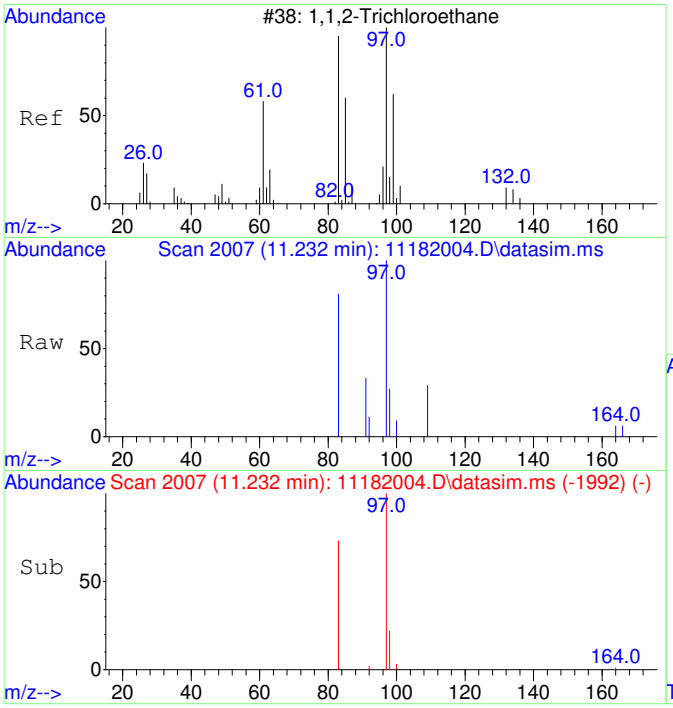


#13
Toluene
Concen: 50.56 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 7861

Ion	Ratio	Lower	Upper
91	100		
92	59.9	29.9	89.9

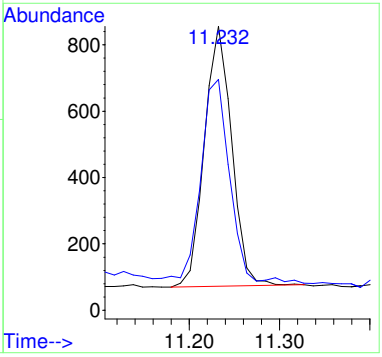


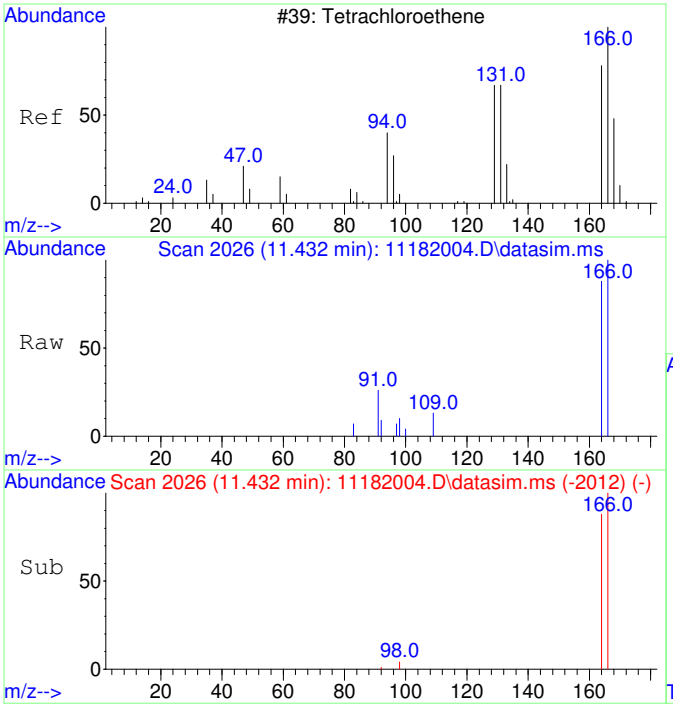


#14
1,1,2-Trichloroethane
Concen: 48.46 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 1642

Ion	Ratio	Lower	Upper
97	100		
83	78.5	51.2	111.2

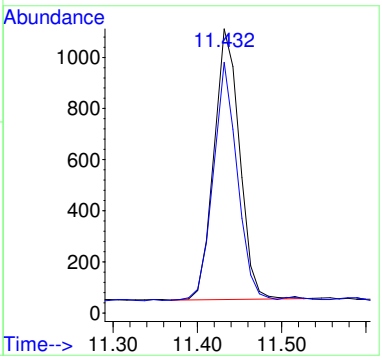


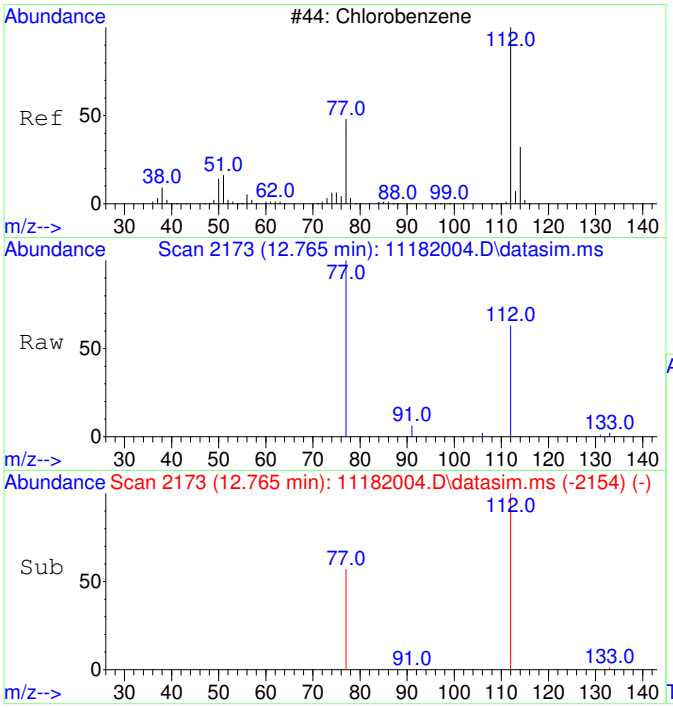


#15
Tetrachloroethene
Concen: 49.82 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:166 Resp: 2242

Ion	Ratio	Lower	Upper
166	100		
164	81.8	47.8	107.8

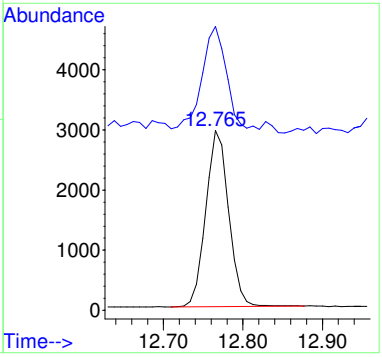


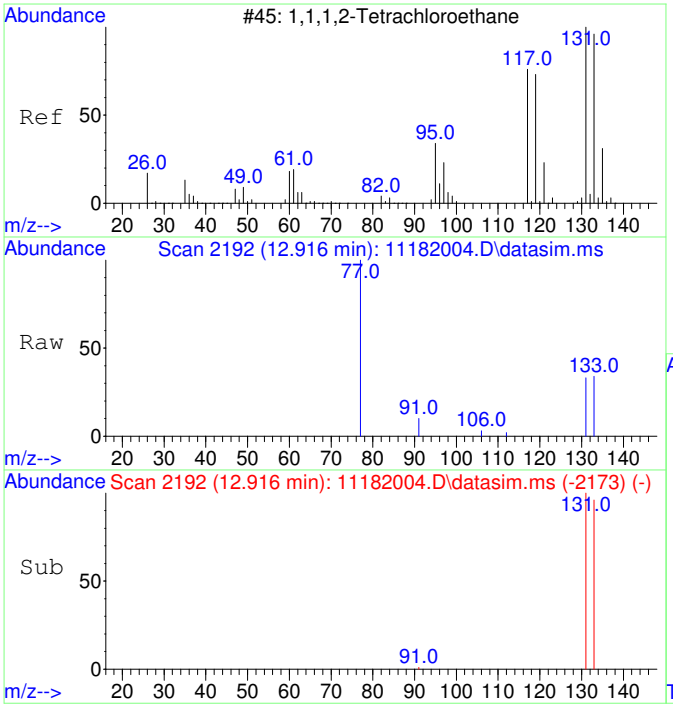


#16
Chlorobenzene
Concen: 52.40 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:112 Resp: 5834

Ion	Ratio	Lower	Upper
112	100		
77	59.9	23.6	83.6

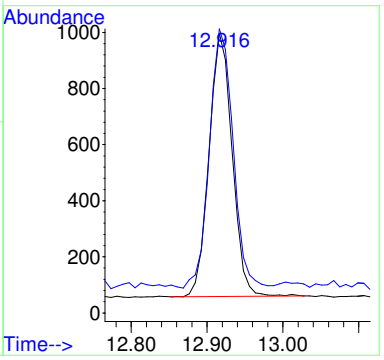


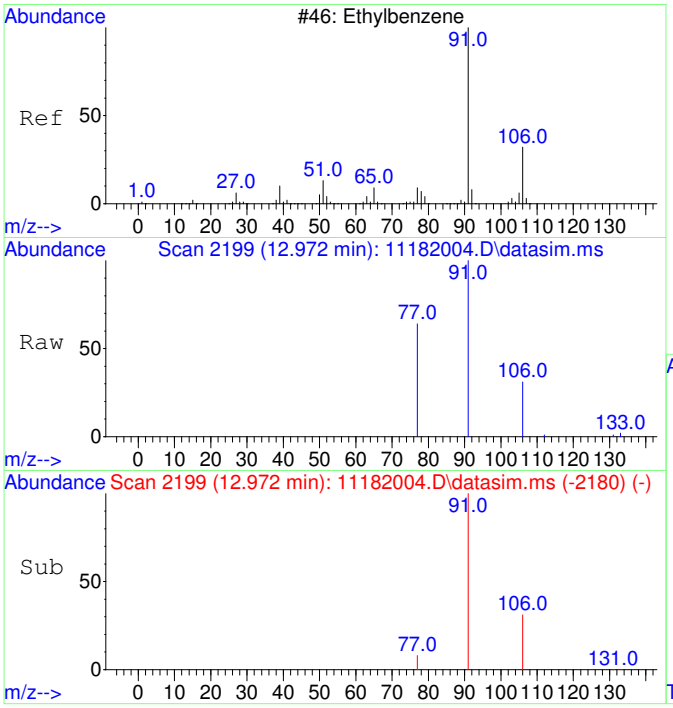


#17
1,1,1,2-Tetrachloroethane
Concen: 49.91 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:131 Resp: 1991

Ion	Ratio	Lower	Upper
131	100		
133	98.9	66.3	126.3

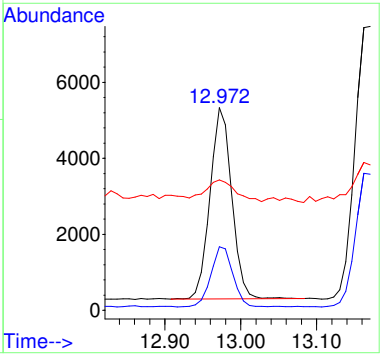


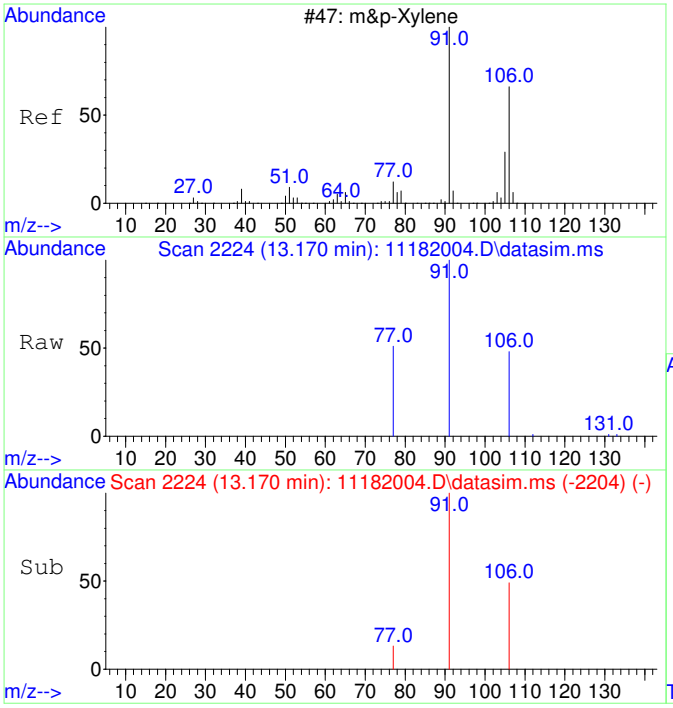


#18
Ethylbenzene
Concen: 52.93 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 10017

Ion	Ratio	Lower	Upper
91	100		
106	31.5	3.0	63.0
77	15.1	0.0	38.2

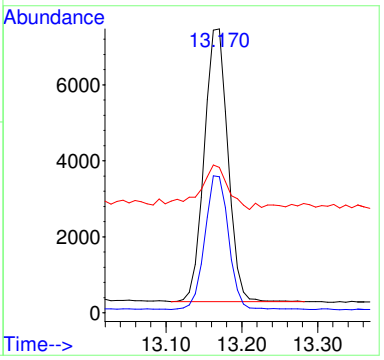


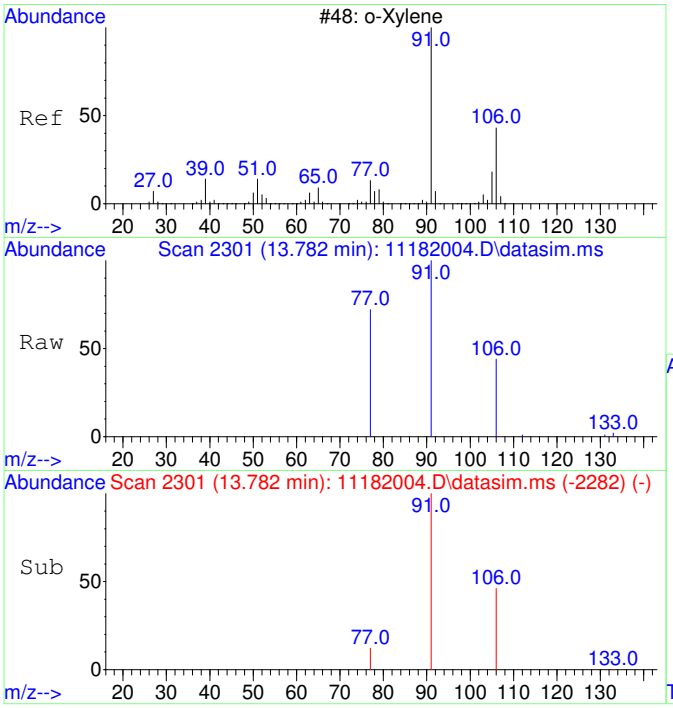


#19
m&p-Xylene
Concen: 104.95 ug/L
RT: 13.170 min Scan# 2224
Delta R.T. 0.008 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 15524

Ion	Ratio	Lower	Upper
91	100		
106	49.2	22.2	82.2
77	20.0	0.0	42.4

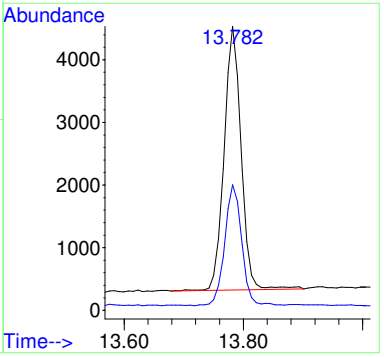


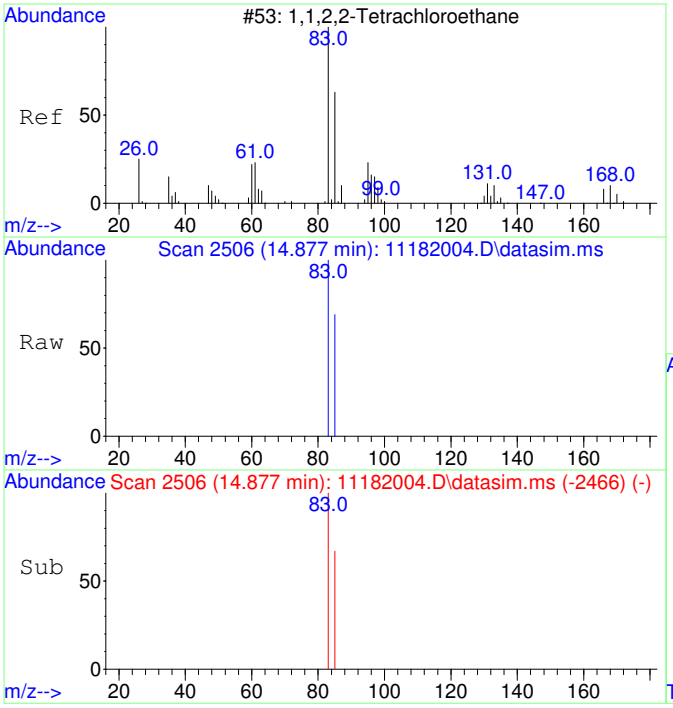


#20
o-Xylene
Concen: 52.79 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 8342

Ion	Ratio	Lower	Upper
91	100		
106	45.4	19.2	79.2

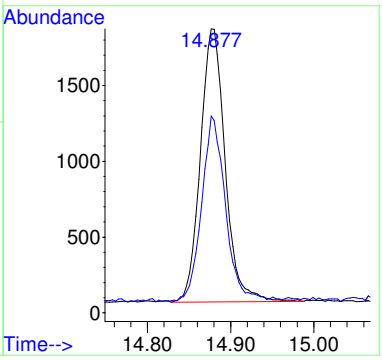


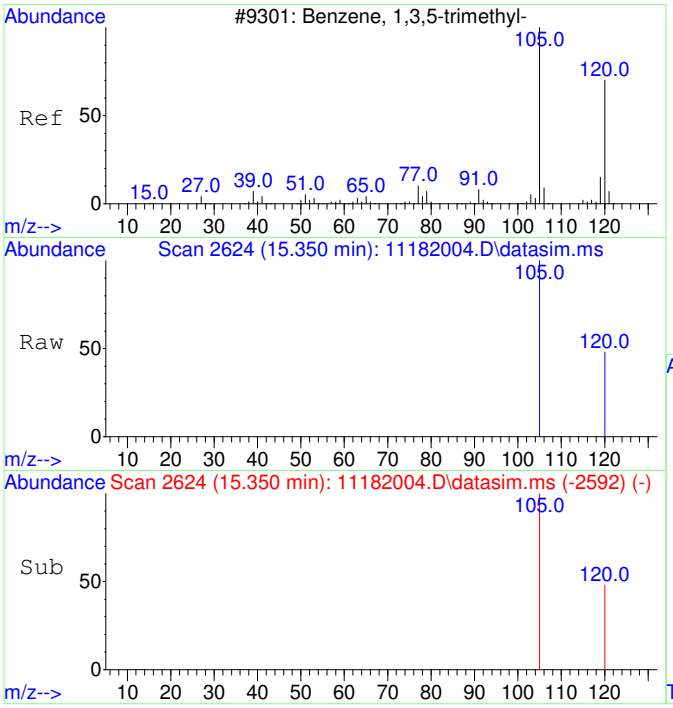


#21
1,1,2,2-Tetrachloroethane
Concen: 53.11 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 3720

Ion	Ratio	Lower	Upper
83	100		
85	63.8	34.8	94.8

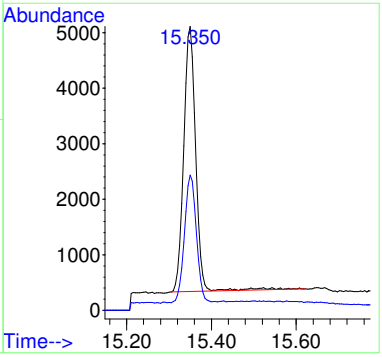


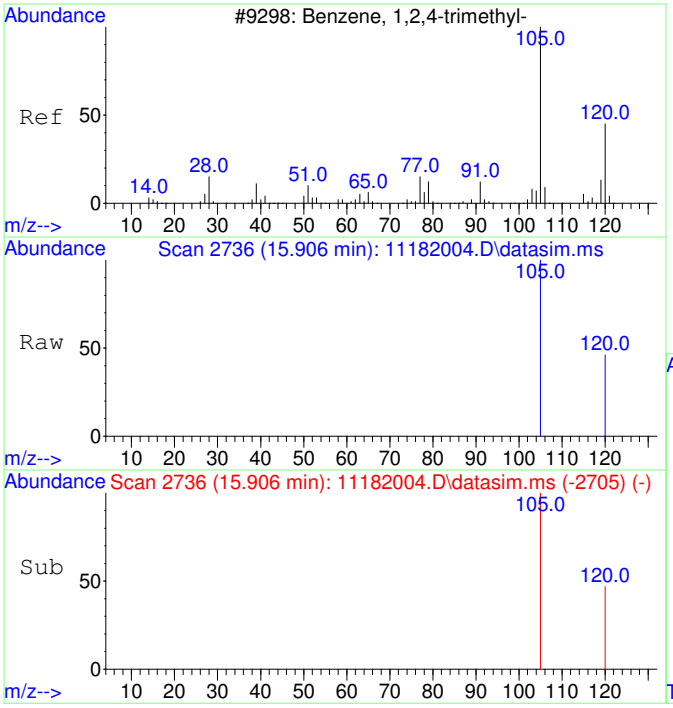


#22
1,3,5-Trimethylbenzene
Concen: 55.49 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 9334

Ion	Ratio	Lower	Upper
105	100		
120	50.7	21.1	81.1

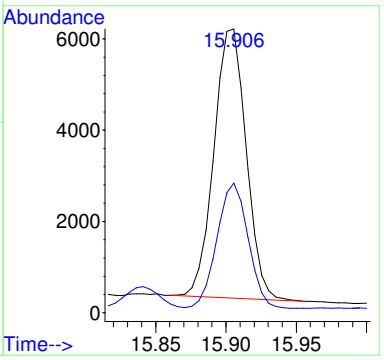


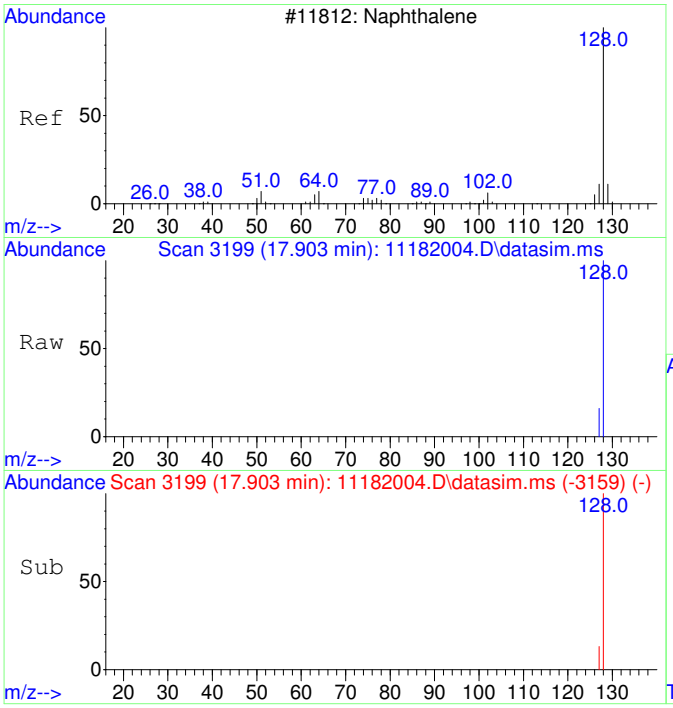


#23
1,2,4-Trimethylbenzene
Concen: 53.69 ug/L
RT: 15.906 min Scan# 2736
Delta R.T. 0.005 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 9381

Ion	Ratio	Lower	Upper
105	100		
120	44.5	17.2	77.2

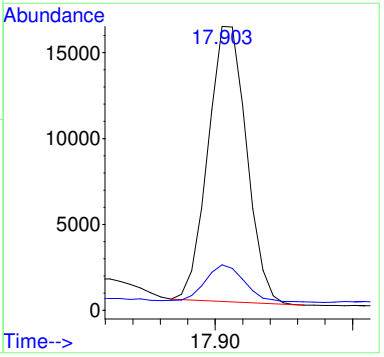


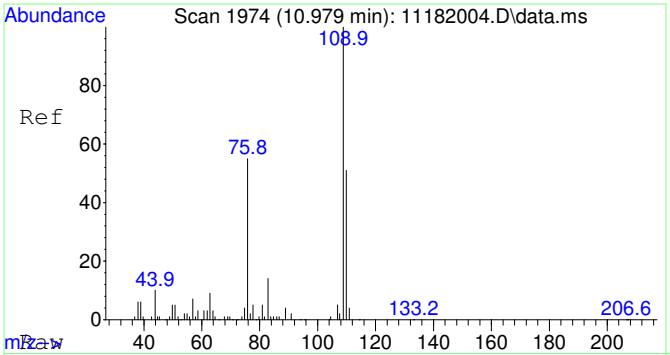


#24
Naphthalene
Concen: 56.32 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:128 Resp: 15551

Ion	Ratio	Lower	Upper
128	100		
127	13.3	0.0	42.5

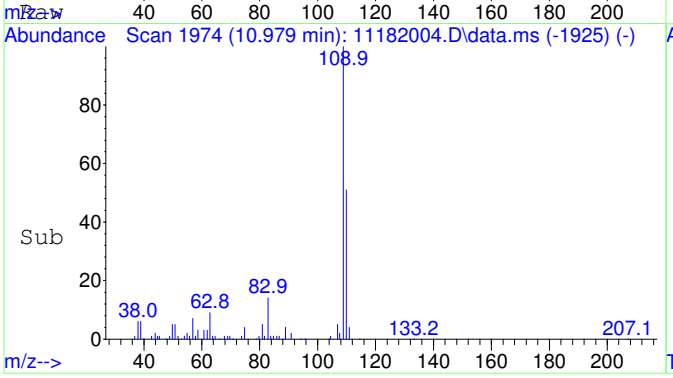


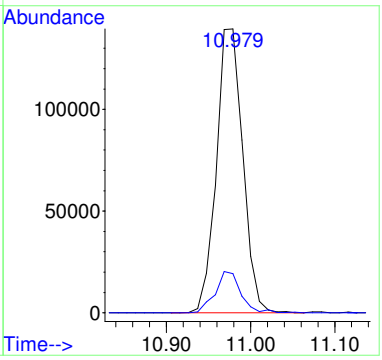


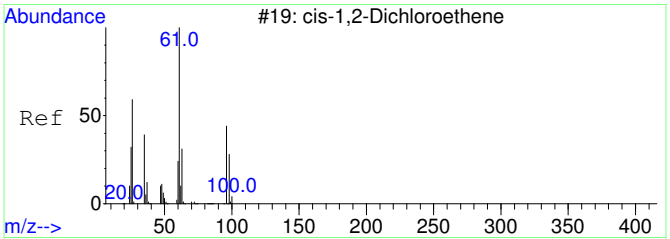
#25
2-Fluorotoluene SCAN
Concen: 5021.41 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:109 Resp: 304957

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	43.8



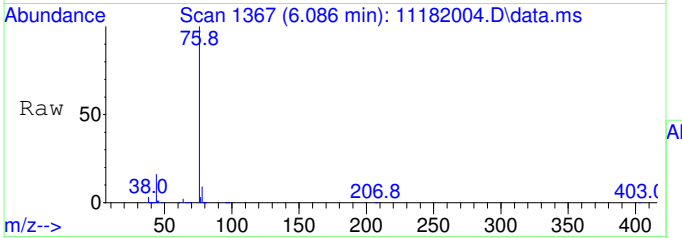


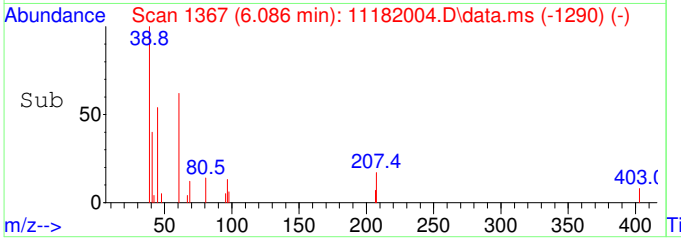


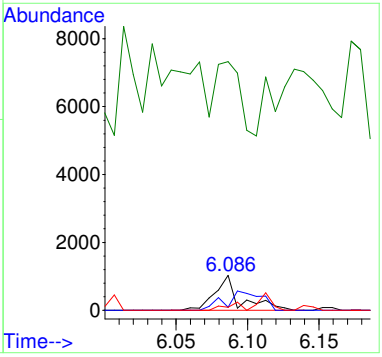
#29
cis-1,2-Dichloroethene SCAN
Concen: 64.13 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

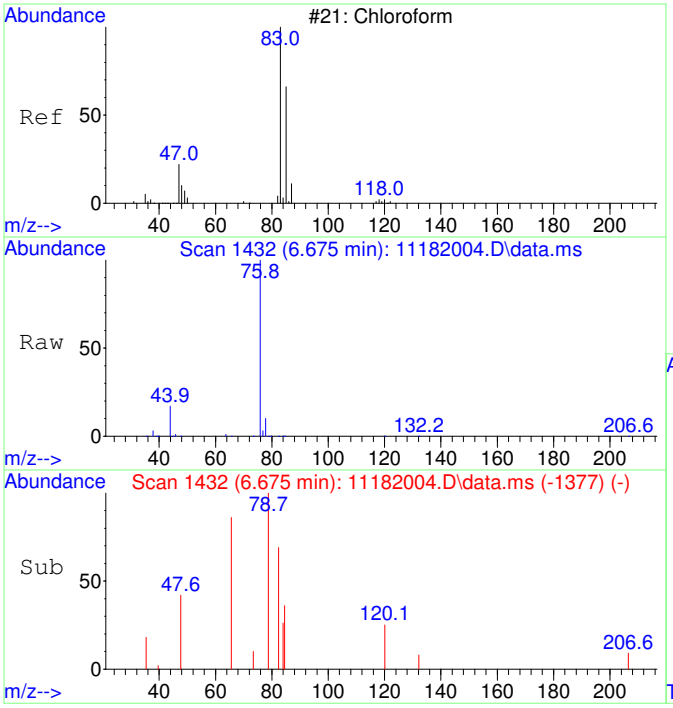
Tgt Ion: 61 Resp: 1269

Ion	Ratio	Lower	Upper
61	100		
96	77.5	39.9	99.9
98	0.0	13.5	73.5#
64	154.5	4.5	64.5#





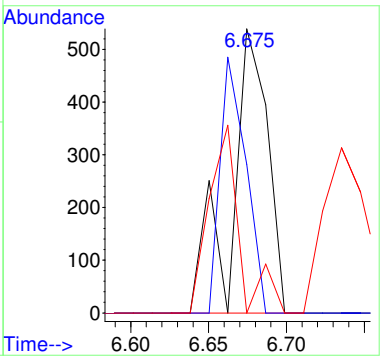


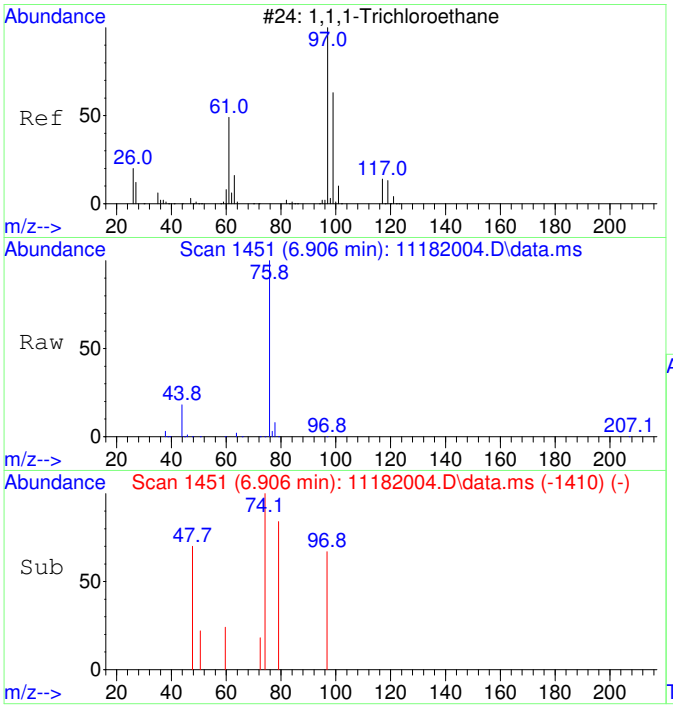


#30
Chloroform SCAN
Concen: 40.30 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.024 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 865

Ion	Ratio	Lower	Upper
83	100		
85	64.7	34.6	94.6
47	56.2	0.0	53.4#

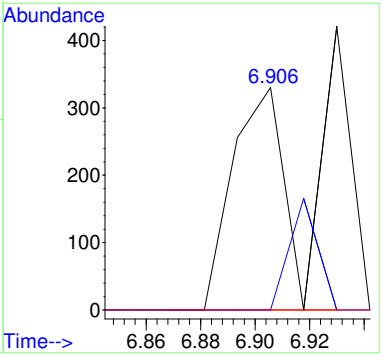


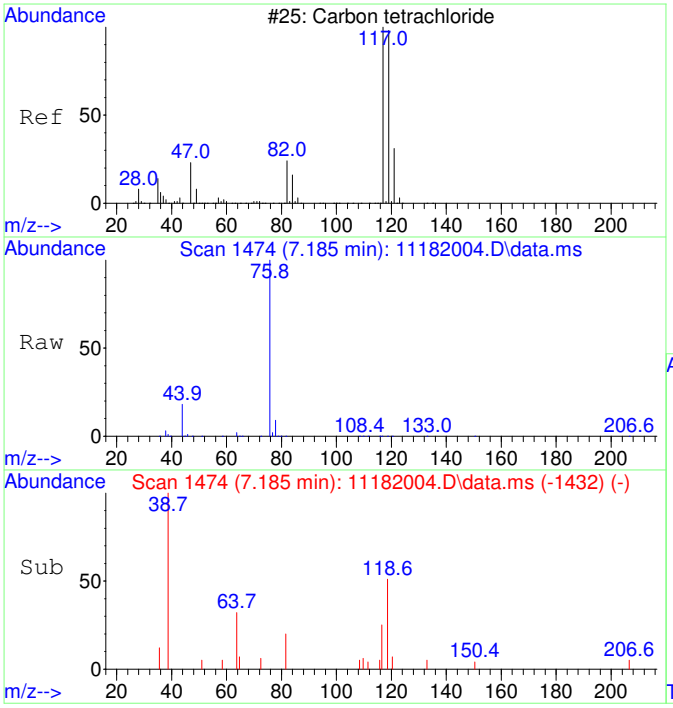


#31
1,1,1-Trichloroethane SCAN
Concen: 21.88 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 428

Ion	Ratio	Lower	Upper
97	100		
99	28.3	43.6	103.6#
61	0.0	18.0	78.0#

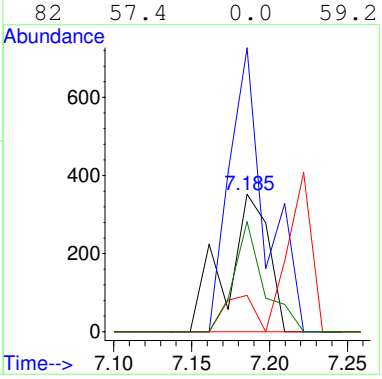


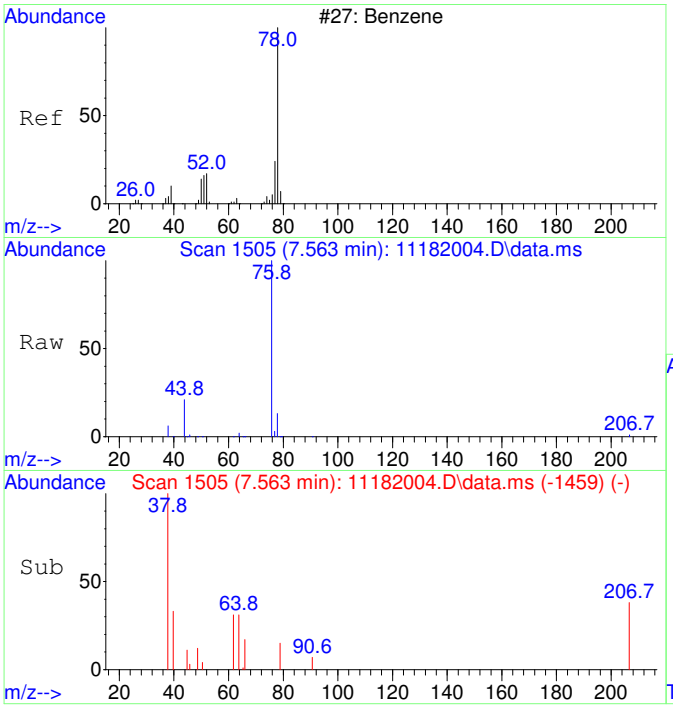


#32
Carbon tetrachloride SCAN
Concen: 32.59 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:117 Resp: 665

Ion	Ratio	Lower	Upper
117	100		
119	178.3	75.5	135.5#
121	0.0	0.0	58.8
82	57.4	0.0	59.2

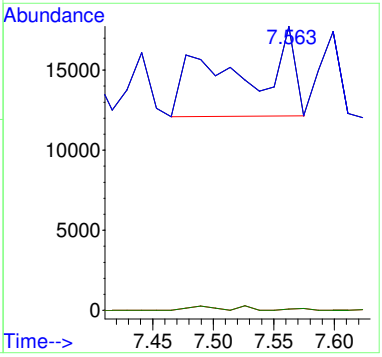


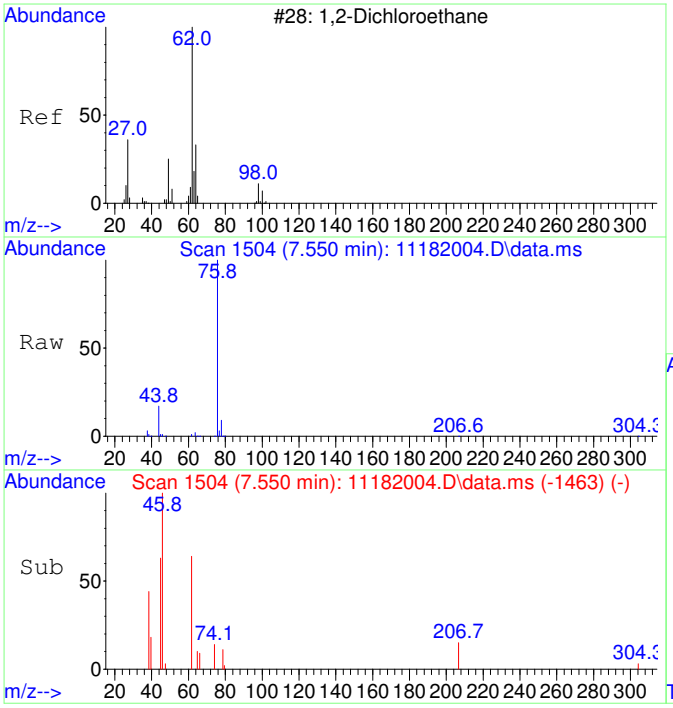


#33
Benzene SCAN
Concen: 328.90 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.061 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 78 Resp: 17713

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.8	0.0	47.9
51	0.8	0.0	44.1

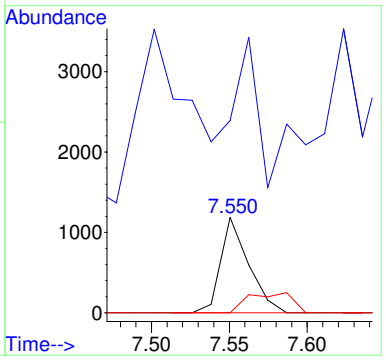


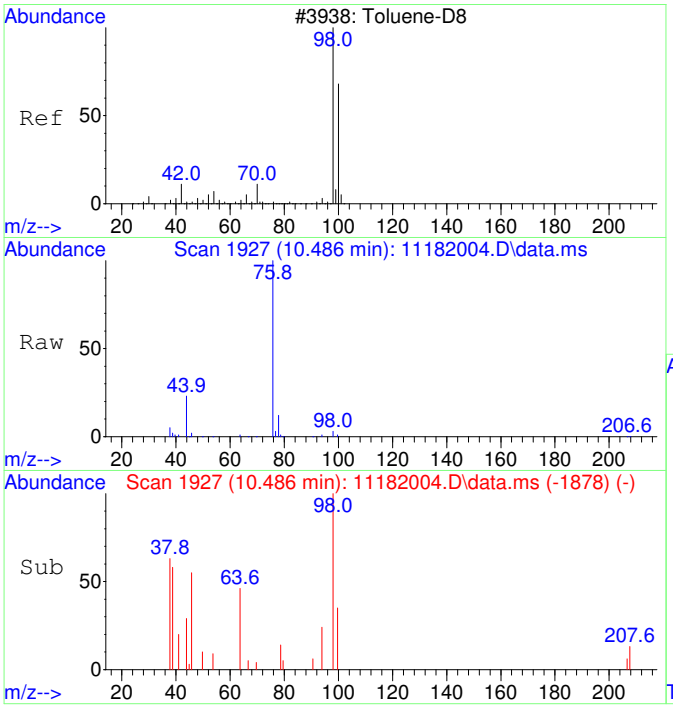


#34
1,2-Dichloroethane SCAN
Concen: 75.13 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 62 Resp: 1494

Ion	Ratio	Lower	Upper
62	100		
64	90.4	5.2	65.2#
49	0.0	3.9	63.9#

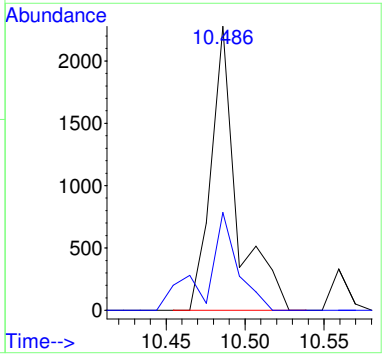


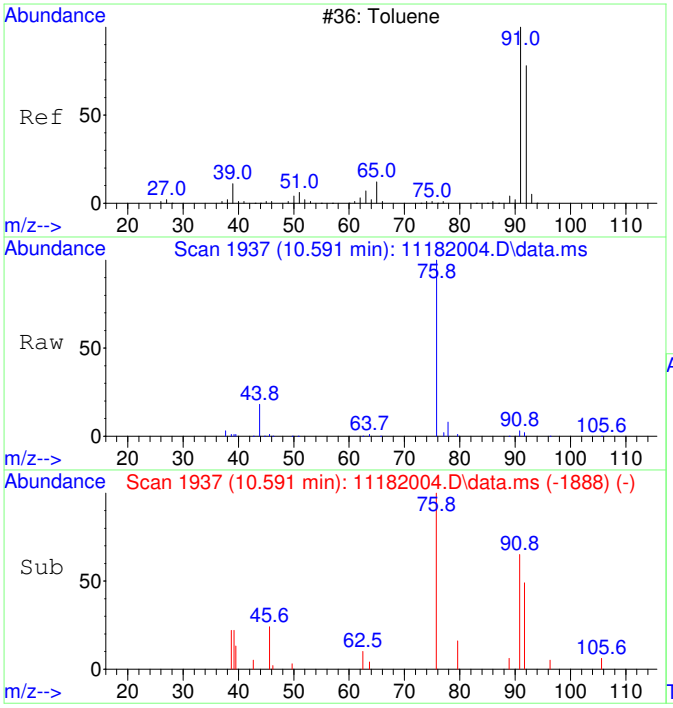


#36
Toluene-d8 SCAN
Concen: 44.11 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 98 Resp: 2620

Ion	Ratio	Lower	Upper
98	100		
100	42.0	40.0	100.0

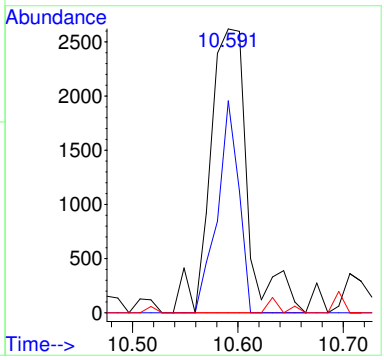


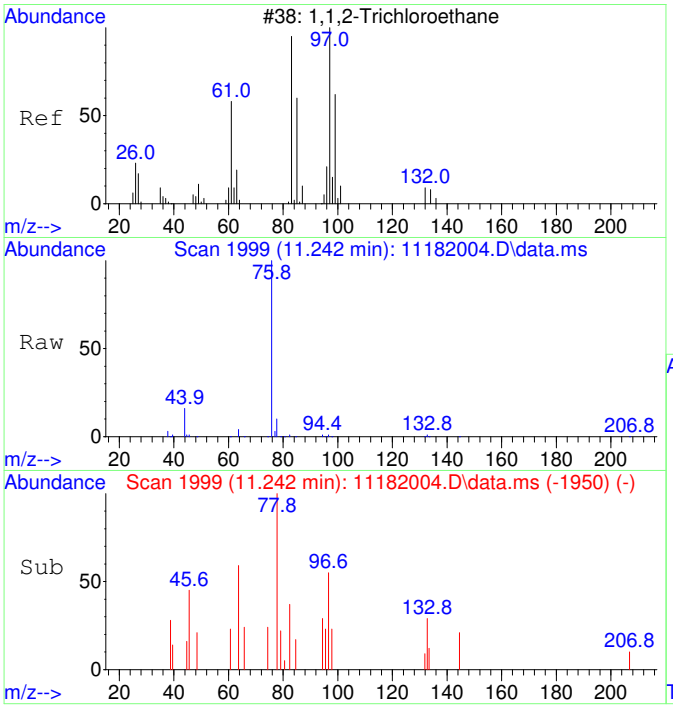


#37
Toluene SCAN
Concen: 85.96 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 6538

Ion	Ratio	Lower	Upper
91	100		
92	42.3	28.3	88.3
65	0.0	0.0	41.0

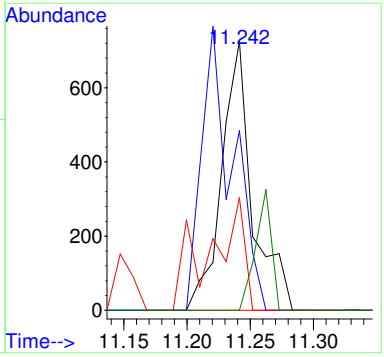


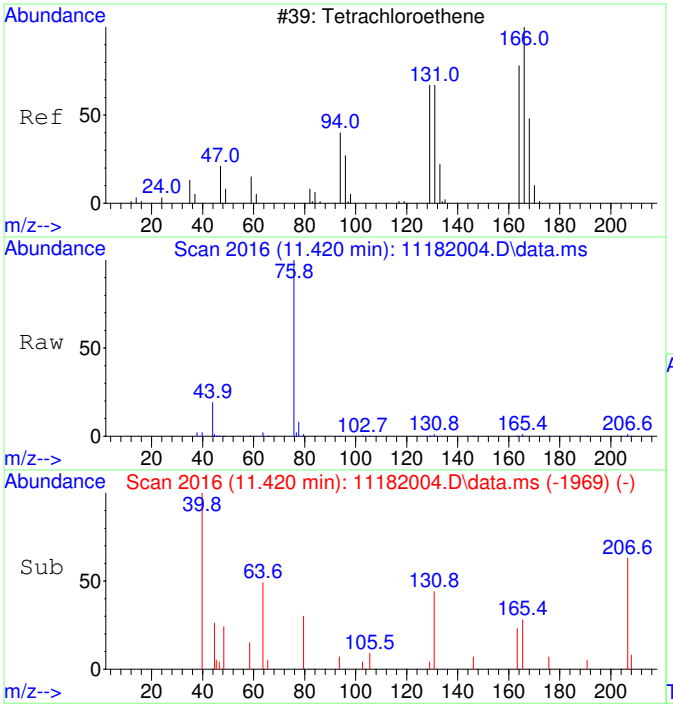


#38
1,1,2-Trichloroethane SCAN
Concen: 71.63 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 1223

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	25.8	32.1	92.1#
99	0.0	36.7	96.7#

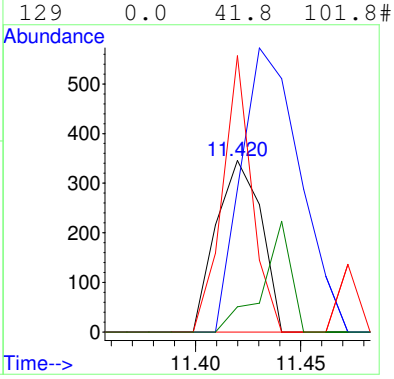


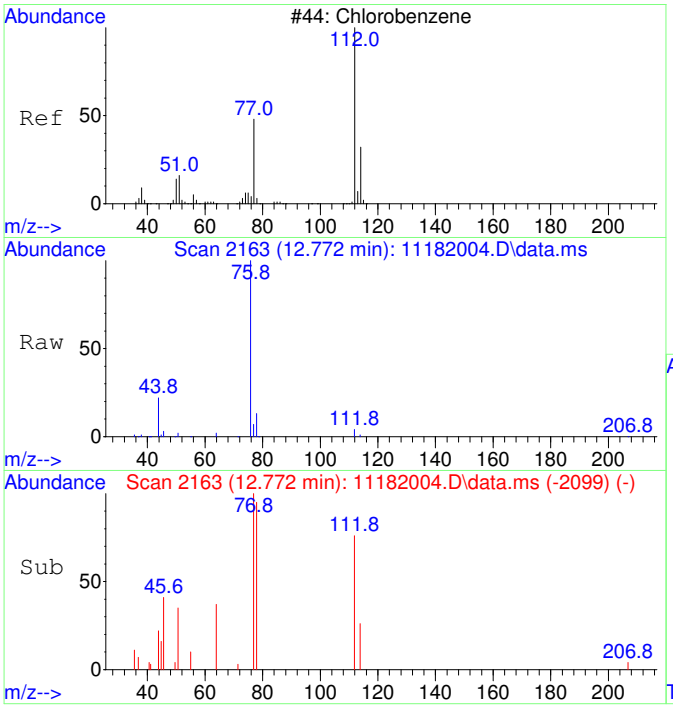


#39
Tetrachloroethene SCAN
Concen: 28.24 ug/L
RT: 11.420 min Scan# 2016
Delta R.T. -0.011 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:166 Resp: 516

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	105.0	38.7	98.7#
129	0.0	41.8	101.8#

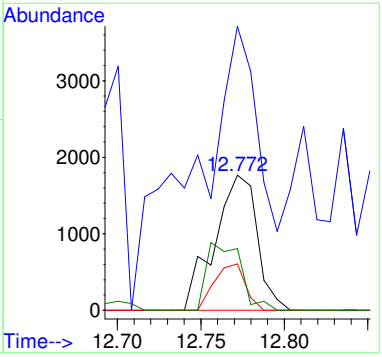


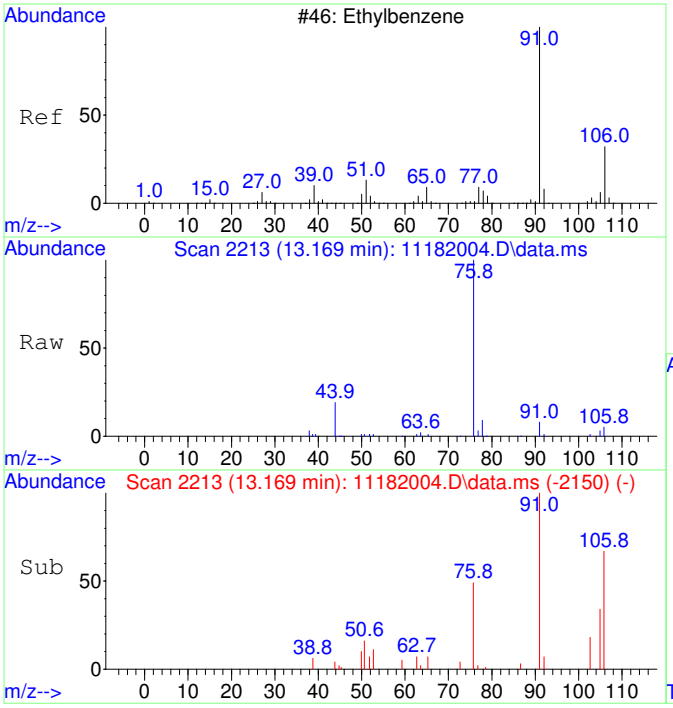


#40
Chlorobenzene SCAN
Concen: 60.38 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:112 Resp: 3138

Ion	Ratio	Lower	Upper
112	100		
77	124.3	28.2	88.2#
114	25.0	2.3	62.3
51	40.4	0.0	50.1

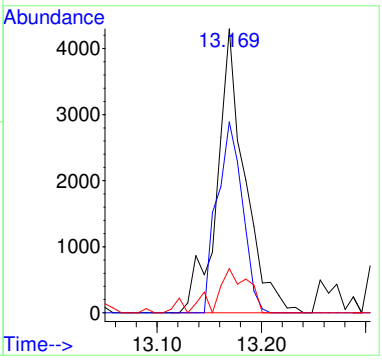


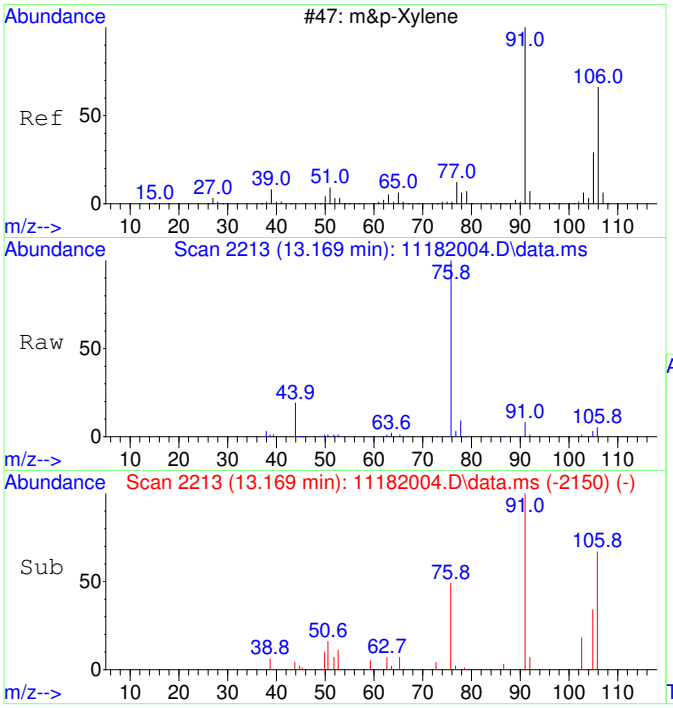


#42
Ethylbenzene SCAN
Concen: 57.51 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 7969

Ion	Ratio	Lower	Upper
91	100		
106	61.4	23.1	83.1
51	17.3	0.0	40.1

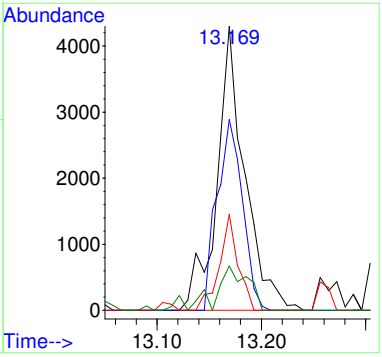


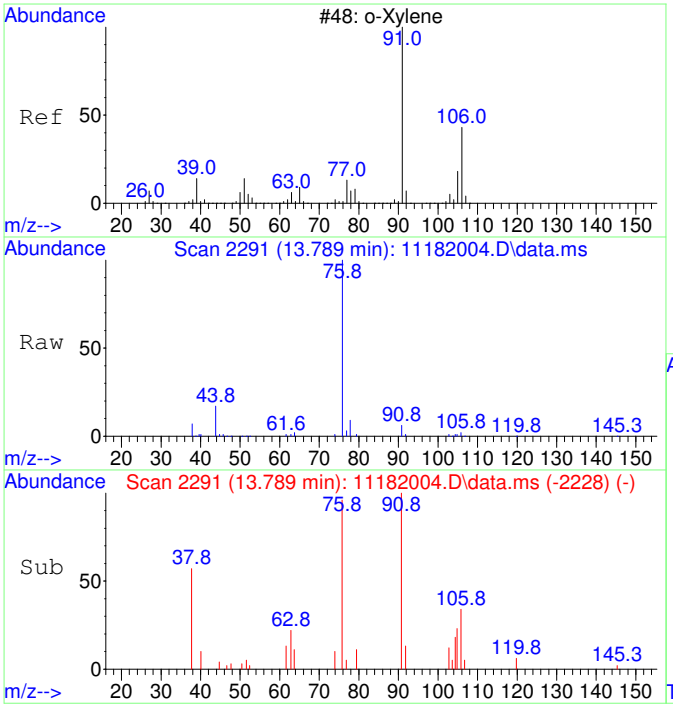


#43
m&p-Xylene SCAN
Concen: 57.51 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 7969

Ion	Ratio	Lower	Upper
91	100		
106	61.4	23.1	83.1
105	22.6	0.0	54.7
51	17.3	0.0	40.1

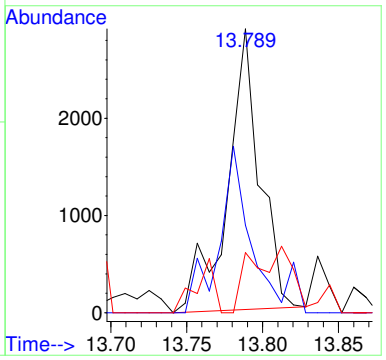


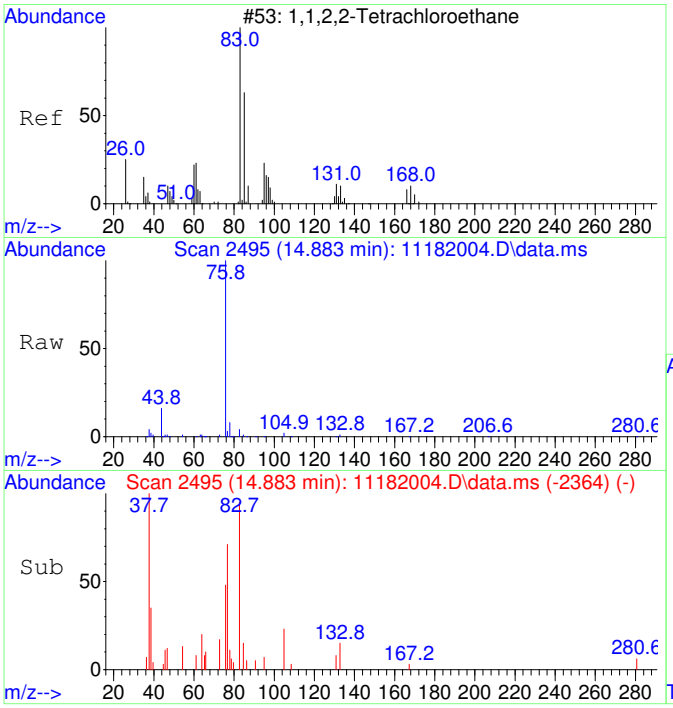


#44
o-Xylene SCAN
Concen: 58.03 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 4304

Ion	Ratio	Lower	Upper
91	100		
106	61.4	18.0	78.0
105	0.0	0.0	56.6

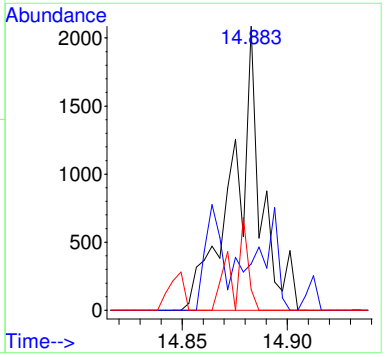


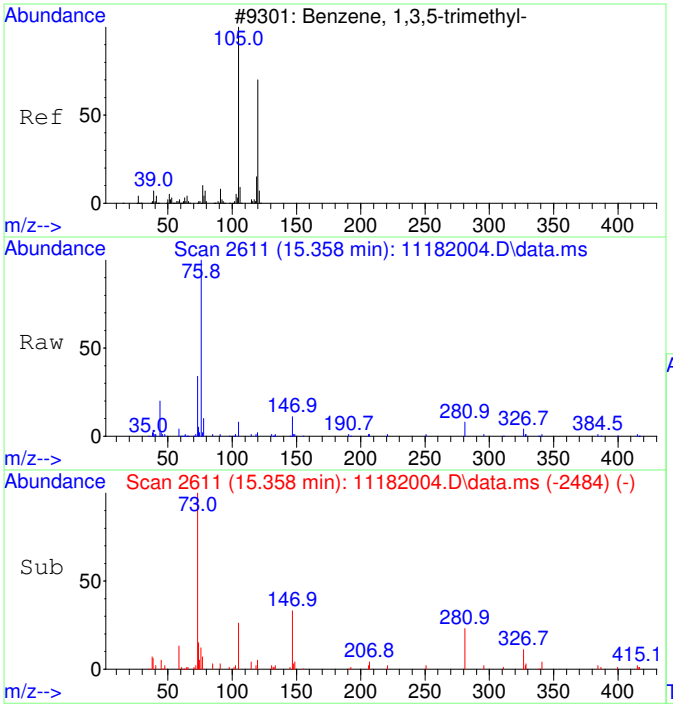


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 52.64 ug/L
RT: 14.883 min Scan# 2495
Delta R.T. 0.011 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 1904

Ion	Ratio	Lower	Upper
83	100		
85	9.0	35.9	95.9#
95	9.7	0.0	47.4

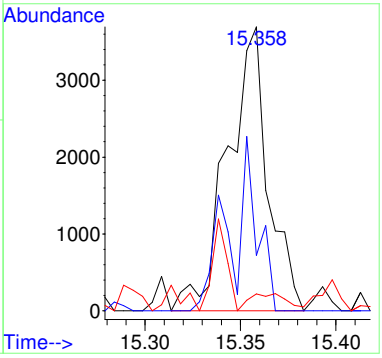


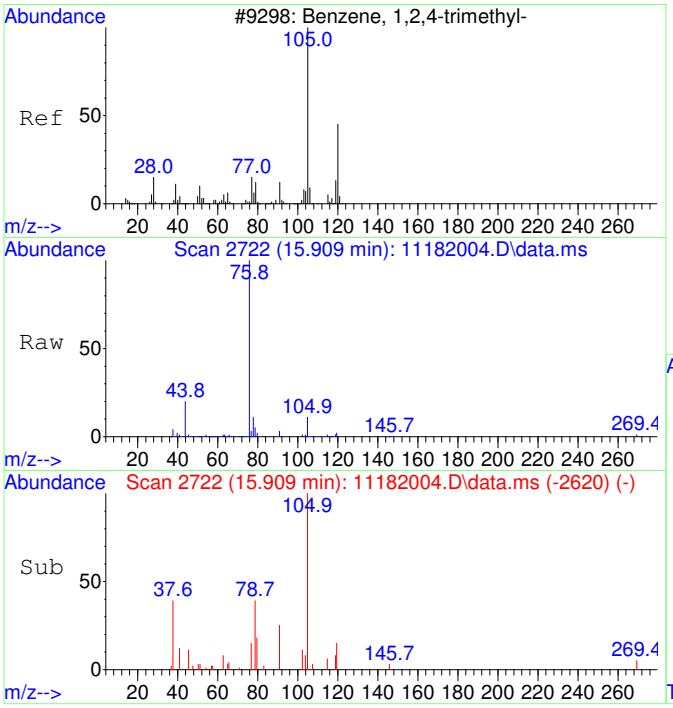


#46
1,3,5-Trimethylbenzene SCAN
Concen: 69.51 ug/L
RT: 15.358 min Scan# 2611
Delta R.T. 0.015 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 5434

Ion	Ratio	Lower	Upper
105	100		
120	20.1	18.3	78.3
119	1.9	0.0	43.1

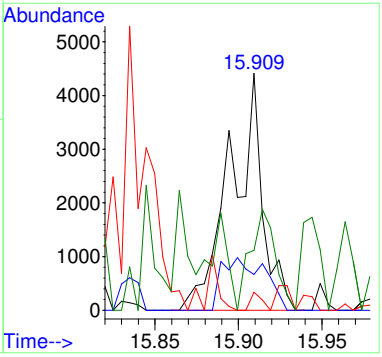


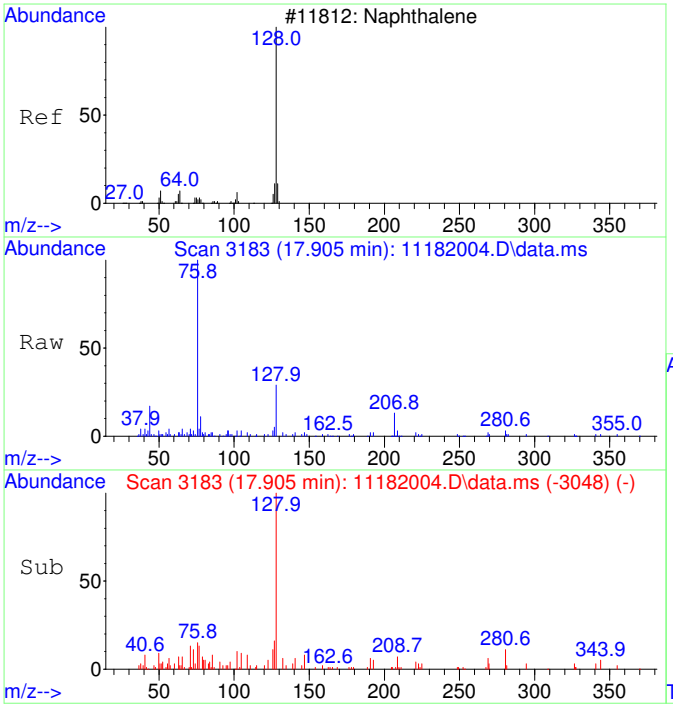


#47
1,2,4-Trimethylbenzene SCAN
Concen: 73.65 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.005 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 5891

Ion	Ratio	Lower	Upper
105	100		
120	29.7	16.9	76.9
119	2.7	0.0	41.9
77	33.1	0.0	42.3

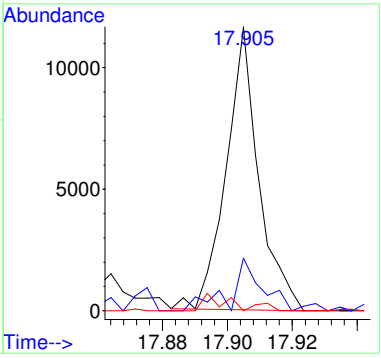




#48
Naphthalene SCAN
Concen: 66.84 ug/L
RT: 17.905 min Scan# 3183
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:128 Resp: 8090

Ion	Ratio	Lower	Upper
128	100		
127	19.9	0.0	44.0
129	5.5	0.0	40.8



2011017-05RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182014.D
Acq On : 18 Nov 2020 14:45
InstName : AG5975C
Operator : TD
Sample : 2011017-05RE1
Misc : 10X DL (180-20)
ALS Vial : 14 Sample Multiplier: 10

Quant Time: Nov 19 06:09:36 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

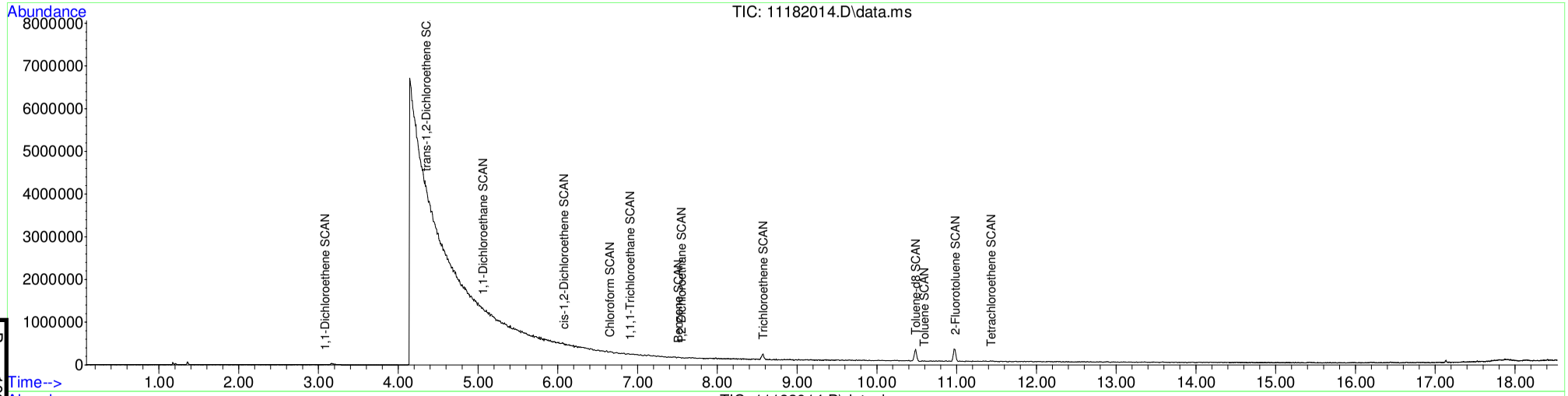
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	506386	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.477	98	412535	4161.53	ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 83.23%#				
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.086	61	1312	64.88	ug/L		84
3] trans-1,2-Dichloroethene	4.336	61	1173	50.21	ug/L		84
4] 1,1-Dichloroethane	5.066	63	1071	36.83	ug/L	#	3
5] cis-1,2-Dichloroethene	6.074	61	21204	690.73	ug/L		99
6] Chloroform	6.639	83	29059	924.84	ug/L		99
7] 1,1,1-Trichloroethane	6.907	97	833	24.41	ug/L		99
9] Benzene	7.503	78	2499	29.05	ug/L	#	1
11] Trichloroethene	8.569	130	88836	3429.32	ug/L	RPT	95
13] Toluene	10.582	91	3379	26.74	ug/L		99
15] Tetrachloroethene	11.432	166	4640	126.86	ug/L		99
25) 2-Fluorotoluene SCAN	10.979	109	243495	4932.71	ug/L		98
26) 1,1-Dichloroethene SCAN	3.081	61	345	32.91	ug/L	#	36
27) trans-1,2-Dichloroethe...	4.348	61	333	25.67	ug/L	#	70
28) 1,1-Dichloroethane SCAN	5.065	63	547	36.44	ug/L	#	1
29) cis-1,2-Dichloroethene...	6.073	61	13356	830.34	ug/L	#	85
30) Chloroform SCAN	6.650	83	15374	881.21	ug/L		82
31) 1,1,1-Trichloroethane ...	6.906	97	401	25.22	ug/L	#	8
33) Benzene SCAN	7.514	78	13859	316.60	ug/L		92
34) 1,2-Dichloroethane SCAN	7.550	62	555	34.34	ug/L	#	31
35) Trichloroethene SCAN	8.574	130	44031	3660.22	ug/L		90
36) Toluene-d8 SCAN	10.486	98	196626	4072.97	ug/L		98
37) Toluene SCAN	10.591	91	2847	46.05	ug/L		66
39) Tetrachloroethene SCAN	11.430	166	1619	109.00	ug/L	#	55

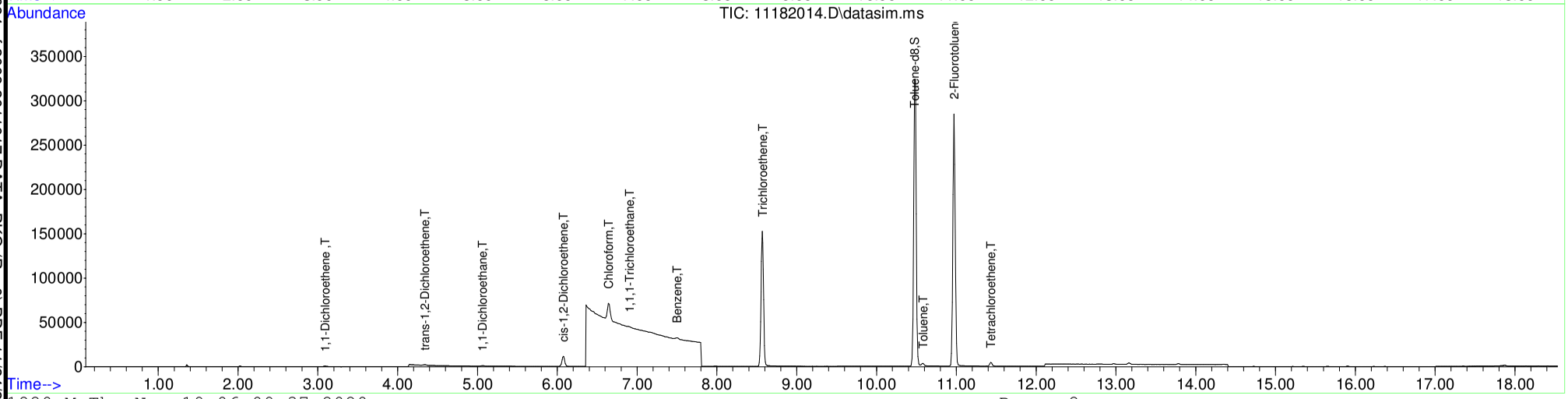
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182014.D
Acq On : 18 Nov 2020 14:45
InstName : AG5975C
Operator : TD
Sample : 2011017-05RE1
Misc : 10X DL (180-20)
ALS Vial : 14 Sample Multiplier: 10

Quant Time: Nov 19 06:09:36 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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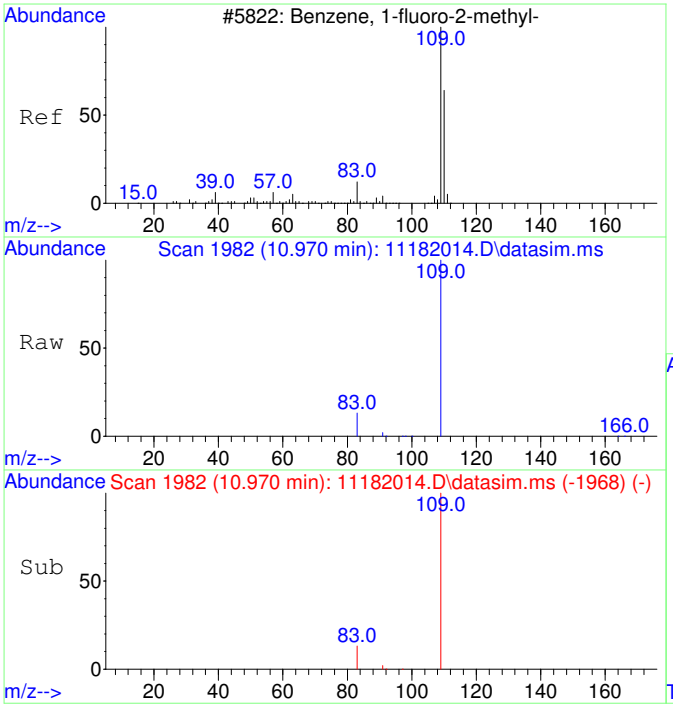
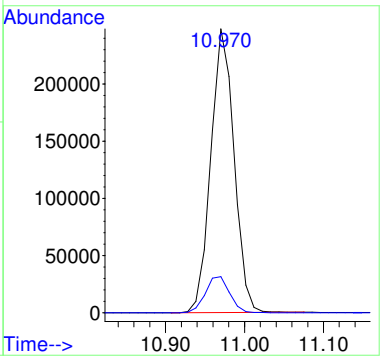
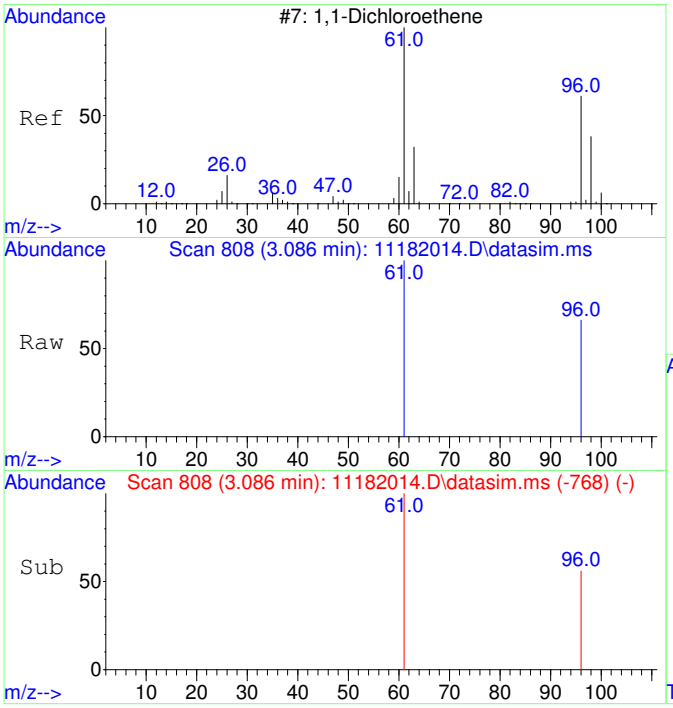


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion:109 Resp: 506386

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

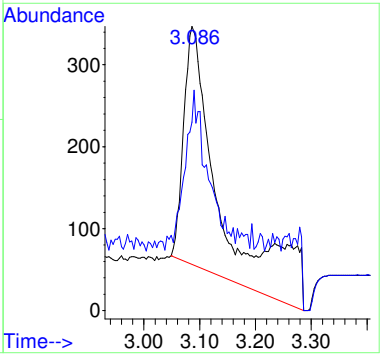


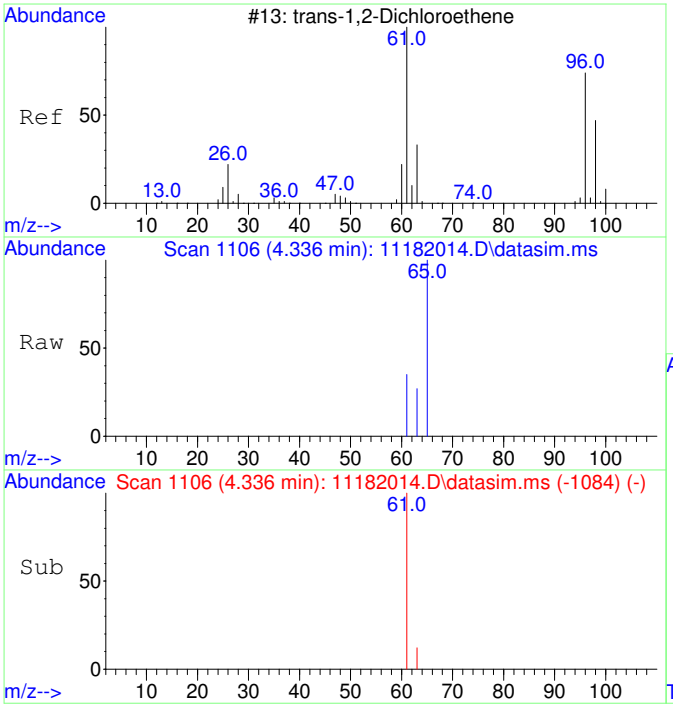


#2
1,1-Dichloroethene
Concen: 64.88 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 61 Resp: 1312

Ion	Ratio	Lower	Upper
61	100		
96	54.5	37.2	97.2

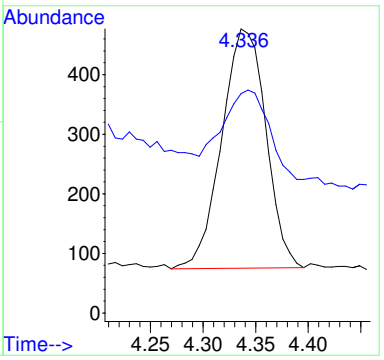


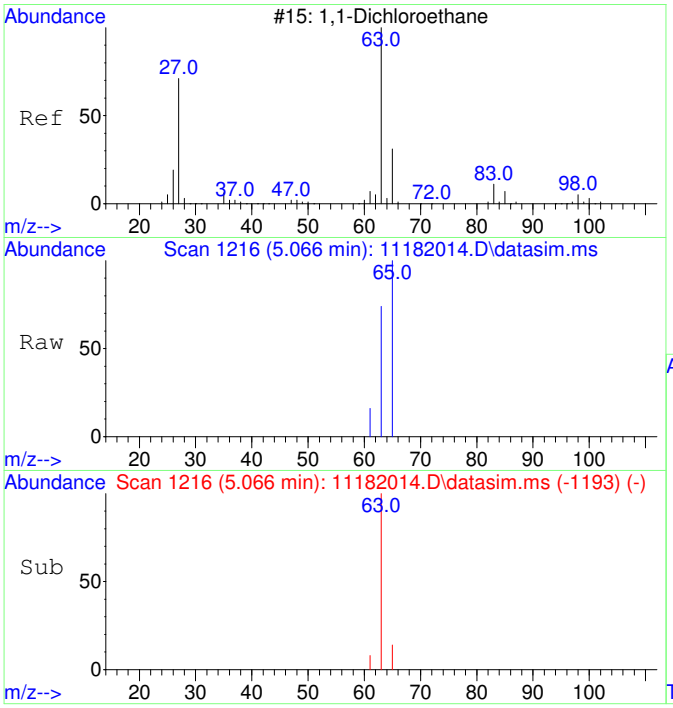


#3
trans-1,2-Dichloroethene
Concen: 50.21 ug/L
RT: 4.336 min Scan# 1106
Delta R.T. -0.007 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 61 Resp: 1173

Ion	Ratio	Lower	Upper
61	100		
63	41.3	2.4	62.4

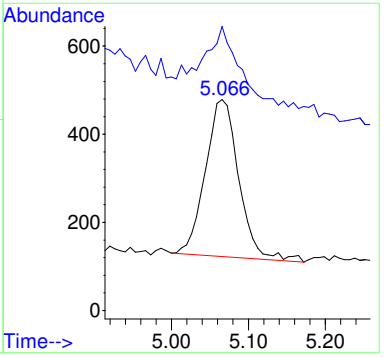


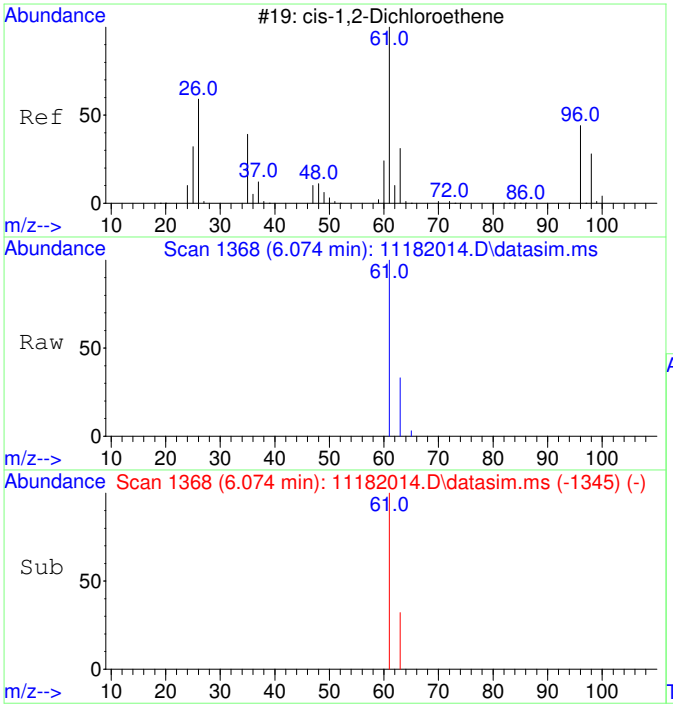


#4
1,1-Dichloroethane
Concen: 36.83 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 63 Resp: 1071

Ion	Ratio	Lower	Upper
63	100		
65	85.6	1.8	61.8#

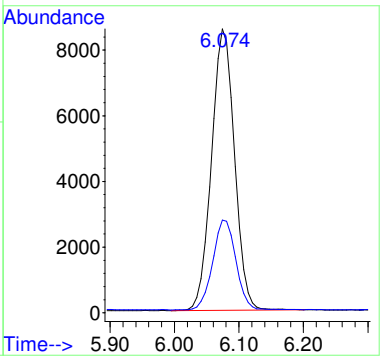


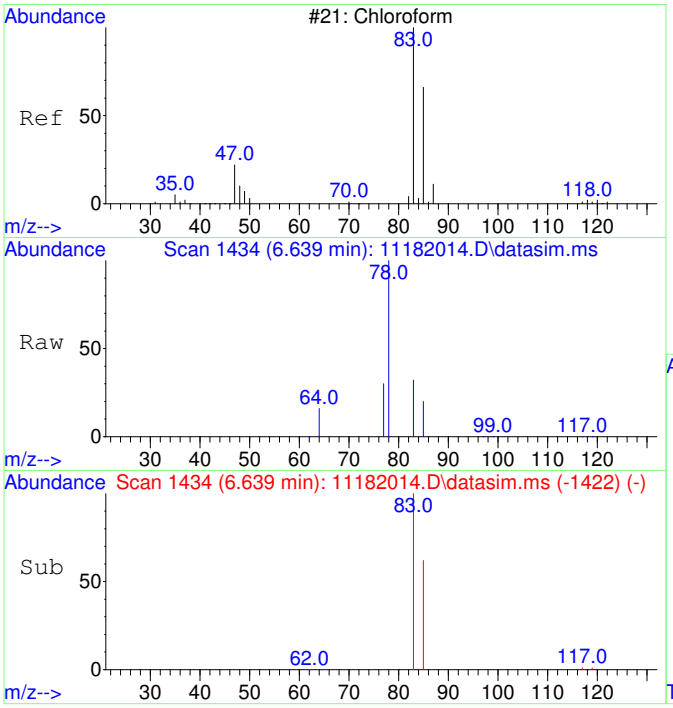


#5
cis-1,2-Dichloroethene
Concen: 690.73 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 61 Resp: 21204

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

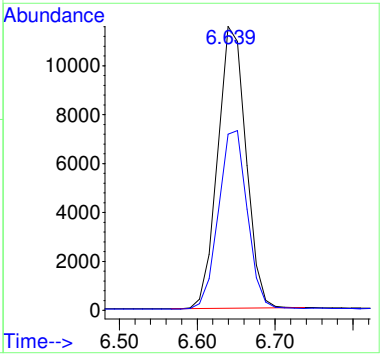


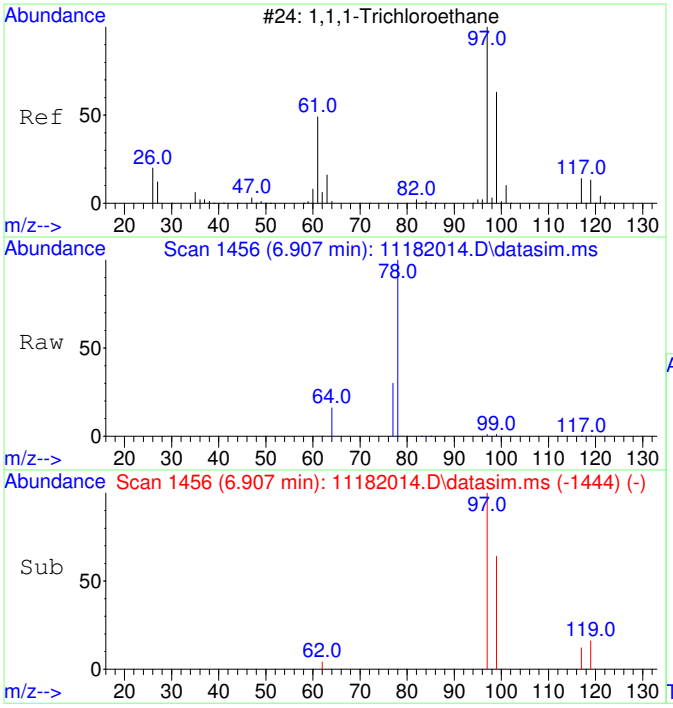


#6
Chloroform
Concen: 924.84 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 83 Resp: 29059

Ion	Ratio	Lower	Upper
83	100		
85	64.3	35.1	95.1

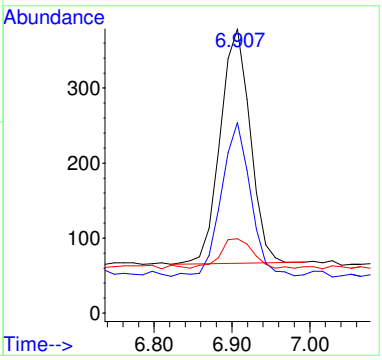


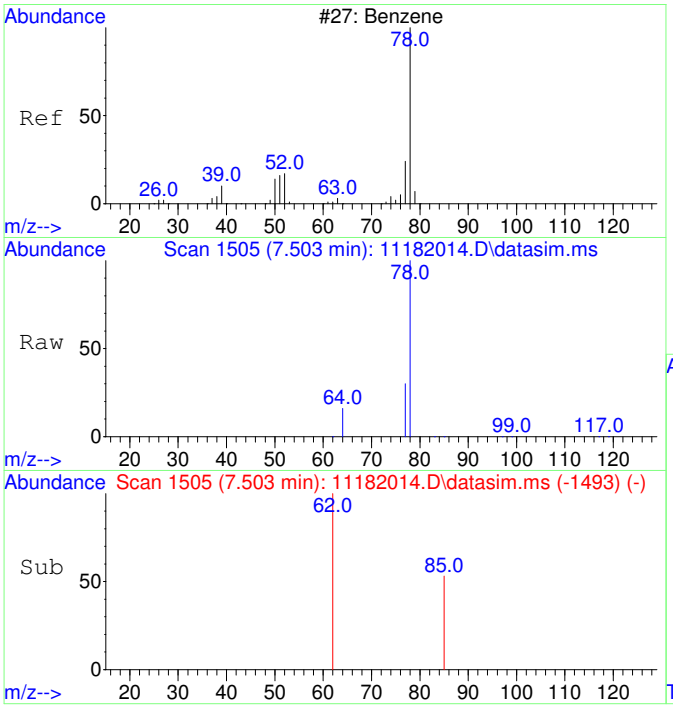


#7
1,1,1-Trichloroethane
Concen: 24.41 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 97 Resp: 833

Ion	Ratio	Lower	Upper
97	100		
99	63.7	34.6	94.6
117	13.6	0.0	43.2

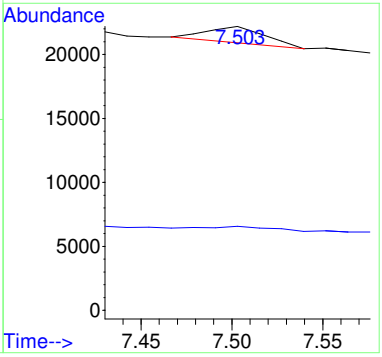


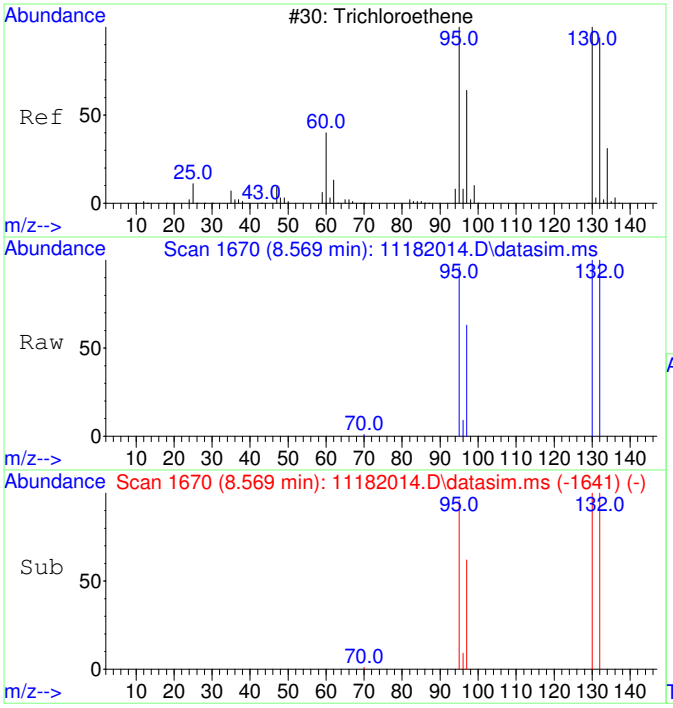


#9
Benzene
Concen: 29.05 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 78 Resp: 2499

Ion	Ratio	Lower	Upper
78	100		
77	86.6	0.0	53.2#

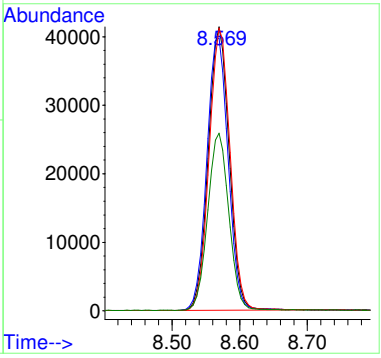


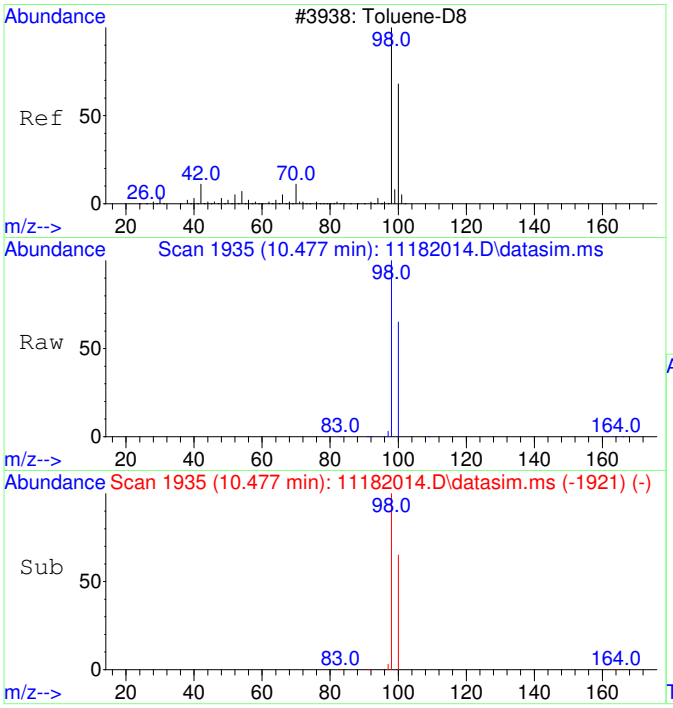


#11
Trichloroethene
Concen: 3429.32 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion:130 Resp: 88836

Ion	Ratio	Lower	Upper
130	100		
95	97.8	60.7	120.7
132	99.0	76.0	116.0
97	62.8	38.6	78.6

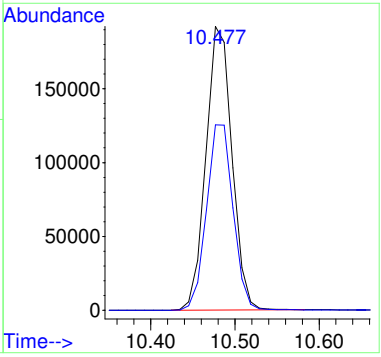


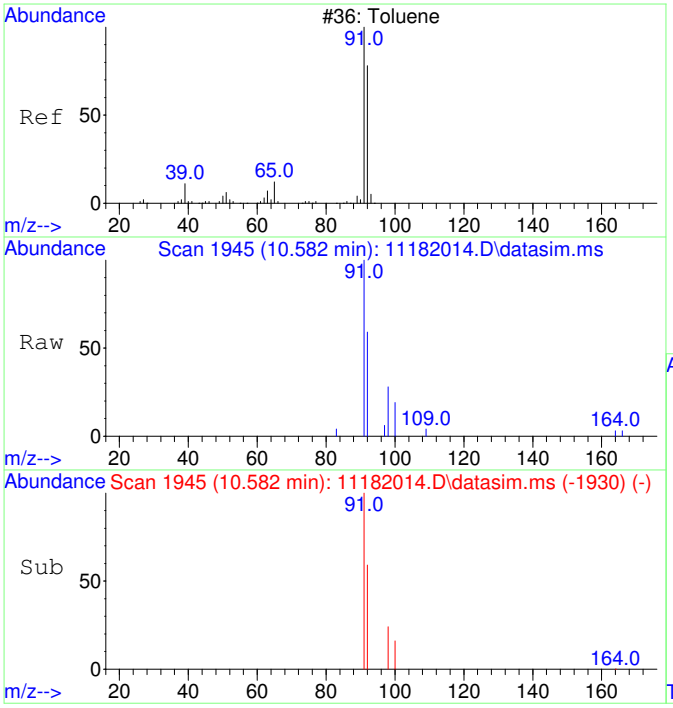


#12
Toluene-d8
Concen: 4161.53 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 98 Resp: 412535

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

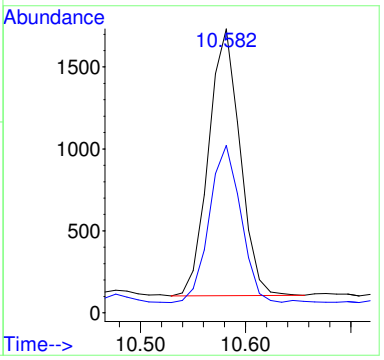


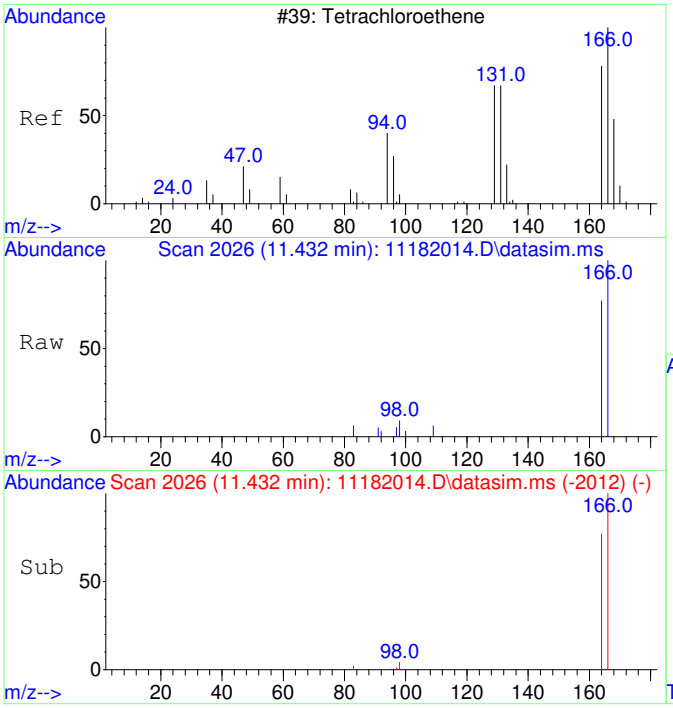


#13
Toluene
Concen: 26.74 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 91 Resp: 3379

Ion	Ratio	Lower	Upper
91	100		
92	59.1	29.9	89.9

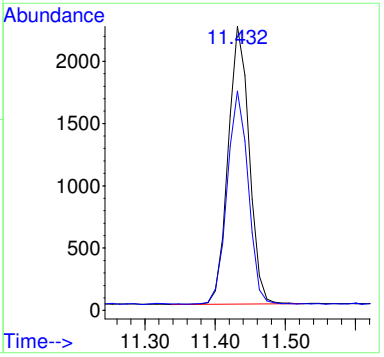


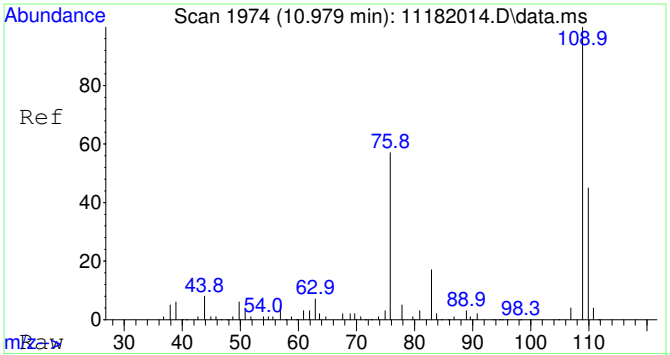


#15
Tetrachloroethene
Concen: 126.86 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion:166 Resp: 4640

Ion	Ratio	Lower	Upper
166	100		
164	76.7	47.8	107.8

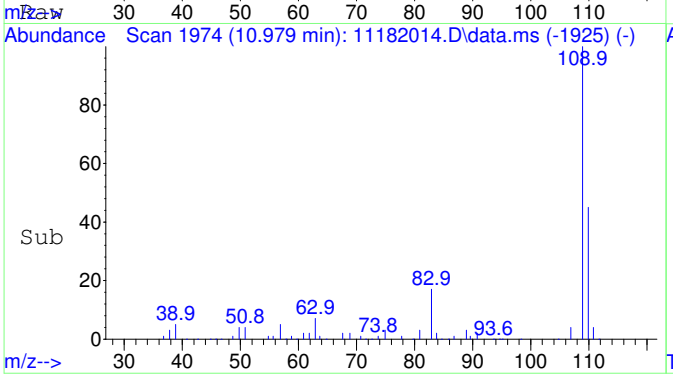


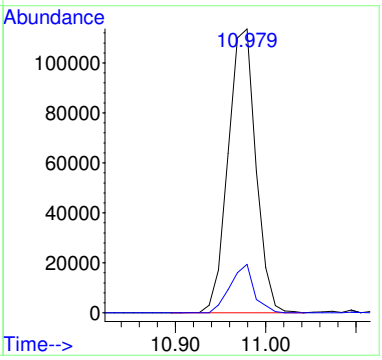


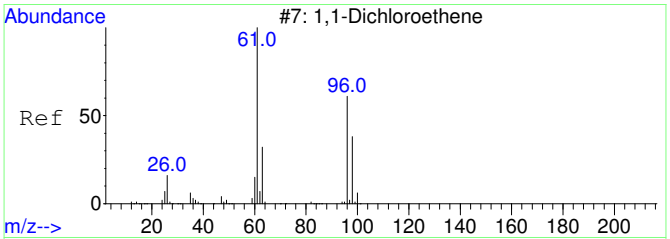
#25
2-Fluorotoluene SCAN
Concen: 4932.71 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion:109 Resp: 243495

Ion	Ratio	Lower	Upper
109	100		
83	14.7	0.0	43.8



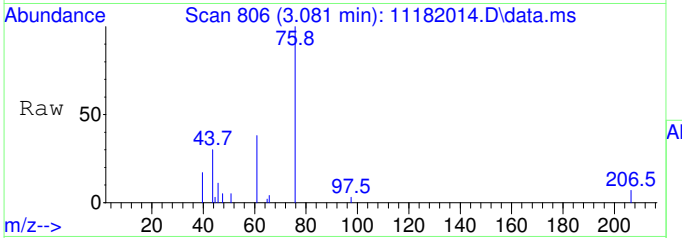


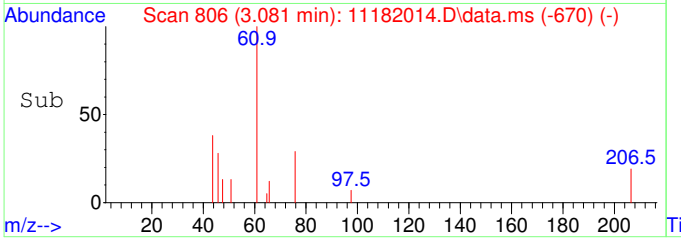


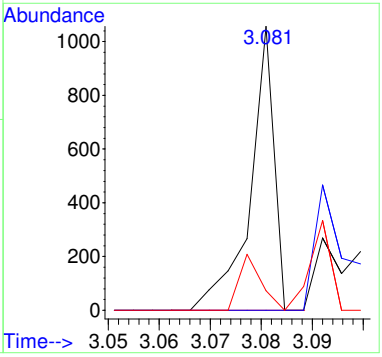
#26
1,1-Dichloroethene SCAN
Concen: 32.91 ug/L
RT: 3.081 min Scan# 806
Delta R.T. 0.004 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

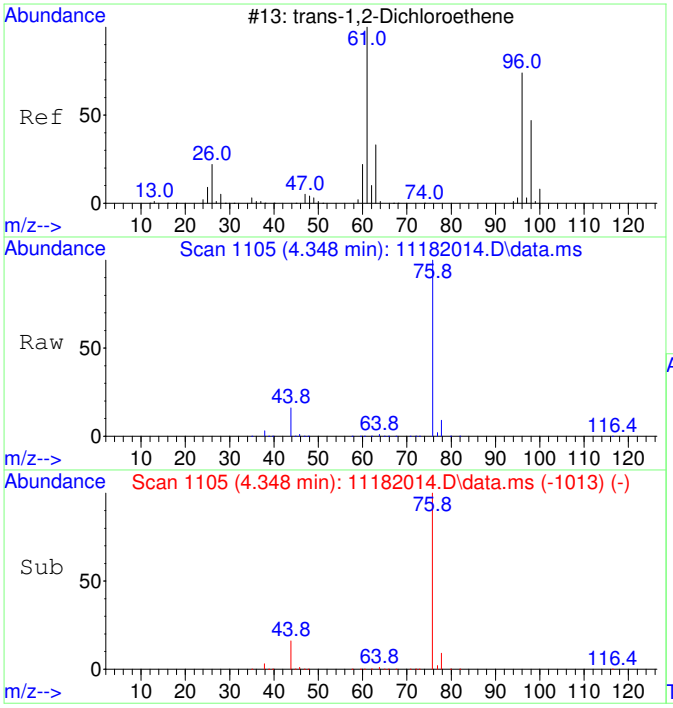
Tgt Ion: 61 Resp: 345

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.1	93.1#
98	18.3	11.2	71.2





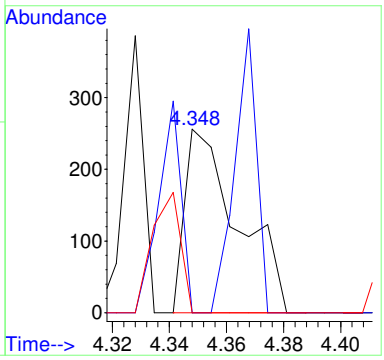


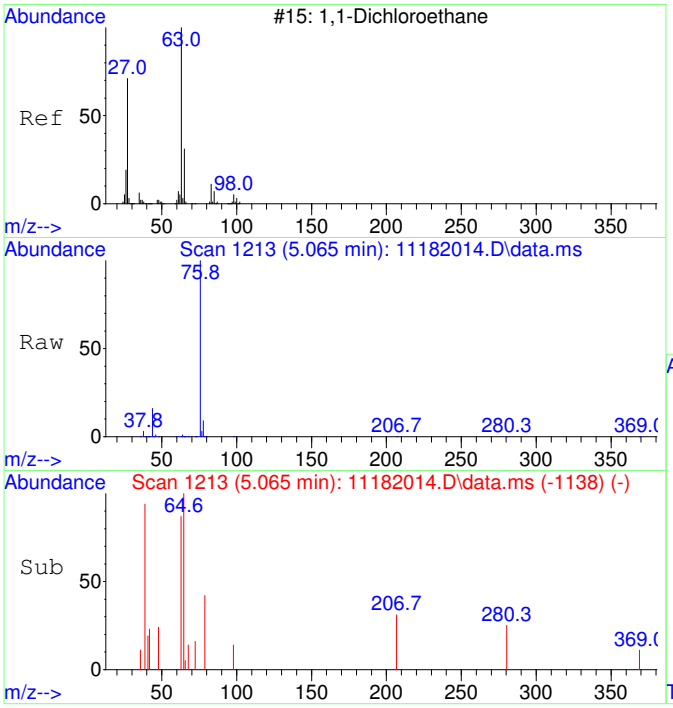


#27
trans-1,2-Dichloroethene SCAN
Concen: 25.67 ug/L
RT: 4.348 min Scan# 1105
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 61 Resp: 333

Ion	Ratio	Lower	Upper
61	100		
96	48.6	49.0	109.0#
98	34.5	20.5	80.5

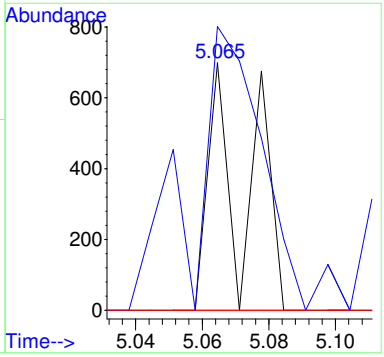


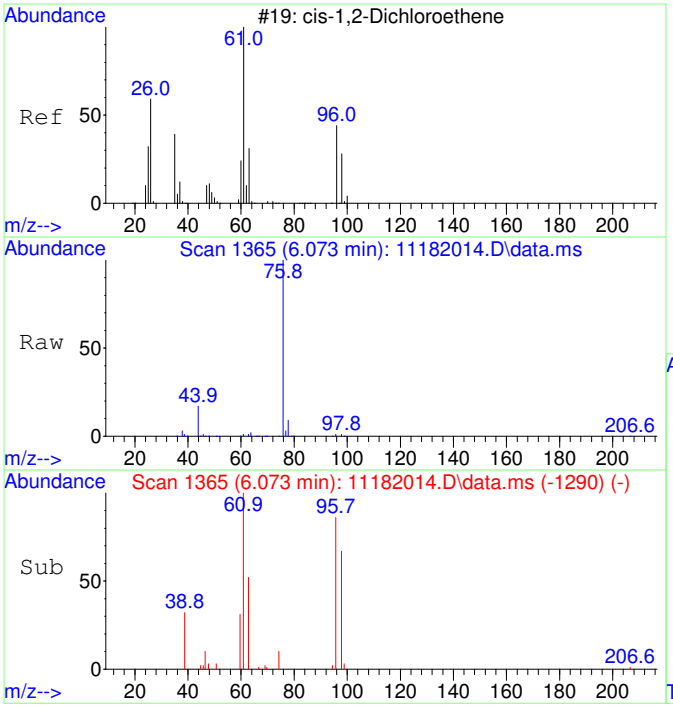


#28
1,1-Dichloroethane SCAN
Concen: 36.44 ug/L
RT: 5.065 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 63 Resp: 547

Ion	Ratio	Lower	Upper
63	100		
65	209.5	1.3	61.3#
83	0.0	0.0	45.9

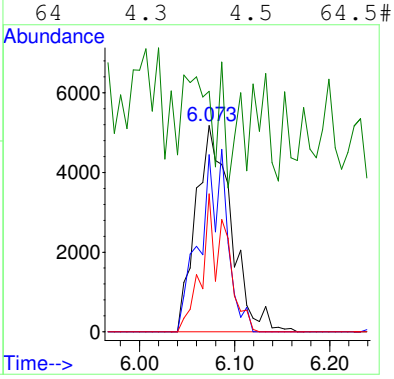


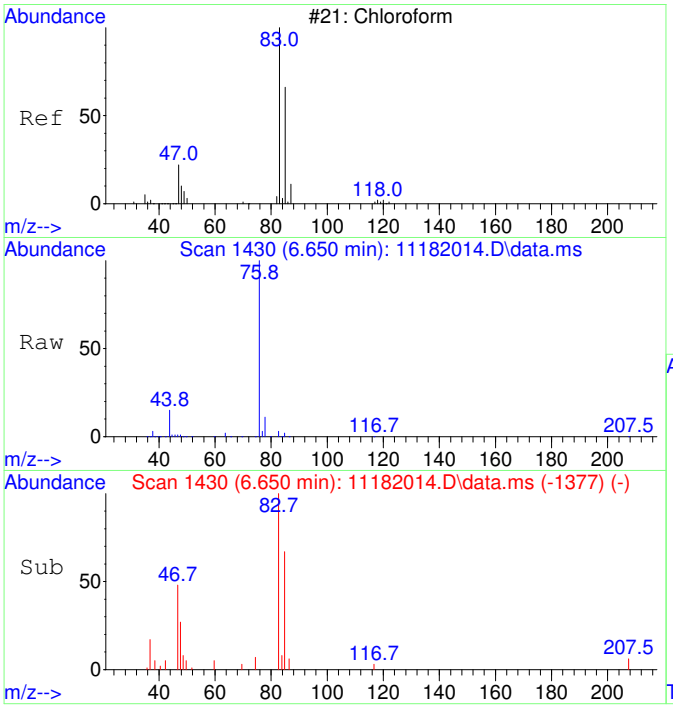


#29
cis-1,2-Dichloroethene SCAN
Concen: 830.34 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 61 Resp: 13356

Ion	Ratio	Lower	Upper
61	100		
96	67.4	39.9	99.9
98	45.7	13.5	73.5
64	4.3	4.5	64.5#

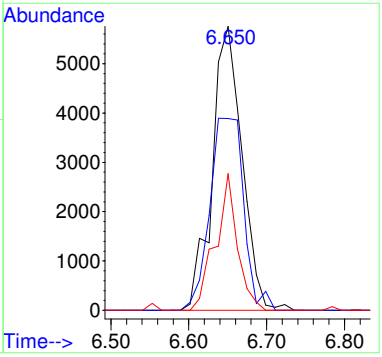


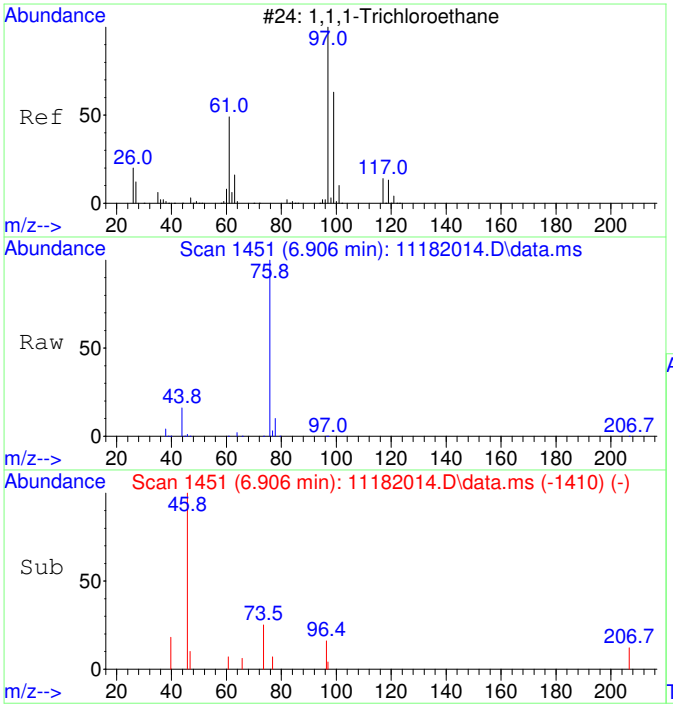


#30
Chloroform SCAN
Concen: 881.21 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 83 Resp: 15374

Ion	Ratio	Lower	Upper
83	100		
85	76.9	34.6	94.6
47	35.1	0.0	53.4

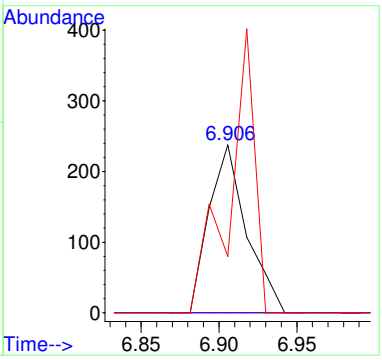


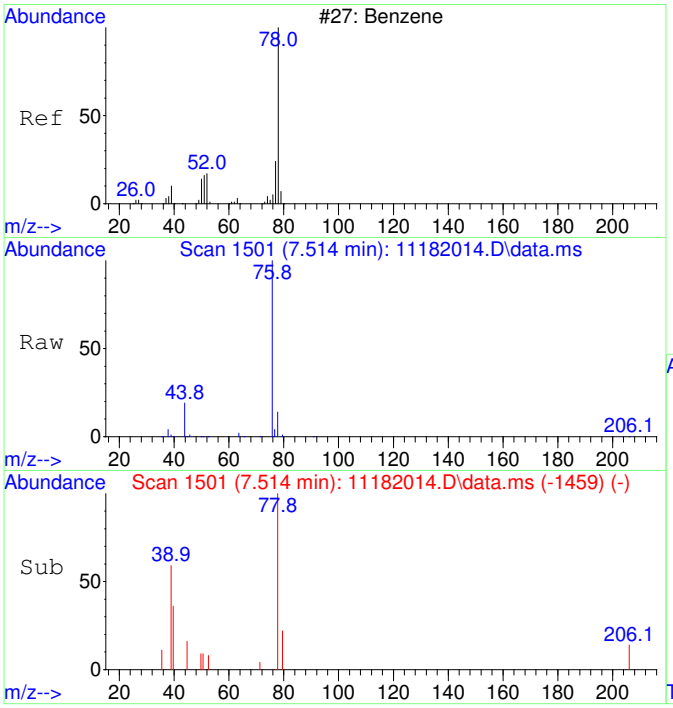


#31
1,1,1-Trichloroethane SCAN
Concen: 25.22 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 97 Resp: 401

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	115.7	18.0	78.0#

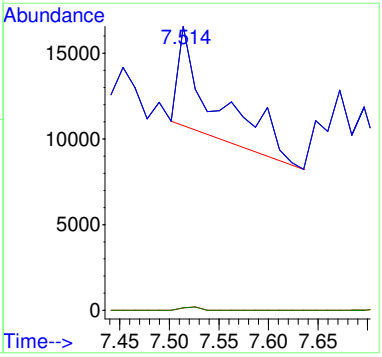


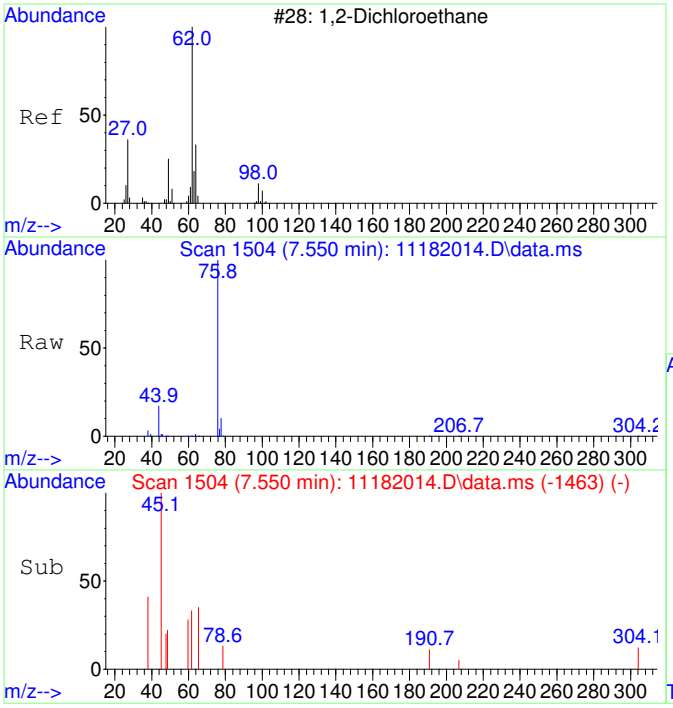


#33
Benzene SCAN
Concen: 316.60 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 78 Resp: 13859

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.8	0.0	47.9
51	1.8	0.0	44.1

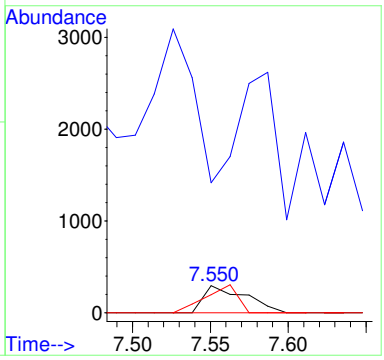


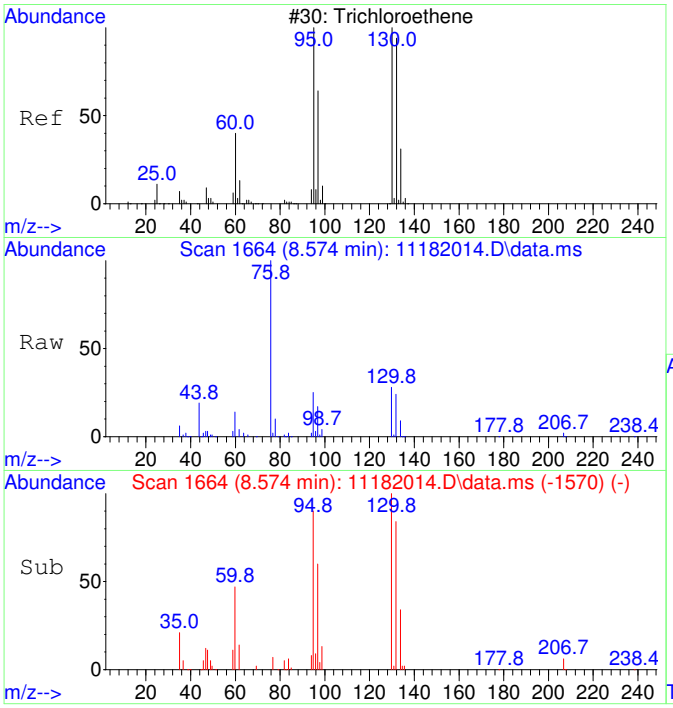


#34
1,2-Dichloroethane SCAN
Concen: 34.34 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 62 Resp: 555

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	78.9	3.9	63.9#

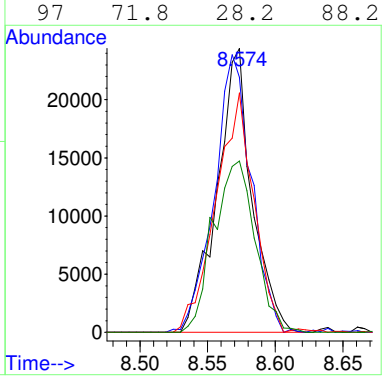


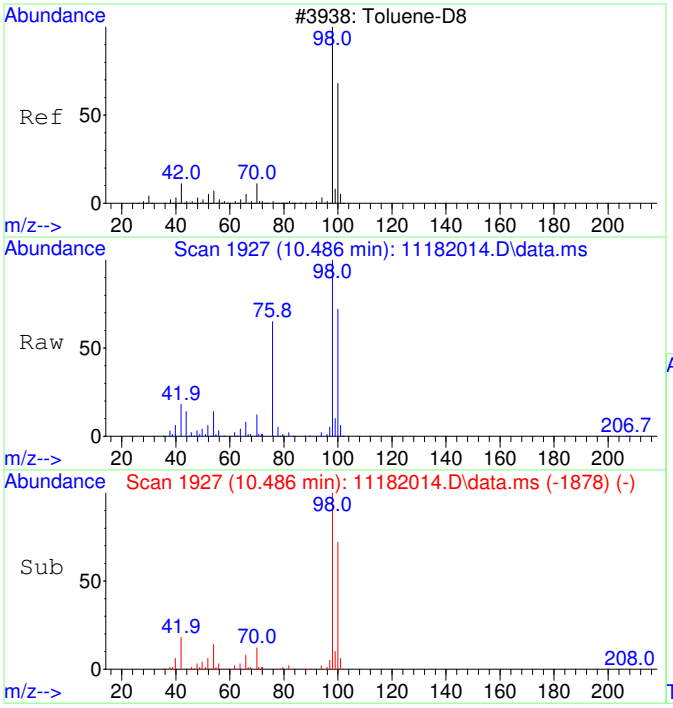


#35
Trichloroethene SCAN
Concen: 3660.22 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion:130 Resp: 44031

Ion	Ratio	Lower	Upper
130	100		
95	103.3	60.5	120.5
132	90.2	59.6	119.6
97	71.8	28.2	88.2

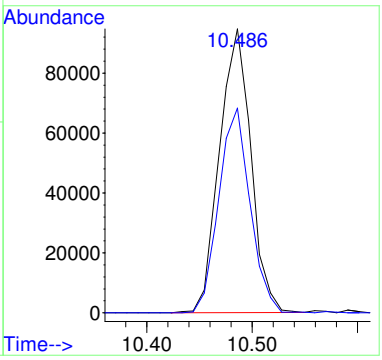


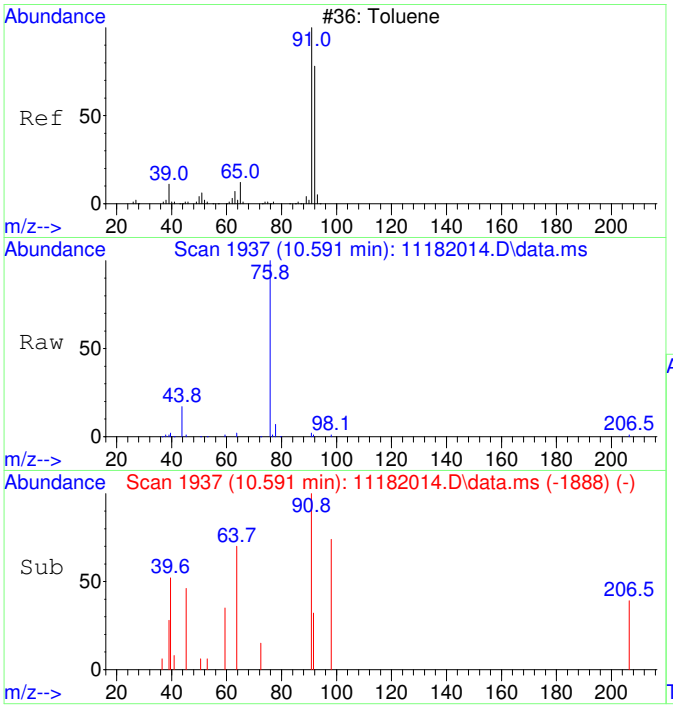


#36
Toluene-d8 SCAN
Concen: 4072.97 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 98 Resp: 196626

Ion	Ratio	Lower	Upper
98	100		
100	71.9	40.0	100.0

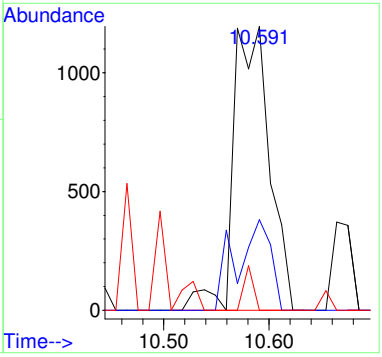


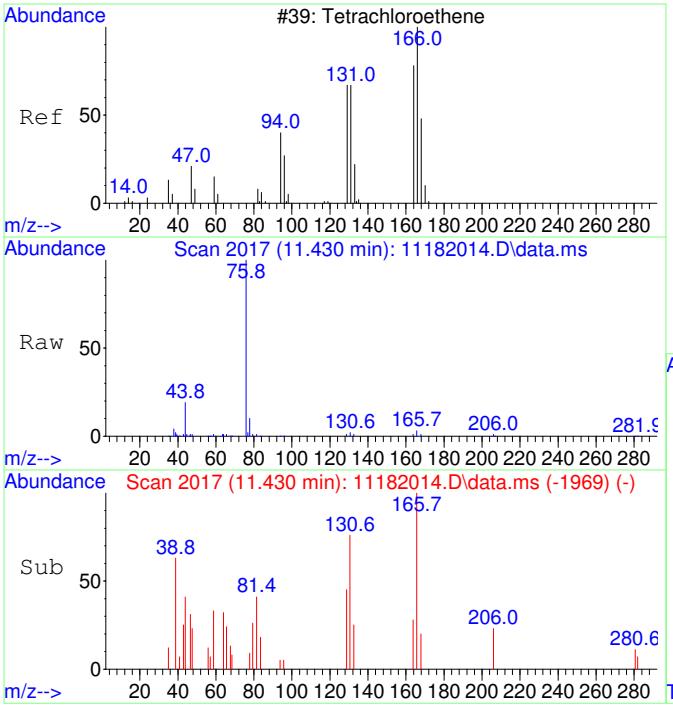


#37
Toluene SCAN
Concen: 46.05 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion: 91 Resp: 2847

Ion	Ratio	Lower	Upper
91	100		
92	30.4	28.3	88.3
65	4.1	0.0	41.0

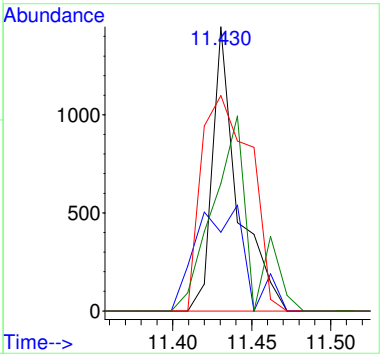




#39
Tetrachloroethene SCAN
Concen: 109.00 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11182014.D
Acq: 18 Nov 2020 14:45

Tgt Ion:166 Resp: 1619

Ion	Ratio	Lower	Upper
166	100		
164	72.5	50.9	110.9
131	147.9	38.7	98.7#
129	101.1	41.8	101.8



2011017-09RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182015.D
Acq On : 18 Nov 2020 15:09
InstName : AG5975C
Operator : TD
Sample : 2011017-09RE1
Misc : 10X DL (180-20)
ALS Vial : 15 Sample Multiplier: 10

Quant Time: Nov 19 06:09:41 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

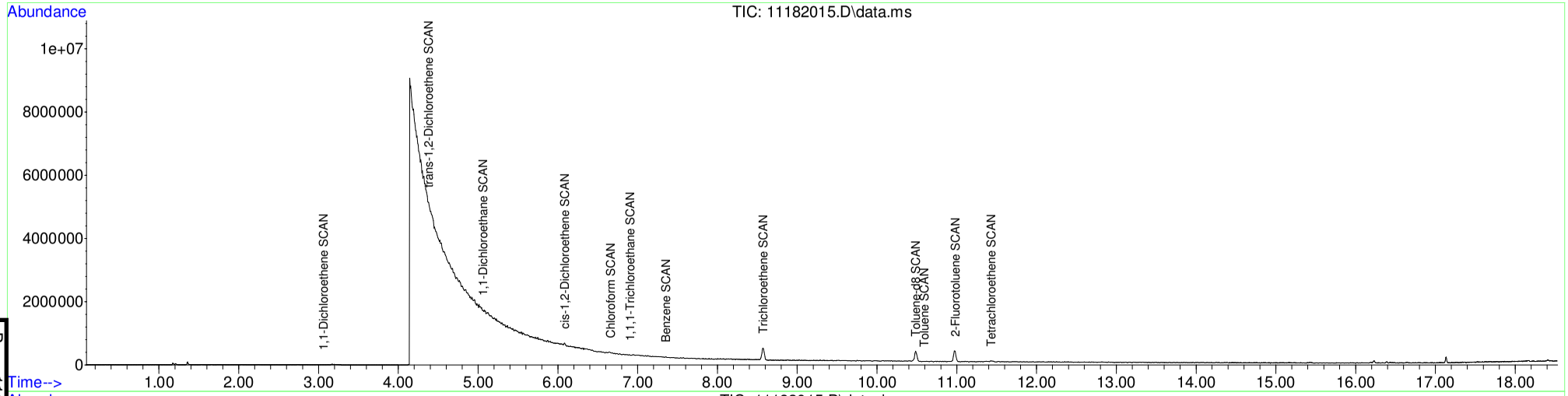
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	573233	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	475228	4234.92 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery =	84.70%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	3020	131.93 ug/L	92
3] trans-1,2-Dichloroethene	4.343	61	3527	133.36 ug/L	84
4] 1,1-Dichloroethane	5.066	63	3300	100.24 ug/L	84
5] cis-1,2-Dichloroethene	6.081	61	69800	2008.62 ug/L	99
6] Chloroform	6.652	83	45656	1283.62 ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	2721	70.44 ug/L	99
11] Trichloroethene	8.569	130	294142	10030.59 ug/L RPT	94
13] Toluene	10.582	91	4725	33.03 ug/L	98
15] Tetrachloroethene	11.432	166	14495	350.10 ug/L	99
19] m&p-Xylene	13.162	91	3029	22.26 ug/L	89
25) 2-Fluorotoluene SCAN	10.979	109	274261	4908.07 ug/L	95
26) 1,1-Dichloroethene SCAN	3.066	61	948	79.88 ug/L #	31
27) trans-1,2-Dichloroethe...	4.375	61	1644	111.95 ug/L #	31
28) 1,1-Dichloroethane SCAN	5.058	63	861	50.66 ug/L #	53
29) cis-1,2-Dichloroethene...	6.080	61	36933	2028.35 ug/L	86
30) Chloroform SCAN	6.662	83	24926	1262.11 ug/L	91
31) 1,1,1-Trichloroethane ...	6.906	97	2176	120.91 ug/L	99
33) Benzene SCAN	7.356	78	26059	525.88 ug/L	92
35) Trichloroethene SCAN	8.574	130	137772	10117.19 ug/L	89
36) Toluene-d8 SCAN	10.486	98	244562	4475.17 ug/L	91
37) Toluene SCAN	10.591	91	2667	38.11 ug/L #	33
39) Tetrachloroethene SCAN	11.431	166	5456	324.49 ug/L #	74

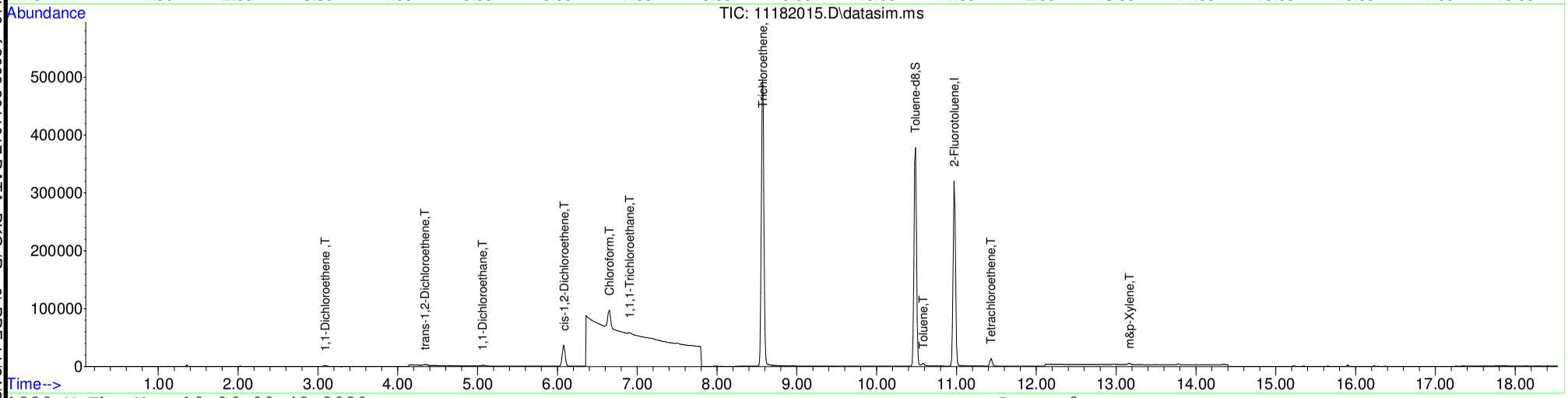
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182015.D
Acq On : 18 Nov 2020 15:09
InstName : AG5975C
Operator : TD
Sample : 2011017-09RE1
Misc : 10X DL (180-20)
ALS Vial : 15 Sample Multiplier: 10

Quant Time: Nov 19 06:09:41 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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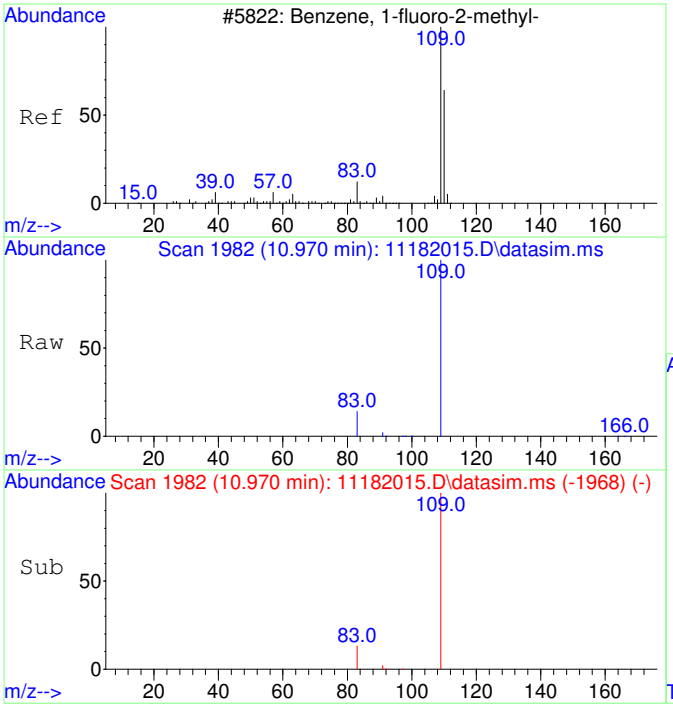
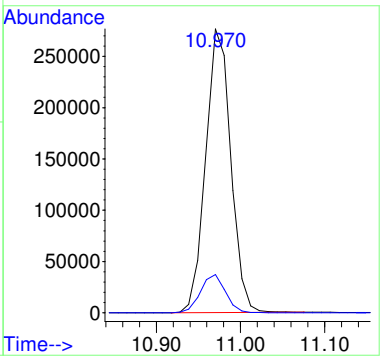
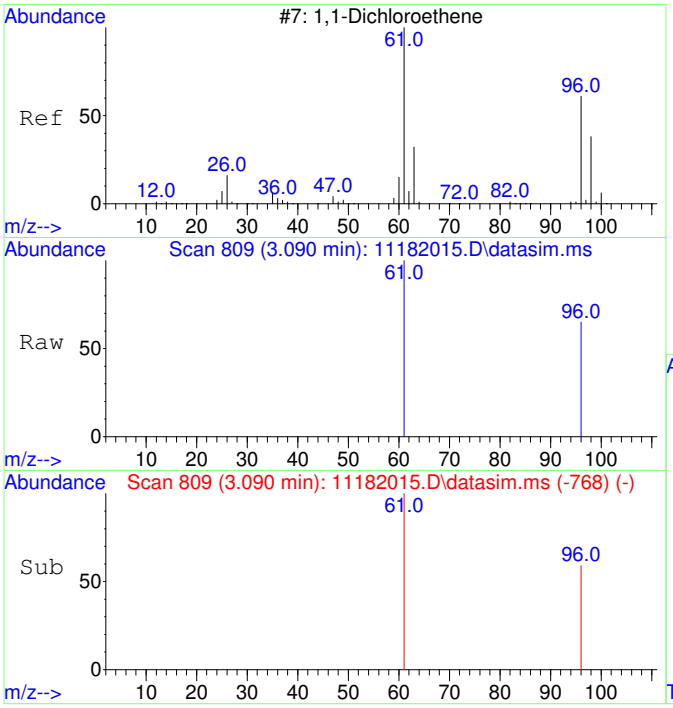


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion:109 Resp: 573233

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

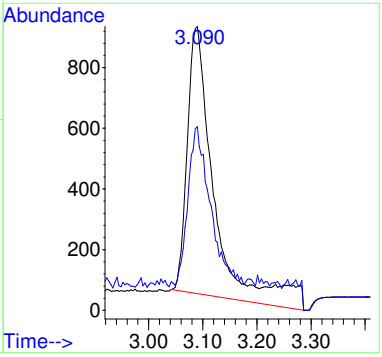


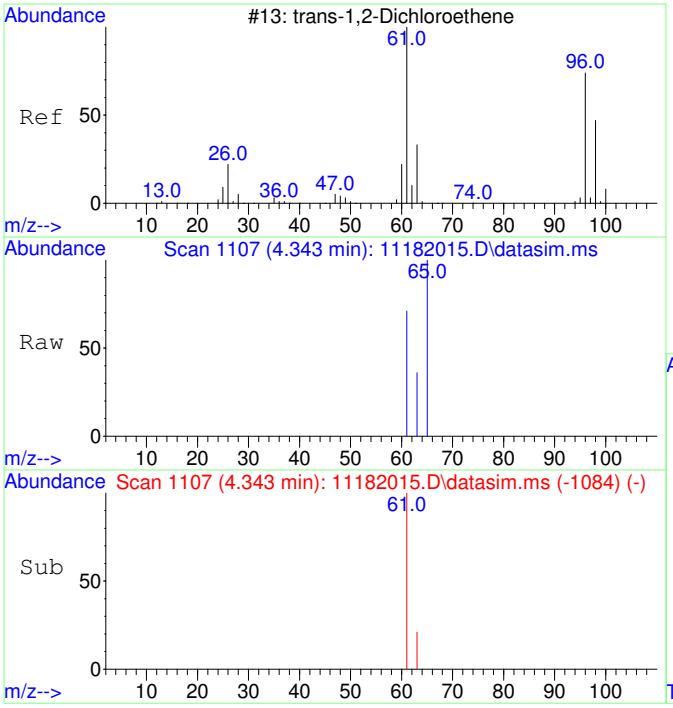


#2
1,1-Dichloroethene
Concen: 131.93 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 61 Resp: 3020

Ion	Ratio	Lower	Upper
61	100		
96	60.5	37.2	97.2

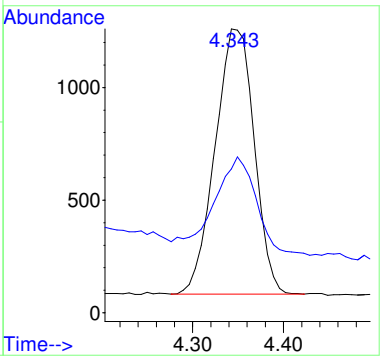


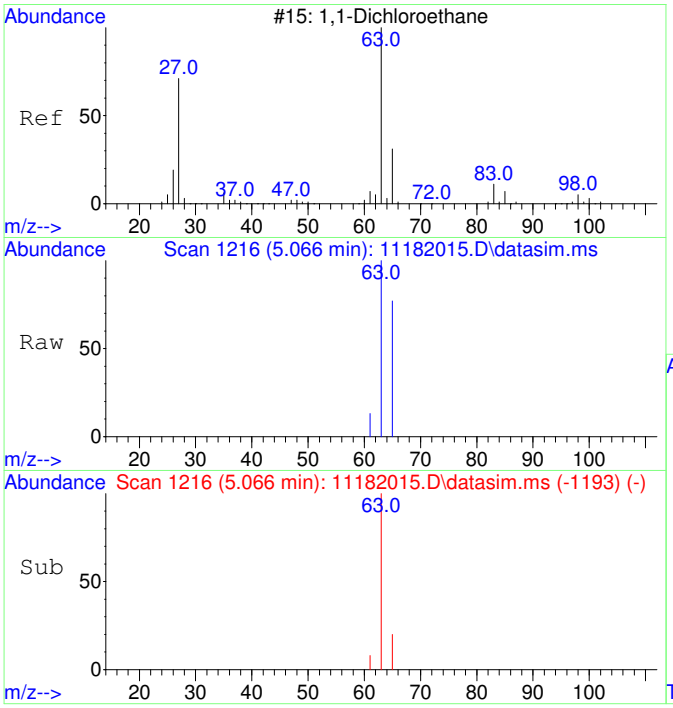


#3
trans-1,2-Dichloroethene
Concen: 133.36 ug/L
RT: 4.343 min Scan# 1107
Delta R.T. -0.000 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 61 Resp: 3527

Ion	Ratio	Lower	Upper
61	100		
63	41.5	2.4	62.4

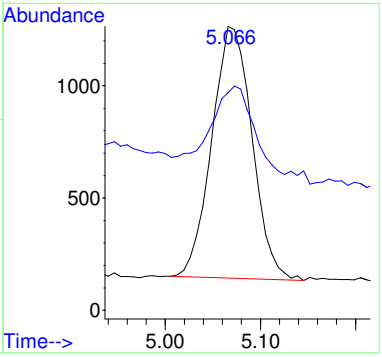


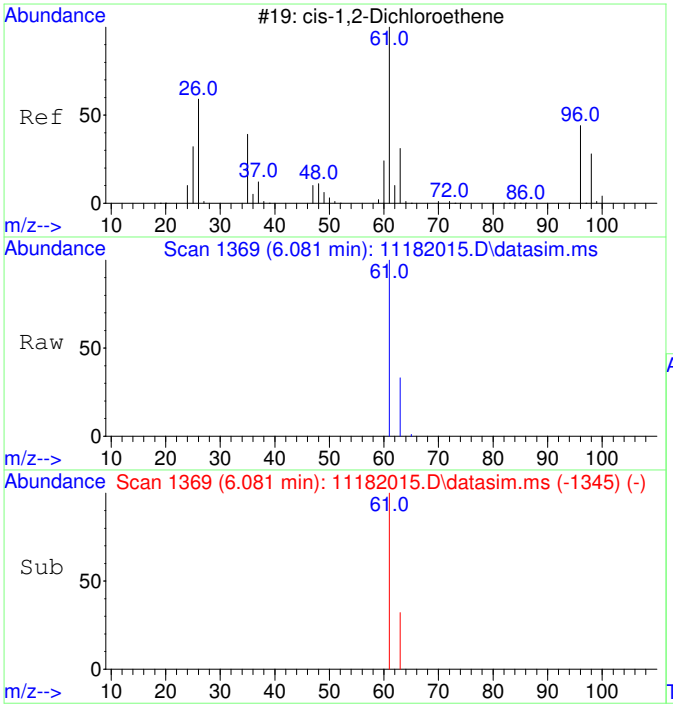


#4
1,1-Dichloroethane
Concen: 100.24 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 63 Resp: 3300

Ion	Ratio	Lower	Upper
63	100		
65	40.8	1.8	61.8

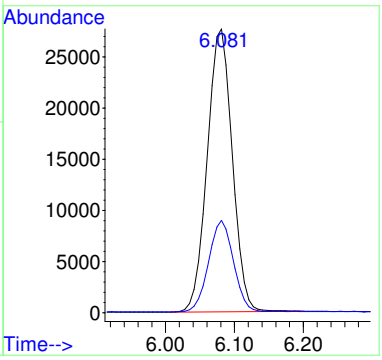


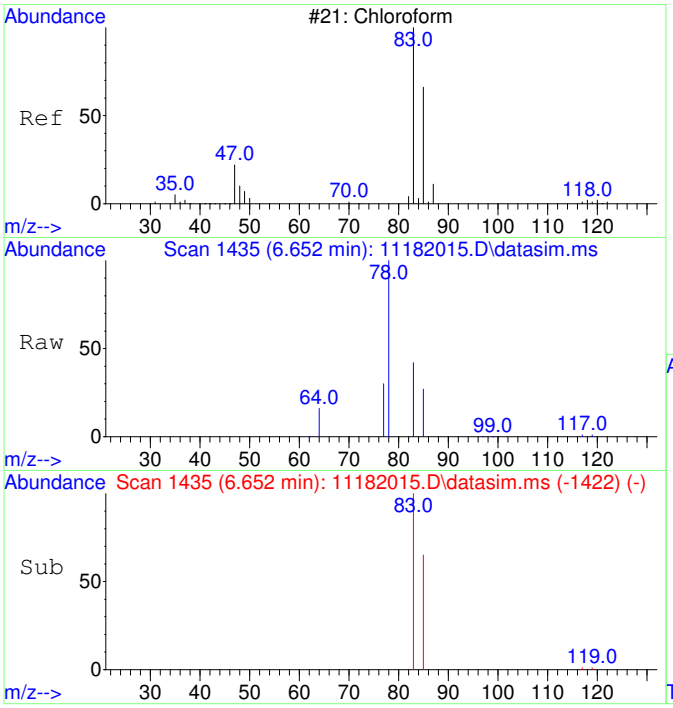


#5
cis-1,2-Dichloroethene
Concen: 2008.62 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 61 Resp: 69800

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

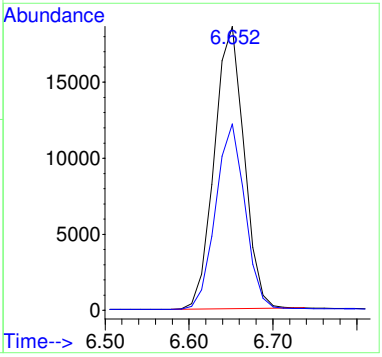


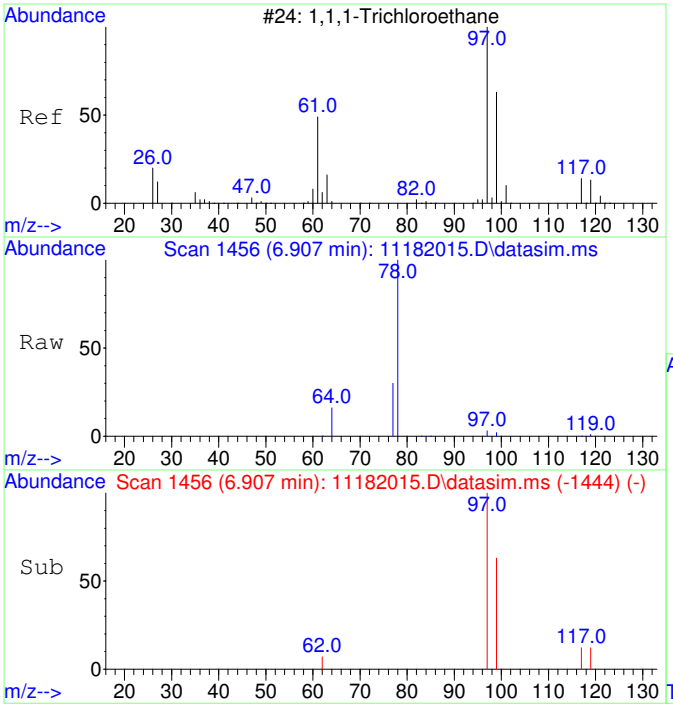


#6
Chloroform
Concen: 1283.62 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 83 Resp: 45656

Ion	Ratio	Lower	Upper
83	100		
85	64.6	35.1	95.1

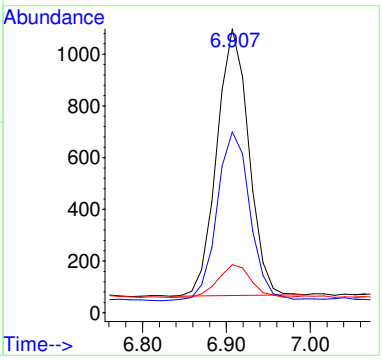


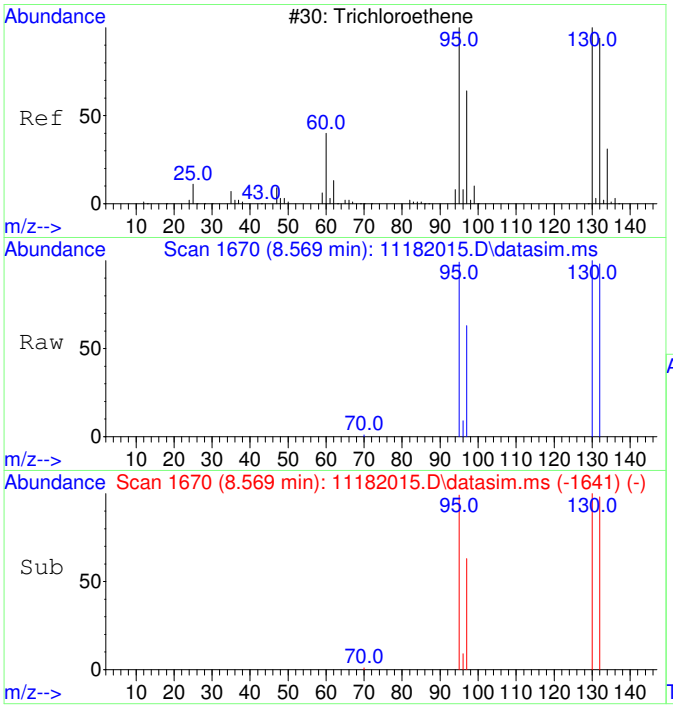


#7
1,1,1-Trichloroethane
Concen: 70.44 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 97 Resp: 2721

Ion	Ratio	Lower	Upper
97	100		
99	65.6	34.6	94.6
117	12.6	0.0	43.2

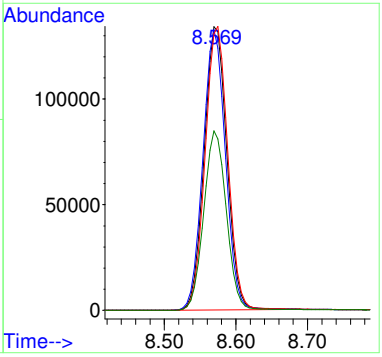


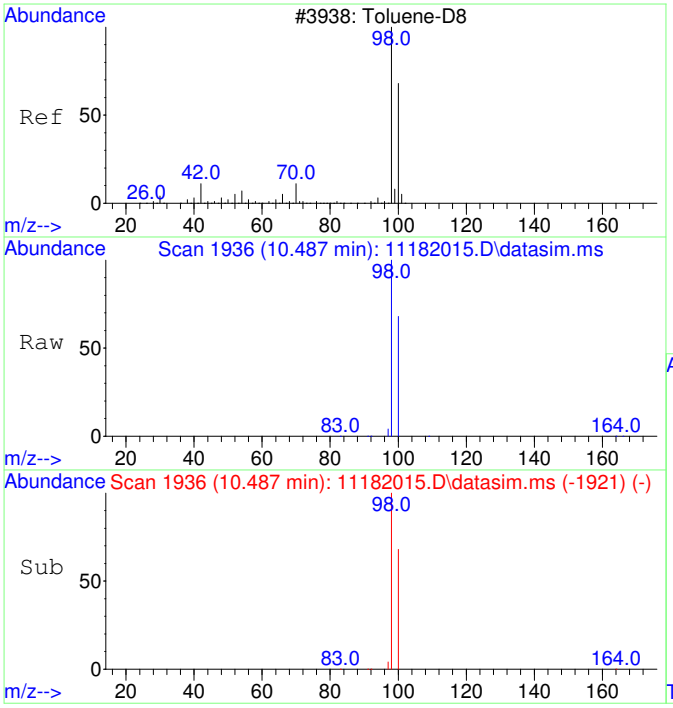


#11
Trichloroethene
Concen: 10030.59 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion:130 Resp: 294142

Ion	Ratio	Lower	Upper
130	100		
95	97.8	60.7	120.7
132	99.7	76.0	116.0
97	62.7	38.6	78.6

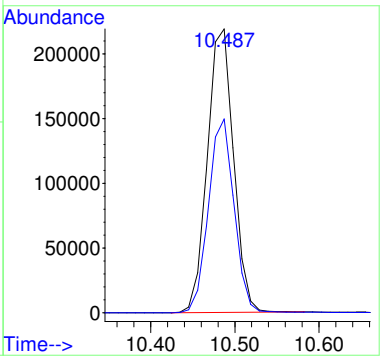


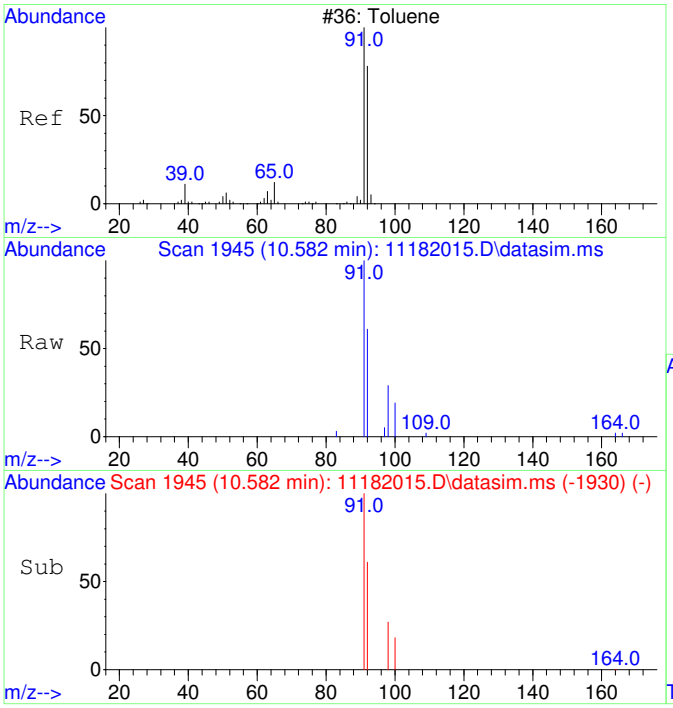


#12
Toluene-d8
Concen: 4234.92 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 98 Resp: 475228

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

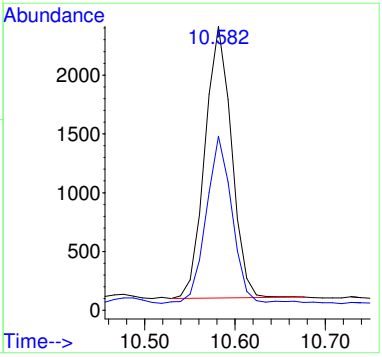


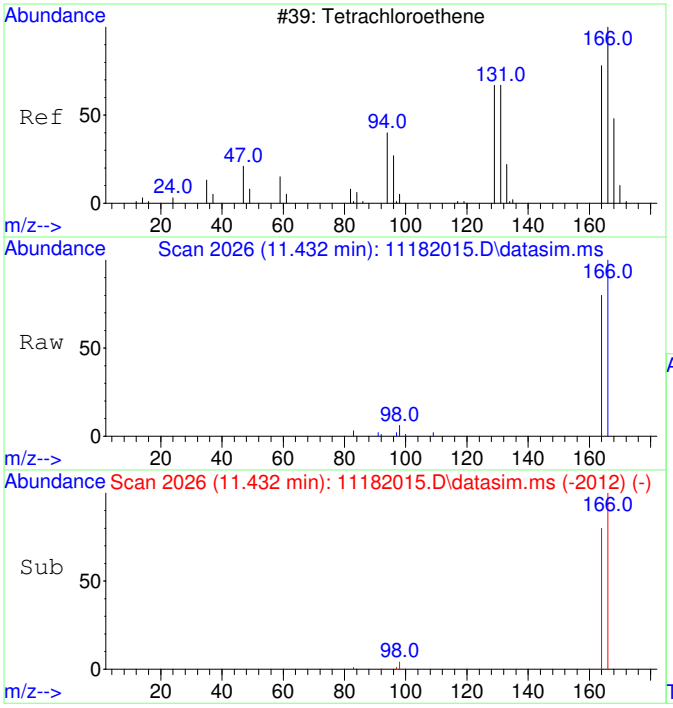


#13
Toluene
Concen: 33.03 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 91 Resp: 4725

Ion	Ratio	Lower	Upper
91	100		
92	58.5	29.9	89.9

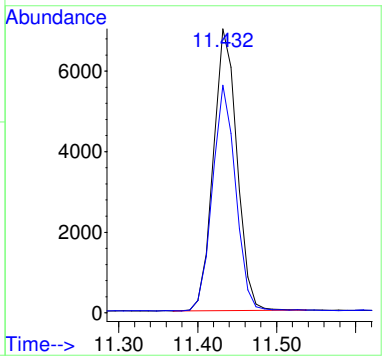


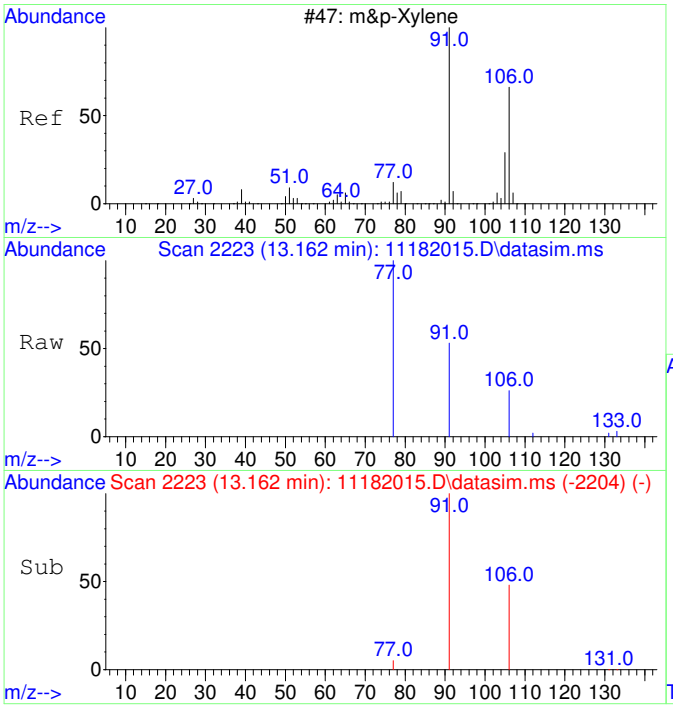


#15
Tetrachloroethene
Concen: 350.10 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion:166 Resp: 14495

Ion	Ratio	Lower	Upper
166	100		
164	78.4	47.8	107.8

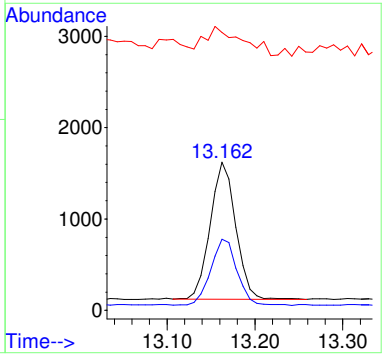


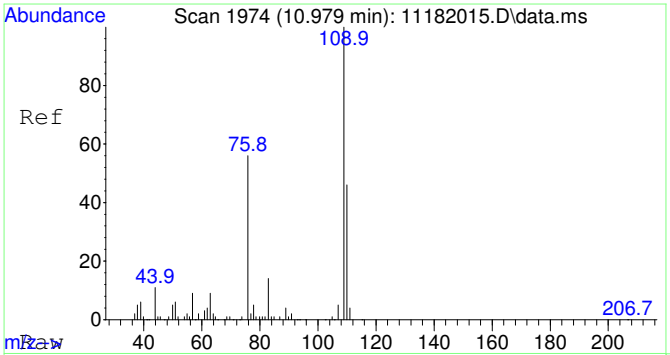


#19
m&p-Xylene
Concen: 22.26 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 91 Resp: 3029

Ion	Ratio	Lower	Upper
91	100		
106	49.8	22.2	82.2
77	29.0	0.0	42.4

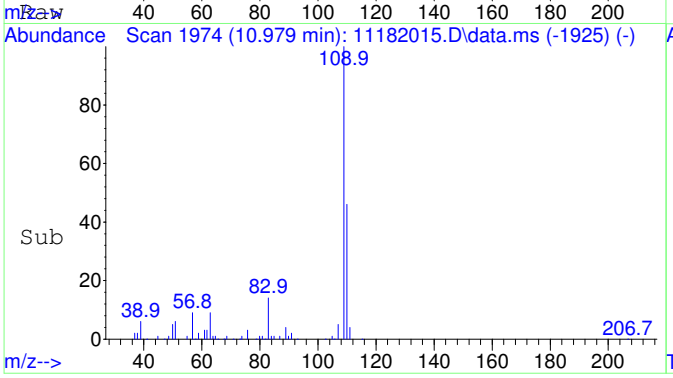


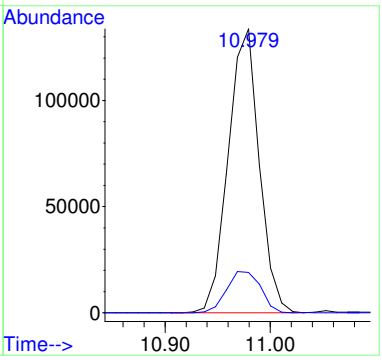


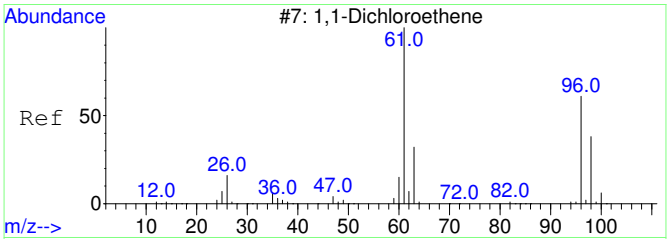
#25
2-Fluorotoluene SCAN
Concen: 4908.07 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

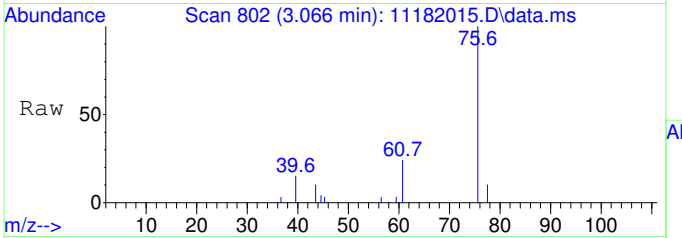
Tgt Ion:109 Resp: 274261

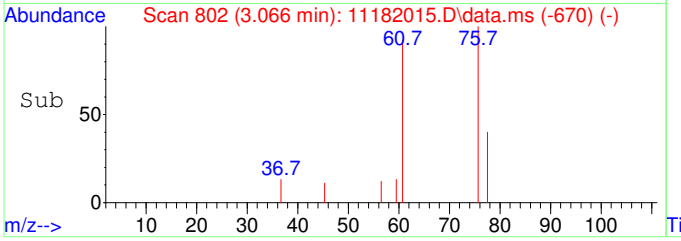
Ion	Ratio	Lower	Upper
109	100		
83	16.0	0.0	43.8







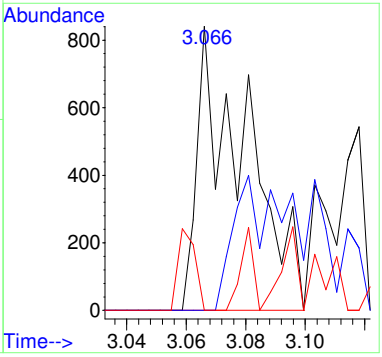


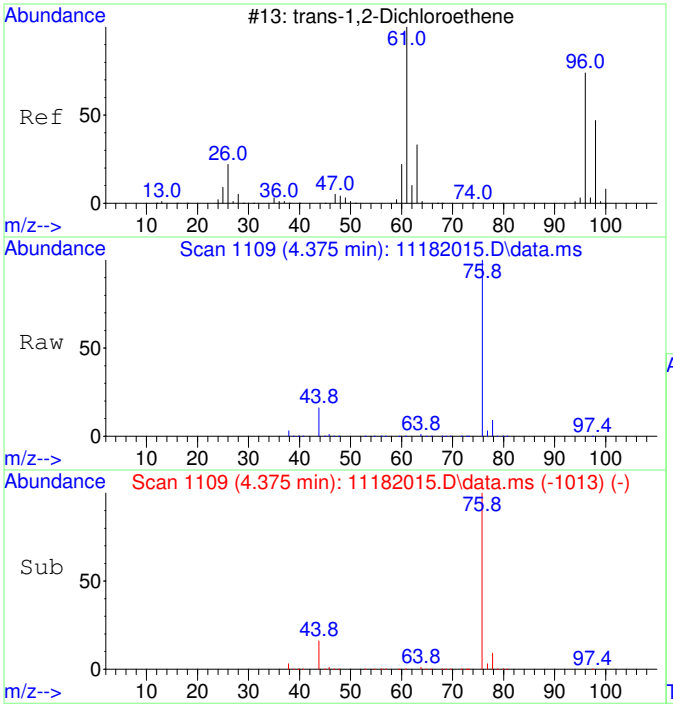


#26
1,1-Dichloroethene SCAN
Concen: 79.88 ug/L
RT: 3.066 min Scan# 802
Delta R.T. -0.011 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 61 Resp: 948

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.1	93.1#
98	10.2	11.2	71.2#

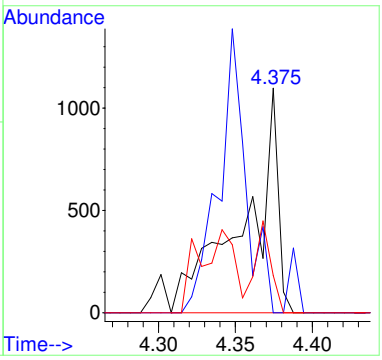


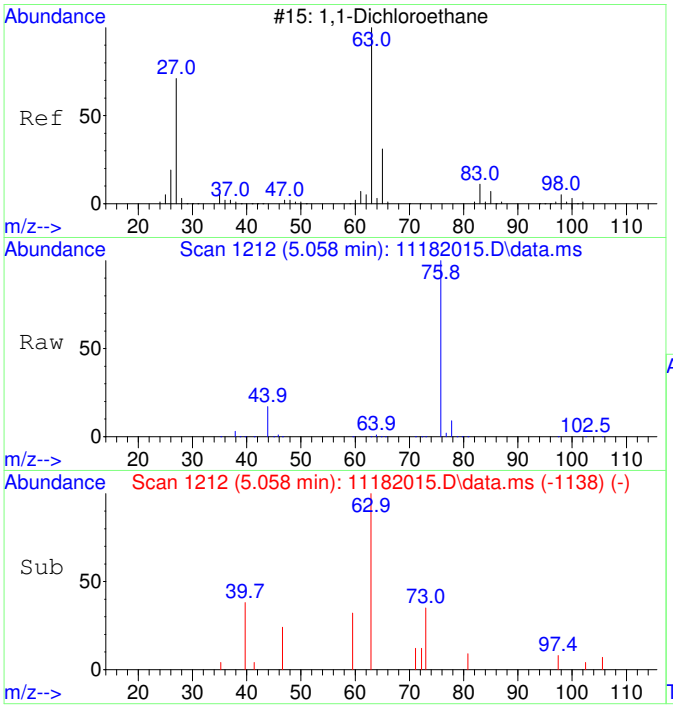


#27
trans-1,2-Dichloroethene SCAN
Concen: 111.95 ug/L
RT: 4.375 min Scan# 1109
Delta R.T. 0.026 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 61 Resp: 1644

Ion	Ratio	Lower	Upper
61	100		
96	7.7	49.0	109.0#
98	16.1	20.5	80.5#

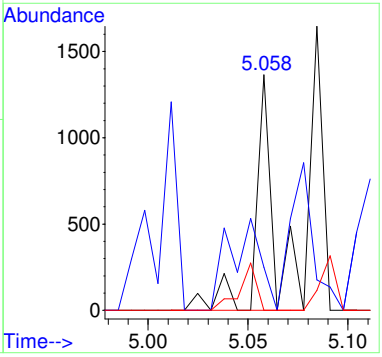


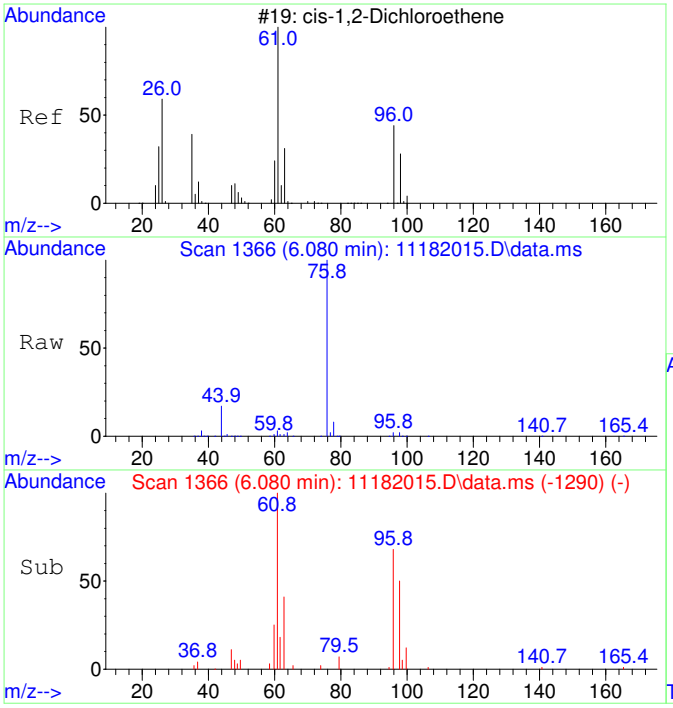


#28
1,1-Dichloroethane SCAN
Concen: 50.66 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.007 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 63 Resp: 861

Ion	Ratio	Lower	Upper
63	100		
65	68.4	1.3	61.3#
83	18.8	0.0	45.9

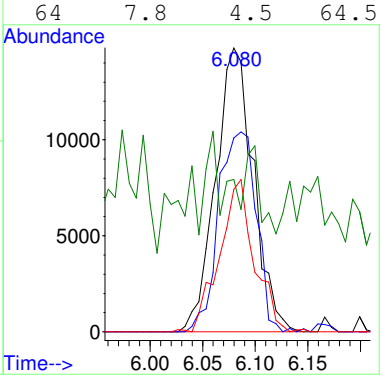


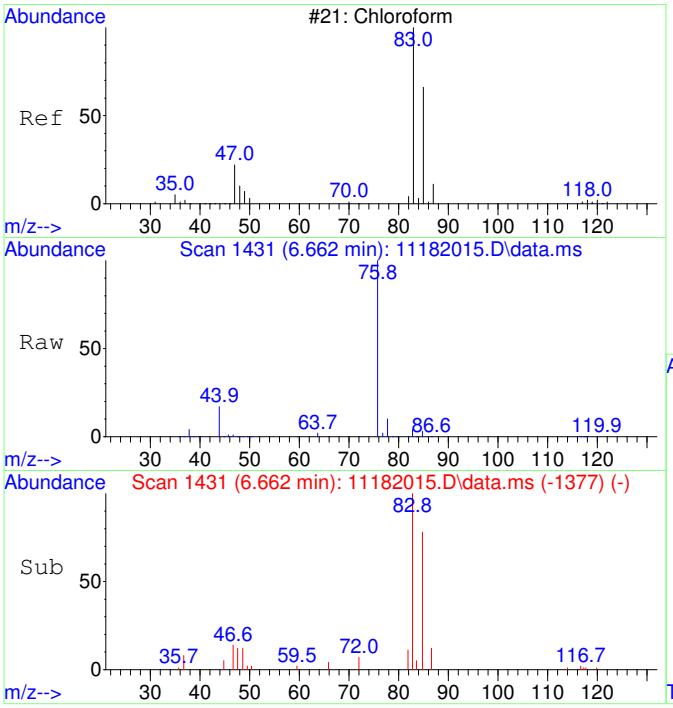


#29
cis-1,2-Dichloroethene SCAN
Concen: 2028.35 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.007 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 61 Resp: 36933

Ion	Ratio	Lower	Upper
61	100		
96	70.8	39.9	99.9
98	49.1	13.5	73.5
64	7.8	4.5	64.5

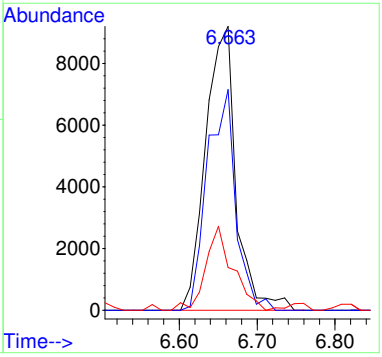


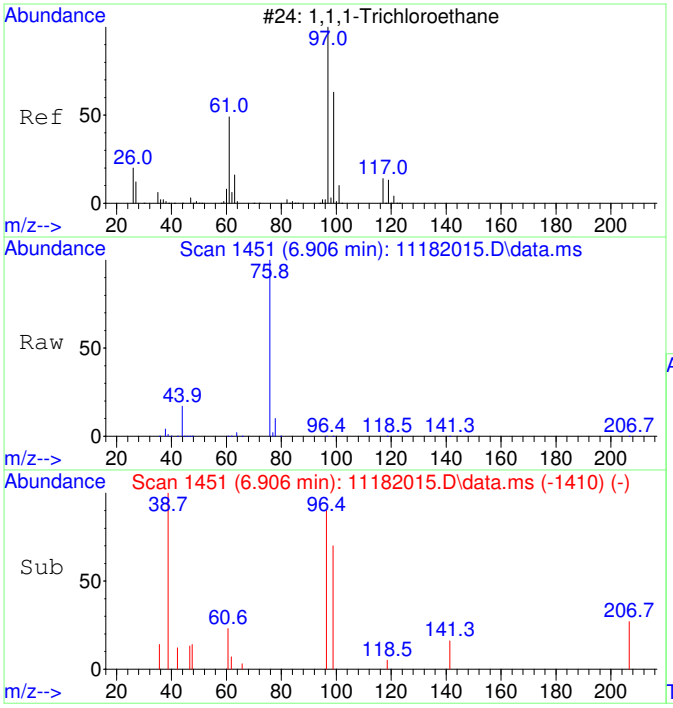


#30
Chloroform SCAN
Concen: 1262.11 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 83 Resp: 24926

Ion	Ratio	Lower	Upper
83	100		
85	72.7	34.6	94.6
47	25.7	0.0	53.4

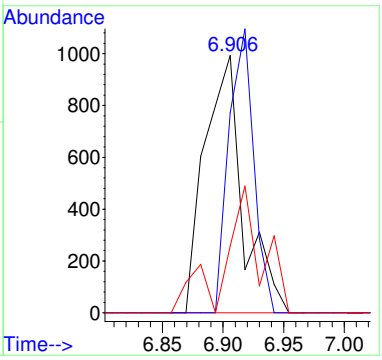


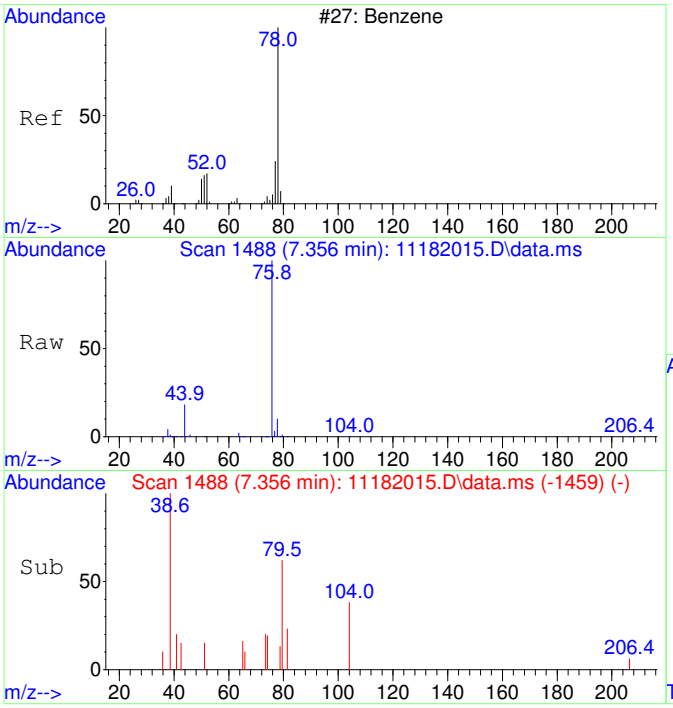


#31
1,1,1-Trichloroethane SCAN
Concen: 120.91 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 97 Resp: 2176

Ion	Ratio	Lower	Upper
97	100		
99	72.2	43.6	103.6
61	48.7	18.0	78.0

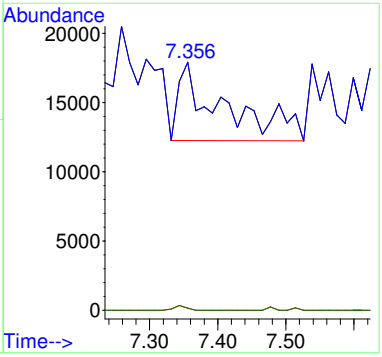


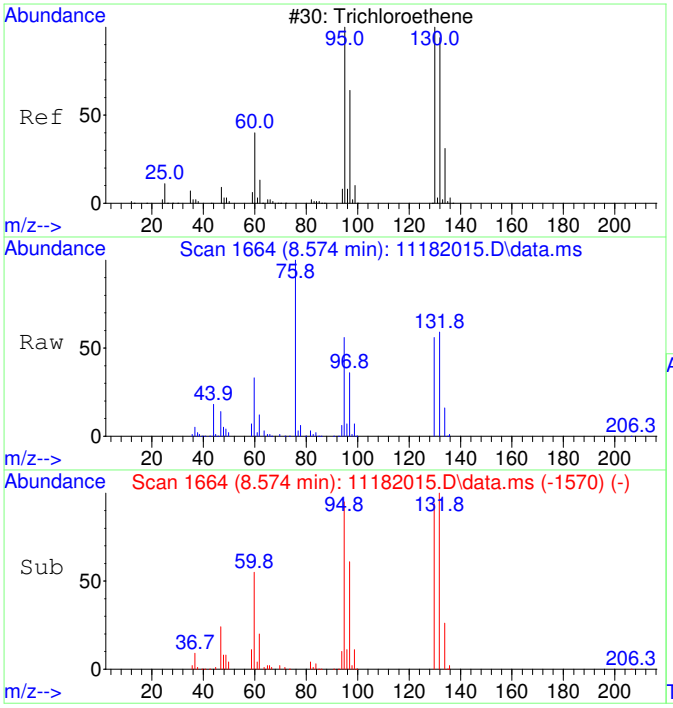


#33
Benzene SCAN
Concen: 525.88 ug/L
RT: 7.356 min Scan# 1488
Delta R.T. -0.146 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 78 Resp: 26059

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.7	0.0	47.9
51	1.7	0.0	44.1

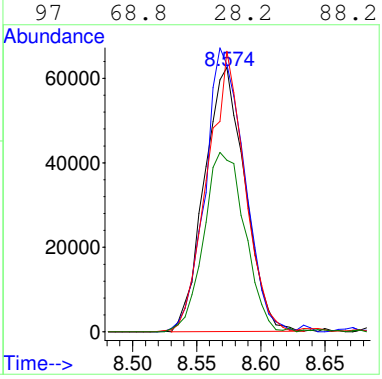


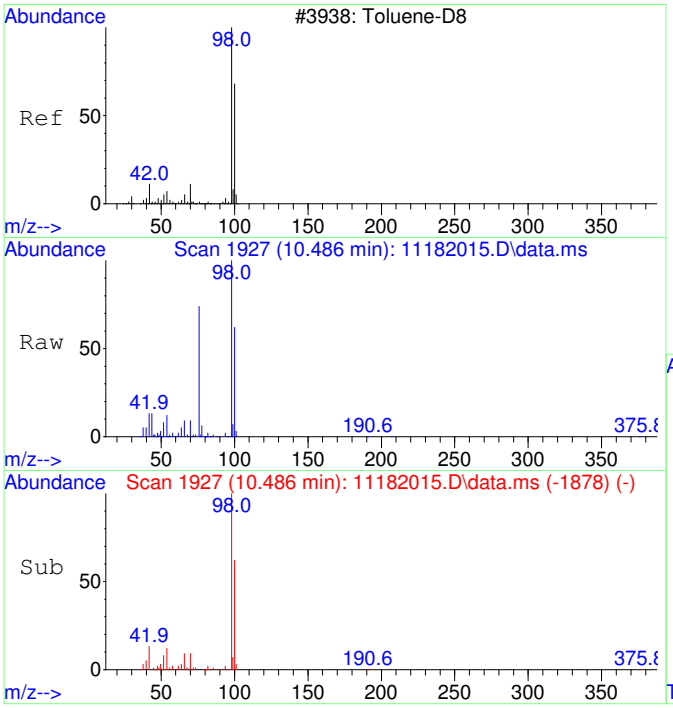


#35
Trichloroethene SCAN
Concen: 10117.19 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion:130 Resp: 137772

Ion	Ratio	Lower	Upper
130	100		
95	102.6	60.5	120.5
132	96.8	59.6	119.6
97	68.8	28.2	88.2

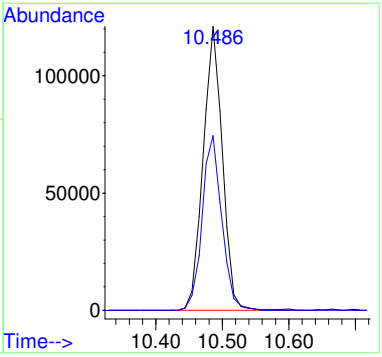


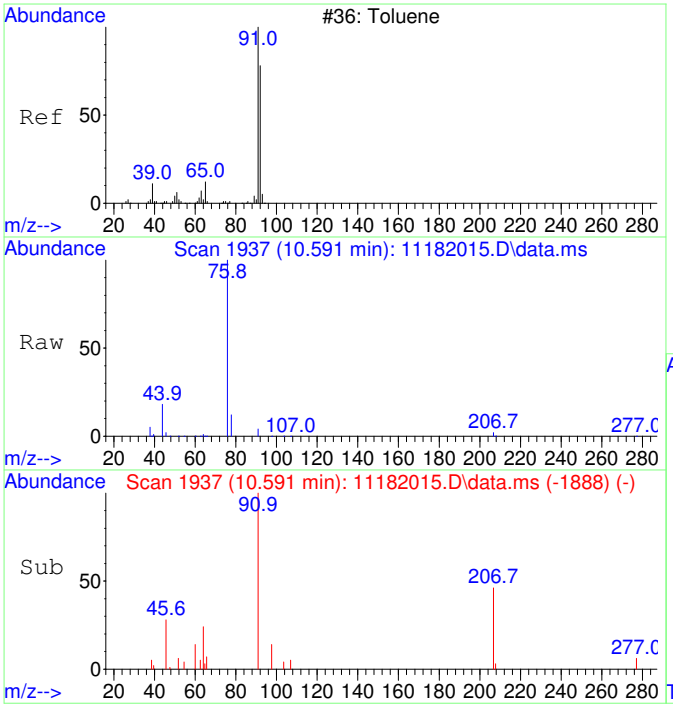


#36
Toluene-d8 SCAN
Concen: 4475.17 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 98 Resp: 244562

Ion	Ratio	Lower	Upper
98	100		
100	62.4	40.0	100.0

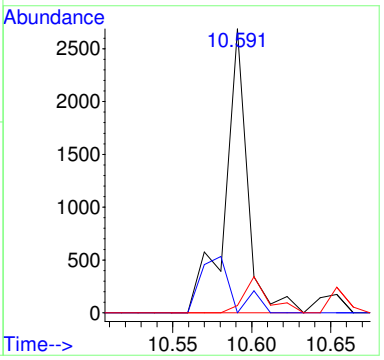


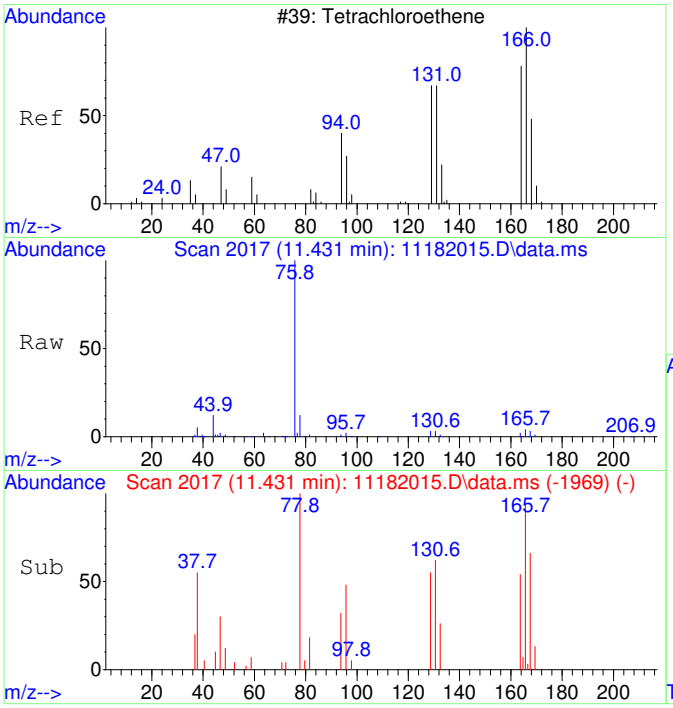


#37
Toluene SCAN
Concen: 38.11 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion: 91 Resp: 2667

Ion	Ratio	Lower	Upper
91	100		
92	0.0	28.3	88.3#
65	13.6	0.0	41.0

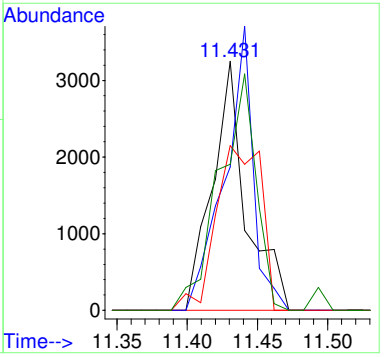




#39
Tetrachloroethene SCAN
Concen: 324.49 ug/L
RT: 11.431 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11182015.D
Acq: 18 Nov 2020 15:09

Tgt Ion:166 Resp: 5456

Ion	Ratio	Lower	Upper
166	100		
164	96.3	50.9	110.9
131	88.9	38.7	98.7
129	103.2	41.8	101.8#



2011017-13RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182016.D
Acq On : 18 Nov 2020 15:32
InstName : AG5975C
Operator : TD
Sample : 2011017-13RE1
Misc : 10X DL (180-20)
ALS Vial : 16 Sample Multiplier: 10

Quant Time: Nov 19 06:09:46 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

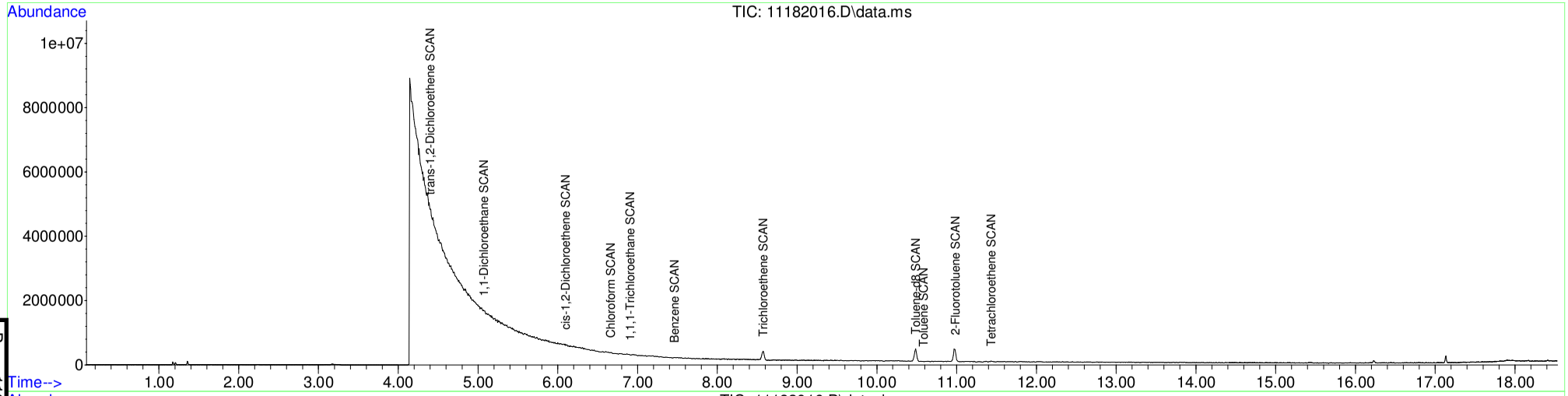
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	695635	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.487	98	579596	4256.16	ug/L		0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 85.12%#				
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.093	61	2142	77.11	ug/L		73
3] trans-1,2-Dichloroethene	4.376	61	2404	74.91	ug/L		82
4] 1,1-Dichloroethane	5.086	63	2126	53.22	ug/L		70
5] cis-1,2-Dichloroethene	6.088	61	46893	1111.99	ug/L		99
6] Chloroform	6.652	83	41112	952.48	ug/L		99
7] 1,1,1-Trichloroethane	6.919	97	1796	38.31	ug/L		97
11] Trichloroethene	8.575	130	201762	5669.68	ug/L	RPT	94
13] Toluene	10.582	91	5159	29.72	ug/L		97
15] Tetrachloroethene	11.432	166	9682	192.70	ug/L		98
25) 2-Fluorotoluene SCAN	10.979	109	331852	4893.74	ug/L		100
27) trans-1,2-Dichloroethe...	4.394	61	1458	81.82	ug/L	#	31
28) 1,1-Dichloroethane SCAN	5.071	63	429	20.80	ug/L	#	1
29) cis-1,2-Dichloroethene...	6.093	61	27306	1235.77	ug/L		92
30) Chloroform SCAN	6.662	83	19295	805.08	ug/L		82
31) 1,1,1-Trichloroethane ...	6.906	97	869	39.79	ug/L	#	19
33) Benzene SCAN	7.465	78	21505	357.61	ug/L	#	91
35) Trichloroethene SCAN	8.573	130	96256	5824.74	ug/L		89
36) Toluene-d8 SCAN	10.486	98	289452	4364.63	ug/L		98
37) Toluene SCAN	10.580	91	2597	30.58	ug/L		85
39) Tetrachloroethene SCAN	11.430	166	3850	188.69	ug/L	#	66

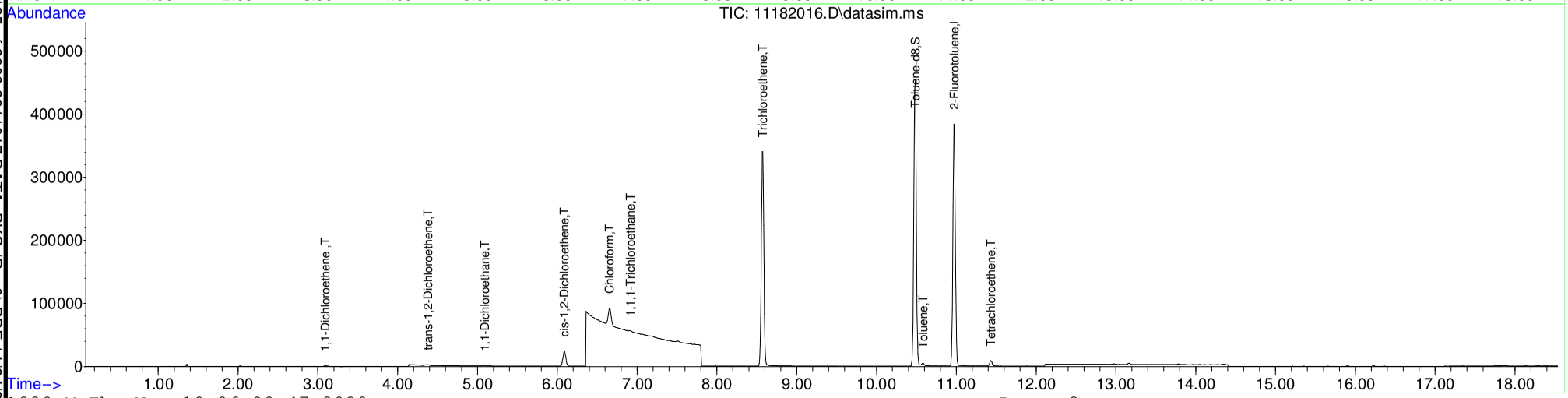
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182016.D
Acq On : 18 Nov 2020 15:32
InstName : AG5975C
Operator : TD
Sample : 2011017-13RE1
Misc : 10X DL (180-20)
ALS Vial : 16 Sample Multiplier: 10

Quant Time: Nov 19 06:09:46 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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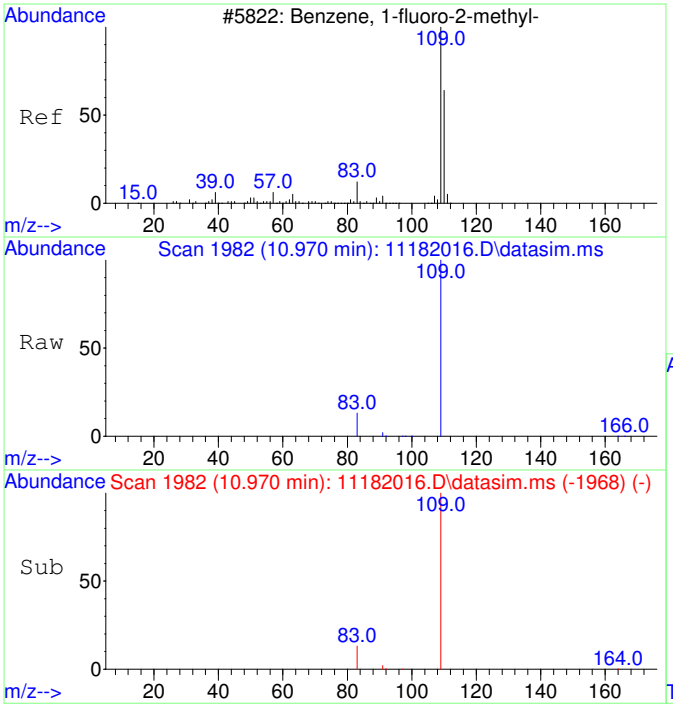
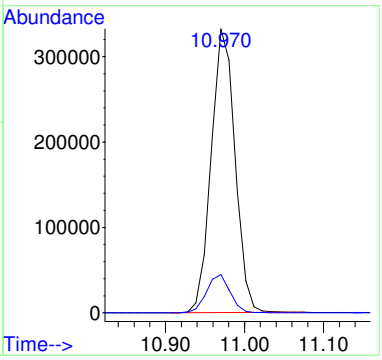
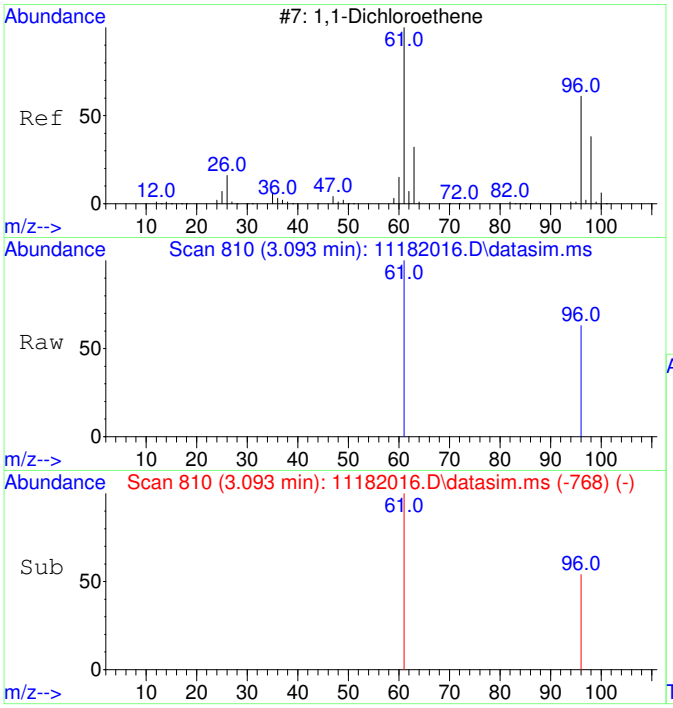


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion:109 Resp: 695635

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

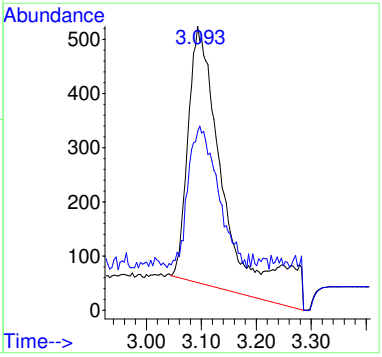


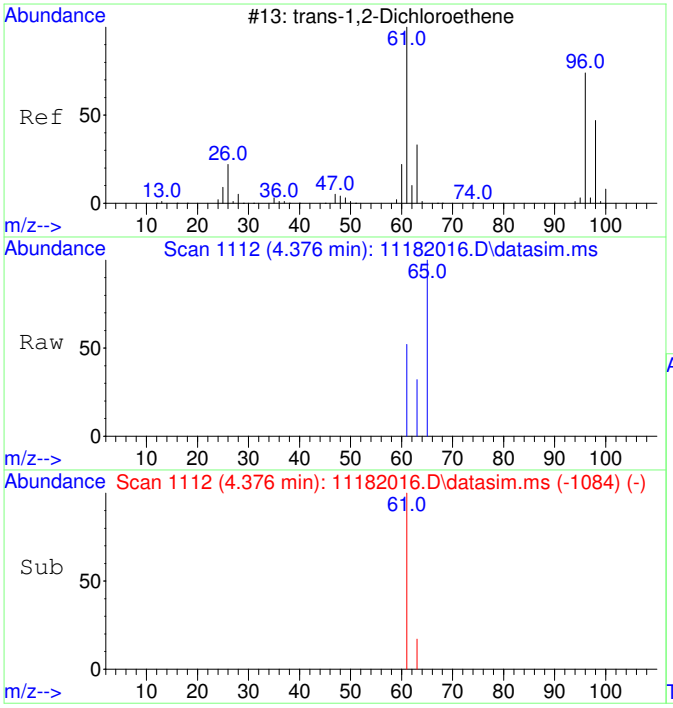


#2
1,1-Dichloroethene
Concen: 77.11 ug/L
RT: 3.093 min Scan# 810
Delta R.T. 0.007 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 61 Resp: 2142

Ion	Ratio	Lower	Upper
61	100		
96	45.9	37.2	97.2

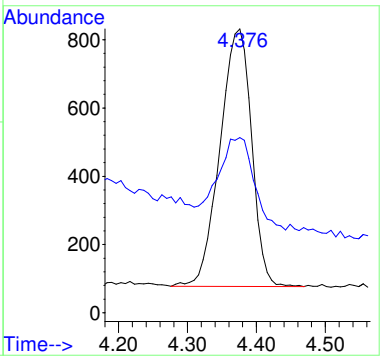


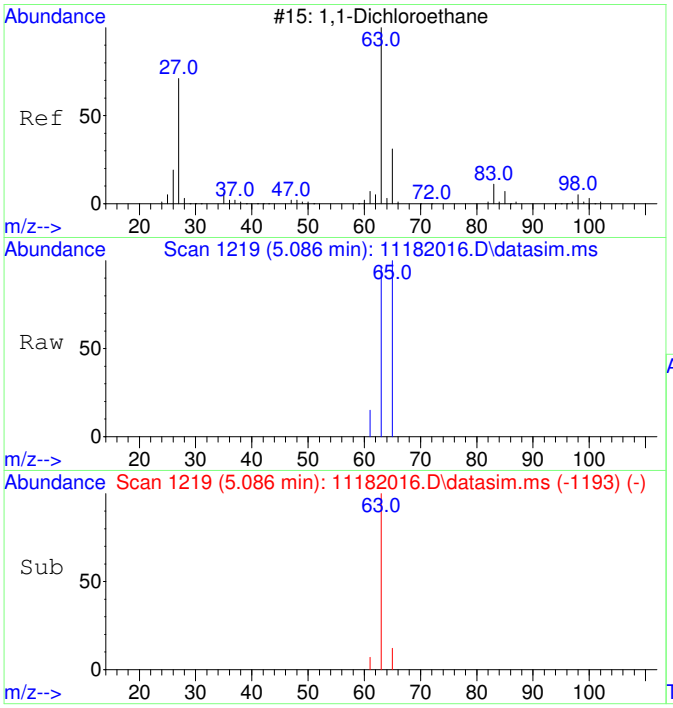


#3
trans-1,2-Dichloroethene
Concen: 74.91 ug/L
RT: 4.376 min Scan# 1112
Delta R.T. 0.033 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 61 Resp: 2404

Ion	Ratio	Lower	Upper
61	100		
63	42.7	2.4	62.4

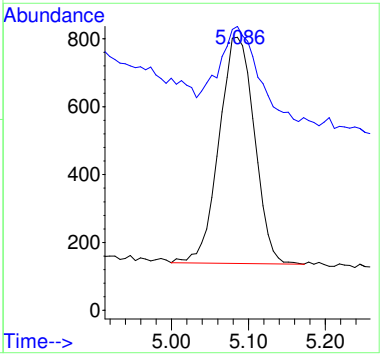


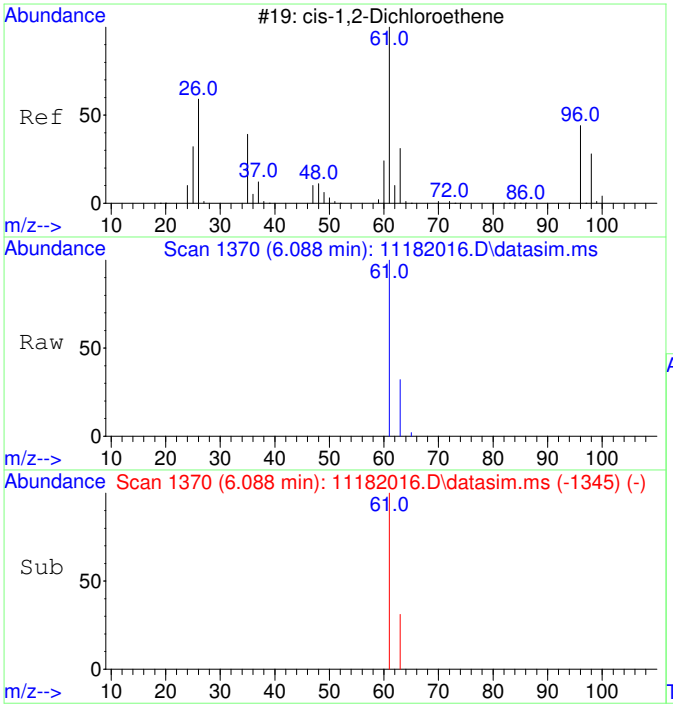


#4
1,1-Dichloroethane
Concen: 53.22 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 63 Resp: 2126

Ion	Ratio	Lower	Upper
63	100		
65	48.5	1.8	61.8

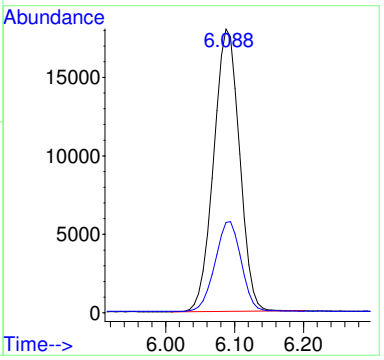


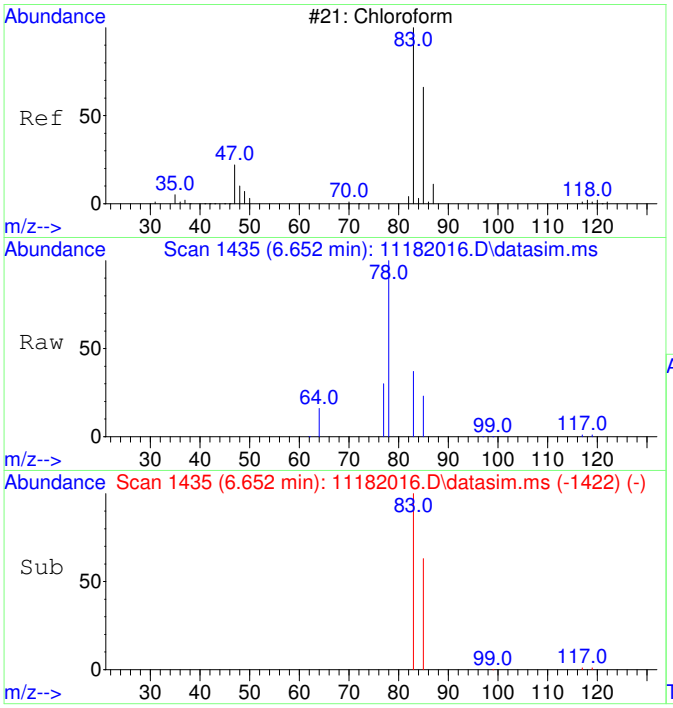


#5
cis-1,2-Dichloroethene
Concen: 1111.99 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 61 Resp: 46893

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

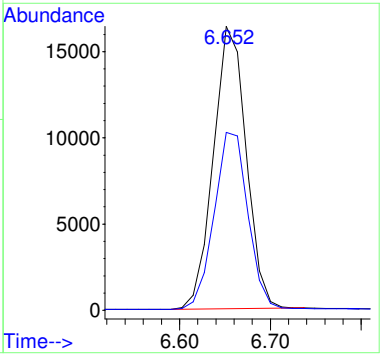


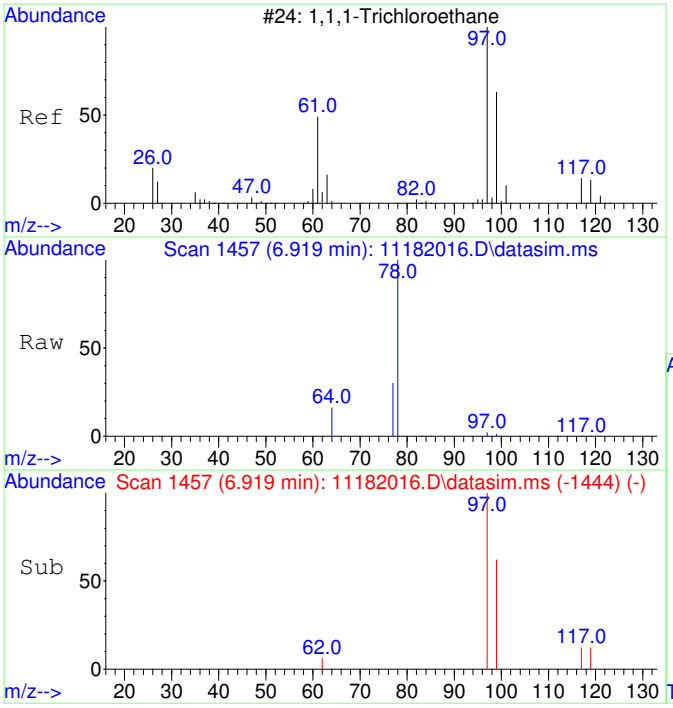


#6
Chloroform
Concen: 952.48 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 83 Resp: 41112

Ion	Ratio	Lower	Upper
83	100		
85	64.2	35.1	95.1

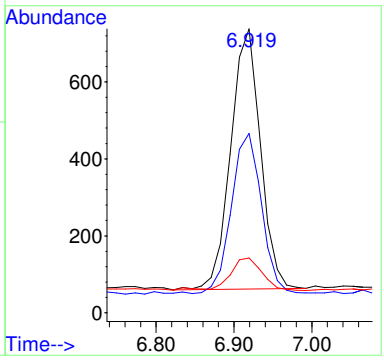


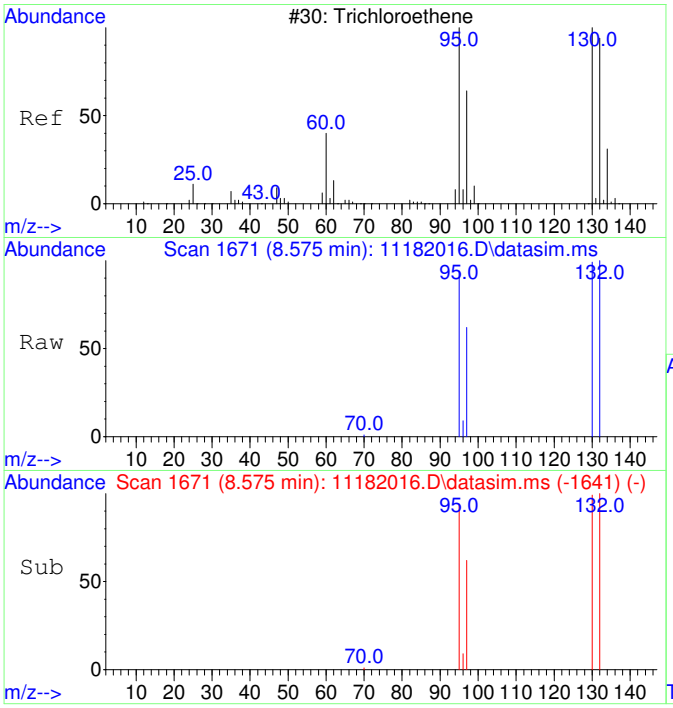


#7
1,1,1-Trichloroethane
Concen: 38.31 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.012 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 97 Resp: 1796

Ion	Ratio	Lower	Upper
97	100		
99	61.9	34.6	94.6
117	13.1	0.0	43.2

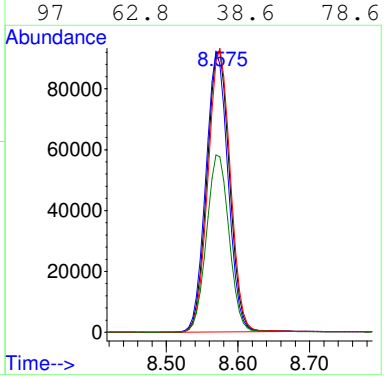


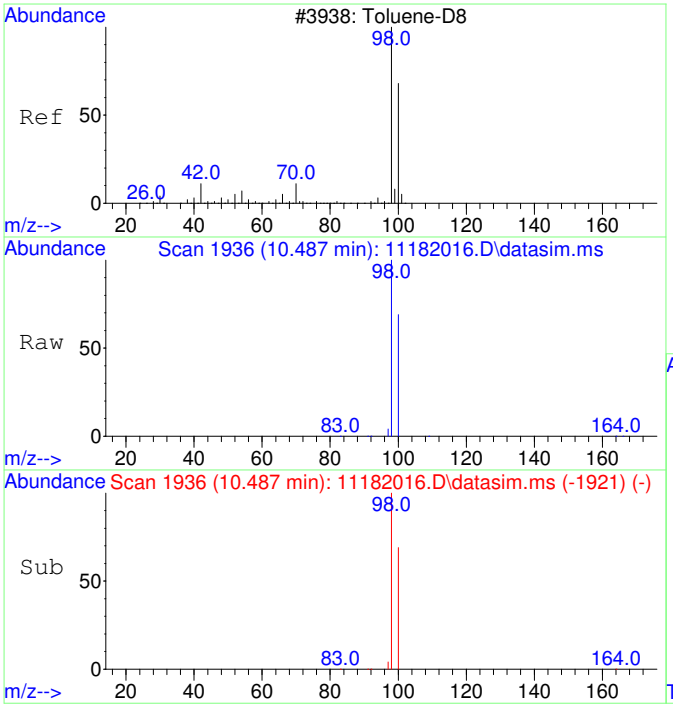


#11
Trichloroethene
Concen: 5669.68 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion:130 Resp: 201762

Ion	Ratio	Lower	Upper
130	100		
95	98.1	60.7	120.7
132	99.4	76.0	116.0
97	62.8	38.6	78.6

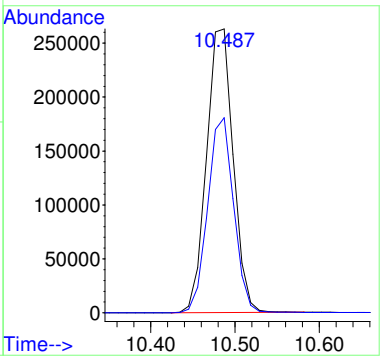


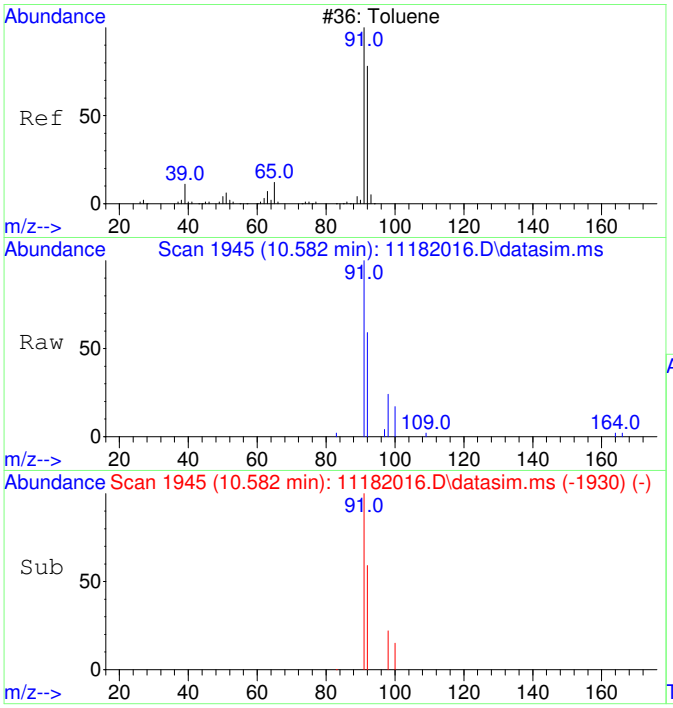


#12
Toluene-d8
Concen: 4256.16 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 98 Resp: 579596

Ion	Ratio	Lower	Upper
98	100		
100	66.7	37.1	97.1

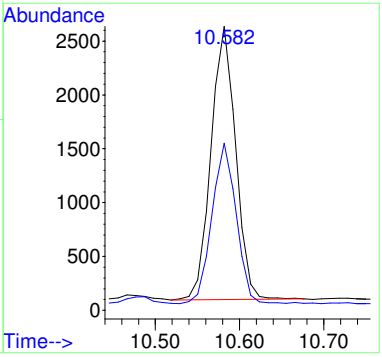


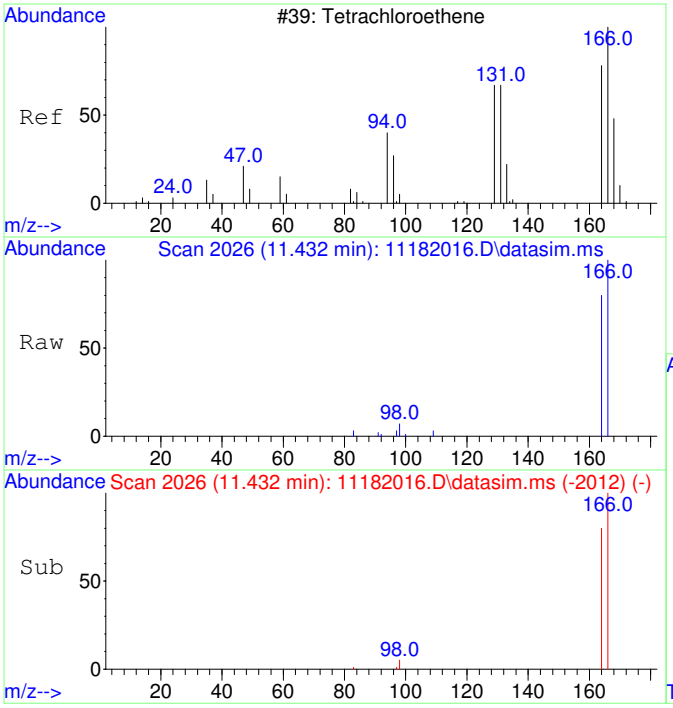


#13
Toluene
Concen: 29.72 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 91 Resp: 5159

Ion	Ratio	Lower	Upper
91	100		
92	57.5	29.9	89.9

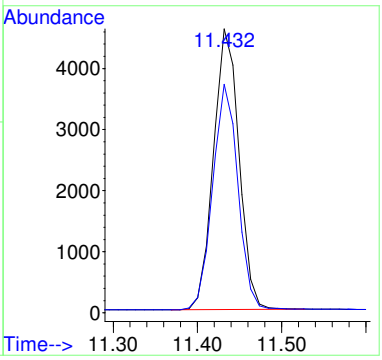


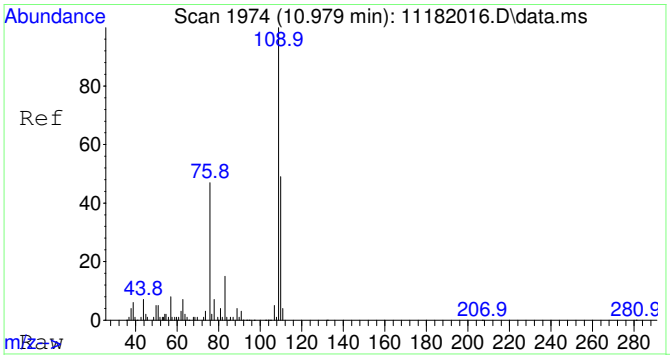


#15
Tetrachloroethene
Concen: 192.70 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion:166 Resp: 9682

Ion	Ratio	Lower	Upper
166	100		
164	79.1	47.8	107.8

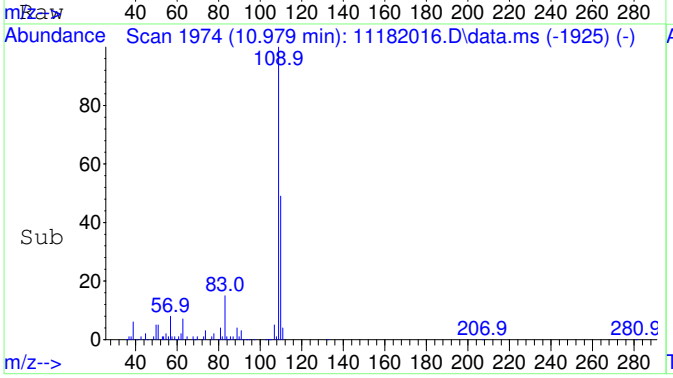


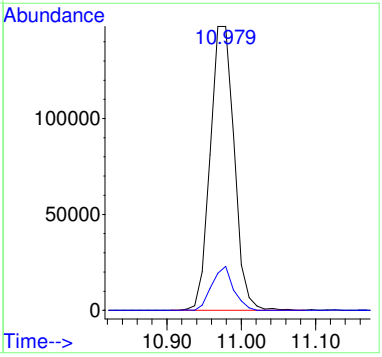


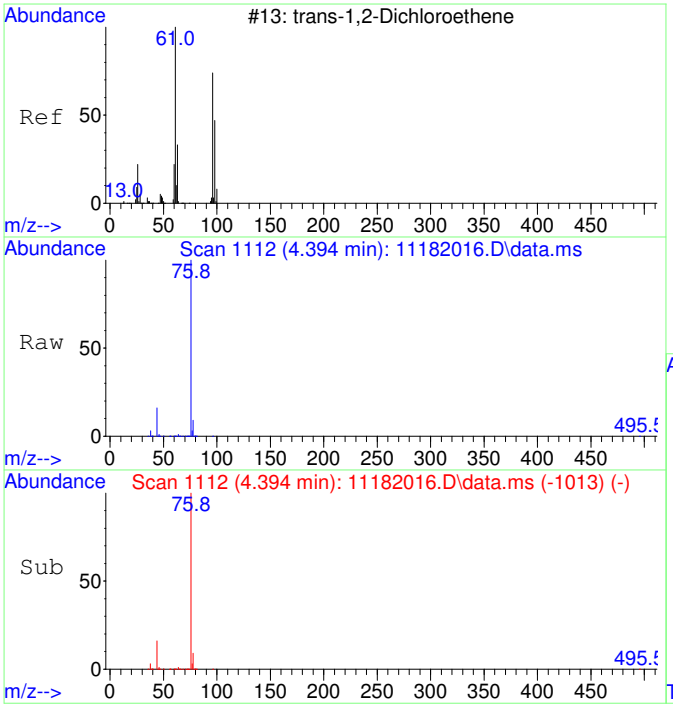
#25
2-Fluorotoluene SCAN
Concen: 4893.74 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion:109 Resp: 331852

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	43.8



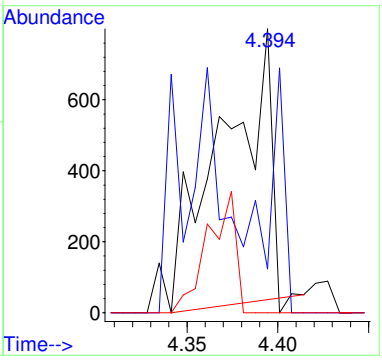


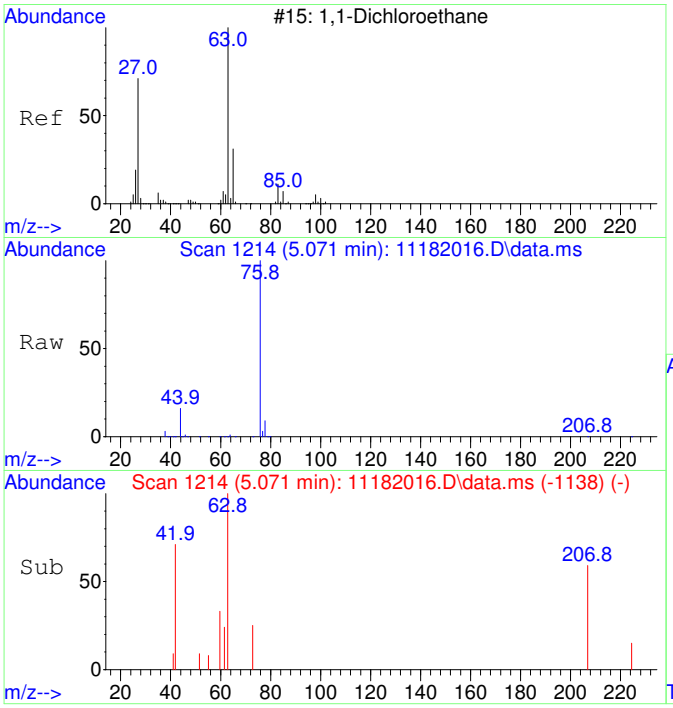


#27
trans-1,2-Dichloroethene SCAN
Concen: 81.82 ug/L
RT: 4.394 min Scan# 1112
Delta R.T. 0.046 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 61 Resp: 1458

Ion	Ratio	Lower	Upper
61	100		
96	20.6	49.0	109.0#
98	0.0	20.5	80.5#

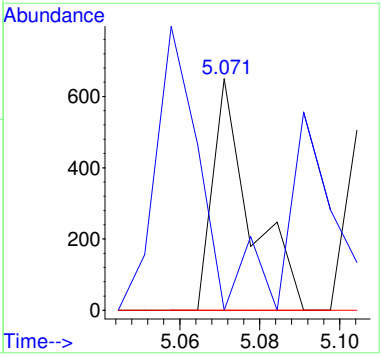


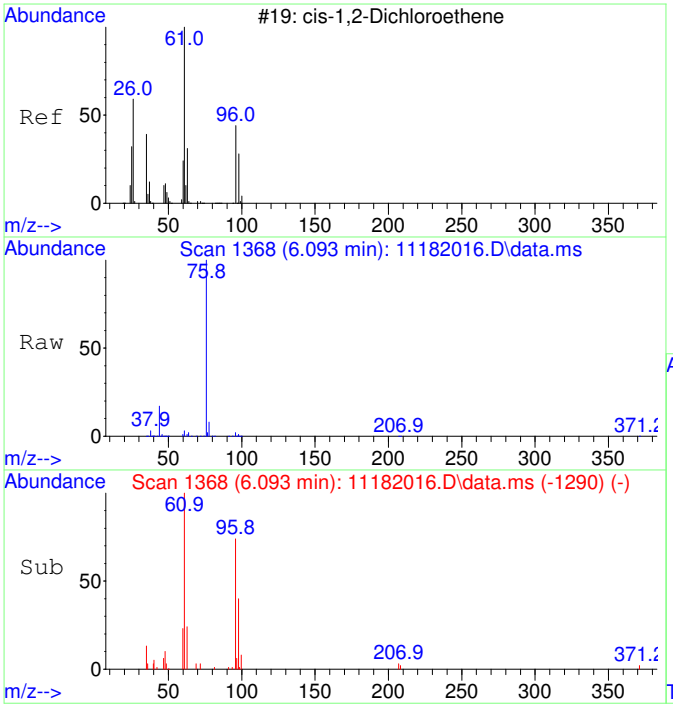


#28
1,1-Dichloroethane SCAN
Concen: 20.80 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.006 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 63 Resp: 429

Ion	Ratio	Lower	Upper
63	100		
65	131.5	1.3	61.3#
83	0.0	0.0	45.9

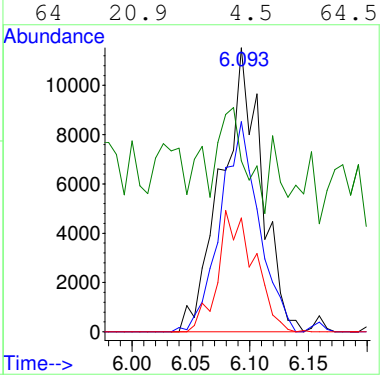


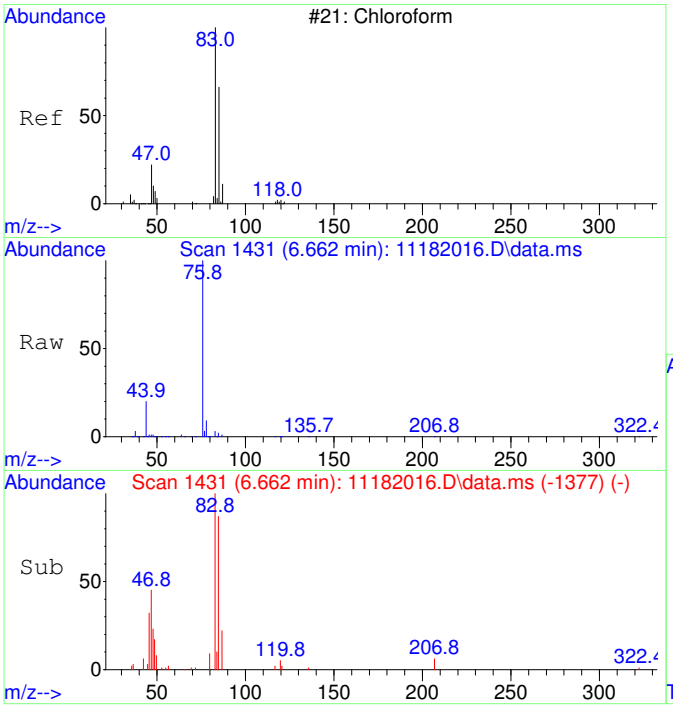


#29
cis-1,2-Dichloroethene SCAN
Concen: 1235.77 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 61 Resp: 27306

Ion	Ratio	Lower	Upper
61	100		
96	71.0	39.9	99.9
98	38.6	13.5	73.5
64	20.9	4.5	64.5

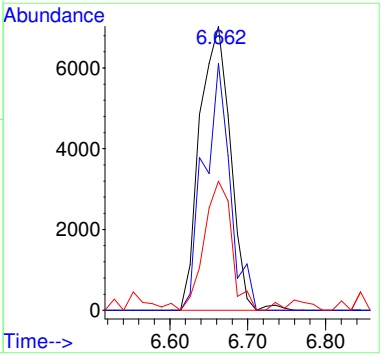


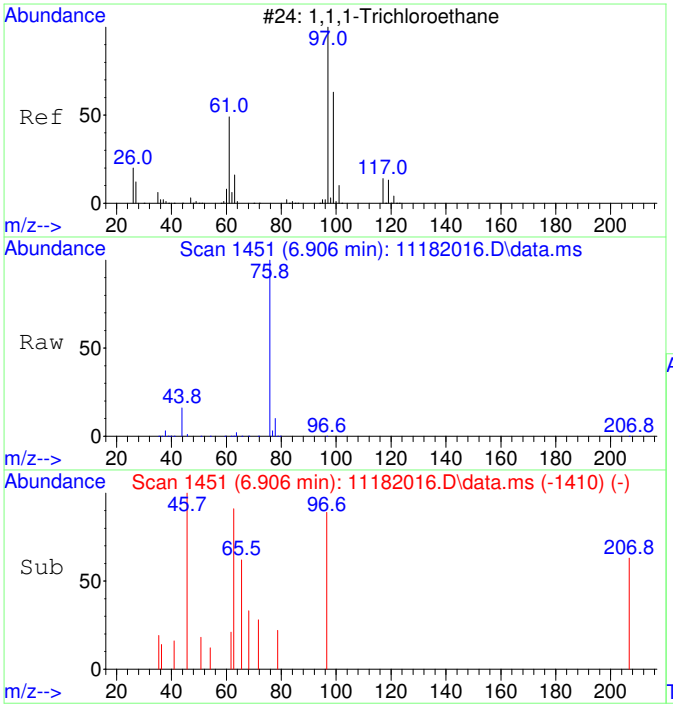


#30
Chloroform SCAN
Concen: 805.08 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 83 Resp: 19295

Ion	Ratio	Lower	Upper
83	100		
85	73.6	34.6	94.6
47	40.3	0.0	53.4

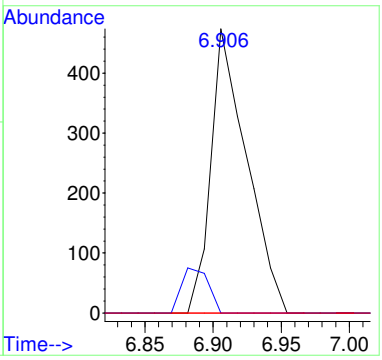


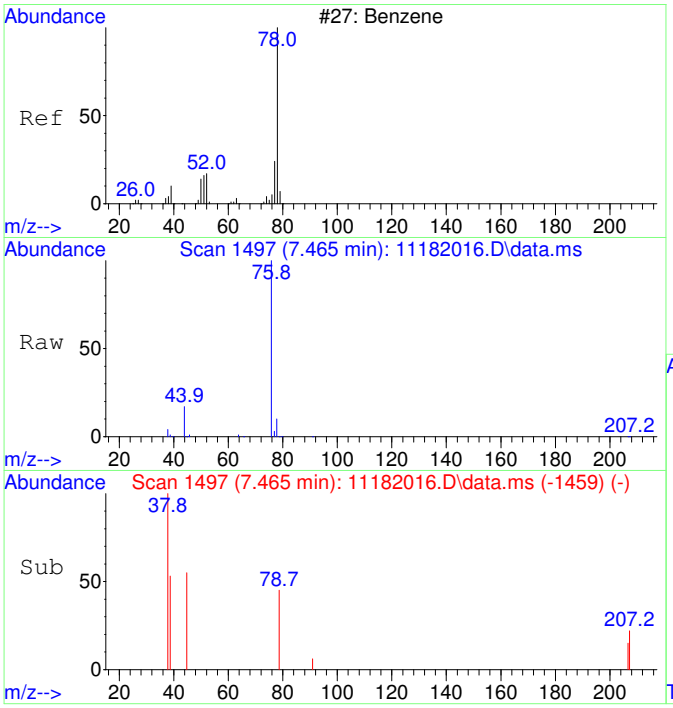


#31
1,1,1-Trichloroethane SCAN
Concen: 39.79 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 97 Resp: 869

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	0.0	18.0	78.0#

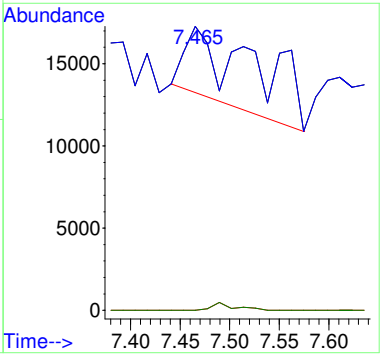


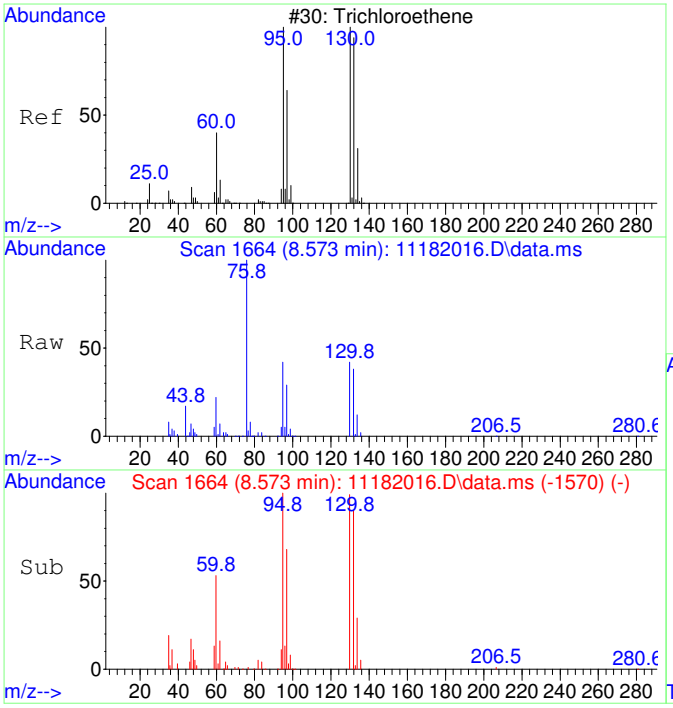


#33
Benzene SCAN
Concen: 357.61 ug/L
RT: 7.465 min Scan# 1497
Delta R.T. -0.037 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 78 Resp: 21505

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	47.9
51	0.0	0.0	44.1

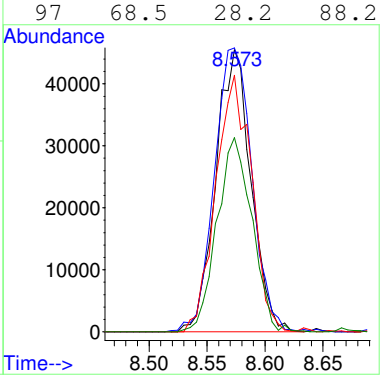


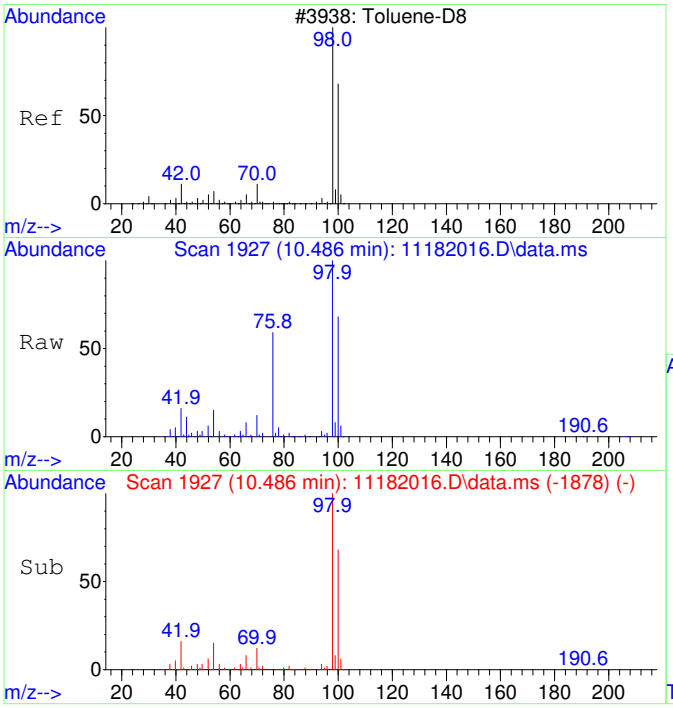


#35
Trichloroethene SCAN
Concen: 5824.74 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion:130 Resp: 96256

Ion	Ratio	Lower	Upper
130	100		
95	106.9	60.5	120.5
132	92.2	59.6	119.6
97	68.5	28.2	88.2

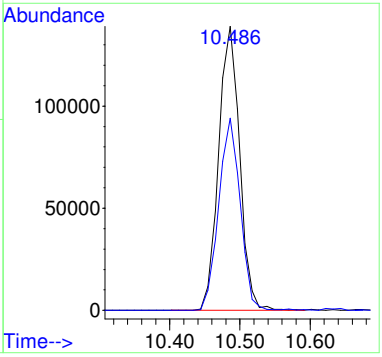


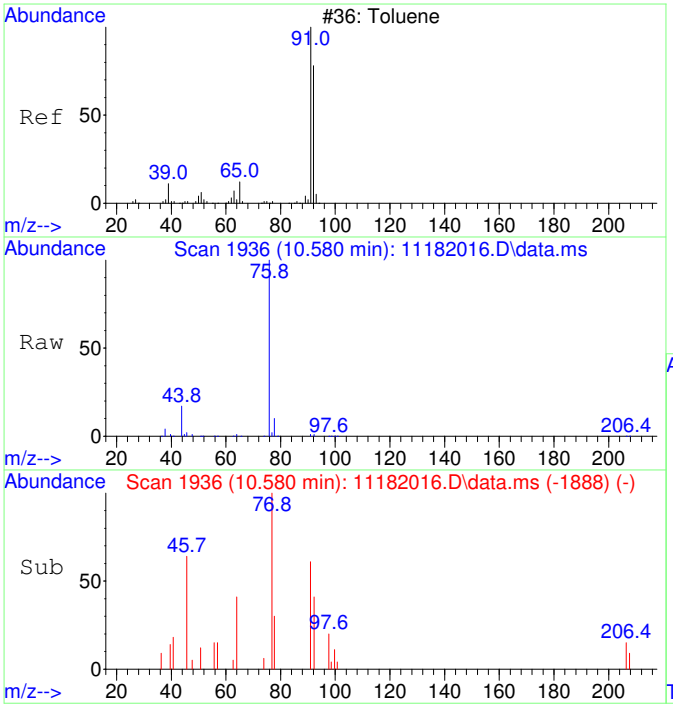


#36
Toluene-d8 SCAN
Concen: 4364.63 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 98 Resp: 289452

Ion	Ratio	Lower	Upper
98	100		
100	68.4	40.0	100.0

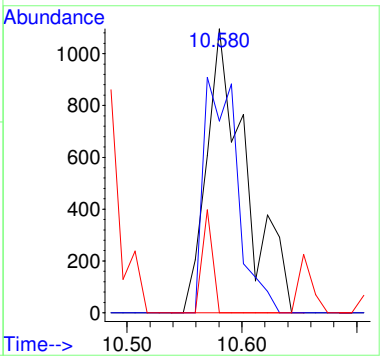


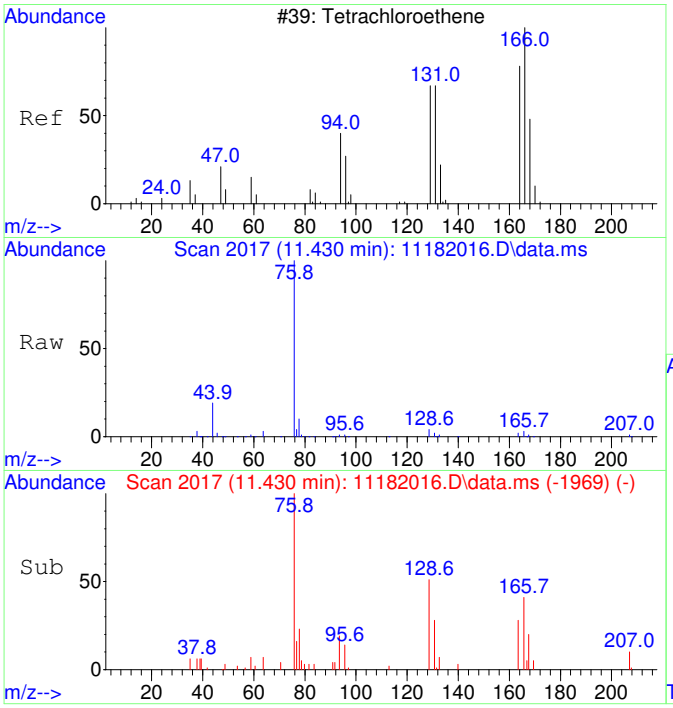


#37
Toluene SCAN
Concen: 30.58 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion: 91 Resp: 2597

Ion	Ratio	Lower	Upper
91	100		
92	71.3	28.3	88.3
65	9.6	0.0	41.0

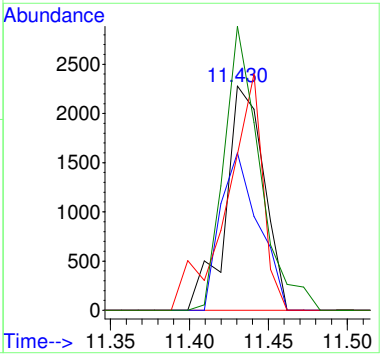




#39
Tetrachloroethene SCAN
Concen: 188.69 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11182016.D
Acq: 18 Nov 2020 15:32

Tgt Ion:166 Resp: 3850

Ion	Ratio	Lower	Upper
166	100		
164	70.0	50.9	110.9
131	98.4	38.7	98.7
129	119.1	41.8	101.8#



2011017-14RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182017.D
Acq On : 18 Nov 2020 15:56
InstName : AG5975C
Operator : TD
Sample : 2011017-14RE1
Misc : 10X DL (180-20)
ALS Vial : 17 Sample Multiplier: 10

Quant Time: Nov 19 06:09:51 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

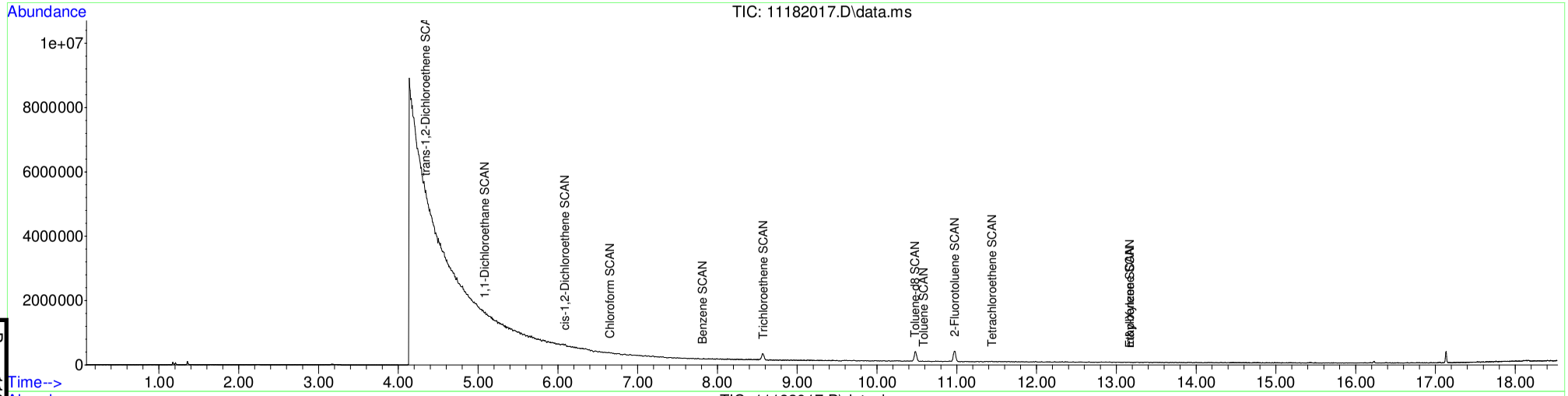
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	592963	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	495265	4266.62	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 85.33%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	1945	82.14	ug/L	93
3] trans-1,2-Dichloroethene	4.356	61	1915	70.00	ug/L	69
4] 1,1-Dichloroethane	5.079	63	1882	55.27	ug/L #	45
5] cis-1,2-Dichloroethene	6.081	61	37994	1056.97	ug/L	99
6] Chloroform	6.652	83	37166	1010.15	ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	1392	34.84	ug/L	100
9] Benzene	7.503	78	3270	32.46	ug/L #	4
11] Trichloroethene	8.569	130	152705	5034.15	ug/L RPT	95
13] Toluene	10.582	91	5448	36.81	ug/L	98
15] Tetrachloroethene	11.432	166	6900	161.11	ug/L	100
19] m&p-Xylene	13.162	91	3244	23.04	ug/L	96
25) 2-Fluorotoluene SCAN	10.969	109	277042	4792.87	ug/L	99
27) trans-1,2-Dichloroethe...	4.341	61	623	41.01	ug/L #	47
28) 1,1-Dichloroethane SCAN	5.078	63	606	34.47	ug/L #	1
29) cis-1,2-Dichloroethene...	6.086	61	20625	1095.03	ug/L #	77
30) Chloroform SCAN	6.650	83	20779	1017.12	ug/L	90
33) Benzene SCAN	7.817	78	6593	128.62	ug/L	91
35) Trichloroethene SCAN	8.568	130	65232	4630.88	ug/L	76
36) Toluene-d8 SCAN	10.476	98	239463	4236.07	ug/L	89
37) Toluene SCAN	10.580	91	3770	52.08	ug/L	83
39) Tetrachloroethene SCAN	11.441	166	3704	212.96	ug/L #	59
42) Ethylbenzene SCAN	13.169	91	2648	20.08	ug/L	89
43) m&p-Xylene SCAN	13.169	91	2648	20.08	ug/L #	78

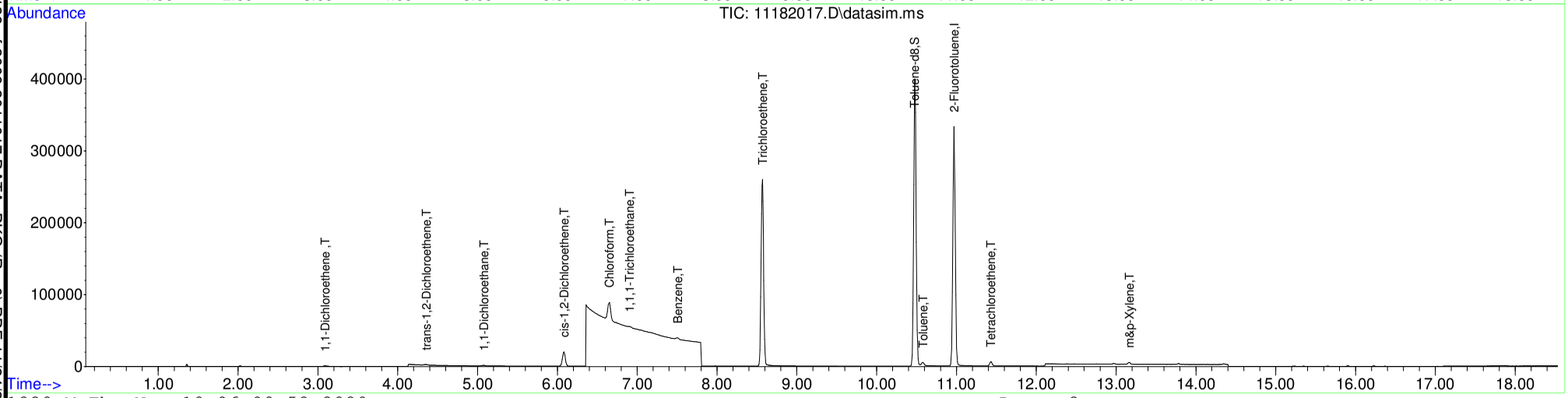
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182017.D
Acq On : 18 Nov 2020 15:56
InstName : AG5975C
Operator : TD
Sample : 2011017-14RE1
Misc : 10X DL (180-20)
ALS Vial : 17 Sample Multiplier: 10

Quant Time: Nov 19 06:09:51 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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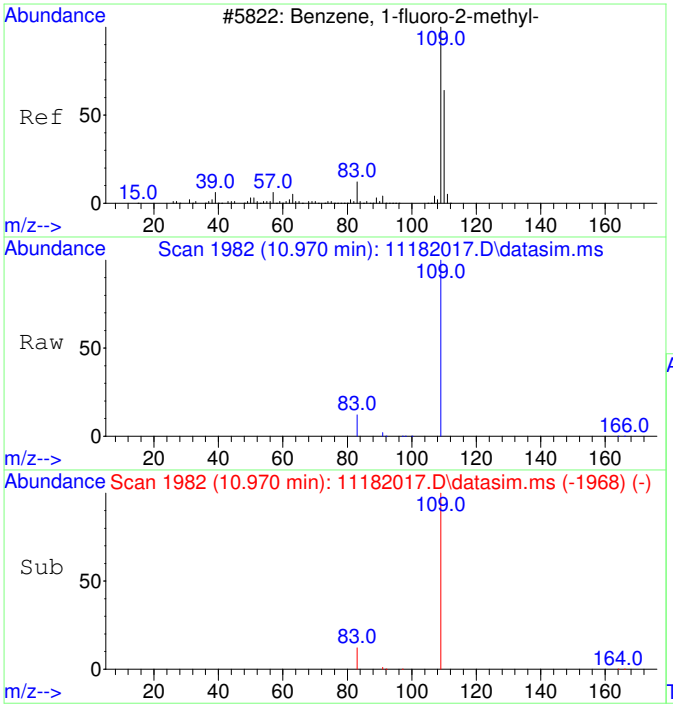
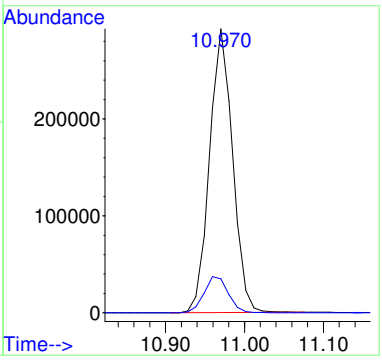
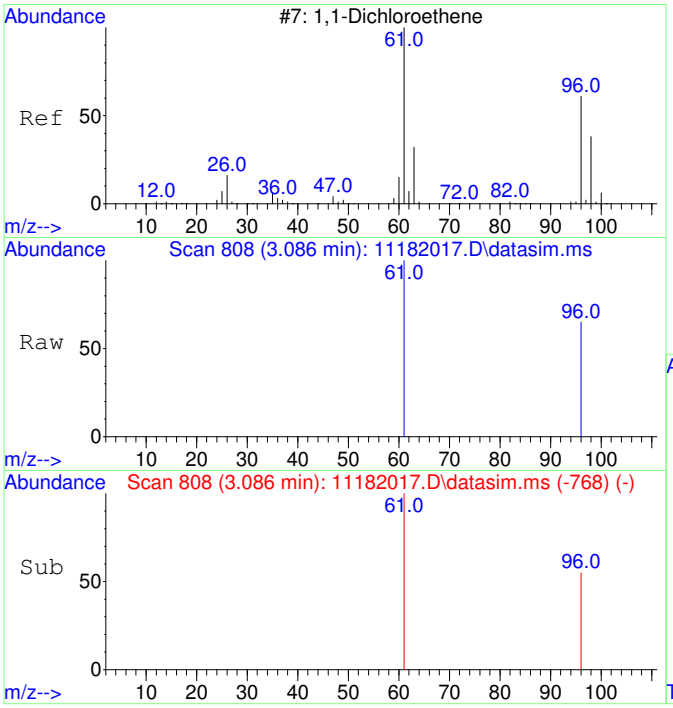


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion:109 Resp: 592963

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

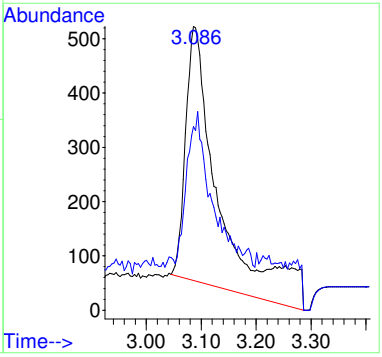


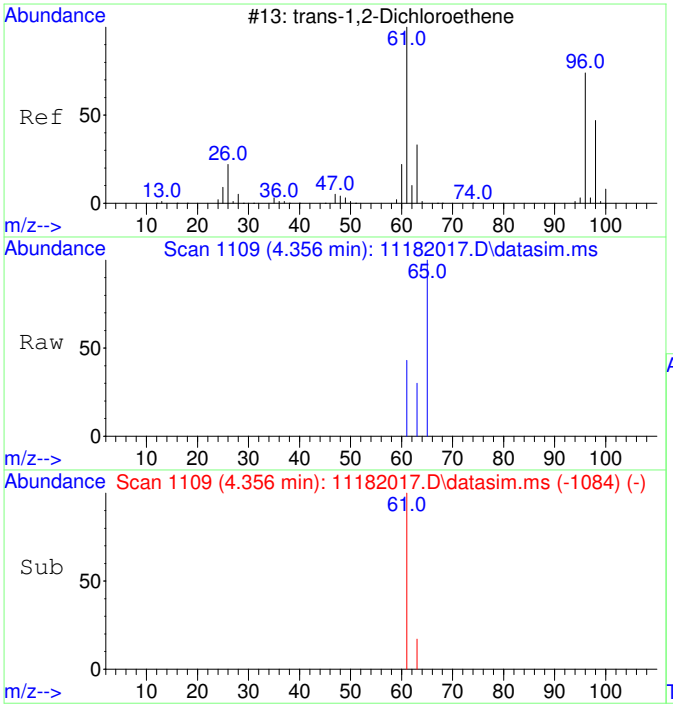


#2
1,1-Dichloroethene
Concen: 82.14 ug/L
RT: 3.086 min Scan# 808
Delta R.T. 0.000 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 61 Resp: 1945

Ion	Ratio	Lower	Upper
61	100		
96	61.4	37.2	97.2

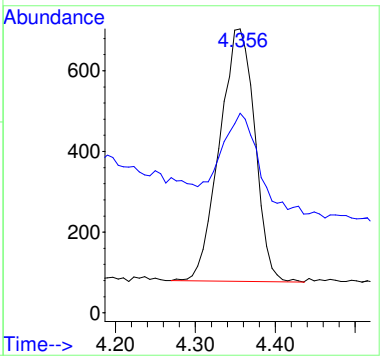


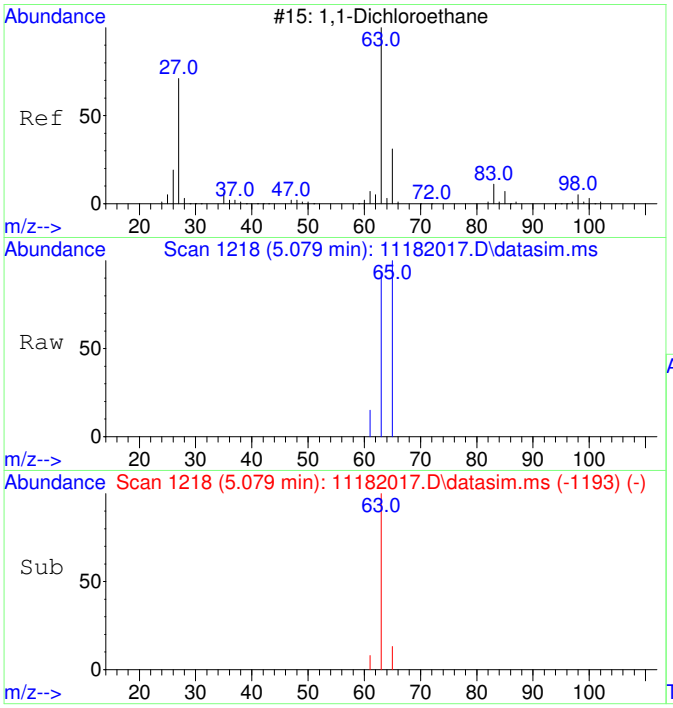


#3
trans-1,2-Dichloroethene
Concen: 70.00 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 61 Resp: 1915

Ion	Ratio	Lower	Upper
61	100		
63	49.6	2.4	62.4

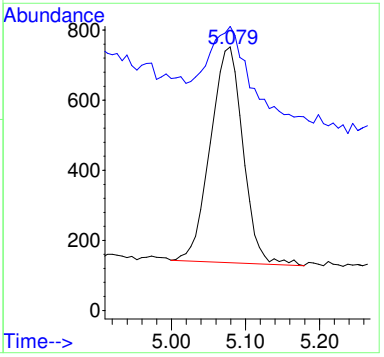


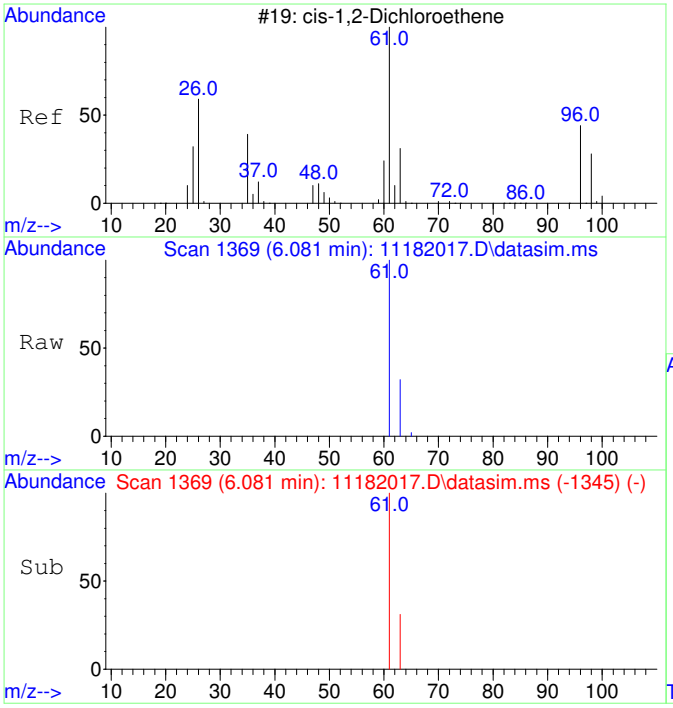


#4
1,1-Dichloroethane
Concen: 55.27 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 63 Resp: 1882

Ion	Ratio	Lower	Upper
63	100		
65	62.6	1.8	61.8#

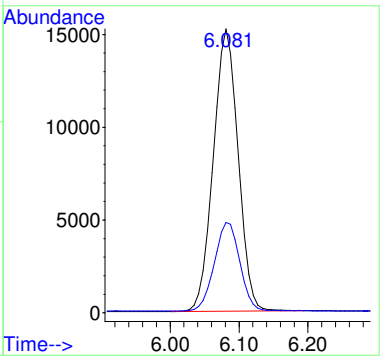


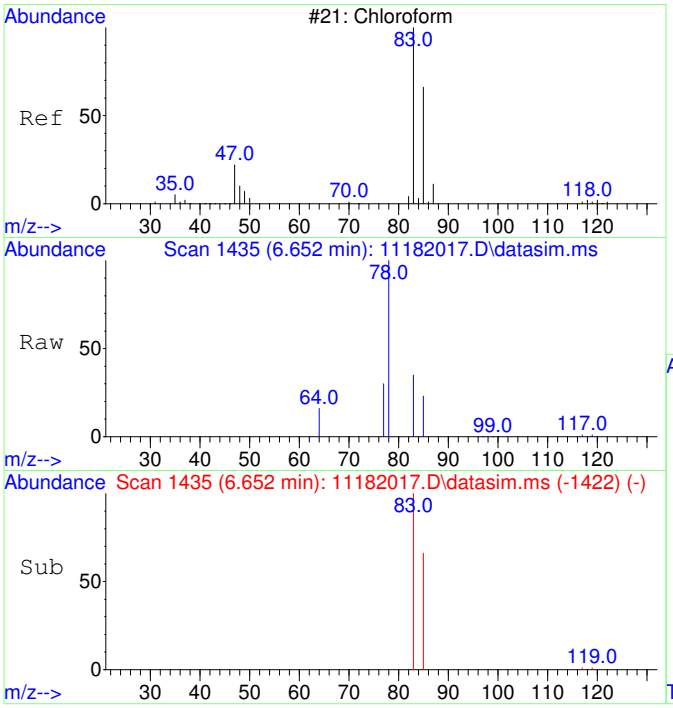


#5
cis-1,2-Dichloroethene
Concen: 1056.97 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 61 Resp: 37994

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

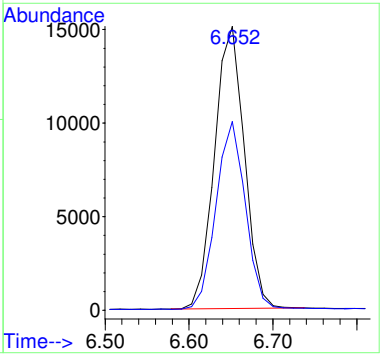


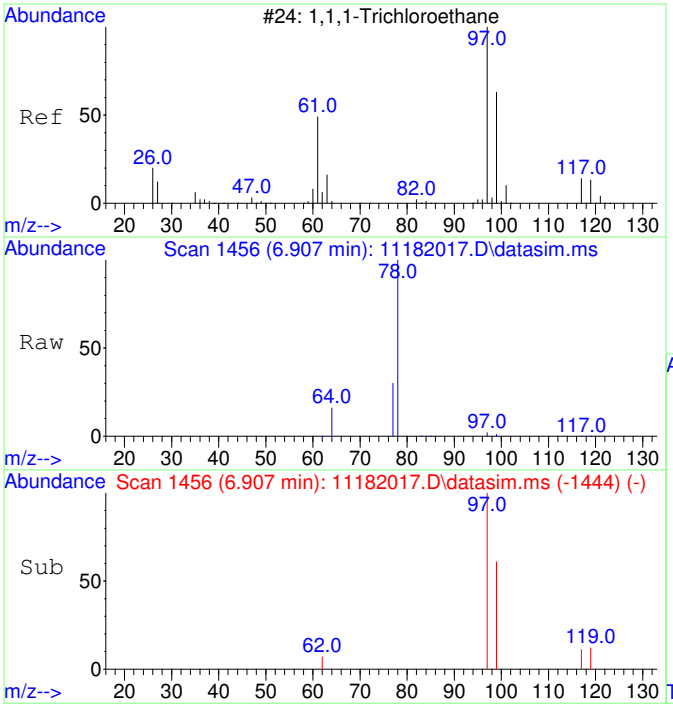


#6
Chloroform
Concen: 1010.15 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 83 Resp: 37166

Ion	Ratio	Lower	Upper
83	100		
85	65.0	35.1	95.1

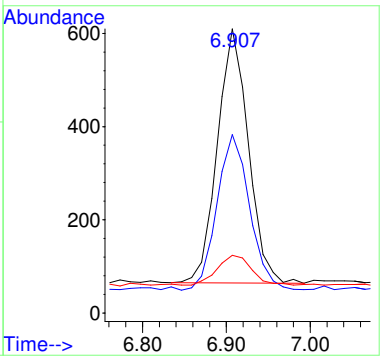


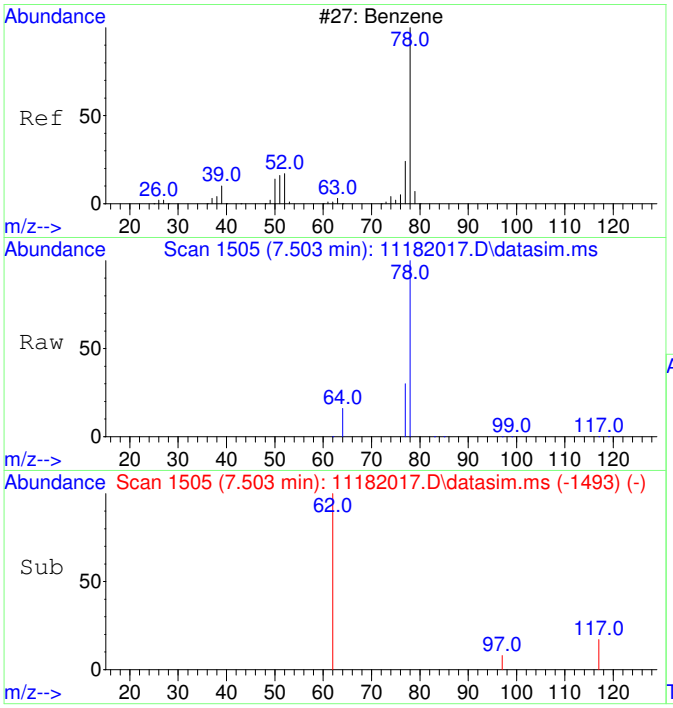


#7
1,1,1-Trichloroethane
Concen: 34.84 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 97 Resp: 1392

Ion	Ratio	Lower	Upper
97	100		
99	64.4	34.6	94.6
117	13.1	0.0	43.2

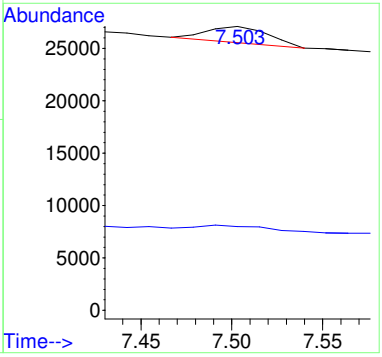


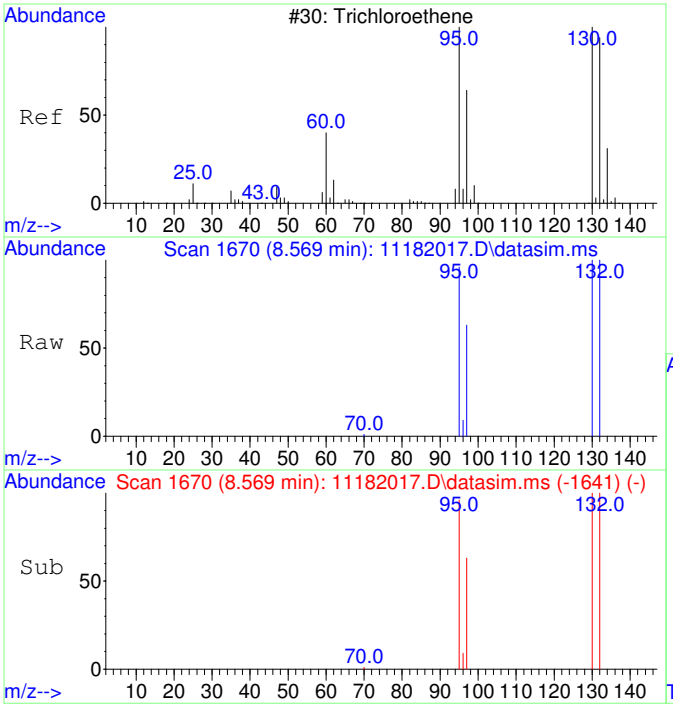


#9
Benzene
Concen: 32.46 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 78 Resp: 3270

Ion	Ratio	Lower	Upper
78	100		
77	70.0	0.0	53.2#

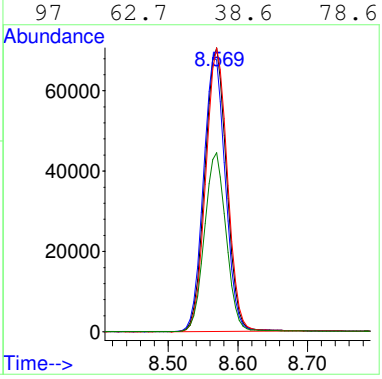


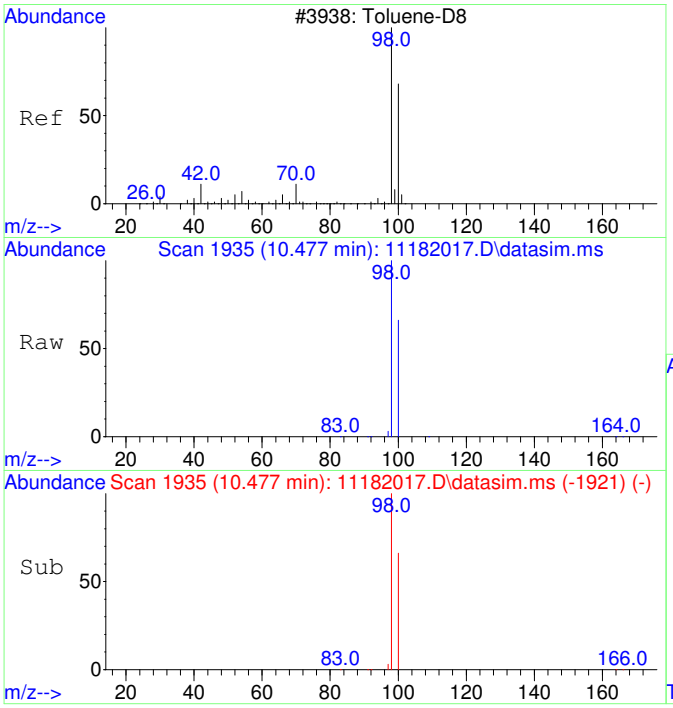


#11
Trichloroethene
Concen: 5034.15 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion:130 Resp: 152705

Ion	Ratio	Lower	Upper
130	100		
95	97.8	60.7	120.7
132	99.6	76.0	116.0
97	62.7	38.6	78.6

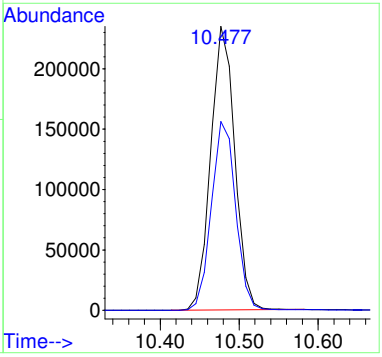


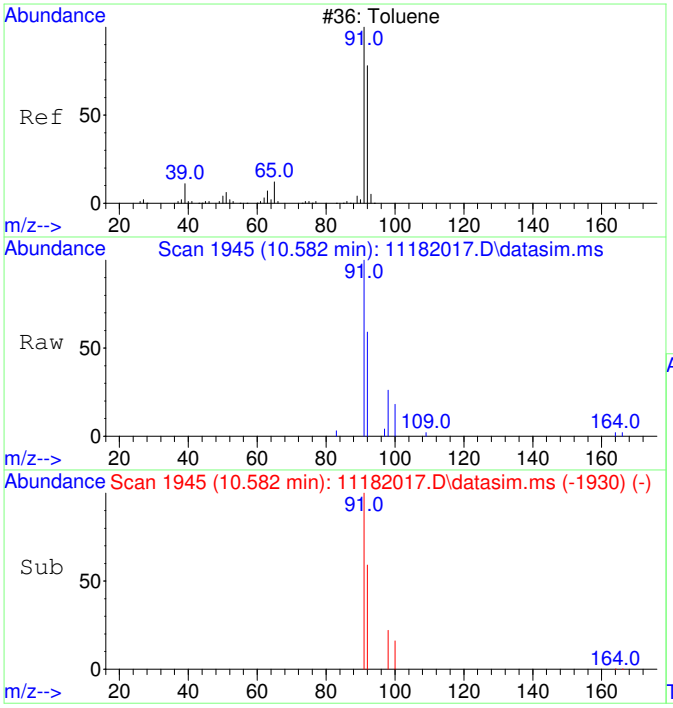


#12
Toluene-d8
Concen: 4266.62 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 98 Resp: 495265

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.1	97.1

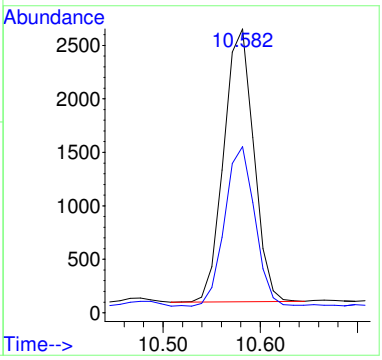


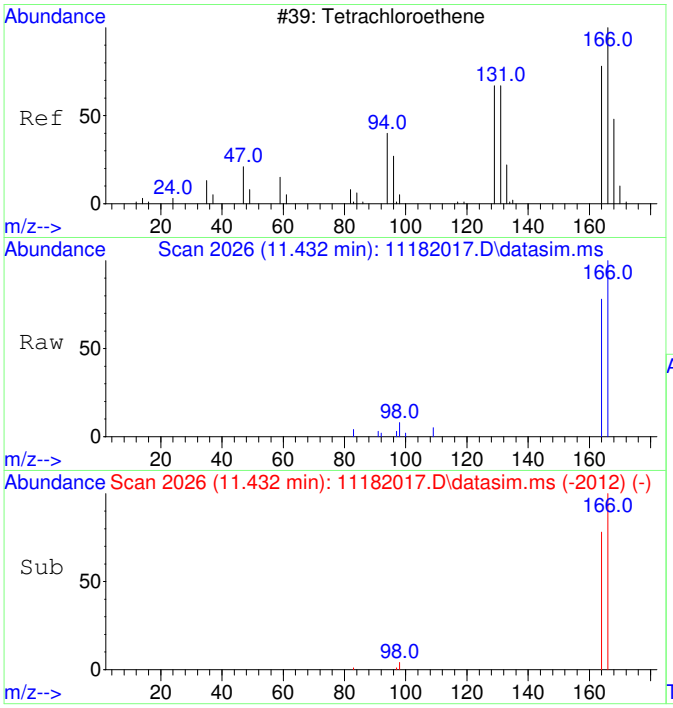


#13
Toluene
Concen: 36.81 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 91 Resp: 5448

Ion	Ratio	Lower	Upper
91	100		
92	58.3	29.9	89.9

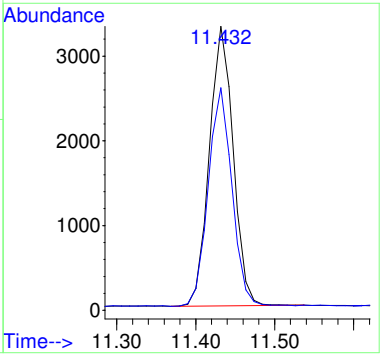


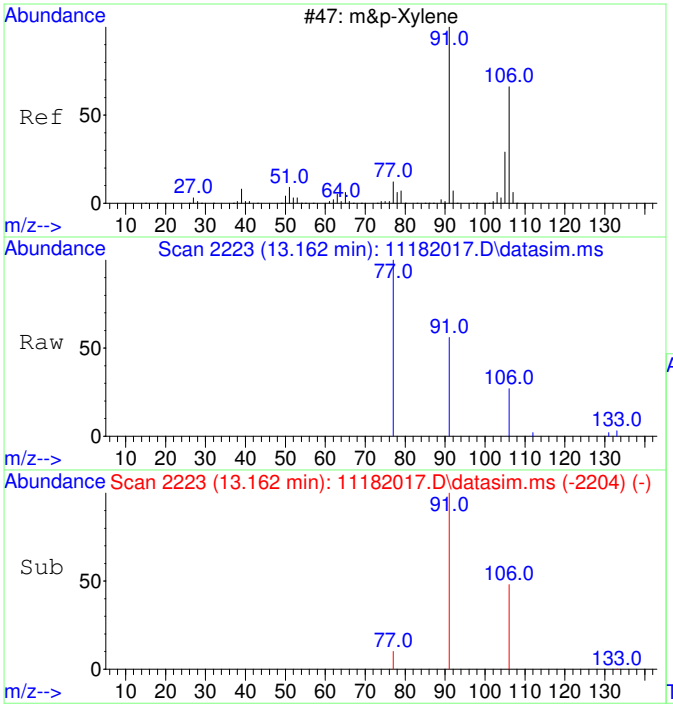


#15
Tetrachloroethene
Concen: 161.11 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion:166 Resp: 6900

Ion	Ratio	Lower	Upper
166	100		
164	77.7	47.8	107.8

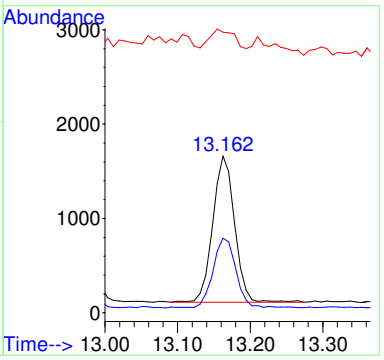


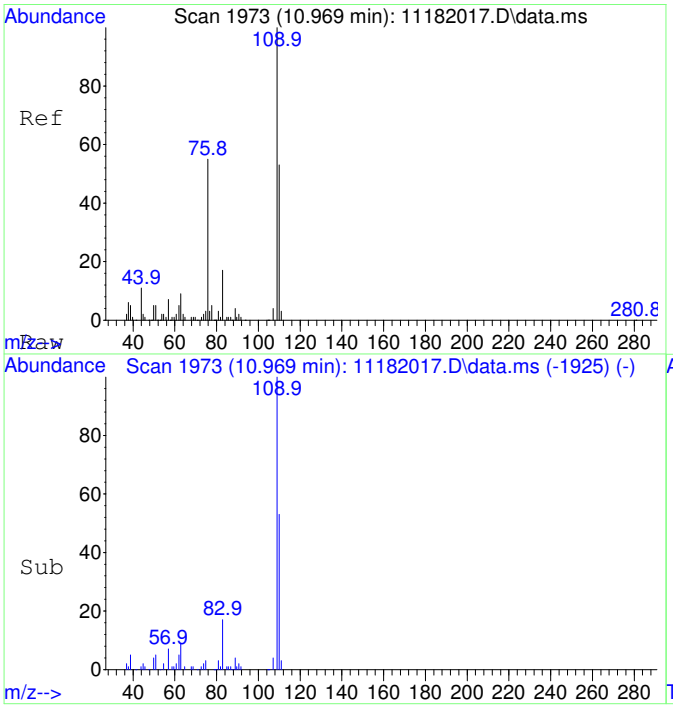


#19
m&p-Xylene
Concen: 23.04 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 91 Resp: 3244

Ion	Ratio	Lower	Upper
91	100		
106	49.6	22.2	82.2
77	15.4	0.0	42.4

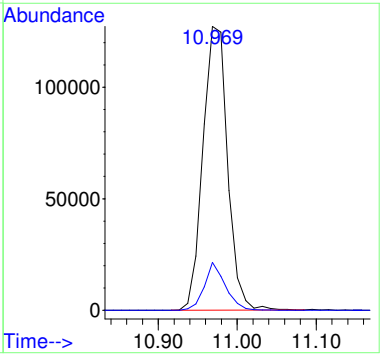


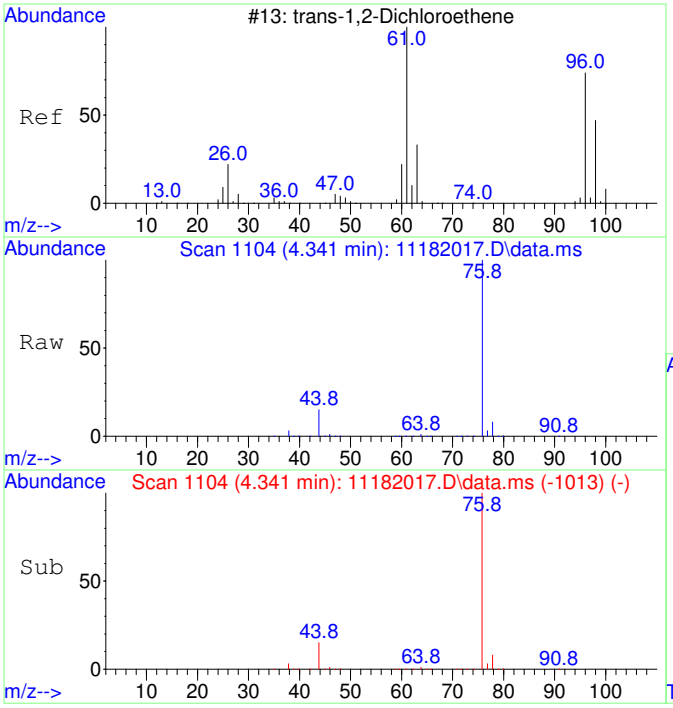


#25
2-Fluorotoluene SCAN
Concen: 4792.87 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion:109 Resp: 277042

Ion	Ratio	Lower	Upper
109	100		
83	14.4	0.0	43.8

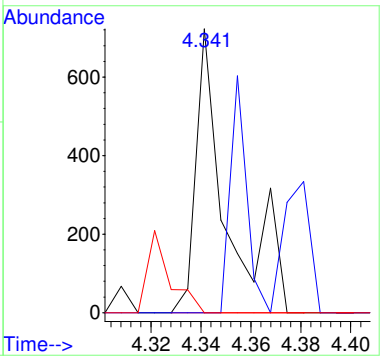


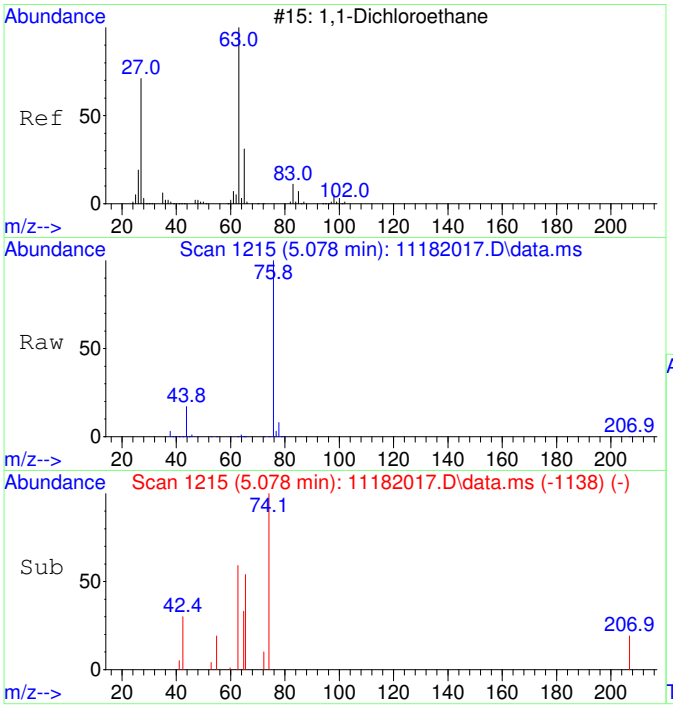


#27
trans-1,2-Dichloroethene SCAN
Concen: 41.01 ug/L
RT: 4.341 min Scan# 1104
Delta R.T. -0.007 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 61 Resp: 623

Ion	Ratio	Lower	Upper
61	100		
96	44.1	49.0	109.0#
98	0.0	20.5	80.5#

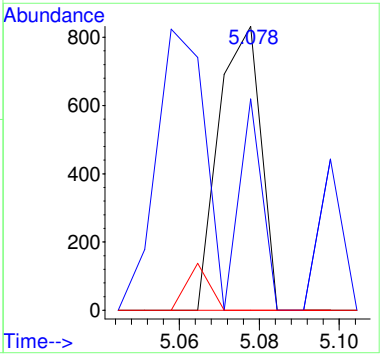


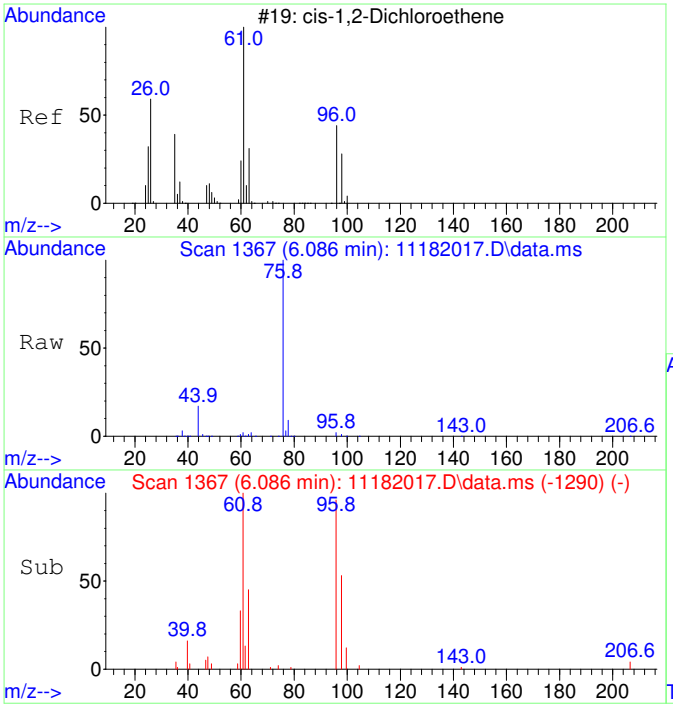


#28
1,1-Dichloroethane SCAN
Concen: 34.47 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 63 Resp: 606

Ion	Ratio	Lower	Upper
63	100		
65	155.1	1.3	61.3#
83	9.1	0.0	45.9

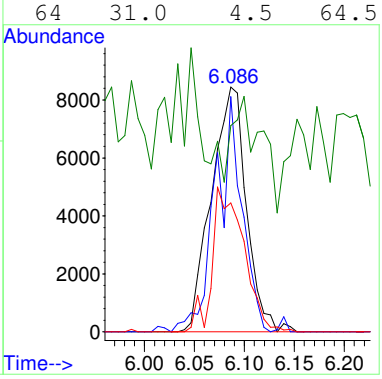


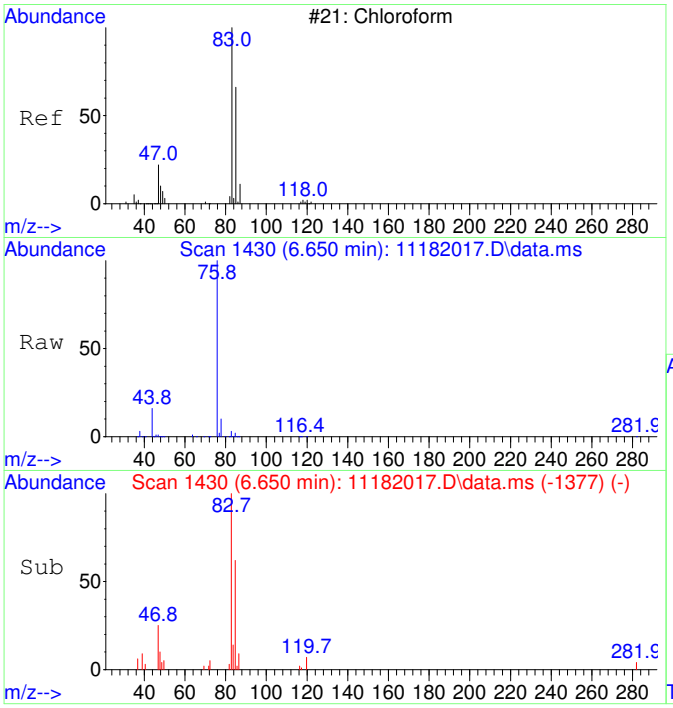


#29
cis-1,2-Dichloroethene SCAN
Concen: 1095.03 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 61 Resp: 20625

Ion	Ratio	Lower	Upper
61	100		
96	73.6	39.9	99.9
98	0.0	13.5	73.5#
64	31.0	4.5	64.5

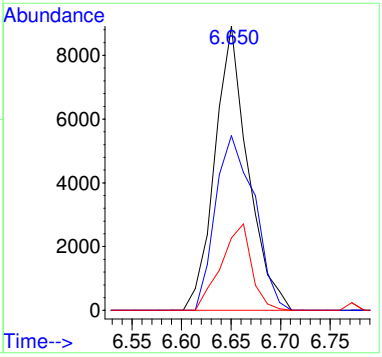


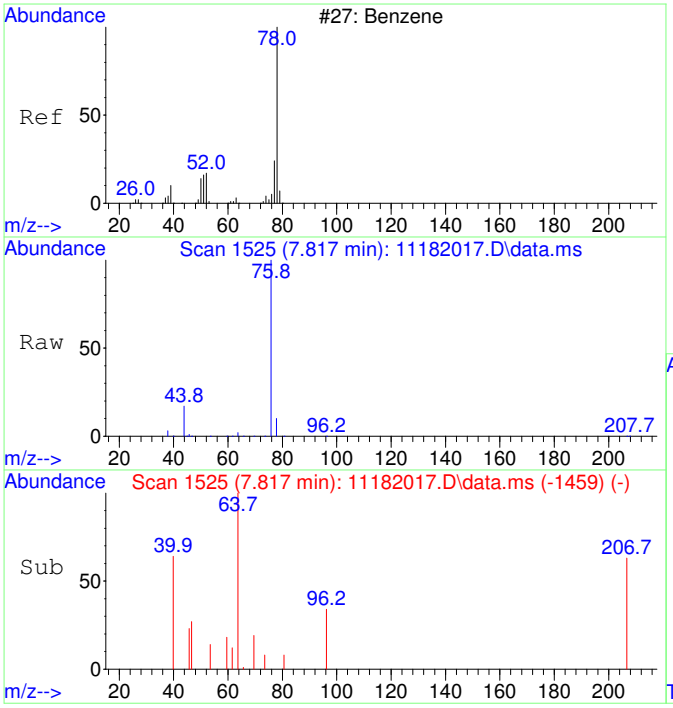


#30
Chloroform SCAN
Concen: 1017.12 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 83 Resp: 20779

Ion	Ratio	Lower	Upper
83	100		
85	72.1	34.6	94.6
47	28.0	0.0	53.4

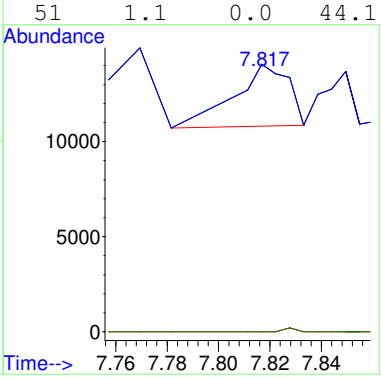


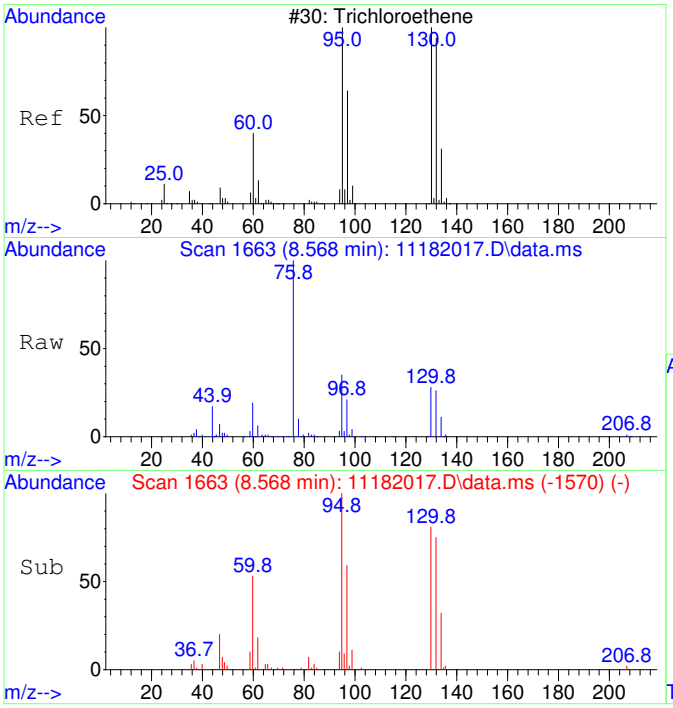


#33
Benzene SCAN
Concen: 128.62 ug/L
RT: 7.817 min Scan# 1525
Delta R.T. 0.315 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 78 Resp: 6593

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.1	0.0	47.9
51	1.1	0.0	44.1

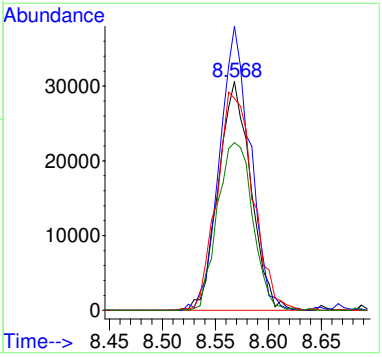


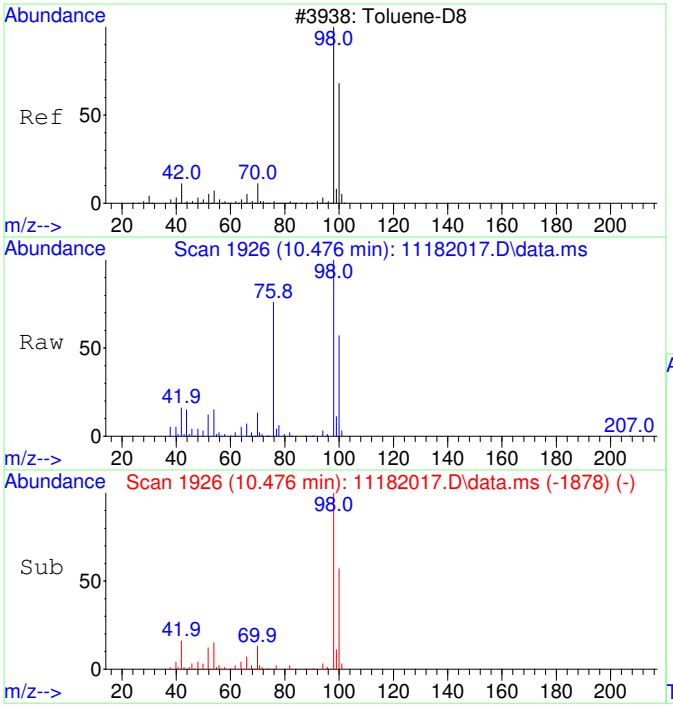


#35
Trichloroethene SCAN
Concen: 4630.88 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion:130 Resp: 65232

Ion	Ratio	Lower	Upper
130	100		
95	117.0	60.5	120.5
132	105.9	59.6	119.6
97	79.6	28.2	88.2

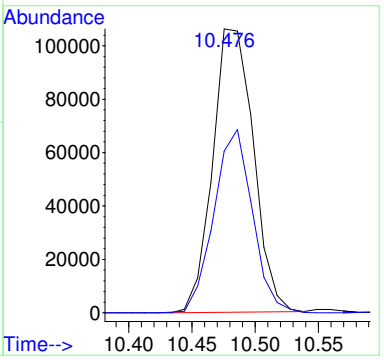


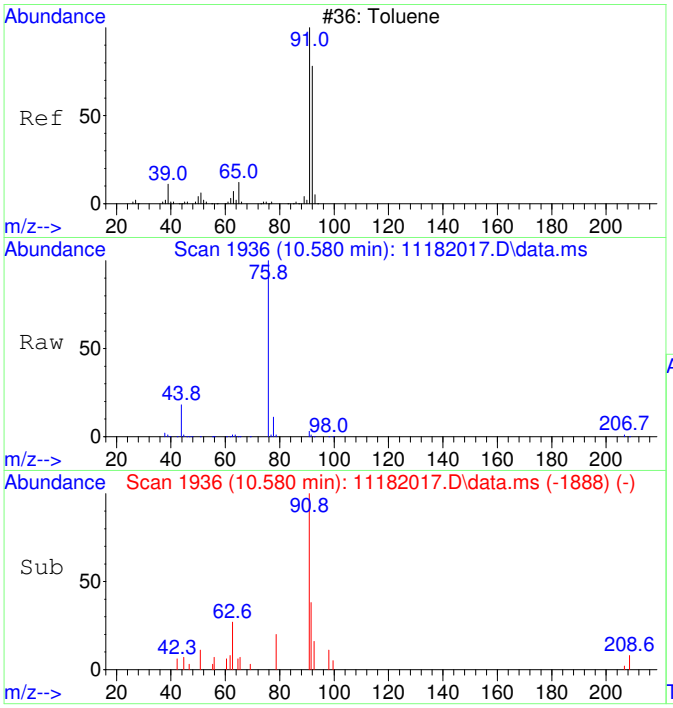


#36
Toluene-d8 SCAN
Concen: 4236.07 ug/L
RT: 10.476 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 98 Resp: 239463

Ion	Ratio	Lower	Upper
98	100		
100	60.9	40.0	100.0

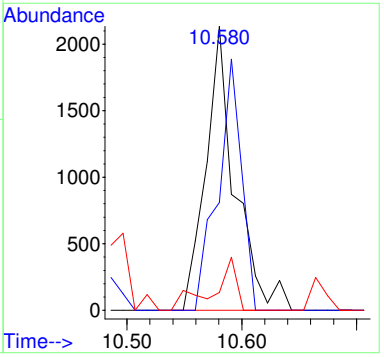


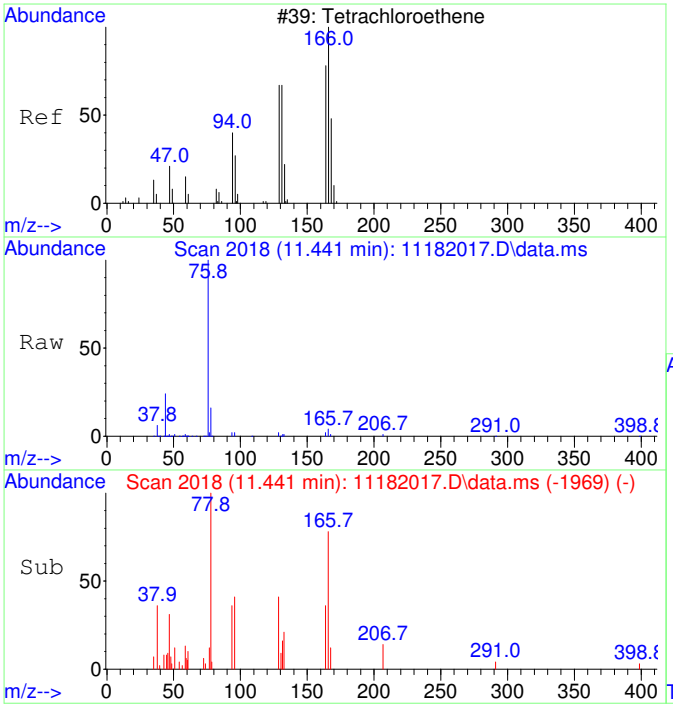


#37
Toluene SCAN
Concen: 52.08 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 91 Resp: 3770

Ion	Ratio	Lower	Upper
91	100		
92	71.8	28.3	88.3
65	14.7	0.0	41.0

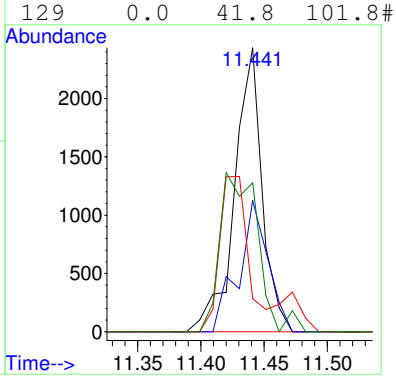


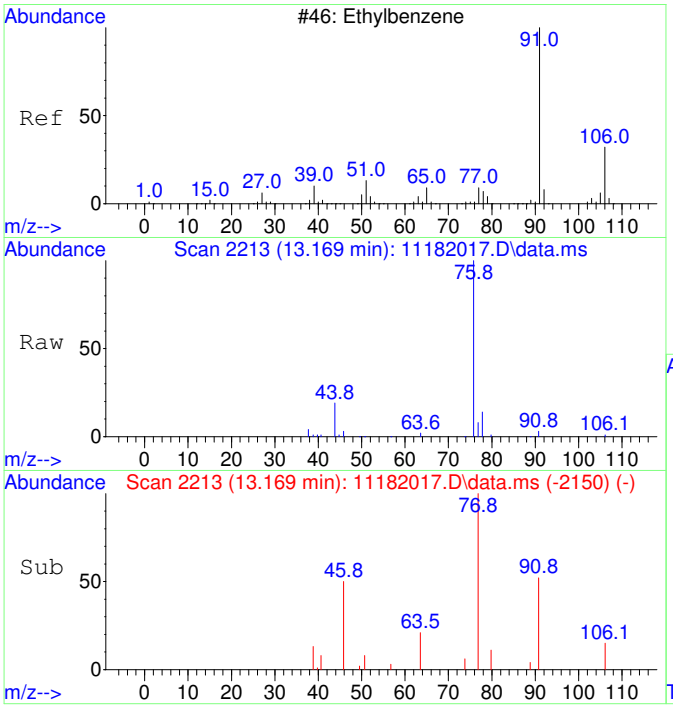


#39
Tetrachloroethene SCAN
Concen: 212.96 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion:166 Resp: 3704

Ion	Ratio	Lower	Upper
166	100		
164	49.5	50.9	110.9#
131	68.4	38.7	98.7
129	0.0	41.8	101.8#

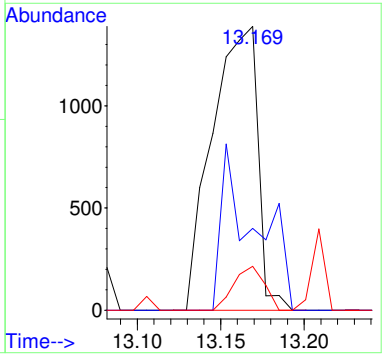


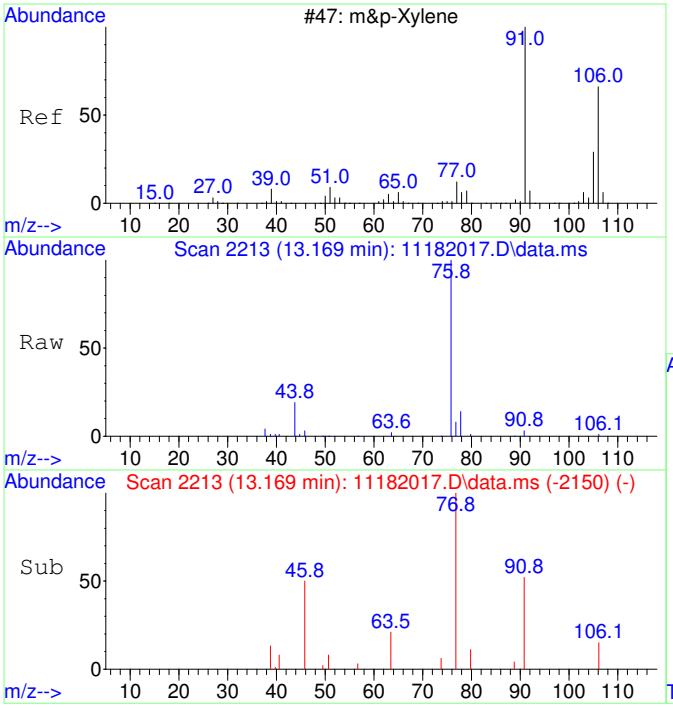


#42
Ethylbenzene SCAN
Concen: 20.08 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 91 Resp: 2648

Ion	Ratio	Lower	Upper
91	100		
106	43.5	23.1	83.1
51	10.4	0.0	40.1

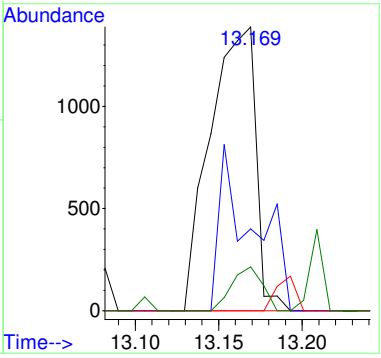




#43
m&p-Xylene SCAN
Concen: 20.08 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11182017.D
Acq: 18 Nov 2020 15:56

Tgt Ion: 91 Resp: 2648

Ion	Ratio	Lower	Upper
91	100		
106	43.5	23.1	83.1
105	0.0	0.0	54.7
51	10.4	0.0	40.1



2011017-18RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182018.D
Acq On : 18 Nov 2020 16:20
InstName : AG5975C
Operator : TD
Sample : 2011017-18RE1
Misc : 10X DL (180-20)
ALS Vial : 18 Sample Multiplier: 10

Quant Time: Nov 19 06:09:56 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

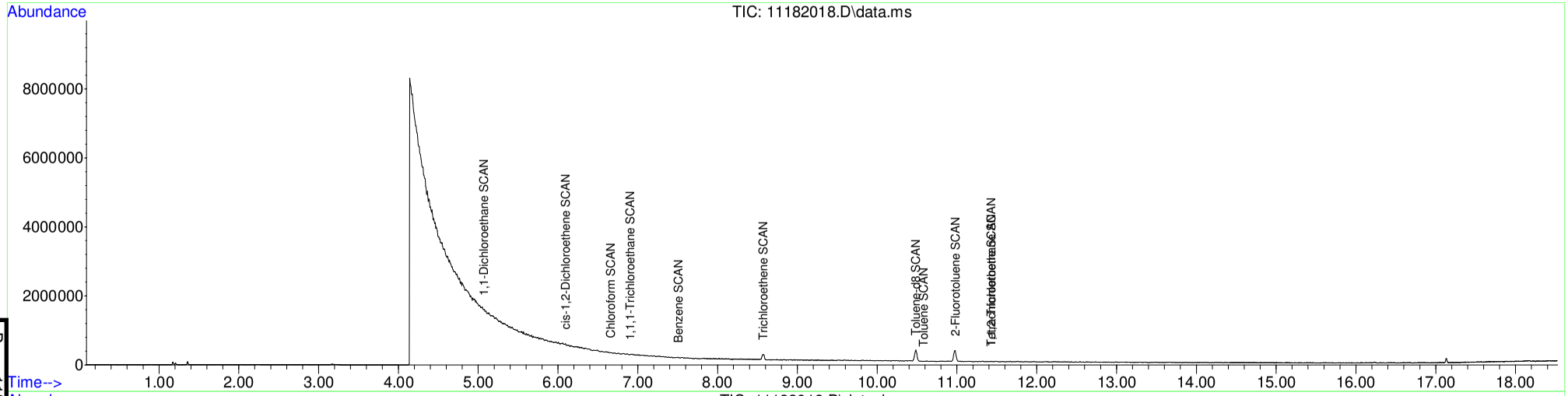
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	575048	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.477	98	479969	4263.67	ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 85.27%#				
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.093	61	1730	75.34	ug/L		67
3] trans-1,2-Dichloroethene	4.356	61	1527	57.56	ug/L		47
4] 1,1-Dichloroethane	5.072	63	1597	48.36	ug/L		65
5] cis-1,2-Dichloroethene	6.081	61	31063	891.07	ug/L		99
6] Chloroform	6.651	83	18867	528.77	ug/L		98
7] 1,1,1-Trichloroethane	6.907	97	1082	27.92	ug/L		98
9] Benzene	7.503	78	2943	30.12	ug/L	#	1
11] Trichloroethene	8.569	130	115476	3925.44	ug/L	RPT	94
13] Toluene	10.582	91	3878	27.02	ug/L		98
15] Tetrachloroethene	11.432	166	4814	115.90	ug/L		99
25) 2-Fluorotoluene SCAN	10.979	109	273988	4887.71	ug/L		100
28) 1,1-Dichloroethane SCAN	5.071	63	953	55.90	ug/L	#	66
29) cis-1,2-Dichloroethene...	6.093	61	18751	1026.55	ug/L		85
30) Chloroform SCAN	6.662	83	11217	566.17	ug/L	#	87
31) 1,1,1-Trichloroethane ...	6.906	97	936	51.84	ug/L	#	19
33) Benzene SCAN	7.502	78	11914	239.67	ug/L		92
35) Trichloroethene SCAN	8.568	130	55165	4038.22	ug/L		90
36) Toluene-d8 SCAN	10.486	98	246922	4504.10	ug/L		94
37) Toluene SCAN	10.580	91	2581	36.76	ug/L	#	59
38) 1,1,2-Trichloroethane ...	11.430	97	332	21.07	ug/L	#	13
39) Tetrachloroethene SCAN	11.430	166	2578	152.84	ug/L		86

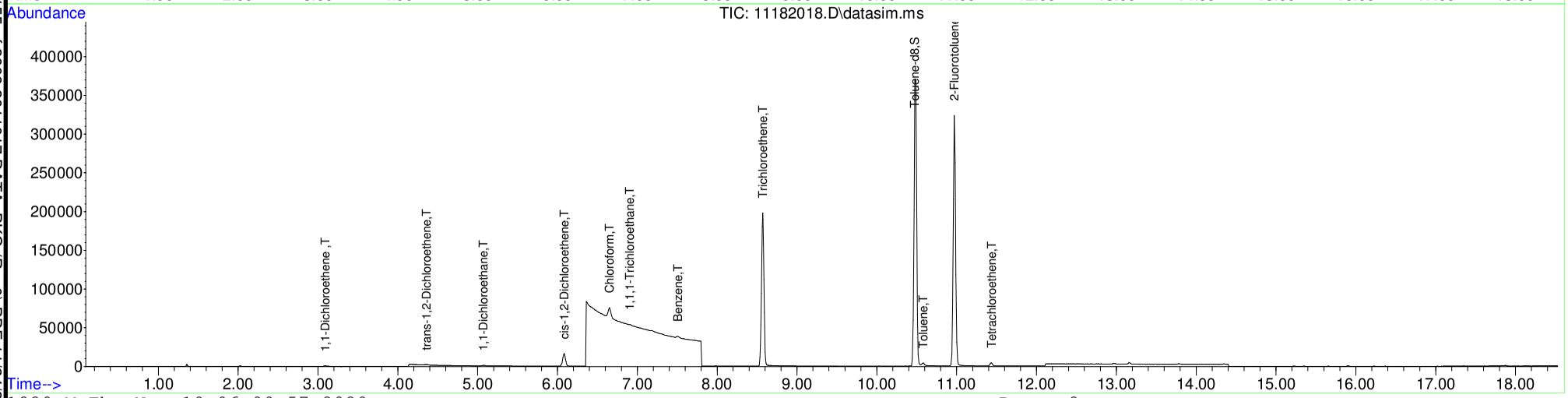
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182018.D
Acq On : 18 Nov 2020 16:20
InstName : AG5975C
Operator : TD
Sample : 2011017-18RE1
Misc : 10X DL (180-20)
ALS Vial : 18 Sample Multiplier: 10

Quant Time: Nov 19 06:09:56 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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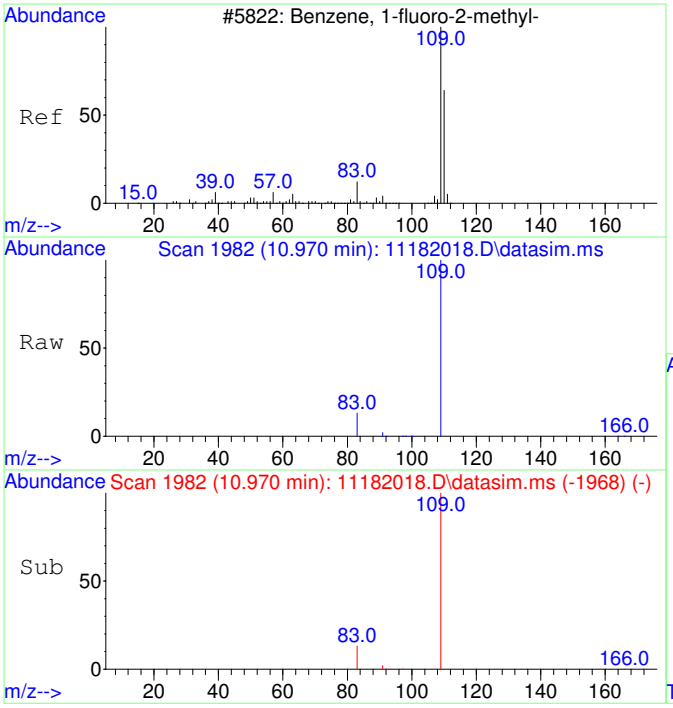
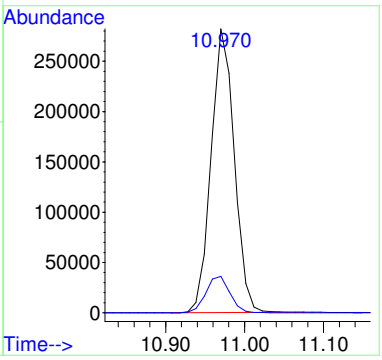
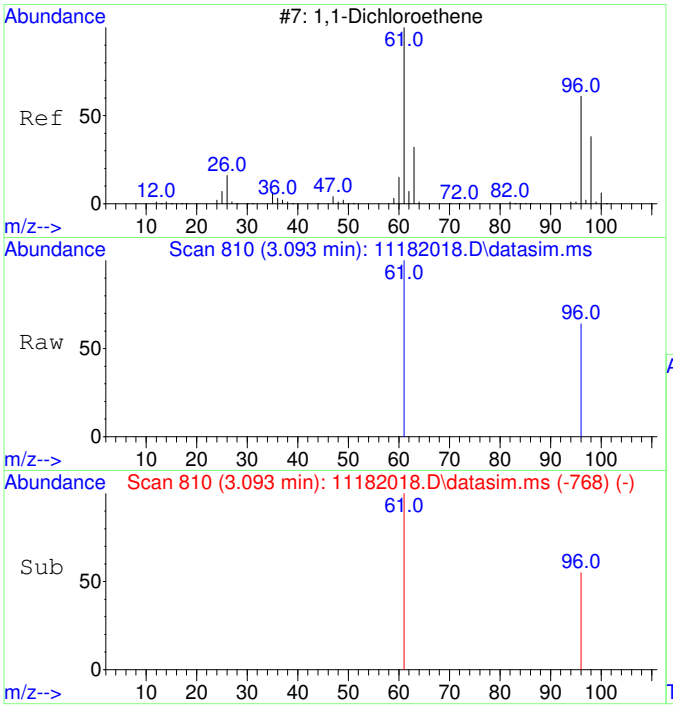


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion:109 Resp: 575048

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

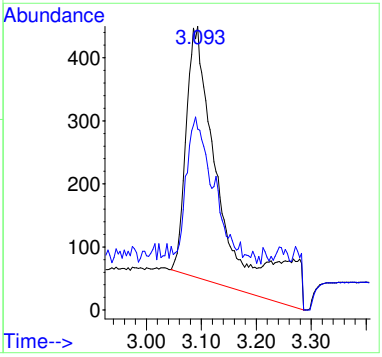


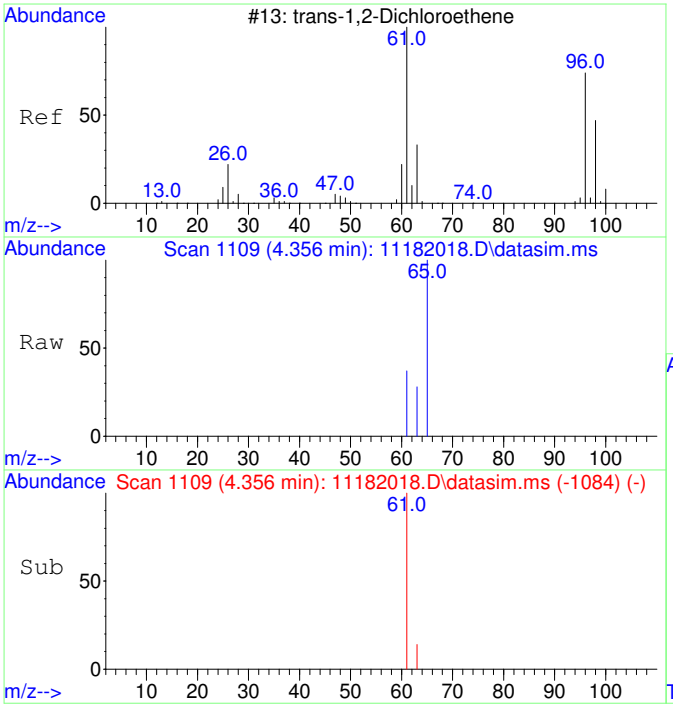


#2
1,1-Dichloroethene
Concen: 75.34 ug/L
RT: 3.093 min Scan# 810
Delta R.T. 0.007 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 61 Resp: 1730

Ion	Ratio	Lower	Upper
61	100		
96	40.6	37.2	97.2

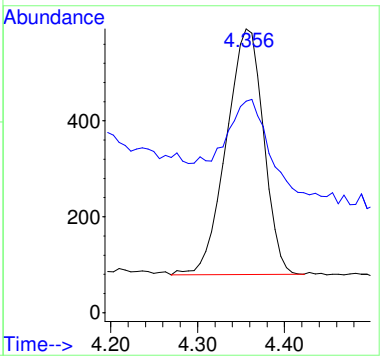


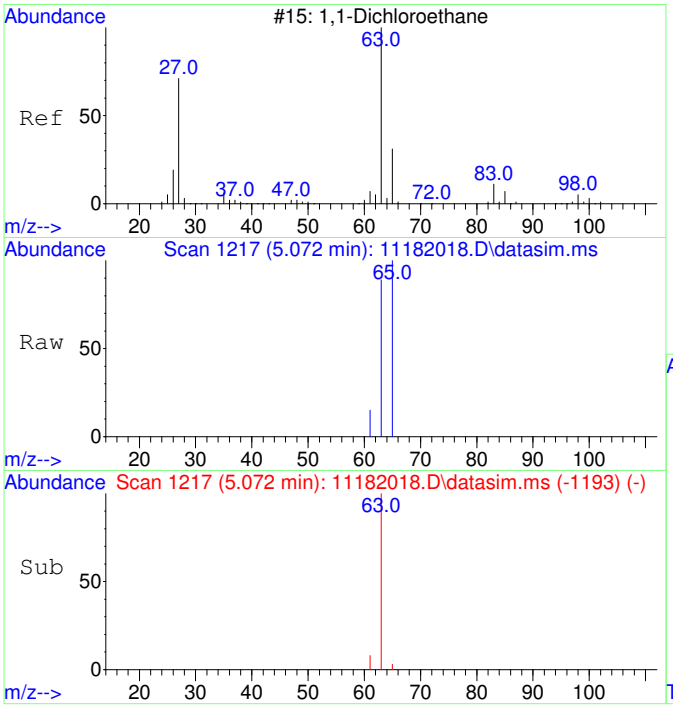


#3
trans-1,2-Dichloroethene
Concen: 57.56 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 61 Resp: 1527

Ion	Ratio	Lower	Upper
61	100		
63	62.0	2.4	62.4

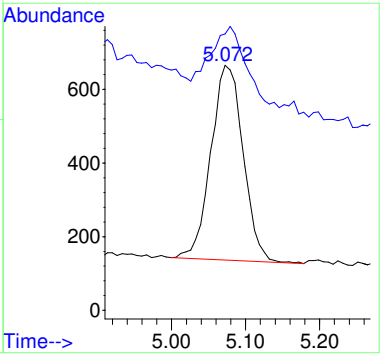


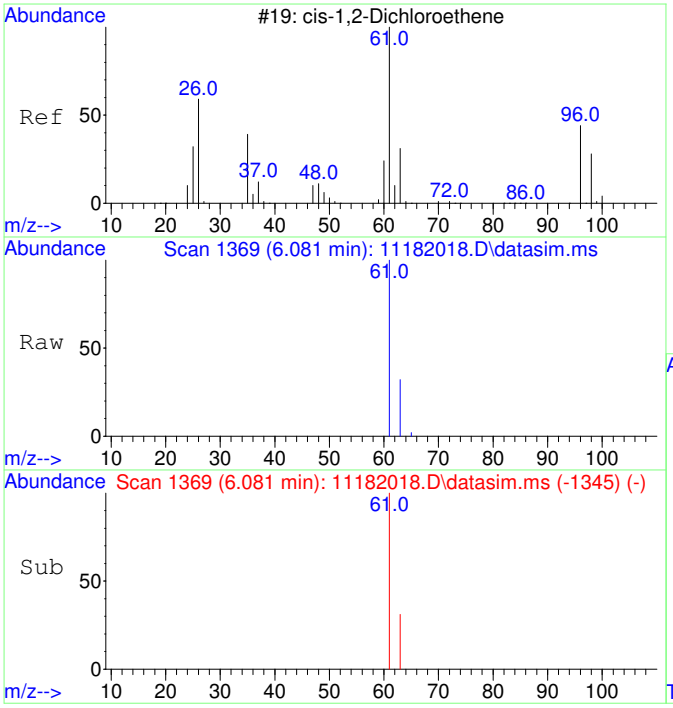


#4
1,1-Dichloroethane
Concen: 48.36 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.006 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 63 Resp: 1597

Ion	Ratio	Lower	Upper
63	100		
65	51.5	1.8	61.8

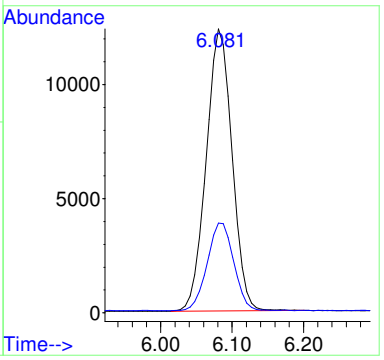


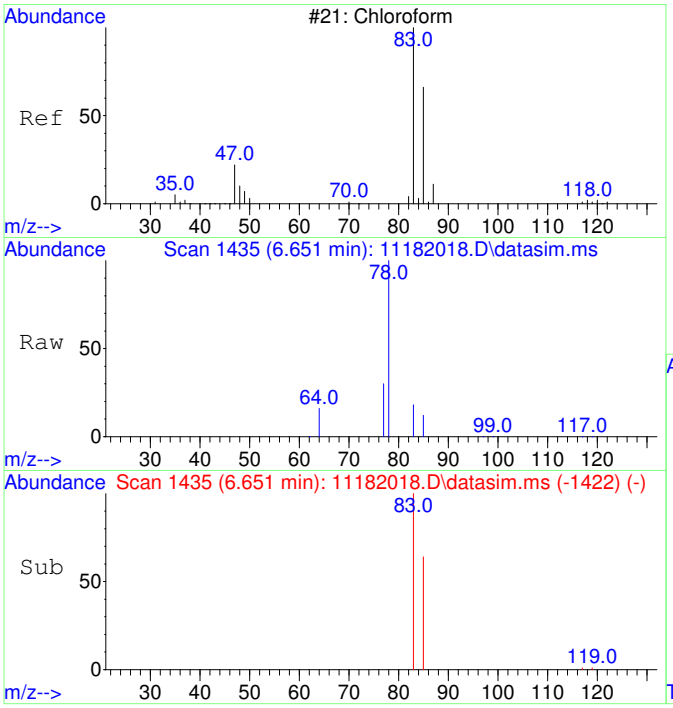


#5
cis-1,2-Dichloroethene
Concen: 891.07 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.006 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 61 Resp: 31063

Ion	Ratio	Lower	Upper
61	100		
63	31.7	2.5	62.5

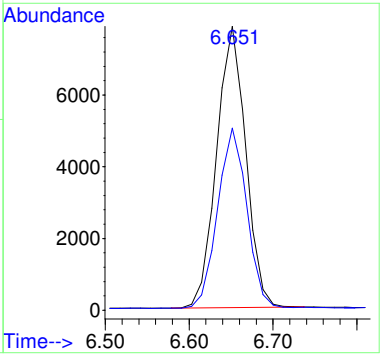


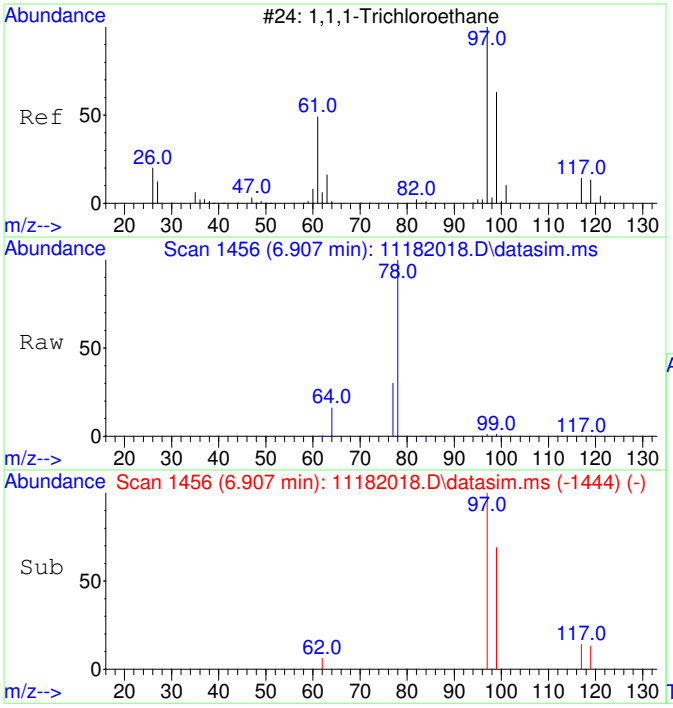


#6
Chloroform
Concen: 528.77 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 83 Resp: 18867

Ion	Ratio	Lower	Upper
83	100		
85	63.8	35.1	95.1

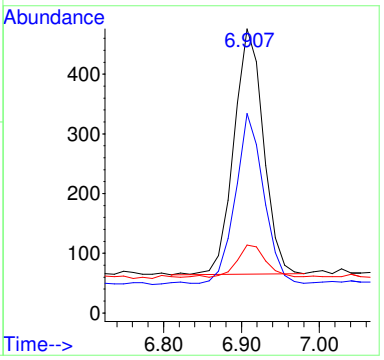


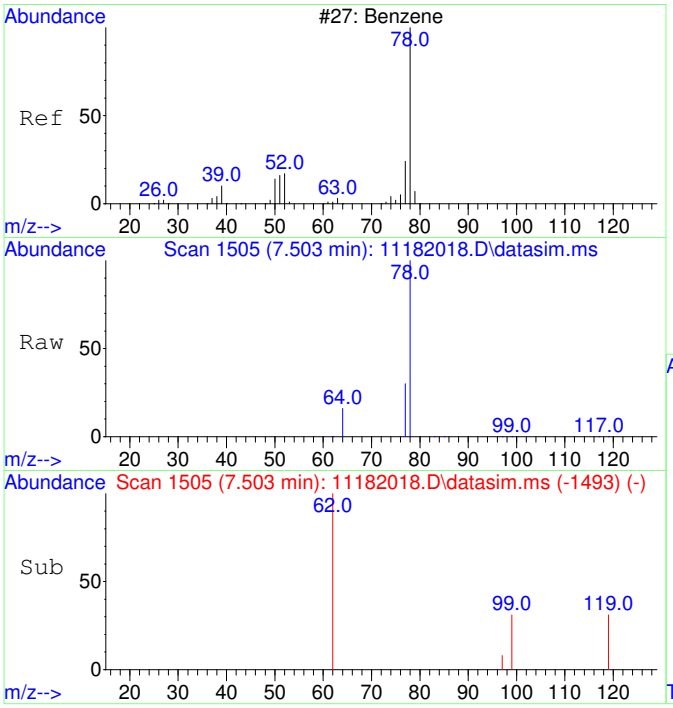


#7
1,1,1-Trichloroethane
Concen: 27.92 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 97 Resp: 1082

Ion	Ratio	Lower	Upper
97	100		
99	66.1	34.6	94.6
117	13.5	0.0	43.2

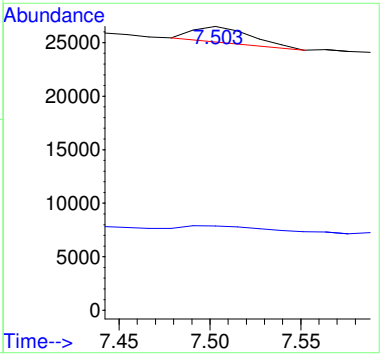


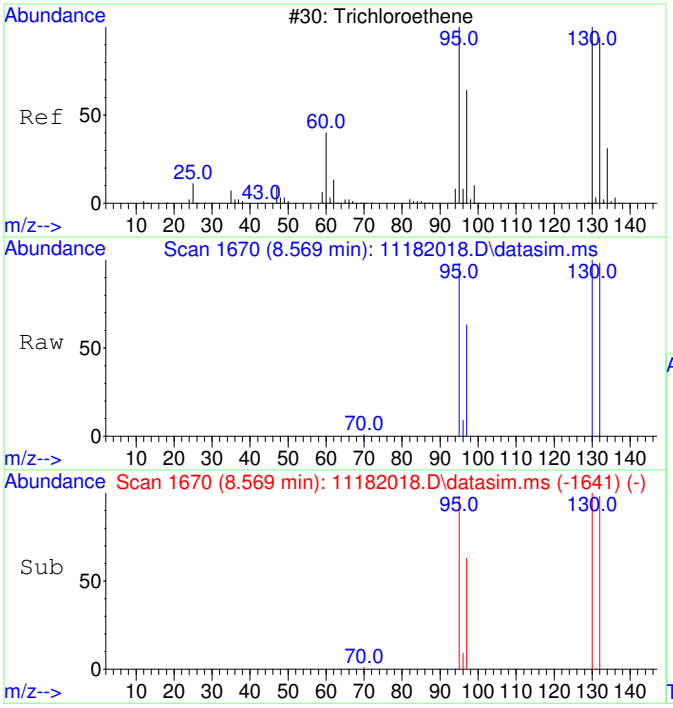


#9
Benzene
Concen: 30.12 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 78 Resp: 2943

Ion	Ratio	Lower	Upper
78	100		
77	105.2	0.0	53.2#

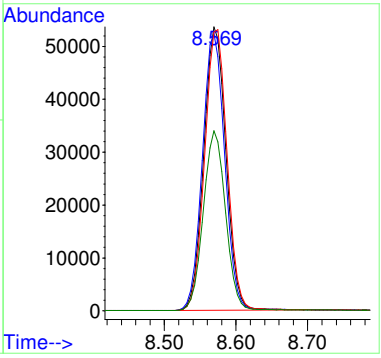


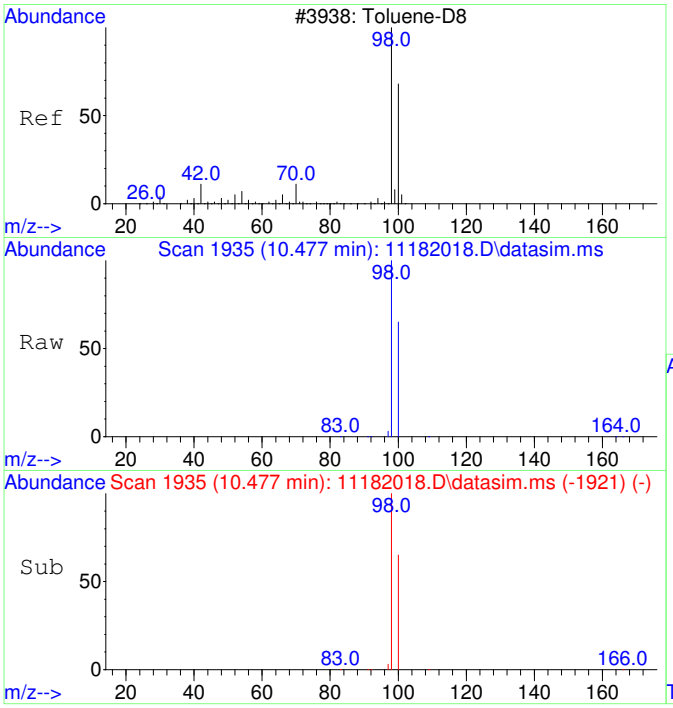


#11
Trichloroethene
Concen: 3925.44 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion:130 Resp: 115476

Ion	Ratio	Lower	Upper
130	100		
95	98.1	60.7	120.7
132	99.7	76.0	116.0
97	63.1	38.6	78.6

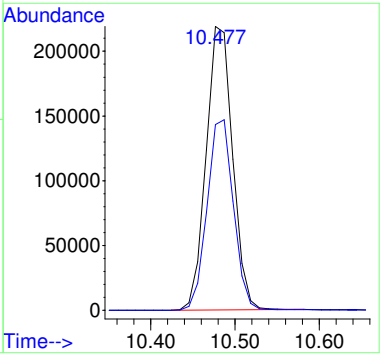


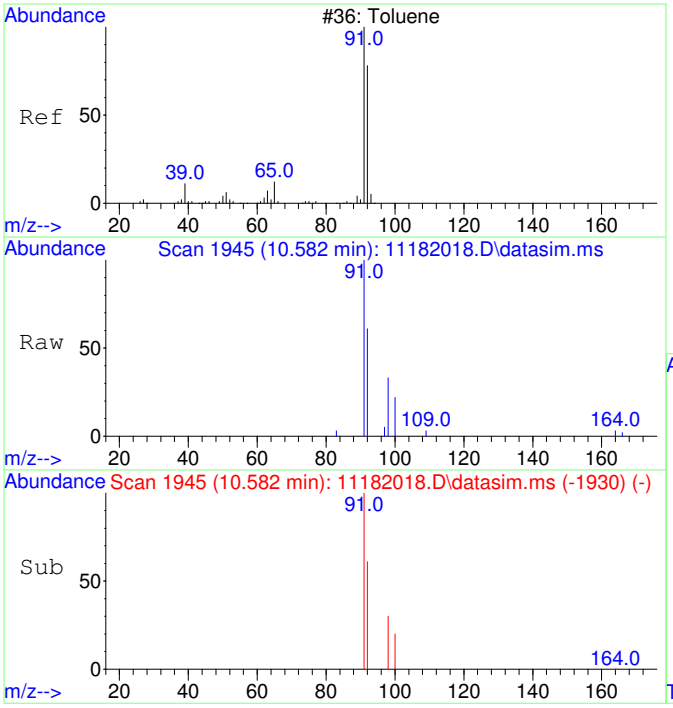


#12
Toluene-d8
Concen: 4263.67 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 98 Resp: 479969

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

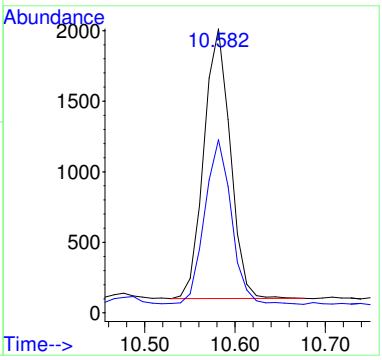


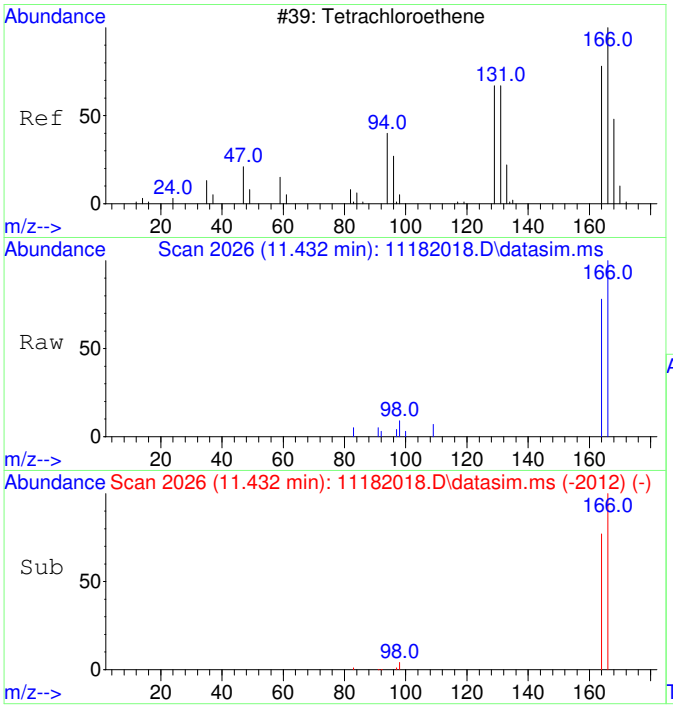


#13
Toluene
Concen: 27.02 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 91 Resp: 3878

Ion	Ratio	Lower	Upper
91	100		
92	61.7	29.9	89.9

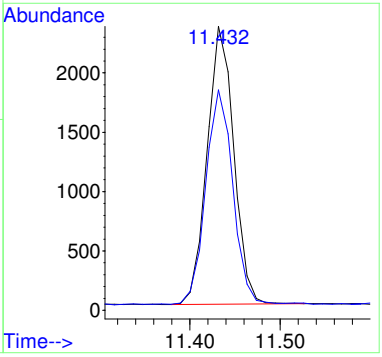


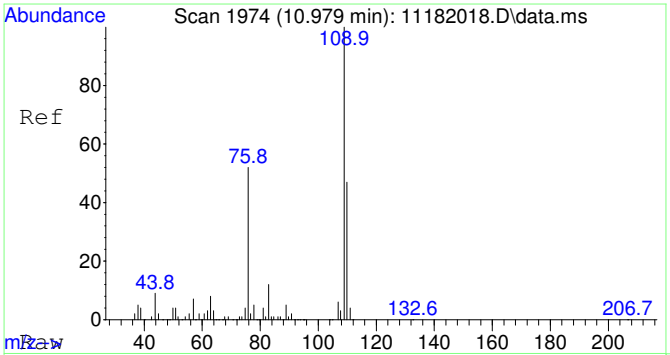


#15
Tetrachloroethene
Concen: 115.90 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion:166 Resp: 4814

Ion	Ratio	Lower	Upper
166	100		
164	78.4	47.8	107.8

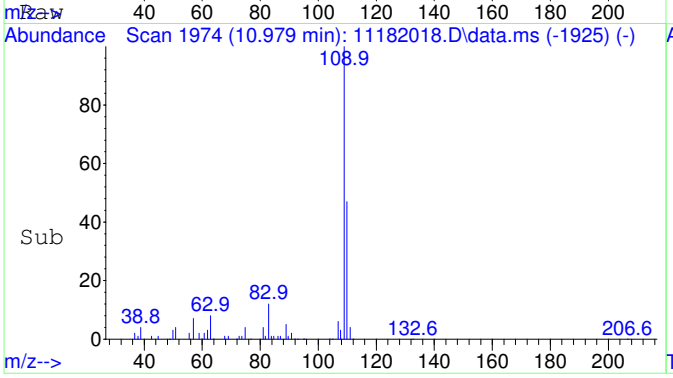


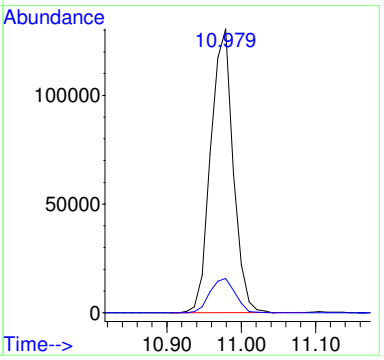


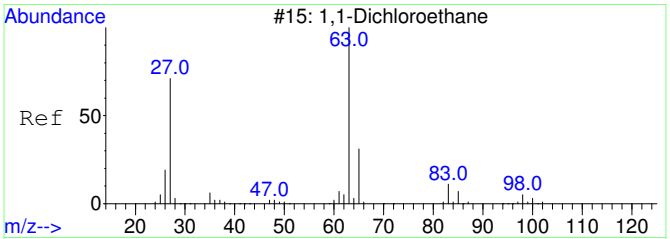
#25
2-Fluorotoluene SCAN
Concen: 4887.71 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion:109 Resp: 273988

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	43.8



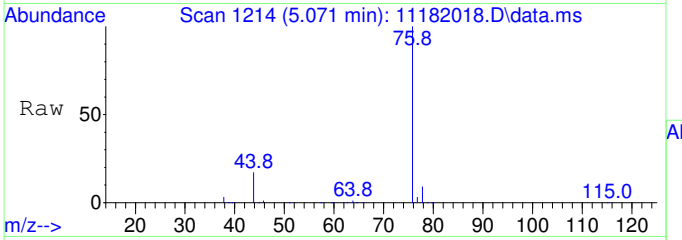


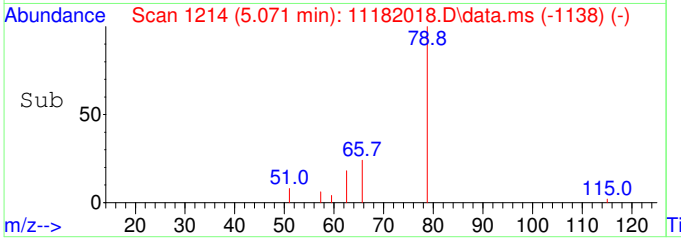


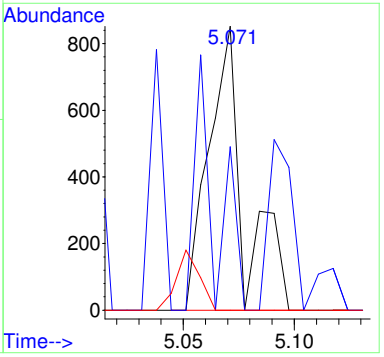
#28
1,1-Dichloroethane SCAN
Concen: 55.90 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.006 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

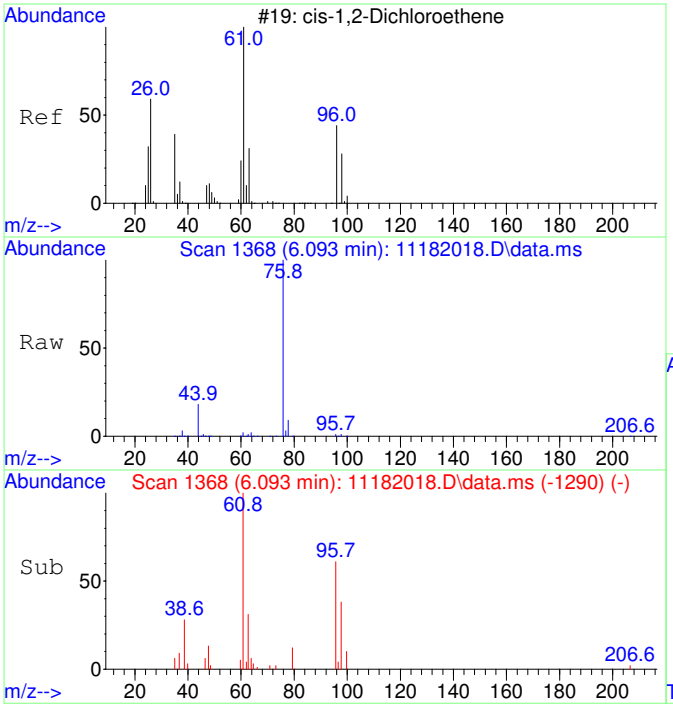
Tgt Ion: 63 Resp: 953

Ion	Ratio	Lower	Upper
63	100		
65	49.0	1.3	61.3
83	0.0	0.0	45.9





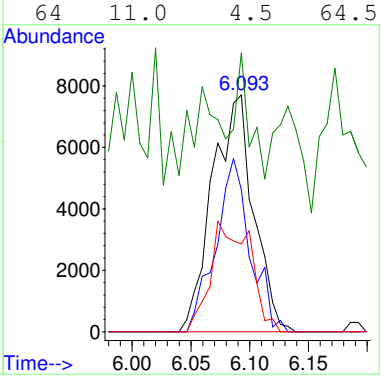


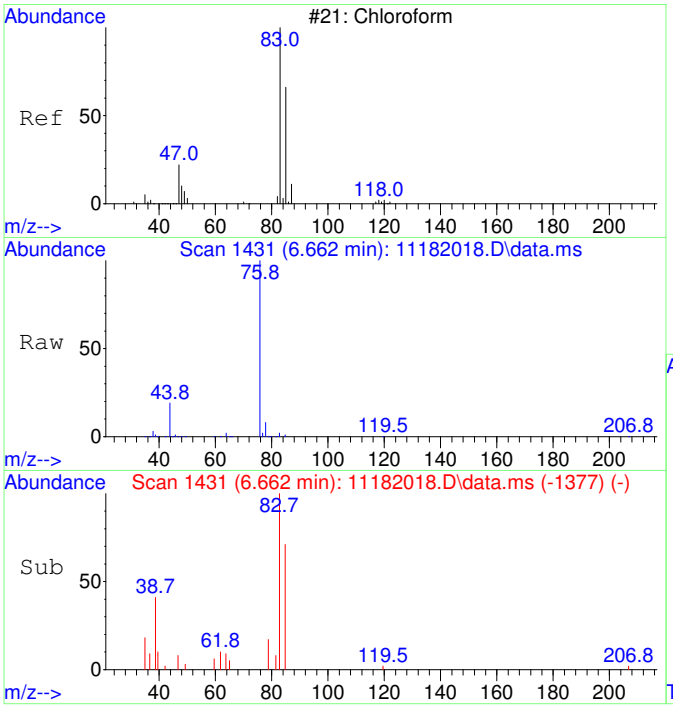


#29
cis-1,2-Dichloroethene SCAN
Concen: 1026.55 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 61 Resp: 18751

Ion	Ratio	Lower	Upper
61	100		
96	61.1	39.9	99.9
98	44.9	13.5	73.5
64	11.0	4.5	64.5

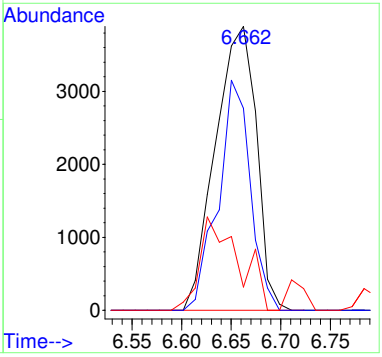


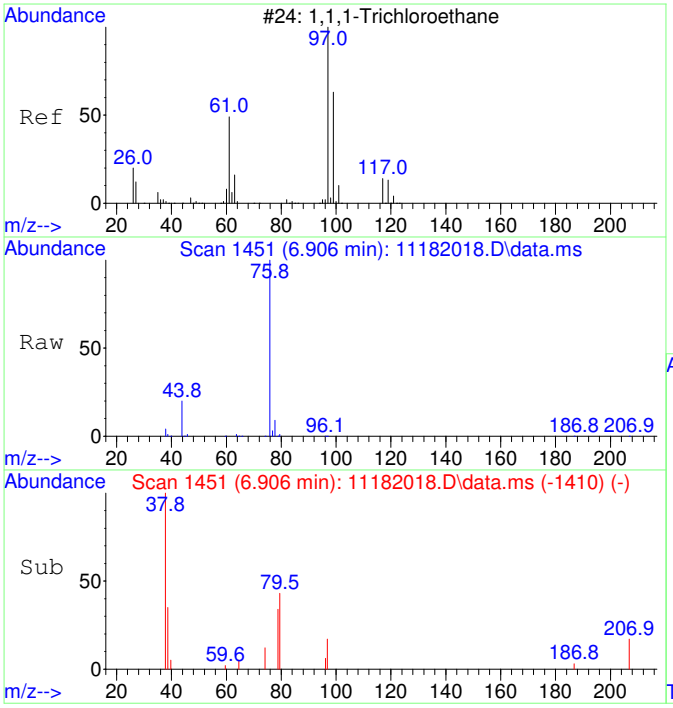


#30
Chloroform SCAN
Concen: 566.17 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 83 Resp: 11217

Ion	Ratio	Lower	Upper
83	100		
85	63.8	34.6	94.6
47	0.0	0.0	53.4

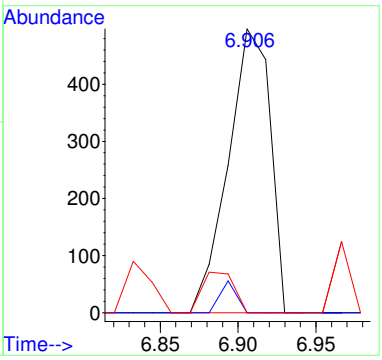


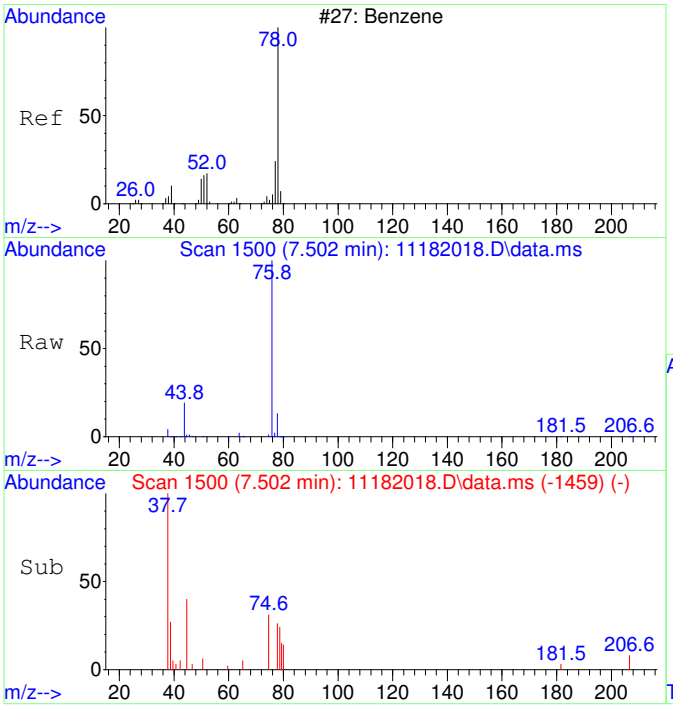


#31
1,1,1-Trichloroethane SCAN
Concen: 51.84 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 97 Resp: 936

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	0.0	18.0	78.0#

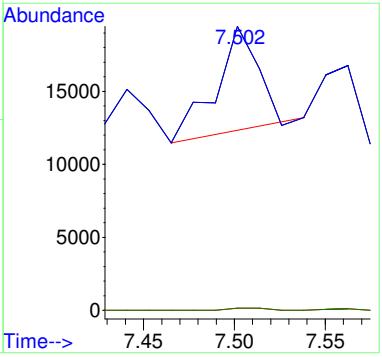


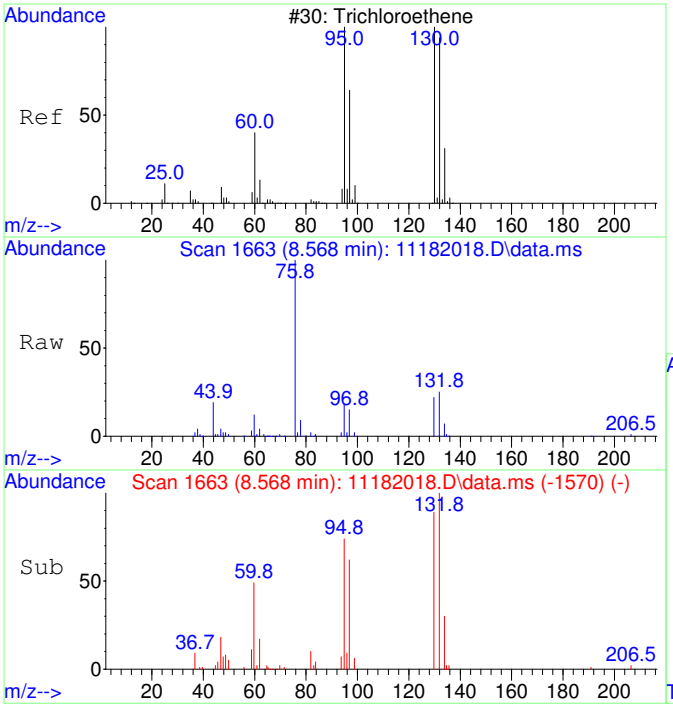


#33
Benzene SCAN
Concen: 239.67 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 78 Resp: 11914

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.8	0.0	47.9
51	1.8	0.0	44.1

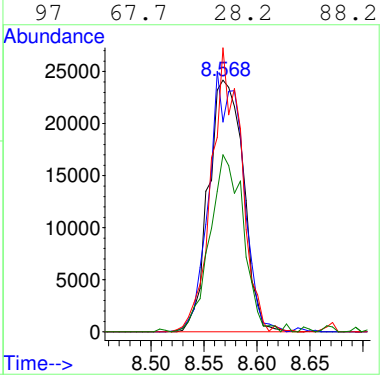


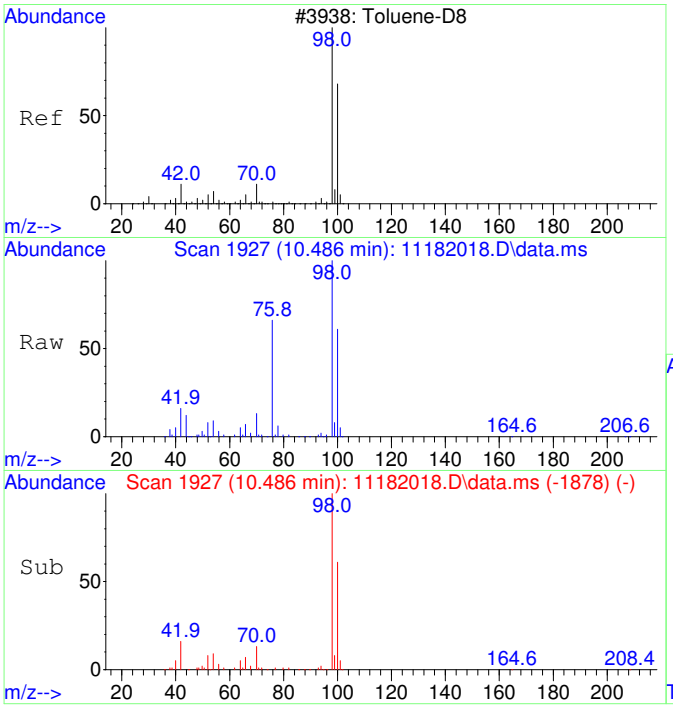


#35
Trichloroethene SCAN
Concen: 4038.22 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion:130 Resp: 55165

Ion	Ratio	Lower	Upper
130	100		
95	100.1	60.5	120.5
132	97.1	59.6	119.6
97	67.7	28.2	88.2

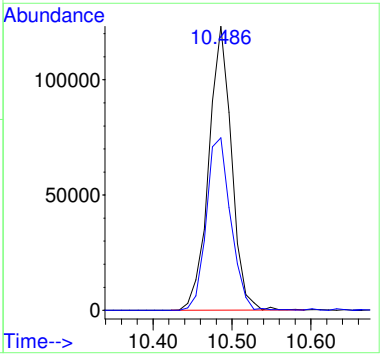


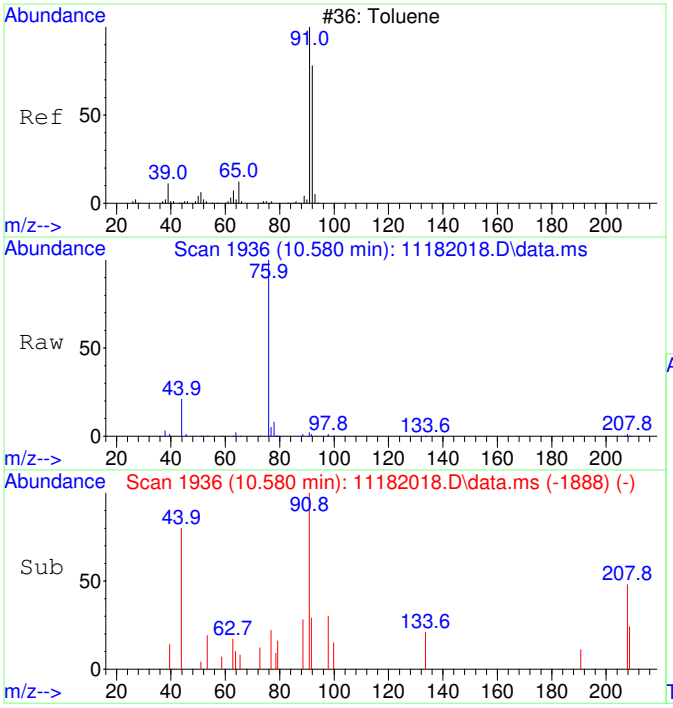


#36
Toluene-d8 SCAN
Concen: 4504.10 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 98 Resp: 246922

Ion	Ratio	Lower	Upper
98	100		
100	65.1	40.0	100.0

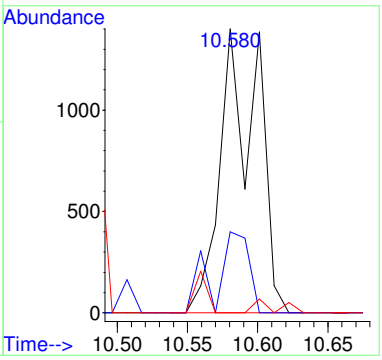


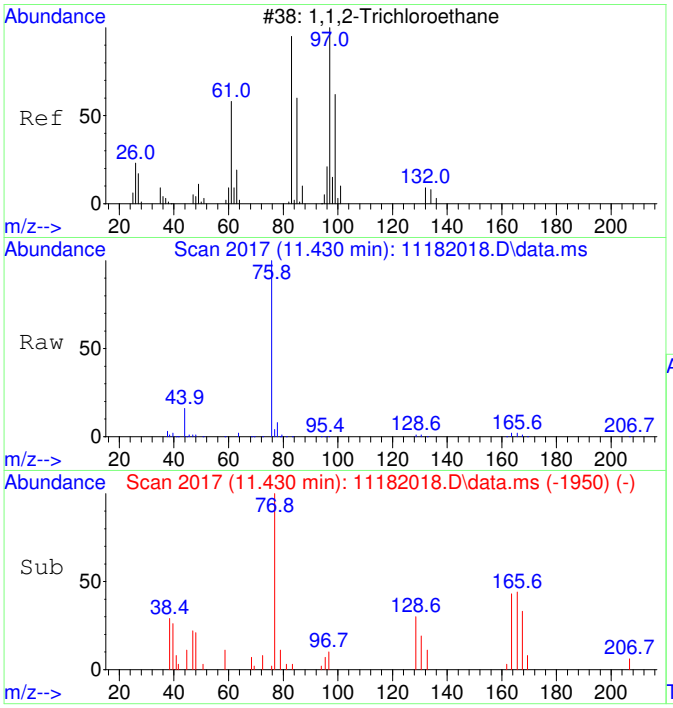


#37
Toluene SCAN
Concen: 36.76 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 91 Resp: 2581

Ion	Ratio	Lower	Upper
91	100		
92	26.2	28.3	88.3#
65	0.0	0.0	41.0

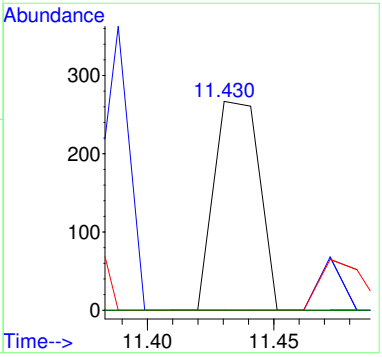


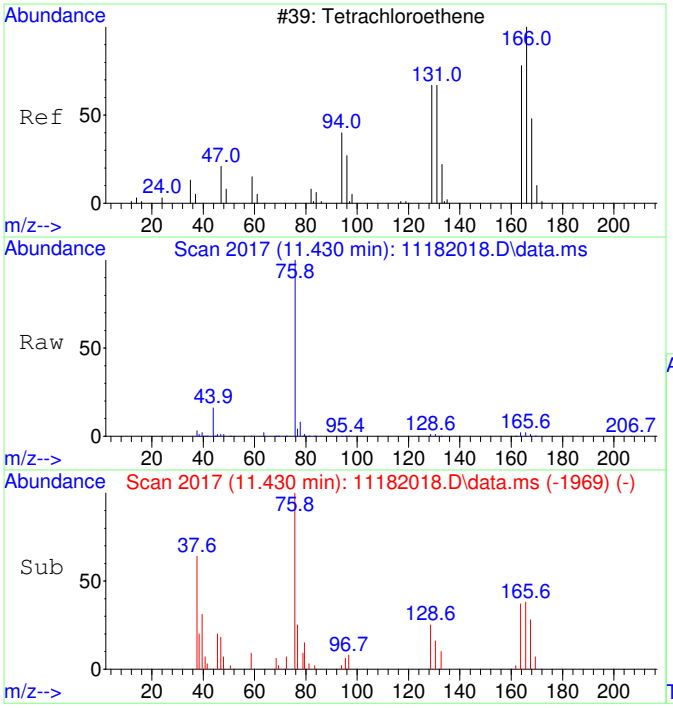


#38
1,1,2-Trichloroethane SCAN
Concen: 21.07 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.199 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion: 97 Resp: 332

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

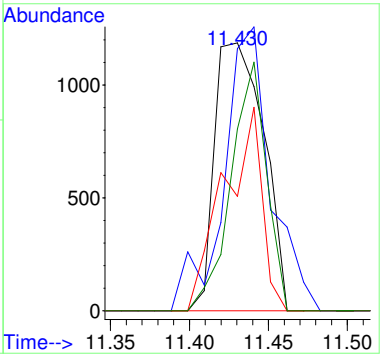




#39
Tetrachloroethene SCAN
Concen: 152.84 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11182018.D
Acq: 18 Nov 2020 16:20

Tgt Ion:166 Resp: 2578

Ion	Ratio	Lower	Upper
166	100		
164	100.9	50.9	110.9
131	59.0	38.7	98.7
129	66.6	41.8	101.8



2011017-01RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182019.D
Acq On : 18 Nov 2020 16:43
InstName : AG5975C
Operator : TD
Sample : 2011017-01RE1
Misc : 20X DL (190-10)
ALS Vial : 19 Sample Multiplier: 20

Quant Time: Nov 19 06:10:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

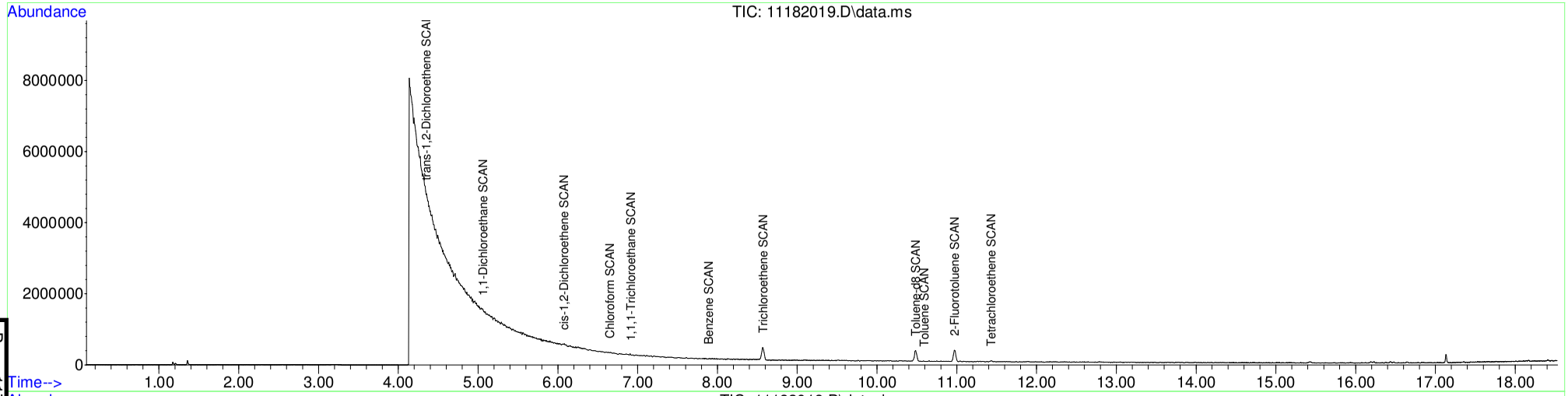
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	551198	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.477	98	459832	4261.53	ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 85.23%#				
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.086	61	1691	76.83	ug/L		66
3] trans-1,2-Dichloroethene	4.343	61	2544	100.04	ug/L		78
4] 1,1-Dichloroethane	5.066	63	1353	42.74	ug/L	#	45
5] cis-1,2-Dichloroethene	6.074	61	49345	1476.76	ug/L		99
6] Chloroform	6.652	83	18725	547.50	ug/L		100
7] 1,1,1-Trichloroethane	6.907	97	1868	50.29	ug/L		99
11] Trichloroethene	8.569	130	269638	9562.56	ug/L	RPT	94
13] Toluene	10.582	91	4660	33.87	ug/L		100
15] Tetrachloroethene	11.432	166	17622	442.64	ug/L		100
25) 2-Fluorotoluene SCAN	10.969	109	261514	4867.04	ug/L		93
27) trans-1,2-Dichloroethe...	4.348	61	1175	83.21	ug/L		68
28) 1,1-Dichloroethane SCAN	5.064	63	378	23.13	ug/L	#	1
29) cis-1,2-Dichloroethene...	6.073	61	29735	1698.32	ug/L	#	79
30) Chloroform SCAN	6.650	83	11510	606.10	ug/L		87
31) 1,1,1-Trichloroethane ...	6.918	97	1382	79.86	ug/L		82
33) Benzene SCAN	7.887	78	1463	30.70	ug/L		96
35) Trichloroethene SCAN	8.568	130	126003	9622.84	ug/L		87
36) Toluene-d8 SCAN	10.486	98	234745	4467.26	ug/L		93
37) Toluene SCAN	10.591	91	2924	43.45	ug/L		67
39) Tetrachloroethene SCAN	11.430	166	8276	511.89	ug/L		86

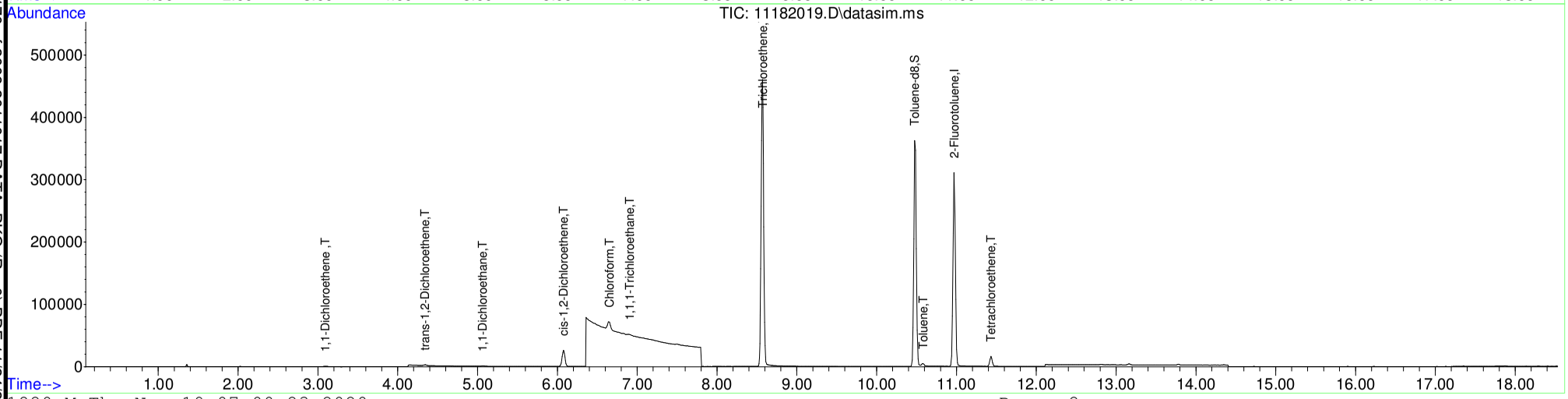
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182019.D
Acq On : 18 Nov 2020 16:43
InstName : AG5975C
Operator : TD
Sample : 2011017-01RE1
Misc : 20X DL (190-10)
ALS Vial : 19 Sample Multiplier: 20

Quant Time: Nov 19 06:10:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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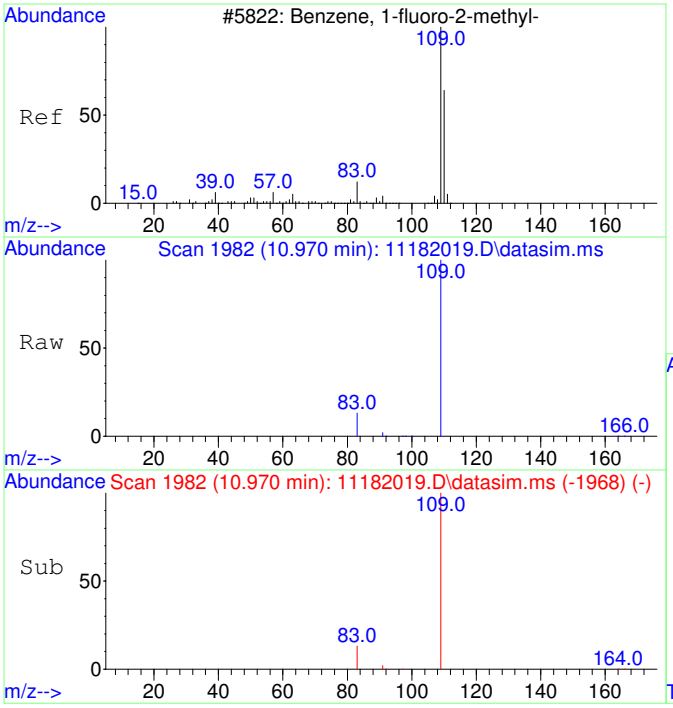
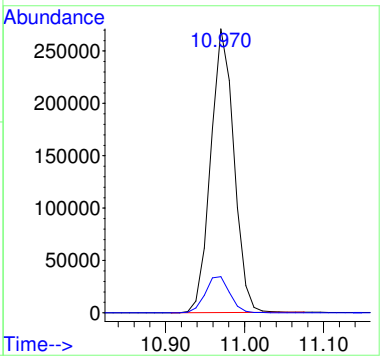
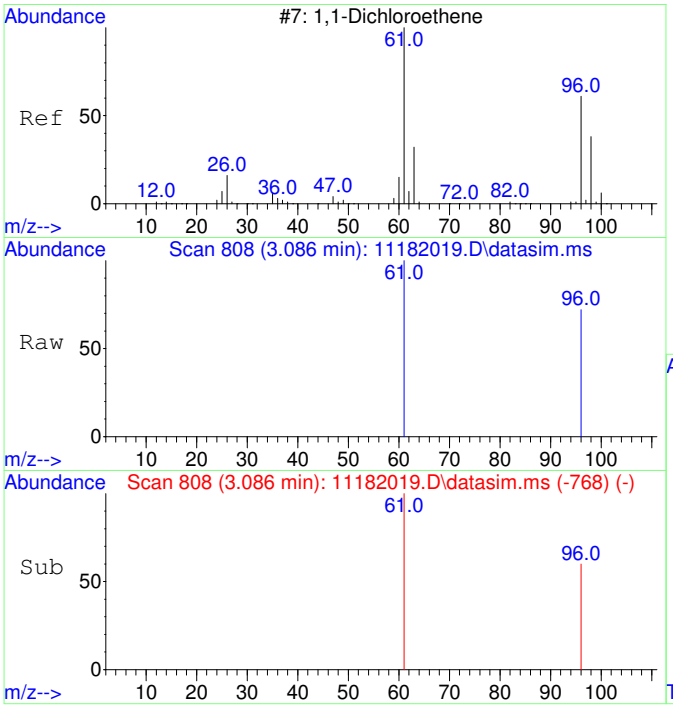


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion:109 Resp: 551198

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

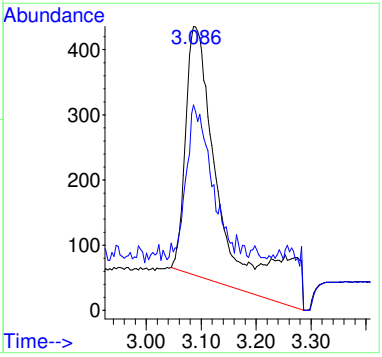


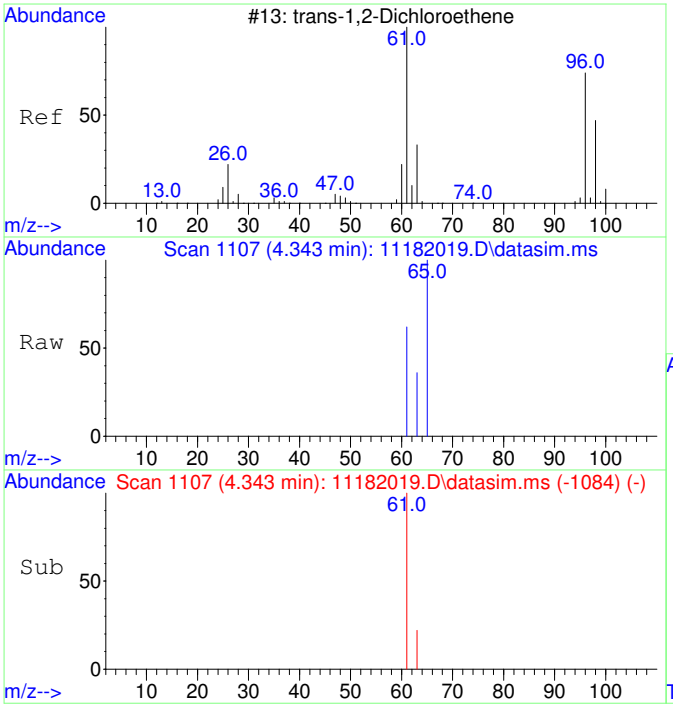


#2
1,1-Dichloroethene
Concen: 76.83 ug/L
RT: 3.086 min Scan# 808
Delta R.T. 0.000 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 61 Resp: 1691

Ion	Ratio	Lower	Upper
61	100		
96	39.8	37.2	97.2

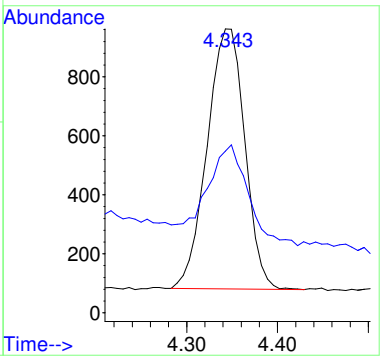


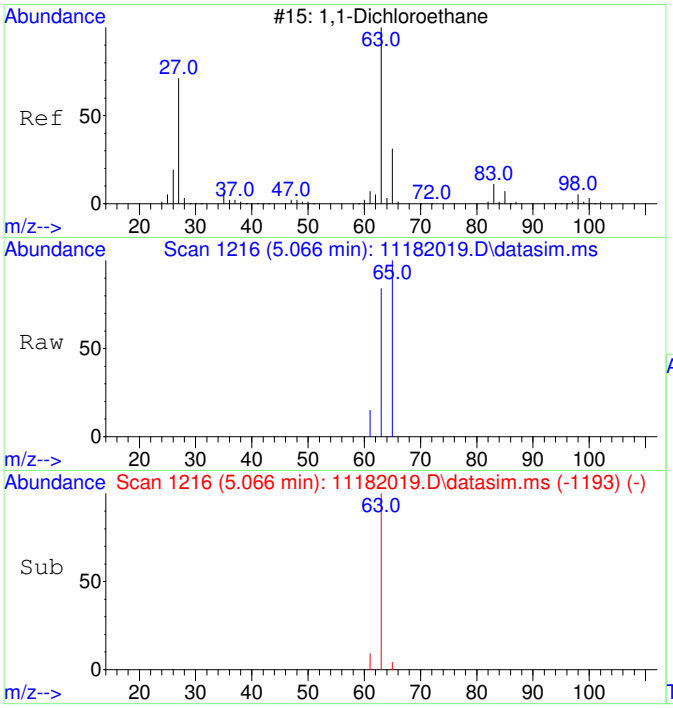


#3
trans-1,2-Dichloroethene
Concen: 100.04 ug/L
RT: 4.343 min Scan# 1107
Delta R.T. -0.000 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 61 Resp: 2544

Ion	Ratio	Lower	Upper
61	100		
63	44.5	2.4	62.4

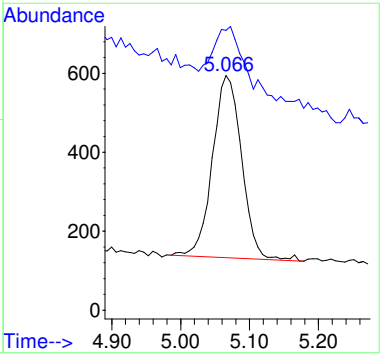


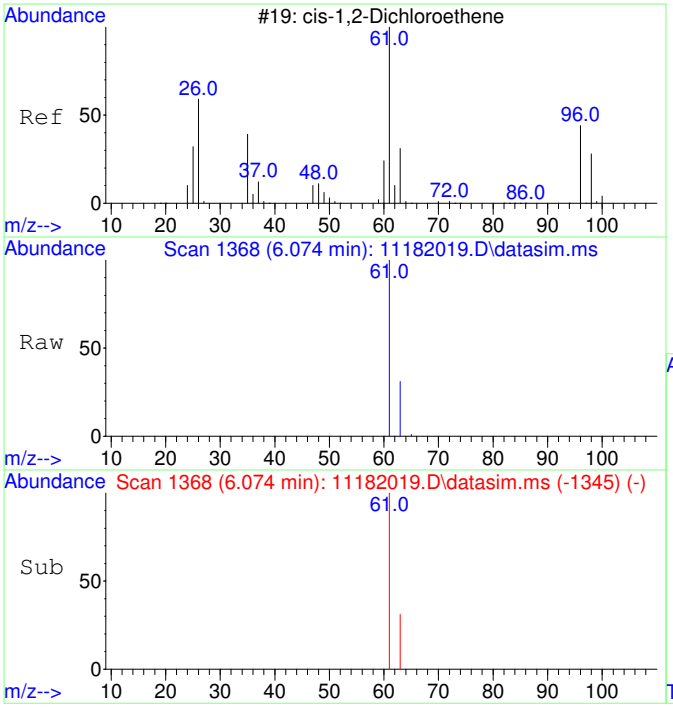


#4
1,1-Dichloroethane
Concen: 42.74 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 63 Resp: 1353

Ion	Ratio	Lower	Upper
63	100		
65	62.2	1.8	61.8#

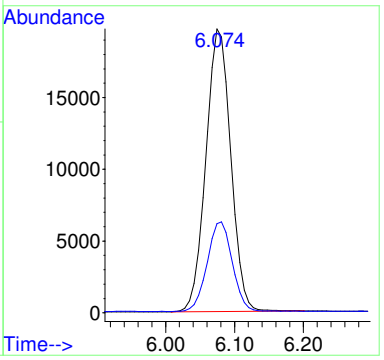


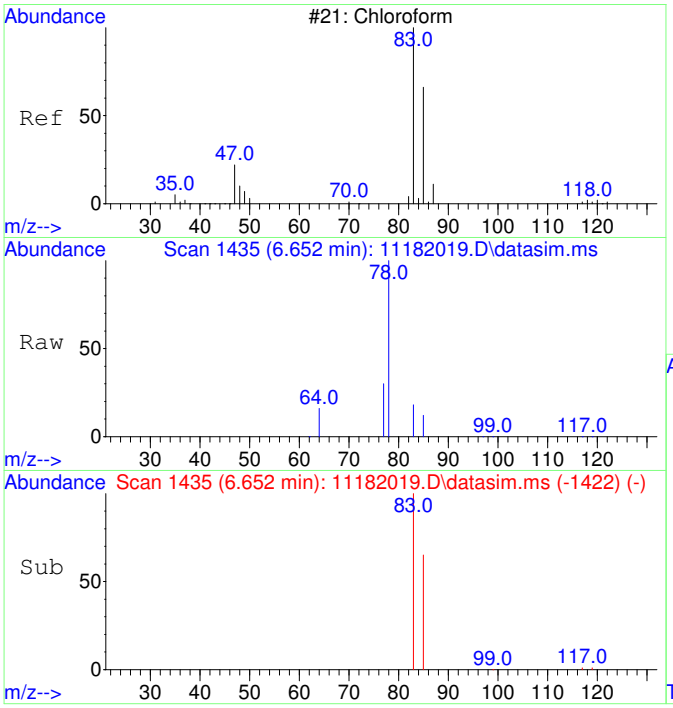


#5
cis-1,2-Dichloroethene
Concen: 1476.76 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 61 Resp: 49345

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

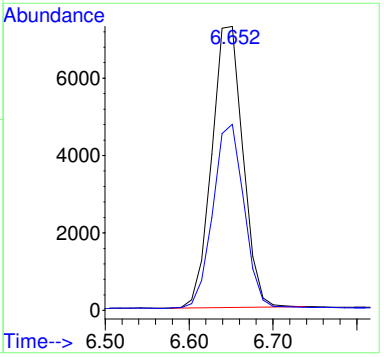


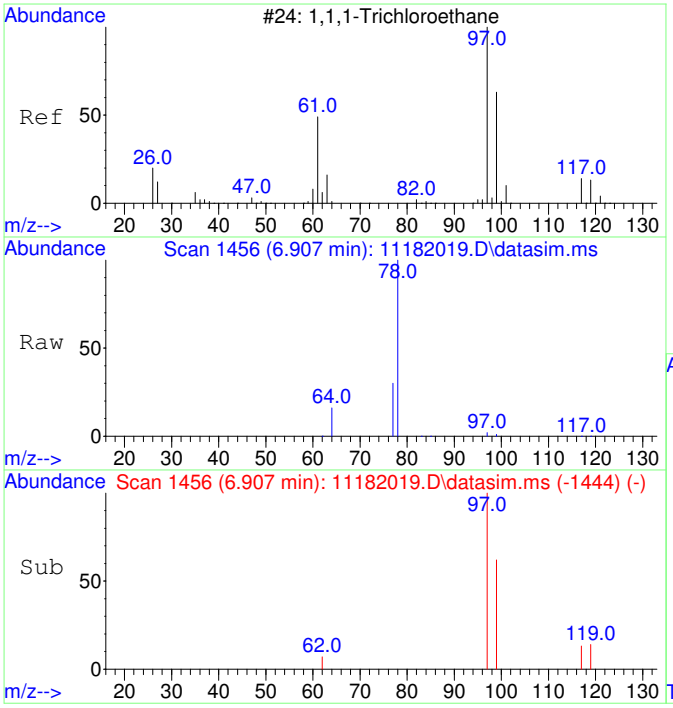


#6
Chloroform
Concen: 547.50 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 83 Resp: 18725

Ion	Ratio	Lower	Upper
83	100		
85	65.0	35.1	95.1

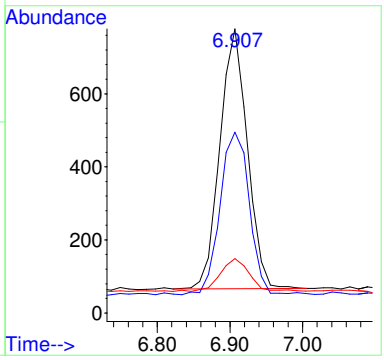


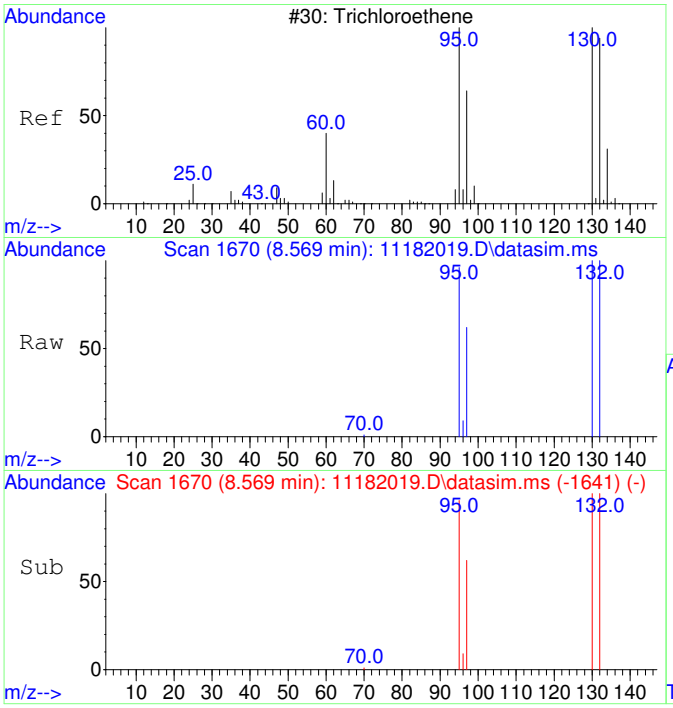


#7
1,1,1-Trichloroethane
Concen: 50.29 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 97 Resp: 1868

Ion	Ratio	Lower	Upper
97	100		
99	65.8	34.6	94.6
117	13.4	0.0	43.2

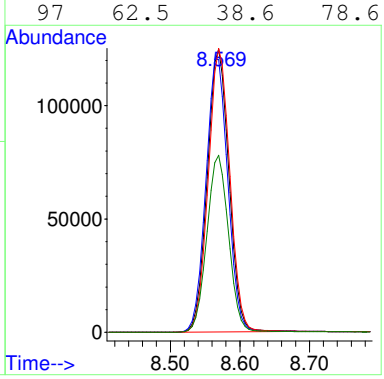


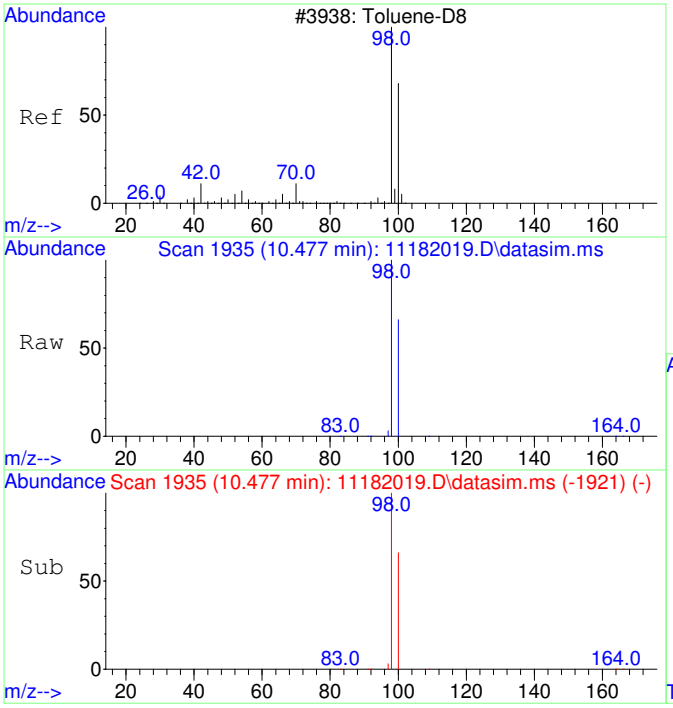


#11
Trichloroethene
Concen: 9562.56 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion:130 Resp: 269638

Ion	Ratio	Lower	Upper
130	100		
95	97.8	60.7	120.7
132	99.7	76.0	116.0
97	62.5	38.6	78.6

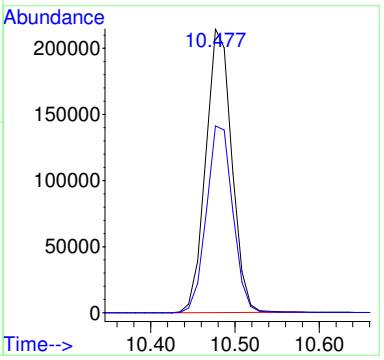


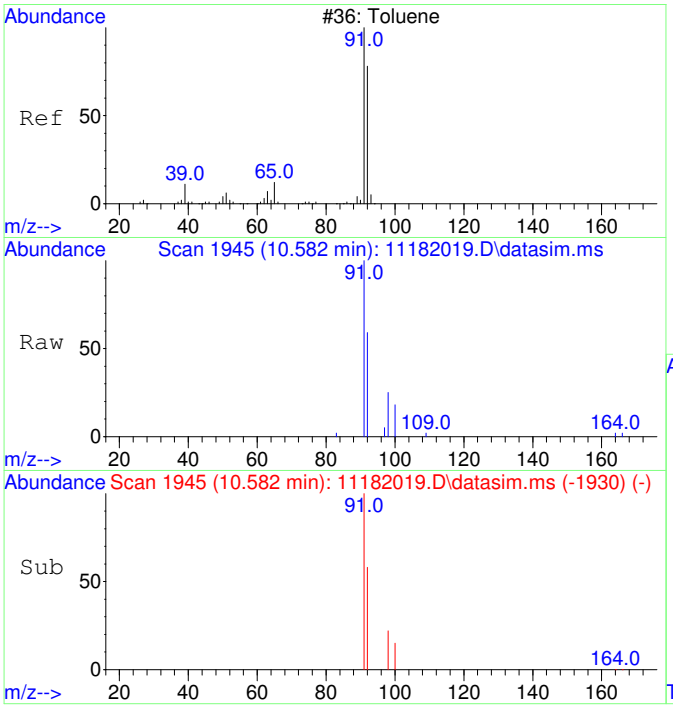


#12
Toluene-d8
Concen: 4261.53 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 98 Resp: 459832

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.1	97.1

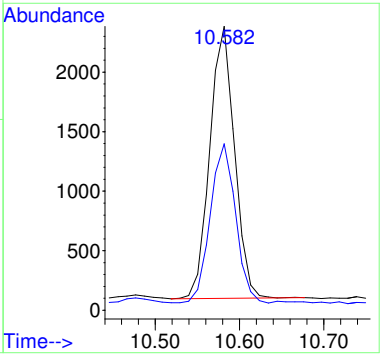


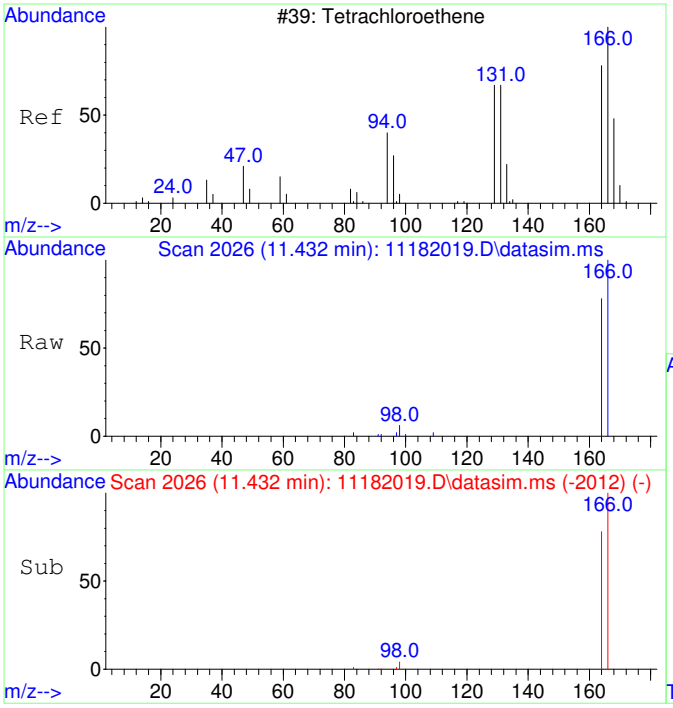


#13
Toluene
Concen: 33.87 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 91 Resp: 4660

Ion	Ratio	Lower	Upper
91	100		
92	59.7	29.9	89.9

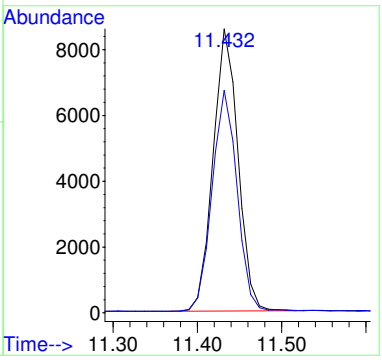


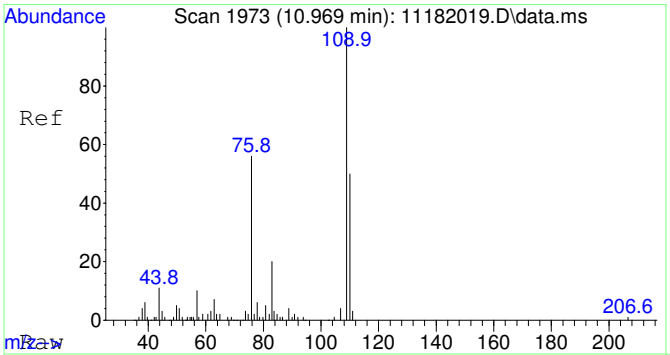


#15
Tetrachloroethene
Concen: 442.64 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion:166 Resp: 17622

Ion	Ratio	Lower	Upper
166	100		
164	78.2	47.8	107.8

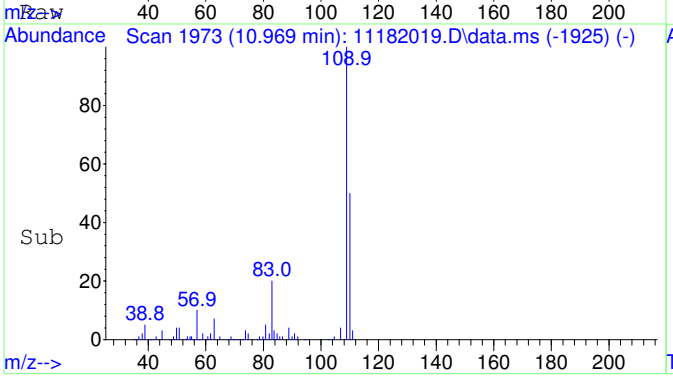


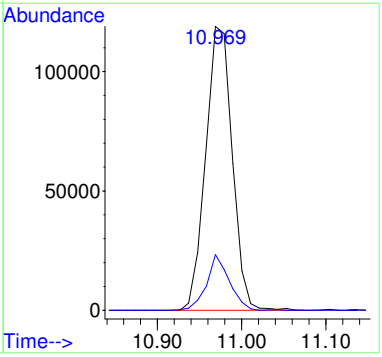


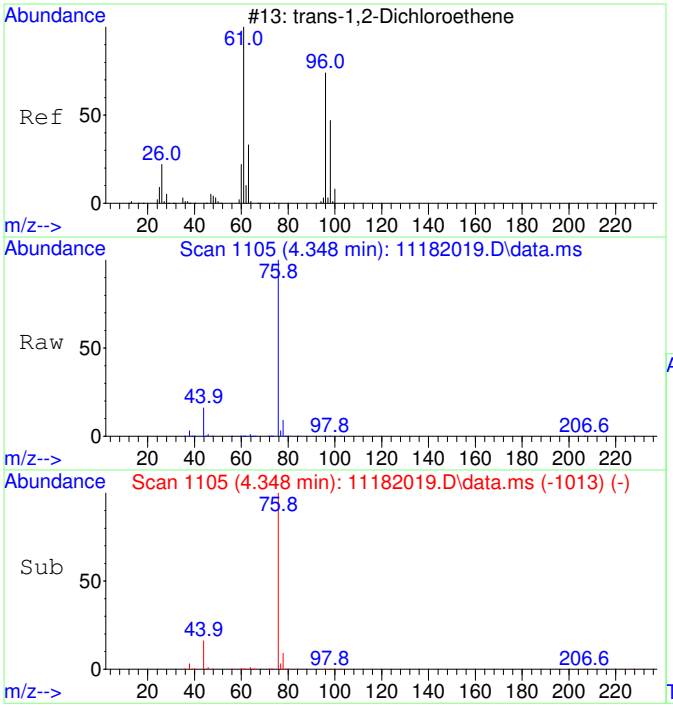
#25
2-Fluorotoluene SCAN
Concen: 4867.04 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion:109 Resp: 261514

Ion	Ratio	Lower	Upper
109	100		
83	16.8	0.0	43.8



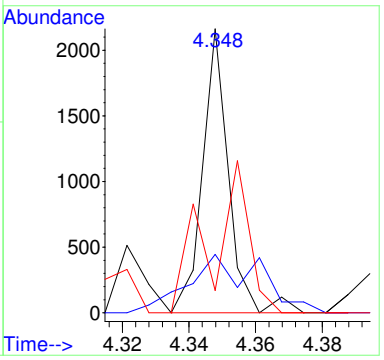


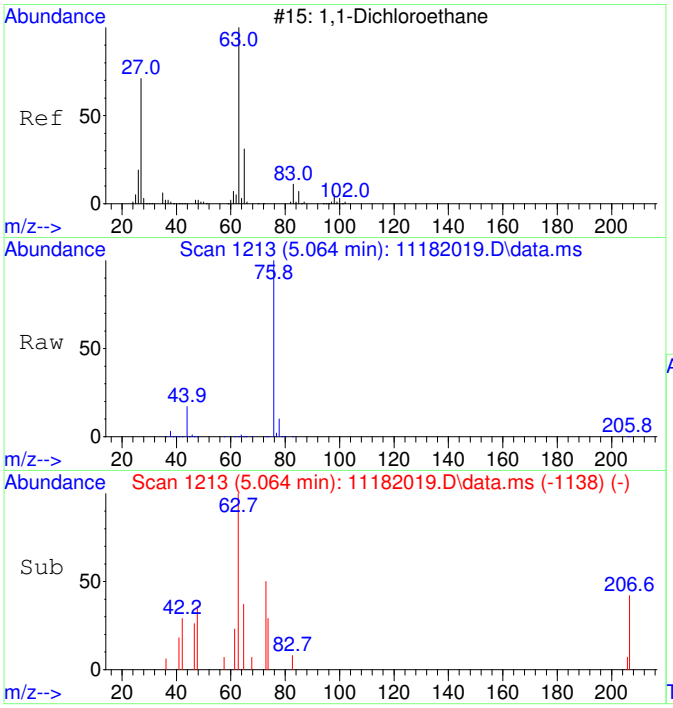


#27
trans-1,2-Dichloroethene SCAN
Concen: 83.21 ug/L
RT: 4.348 min Scan# 1105
Delta R.T. -0.000 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 61 Resp: 1175

Ion	Ratio	Lower	Upper
61	100		
96	56.3	49.0	109.0
98	78.8	20.5	80.5

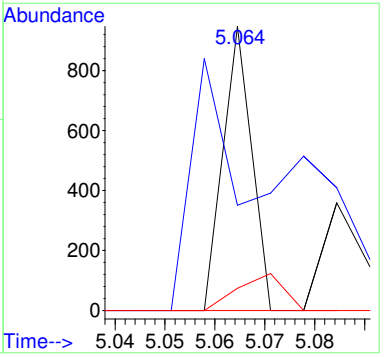


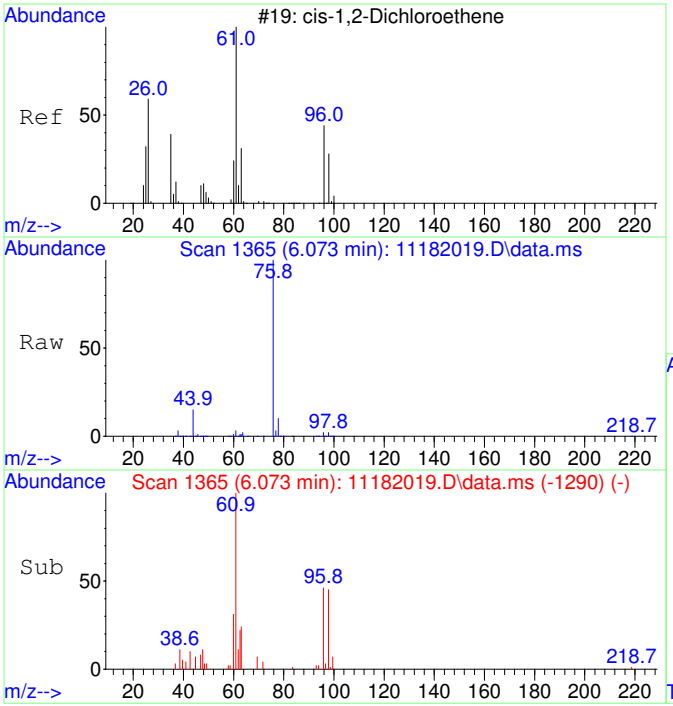


#28
1,1-Dichloroethane SCAN
Concen: 23.13 ug/L
RT: 5.064 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 63 Resp: 378

Ion	Ratio	Lower	Upper
63	100		
65	337.0	1.3	61.3#
83	20.6	0.0	45.9

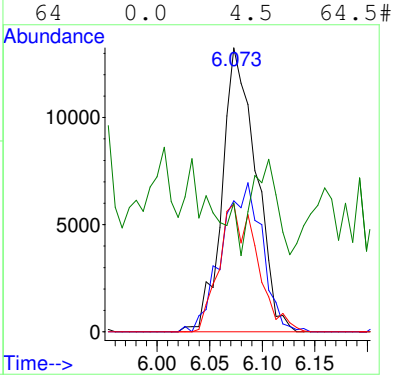


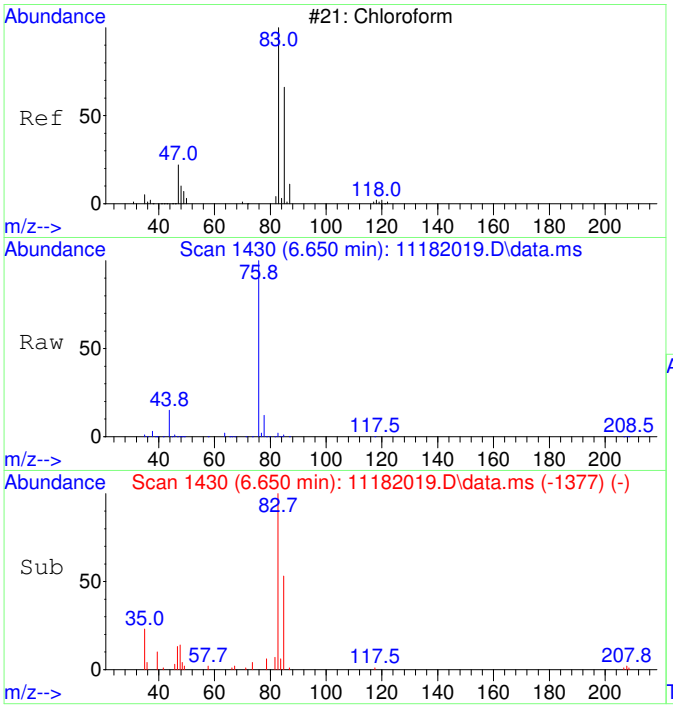


#29
cis-1,2-Dichloroethene SCAN
Concen: 1698.32 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 61 Resp: 29735

Ion	Ratio	Lower	Upper
61	100		
96	62.6	39.9	99.9
98	50.6	13.5	73.5
64	0.0	4.5	64.5#

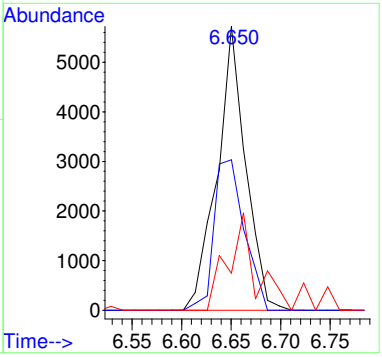


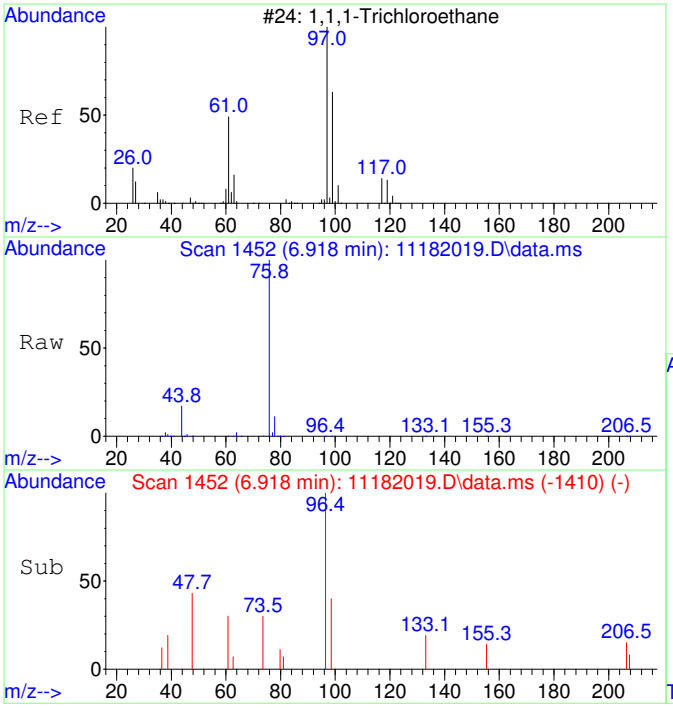


#30
Chloroform SCAN
Concen: 606.10 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 83 Resp: 11510

Ion	Ratio	Lower	Upper
83	100		
85	56.4	34.6	94.6
47	33.3	0.0	53.4

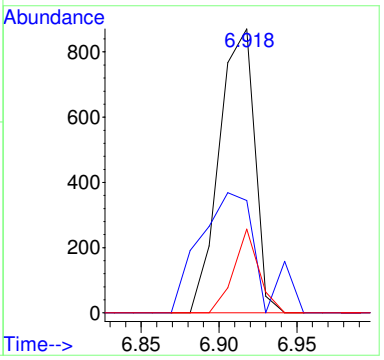


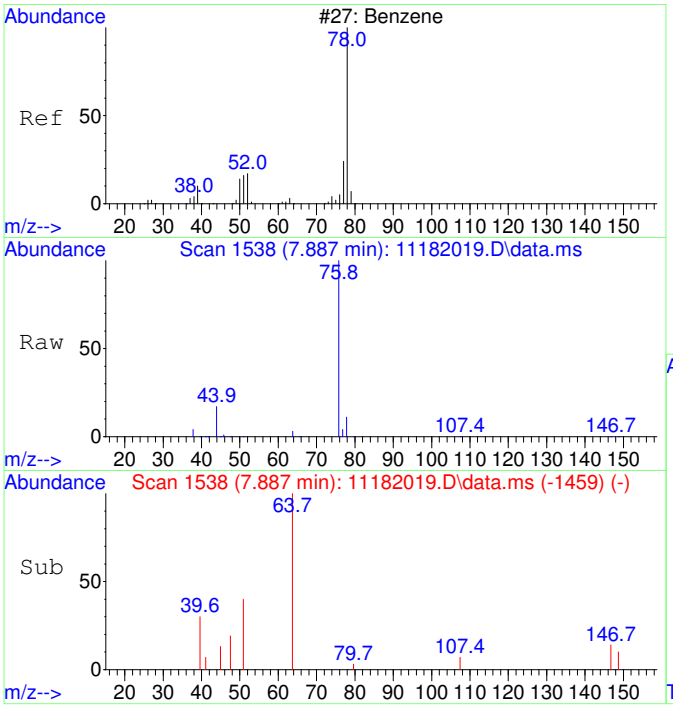


#31
1,1,1-Trichloroethane SCAN
Concen: 79.86 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 97 Resp: 1382

Ion	Ratio	Lower	Upper
97	100		
99	70.1	43.6	103.6
61	21.0	18.0	78.0

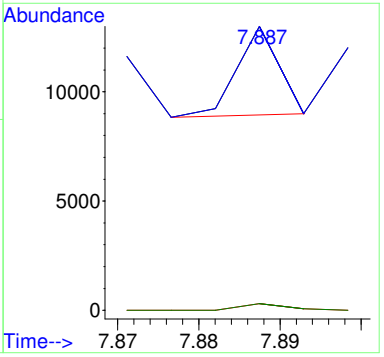


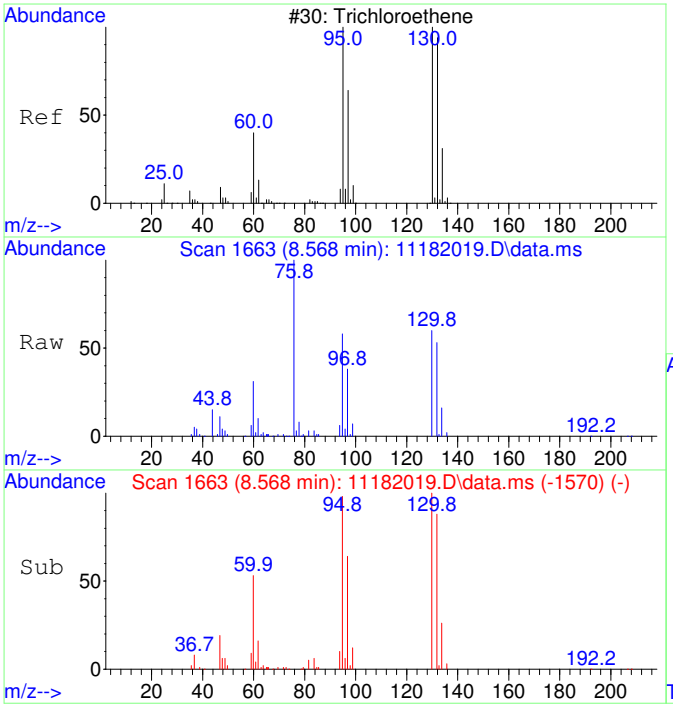


#33
Benzene SCAN
Concen: 30.70 ug/L
RT: 7.887 min Scan# 1538
Delta R.T. 0.386 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 78 Resp: 1463

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.5	0.0	47.9
51	8.5	0.0	44.1

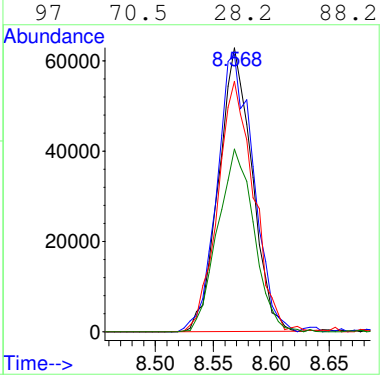


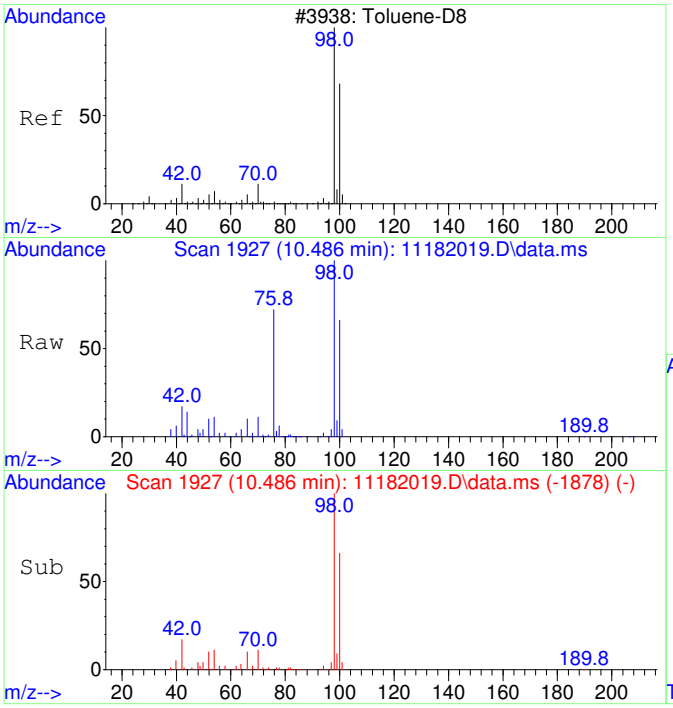


#35
Trichloroethene SCAN
Concen: 9622.84 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion:130 Resp: 126003

Ion	Ratio	Lower	Upper
130	100		
95	106.9	60.5	120.5
132	94.8	59.6	119.6
97	70.5	28.2	88.2

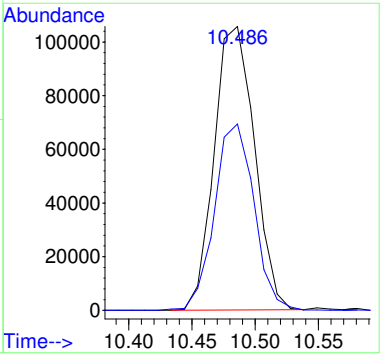


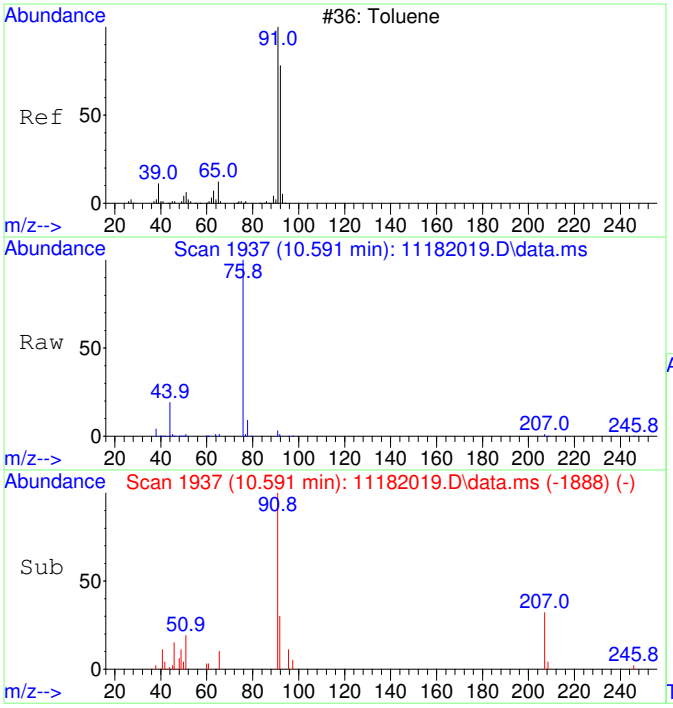


#36
Toluene-d8 SCAN
Concen: 4467.26 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 98 Resp: 234745

Ion	Ratio	Lower	Upper
98	100		
100	64.5	40.0	100.0

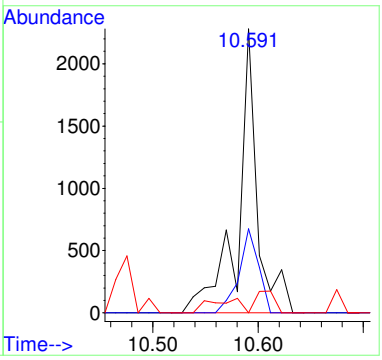


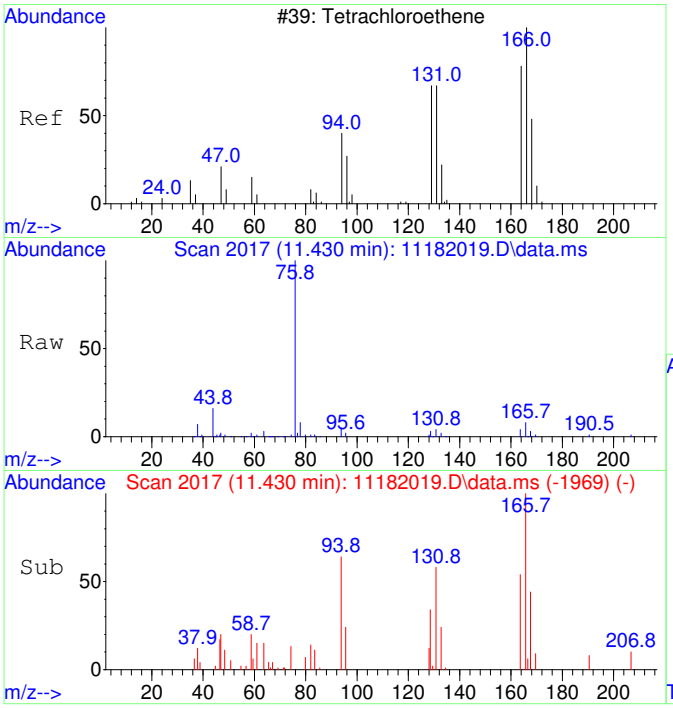


#37
Toluene SCAN
Concen: 43.45 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion: 91 Resp: 2924

Ion	Ratio	Lower	Upper
91	100		
92	29.8	28.3	88.3
65	8.0	0.0	41.0

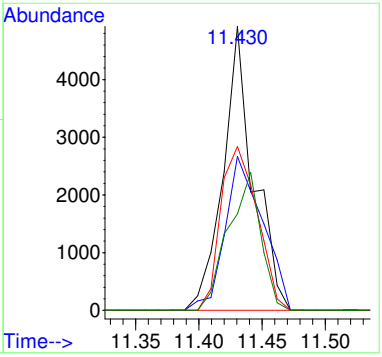




#39
Tetrachloroethene SCAN
Concen: 511.89 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11182019.D
Acq: 18 Nov 2020 16:43

Tgt Ion:166 Resp: 8276

Ion	Ratio	Lower	Upper
166	100		
164	66.8	50.9	110.9
131	69.2	38.7	98.7
129	52.0	41.8	101.8



2011017-08RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182020.D
Acq On : 18 Nov 2020 17:07
InstName : AG5975C
Operator : TD
Sample : 2011017-08RE1
Misc : 20X DL (190-10)
ALS Vial : 20 Sample Multiplier: 20

Quant Time: Nov 19 06:10:06 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

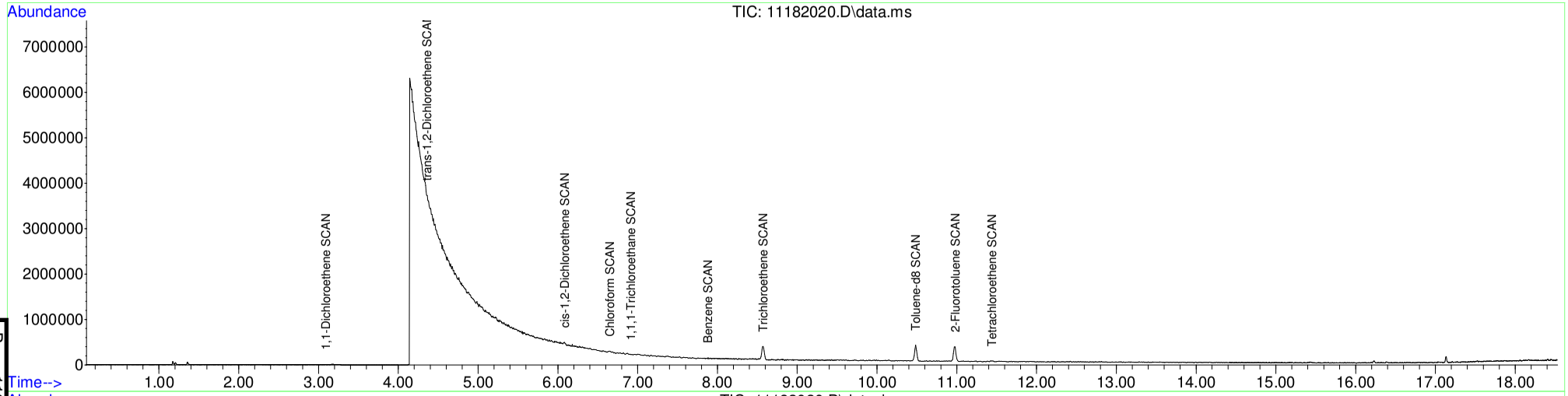
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	578086	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.477	98	481765	4257.13	ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 85.14%#				
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.090	61	1781	77.15	ug/L		94
3] trans-1,2-Dichloroethene	4.349	61	2332	87.44	ug/L		85
4] 1,1-Dichloroethane	5.066	63	1480	44.58	ug/L		73
5] cis-1,2-Dichloroethene	6.081	61	46591	1329.48	ug/L	RPT	99
6] Chloroform	6.652	83	17914	499.42	ug/L		99
7] 1,1,1-Trichloroethane	6.907	97	1588	40.77	ug/L		100
11] Trichloroethene	8.569	130	224954	7606.80	ug/L	RPT	94
15] Tetrachloroethene	11.432	166	11604	277.92	ug/L		99
25) 2-Fluorotoluene SCAN	10.979	109	264361	4691.18	ug/L		97
26) 1,1-Dichloroethene SCAN	3.092	61	278	23.23	ug/L		86
27) trans-1,2-Dichloroethe...	4.355	61	1130	76.30	ug/L	#	70
29) cis-1,2-Dichloroethene...	6.080	61	25479	1387.55	ug/L		87
30) Chloroform SCAN	6.650	83	10432	523.78	ug/L		86
31) 1,1,1-Trichloroethane ...	6.918	97	683	37.63	ug/L	#	49
33) Benzene SCAN	7.882	78	4637	92.79	ug/L		92
35) Trichloroethene SCAN	8.568	130	106544	7758.30	ug/L		85
36) Toluene-d8 SCAN	10.486	98	244814	4442.18	ug/L		91
39) Tetrachloroethene SCAN	11.441	166	5943	350.49	ug/L		84

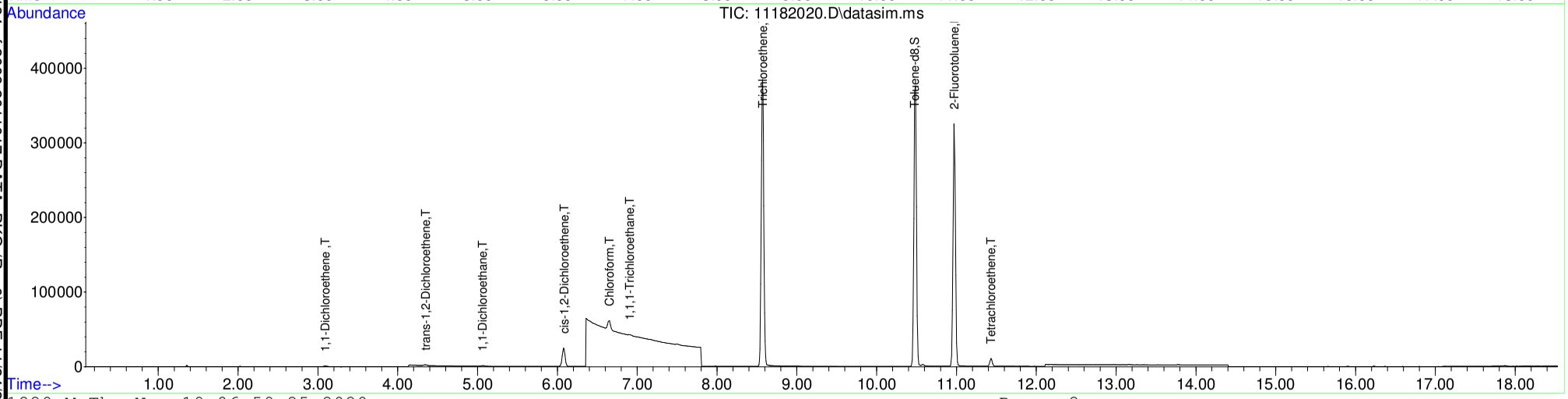
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182020.D
Acq On : 18 Nov 2020 17:07
InstName : AG5975C
Operator : TD
Sample : 2011017-08RE1
Misc : 20X DL (190-10)
ALS Vial : 20 Sample Multiplier: 20

Quant Time: Nov 19 06:10:06 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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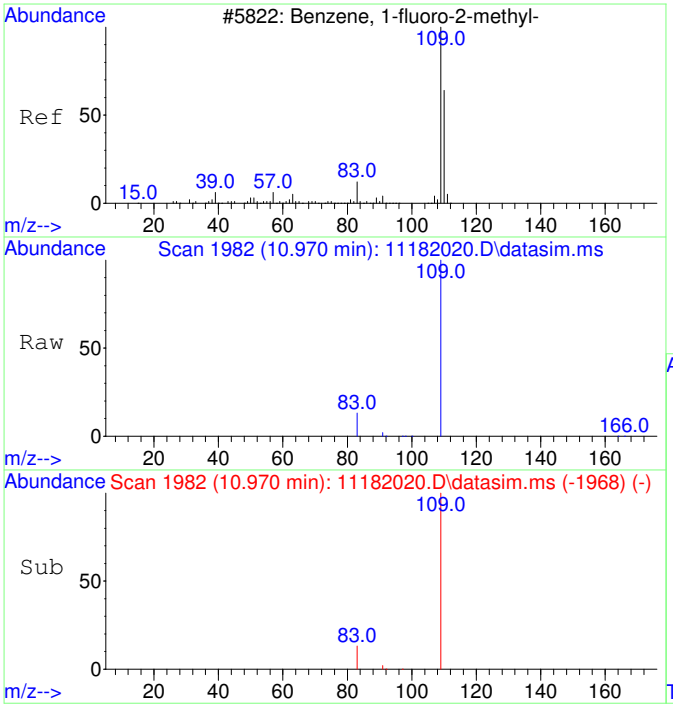
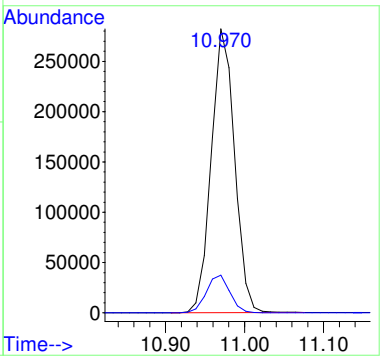
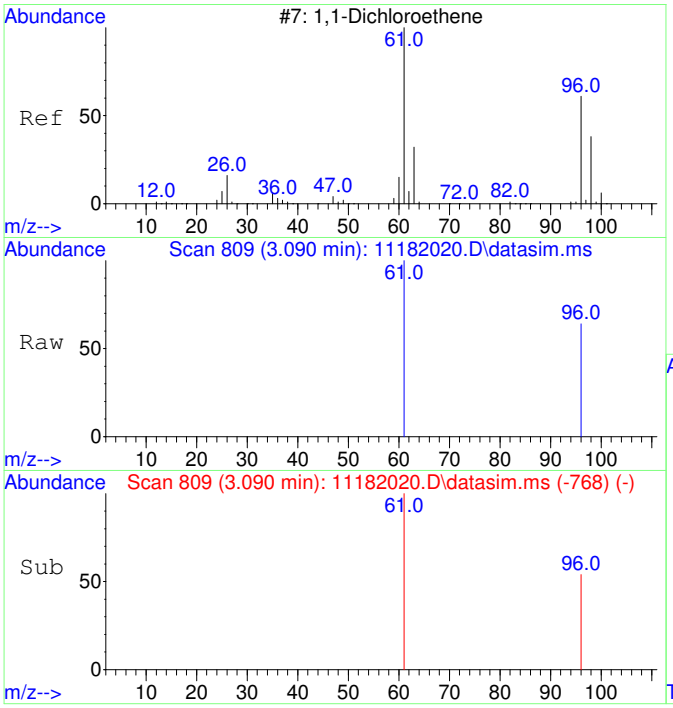


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion:109 Resp: 578086

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

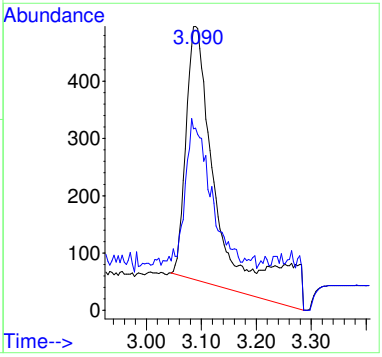


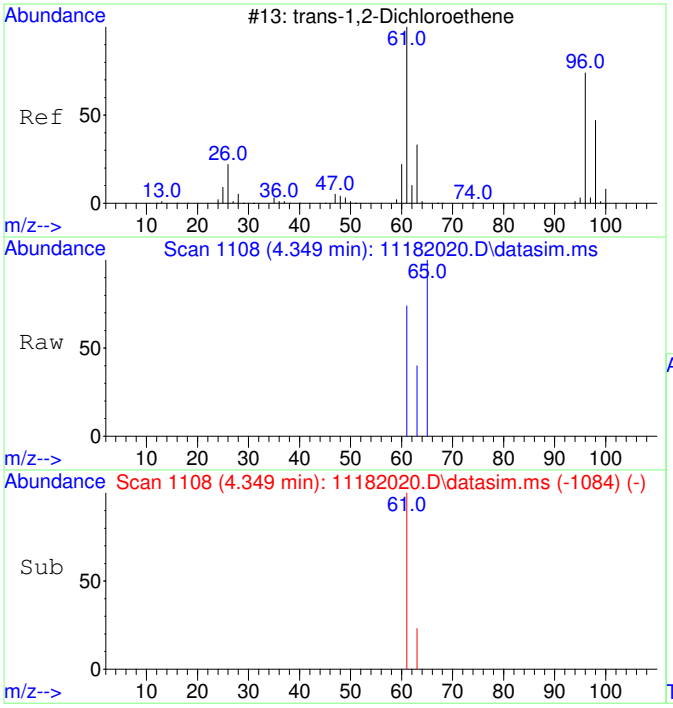


#2
1,1-Dichloroethene
Concen: 77.15 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion: 61 Resp: 1781

Ion	Ratio	Lower	Upper
61	100		
96	62.6	37.2	97.2

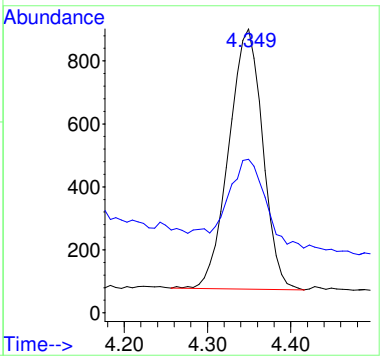


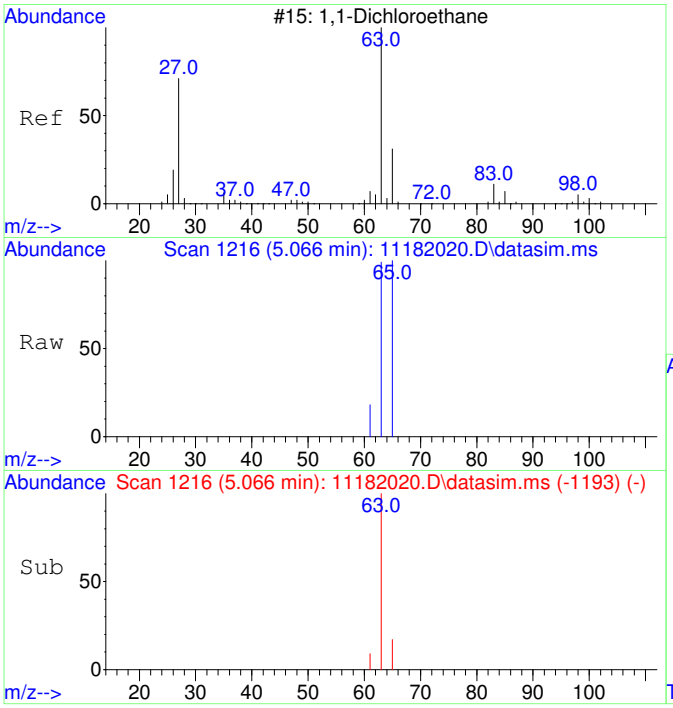


#3
trans-1,2-Dichloroethene
Concen: 87.44 ug/L
RT: 4.349 min Scan# 1108
Delta R.T. 0.007 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion: 61 Resp: 2332

Ion	Ratio	Lower	Upper
61	100		
63	40.7	2.4	62.4

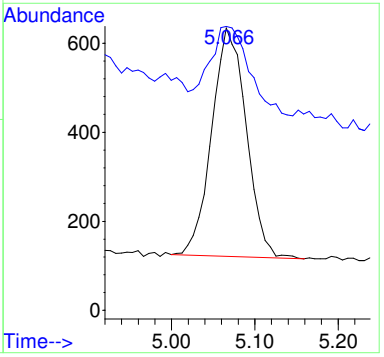


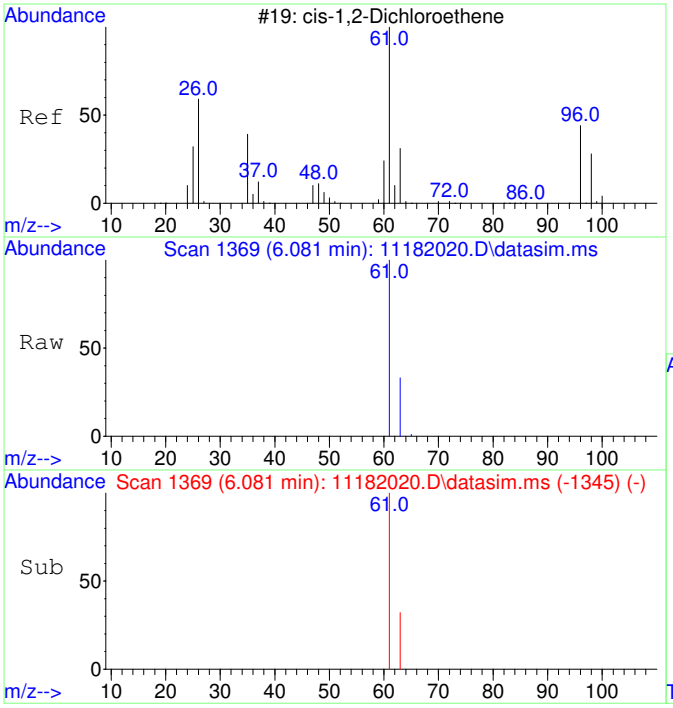


#4
1,1-Dichloroethane
Concen: 44.58 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion: 63 Resp: 1480

Ion	Ratio	Lower	Upper
63	100		
65	47.0	1.8	61.8

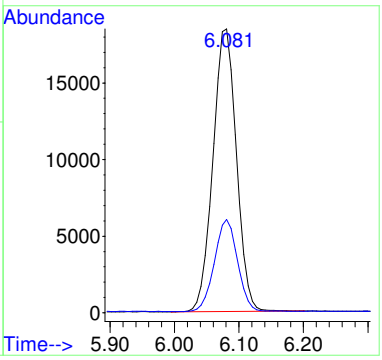


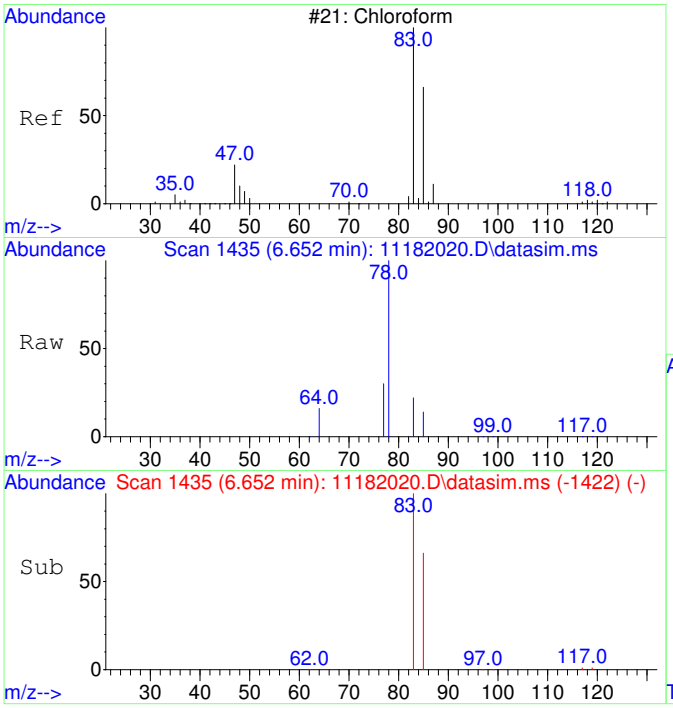


#5
cis-1,2-Dichloroethene
Concen: 1329.48 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion: 61 Resp: 46591

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

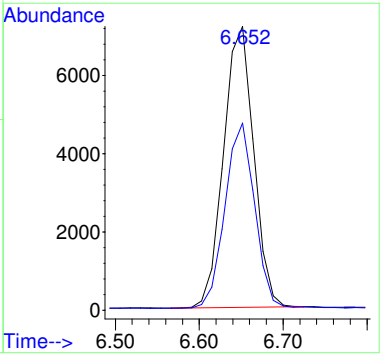


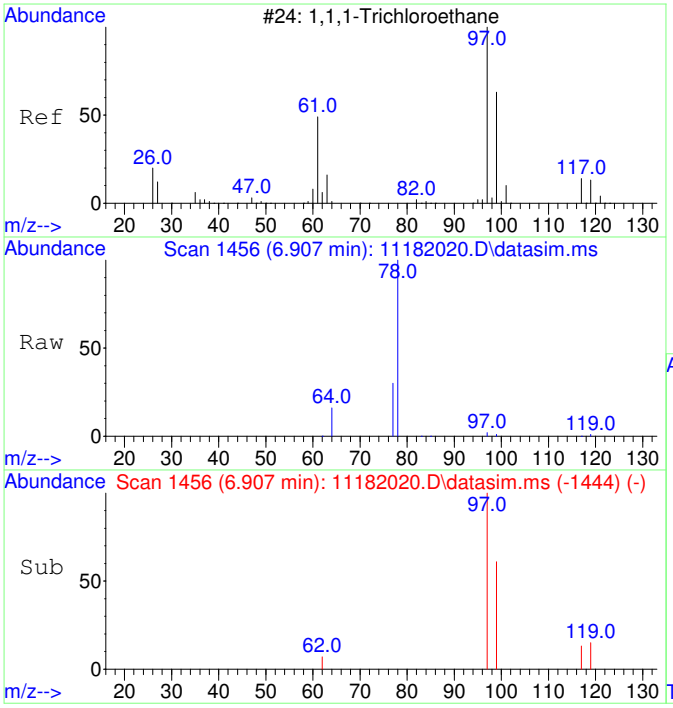


#6
Chloroform
Concen: 499.42 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion: 83 Resp: 17914

Ion	Ratio	Lower	Upper
83	100		
85	64.2	35.1	95.1

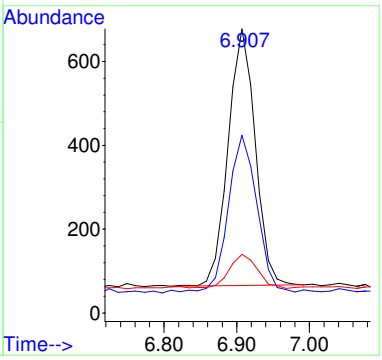


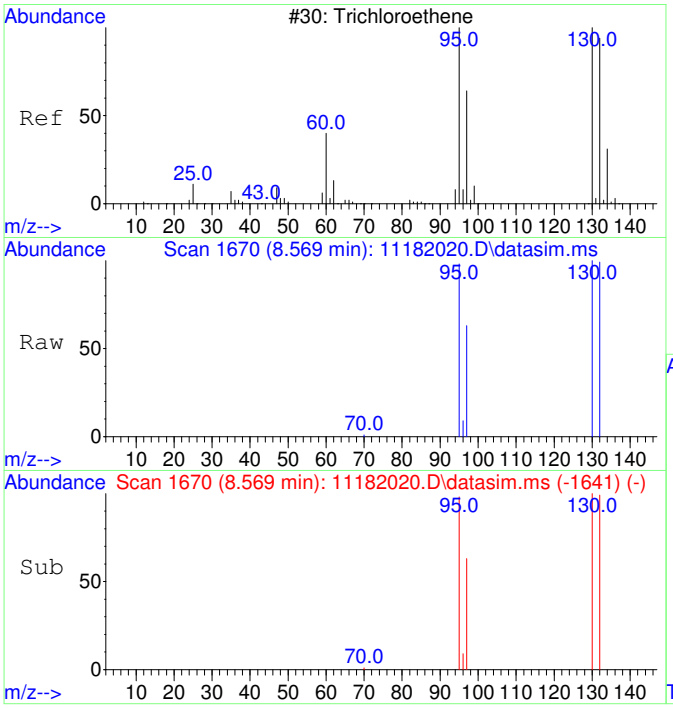


#7
1,1,1-Trichloroethane
Concen: 40.77 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion: 97 Resp: 1588

Ion	Ratio	Lower	Upper
97	100		
99	64.8	34.6	94.6
117	13.7	0.0	43.2

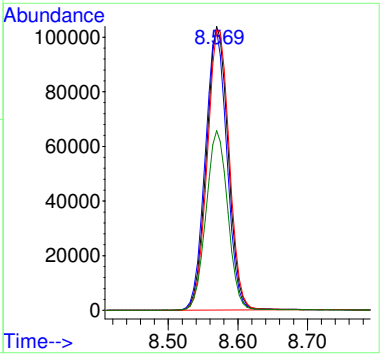


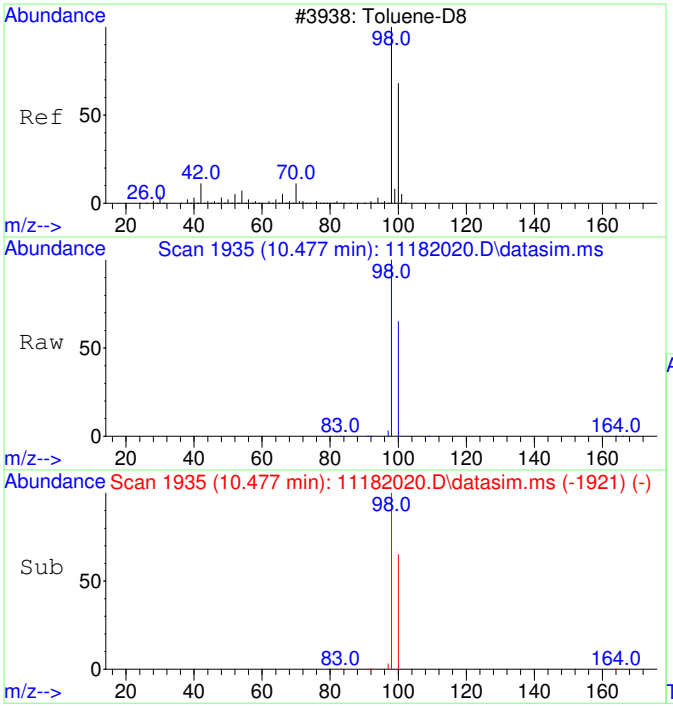


#11
Trichloroethene
Concen: 7606.80 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion:130 Resp: 224954

Ion	Ratio	Lower	Upper
130	100		
95	98.0	60.7	120.7
132	99.7	76.0	116.0
97	62.8	38.6	78.6

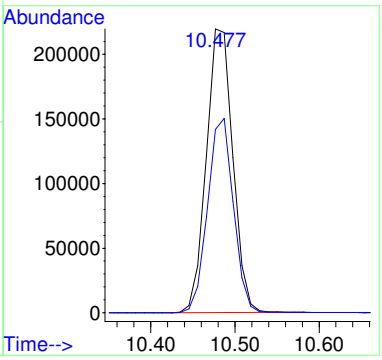


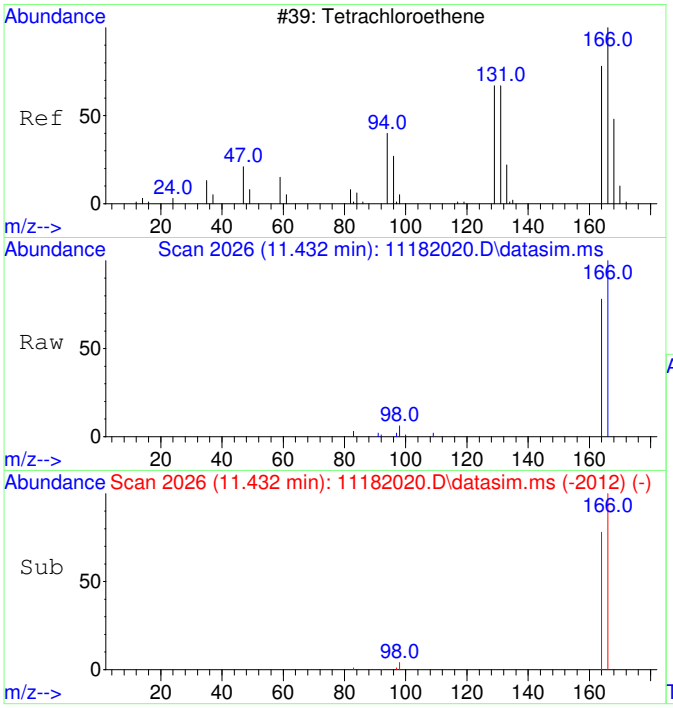


#12
Toluene-d8
Concen: 4257.13 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion: 98 Resp: 481765

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

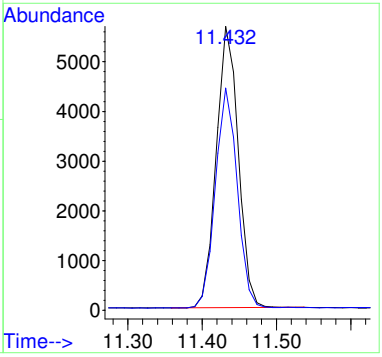


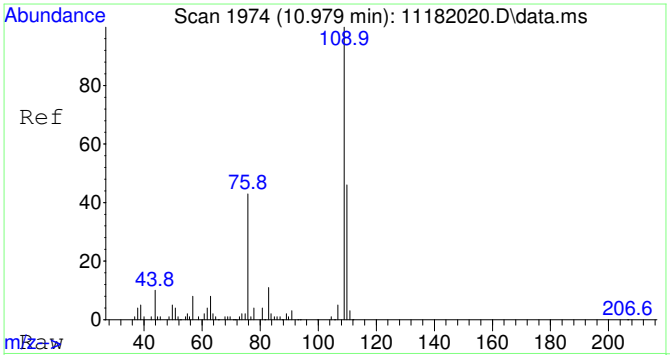


#15
Tetrachloroethene
Concen: 277.92 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion:166 Resp: 11604

Ion	Ratio	Lower	Upper
166	100		
164	77.2	47.8	107.8

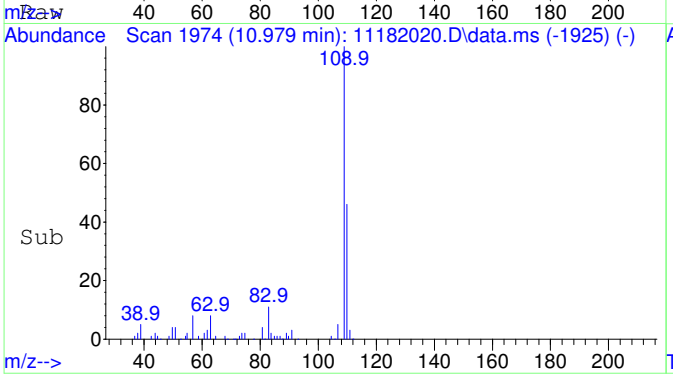


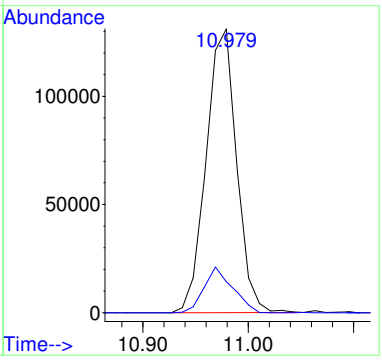


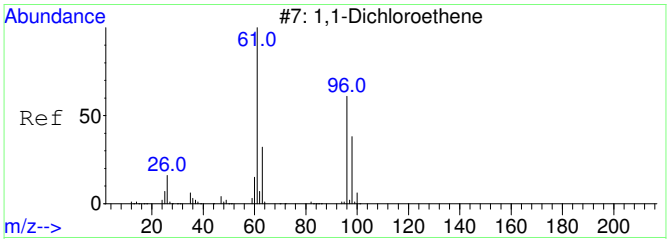
#25
2-Fluorotoluene SCAN
Concen: 4691.18 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion:109 Resp: 264361

Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	43.8



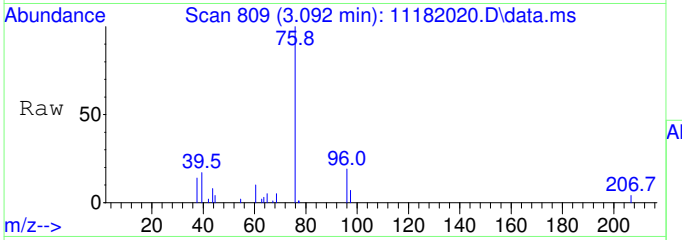


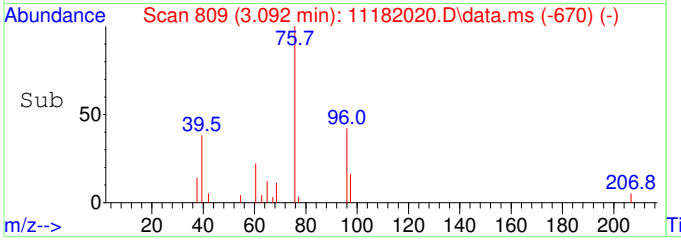


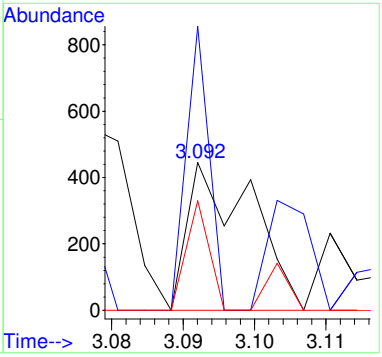
#26
1,1-Dichloroethene SCAN
Concen: 23.23 ug/L
RT: 3.092 min Scan# 809
Delta R.T. 0.015 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

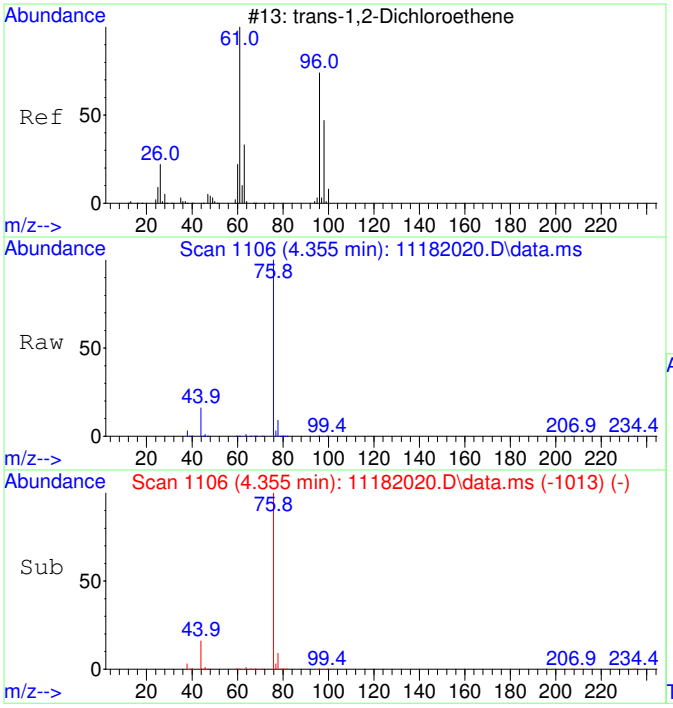
Tgt Ion: 61 Resp: 278

Ion	Ratio	Lower	Upper
61	100		
96	68.7	33.1	93.1
98	26.6	11.2	71.2





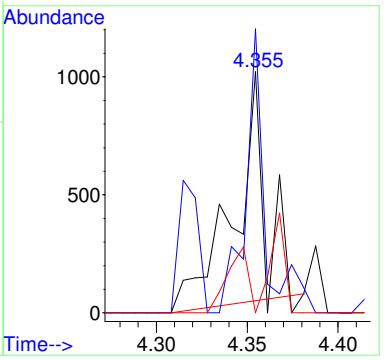


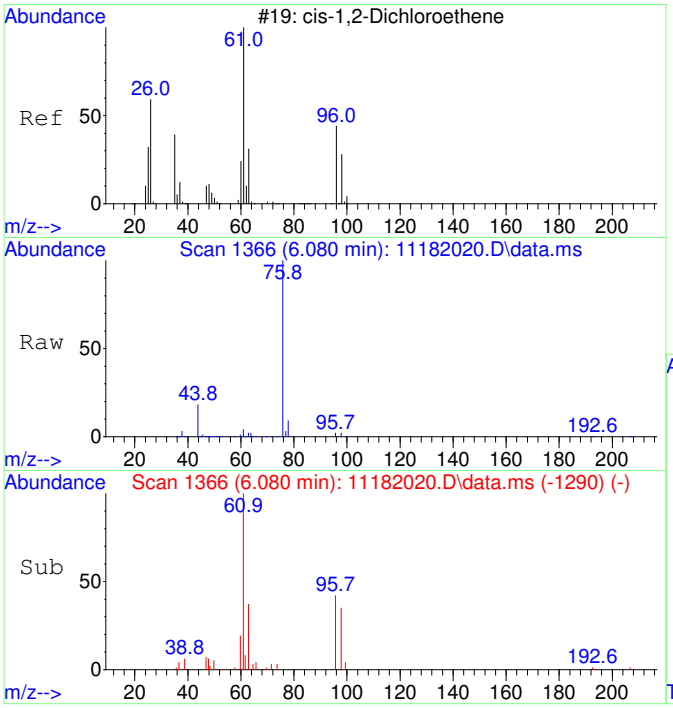


#27
trans-1,2-Dichloroethene SCAN
Concen: 76.30 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. 0.007 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion: 61 Resp: 1130

Ion	Ratio	Lower	Upper
61	100		
96	60.4	49.0	109.0
98	19.9	20.5	80.5#

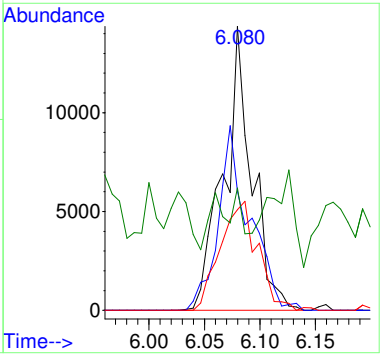


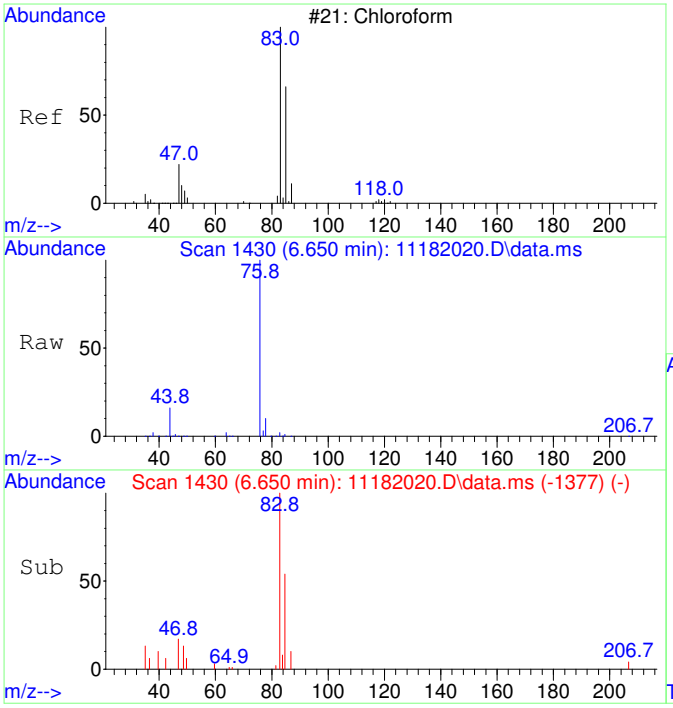


#29
cis-1,2-Dichloroethene SCAN
Concen: 1387.55 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.007 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion: 61 Resp: 25479

Ion	Ratio	Lower	Upper
61	100		
96	71.5	39.9	99.9
98	51.4	13.5	73.5
64	14.5	4.5	64.5

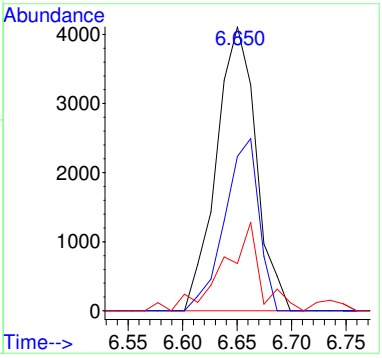


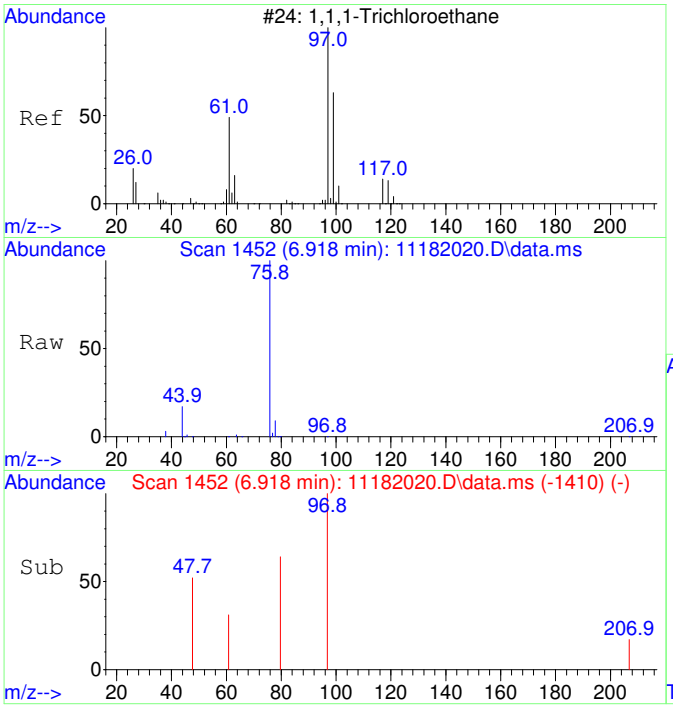


#30
Chloroform SCAN
Concen: 523.78 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion: 83 Resp: 10432

Ion	Ratio	Lower	Upper
83	100		
85	52.4	34.6	94.6
47	28.9	0.0	53.4

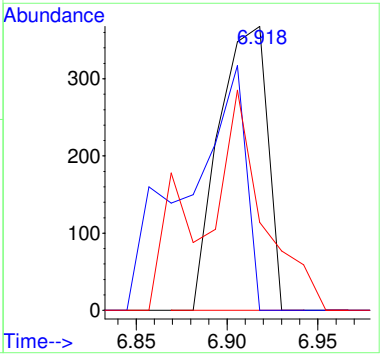


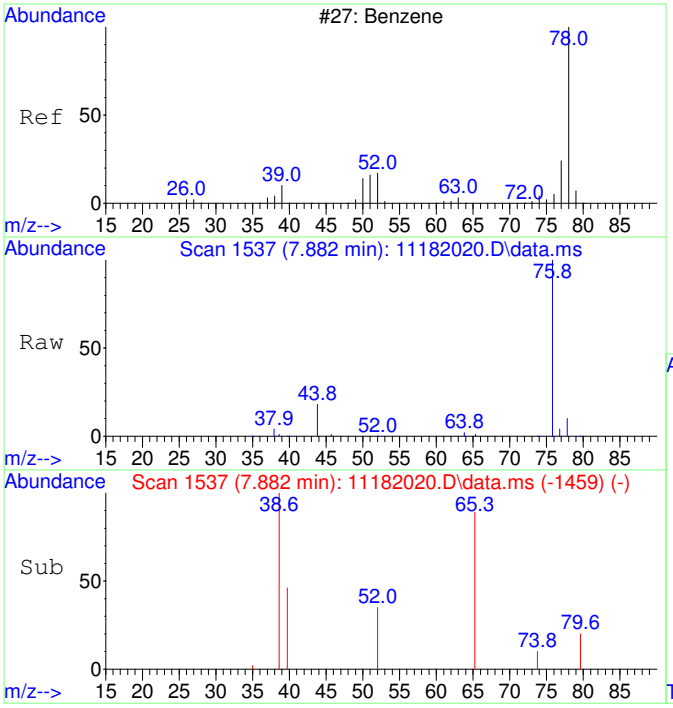


#31
1,1,1-Trichloroethane SCAN
Concen: 37.63 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion: 97 Resp: 683

Ion	Ratio	Lower	Upper
97	100		
99	105.0	43.6	103.6#
61	96.8	18.0	78.0#

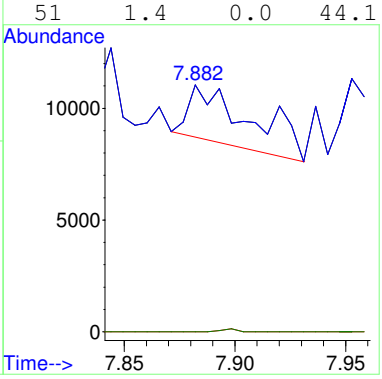


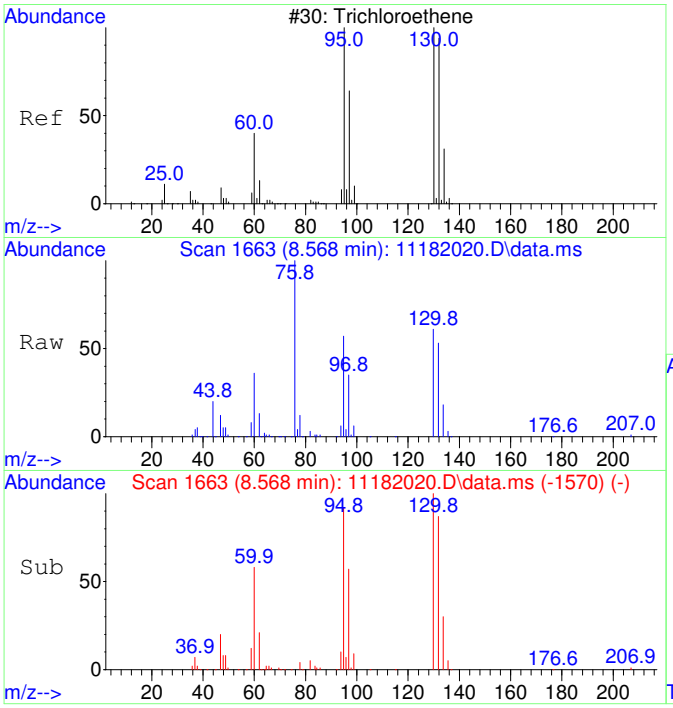


#33
Benzene SCAN
Concen: 92.79 ug/L
RT: 7.882 min Scan# 1537
Delta R.T. 0.380 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion: 78 Resp: 4637

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.4	0.0	47.9
51	1.4	0.0	44.1

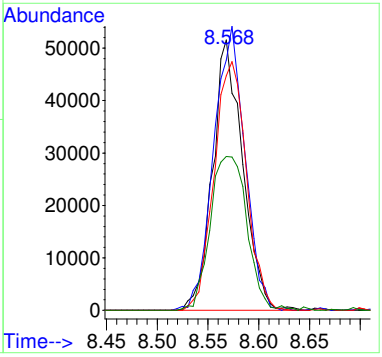


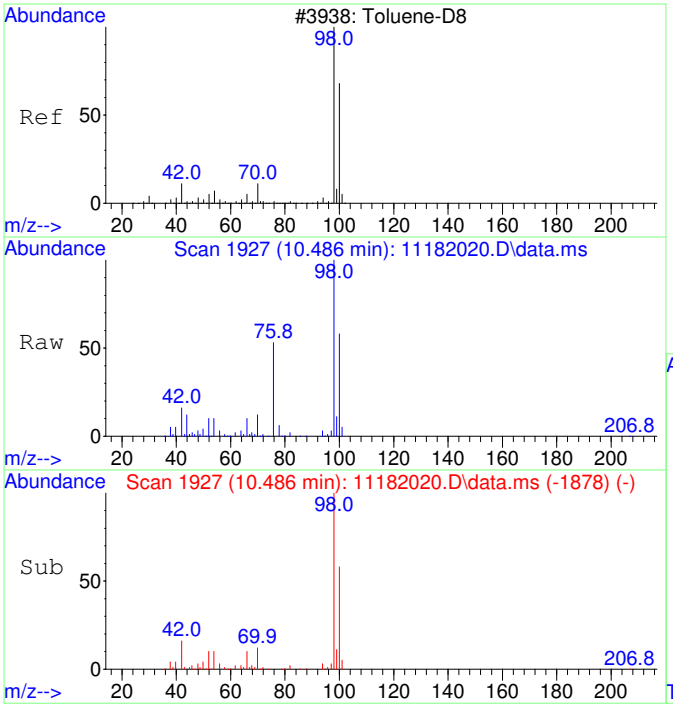


#35
Trichloroethene SCAN
Concen: 7758.30 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion:130 Resp: 106544

Ion	Ratio	Lower	Upper
130	100		
95	108.6	60.5	120.5
132	98.6	59.6	119.6
97	69.5	28.2	88.2

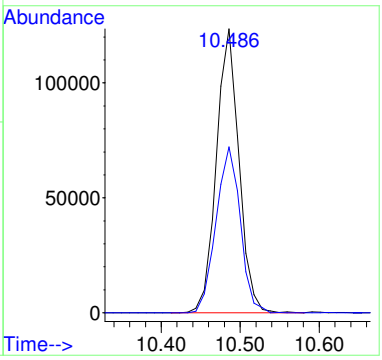


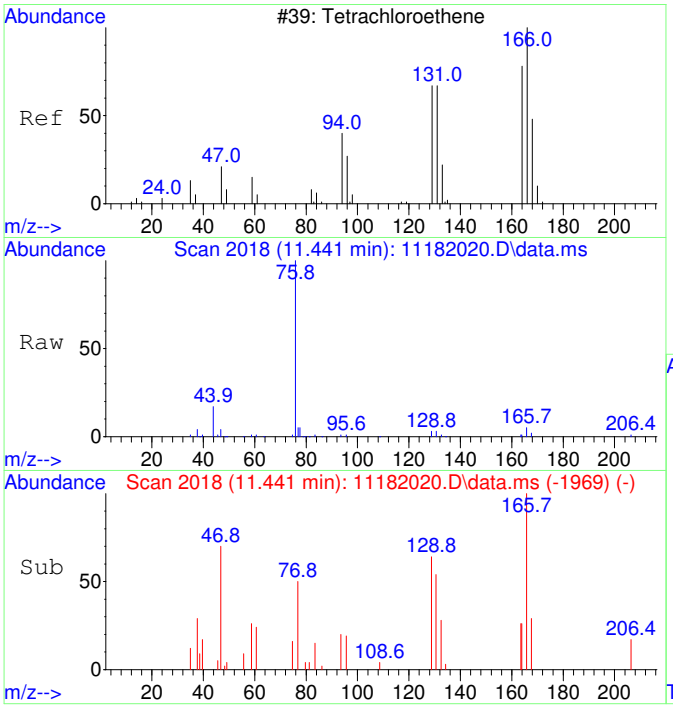


#36
Toluene-d8 SCAN
Concen: 4442.18 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion: 98 Resp: 244814

Ion	Ratio	Lower	Upper
98	100		
100	62.5	40.0	100.0

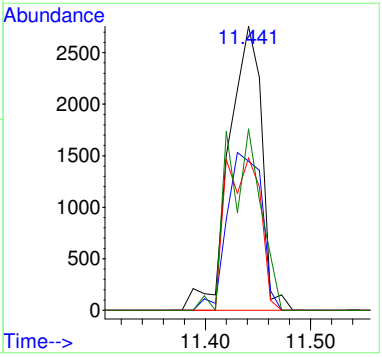




#39
Tetrachloroethene SCAN
Concen: 350.49 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11182020.D
Acq: 18 Nov 2020 17:07

Tgt Ion:166 Resp: 5943

Ion	Ratio	Lower	Upper
166	100		
164	59.2	50.9	110.9
131	56.9	38.7	98.7
129	65.5	41.8	101.8



SEQUENCE

S20K085

Sequence Date: 11/19/2020

Instrument: AG5975CV

Sequence Analyses:

VOCs, Passive Samplers

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B20K078	SEQUENCE #:	S20K085 11/19/20
BATCH #:		ANALYSIS:	VOA Passive Air. R21S04

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
DOCUMENTATION	ANALYST: Bench sheet(s) attached? REVIEWER: Bench sheet(s) reviewed?	☐	Y	Y	
	ANALYST: Sequence log(s) attached? REVIEWER: Sequence log(s) reviewed?	☐	Y	Y	
	ANALYST: Every run has a PDF in LIMS? REVIEWER: Every PDF reviewed?	☐	Y	Y	
INITIAL CALIBRATION	Date of Initial Calibration used: If applicable, note date of "Last Update" in Comments.	Mon Nov 16 10:20:51 2020			RT UPDATED ONLY
	Initial Calibration ID (LIMS number):	2008017			
	ICAL within QC criteria?	✔			
	SCV within QC criteria?	✔			
INSTRUMENT / QC CHECKS	Tune or degradation checks within QC criteria?	☐	Y	Y	
	CCV(s) within QC criteria?	☐	Y	Y	
	QLS(s) within QC criteria?	☐	Y	Y	
	CB(s) or storage blank(s) within QC criteria?	✔			
	Other instrument checks within QC criteria? Specify if applicable.	✔			
BATCH QCs	Method blanks < 1/2 QL?	☐	Y	Y	
	LCS(s) or SRM(s) within QC criteria?	☐	Y	Y	
	MSs/MSDs and/or DUPs within QC criteria?	✔			
	Other method-specific QCs within QC criteria? Specify if applicable.	✔			

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B20K078	SEQUENCE #:	S20K085 11/19/20
BATCH #:		ANALYSIS:	VOA Passive Air. R21S04

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
IS / SS	Internal standards within QC criteria?	☐	Y	Y	
	Surrogates within QC criteria?	☐	Y	Y	
SAMPLE DATA	Were samples prepared & analyzed within holding time?	☐	Y	Y	
	If samples need to be re-run, were RE(s) made in LIMS?	☐	Y	Y	
	Do any samples need to be re-digested or re-extracted?	✔			
	Were all data qualifiers appropriately applied?	☐	Y	Y	
	Are problems, anomalies, discrepancies documented in LIMS? Specify if applicable.	✔			
MANUAL INT	Were manual integrations performed and documented? Specify if applicable.	☐	Y	Y	

APPROVALS	ANALYST INITIALS & DATE:	TD 11/23/20
	REVIEWED BY:	Rajabi, Ziyad Digitally signed by Rajabi, Ziyad Date: 2020.11.23 16:13:41 -08'00' SIGN HERE

COMMENTS

Custom analyte list.

Run stopped half way due to injector error

FORM #: Q015
REV #: 1

Injection Log

Operator: TD
Directory: C:\msdchem\1\Ravioli Data\2020\111920\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	11192001.D	1	S20K085-IBL1		19 Nov 2020 8:38
2	11192002.D	1	S20K085-TUN1	BFB 2040028	19 Nov 2020 9:00
3	11192003.D	1	S20K085-CCV1	2030070 5 mg/L	19 Nov 2020 9:09
4	11192004.D	1	S20K085-CRL1	2030073 0.05 mg/L	19 Nov 2020 9:33
5	11192005.D	1	B20K078-BLK1		19 Nov 2020 9:57
6	11192006.D	1	B20K078-BS1		19 Nov 2020 10:20
7	11192007.D	1	B20K078-BSD1		19 Nov 2020 10:44
8	11192008.D	1	B20K078-MRL1		19 Nov 2020 11:08
9	11192009.D	1	2011017-19		19 Nov 2020 11:31
10	11192010.D	1	2011017-20		19 Nov 2020 11:55
11	11192011.D	1	2011017-21		19 Nov 2020 12:19
12	11192012.D	1	2011017-22		19 Nov 2020 12:42

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\Ravioli Data\2020\111920\11192002.D
Tune Time : 19 Nov 2020 9:00

Daily Calibration File : C:\msdchem\1\Ravioli Data\2020\111920\11192003.D

File	Sample	Surrogate Recovery %	Internal Standard Responses
			496242
11192003.D	S20K085-CC	95	496242
11192004.D	S20K085-CR	1*	507664
11192005.D	B20K078-BL	88	587452
11192006.D	B20K078-BS	89	488823
11192007.D	B20K078-BS	89	507454
11192008.D	B20K078-MR	88	562715
11192009.D	2011017-19	87	588054
11192010.D	2011017-20	87	593258
11192011.D	2011017-21	87	524159
11192012.D	2011017-22	86	585956

(fails) - fails 12hr time check * - fails criteria

Created: Mon Nov 23 08:17:46 2020 AG5975C

Analysis Sequence

S20K085

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2008017 Printed: 11/23/2020 1:53 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S20K085-IBL1	Instrument Blank	1	11/19/20 8:38		2030067	TD	11192001.D	
S20K085-TUN1	BFB	2	11/19/20 9:00	2040028		TD	11192002.D	
S20K085-CCV1	Calibration Check	3	11/19/20 9:09	2030070		TD	11192003.D	
S20K085-CRL1	Instrument RL Check	4	11/19/20 9:33	2030073		TD	11192004.D	
B20K078-BLK1	Blank	5	11/19/20 9:57			TD	11192005.D	
B20K078-BS1	LCS	6	11/19/20 10:20			TD	11192006.D	
B20K078-BSD1	LCS Dup	7	11/19/20 10:44			TD	11192007.D	
B20K078-MRL1	MRL Check	8	11/19/20 11:08			TD	11192008.D	
2011017-19 A	Classics-G31-SC-1ft-7d	9	11/19/20 11:31			TD	11192009.D	
2011017-20 A	Classics-H33-SC-1ft-7d	10	11/19/20 11:55			TD	11192010.D	
2011017-21 A	Classics-H33-SC-1ft-7d-Dup	11	11/19/20 12:19			TD	11192011.D	
2011017-22 A	Classics-J34-SC-1ft-7d	12	11/19/20 12:42			TD	11192012.D	

Sequence Comments

Reagents

Reagent #	Description

SEQUENCE DATA

S20K085

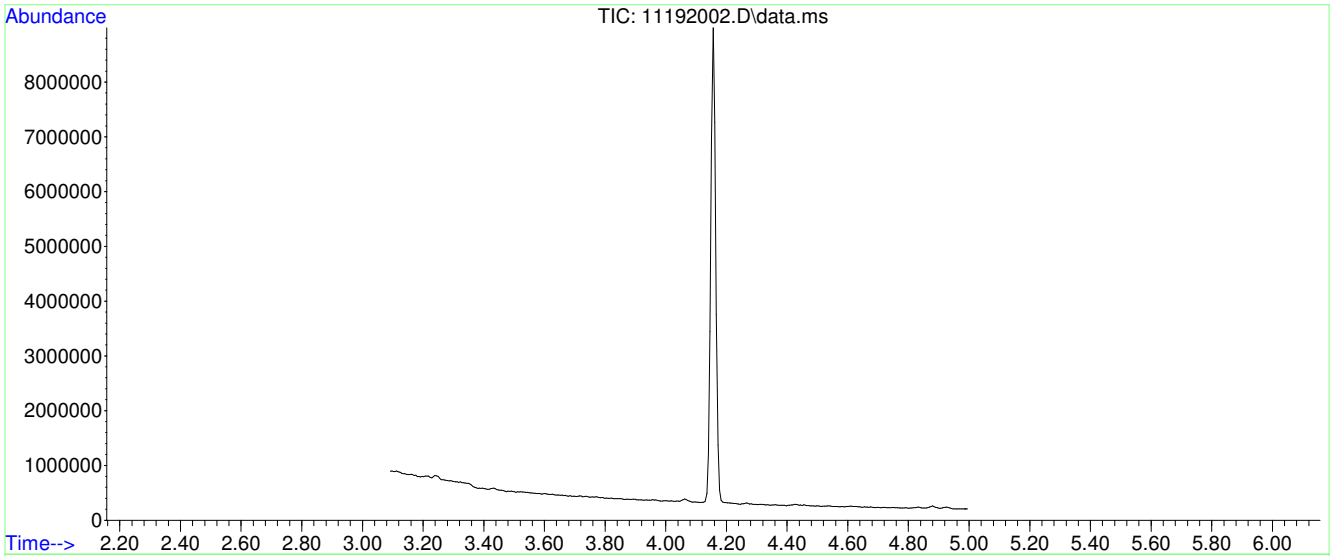
S20K085-TUN1

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192002.D
Acq On : 19 Nov 2020 9:00
Operator : TD
Sample : S20K085-TUN1
Misc : BFB 2040028
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: Ravioli.P

Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Mon Nov 16 10:20:51 2020



AutoFind: Scans 203, 204, 205; Background Corrected with Scan 196

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	280533	PASS
75	95	30	60	49.8	731557	PASS
95	95	100	100	100.0	1469952	PASS
96	95	5	9	6.7	98216	PASS
173	174	0.00	2	0.8	10186	PASS
174	95	50	120	90.6	1332203	PASS
175	174	5	9	7.1	94797	PASS
176	174	95	101	96.0	1278656	PASS
177	176	5	9	6.6	83987	PASS

Average of 4.151 to 4.162 min.: 11192002.D\data.ms
S20K085-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	11966	48.05	8016	60.00	12913	70.90	522
37.00	69747	49.00	61208	61.00	70035	71.10	165
38.00	62087	50.00	280533	62.00	71509	71.95	7341
39.00	22724	51.00	85421	63.00	52789	73.00	63157
39.90	654	52.05	3856	63.95	4202	74.00	247417
41.40	69	53.00	91	64.95	535	75.00	731557
42.95	733	55.05	4139	66.00	65	75.90	48491
44.00	9107	56.00	23856	67.05	4022	76.95	7428
45.00	12462	57.00	43091	68.00	144061	77.90	4027
46.00	996	58.05	1954	69.00	146589	78.90	51747
47.00	15404	58.80	158	70.00	12105	79.90	14654

Average of 4.151 to 4.162 min.: 11192002.D\data.ms
S20K085-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.90	53643	96.00	98216	112.95	1613	124.90	518
81.90	12301	96.95	2710	114.90	1558	125.85	849
83.00	1361	102.90	716	115.90	5472	126.80	419
86.05	1263	103.90	6786	116.90	9879	127.90	5433
87.00	54261	104.90	2015	117.90	5815	128.90	2615
87.95	54579	105.90	7263	118.90	8103	129.90	5621
90.95	5329	106.90	1550	119.85	269	130.85	2293
92.00	40837	108.00	59	121.90	351	131.90	224
93.00	62531	109.85	889	122.80	102	133.00	452
94.00	174848	110.90	1659	122.95	231	133.80	219
95.00	1.46995e+006	111.90	1163	123.90	761	134.00	211

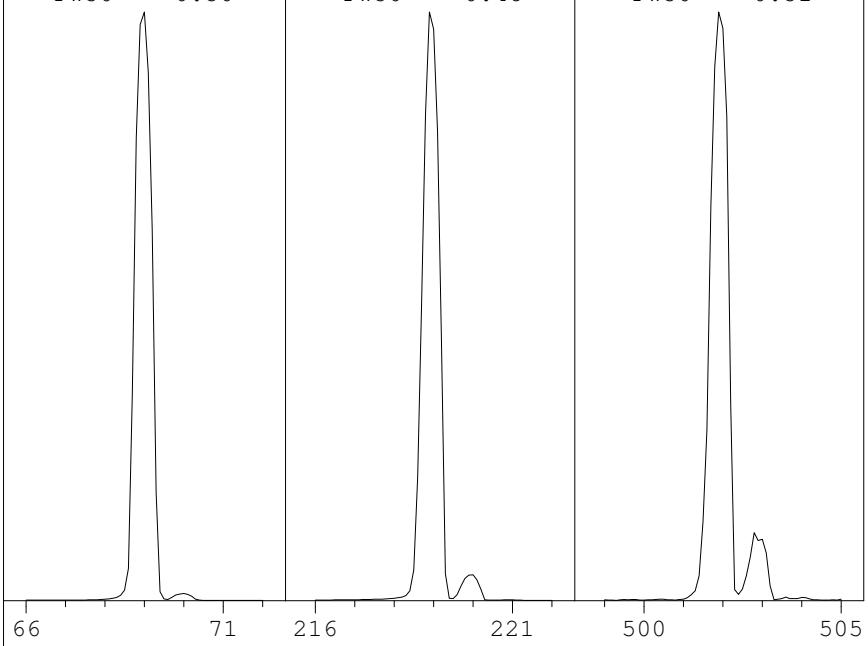
Average of 4.151 to 4.162 min.: 11192002.D\data.ms
S20K085-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
134.90	2655	146.95	1071	158.05	211	169.50	108
135.85	512	147.90	3508	158.95	1768	169.95	265
136.90	2438	148.95	1045	159.80	180	170.20	119
138.90	585	149.85	1423	160.95	1771	170.60	117
139.90	1008	151.90	749	161.90	213	170.80	215
140.90	15370	152.90	1185	162.90	52	171.15	489
141.90	1780	153.80	259	167.50	54	171.85	1064
142.90	15349	153.95	776	167.80	82	172.05	1143
143.90	1035	154.90	3439	168.50	78	173.00	10186
144.90	1423	155.95	492	168.70	169	173.90	1.3322e+006
145.90	2116	156.95	2771	168.95	246	174.90	94797

Average of 4.151 to 4.162 min.: 11192002.D\data.ms
S20K085-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.90	1.27866e+006	249.00	423				
176.90	83987	251.00	79				
177.95	2167						
178.80	86						
179.00	83						
191.00	247						
192.90	389						
193.10	95						
195.00	61						
207.00	389						
208.00	313						

Mass	69.00	Mass	218.90	Mass	501.90
Ab	400638	Ab	268209	Ab	6872
Pw50	0.50	Pw50	0.48	Pw50	0.51

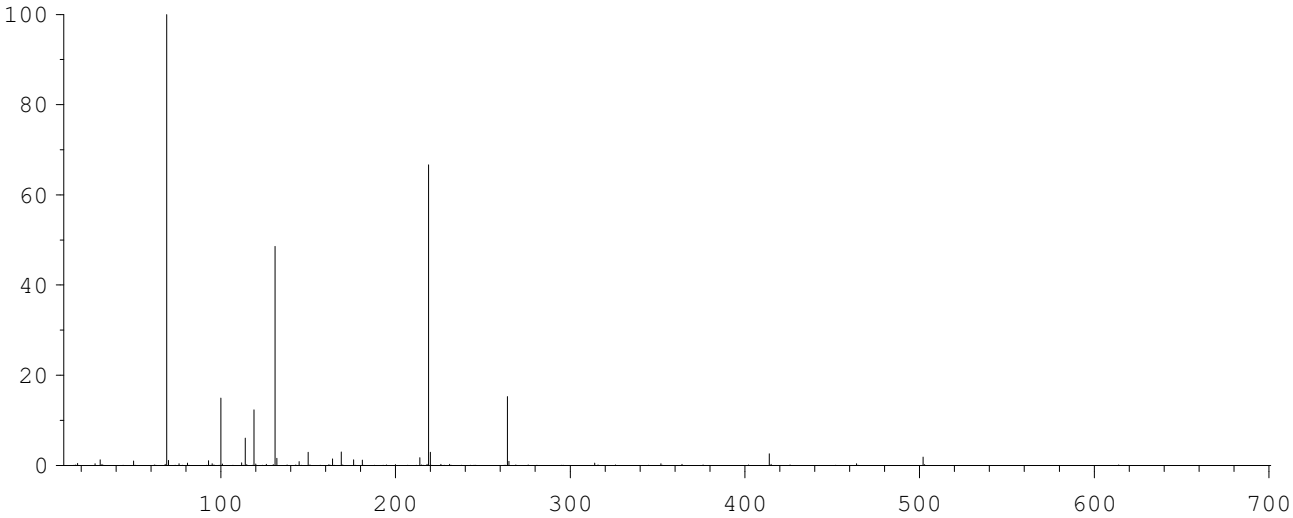


Ion Pol	Pos	MassGain	-1188
		MassOffs	-39
Emission	34.6	AmuGain	978
EIEnrgy	69.9	AmuOffs	127.94
Filament	1	Wid219	-0.003
		DC Pol	Pos
Repeller	29.79		
IonFcus	69.3	HEDEnab	On
EntLens	0.0	EMVolts	1329
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	230	Turbo Speed	100
MS Quad	150	HiVac	0.00e00

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10
106 peaks Base: 69.00 Abundance: 374656



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	374656	100.00	70.00	4055	1.08
219.00	249664	66.64	220.00	10927	4.38
502.00	6862	1.83	503.00	709	10.33

Air/Water Check: H20~0.44% N2~0.37% O2~0.21% CO2~0.03% N2/H2O~84.30%

Column(1) Flow: 1 Column(2): -1.79769e+308 ml/min. Interface Temp: 300

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 38079
Repeller Maximum 30 volts using ion 219; Gain Factor 0.38

MassGain Values(Samples): -1176(3) -1173(2) -1154(1) -1123(0) -1037(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	127.9	127.9	127.9	127.9	127.9	127.9	127.9
Entrance Lens Offset:	16.8	14.1	14.3	15.6	16.1	16.8	16.8
Target Abund(%):	1.0	100.0	45.0	55.0	2.5	2.0	
Actual Tune Abund(%):	1.0	100.0	48.6	66.6	2.6	1.8	

S20K085-CCV1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192003.D
Acq On : 19 Nov 2020 9:09
InstName : AG5975C
Operator : TD
Sample : S20K085-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 09:28:33 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.03min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	2-Fluorotoluene	1.000	1.000	0.0	74	0.00
2	T	1,1-Dichloroethene	0.200	0.198	1.0	77	0.00
3	T	trans-1,2-Dichloroethene	0.231	0.219	5.2	75	0.01
4	T	1,1-Dichloroethane	0.287	0.276	3.8	76	0.00
5	T	cis-1,2-Dichloroethene	0.303	0.287	5.3	75	0.00
6	T	Chloroform	0.310	0.293	5.5	74	0.01
7	T	1,1,1-Trichloroethane	0.337	0.312	7.4	72	0.00
8	T	Carbon tetrachloride	0.317	0.293	7.6	72	0.01
9	T	Benzene	0.850	0.783	7.9	74	0.00
10	T	1,2-Dichloroethane	0.303	0.277	8.6	72	0.00
11	T	Trichloroethene	0.256	0.244	4.7	75	0.01
12	S	Toluene-d8	0.979	0.931	4.9	73	0.01
13	T	Toluene	1.248	1.127	9.7	74	0.01
14	T	1,1,2-Trichloroethane	0.272	0.257	5.5	74	0.01
15	T	Tetrachloroethene	0.361	0.347	3.9	74	0.00
16	T	Chlorobenzene	0.894	0.858	4.0	74	0.00
17	T	1,1,1,2-Tetrachloroethane	0.320	0.303	5.3	73	0.00
18	T	Ethylbenzene	1.519	1.417	6.7	73	0.00
19	T	m&p-Xylene	1.187	1.076	9.4	73	0.00
20	T	o-Xylene	1.268	1.169	7.8	72	0.00
21	T	1,1,2,2-Tetrachloroethane	0.562	0.536	4.6	74	0.00
22	T	1,3,5-Trimethylbenzene	1.350	1.288	4.6	73	0.00
23	T	1,2,4-Trimethylbenzene	1.402	1.303	7.1	73	0.00
24	T	Naphthalene	2.216	2.317	-4.6	79	0.00
25		2-Fluorotoluene SCAN	0.487	0.487	0.0	74	0.01
26		1,1-Dichloroethene SCAN	0.104	0.105	-1.0	75	0.01
27		trans-1,2-Dichloroethene SC	0.128	0.117	8.6	67	0.02
28		1,1-Dichloroethane SCAN	0.148	0.153	-3.4	76	0.02
29		cis-1,2-Dichloroethene SCAN	0.159	0.162	-1.9	75	0.01
30		Chloroform SCAN	0.172	0.154	10.5	66	0.00
31		1,1,1-Trichloroethane SCAN	0.157	0.160	-1.9	75	0.01
32		Carbon tetrachloride SCAN	0.164	0.135	17.7	61	0.01
33		Benzene SCAN	0.432	0.428	0.9	73	0.01
34		1,2-Dichloroethane SCAN	0.160	0.141	11.9	65	0.00
35		Trichloroethene SCAN	0.119	0.111	6.7	69	0.01
36		Toluene-d8 SCAN	0.477	0.486	-1.9	75	0.01
37		Toluene SCAN	0.610	0.569	6.7	69	0.00
38		1,1,2-Trichloroethane SCAN	0.137	0.120	12.4	65	0.00
39		Tetrachloroethene SCAN	0.147	0.135	8.2	68	0.00
40		Chlorobenzene SCAN	0.417	0.400	4.1	71	0.00
41		1,1,1,2-Tetrachloroethane S	0.154	0.142	7.8	68	0.00
42		Ethylbenzene SCAN	1.112	1.082	2.7	72	0.00
43		m&p-Xylene SCAN	1.112	1.082	2.7	72	0.00
44		o-Xylene SCAN	0.595	0.571	4.0	71	0.00
45		1,1,2,2-Tetrachloroethane S	0.290	0.281	3.1	71	0.00
46		1,3,5-Trimethylbenzene SCAN	0.627	0.598	4.6	70	0.00
47		1,2,4-Trimethylbenzene SCAN	0.642	0.606	5.6	70	0.00
48		Naphthalene SCAN	0.971	0.976	-0.5	74	0.00

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192003.D
Acq On : 19 Nov 2020 9:09
InstName : AG5975C
Operator : TD
Sample : S20K085-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 09:28:33 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

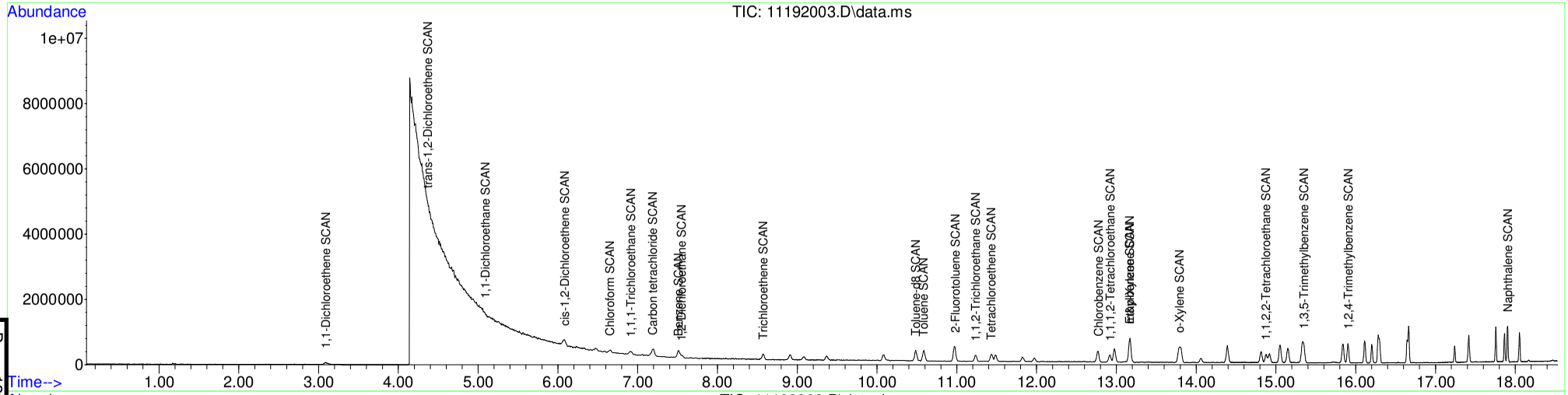
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	496242	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	461857	4754.32 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 95.09%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	98033	4947.23 ug/L	86
3] trans-1,2-Dichloroethene	4.356	61	108559	4741.70 ug/L	99
4] 1,1-Dichloroethane	5.072	63	136760	4798.72 ug/L	99
5] cis-1,2-Dichloroethene	6.081	61	142331	4731.29 ug/L	99
6] Chloroform	6.651	83	145320	4719.55 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	154604	4623.41 ug/L	100
8] Carbon tetrachloride	7.187	117	145401	4619.81 ug/L	99
9] Benzene	7.503	78	388531	4608.13 ug/L	98
10] 1,2-Dichloroethane	7.539	62	137425	4565.87 ug/L	99
11] Trichloroethene	8.575	130	121307	4778.51 ug/L	95
13] Toluene	10.582	91	559208	4515.18 ug/L	99
14] 1,1,2-Trichloroethane	11.232	97	127352	4719.01 ug/L	97
15] Tetrachloroethene	11.432	166	172138	4802.67 ug/L	100
16] Chlorobenzene	12.765	112	425937	4802.99 ug/L	94
17] 1,1,1,2-Tetrachloroethane	12.916	131	150551	4737.82 ug/L	100
18] Ethylbenzene	12.972	91	703385	4665.83 ug/L	98
19] m&p-Xylene	13.162	91	1067830	9063.05 ug/L	98
20] o-Xylene	13.782	91	580141	4608.76 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.877	83	266066	4769.22 ug/L	100
22] 1,3,5-Trimethylbenzene	15.350	105	639029	4769.51 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	646389	4644.70 ug/L	97
24] Naphthalene	17.902	128	1149699	5227.01 ug/L	100
25) 2-Fluorotoluene SCAN	10.979	109	241843	4999.40 ug/L	97
26) 1,1-Dichloroethene SCAN	3.088	61	52065	5067.99 ug/L	90
27) trans-1,2-Dichloroethe...	4.368	61	58173	4576.04 ug/L	88
28) 1,1-Dichloroethane SCAN	5.084	63	75762	5149.58 ug/L	95
29) cis-1,2-Dichloroethene...	6.086	61	80330	5096.18 ug/L #	77
30) Chloroform SCAN	6.650	83	76562	4478.11 ug/L	92
31) 1,1,1-Trichloroethane ...	6.918	97	79339	5092.31 ug/L	87
32) Carbon tetrachloride SCAN	7.185	117	66785	4109.39 ug/L	91
33) Benzene SCAN	7.514	78	212543	4954.62 ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	70092	4424.95 ug/L	83
35) Trichloroethene SCAN	8.573	130	54856	4653.30 ug/L	86
36) Toluene-d8 SCAN	10.486	98	241309	5100.73 ug/L	91
37) Toluene SCAN	10.580	91	282150	4657.03 ug/L	99
38) 1,1,2-Trichloroethane ...	11.231	97	59663	4387.32 ug/L	92
39) Tetrachloroethene SCAN	11.430	166	66939	4598.86 ug/L	91
40) Chlorobenzene SCAN	12.772	112	198670	4798.83 ug/L	89
41) 1,1,1,2-Tetrachloroeth...	12.923	131	70307	4588.89 ug/L	97
42) Ethylbenzene SCAN	13.169	91	536823	4863.55 ug/L	90
43) m&p-Xylene SCAN	13.169	91	536823	4863.55 ug/L	91
44) o-Xylene SCAN	13.789	91	283127	4792.10 ug/L	97
45) 1,1,2,2-Tetrachloroeth...	14.875	83	139369	4837.65 ug/L	99
46) 1,3,5-Trimethylbenzene...	15.348	105	296529	4762.26 ug/L	99
47) 1,2,4-Trimethylbenzene...	15.904	105	300697	4719.60 ug/L	94
48) Naphthalene SCAN	17.905	128	484176	5022.20 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192003.D
Acq On : 19 Nov 2020 9:09
InstName : AG5975C
Operator : TD
Sample : S20K085-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 09:28:33 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration



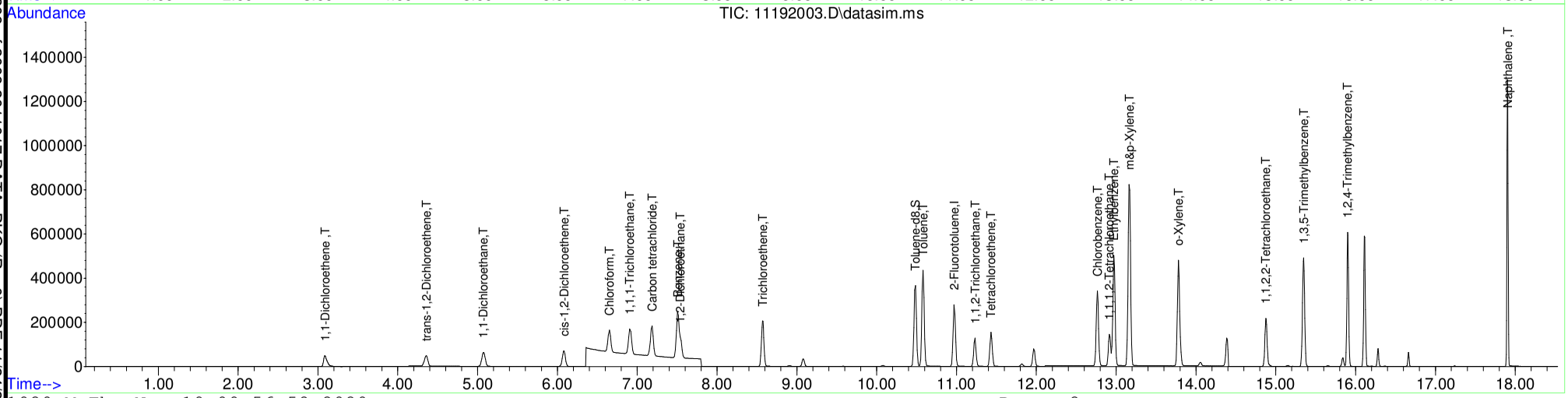


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Table of Contents

S20K085-CRL1

QLS REPORT

Instrument Name: AG5975C
Sample Name: S20K085-CRL1
Misc Info: 2030073 0.05 mg/L
Date Acquired: 11/19/20 9:33
QLast Update: Mon Nov 16 10:20:51 2020
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.970	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.086	50.0	48.24	96%	60	140	pass
3)	trans-1,2-Dichloroethene	4.343	50.0	46.07	92%	60	140	pass
4)	1,1-Dichloroethane	5.066	50.0	46.37	93%	60	140	pass
5)	cis-1,2-Dichloroethene	6.074	50.0	47.93	96%	60	140	pass
6)	Chloroform	6.639	50.0	47.02	94%	60	140	pass
7)	1,1,1-Trichloroethane	6.907	50.0	45.57	91%	60	140	pass
8)	Carbon tetrachloride	7.175	50.0	45.59	91%	60	140	pass
10)	1,2-Dichloroethane	7.540	50.0	44.75	90%	60	140	pass
11)	Trichloroethene	8.564	50.0	49.21	98%	60	140	pass
12)	Toluene-d8	10.477	50.0	50.00	100%	60	140	pass
13)	Toluene	10.571	50.0	50.88	102%	60	140	pass
14)	1,1,2-Trichloroethane	11.222	50.0	49.73	99%	60	140	pass
15)	Tetrachloroethene	11.432	50.0	52.31	105%	60	140	pass
16)	Chlorobenzene	12.765	50.0	53.89	108%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.916	50.0	51.59	103%	60	140	pass
18)	Ethylbenzene	12.972	50.0	53.73	107%	60	140	pass
19)	m&p-Xylene	13.163	100.0	108.49	108%	60	140	pass
20)	o-Xylene	13.782	50.0	53.07	106%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.877	50.0	54.25	108%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.345	50.0	57.86	116%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.901	50.0	60.07	120%	60	140	pass
24)	Naphthalene	17.903	50.0	59.76	120%	60	140	pass

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192004.D
Acq On : 19 Nov 2020 9:33
InstName : AG5975C
Operator : TD
Sample : S20K085-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 09:52:19 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

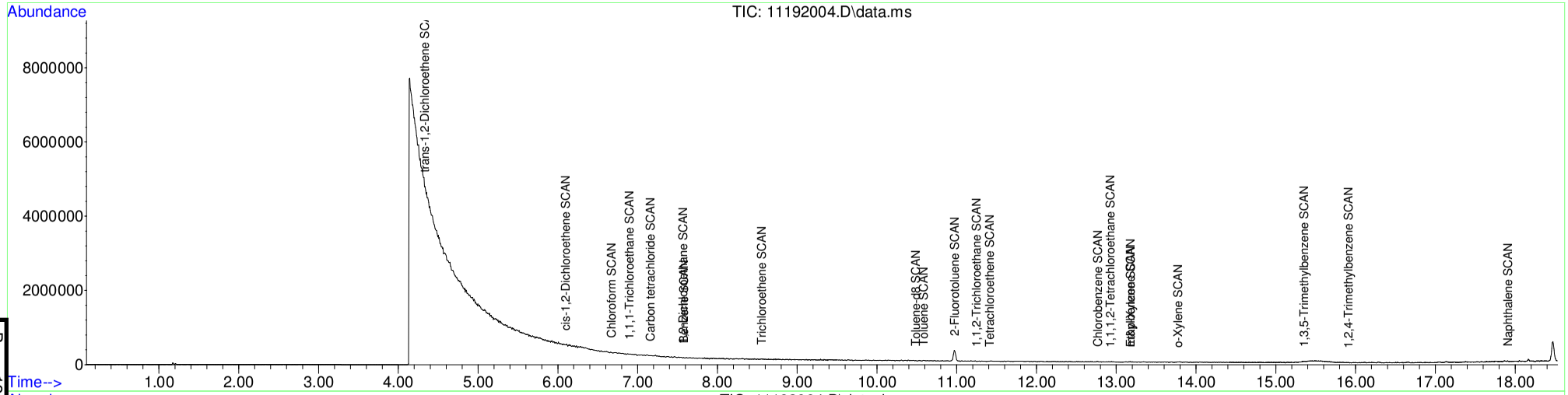
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	507664	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	4969	50.00	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 1.00%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.082	61	1434	70.74	ug/L	66
3] trans-1,2-Dichloroethene	4.356	61	1079	46.07	ug/L	52
4] 1,1-Dichloroethane	5.072	63	1352	46.37	ug/L	62
5] cis-1,2-Dichloroethene	6.081	61	1475	47.93	ug/L	97
6] Chloroform	6.652	83	1481	47.02	ug/L	97
7] 1,1,1-Trichloroethane	6.907	97	1559	45.57	ug/L	97
8] Carbon tetrachloride	7.175	117	1468	45.59	ug/L	100
9] Benzene	7.503	78	4370	50.66	ug/L #	1
10] 1,2-Dichloroethane	7.540	62	1378	44.75	ug/L #	1
11] Trichloroethene	8.569	130	1278	49.21	ug/L	91
13] Toluene	10.582	91	6447	50.88	ug/L	97
14] 1,1,2-Trichloroethane	11.232	97	1373	49.73	ug/L	92
15] Tetrachloroethene	11.432	166	1918	52.31	ug/L	99
16] Chlorobenzene	12.765	112	4889	53.89	ug/L	92
17] 1,1,1,2-Tetrachloroethane	12.916	131	1677	51.59	ug/L	98
18] Ethylbenzene	12.972	91	8286	53.73	ug/L	95
19] m&p-Xylene	13.162	91	13077	108.49	ug/L	95
20] o-Xylene	13.782	91	6834	53.07	ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.877	83	3096	54.25	ug/L	97
22] 1,3,5-Trimethylbenzene	15.350	105	7930	57.86	ug/L	95
23] 1,2,4-Trimethylbenzene	15.906	105	8552	60.07	ug/L	92
24] Naphthalene	17.904	128	13448	59.76	ug/L	97
25) 2-Fluorotoluene SCAN	10.969	109	237124	4791.56	ug/L	100
27) trans-1,2-Dichloroethe...	4.328	61	1194	91.81	ug/L #	17
29) cis-1,2-Dichloroethene...	6.093	61	499	30.94	ug/L #	1
30) Chloroform SCAN	6.675	83	558	31.90	ug/L #	27
31) 1,1,1-Trichloroethane ...	6.894	97	481	30.18	ug/L #	19
32) Carbon tetrachloride SCAN	7.161	117	429	25.80	ug/L #	13
33) Benzene SCAN	7.575	78	8401	191.43	ug/L	92
34) 1,2-Dichloroethane SCAN	7.563	62	914	56.40	ug/L #	40
35) Trichloroethene SCAN	8.557	130	378	31.34	ug/L #	40
36) Toluene-d8 SCAN	10.486	98	1459	30.15	ug/L #	29
37) Toluene SCAN	10.580	91	3645	58.81	ug/L #	70
38) 1,1,2-Trichloroethane ...	11.242	97	987	70.95	ug/L	89
39) Tetrachloroethene SCAN	11.409	166	658	44.19	ug/L #	12
40) Chlorobenzene SCAN	12.764	112	4308	101.72	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.923	131	997	63.61	ug/L #	3
42) Ethylbenzene SCAN	13.177	91	5801	51.37	ug/L	87
43) m&p-Xylene SCAN	13.177	91	5801	51.37	ug/L	84
44) o-Xylene SCAN	13.773	91	4118	68.13	ug/L	77
46) 1,3,5-Trimethylbenzene...	15.348	105	3922	61.57	ug/L	89
47) 1,2,4-Trimethylbenzene...	15.904	105	4280	65.67	ug/L #	80
48) Naphthalene SCAN	17.906	128	5951	60.34	ug/L	76

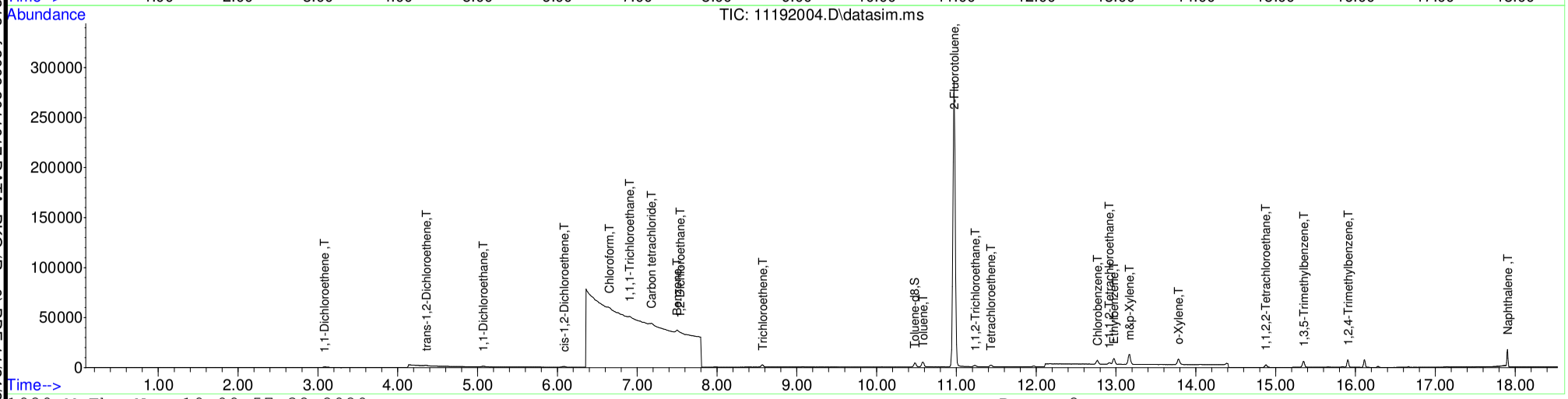
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192004.D
Acq On : 19 Nov 2020 9:33
InstName : AG5975C
Operator : TD
Sample : S20K085-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 09:52:19 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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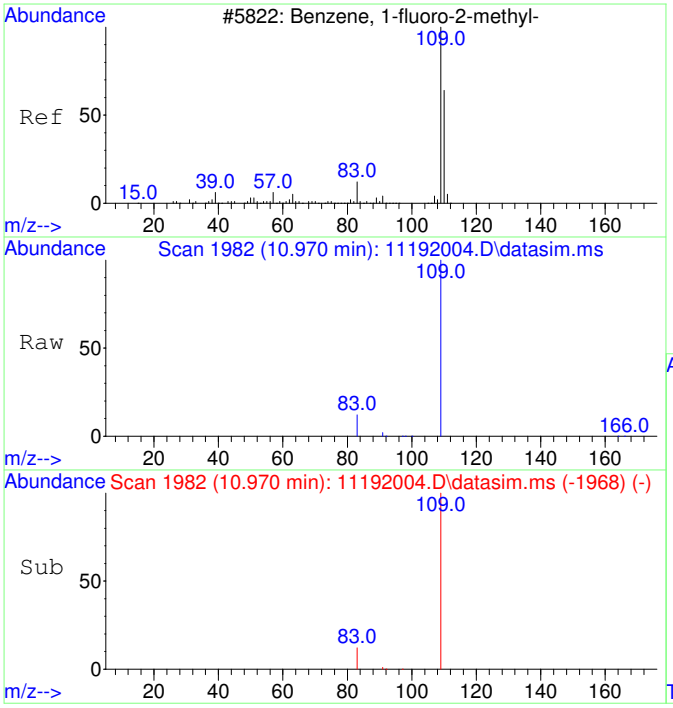
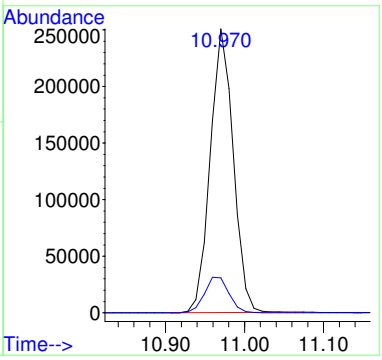
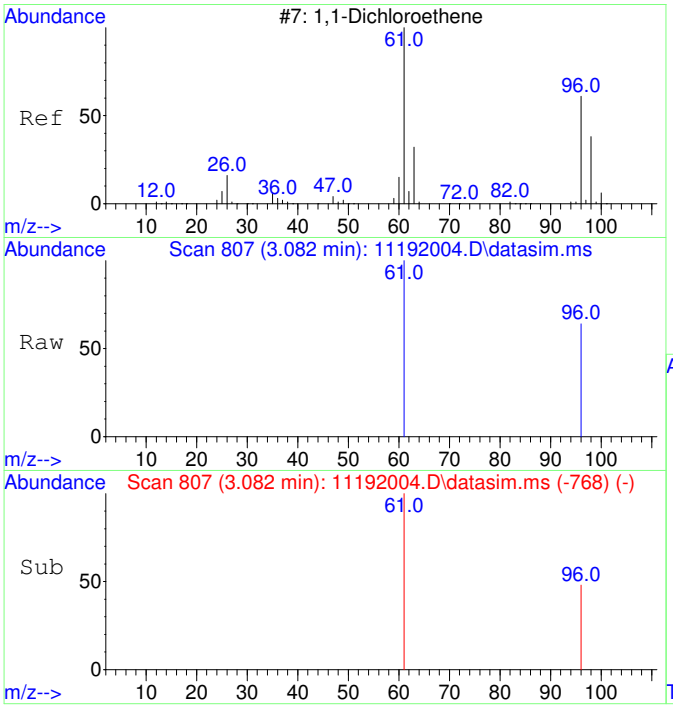


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:109 Resp: 507664

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

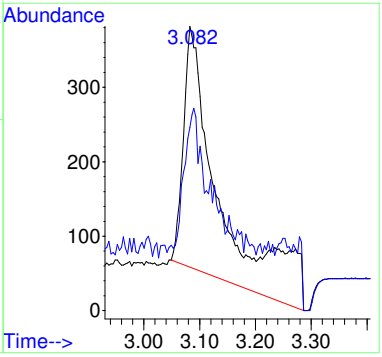




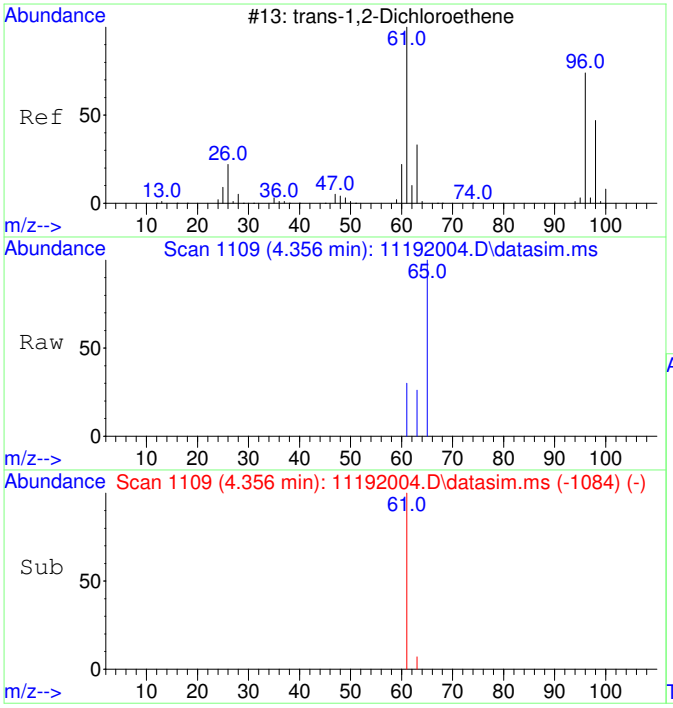
#2
1,1-Dichloroethene
Concen: 70.74 ug/L
RT: 3.082 min Scan# 807
Delta R.T. -0.004 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 1434

Ion	Ratio	Lower	Upper
61	100		
96	39.7	37.2	97.2



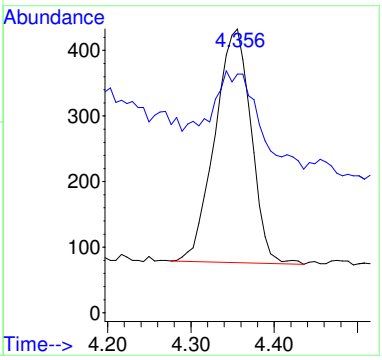
Before MI:
IMPROPER
BASELINE

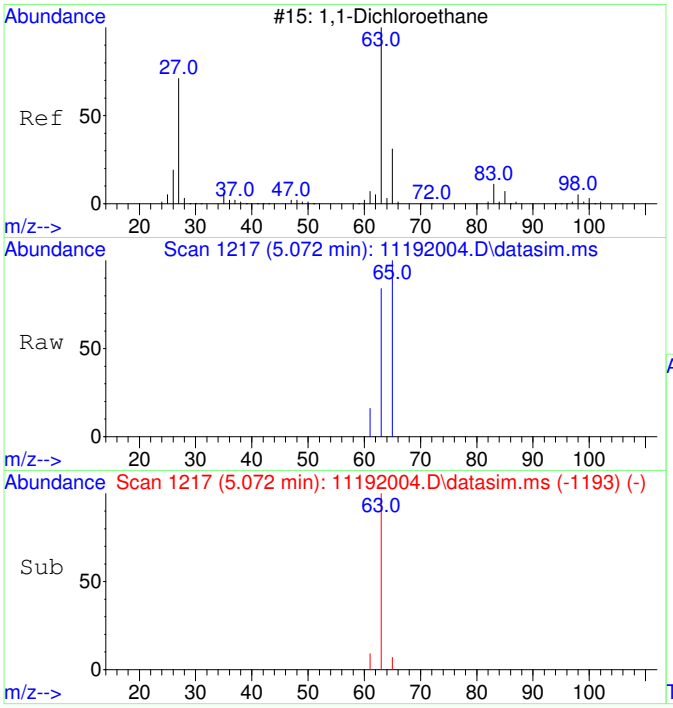


#3
trans-1,2-Dichloroethene
Concen: 46.07 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 1079

Ion	Ratio	Lower	Upper
61	100		
63	59.4	2.4	62.4

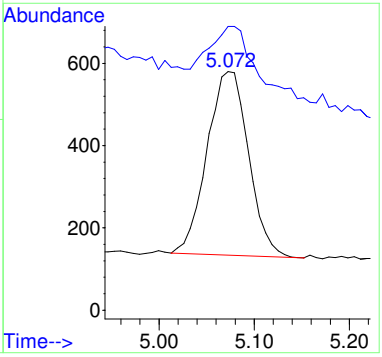


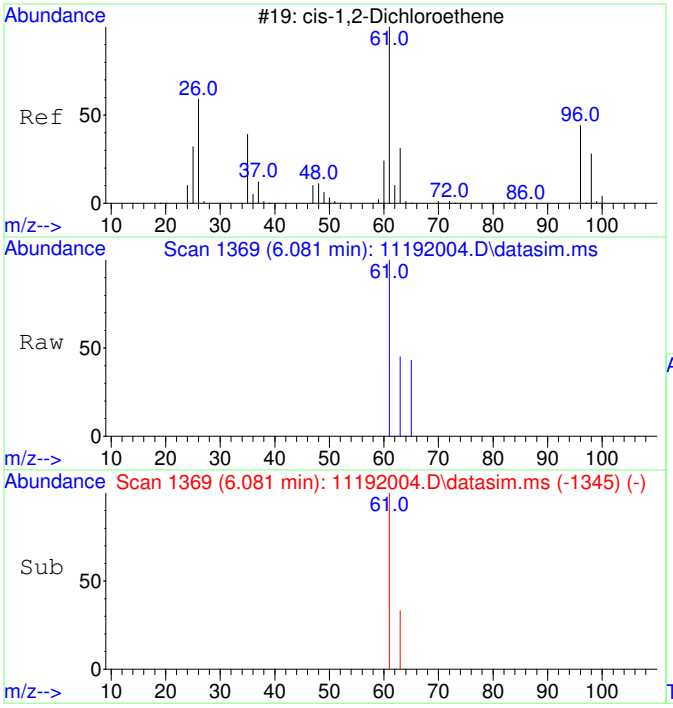


#4
1,1-Dichloroethane
Concen: 46.37 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 63 Resp: 1352

Ion	Ratio	Lower	Upper
63	100		
65	52.9	1.8	61.8

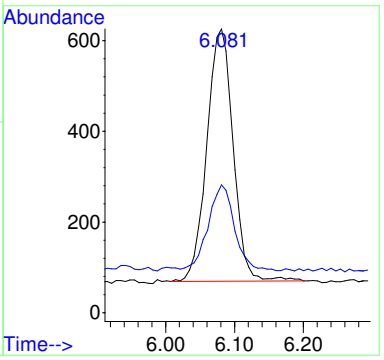


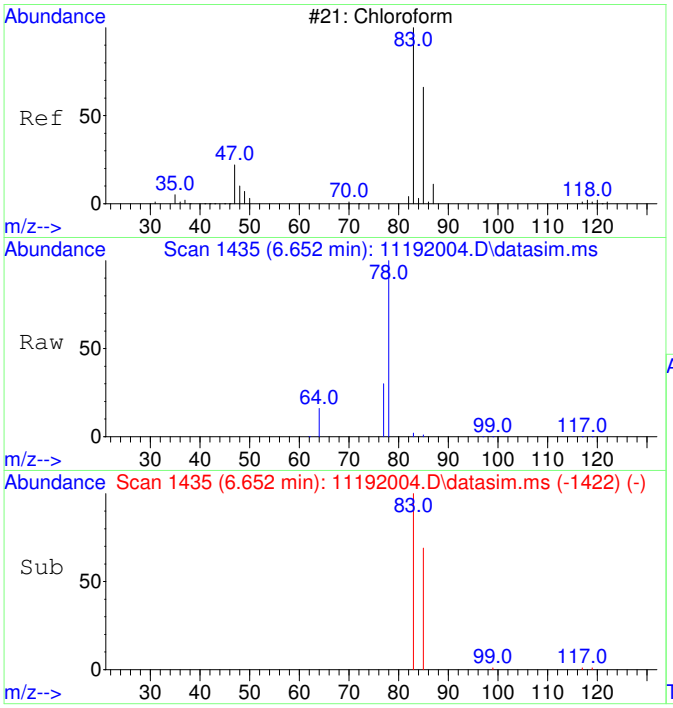


#5
cis-1,2-Dichloroethene
Concen: 47.93 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 1475

Ion	Ratio	Lower	Upper
61	100		
63	34.0	2.5	62.5

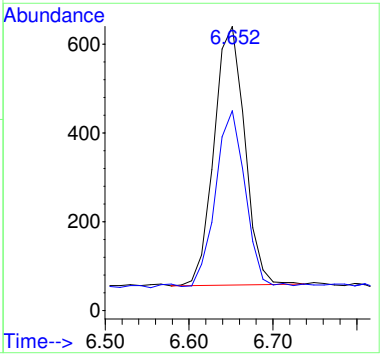


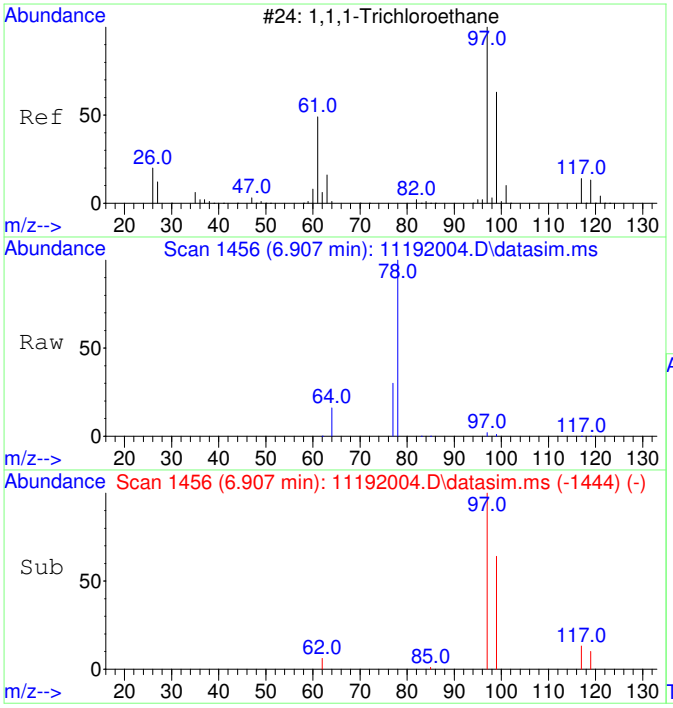


#6
Chloroform
Concen: 47.02 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 83 Resp: 1481

Ion	Ratio	Lower	Upper
83	100		
85	67.7	35.1	95.1

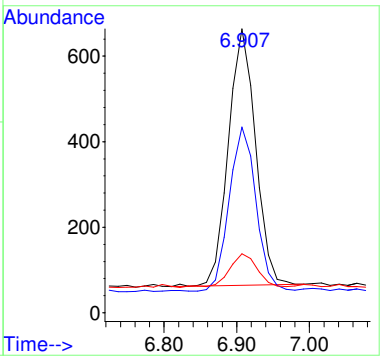


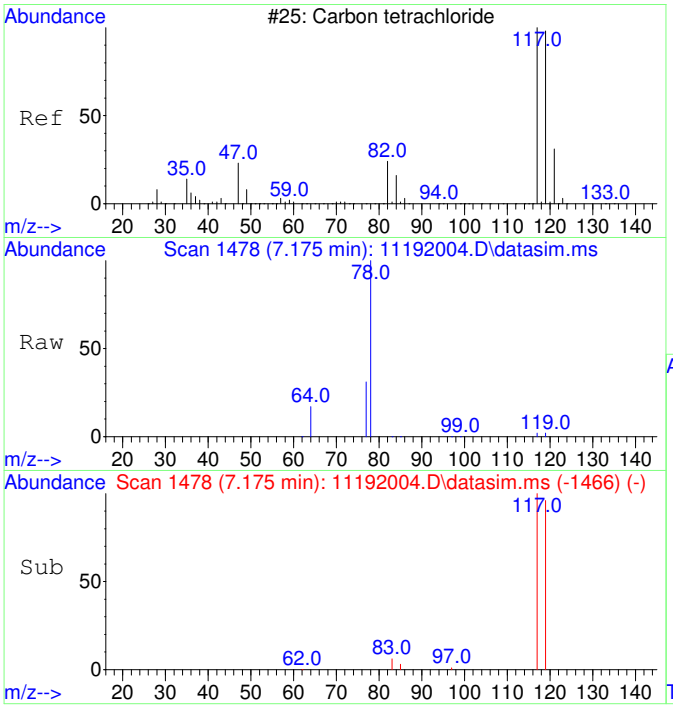


#7
1,1,1-Trichloroethane
Concen: 45.57 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 1559

Ion	Ratio	Lower	Upper
97	100		
99	62.3	34.6	94.6
117	13.9	0.0	43.2

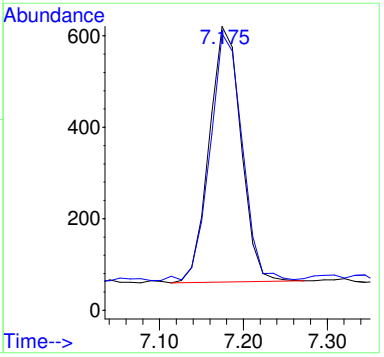


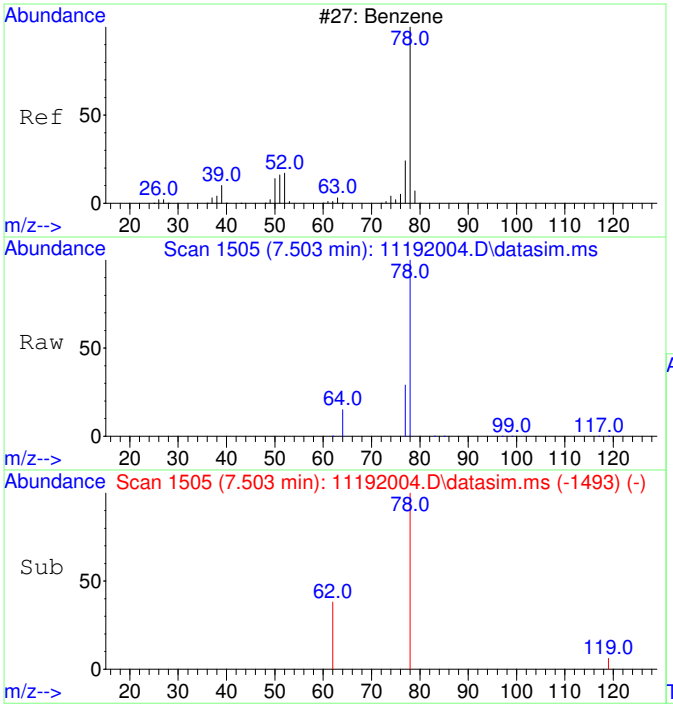


#8
Carbon tetrachloride
Concen: 45.59 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:117 Resp: 1468

Ion	Ratio	Lower	Upper
117	100		
119	96.7	66.4	126.4

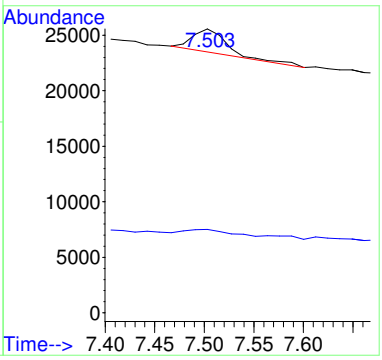


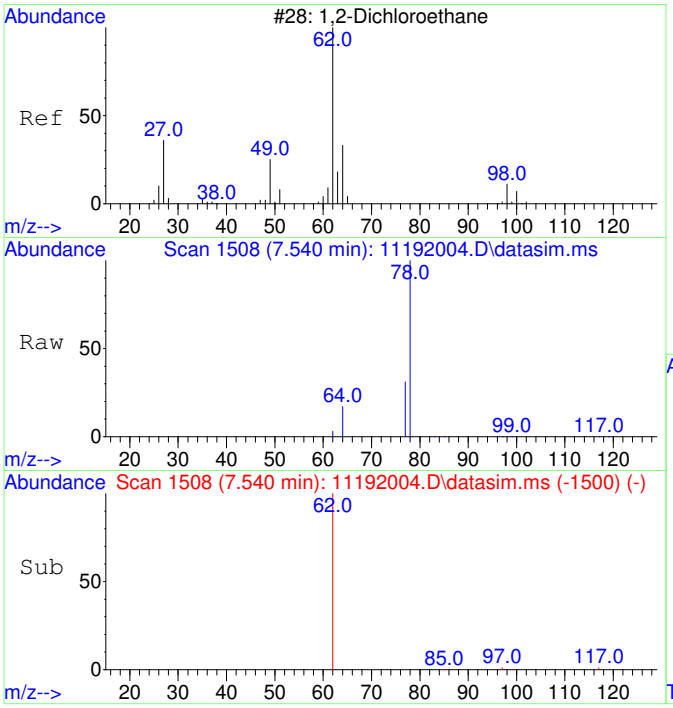


#9
Benzene
Concen: 50.66 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 78 Resp: 4370

Ion	Ratio	Lower	Upper
78	100		
77	89.0	0.0	53.2#

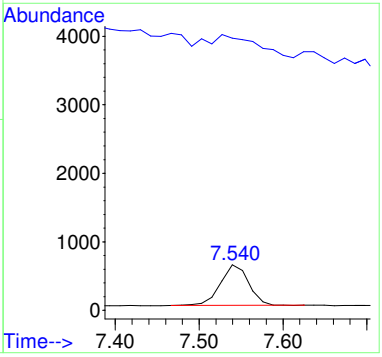


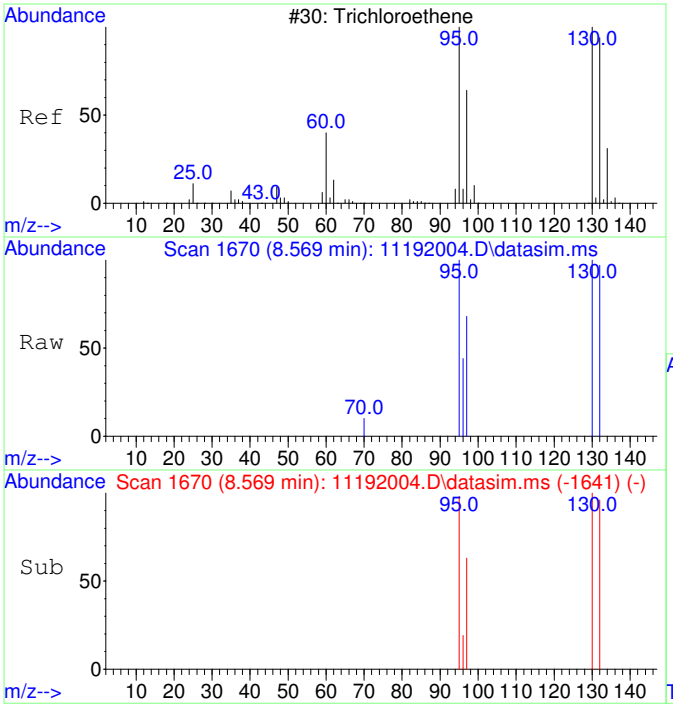


#10
1,2-Dichloroethane
Concen: 44.75 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 62 Resp: 1378

Ion	Ratio	Lower	Upper
62	100		
64	99.3	2.3	62.3#

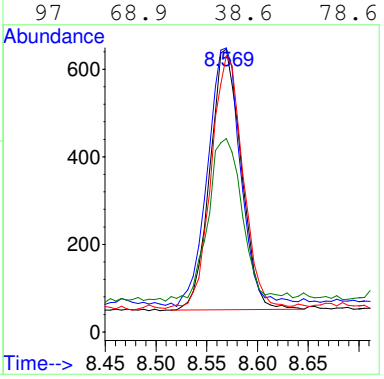


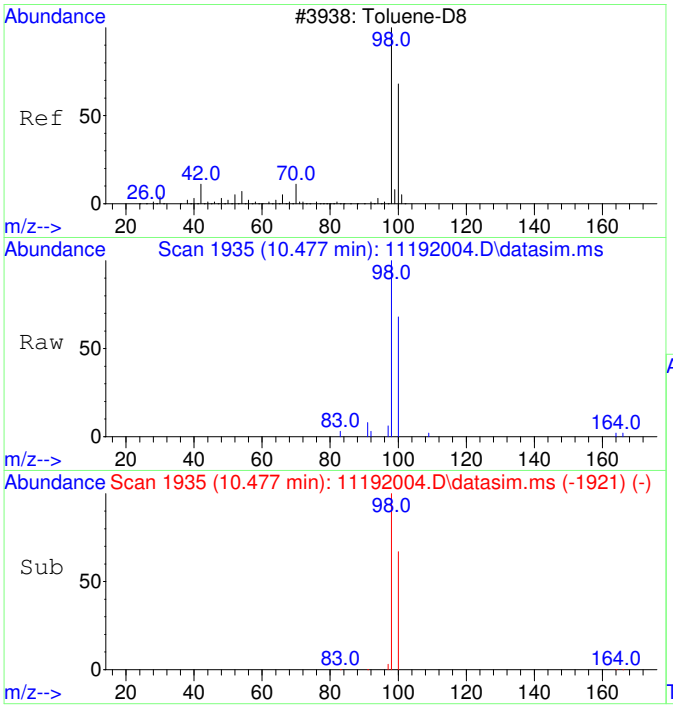


#11
Trichloroethene
Concen: 49.21 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:130 Resp: 1278

Ion	Ratio	Lower	Upper
130	100		
95	103.8	60.7	120.7
132	96.6	76.0	116.0
97	68.9	38.6	78.6

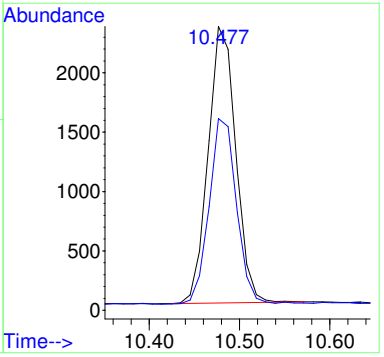


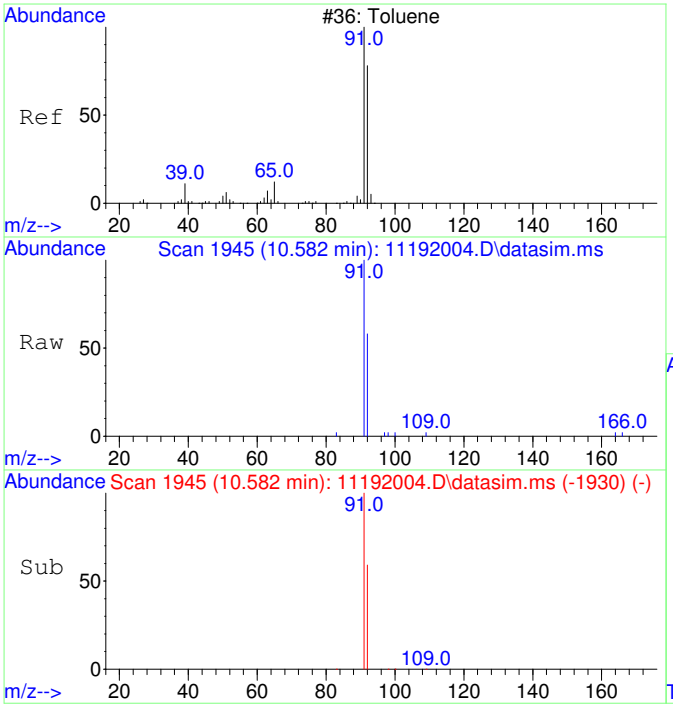


#12
Toluene-d8
Concen: 50.00 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 98 Resp: 4969

Ion	Ratio	Lower	Upper
98	100		
100	65.8	37.1	97.1

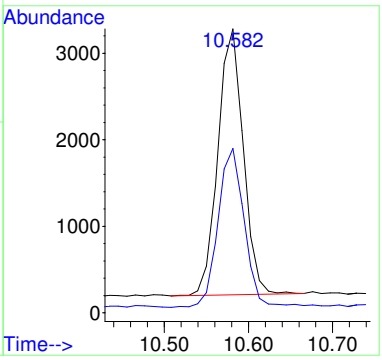


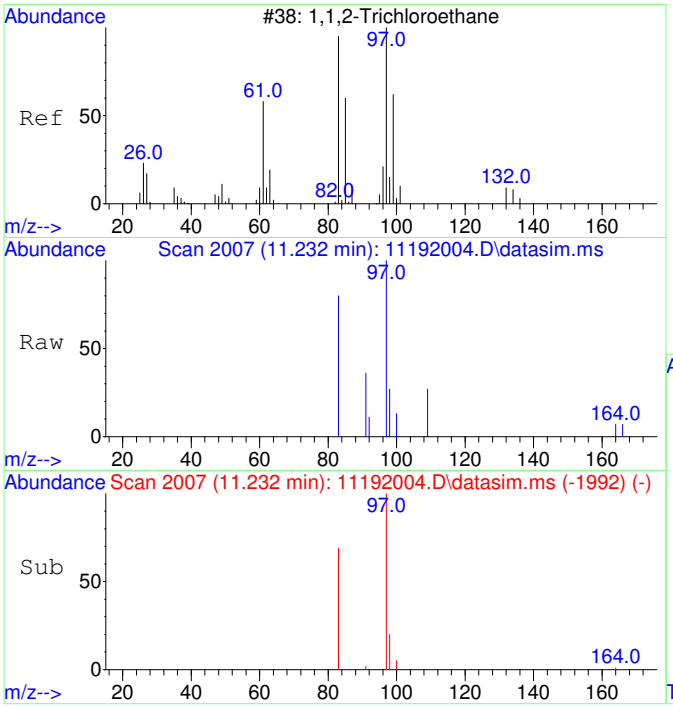


#13
Toluene
Concen: 50.88 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 6447

Ion	Ratio	Lower	Upper
91	100		
92	61.9	29.9	89.9

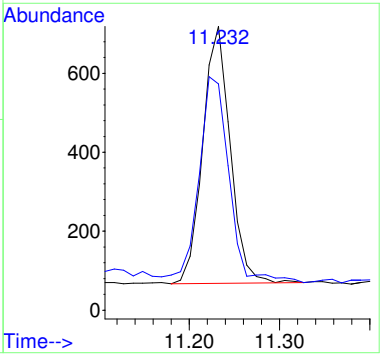


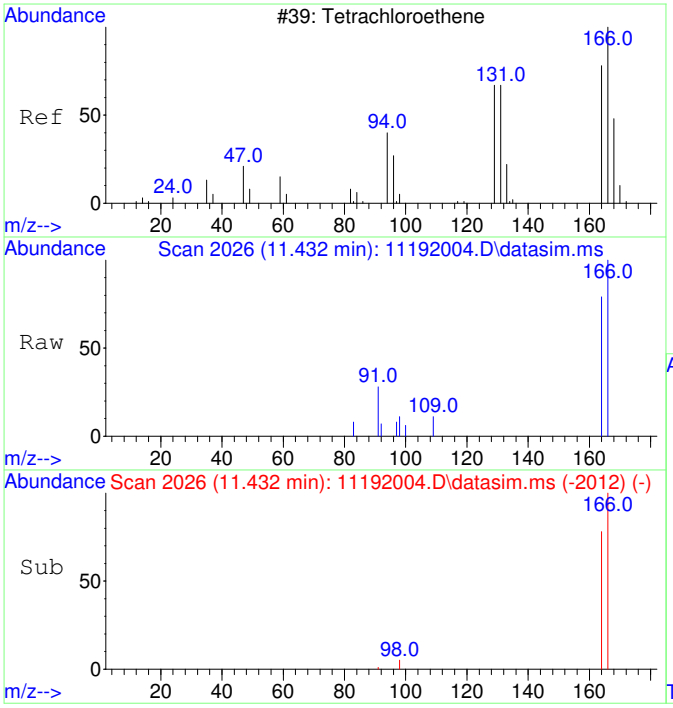


#14
1,1,2-Trichloroethane
Concen: 49.73 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 1373

Ion	Ratio	Lower	Upper
97	100		
83	88.0	51.2	111.2

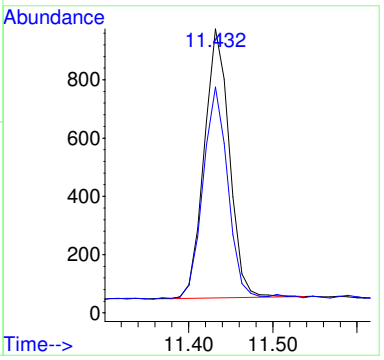


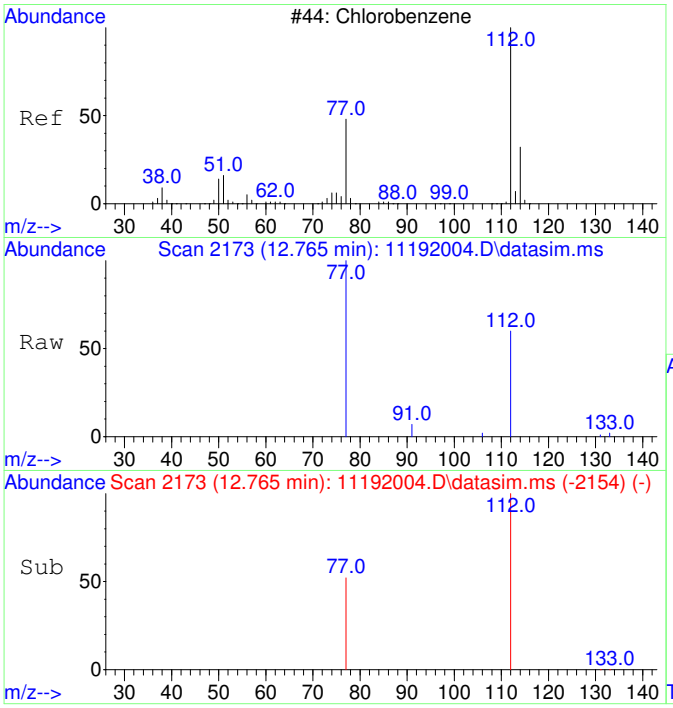


#15
Tetrachloroethene
Concen: 52.31 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:166 Resp: 1918

Ion	Ratio	Lower	Upper
166	100		
164	78.3	47.8	107.8

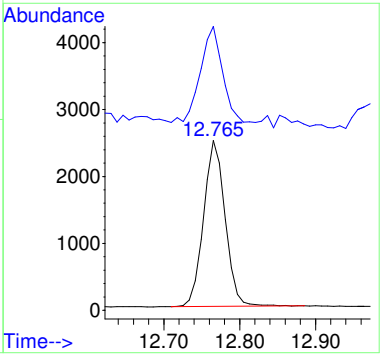


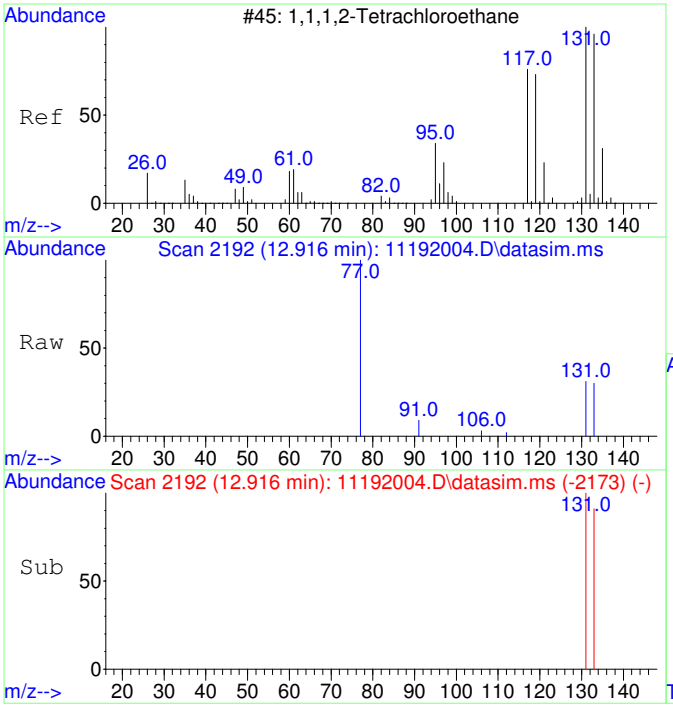


#16
Chlorobenzene
Concen: 53.89 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:112 Resp: 4889

Ion	Ratio	Lower	Upper
112	100		
77	59.0	23.6	83.6

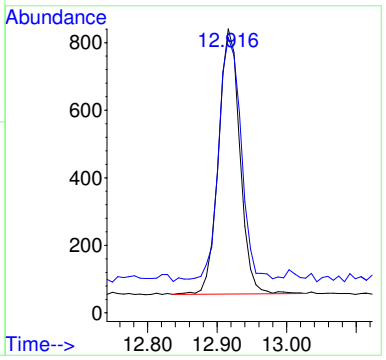


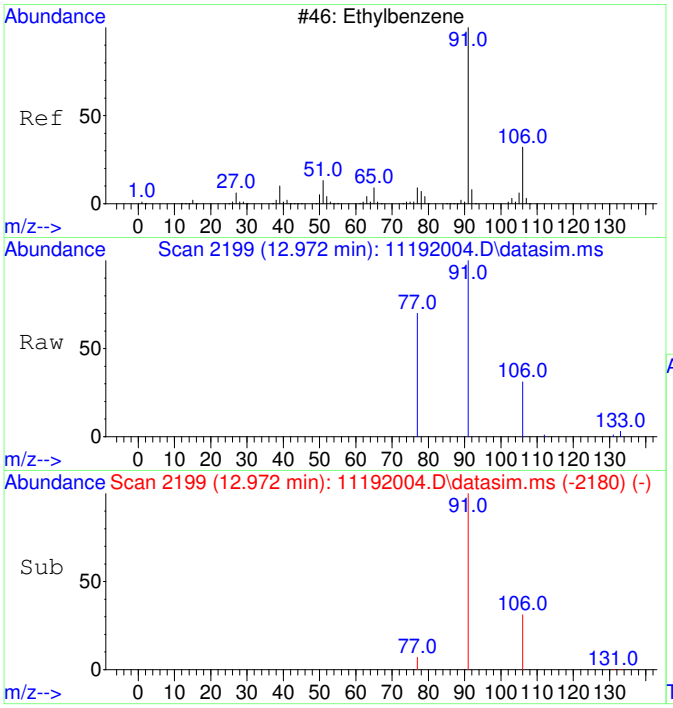


#17
1,1,1,2-Tetrachloroethane
Concen: 51.59 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:131 Resp: 1677

Ion	Ratio	Lower	Upper
131	100		
133	94.1	66.3	126.3

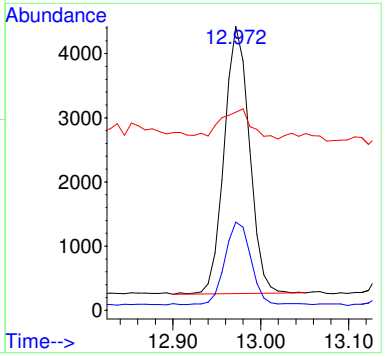


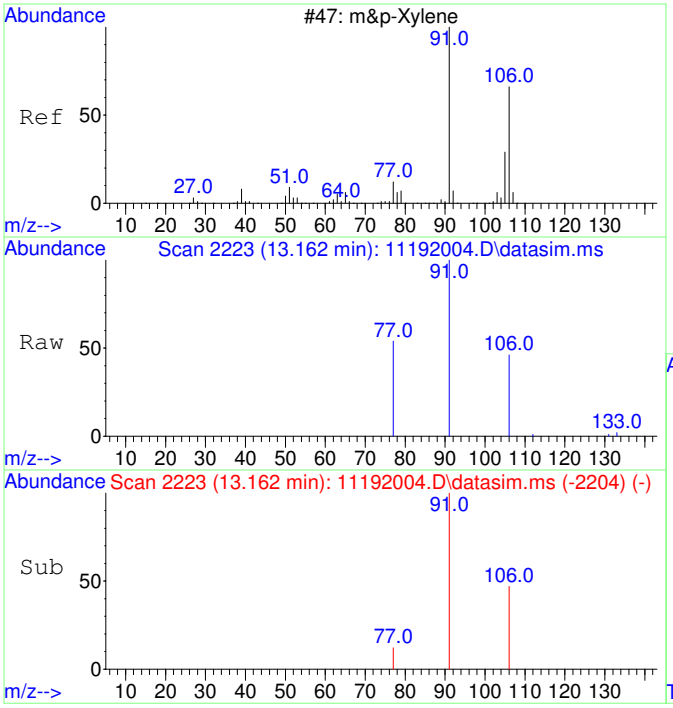


#18
Ethylbenzene
Concen: 53.73 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 8286

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	13.7	0.0	38.2

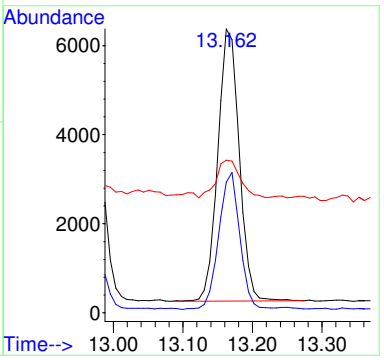


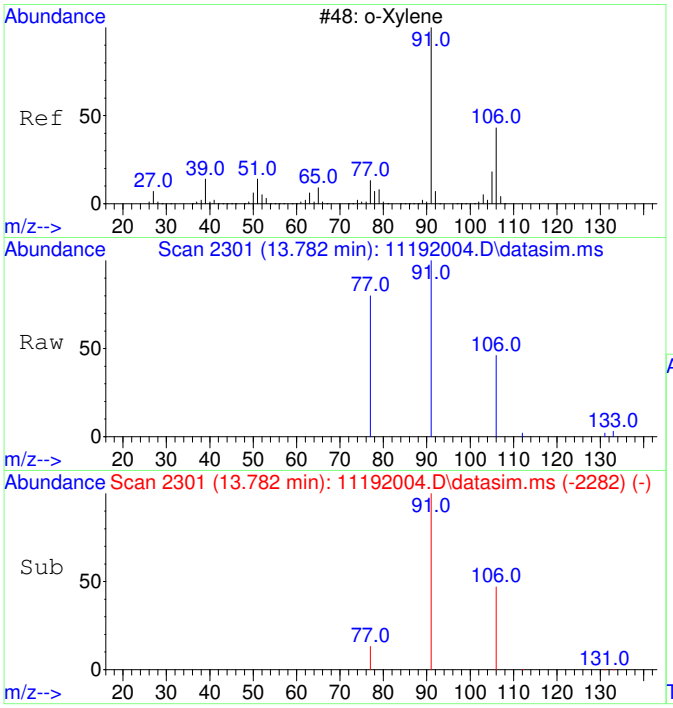


#19
m&p-Xylene
Concen: 108.49 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 13077

Ion	Ratio	Lower	Upper
91	100		
106	49.4	22.2	82.2
77	15.3	0.0	42.4

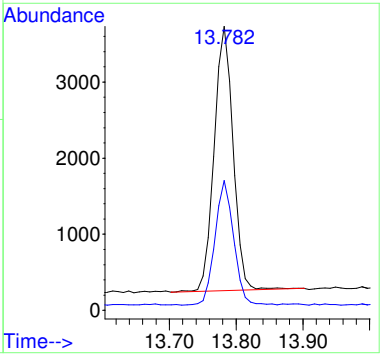


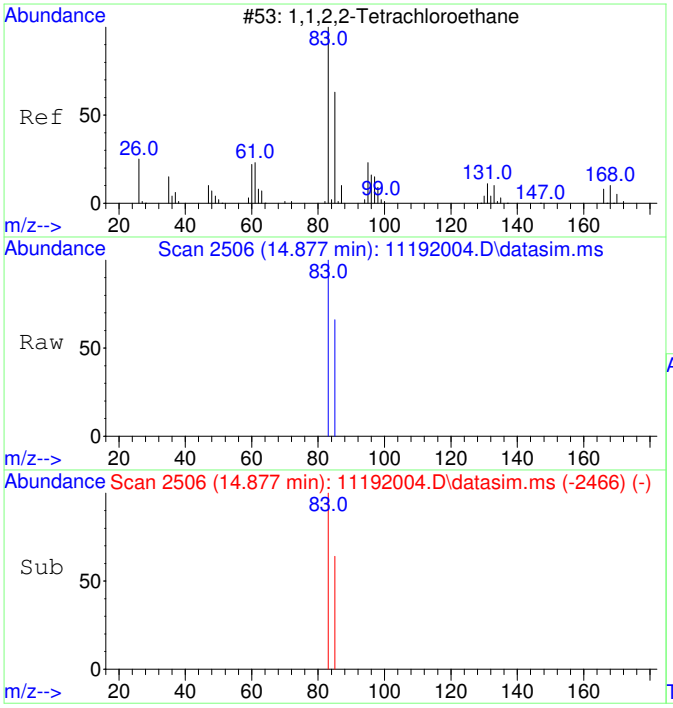


#20
o-Xylene
Concen: 53.07 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 6834

Ion	Ratio	Lower	Upper
91	100		
106	46.5	19.2	79.2

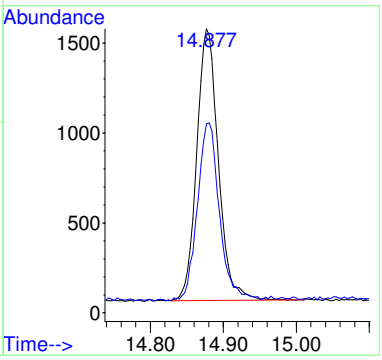


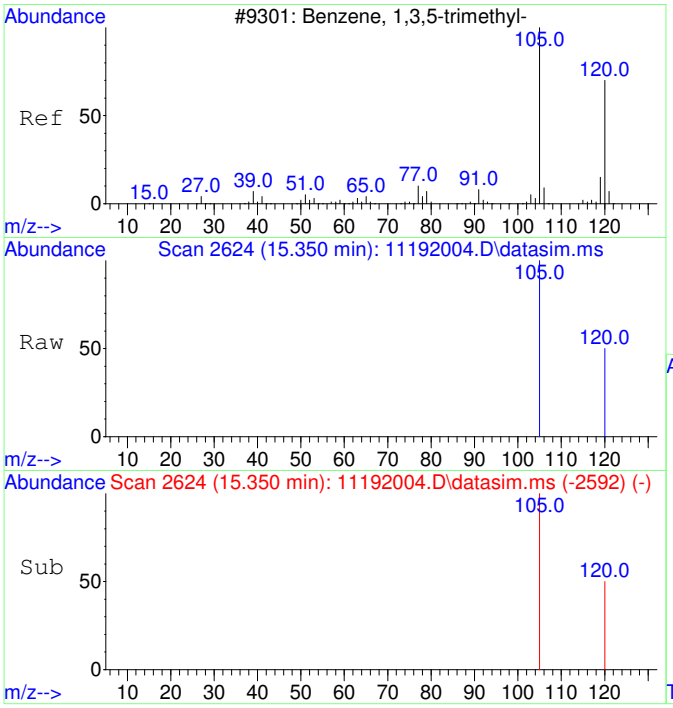


#21
1,1,2,2-Tetrachloroethane
Concen: 54.25 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 83 Resp: 3096

Ion	Ratio	Lower	Upper
83	100		
85	67.3	34.8	94.8

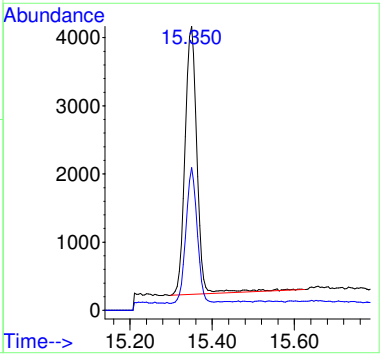


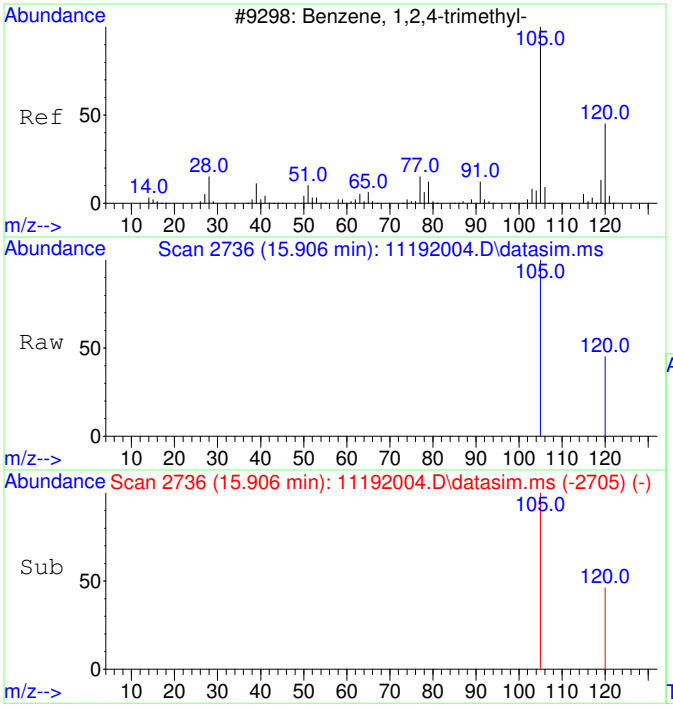


#22
1,3,5-Trimethylbenzene
Concen: 57.86 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 7930

Ion	Ratio	Lower	Upper
105	100		
120	47.8	21.1	81.1

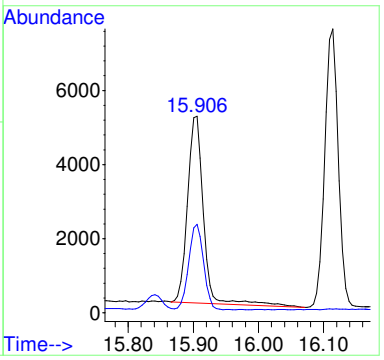


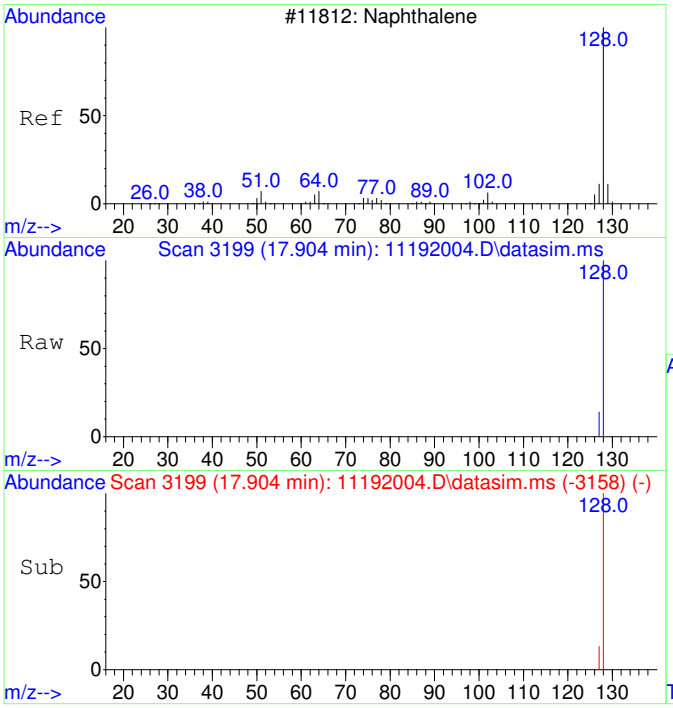


#23
1,2,4-Trimethylbenzene
Concen: 60.07 ug/L
RT: 15.906 min Scan# 2736
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 8552

Ion	Ratio	Lower	Upper
105	100		
120	41.8	17.2	77.2

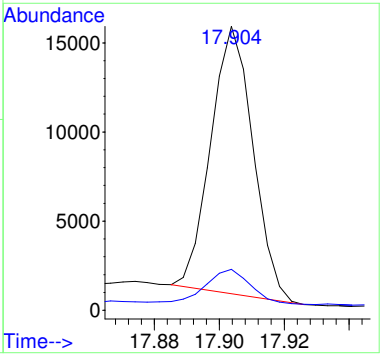


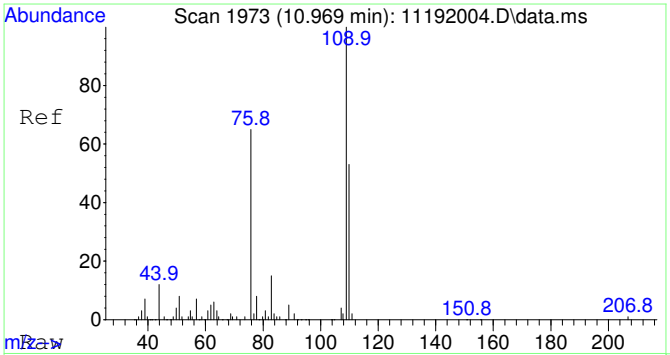


#24
Naphthalene
Concen: 59.76 ug/L
RT: 17.904 min Scan# 3199
Delta R.T. 0.001 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:128 Resp: 13448

Ion	Ratio	Lower	Upper
128	100		
127	13.5	0.0	42.5

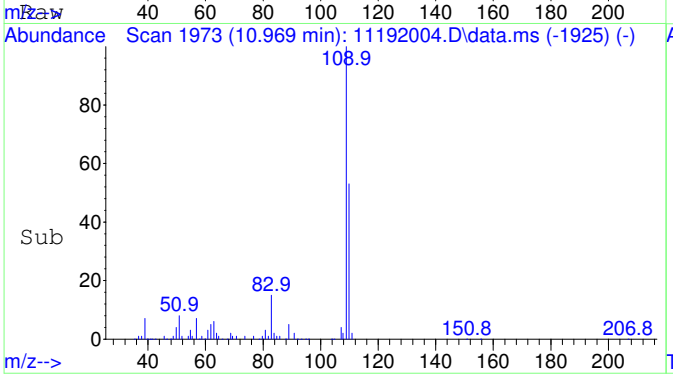


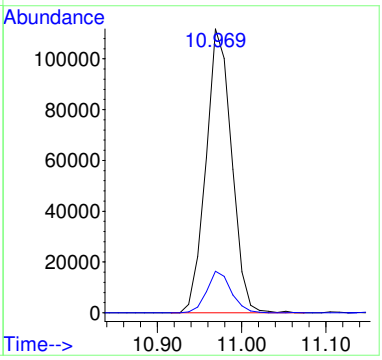


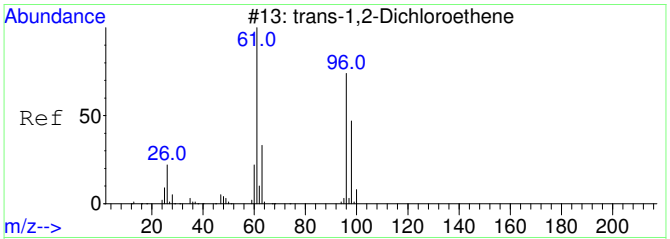
#25
2-Fluorotoluene SCAN
Concen: 4791.56 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:109 Resp: 237124

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	43.8



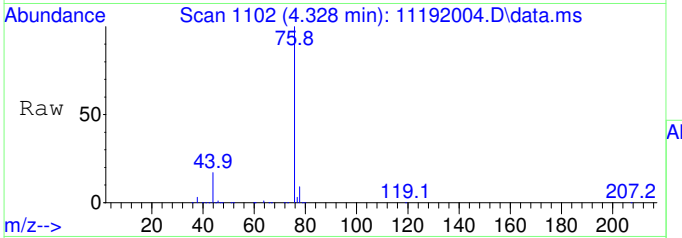


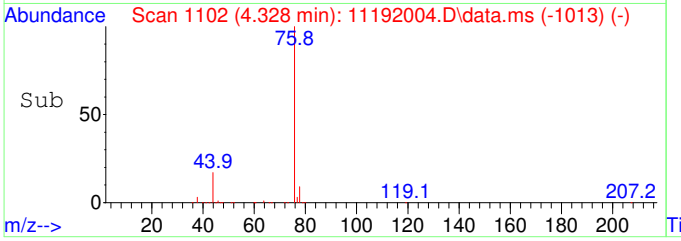


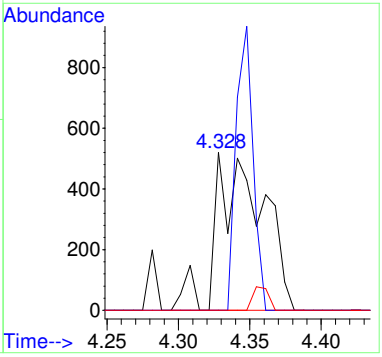
#27
trans-1,2-Dichloroethene SCAN
Concen: 91.81 ug/L
RT: 4.328 min Scan# 1102
Delta R.T. -0.020 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

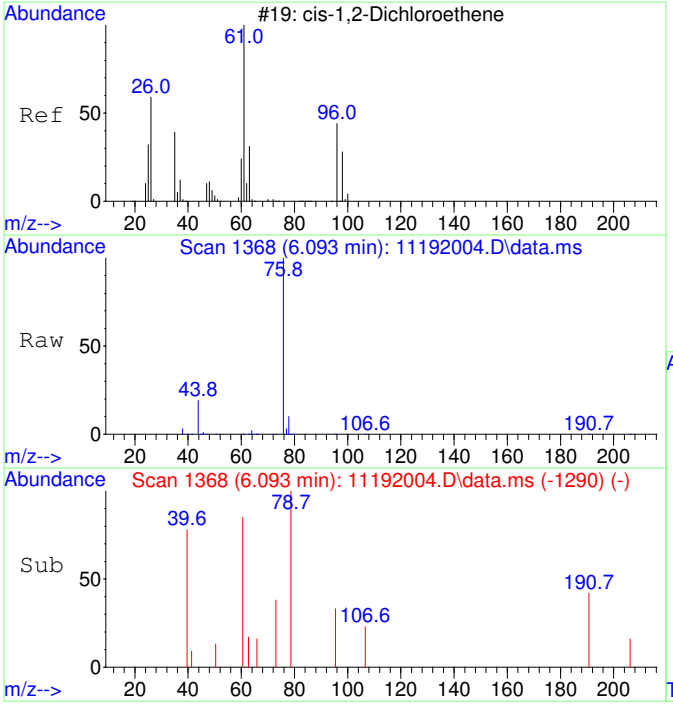
Tgt Ion: 61 Resp: 1194

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	0.0	20.5	80.5#





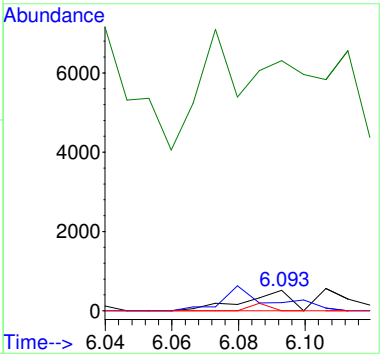


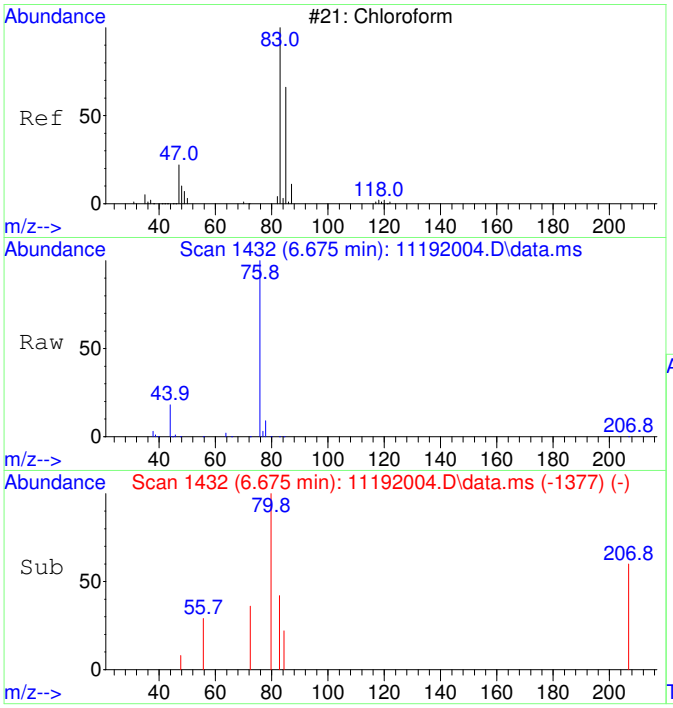


#29
cis-1,2-Dichloroethene SCAN
Concen: 30.94 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 499

Ion	Ratio	Lower	Upper
61	100		
96	126.1	39.9	99.9#
98	15.2	13.5	73.5
64	1188.2	4.5	64.5#

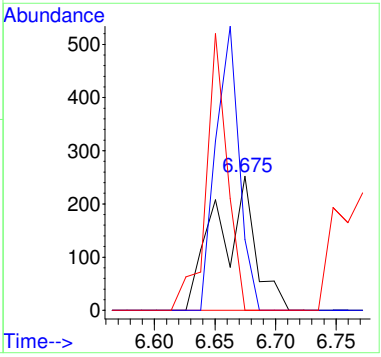


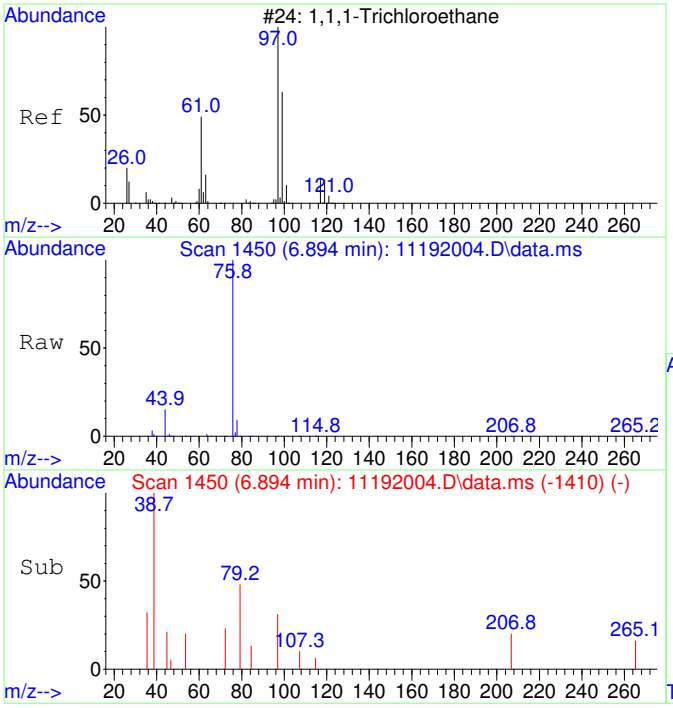


#30
Chloroform SCAN
Concen: 31.90 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.024 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 83 Resp: 558

Ion	Ratio	Lower	Upper
83	100		
85	128.9	34.6	94.6#
47	0.0	0.0	53.4

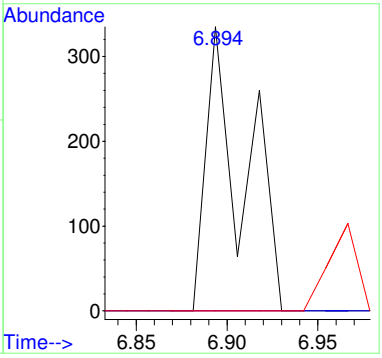


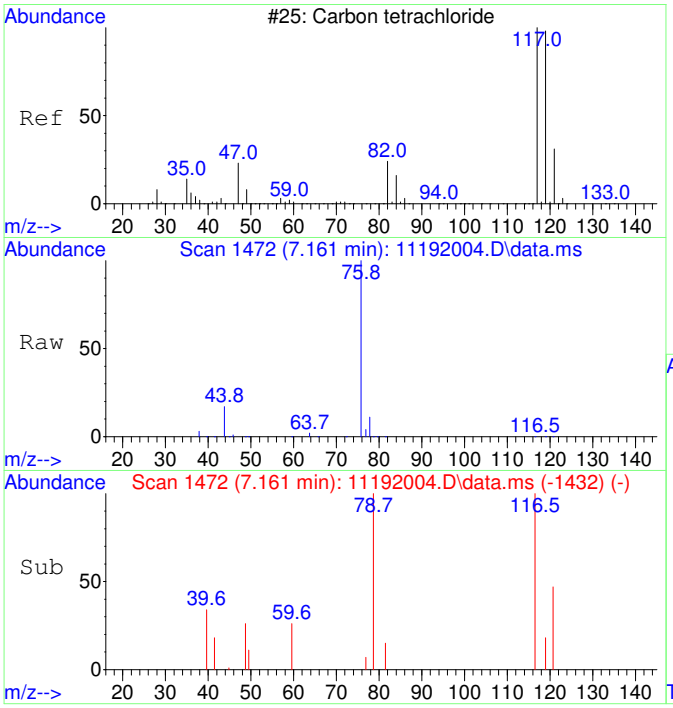


#31
1,1,1-Trichloroethane SCAN
Concen: 30.18 ug/L
RT: 6.894 min Scan# 1450
Delta R.T. -0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 481

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	0.0	18.0	78.0#

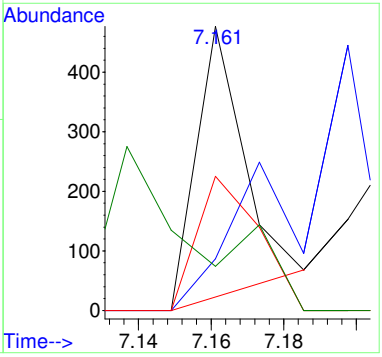


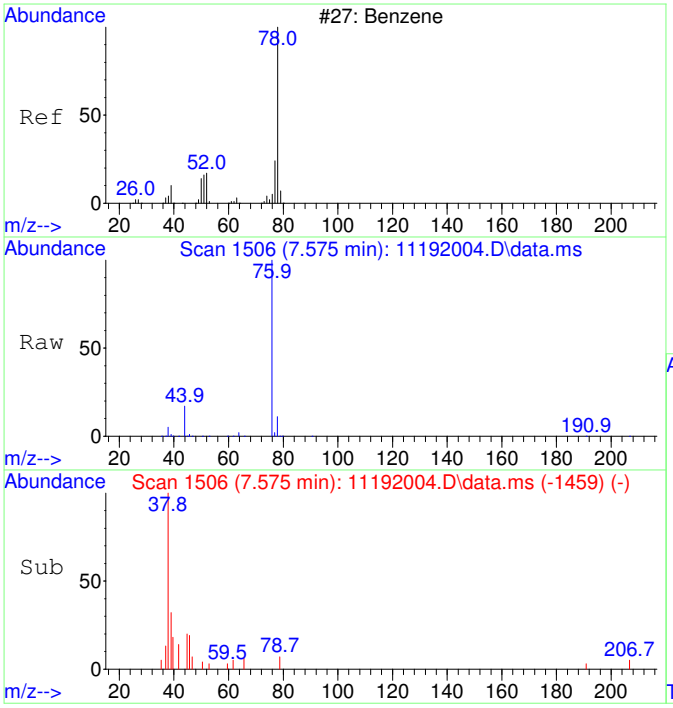


#32
Carbon tetrachloride SCAN
Concen: 25.80 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:117 Resp: 429

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	62.0	0.0	58.8#
82	0.0	0.0	59.2

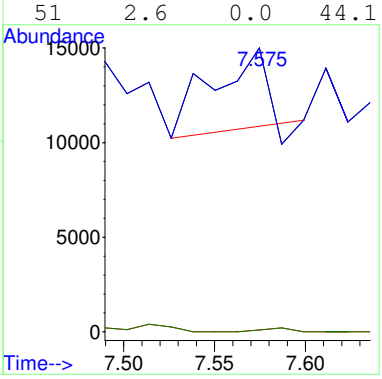


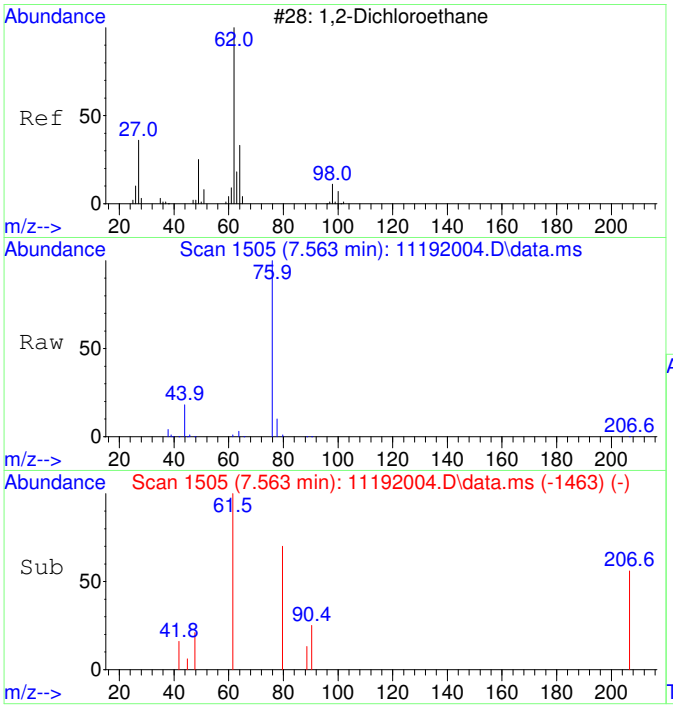


#33
Benzene SCAN
Concen: 191.43 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. 0.073 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 78 Resp: 8401

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	2.6	0.0	47.9
51	2.6	0.0	44.1

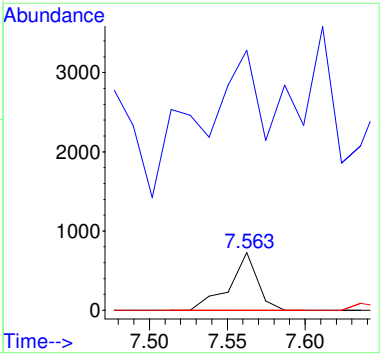


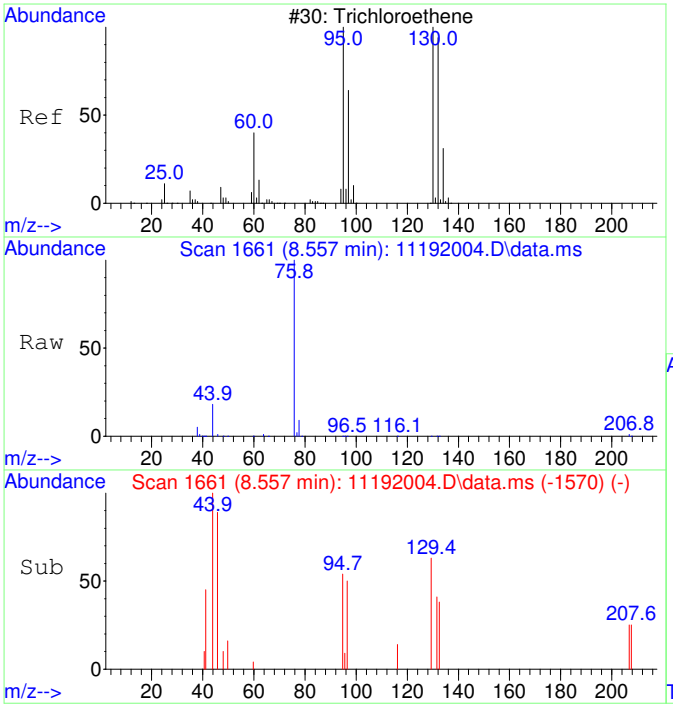


#34
1,2-Dichloroethane SCAN
Concen: 56.40 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 62 Resp: 914

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	0.0	3.9	63.9#

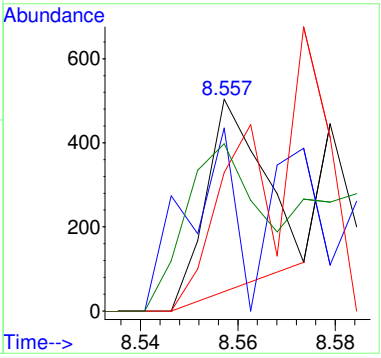


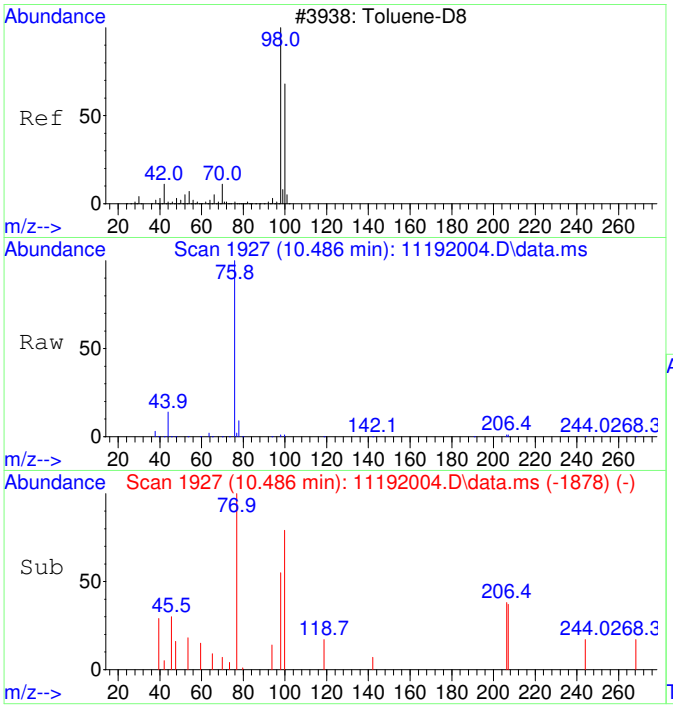


#35
Trichloroethene SCAN
Concen: 31.34 ug/L
RT: 8.557 min Scan# 1661
Delta R.T. -0.006 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:130 Resp: 378

Ion	Ratio	Lower	Upper
130	100		
95	77.2	60.5	120.5
132	0.0	59.6	119.6#
97	0.0	28.2	88.2#

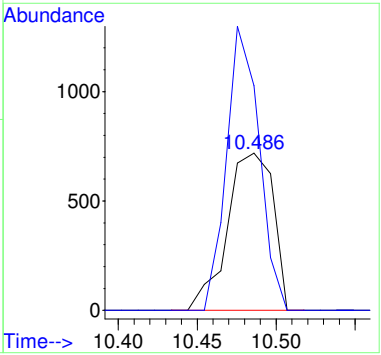


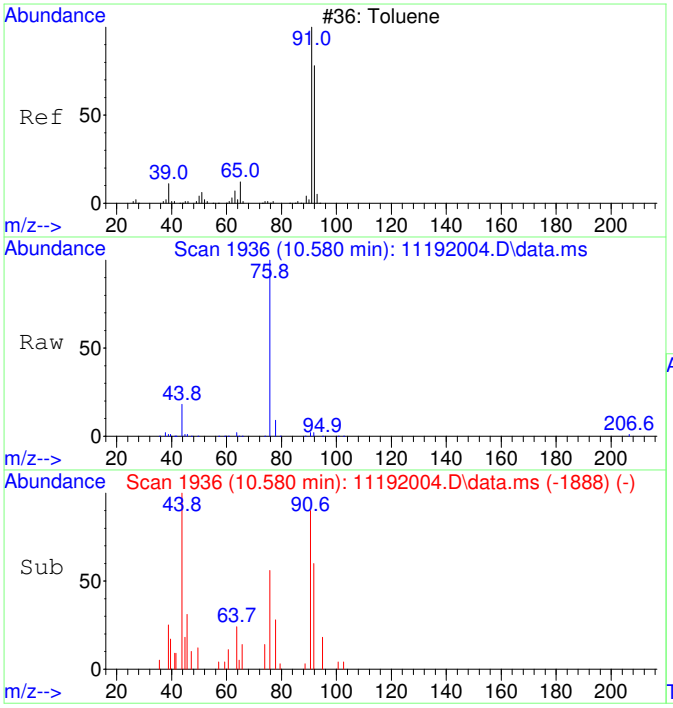


#36
Toluene-d8 SCAN
Concen: 30.15 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 98 Resp: 1459

Ion	Ratio	Lower	Upper
98	100		
100	128.1	40.0	100.0#

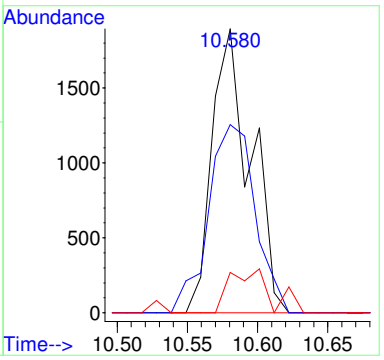


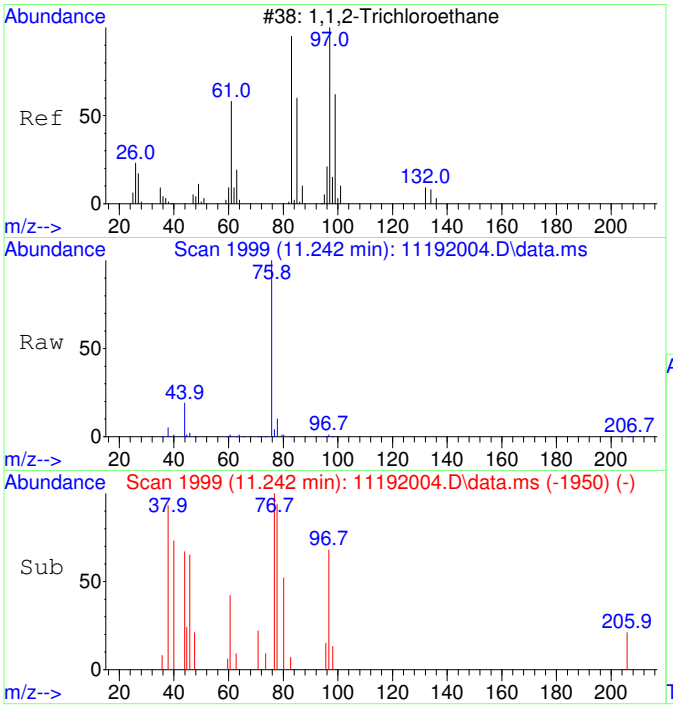


#37
Toluene SCAN
Concen: 58.81 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 3645

Ion	Ratio	Lower	Upper
91	100		
92	80.5	28.3	88.3
65	0.0	0.0	41.0

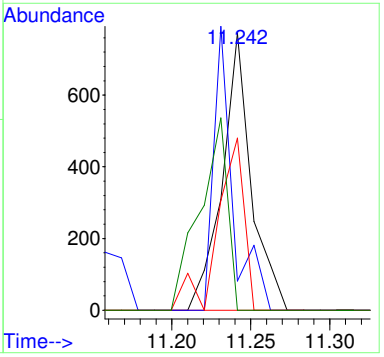


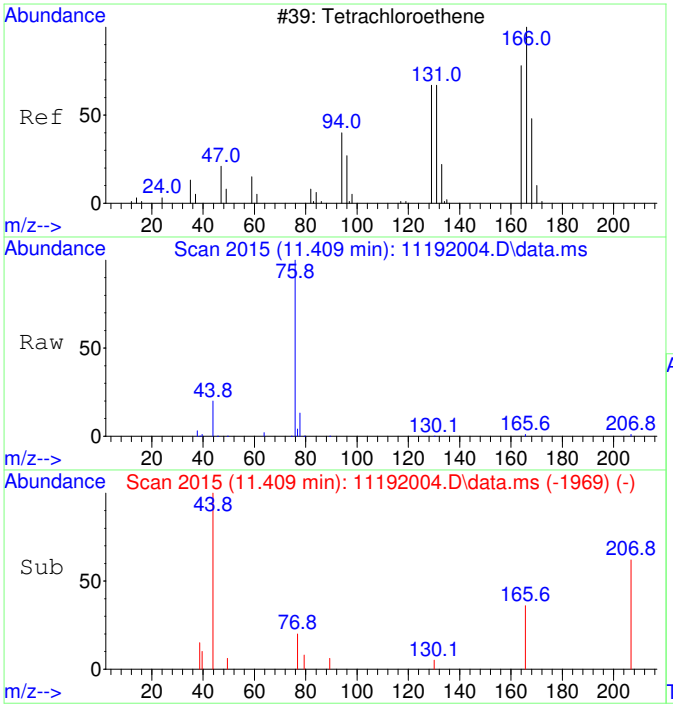


#38
1,1,2-Trichloroethane SCAN
Concen: 70.95 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 987

Ion	Ratio	Lower	Upper
97	100		
83	67.3	57.7	117.7
61	56.7	32.1	92.1
99	66.7	36.7	96.7

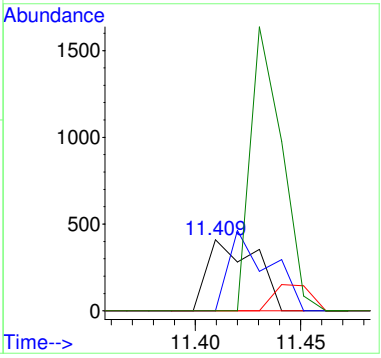


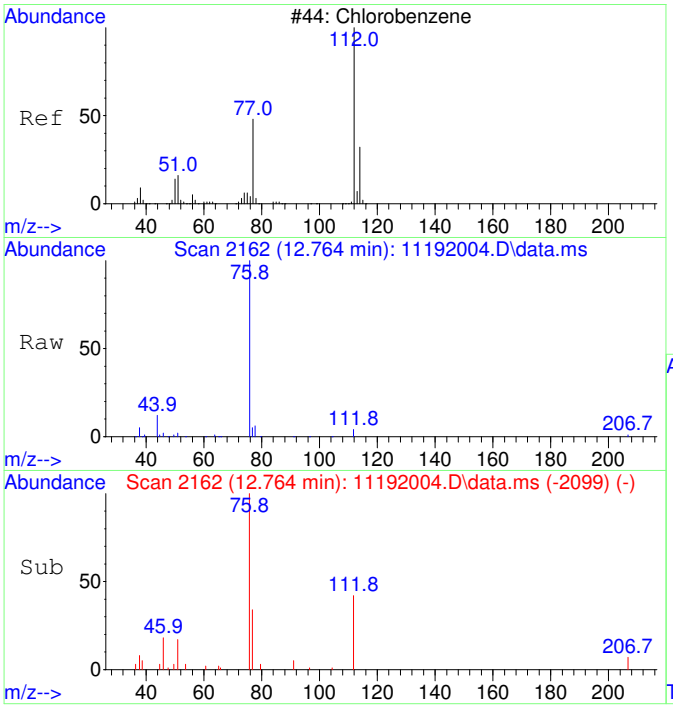


#39
Tetrachloroethene SCAN
Concen: 44.19 ug/L
RT: 11.409 min Scan# 2015
Delta R.T. -0.021 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:166 Resp: 658

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	0.0	38.7	98.7#
129	0.0	41.8	101.8#

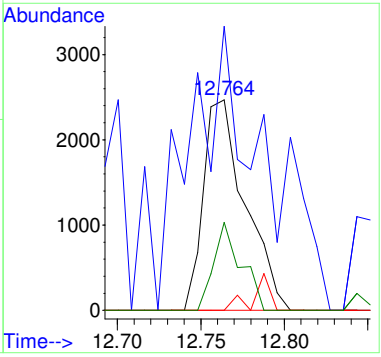


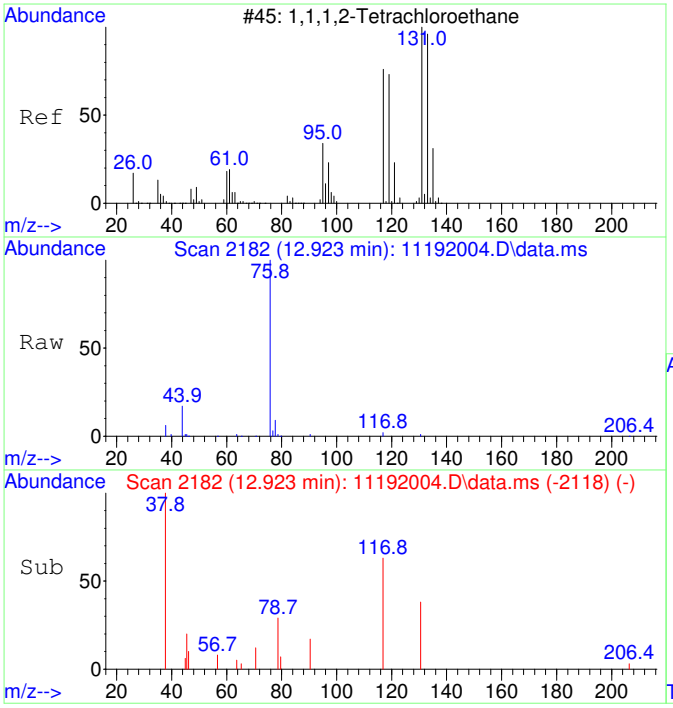


#40
Chlorobenzene SCAN
Concen: 101.72 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:112 Resp: 4308

Ion	Ratio	Lower	Upper
112	100		
77	242.9	28.2	88.2#
114	0.0	2.3	62.3#
51	27.3	0.0	50.1

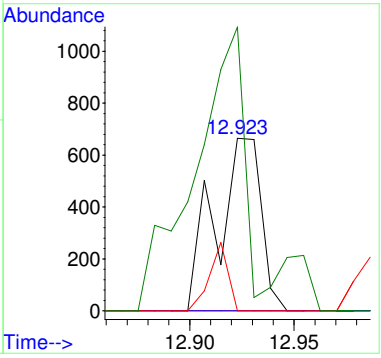


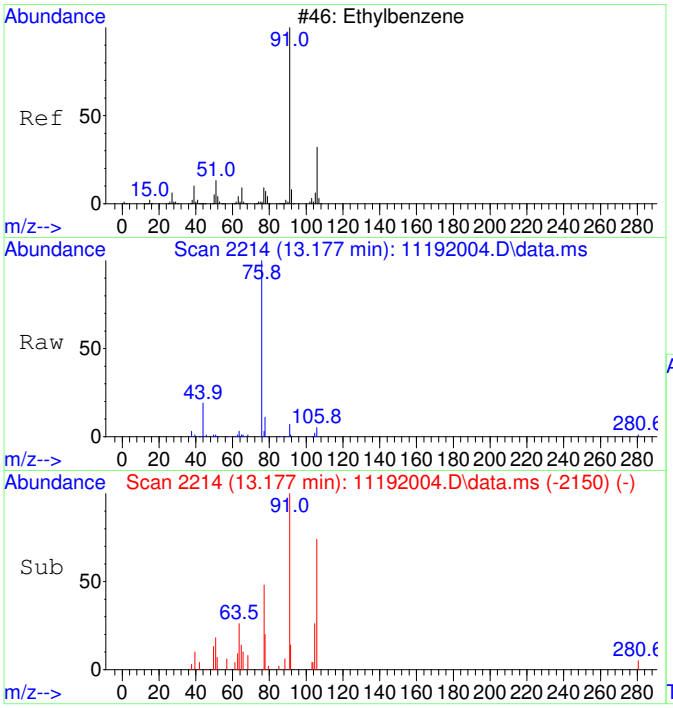


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 63.61 ug/L
RT: 12.923 min Scan# 2182
Delta R.T. 0.008 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:131 Resp: 997

Ion	Ratio	Lower	Upper
131	100		
133	0.0	66.9	126.9#
119	16.2	40.4	100.4#
117	167.4	35.1	95.1#

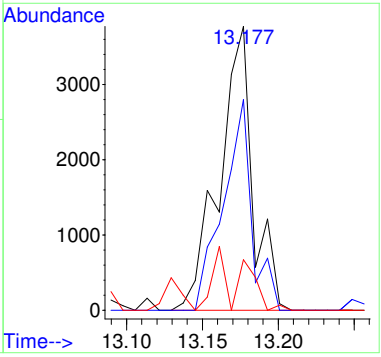


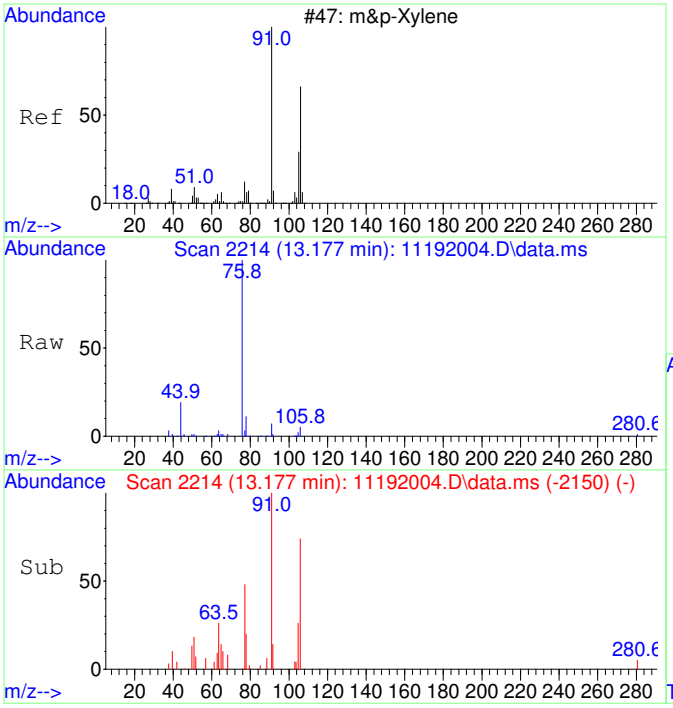


#42
Ethylbenzene SCAN
Concen: 51.37 ug/L
RT: 13.177 min Scan# 2214
Delta R.T. 0.008 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 5801

Ion	Ratio	Lower	Upper
91	100		
106	63.4	23.1	83.1
51	8.4	0.0	40.1

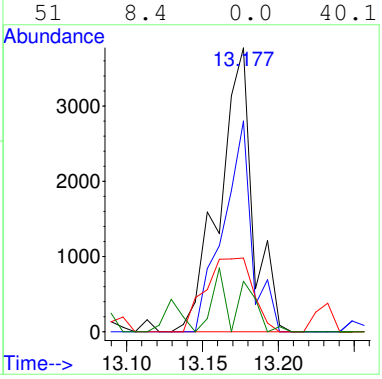


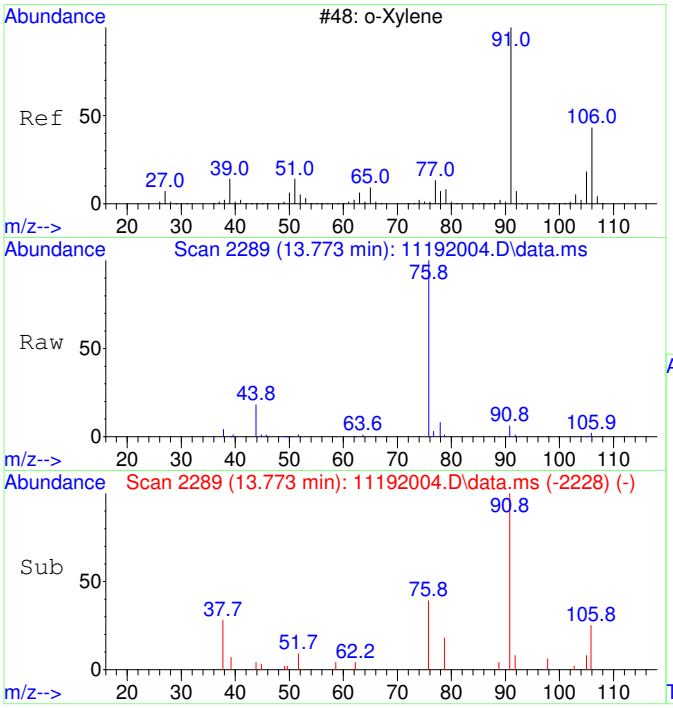


#43
m&p-Xylene SCAN
Concen: 51.37 ug/L
RT: 13.177 min Scan# 2214
Delta R.T. 0.008 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 5801

Ion	Ratio	Lower	Upper
91	100		
106	63.4	23.1	83.1
105	37.0	0.0	54.7
51	8.4	0.0	40.1

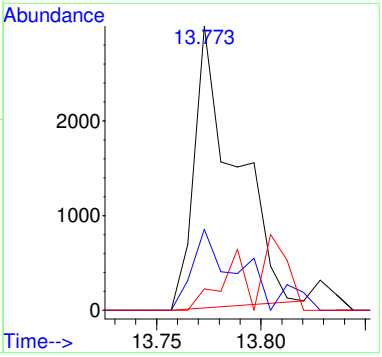


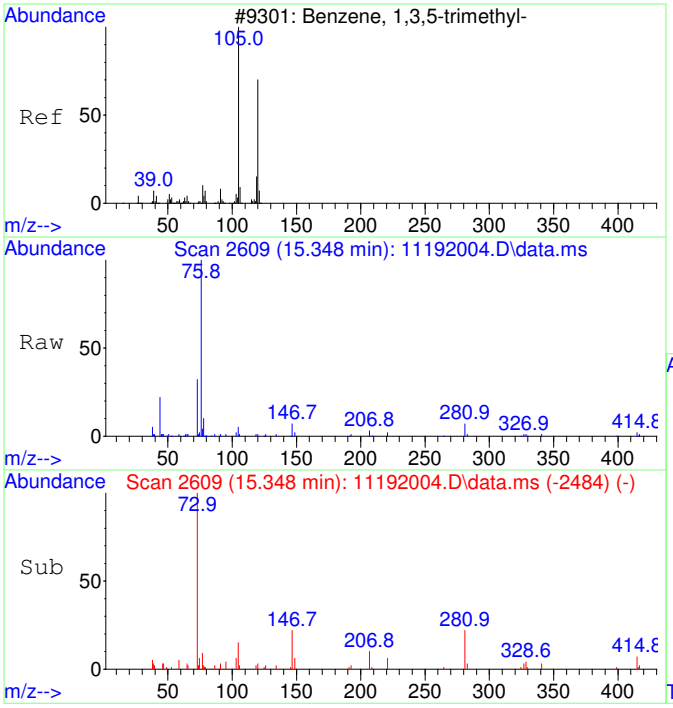


#44
o-Xylene SCAN
Concen: 68.13 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.016 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 4118

Ion	Ratio	Lower	Upper
91	100		
106	34.4	18.0	78.0
105	12.5	0.0	56.6

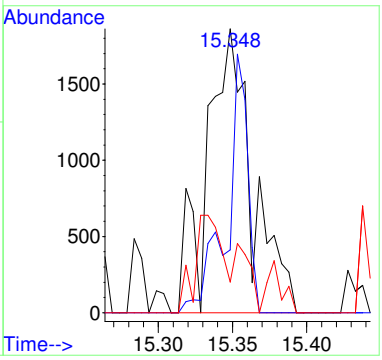


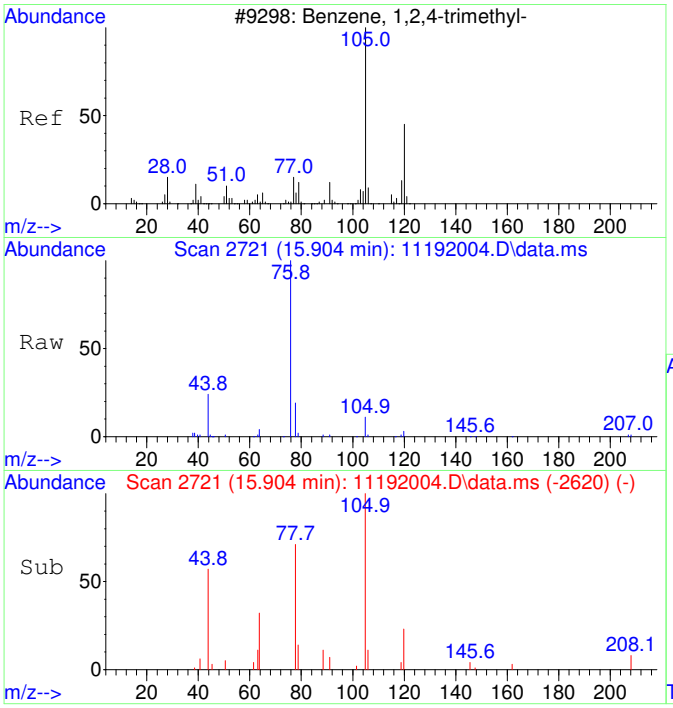


#46
1,3,5-Trimethylbenzene SCAN
Concen: 61.57 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 3922

Ion	Ratio	Lower	Upper
105	100		
120	42.0	18.3	78.3
119	5.5	0.0	43.1

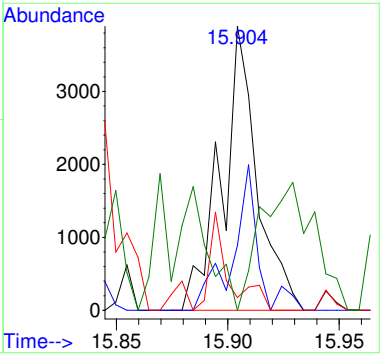


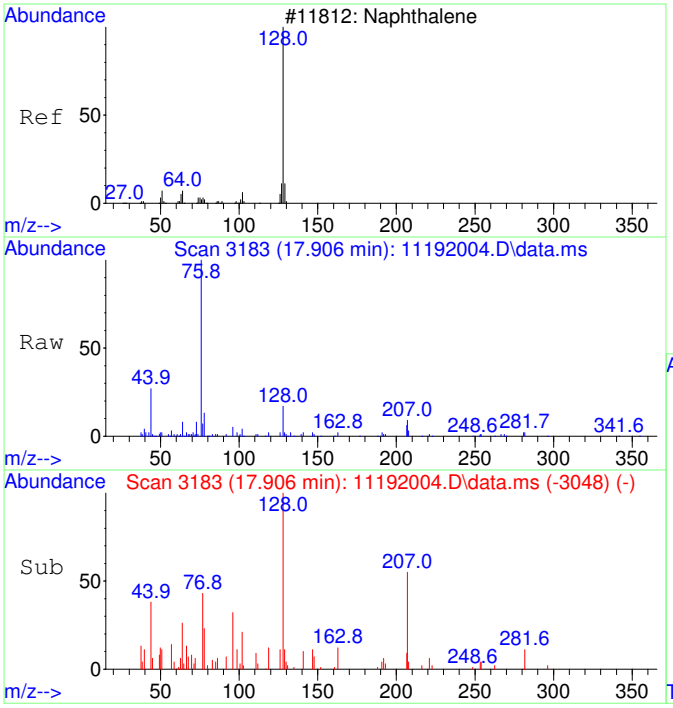


#47
1,2,4-Trimethylbenzene SCAN
Concen: 65.67 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 4280

Ion	Ratio	Lower	Upper
105	100		
120	36.8	16.9	76.9
119	23.3	0.0	41.9
77	0.0	0.0	42.3

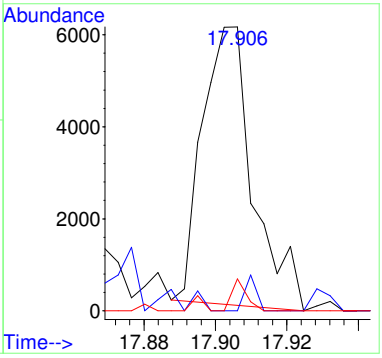




#48
Naphthalene SCAN
Concen: 60.34 ug/L
RT: 17.906 min Scan# 3183
Delta R.T. 0.001 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:128 Resp: 5951

Ion	Ratio	Lower	Upper
128	100		
127	2.9	0.0	44.0
129	3.3	0.0	40.8



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192004.D
Acq On : 19 Nov 2020 9:33
InstName : AG5975C
Operator : TD
Sample : S20K085-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

M.I. Performed By:
TD at 10:00 am, Nov 19, 2020

M.I. Approved By:
ZR at 4:44 pm, Nov 23, 2020

Quant Time: Nov 19 09:52:19 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	507664	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	4969	50.00	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	1.00%#		
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.082	61	978m	48.24	ug/L	
3] trans-1,2-Dichloroethene	4.356	61	1079	46.07	ug/L	52
4] 1,1-Dichloroethane	5.072	63	1352	46.37	ug/L	62
5] cis-1,2-Dichloroethene	6.081	61	1475	47.93	ug/L	97
6] Chloroform	6.652	83	1481	47.02	ug/L	97
7] 1,1,1-Trichloroethane	6.907	97	1559	45.57	ug/L	97
8] Carbon tetrachloride	7.175	117	1468	45.59	ug/L	100
9] Benzene	7.503	78	4370	50.66	ug/L #	1
10] 1,2-Dichloroethane	7.540	62	1378	44.75	ug/L #	1
11] Trichloroethene	8.569	130	1278	49.21	ug/L	91
13] Toluene	10.582	91	6447	50.88	ug/L	97
14] 1,1,2-Trichloroethane	11.232	97	1373	49.73	ug/L	92
15] Tetrachloroethene	11.432	166	1918	52.31	ug/L	99
16] Chlorobenzene	12.765	112	4889	53.89	ug/L	92
17] 1,1,1,2-Tetrachloroethane	12.916	131	1677	51.59	ug/L	98
18] Ethylbenzene	12.972	91	8286	53.73	ug/L	95
19] m&p-Xylene	13.162	91	13077	108.49	ug/L	95
20] o-Xylene	13.782	91	6834	53.07	ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.877	83	3096	54.25	ug/L	97
22] 1,3,5-Trimethylbenzene	15.350	105	7930	57.86	ug/L	95
23] 1,2,4-Trimethylbenzene	15.906	105	8552	60.07	ug/L	92
24] Naphthalene	17.904	128	13448	59.76	ug/L	97
25) 2-Fluorotoluene SCAN	10.969	109	237124	4791.56	ug/L	100
27) trans-1,2-Dichloroethe...	4.328	61	1194	91.81	ug/L #	17
29) cis-1,2-Dichloroethene...	6.093	61	499	30.94	ug/L #	1
30) Chloroform SCAN	6.675	83	558	31.90	ug/L #	27
31) 1,1,1-Trichloroethane ...	6.894	97	481	30.18	ug/L #	19
32) Carbon tetrachloride SCAN	7.161	117	429	25.80	ug/L #	13
33) Benzene SCAN	7.575	78	8401	191.43	ug/L	92
34) 1,2-Dichloroethane SCAN	7.563	62	914	56.40	ug/L #	40
35) Trichloroethene SCAN	8.557	130	378	31.34	ug/L #	40
36) Toluene-d8 SCAN	10.486	98	1459	30.15	ug/L #	29
37) Toluene SCAN	10.580	91	3645	58.81	ug/L #	70
38) 1,1,2-Trichloroethane ...	11.242	97	987	70.95	ug/L	89
39) Tetrachloroethene SCAN	11.409	166	658	44.19	ug/L #	12
40) Chlorobenzene SCAN	12.764	112	4308	101.72	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.923	131	997	63.61	ug/L #	3
42) Ethylbenzene SCAN	13.177	91	5801	51.37	ug/L	87
43) m&p-Xylene SCAN	13.177	91	5801	51.37	ug/L	84
44) o-Xylene SCAN	13.773	91	4118	68.13	ug/L	77
46) 1,3,5-Trimethylbenzene...	15.348	105	3922	61.57	ug/L	89
47) 1,2,4-Trimethylbenzene...	15.904	105	4280	65.67	ug/L #	80
48) Naphthalene SCAN	17.906	128	5951	60.34	ug/L	76

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192004.D
Acq On : 19 Nov 2020 9:33
InstName : AG5975C
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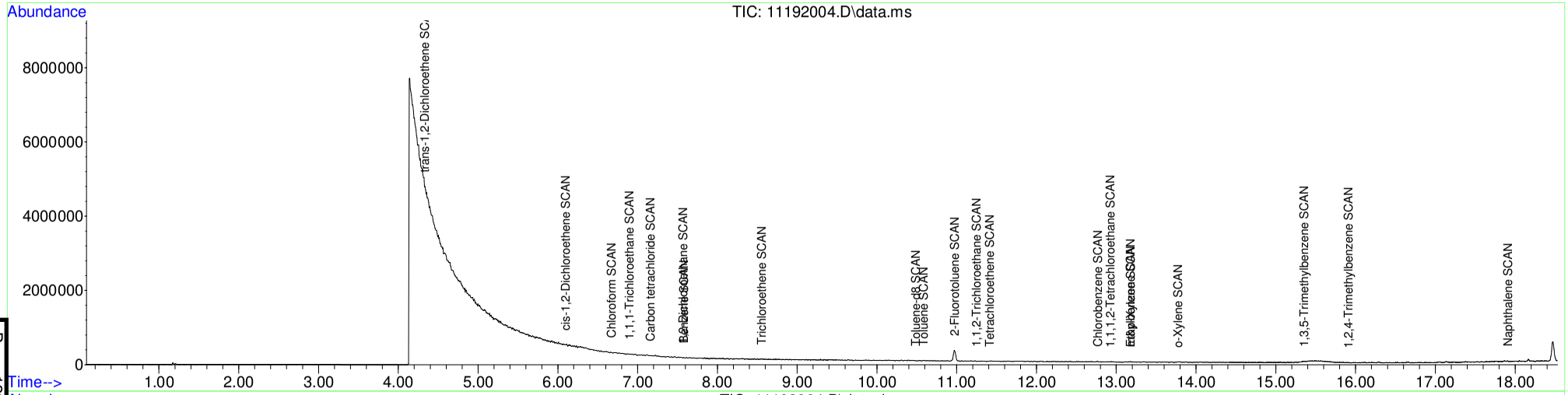
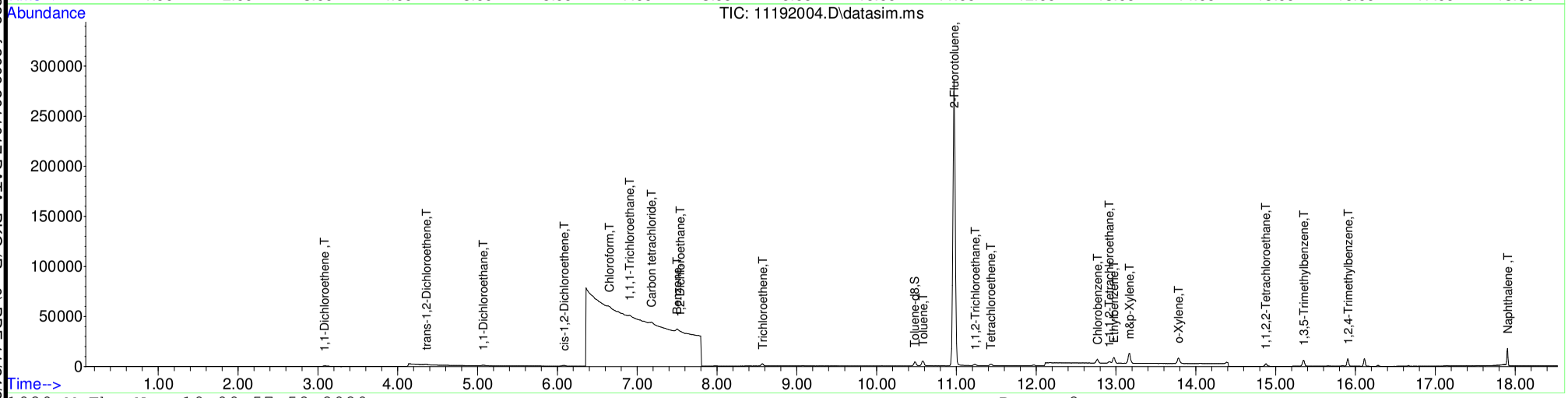
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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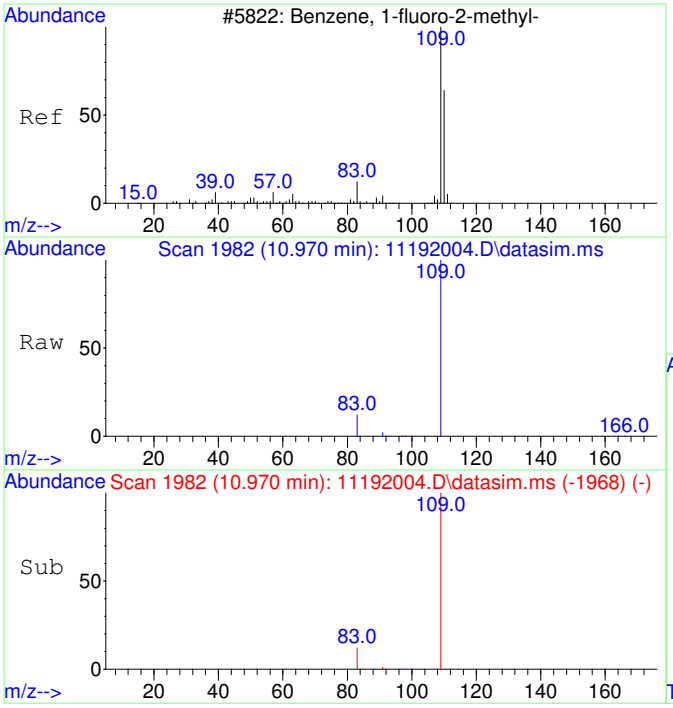
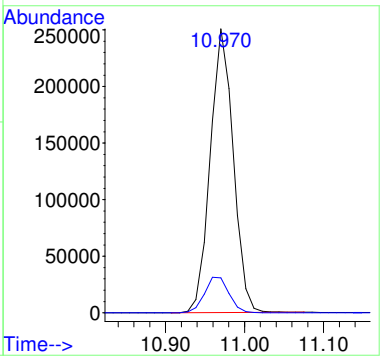
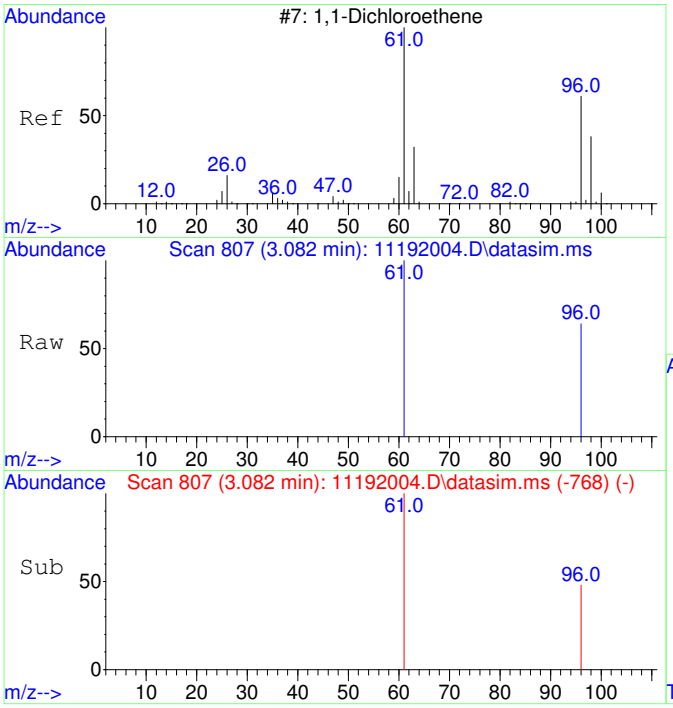


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:109 Resp: 507664

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

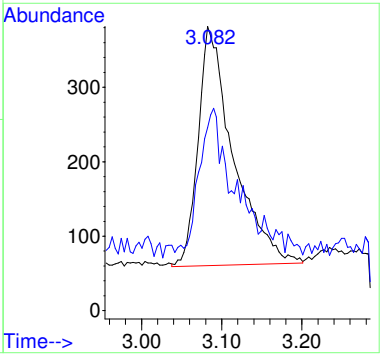


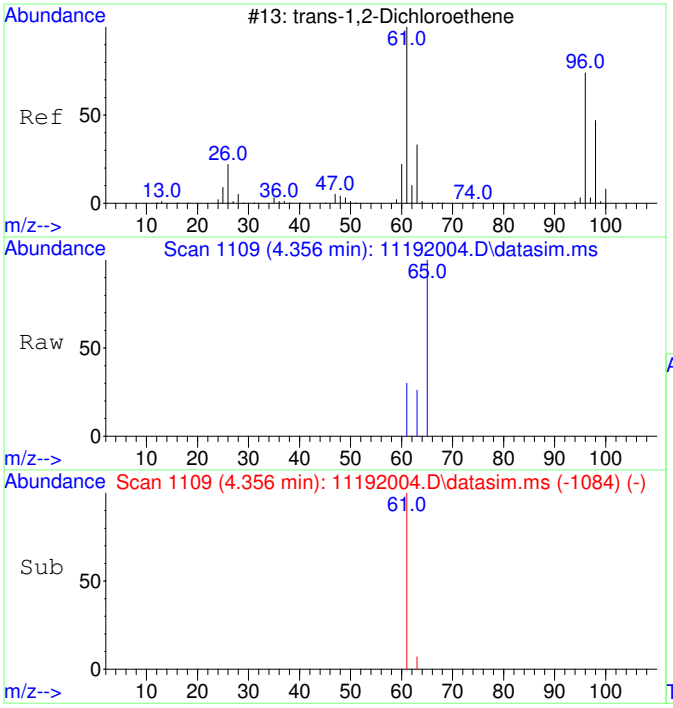


#2
1,1-Dichloroethene
Concen: 48.24 ug/L m
RT: 3.082 min Scan# 807
Delta R.T. -0.004 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 978

Ion	Ratio	Lower	Upper
61	100		
96	58.2	37.2	97.2

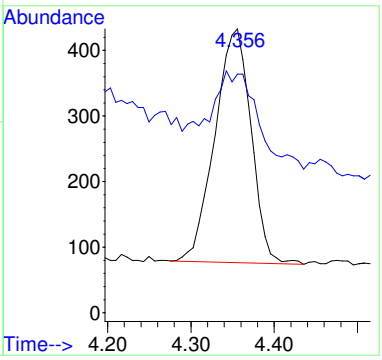


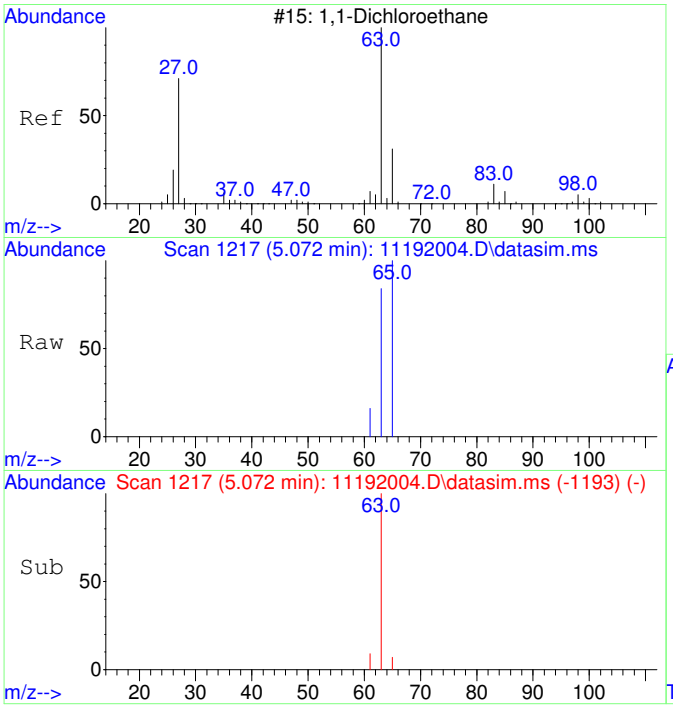


#3
trans-1,2-Dichloroethene
Concen: 46.07 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 1079

Ion	Ratio	Lower	Upper
61	100		
63	59.4	2.4	62.4

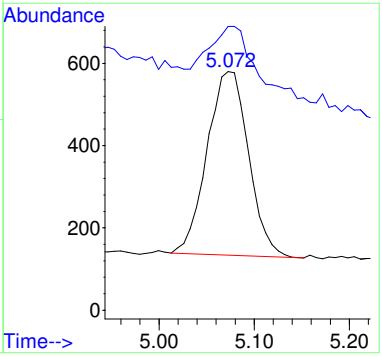


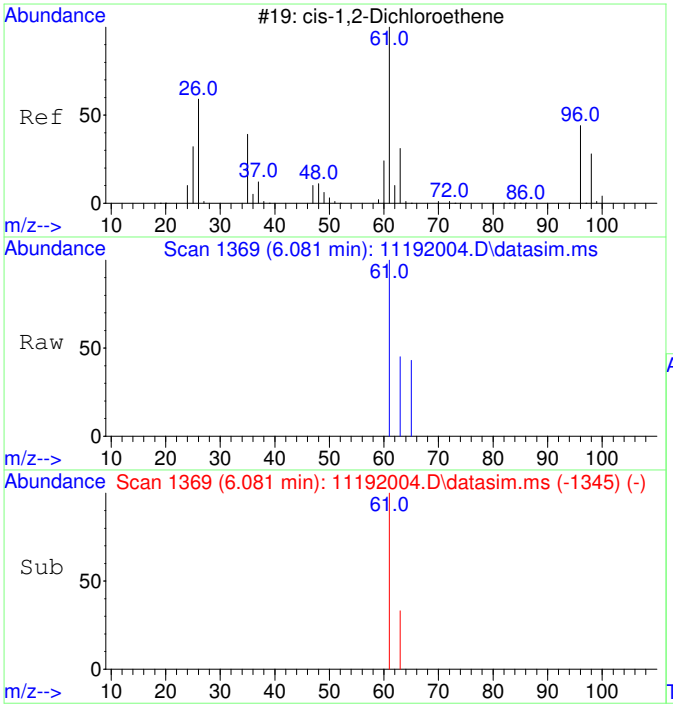


#4
1,1-Dichloroethane
Concen: 46.37 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 63 Resp: 1352

Ion	Ratio	Lower	Upper
63	100		
65	52.9	1.8	61.8

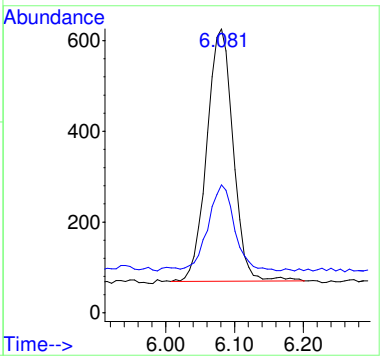


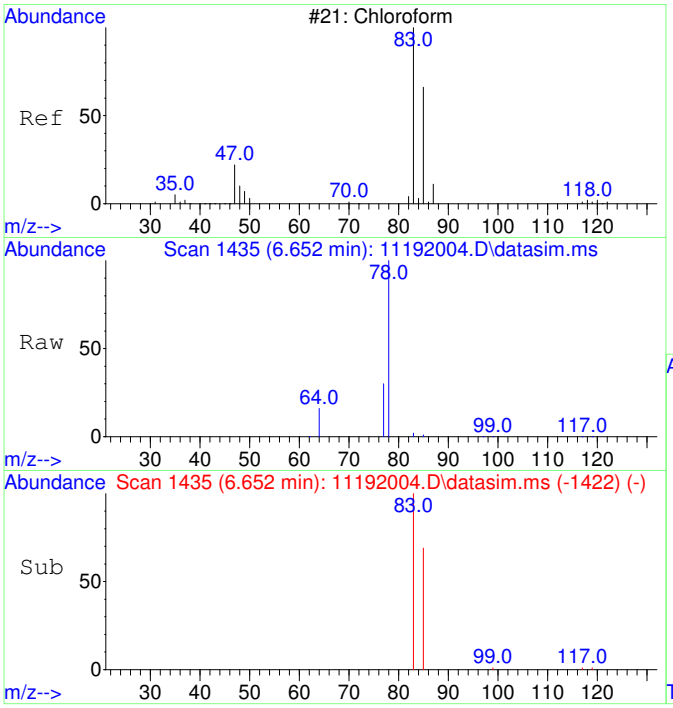


#5
cis-1,2-Dichloroethene
Concen: 47.93 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 1475

Ion	Ratio	Lower	Upper
61	100		
63	34.0	2.5	62.5

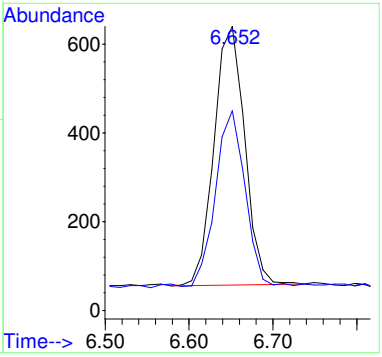


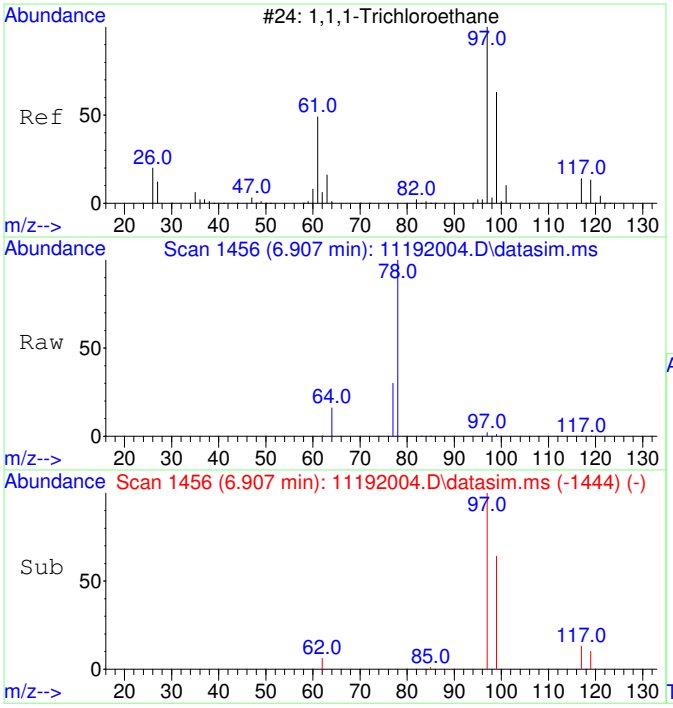


#6
Chloroform
Concen: 47.02 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 83 Resp: 1481

Ion	Ratio	Lower	Upper
83	100		
85	67.7	35.1	95.1

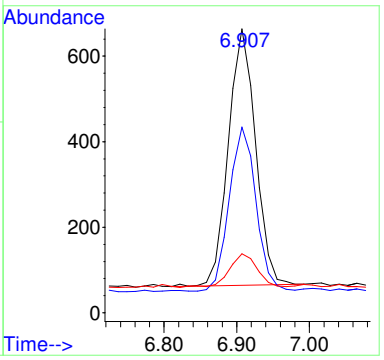


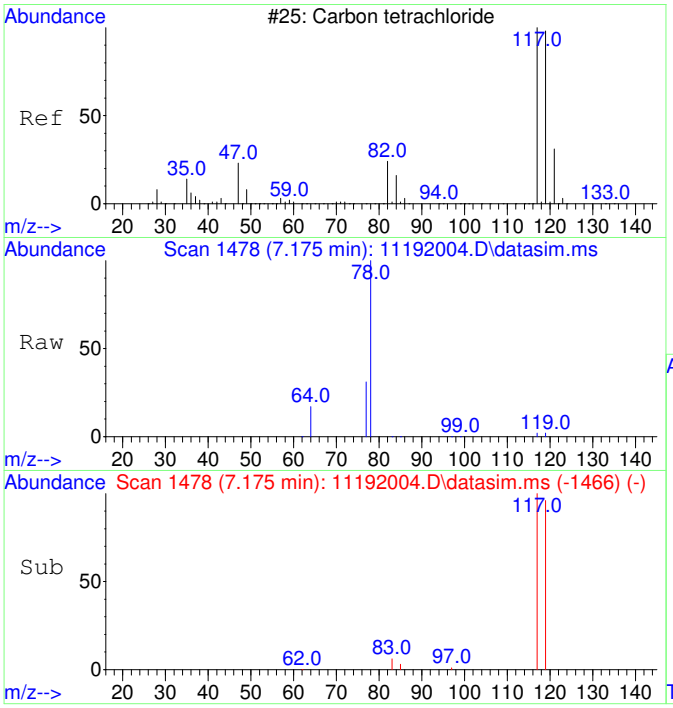


#7
1,1,1-Trichloroethane
Concen: 45.57 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 1559

Ion	Ratio	Lower	Upper
97	100		
99	62.3	34.6	94.6
117	13.9	0.0	43.2

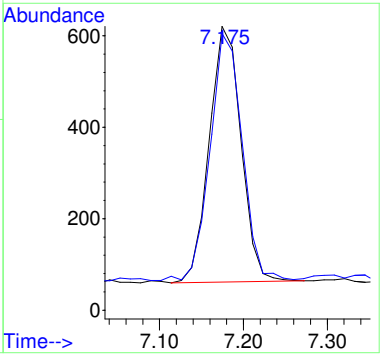


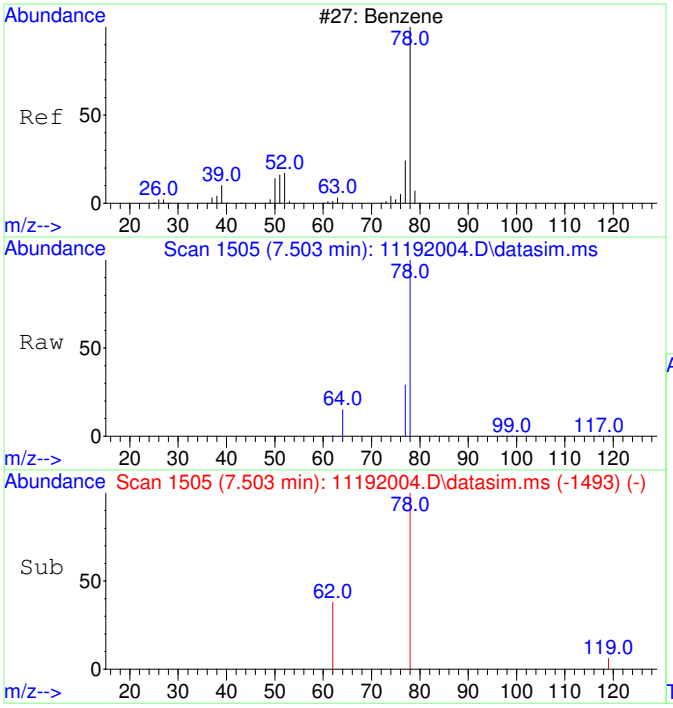


#8
Carbon tetrachloride
Concen: 45.59 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:117 Resp: 1468

Ion	Ratio	Lower	Upper
117	100		
119	96.7	66.4	126.4

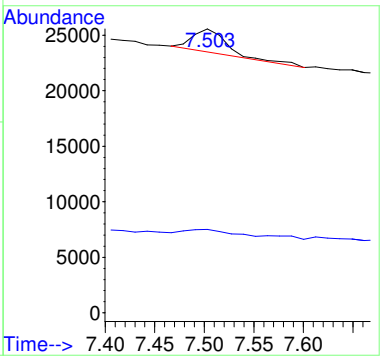


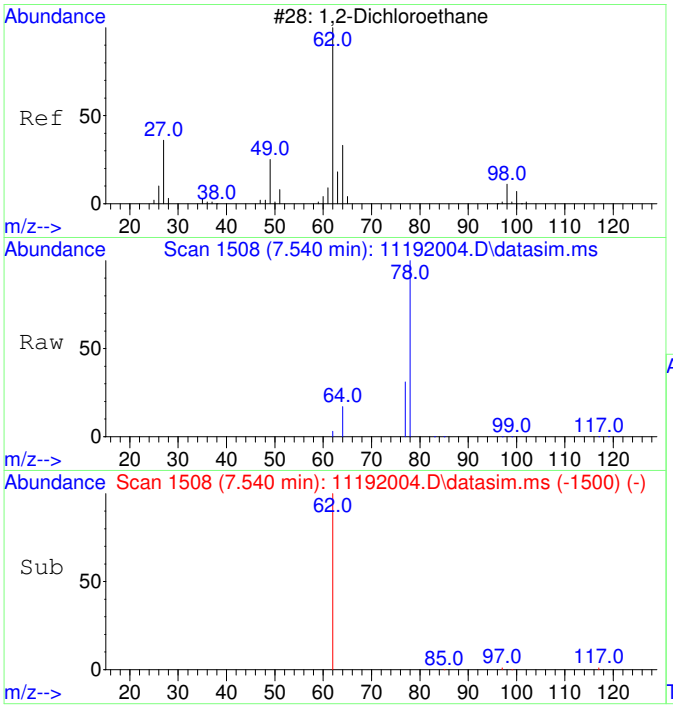


#9
Benzene
Concen: 50.66 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 78 Resp: 4370

Ion	Ratio	Lower	Upper
78	100		
77	89.0	0.0	53.2#

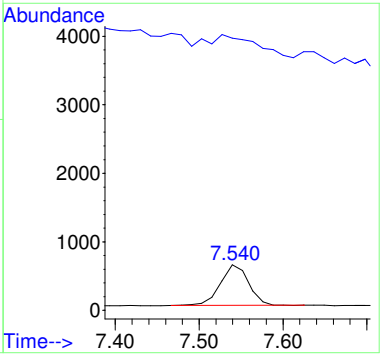


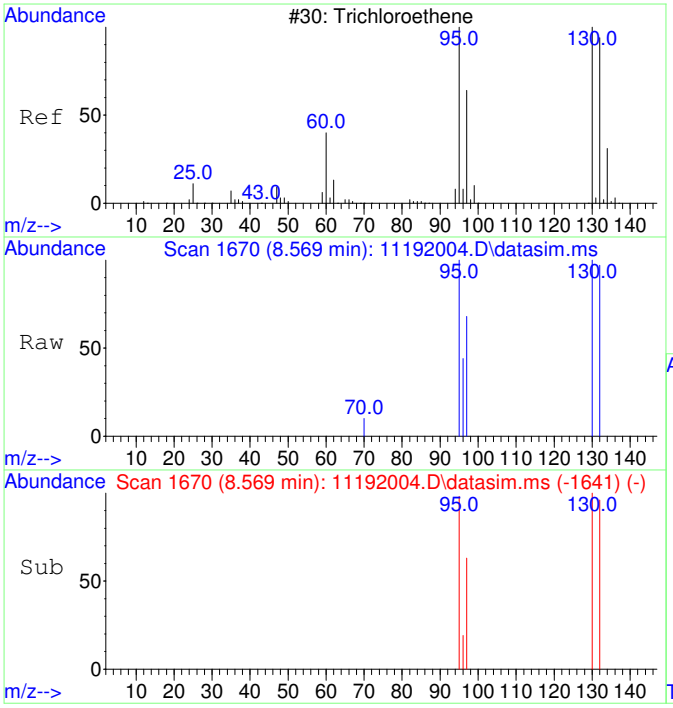


#10
1,2-Dichloroethane
Concen: 44.75 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 62 Resp: 1378

Ion	Ratio	Lower	Upper
62	100		
64	99.3	2.3	62.3#

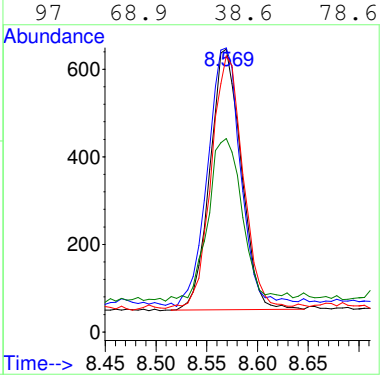


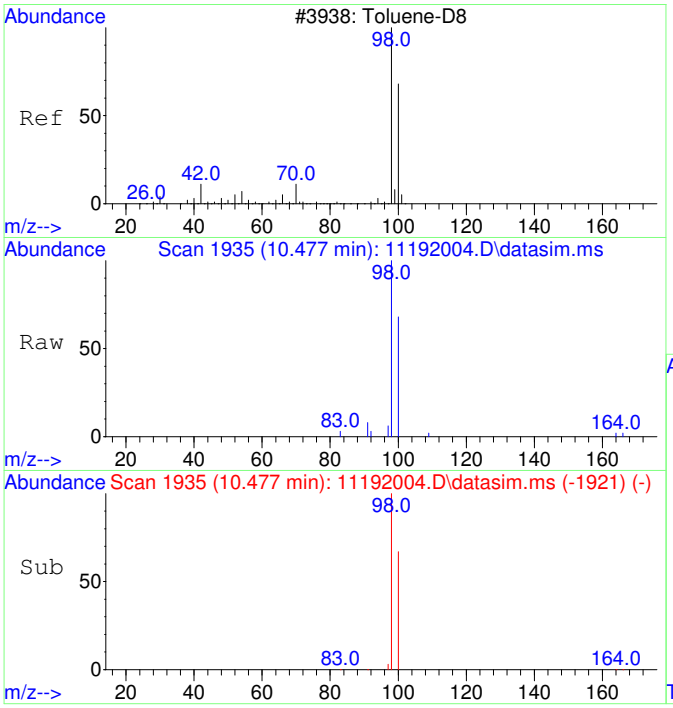


#11
Trichloroethene
Concen: 49.21 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:130 Resp: 1278

Ion	Ratio	Lower	Upper
130	100		
95	103.8	60.7	120.7
132	96.6	76.0	116.0
97	68.9	38.6	78.6

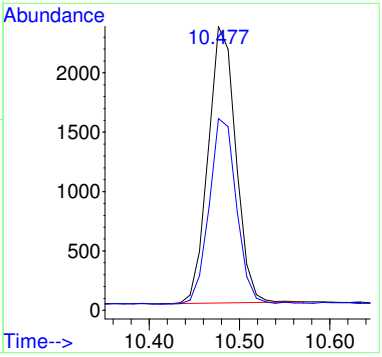


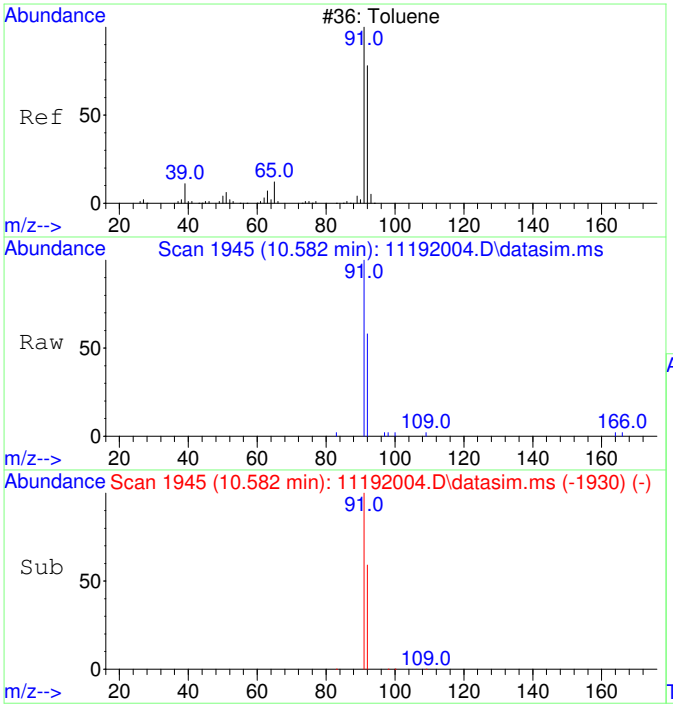


#12
Toluene-d8
Concen: 50.00 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 98 Resp: 4969

Ion	Ratio	Lower	Upper
98	100		
100	65.8	37.1	97.1

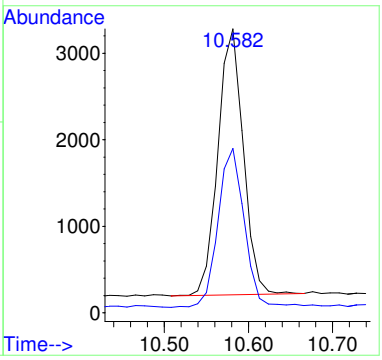


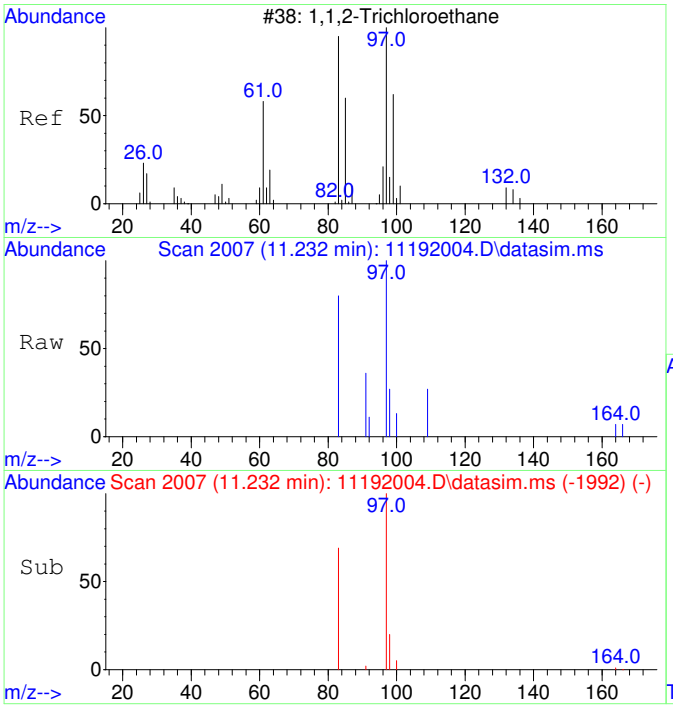


#13
Toluene
Concen: 50.88 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 6447

Ion	Ratio	Lower	Upper
91	100		
92	61.9	29.9	89.9

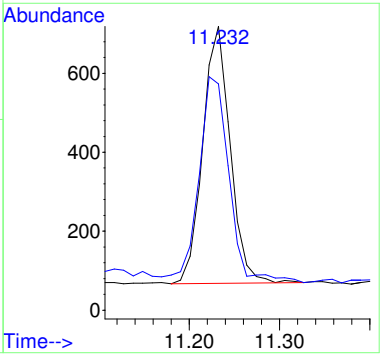


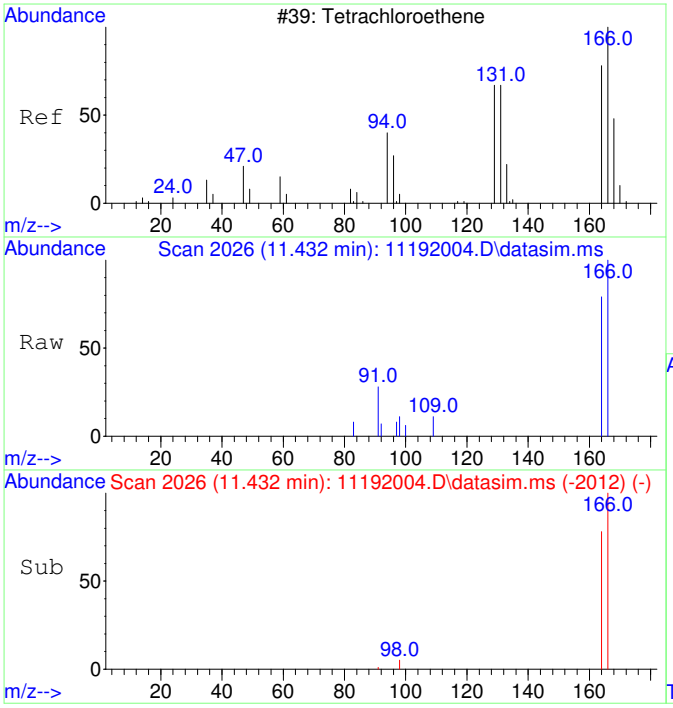


#14
1,1,2-Trichloroethane
Concen: 49.73 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 1373

Ion	Ratio	Lower	Upper
97	100		
83	88.0	51.2	111.2

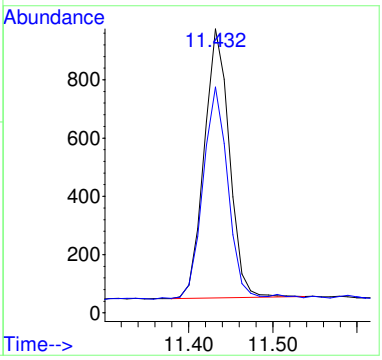


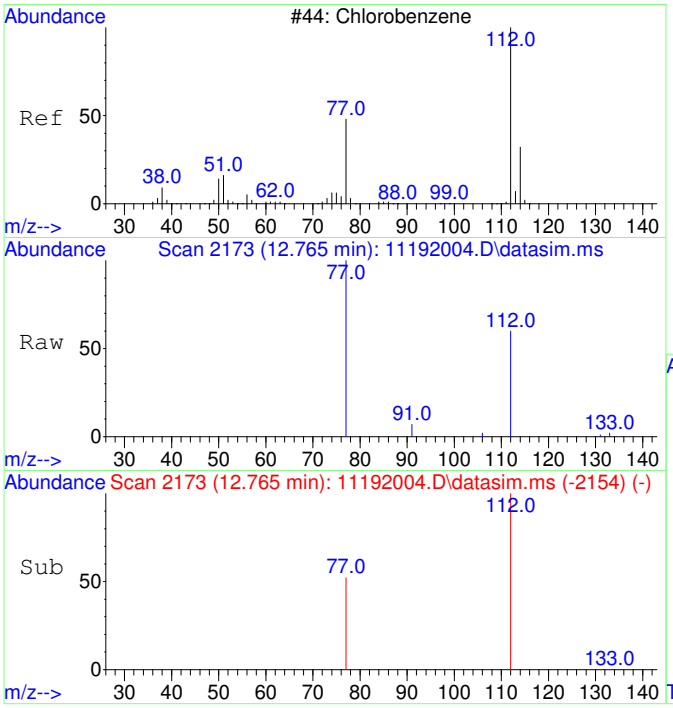


#15
Tetrachloroethene
Concen: 52.31 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:166 Resp: 1918

Ion	Ratio	Lower	Upper
166	100		
164	78.3	47.8	107.8

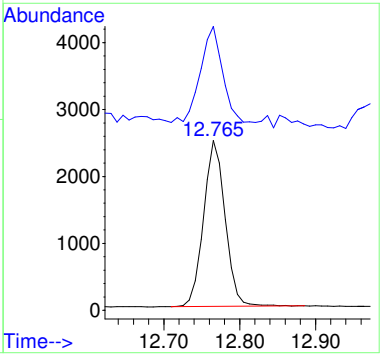


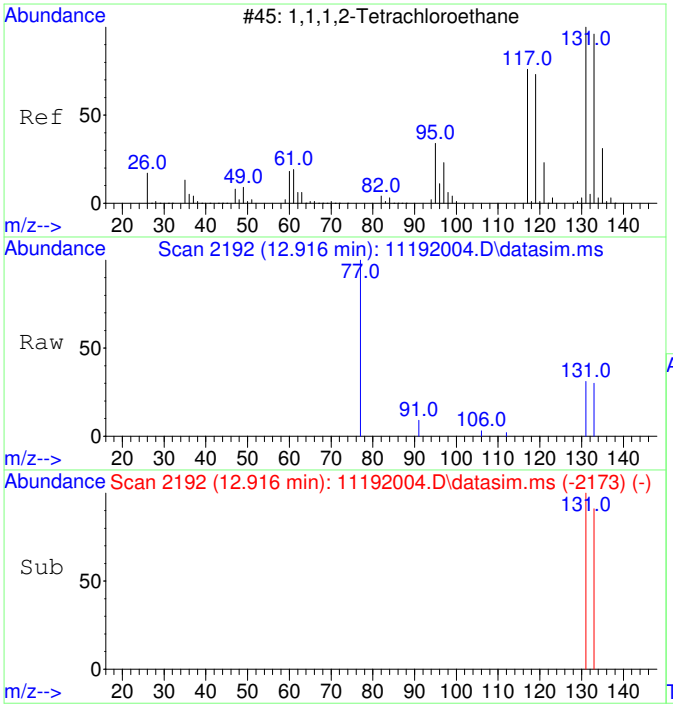


#16
Chlorobenzene
Concen: 53.89 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:112 Resp: 4889

Ion	Ratio	Lower	Upper
112	100		
77	59.0	23.6	83.6

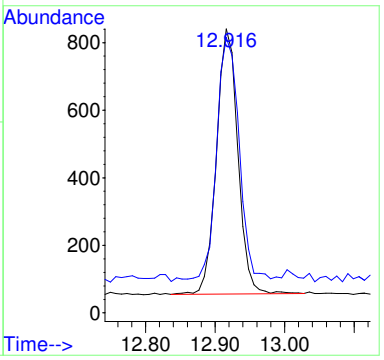


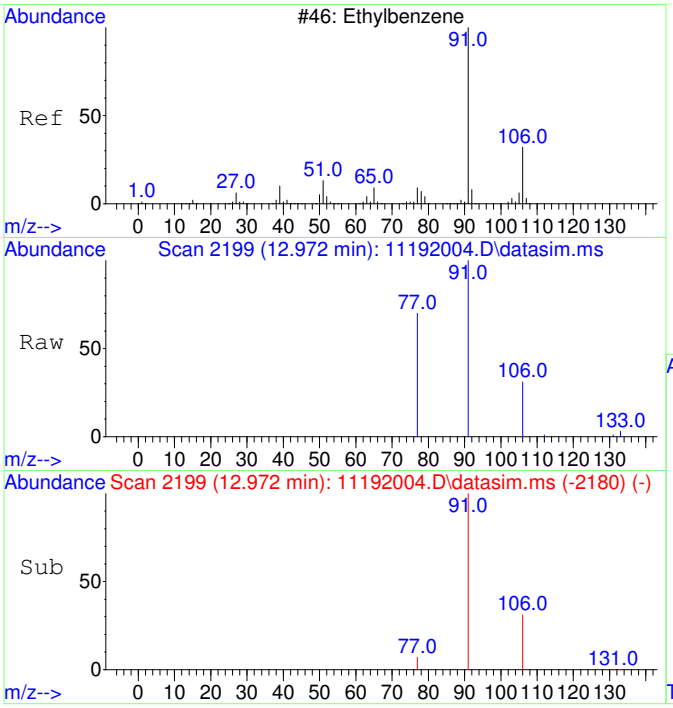


#17
1,1,1,2-Tetrachloroethane
Concen: 51.59 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:131 Resp: 1677

Ion	Ratio	Lower	Upper
131	100		
133	94.1	66.3	126.3

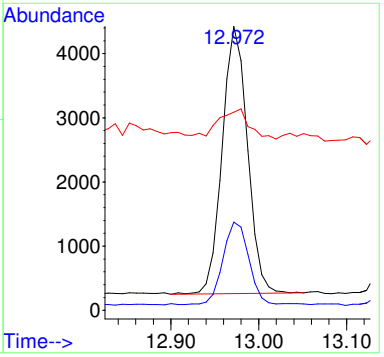


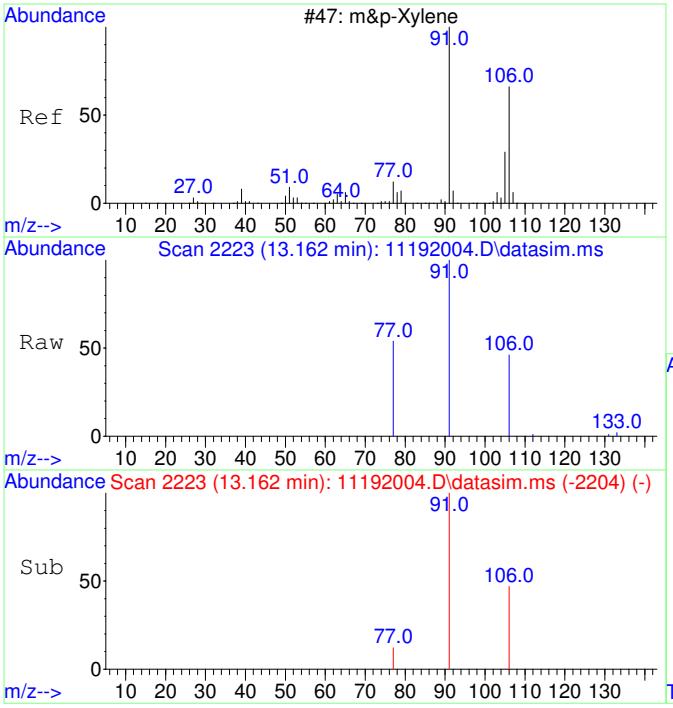


#18
Ethylbenzene
Concen: 53.73 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 8286

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	13.7	0.0	38.2

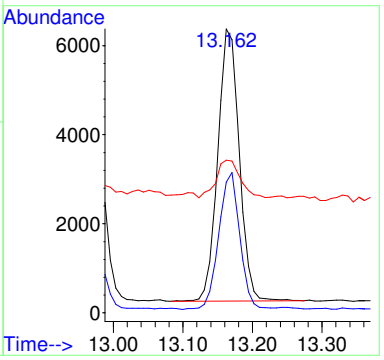


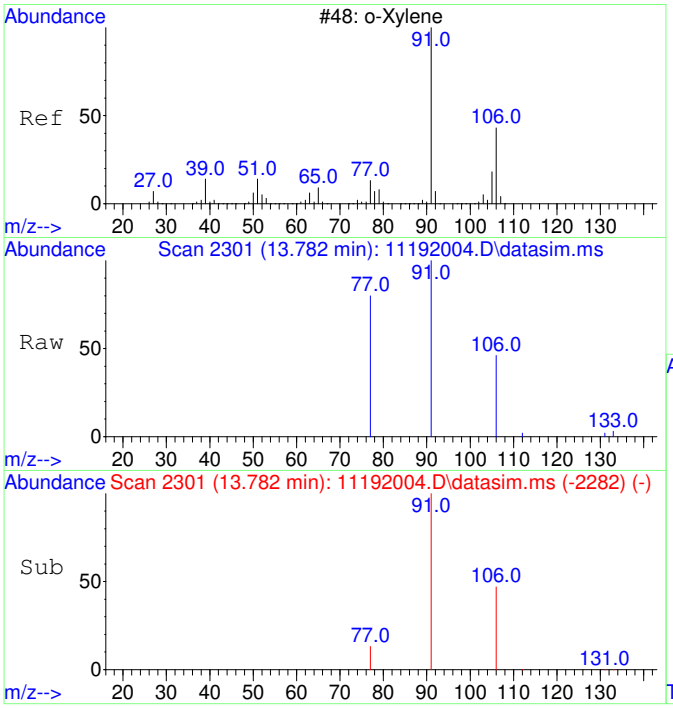


#19
m&p-Xylene
Concen: 108.49 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 13077

Ion	Ratio	Lower	Upper
91	100		
106	49.4	22.2	82.2
77	15.3	0.0	42.4

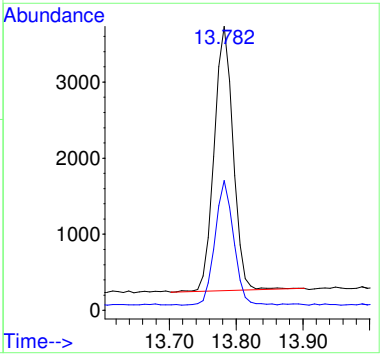


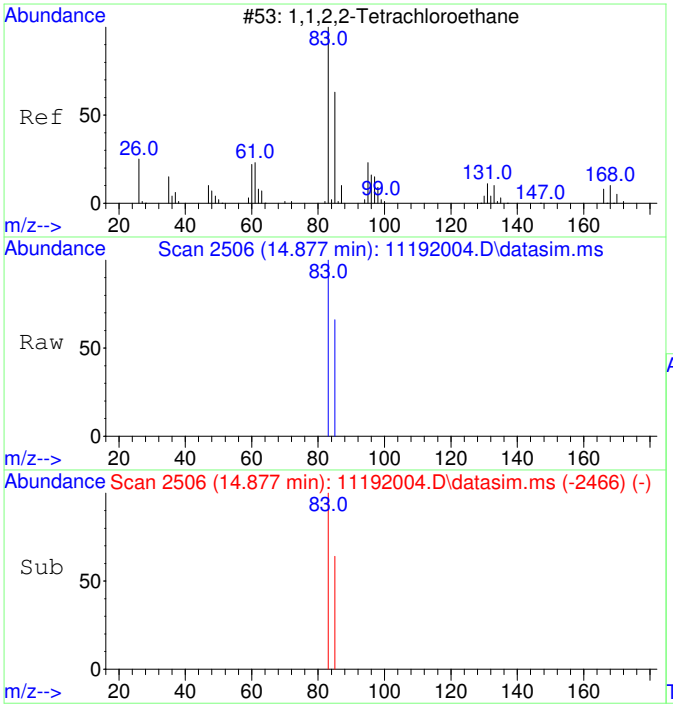


#20
o-Xylene
Concen: 53.07 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 6834

Ion	Ratio	Lower	Upper
91	100		
106	46.5	19.2	79.2

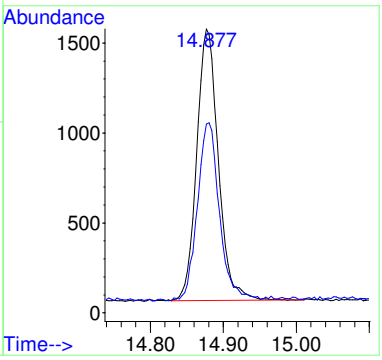


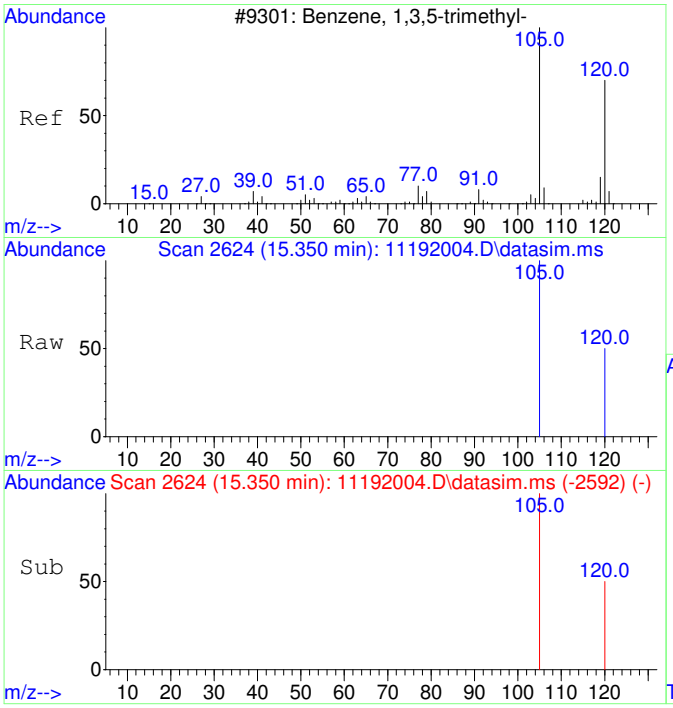


#21
1,1,2,2-Tetrachloroethane
Concen: 54.25 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 83 Resp: 3096

Ion	Ratio	Lower	Upper
83	100		
85	67.3	34.8	94.8

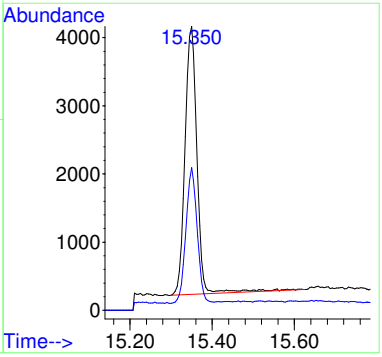


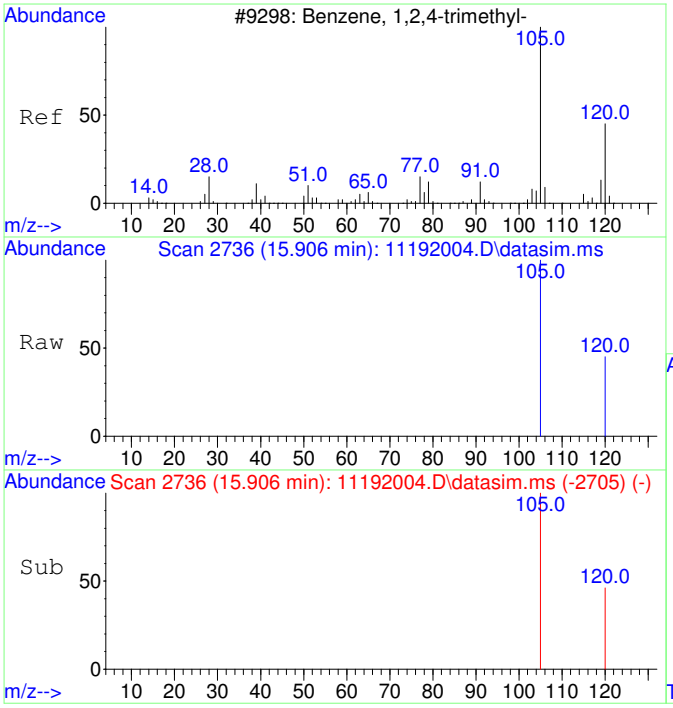


#22
1,3,5-Trimethylbenzene
Concen: 57.86 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 7930

Ion	Ratio	Lower	Upper
105	100		
120	47.8	21.1	81.1

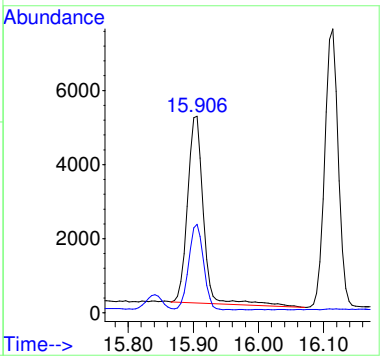


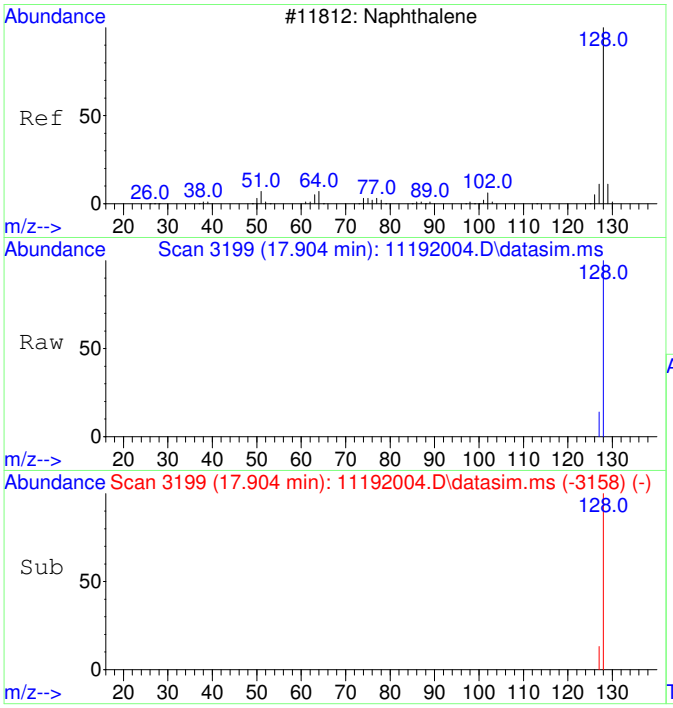


#23
1,2,4-Trimethylbenzene
Concen: 60.07 ug/L
RT: 15.906 min Scan# 2736
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 8552

Ion	Ratio	Lower	Upper
105	100		
120	41.8	17.2	77.2

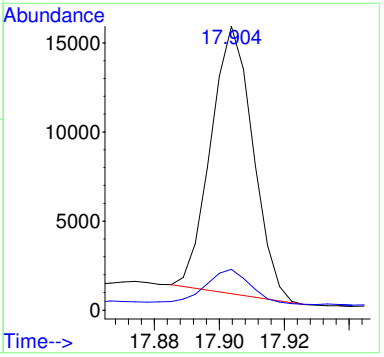


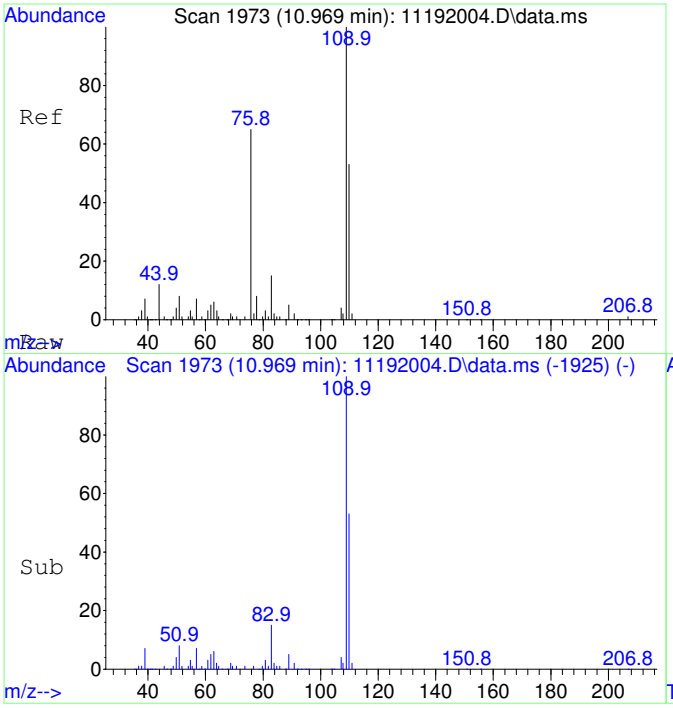


#24
Naphthalene
Concen: 59.76 ug/L
RT: 17.904 min Scan# 3199
Delta R.T. 0.001 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:128 Resp: 13448

Ion	Ratio	Lower	Upper
128	100		
127	13.5	0.0	42.5

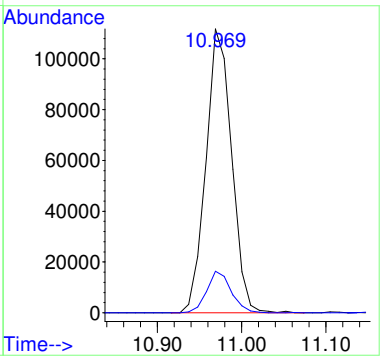


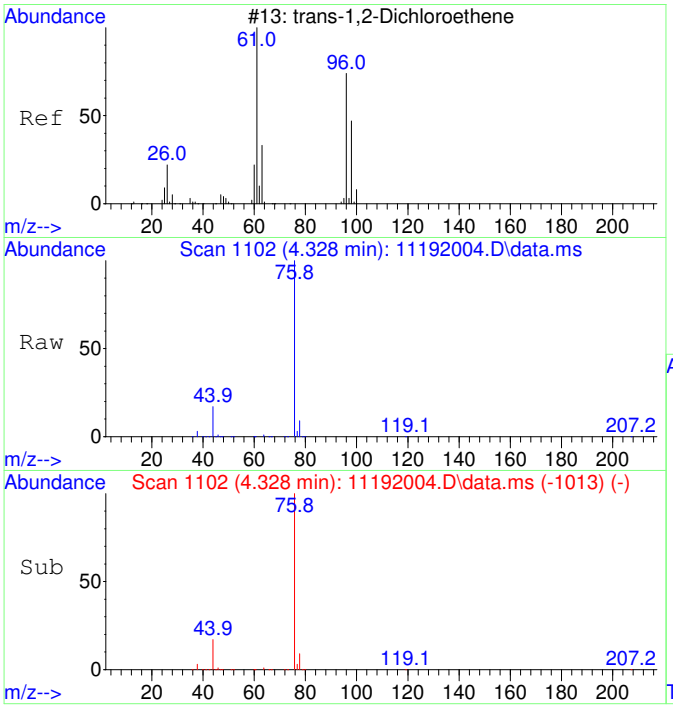


#25
2-Fluorotoluene SCAN
Concen: 4791.56 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:109 Resp: 237124

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	43.8

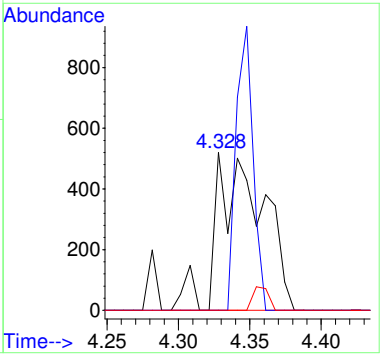


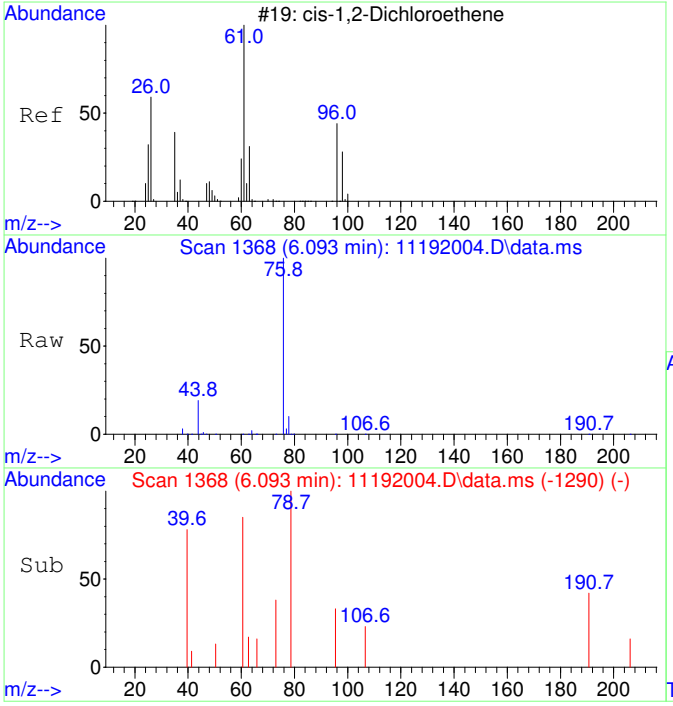


#27
trans-1,2-Dichloroethene SCAN
Concen: 91.81 ug/L
RT: 4.328 min Scan# 1102
Delta R.T. -0.020 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 1194

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	0.0	20.5	80.5#

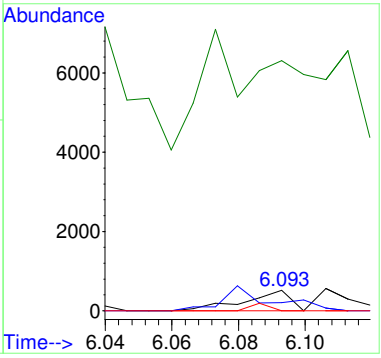


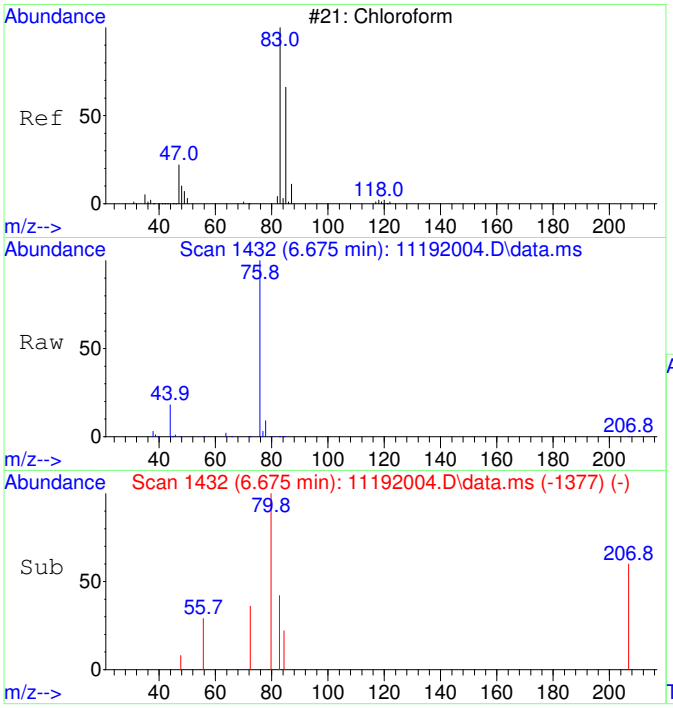


#29
cis-1,2-Dichloroethene SCAN
Concen: 30.94 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 499

Ion	Ratio	Lower	Upper
61	100		
96	126.1	39.9	99.9#
98	15.2	13.5	73.5
64	1188.2	4.5	64.5#

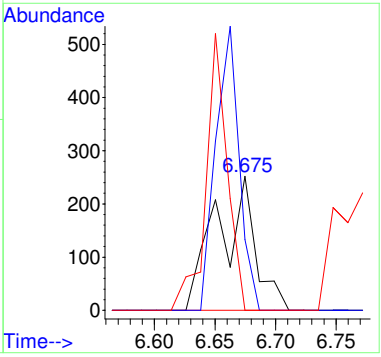


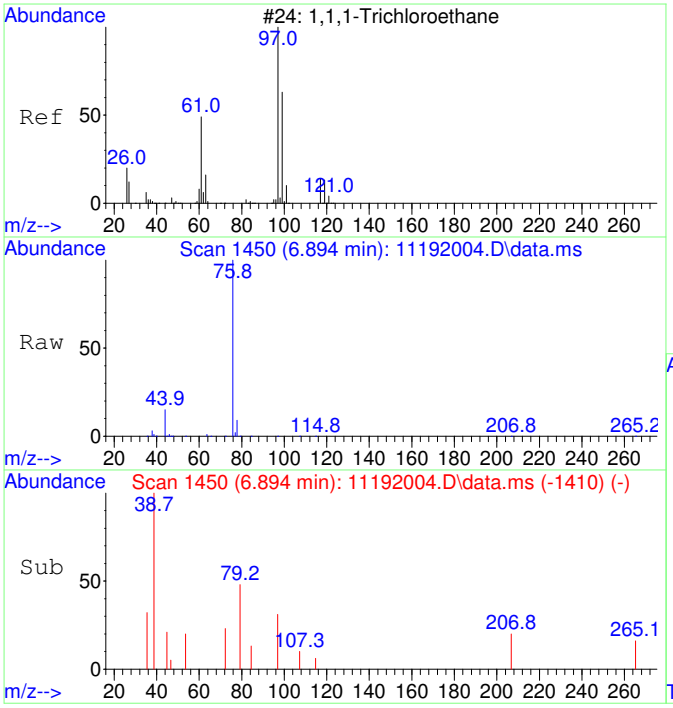


#30
Chloroform SCAN
Concen: 31.90 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.024 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 83 Resp: 558

Ion	Ratio	Lower	Upper
83	100		
85	128.9	34.6	94.6#
47	0.0	0.0	53.4

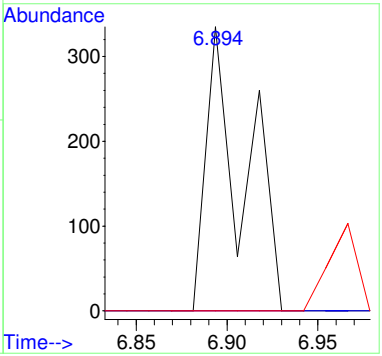


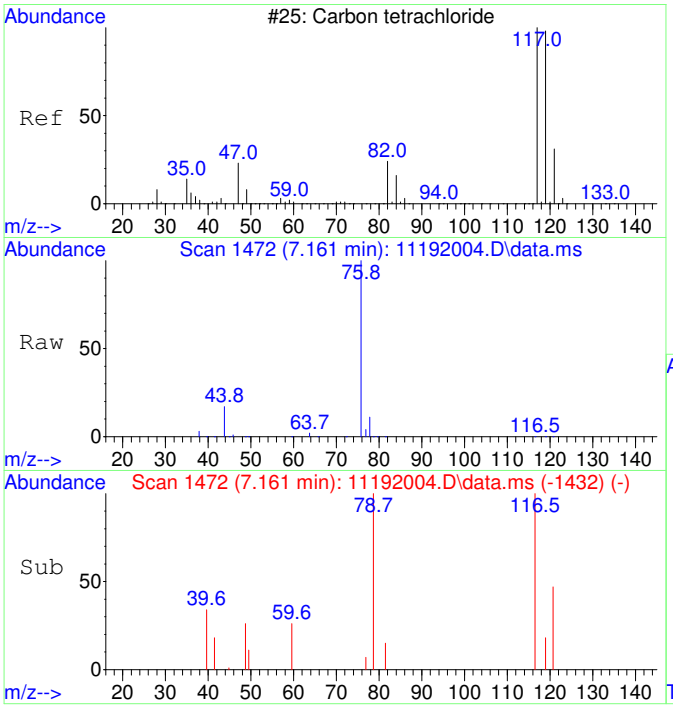


#31
1,1,1-Trichloroethane SCAN
Concen: 30.18 ug/L
RT: 6.894 min Scan# 1450
Delta R.T. -0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 481

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	0.0	18.0	78.0#

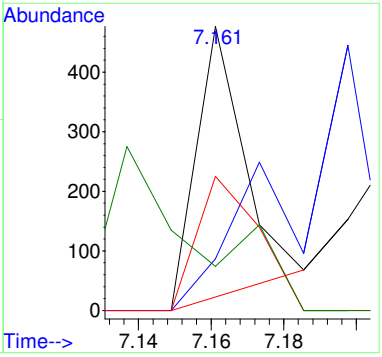


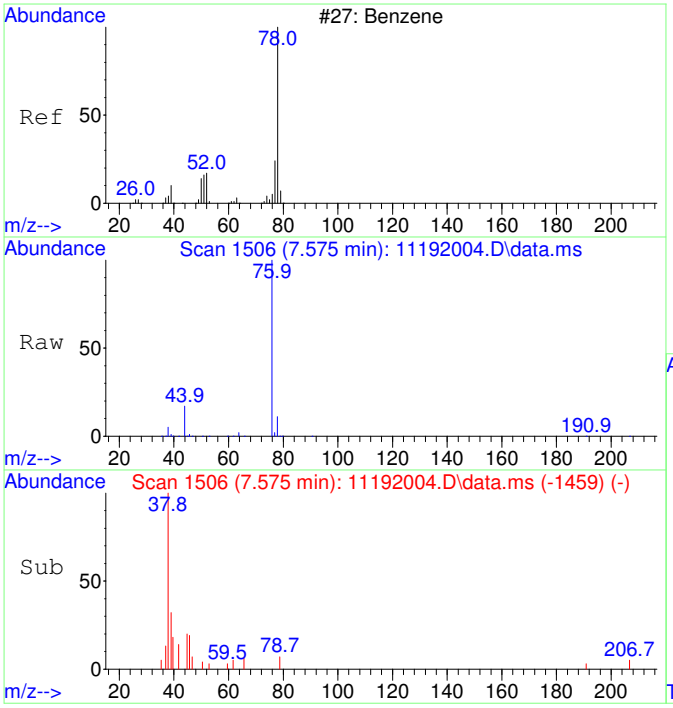


#32
Carbon tetrachloride SCAN
Concen: 25.80 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:117 Resp: 429

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	62.0	0.0	58.8#
82	0.0	0.0	59.2

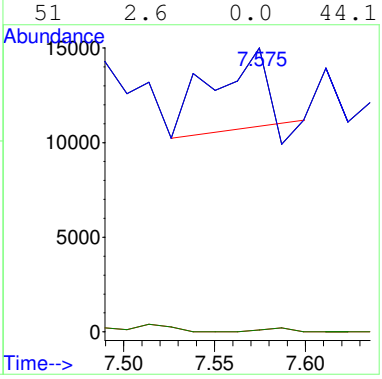


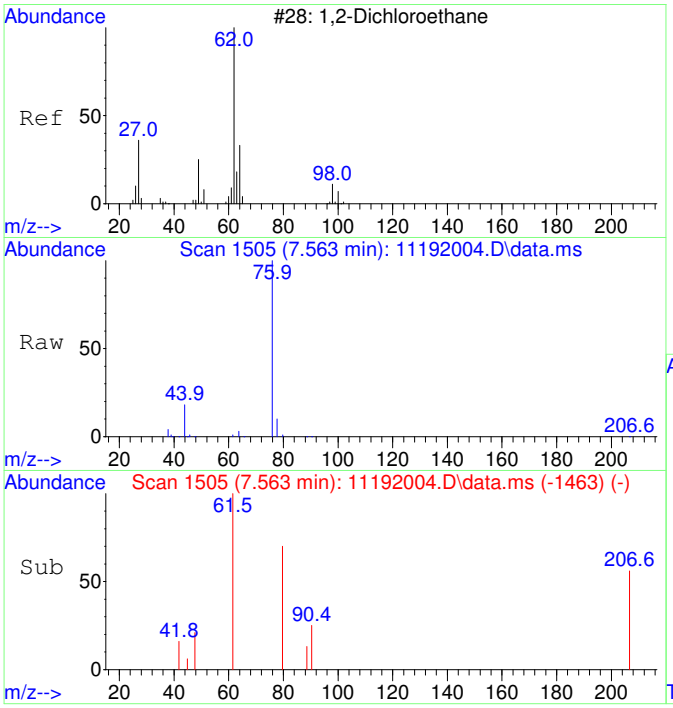


#33
Benzene SCAN
Concen: 191.43 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. 0.073 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 78 Resp: 8401

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	2.6	0.0	47.9
51	2.6	0.0	44.1

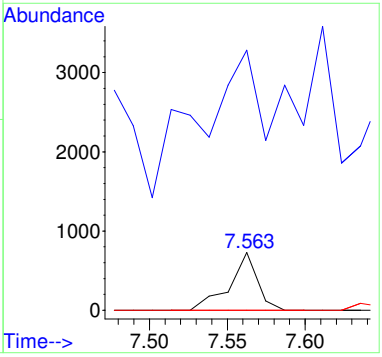


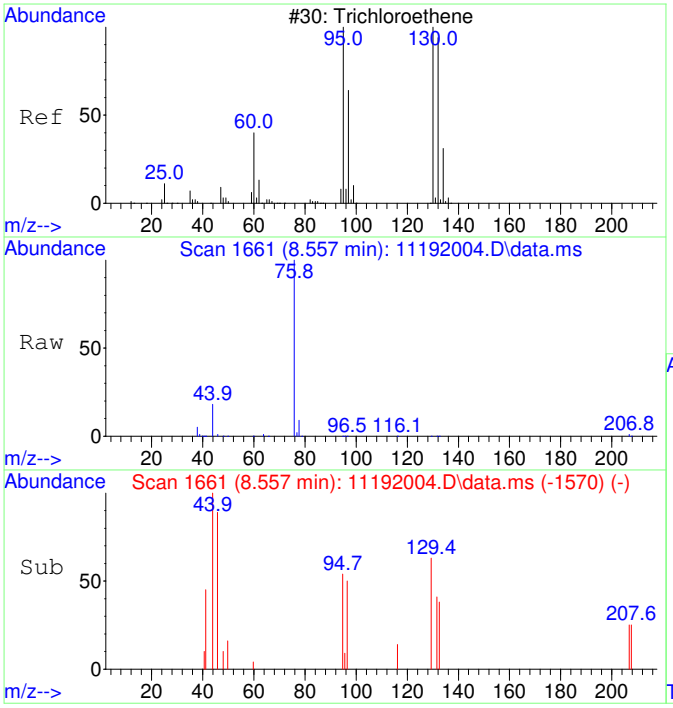


#34
1,2-Dichloroethane SCAN
Concen: 56.40 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 62 Resp: 914

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	0.0	3.9	63.9#

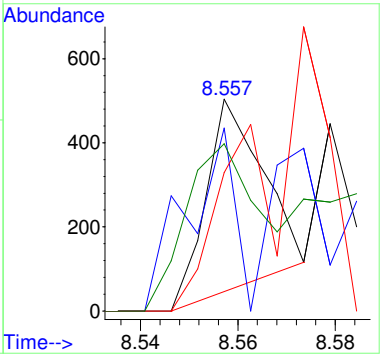


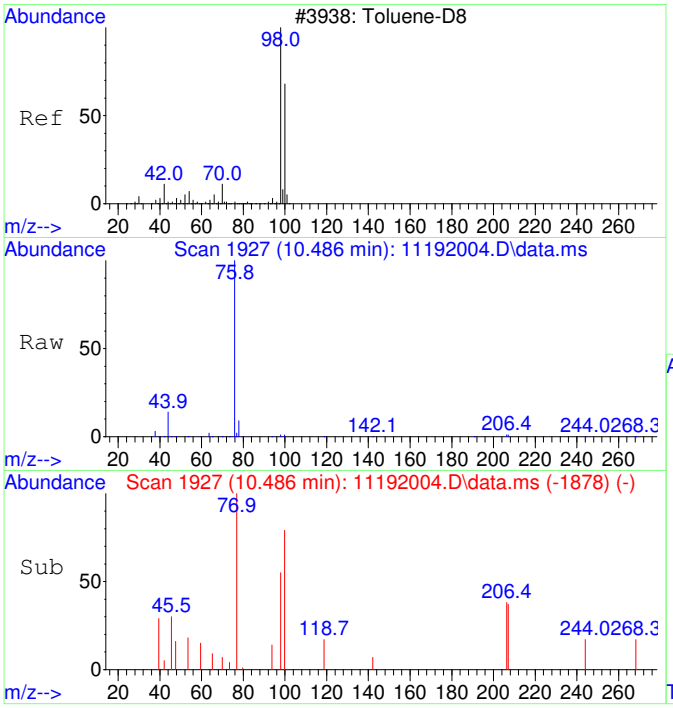


#35
Trichloroethene SCAN
Concen: 31.34 ug/L
RT: 8.557 min Scan# 1661
Delta R.T. -0.006 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:130 Resp: 378

Ion	Ratio	Lower	Upper
130	100		
95	77.2	60.5	120.5
132	0.0	59.6	119.6#
97	0.0	28.2	88.2#

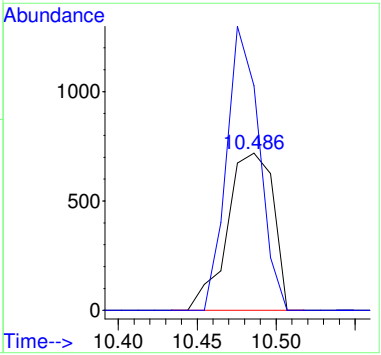


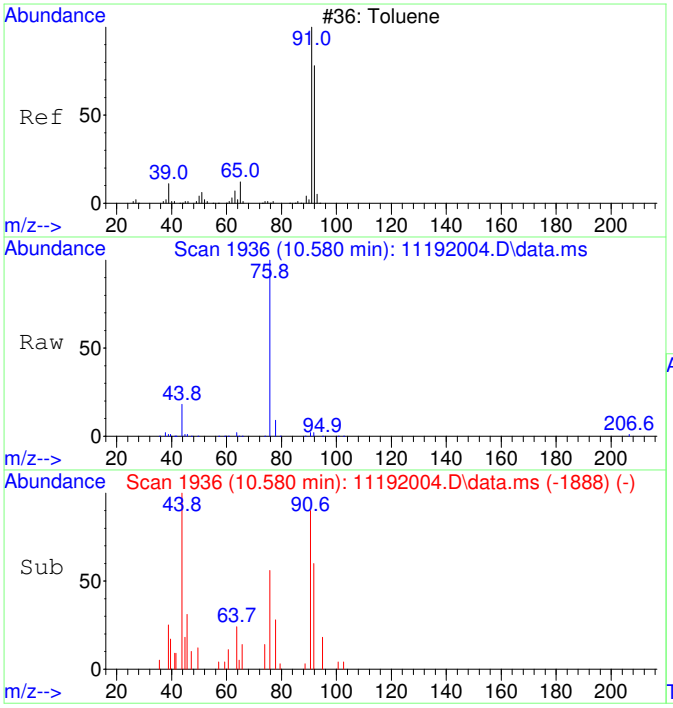


#36
Toluene-d8 SCAN
Concen: 30.15 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 98 Resp: 1459

Ion	Ratio	Lower	Upper
98	100		
100	128.1	40.0	100.0#

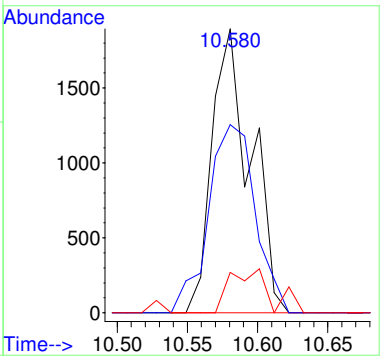


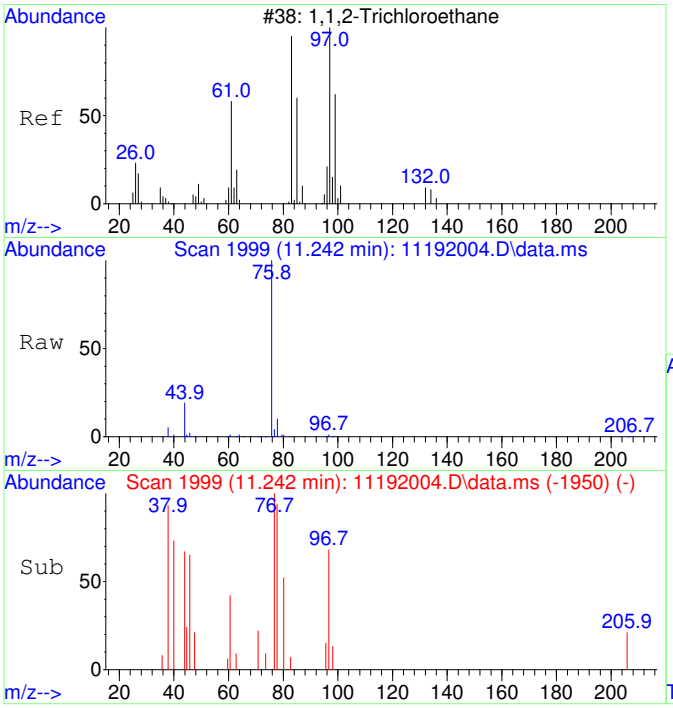


#37
Toluene SCAN
Concen: 58.81 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 3645

Ion	Ratio	Lower	Upper
91	100		
92	80.5	28.3	88.3
65	0.0	0.0	41.0

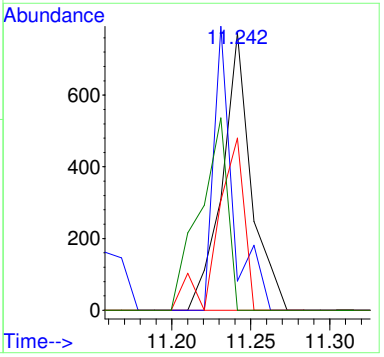


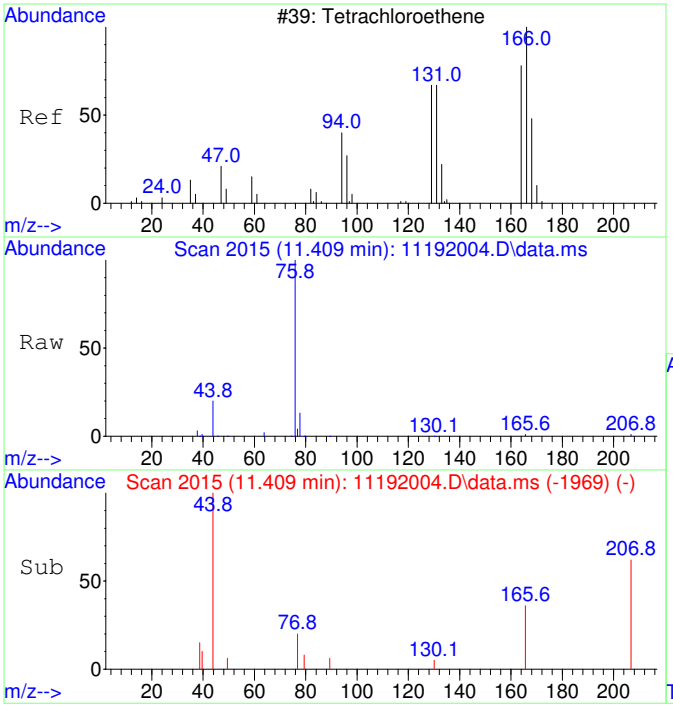


#38
1,1,2-Trichloroethane SCAN
Concen: 70.95 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 987

Ion	Ratio	Lower	Upper
97	100		
83	67.3	57.7	117.7
61	56.7	32.1	92.1
99	66.7	36.7	96.7

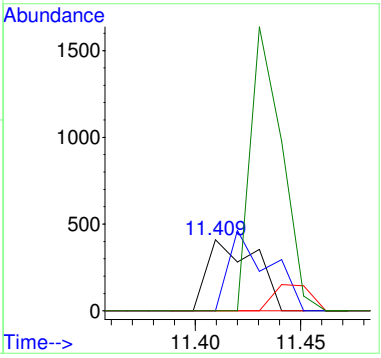


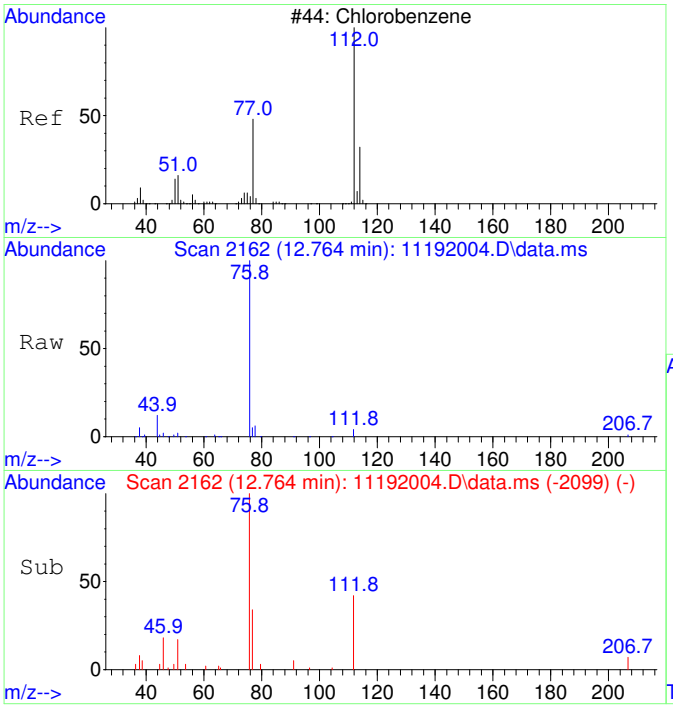


#39
Tetrachloroethene SCAN
Concen: 44.19 ug/L
RT: 11.409 min Scan# 2015
Delta R.T. -0.021 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:166 Resp: 658

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	0.0	38.7	98.7#
129	0.0	41.8	101.8#

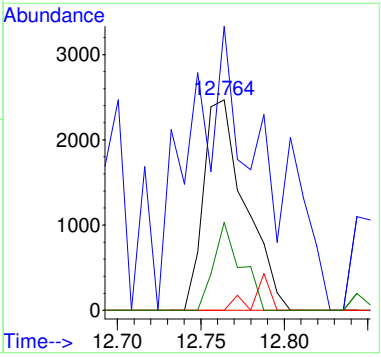


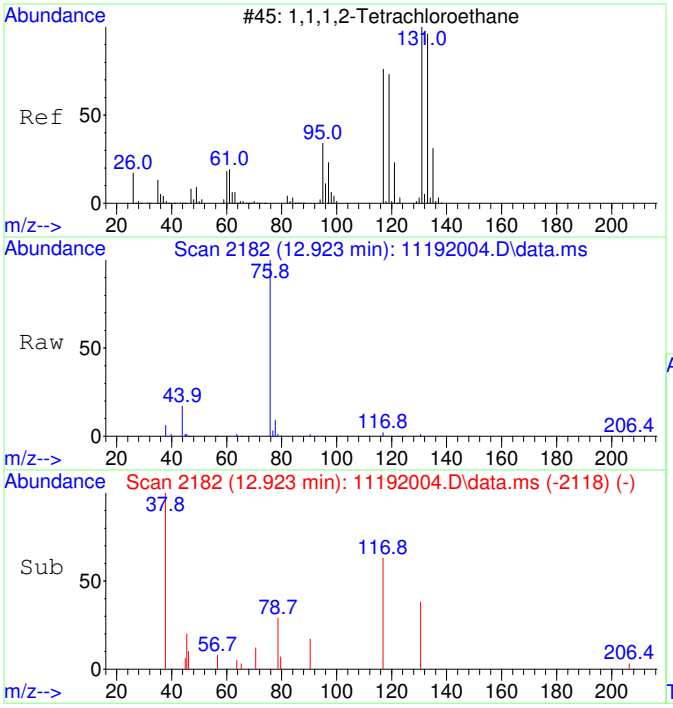


#40
Chlorobenzene SCAN
Concen: 101.72 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:112 Resp: 4308

Ion	Ratio	Lower	Upper
112	100		
77	242.9	28.2	88.2#
114	0.0	2.3	62.3#
51	27.3	0.0	50.1

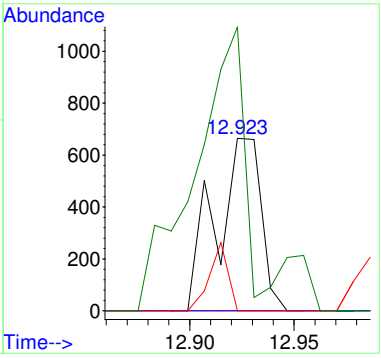


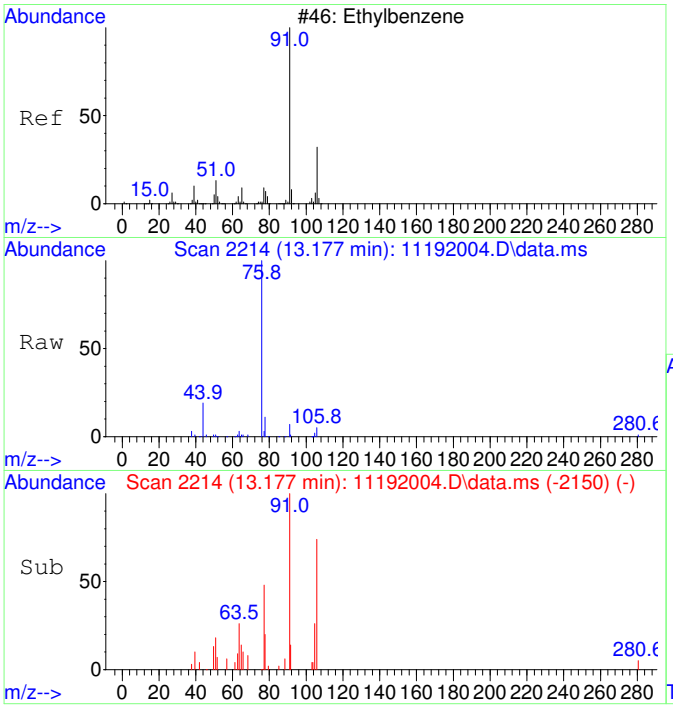


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 63.61 ug/L
RT: 12.923 min Scan# 2182
Delta R.T. 0.008 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:131 Resp: 997

Ion	Ratio	Lower	Upper
131	100		
133	0.0	66.9	126.9#
119	16.2	40.4	100.4#
117	167.4	35.1	95.1#

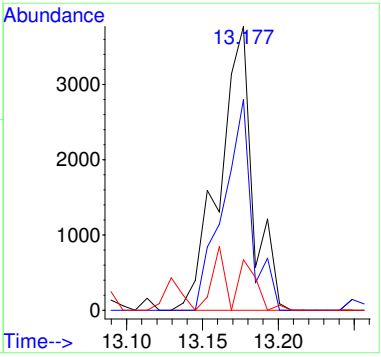


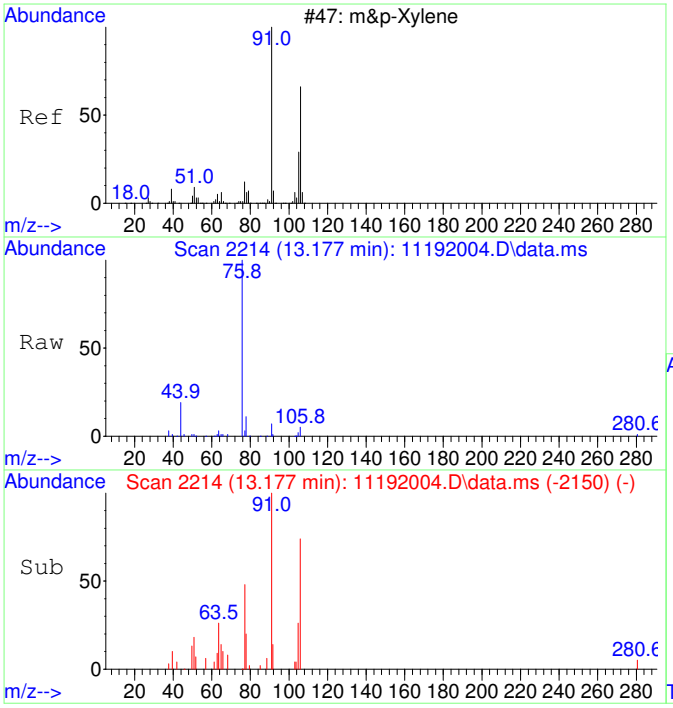


#42
Ethylbenzene SCAN
Concen: 51.37 ug/L
RT: 13.177 min Scan# 2214
Delta R.T. 0.008 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 5801

Ion	Ratio	Lower	Upper
91	100		
106	63.4	23.1	83.1
51	8.4	0.0	40.1

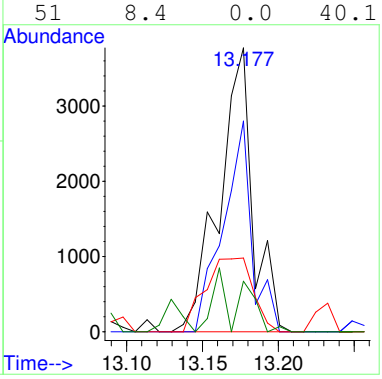


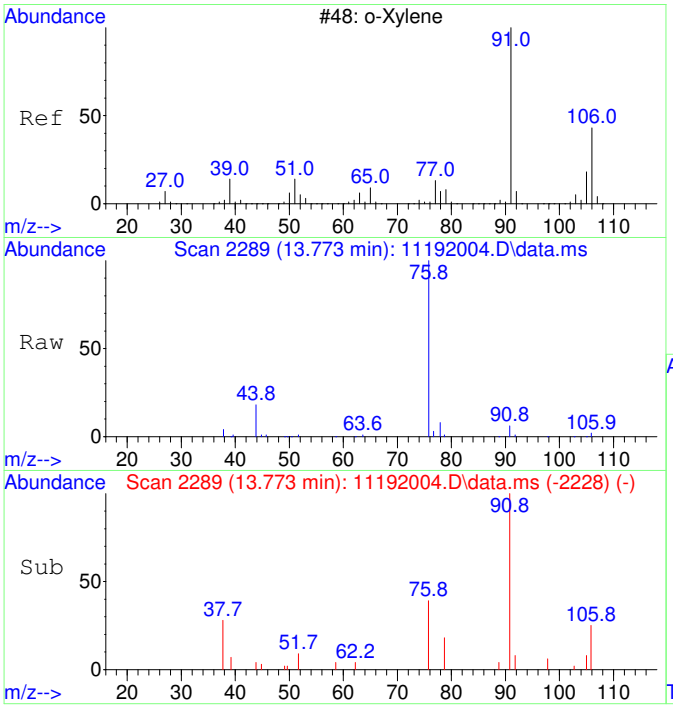


#43
m&p-Xylene SCAN
Concen: 51.37 ug/L
RT: 13.177 min Scan# 2214
Delta R.T. 0.008 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 5801

Ion	Ratio	Lower	Upper
91	100		
106	63.4	23.1	83.1
105	37.0	0.0	54.7
51	8.4	0.0	40.1

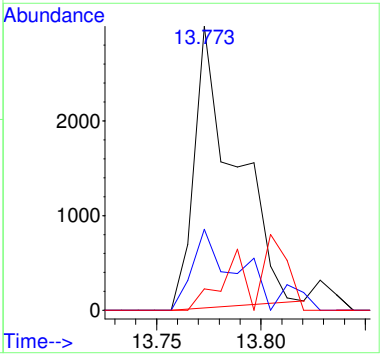


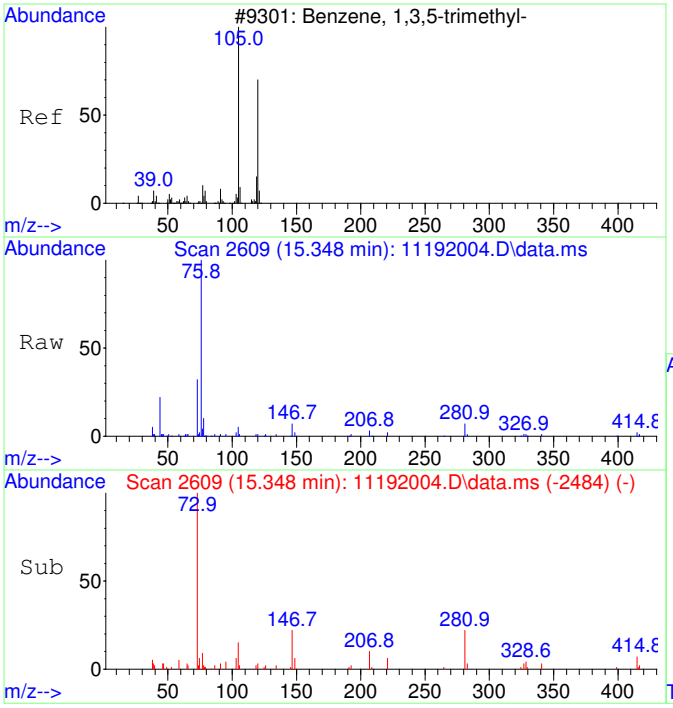


#44
o-Xylene SCAN
Concen: 68.13 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.016 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 4118

Ion	Ratio	Lower	Upper
91	100		
106	34.4	18.0	78.0
105	12.5	0.0	56.6

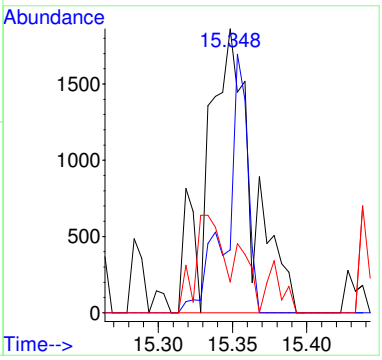


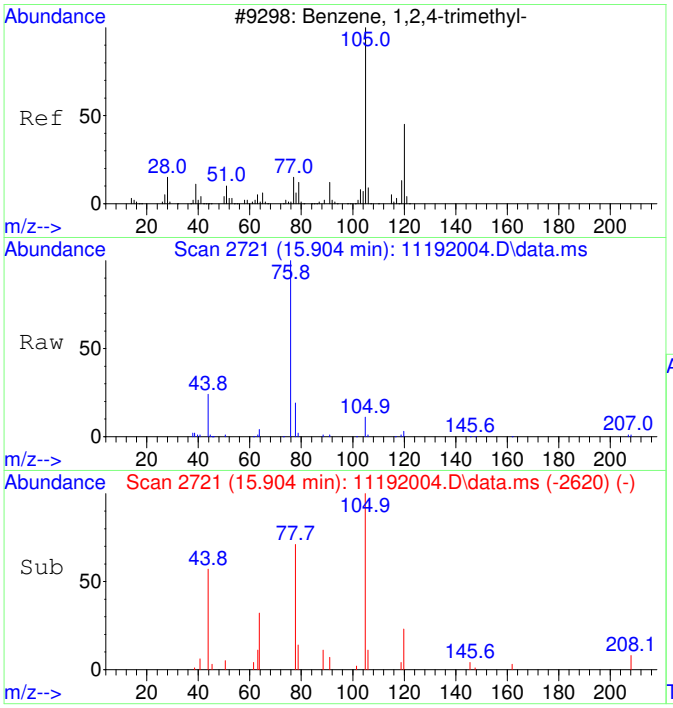


#46
1,3,5-Trimethylbenzene SCAN
Concen: 61.57 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 3922

Ion	Ratio	Lower	Upper
105	100		
120	42.0	18.3	78.3
119	5.5	0.0	43.1

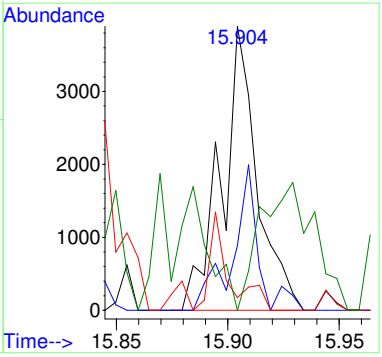


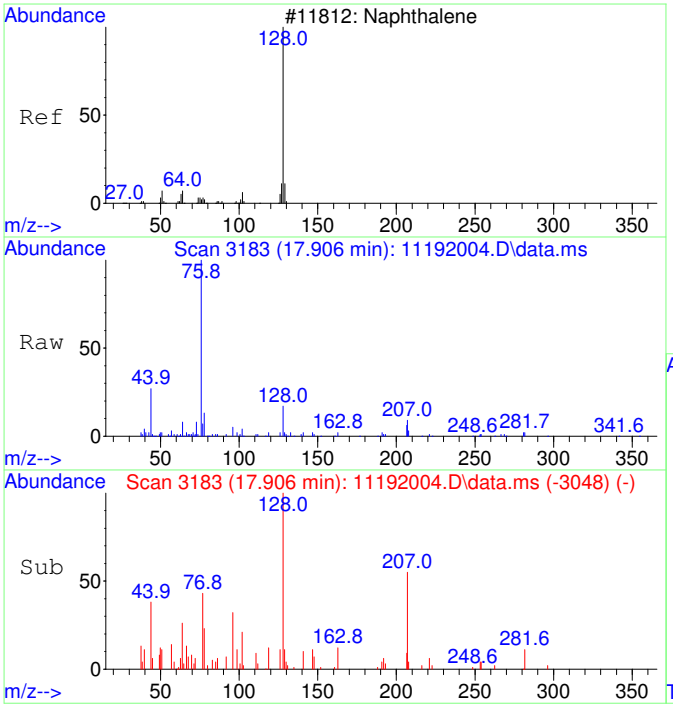


#47
1,2,4-Trimethylbenzene SCAN
Concen: 65.67 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 4280

Ion	Ratio	Lower	Upper
105	100		
120	36.8	16.9	76.9
119	23.3	0.0	41.9
77	0.0	0.0	42.3

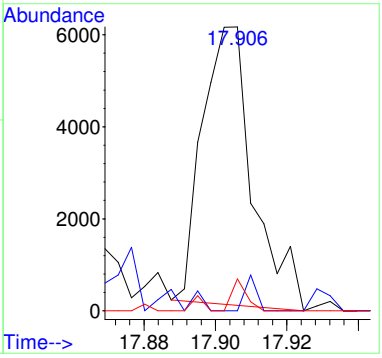




#48
Naphthalene SCAN
Concen: 60.34 ug/L
RT: 17.906 min Scan# 3183
Delta R.T. 0.001 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:128 Resp: 5951

Ion	Ratio	Lower	Upper
128	100		
127	2.9	0.0	44.0
129	3.3	0.0	40.8



B20K078-BLK1

Quantitation Report (Not Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192005.D
Acq On : 19 Nov 2020 9:57
InstName : AG5975C
Operator : TD
Sample : B20K078-BLK1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 23 08:13:37 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

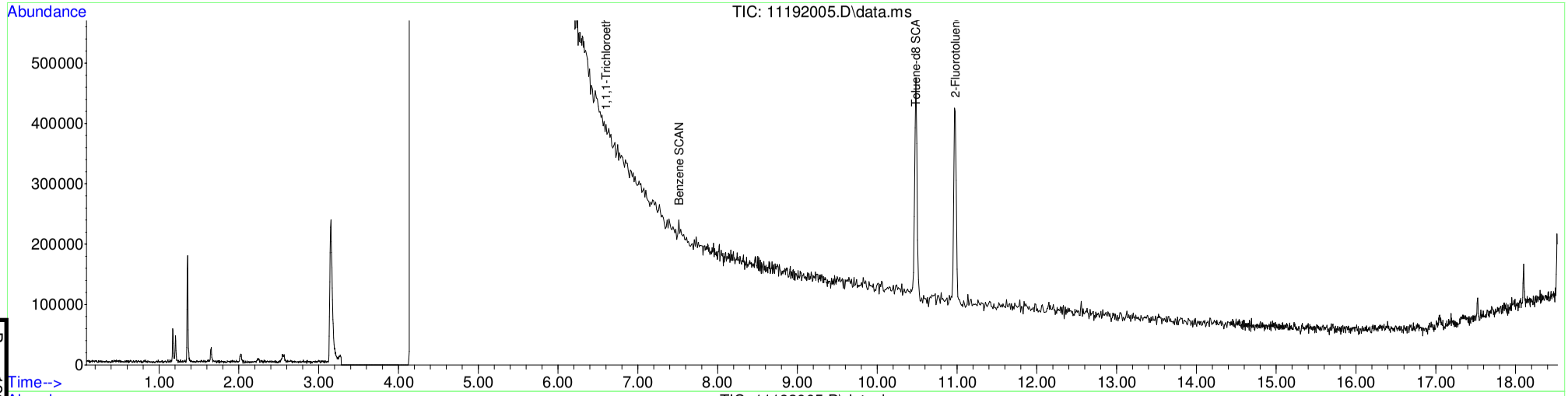
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	587452	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	504141	4383.83	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.68%			
Target Compounds						Qvalue
9] Benzene	7.503	78	6300	63.12	ug/L	43 NT
25) 2-Fluorotoluene SCAN	10.979	109	295200	5154.92	ug/L	99
31) 1,1,1-Trichloroethane ...	6.601	97	515	27.92	ug/L #	19
33) Benzene SCAN	7.514	78	17167	338.05	ug/L #	91
36) Toluene-d8 SCAN	10.486	98	266443	4757.56	ug/L	94

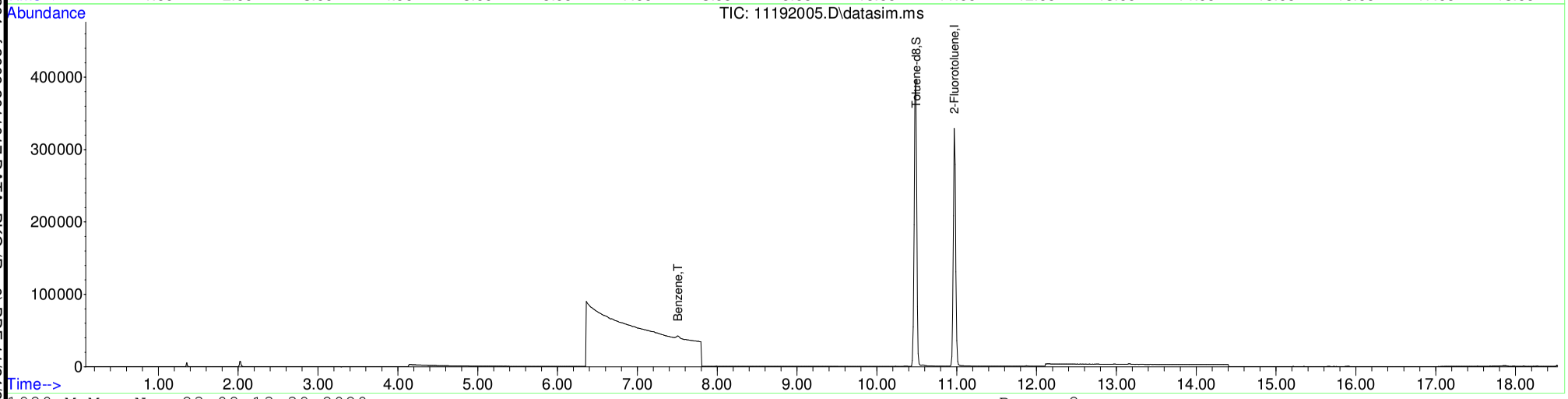
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192005.D
Acq On : 19 Nov 2020 9:57
InstName : AG5975C
Operator : TD
Sample : B20K078-BLK1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 23 08:13:37 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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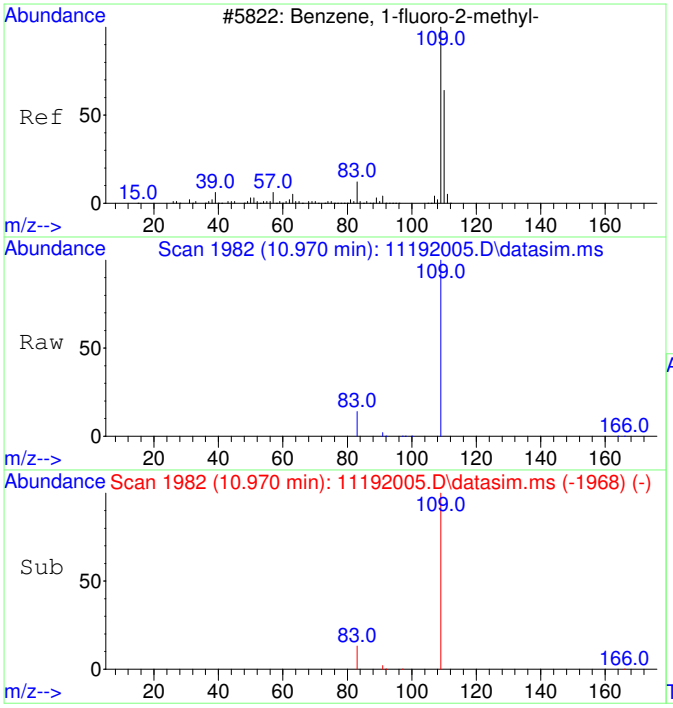
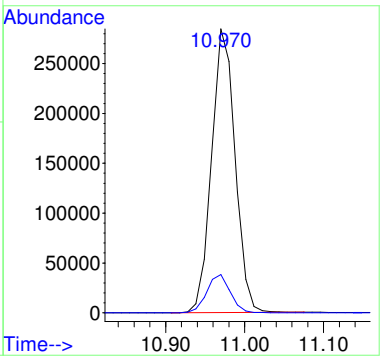
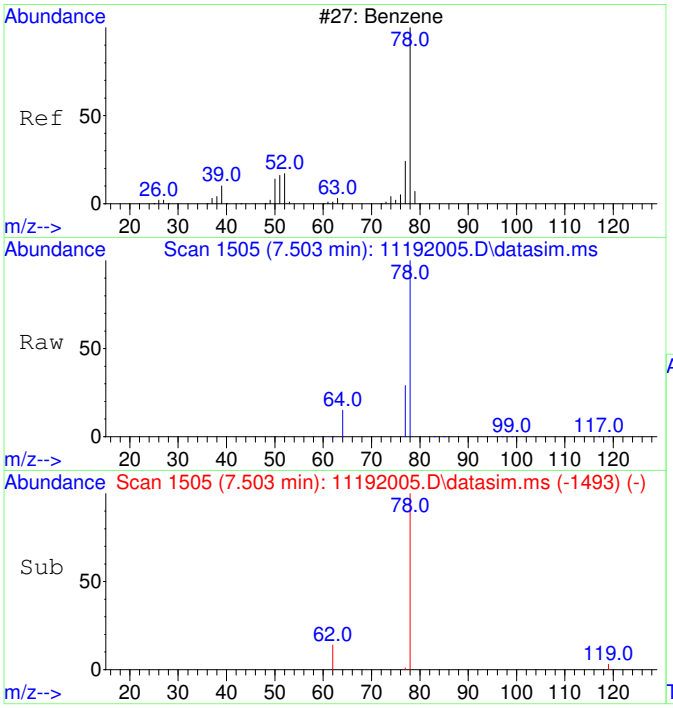


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11192005.D
Acq: 19 Nov 2020 9:57

Tgt Ion:109 Resp: 587452

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

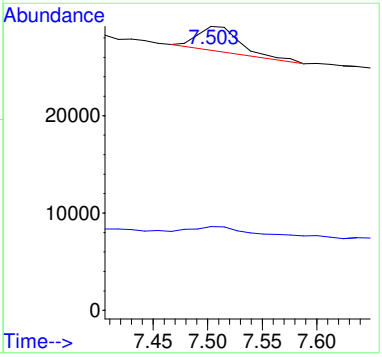


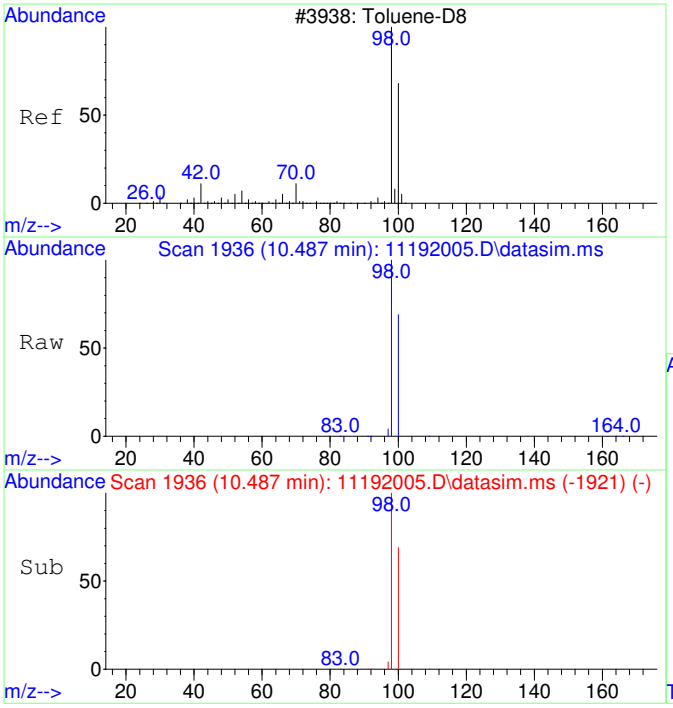


#9
Benzene
Concen: 63.12 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192005.D
Acq: 19 Nov 2020 9:57

Tgt Ion: 78 Resp: 6300

Ion	Ratio	Lower	Upper
78	100		
77	51.2	0.0	53.2

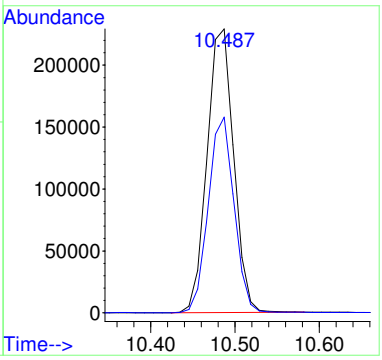


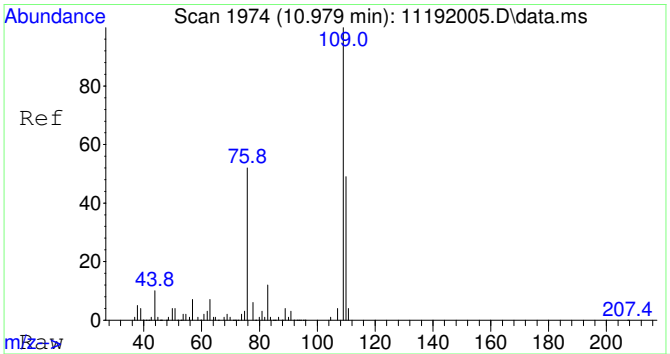


#12
Toluene-d8
Concen: 4383.83 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11192005.D
Acq: 19 Nov 2020 9:57

Tgt Ion: 98 Resp: 504141

Ion	Ratio	Lower	Upper
98	100		
100	66.7	37.1	97.1

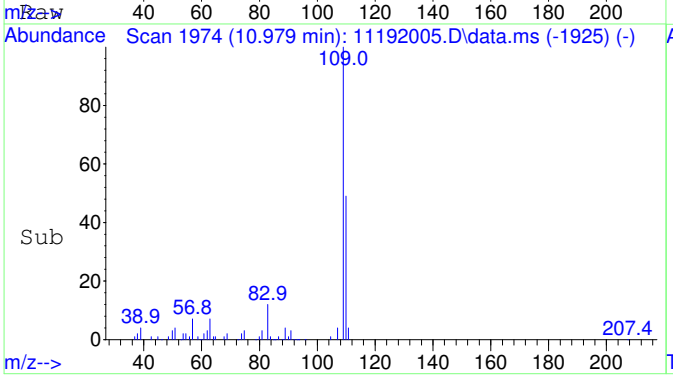


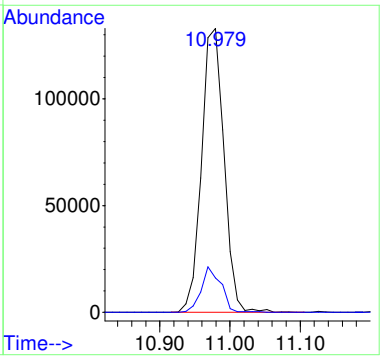


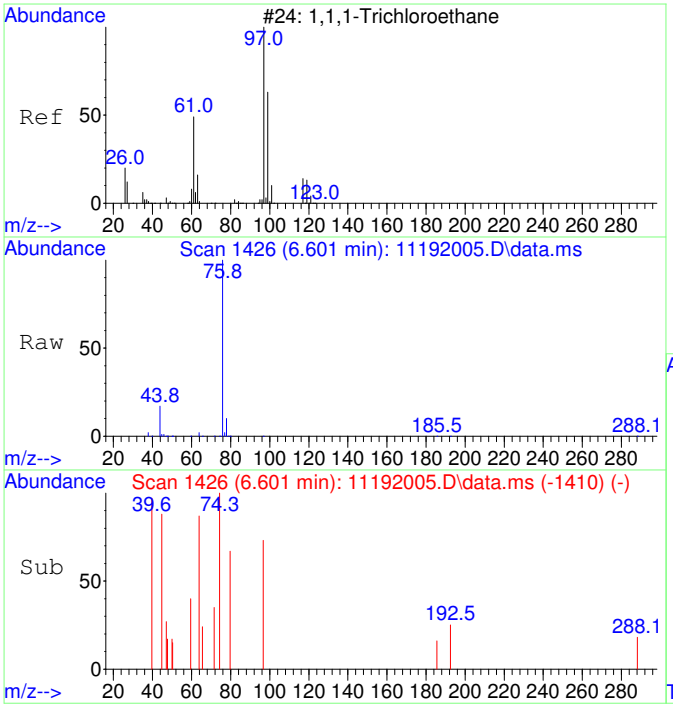
#25
2-Fluorotoluene SCAN
Concen: 5154.92 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11192005.D
Acq: 19 Nov 2020 9:57

Tgt Ion:109 Resp: 295200

Ion	Ratio	Lower	Upper
109	100		
83	14.2	0.0	43.8



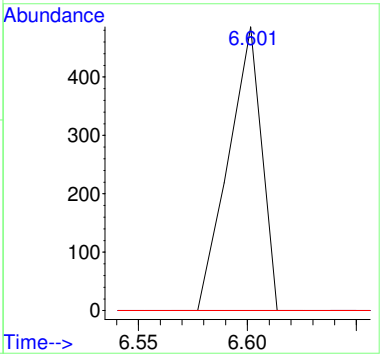


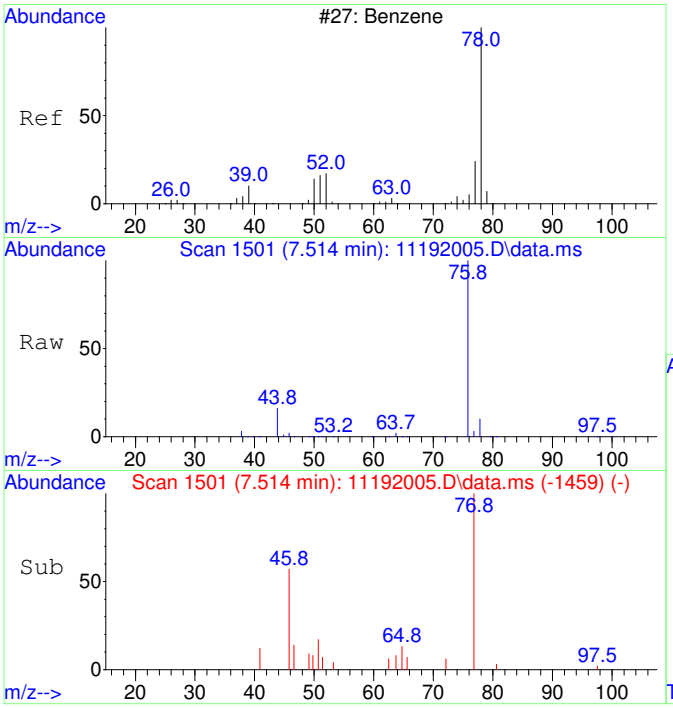


#31
1,1,1-Trichloroethane SCAN
Concen: 27.92 ug/L
RT: 6.601 min Scan# 1426
Delta R.T. -0.304 min
Lab File: 11192005.D
Acq: 19 Nov 2020 9:57

Tgt Ion: 97 Resp: 515

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	0.0	18.0	78.0#

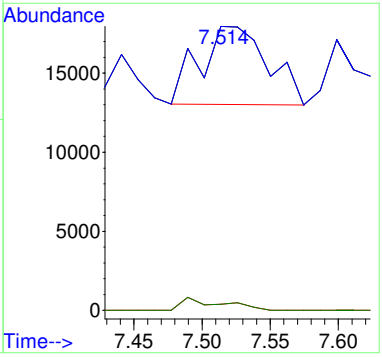


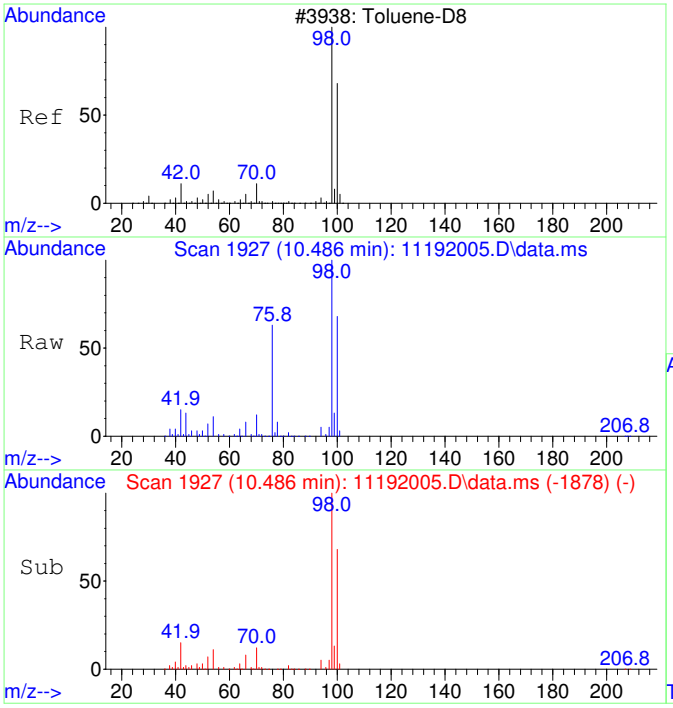


#33
Benzene SCAN
Concen: 338.05 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11192005.D
Acq: 19 Nov 2020 9:57

Tgt Ion: 78 Resp: 17167

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.0	0.0	47.9
51	0.0	0.0	44.1

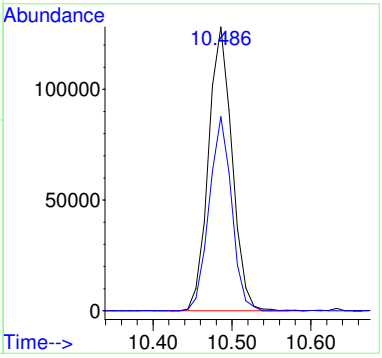




#36
Toluene-d8 SCAN
Concen: 4757.56 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192005.D
Acq: 19 Nov 2020 9:57

Tgt Ion: 98 Resp: 266443

Ion	Ratio	Lower	Upper
98	100		
100	64.8	40.0	100.0



B20K078-BS1

Blanks Spike or Blank Spike Duplicate

Instrument Name: AG5975C
Sample Name: B20K078-BS1
Misc Info: 0
Date Acquired: 11/19/2020
QLast Update: Mon Nov 16 10:20:51 2020
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.970	5000	5000.00	100%	70	130	pass
2)	**1,1-Dichloroethene**	**3.086**	**5000**	**3244.81**	**65%**	**22**	**143**	**pass**
3)	**trans-1,2-Dichloroethene**	**4.343**	**5000**	**3375.94**	**68%**	**35**	**133**	**pass**
4)	**1,1-Dichloroethane**	**5.066**	**5000**	**3499.89**	**70%**	**43**	**140**	**pass**
5)	**cis-1,2-Dichloroethene**	**6.074**	**5000**	**3572.11**	**71%**	**49**	**134**	**pass**
6)	**Chloroform**	**6.639**	**5000**	**3693.42**	**74%**	**56**	**132**	**pass**
7)	**1,1,1-Trichloroethane**	**6.907**	**5000**	**3704.22**	**74%**	**58**	**131**	pass
8)	Carbon tetrachloride	7.175	5000	3697.50	74%	60	126	pass
9)	Benzene	7.503	5000	3697.13	74%	63	121	pass
10)	1,2-Dichloroethane	7.540	5000	3617.00	72%	57	128	pass
11)	**Trichloroethene**	**8.564**	**5000**	**4004.94**	**80%**	**69**	**124**	**pass**
12)	Toluene-d8	10.477	5000	4429.84	89%	70	130	pass
13)	Toluene	10.571	5000	3859.26	77%	77	111	pass
14)	1,1,2-Trichloroethane	11.222	5000	4098.58	82%	76	115	pass
15)	**Tetrachloroethene**	**11.432**	**5000**	**4140.03**	**83%**	**69**	**124**	**pass**
16)	Chlorobenzene	12.765	5000	3953.49	79%	64	122	pass
17)	1,1,1,2-Tetrachloroethane	12.916	5000	4253.23	85%	68	130	**pass**
18)	Ethylbenzene	12.972	5000	4222.61	84%	70	130	pass
19)	m&p-Xylene	13.163	10000	7984.42	80%	66	129	pass
20)	o-Xylene	13.782	5000	3815.64	76%	63	121	pass
21)	1,1,2,2-Tetrachloroethane	14.877	5000	4027.42	81%	55	132	pass
22)	1,3,5-Trimethylbenzene	15.345	5000	4244.09	85%	61	140	pass
23)	1,2,4-Trimethylbenzene	15.901	5000	3883.37	78%	54	143	pass
25)	2-Fluorotoluene SCAN	10.969	5000	4883.40	98%	20	110	pass
27)	trans-1,2-Dichloroethene SCAN	4.348	5000	3870.48	77%	83	110	FAIL
29)	cis-1,2-Dichloroethene SCAN	6.073	5000	3916.11	78%	58	118	pass
31)	1,1,1-Trichloroethane SCAN	6.906	5000	4280.97	86%	59	119	pass
33)	Benzene SCAN	7.502	5000	4078.61	82%	69	129	pass
35)	Trichloroethene SCAN	8.563	5000	3850.11	77%	69	129	pass
37)	Toluene SCAN	10.580	5000	4112.06	82%	66	126	pass
39)	Tetrachloroethene SCAN	11.431	5000	4348.74	87%	59	119	pass
41)	1,1,1,2-Tetrachloroethane SCAN	12.915	5000	4022.18	80%	62	122	pass
43)	m&p-Xylene SCAN	13.169	5000	4092.53	82%	68	128	pass
45)	1,1,2,2-Tetrachloroethane SCAN	14.872	5000	4023.71	80%	63	123	pass
47)	1,2,4-Trimethylbenzene SCAN	15.904	5000	4148.21	83%	20	110	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192006.D
Acq On : 19 Nov 2020 10:20
InstName : AG5975C
Operator : TD
Sample : B20K078-BS1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 23 08:13:42 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

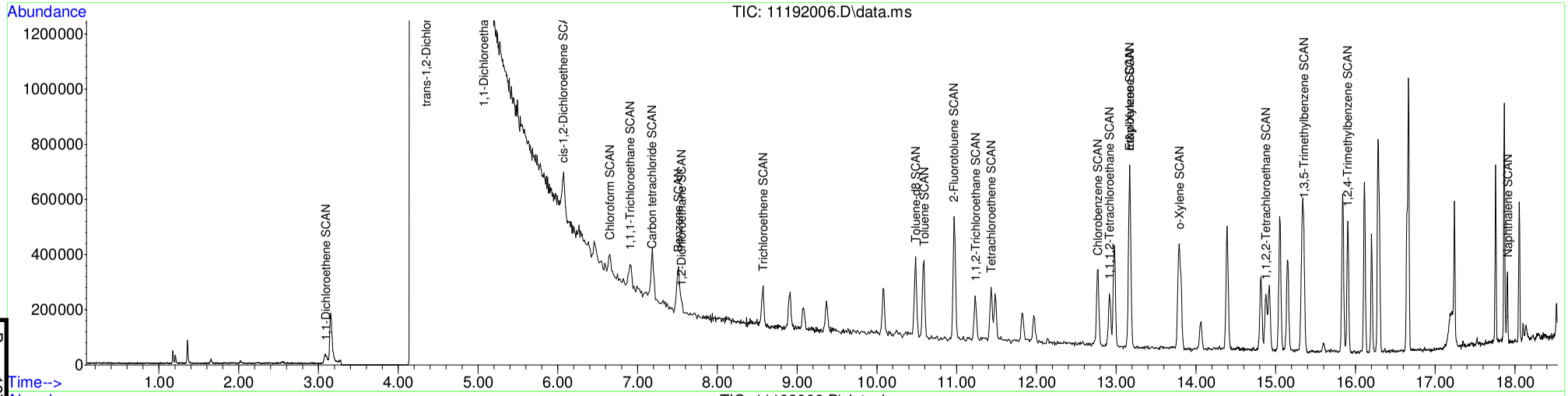
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	488823	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	423902	4429.84 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.60%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	63337	3244.81 ug/L	86
3] trans-1,2-Dichloroethene	4.343	61	76135	3375.94 ug/L	98
4] 1,1-Dichloroethane	5.066	63	98253	3499.89 ug/L	99
5] cis-1,2-Dichloroethene	6.074	61	105853	3572.11 ug/L	99
6] Chloroform	6.639	83	112024	3693.42 ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	122015	3704.22 ug/L	99
8] Carbon tetrachloride	7.175	117	114633	3697.50 ug/L	99
9] Benzene	7.503	78	307060	3697.13 ug/L	98
10] 1,2-Dichloroethane	7.539	62	107238	3617.00 ug/L	99
11] Trichloroethene	8.569	130	100149	4004.94 ug/L	95
13] Toluene	10.582	91	470826	3859.26 ug/L	99
14] 1,1,2-Trichloroethane	11.232	97	108955	4098.58 ug/L	97
15] Tetrachloroethene	11.432	166	146169	4140.03 ug/L	100
16] Chlorobenzene	12.765	112	345360	3953.49 ug/L	95
17] 1,1,1,2-Tetrachloroethane	12.916	131	133132	4253.23 ug/L	100
18] Ethylbenzene	12.972	91	627051	4222.61 ug/L	98
19] m&p-Xylene	13.162	91	926678	7984.42 ug/L	97
20] o-Xylene	13.782	91	473124	3815.64 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.877	83	221323	4027.42 ug/L	100
22] 1,3,5-Trimethylbenzene	15.350	105	560131	4244.09 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	532357	3883.37 ug/L	97
24] Naphthalene	17.902	128	242105	1117.42 ug/L	99
25) 2-Fluorotoluene SCAN	10.969	109	232700	4883.40 ug/L	93
26) 1,1-Dichloroethene SCAN	3.092	61	33383	3298.81 ug/L	86
27) trans-1,2-Dichloroethe...	4.348	61	48468	3870.48 ug/L	78
28) 1,1-Dichloroethane SCAN	5.071	63	57293	3953.33 ug/L	96
29) cis-1,2-Dichloroethene...	6.066	61	60806	3916.11 ug/L	84
30) Chloroform SCAN	6.650	83	65788	3906.34 ug/L	91
31) 1,1,1-Trichloroethane ...	6.906	97	65701	4280.97 ug/L	88
32) Carbon tetrachloride SCAN	7.173	117	53738	3356.77 ug/L	90
33) Benzene SCAN	7.514	78	172348	4078.61 ug/L	97
34) 1,2-Dichloroethane SCAN	7.550	62	55900	3582.56 ug/L	96
35) Trichloroethene SCAN	8.573	130	44709	3850.11 ug/L	79
36) Toluene-d8 SCAN	10.486	98	214124	4594.79 ug/L	98
37) Toluene SCAN	10.591	91	245408	4112.06 ug/L	97
38) 1,1,2-Trichloroethane ...	11.231	97	51681	3858.04 ug/L	91
39) Tetrachloroethene SCAN	11.430	166	62352	4348.74 ug/L	93
40) Chlorobenzene SCAN	12.764	112	162878	3993.99 ug/L	93
41) 1,1,1,2-Tetrachloroeth...	12.915	131	60703	4022.18 ug/L	97
42) Ethylbenzene SCAN	13.169	91	444967	4092.53 ug/L	96
43) m&p-Xylene SCAN	13.169	91	444967	4092.53 ug/L	96
44) o-Xylene SCAN	13.789	91	226603	3893.61 ug/L	98
45) 1,1,2,2-Tetrachloroeth...	14.875	83	114187	4023.71 ug/L	99
46) 1,3,5-Trimethylbenzene...	15.348	105	252401	4115.08 ug/L	97
47) 1,2,4-Trimethylbenzene...	15.904	105	260341	4148.21 ug/L	94
48) Naphthalene SCAN	17.905	128	106490	1121.35 ug/L	99

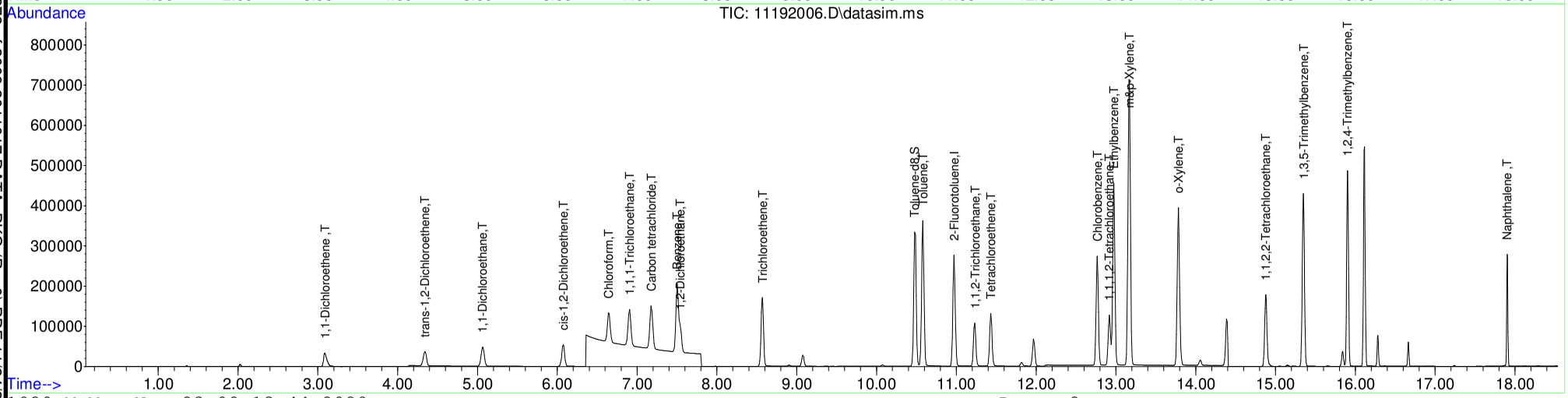
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192006.D
Acq On : 19 Nov 2020 10:20
InstName : AG5975C
Operator : TD
Sample : B20K078-BS1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 23 08:13:42 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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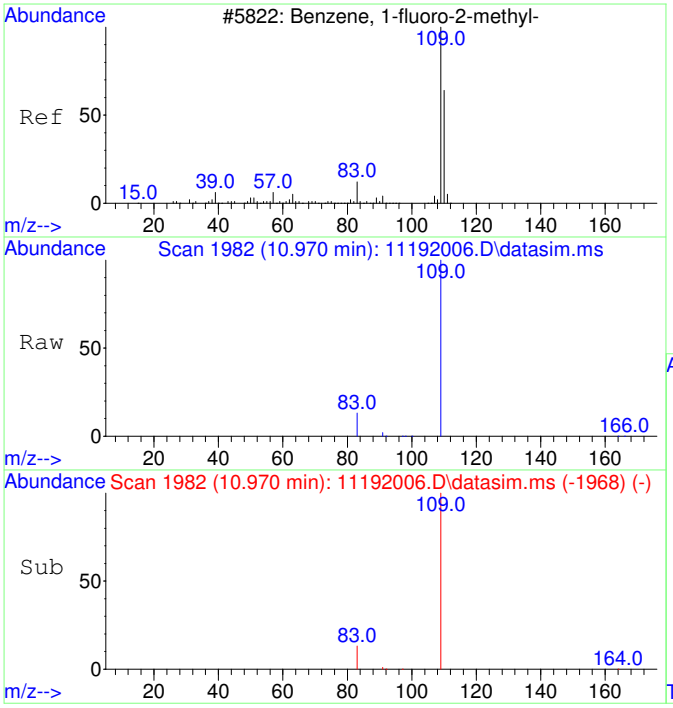
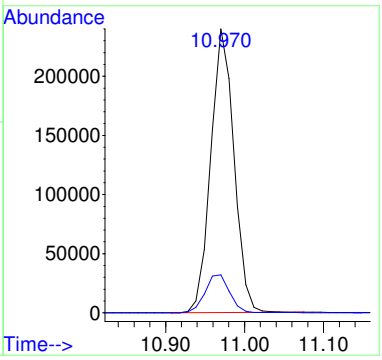
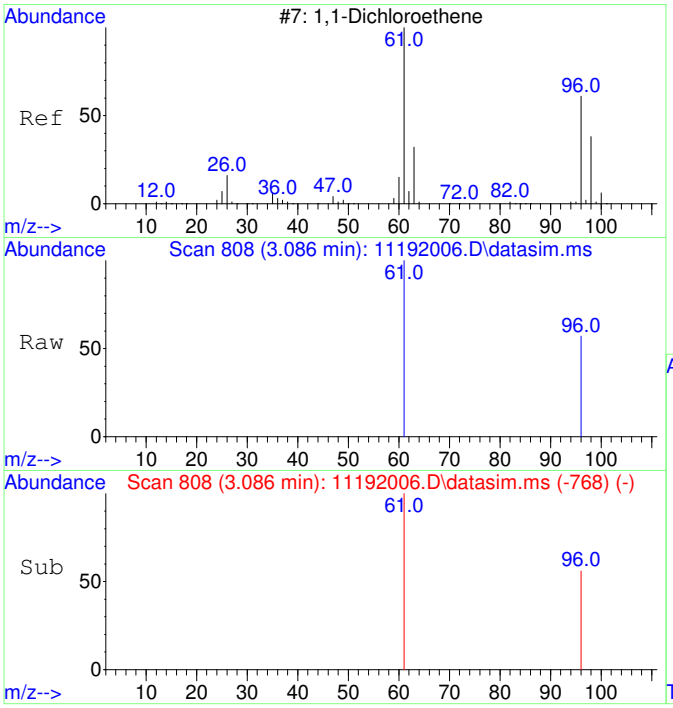


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:109 Resp: 488823

Ion	Ratio	Lower	Upper
109	100		
83	14.1	0.0	42.3

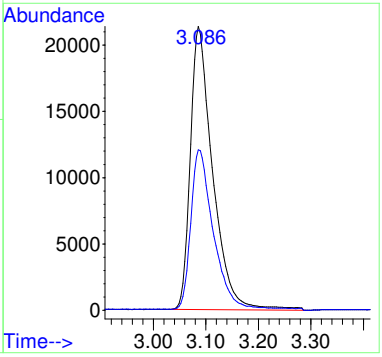


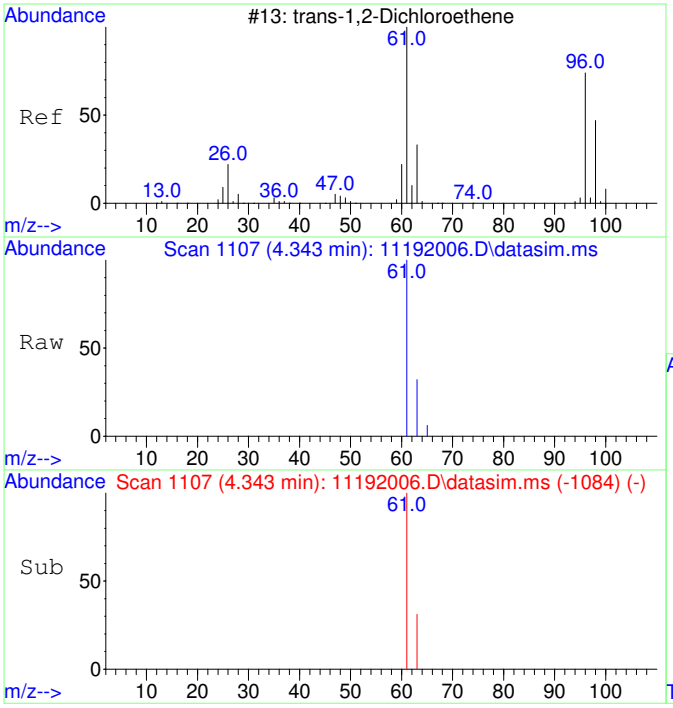


#2
1,1-Dichloroethene
Concen: 3244.81 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 61 Resp: 63337

Ion	Ratio	Lower	Upper
61	100		
96	55.6	37.2	97.2

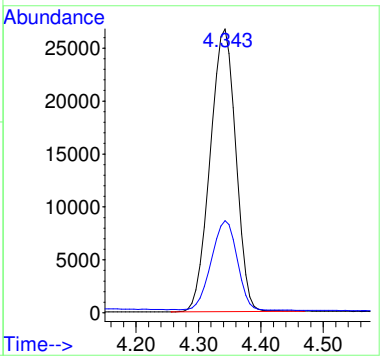


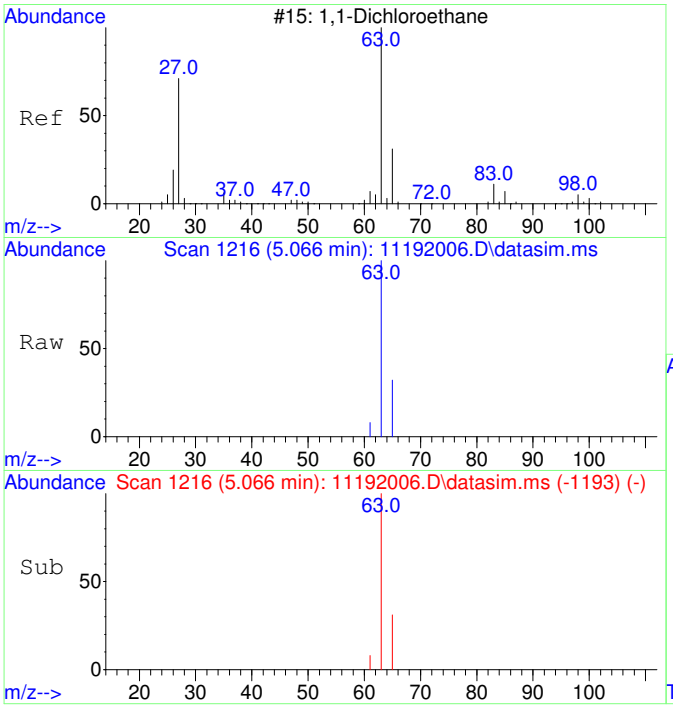


#3
trans-1,2-Dichloroethene
Concen: 3375.94 ug/L
RT: 4.343 min Scan# 1107
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 61 Resp: 76135

Ion	Ratio	Lower	Upper
61	100		
63	31.5	2.4	62.4

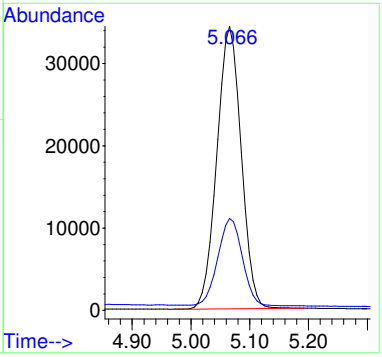


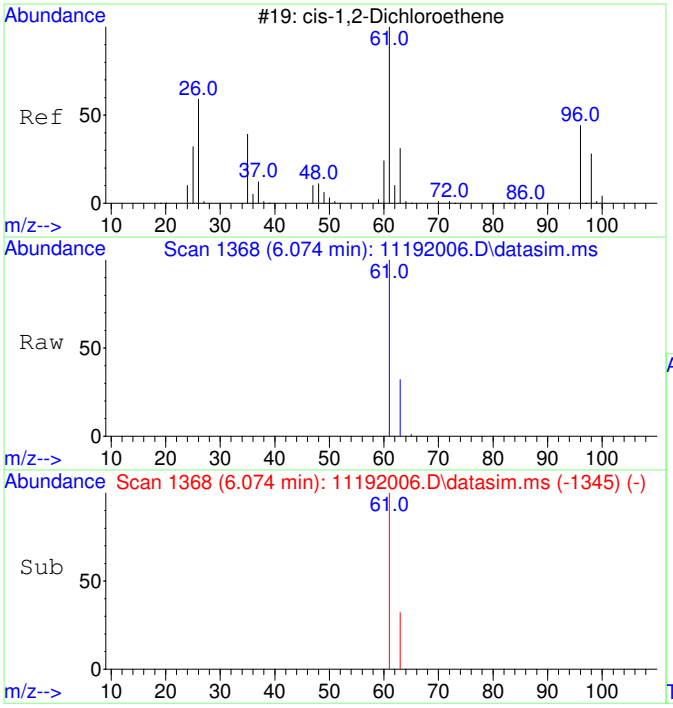


#4
1,1-Dichloroethane
Concen: 3499.89 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 63 Resp: 98253

Ion	Ratio	Lower	Upper
63	100		
65	31.0	1.8	61.8

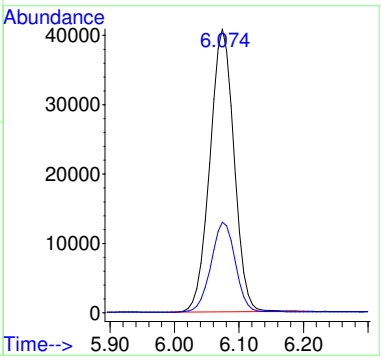


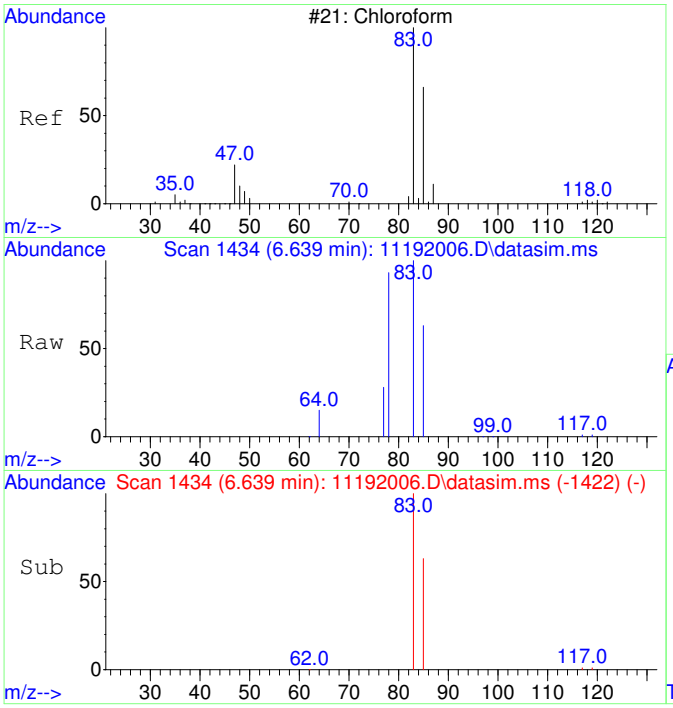


#5
cis-1,2-Dichloroethene
Concen: 3572.11 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 61 Resp: 105853

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

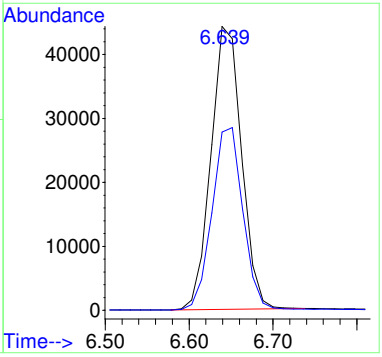


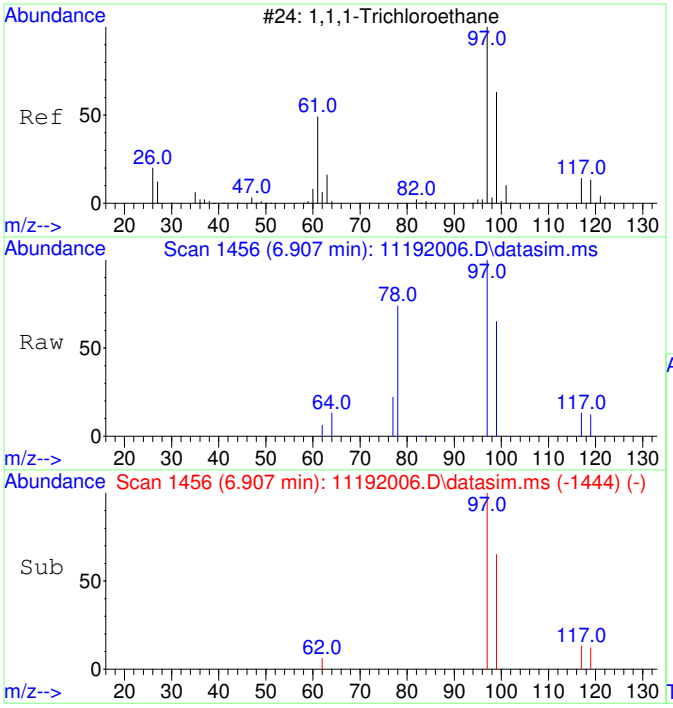


#6
Chloroform
Concen: 3693.42 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 83 Resp: 112024

Ion	Ratio	Lower	Upper
83	100		
85	64.6	35.1	95.1

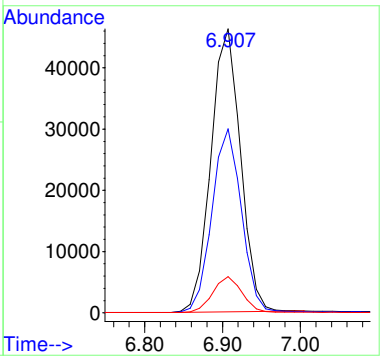


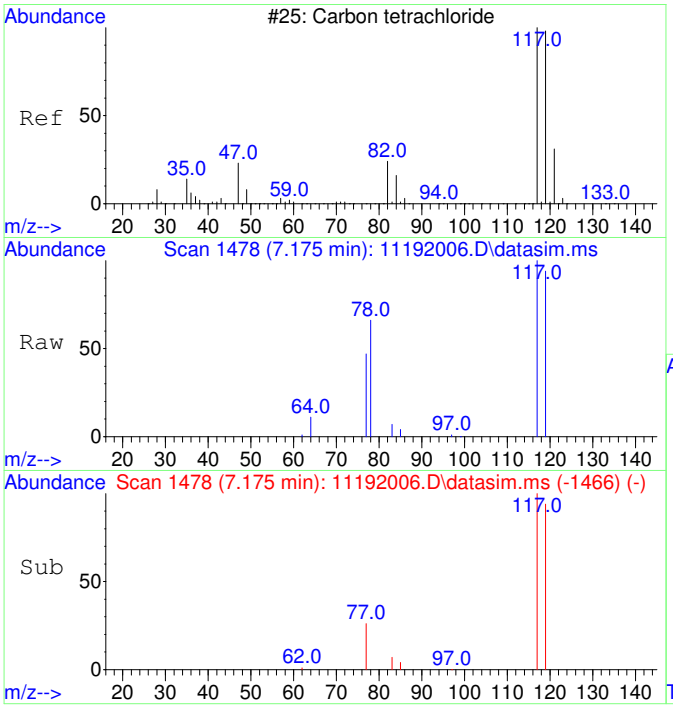


#7
1,1,1-Trichloroethane
Concen: 3704.22 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 97 Resp: 122015

Ion	Ratio	Lower	Upper
97	100		
99	64.2	34.6	94.6
117	12.4	0.0	43.2

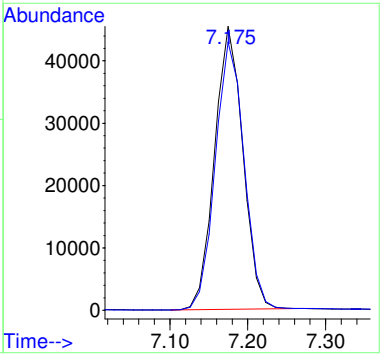


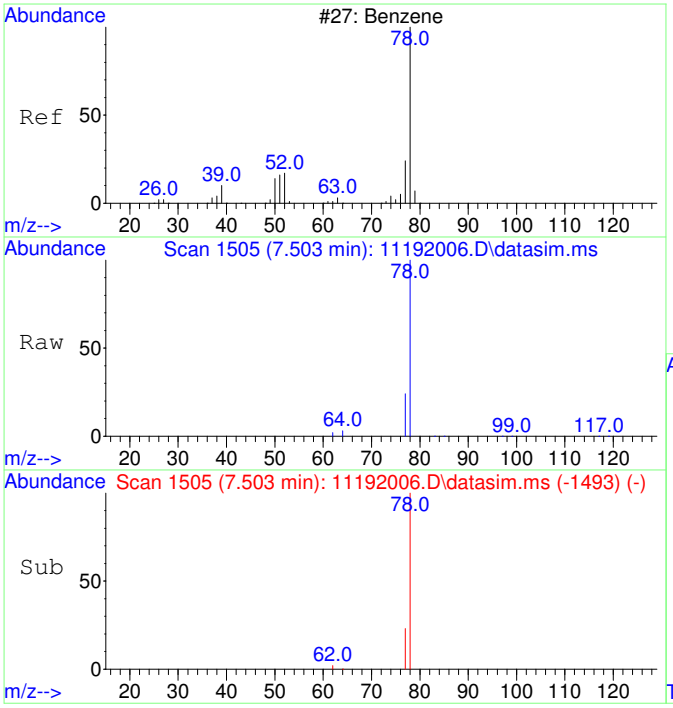


#8
Carbon tetrachloride
Concen: 3697.50 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:117 Resp: 114633

Ion	Ratio	Lower	Upper
117	100		
119	95.8	66.4	126.4

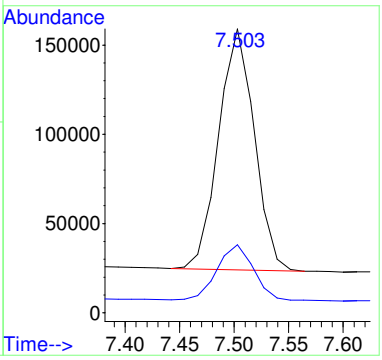


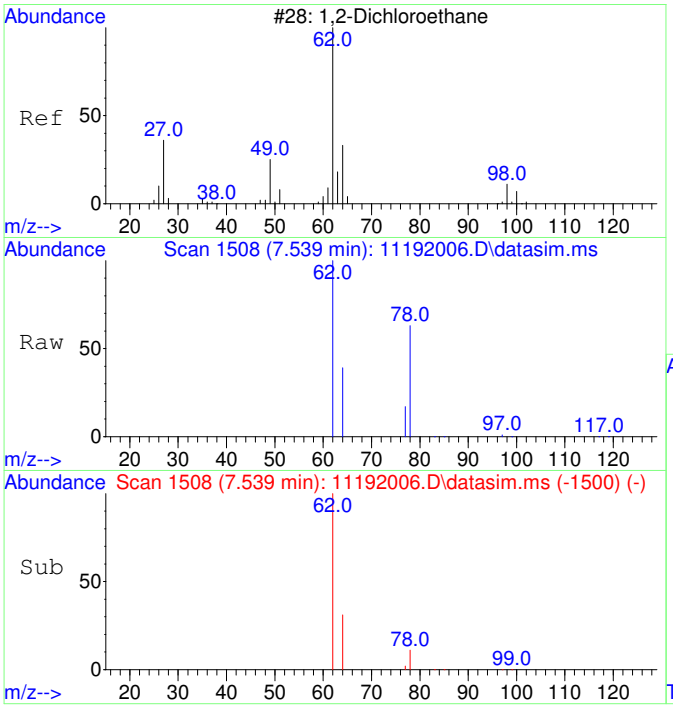


#9
Benzene
Concen: 3697.13 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 78 Resp: 307060

Ion	Ratio	Lower	Upper
78	100		
77	24.4	0.0	53.2

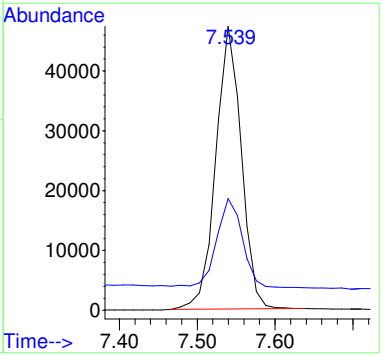


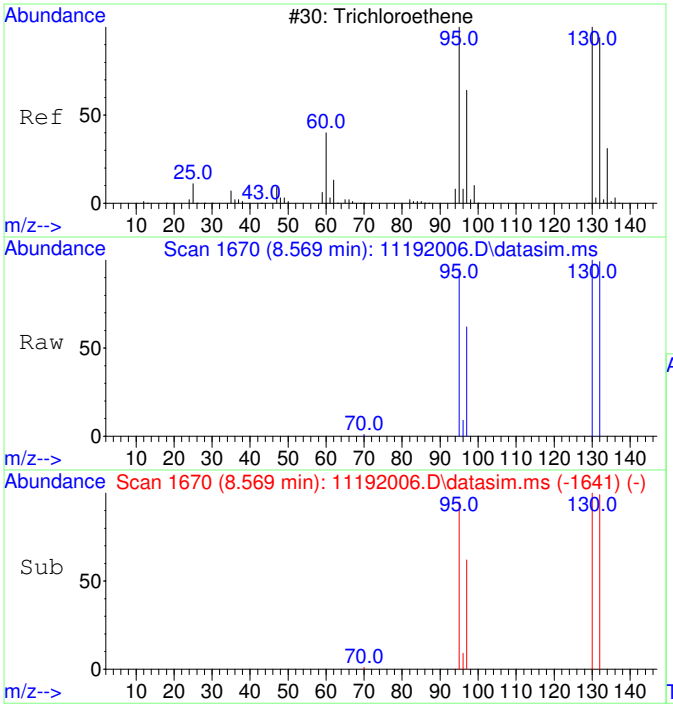


#10
1,2-Dichloroethane
Concen: 3617.00 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 62 Resp: 107238

Ion	Ratio	Lower	Upper
62	100		
64	32.0	2.3	62.3

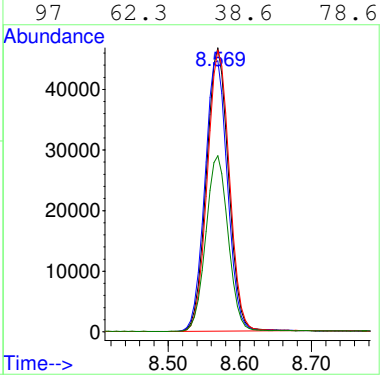


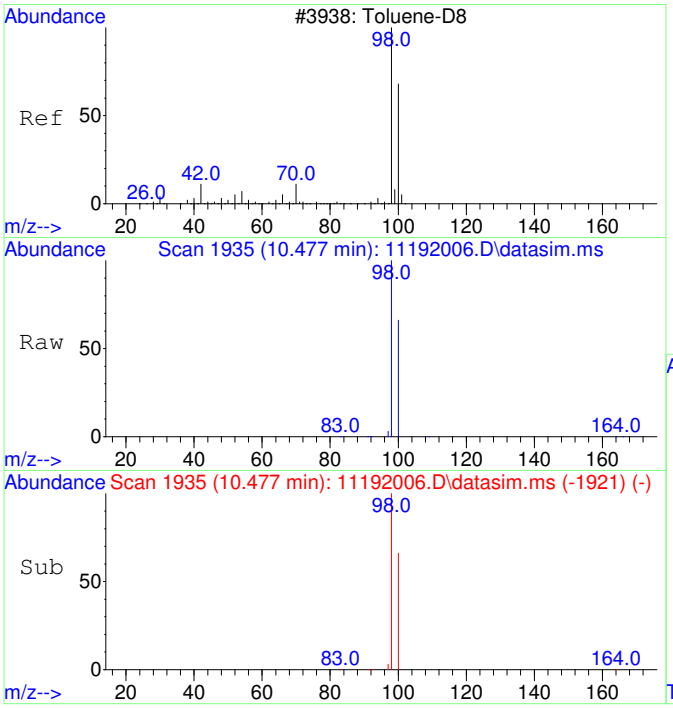


#11
Trichloroethene
Concen: 4004.94 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:130 Resp: 100149

Ion	Ratio	Lower	Upper
130	100		
95	97.7	60.7	120.7
132	99.3	76.0	116.0
97	62.3	38.6	78.6

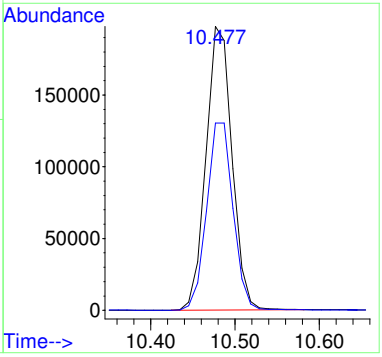


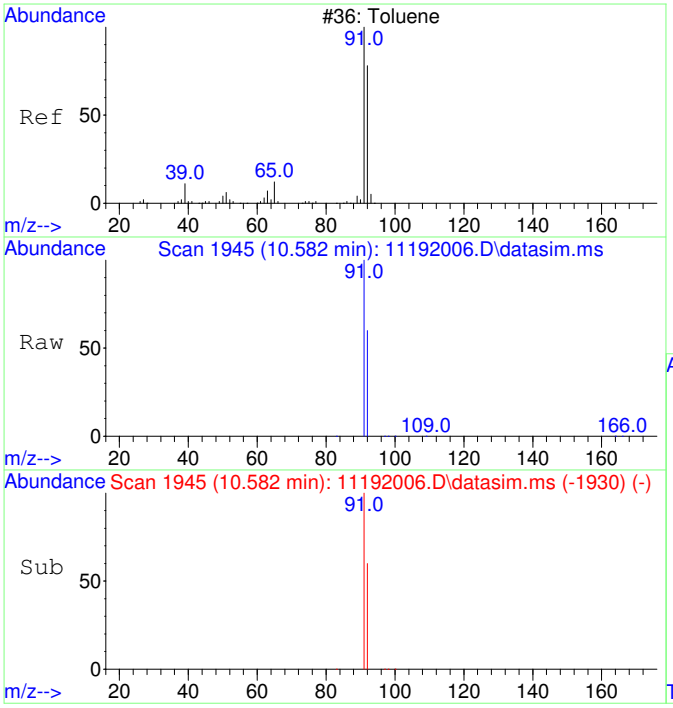


#12
Toluene-d8
Concen: 4429.84 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 98 Resp: 423902

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.1	97.1

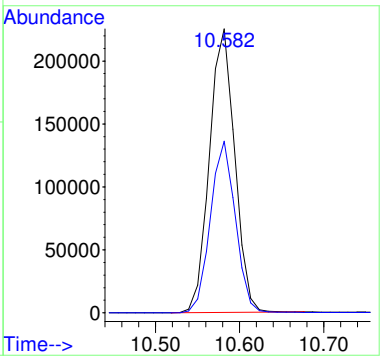


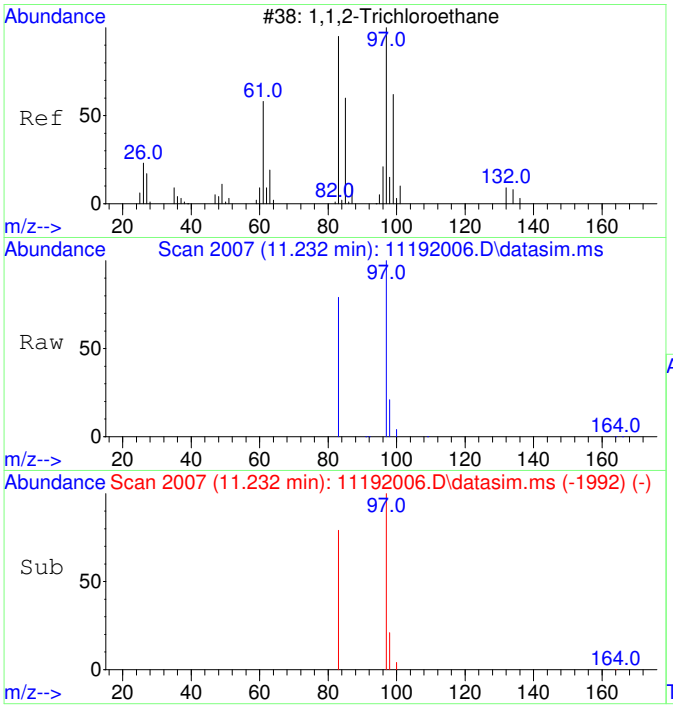


#13
Toluene
Concen: 3859.26 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 91 Resp: 470826

Ion	Ratio	Lower	Upper
91	100		
92	59.5	29.9	89.9

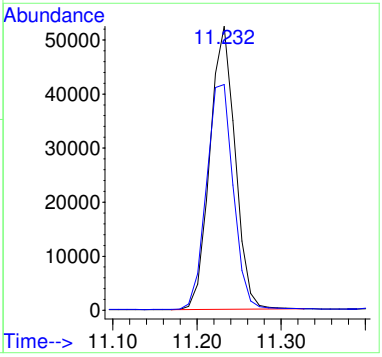


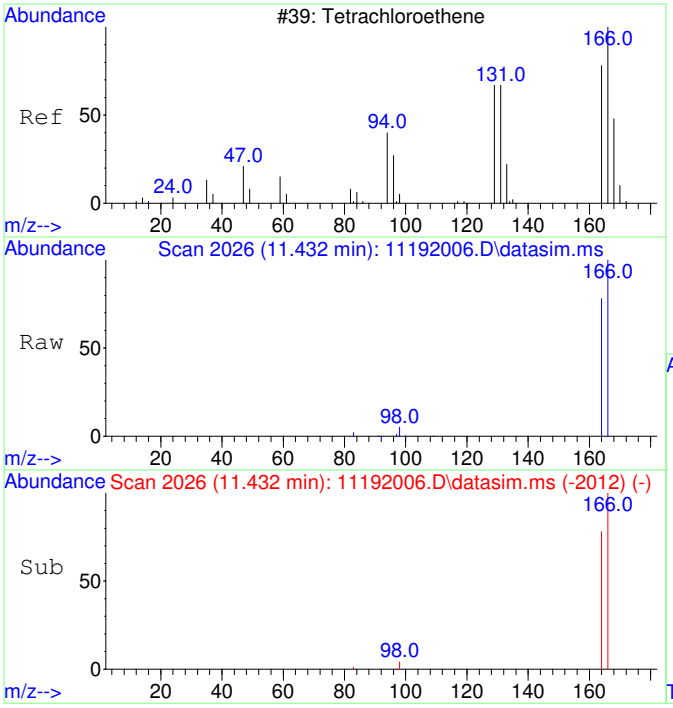


#14
1,1,2-Trichloroethane
Concen: 4098.58 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 97 Resp: 108955

Ion	Ratio	Lower	Upper
97	100		
83	84.2	51.2	111.2

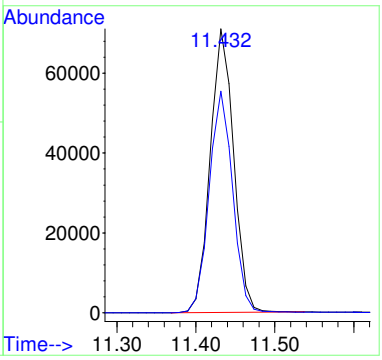


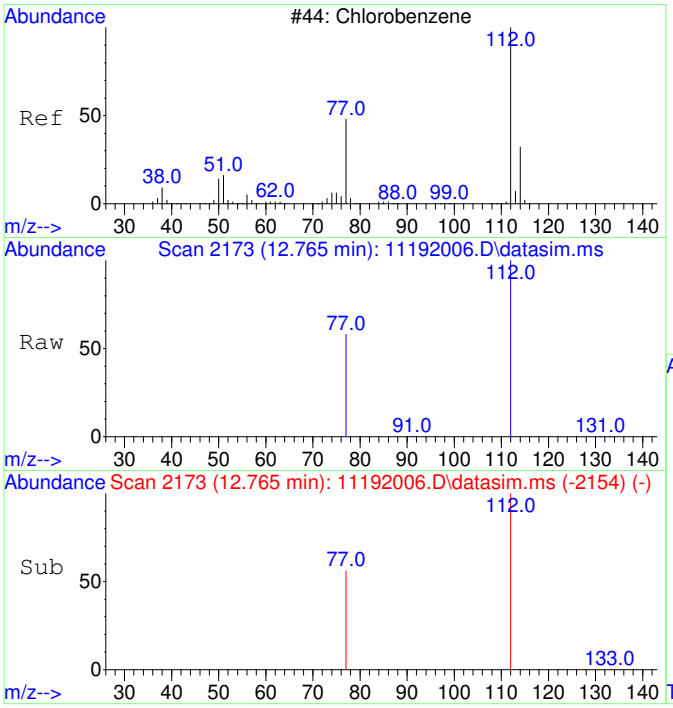


#15
Tetrachloroethene
Concen: 4140.03 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:166 Resp: 146169

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

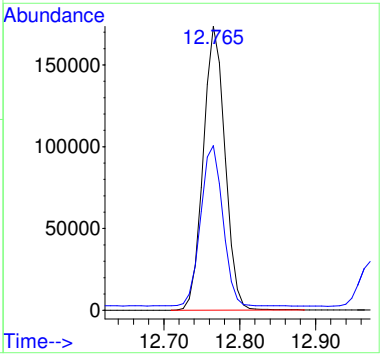


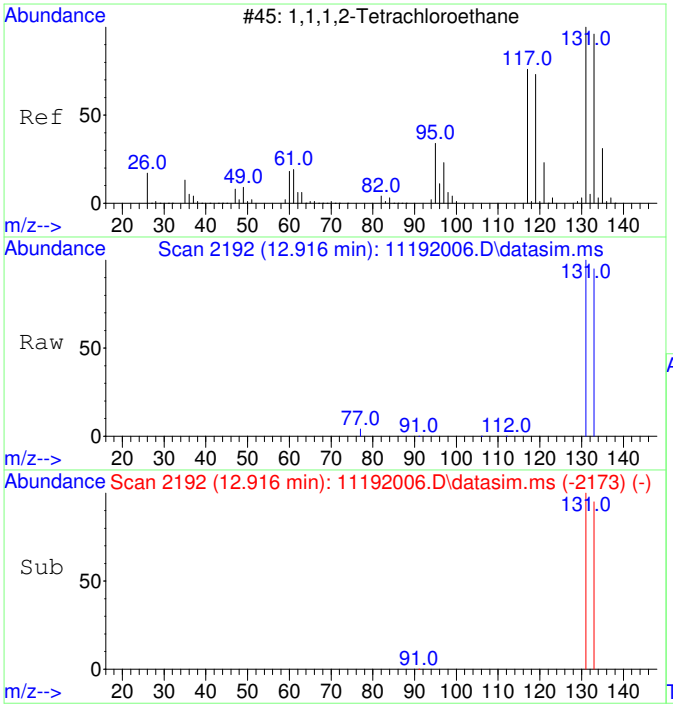


#16
Chlorobenzene
Concen: 3953.49 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:112 Resp: 345360

Ion	Ratio	Lower	Upper
112	100		
77	57.5	23.6	83.6

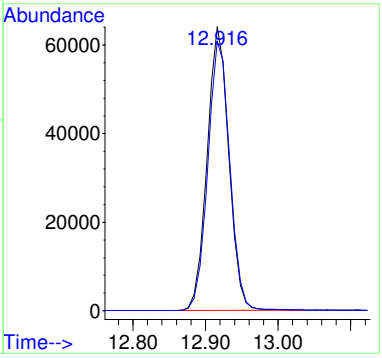


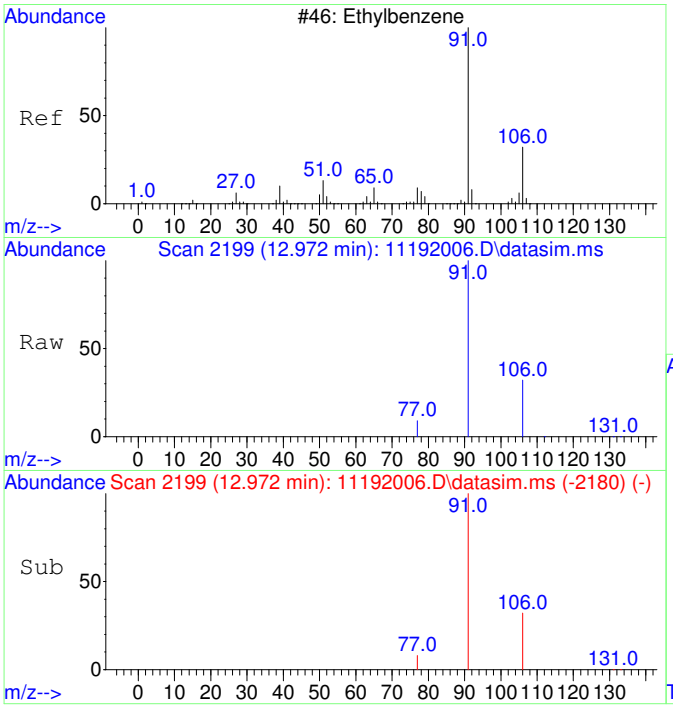


#17
1,1,1,2-Tetrachloroethane
Concen: 4253.23 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:131 Resp: 133132

Ion	Ratio	Lower	Upper
131	100		
133	95.9	66.3	126.3

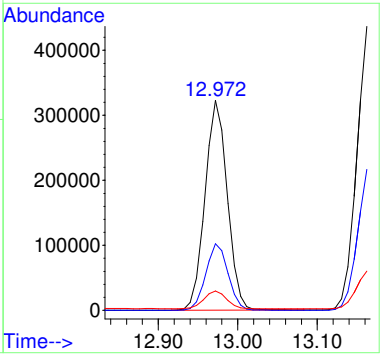


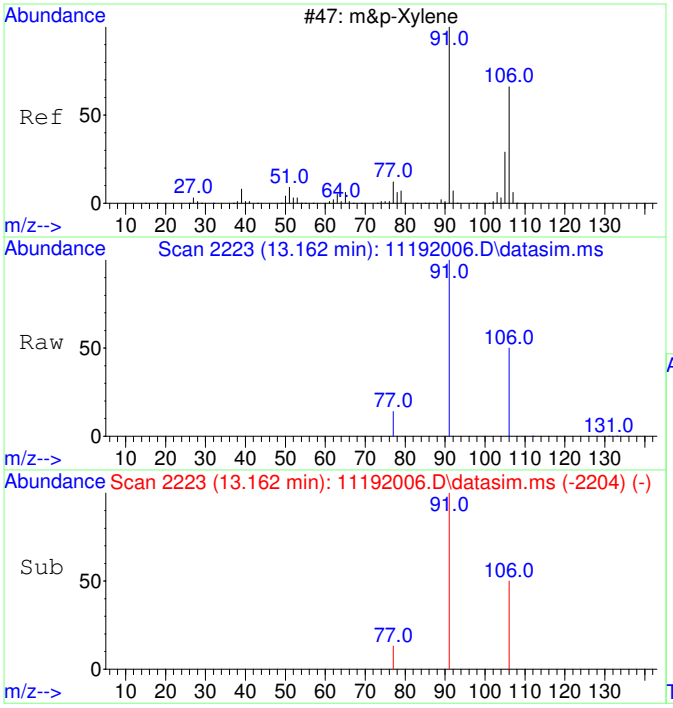


#18
Ethylbenzene
Concen: 4222.61 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 91 Resp: 627051

Ion	Ratio	Lower	Upper
91	100		
106	31.7	3.0	63.0
77	8.5	0.0	38.2

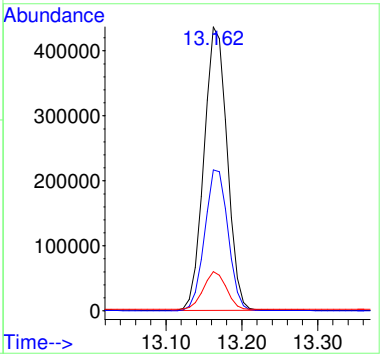


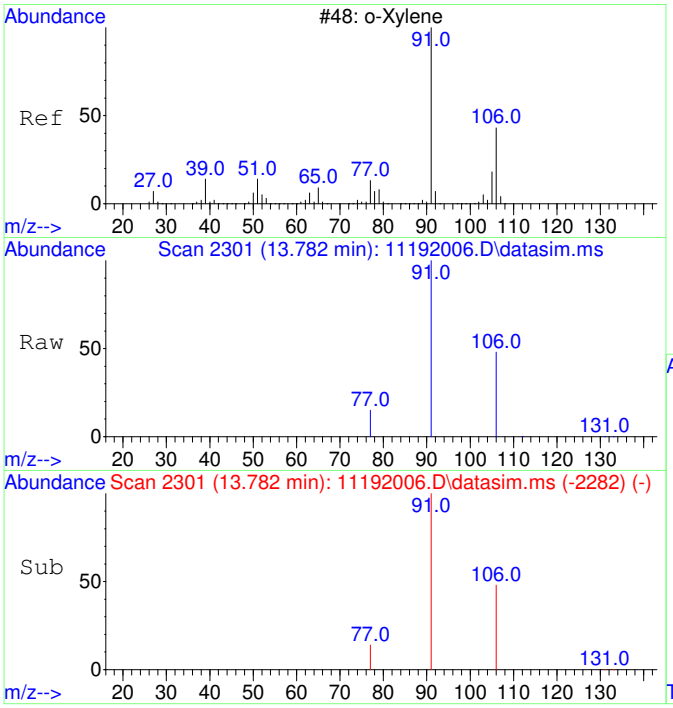


#19
m&p-Xylene
Concen: 7984.42 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 91 Resp: 926678

Ion	Ratio	Lower	Upper
91	100		
106	50.1	22.2	82.2
77	13.0	0.0	42.4

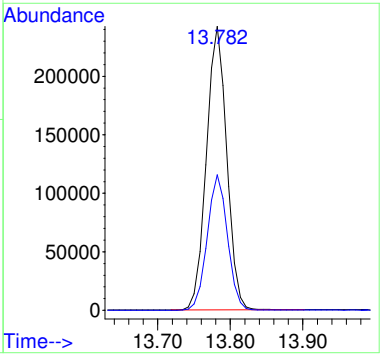


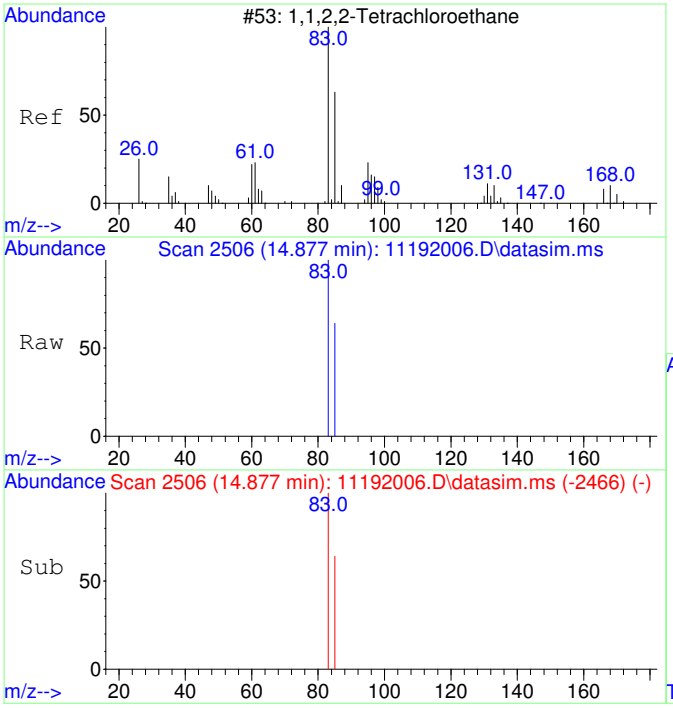


#20
o-Xylene
Concen: 3815.64 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 91 Resp: 473124

Ion	Ratio	Lower	Upper
91	100		
106	47.4	19.2	79.2

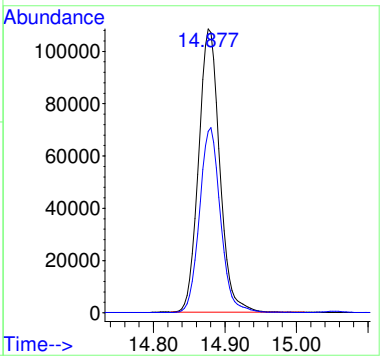


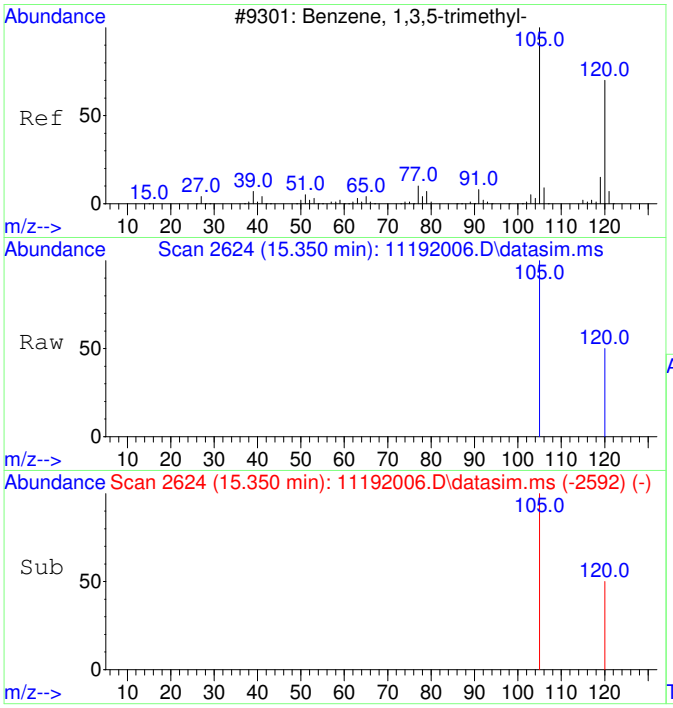


#21
1,1,2,2-Tetrachloroethane
Concen: 4027.42 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 83 Resp: 221323

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.8	94.8

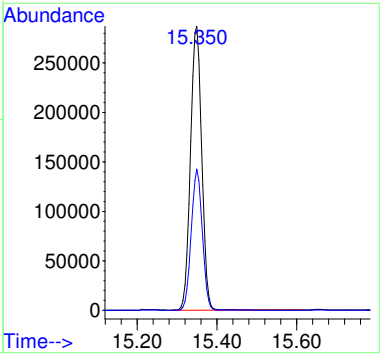


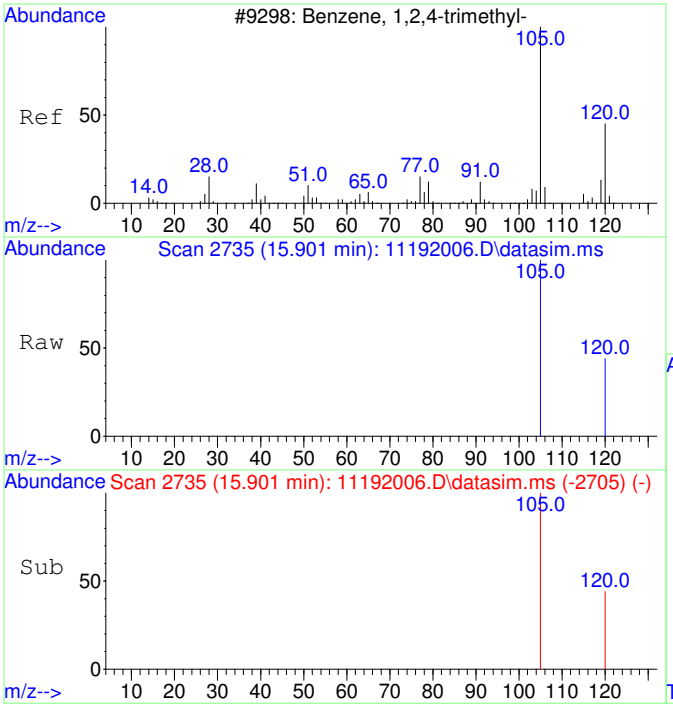


#22
1,3,5-Trimethylbenzene
Concen: 4244.09 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:105 Resp: 560131

Ion	Ratio	Lower	Upper
105	100		
120	48.9	21.1	81.1

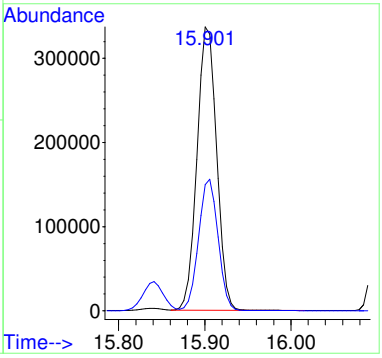


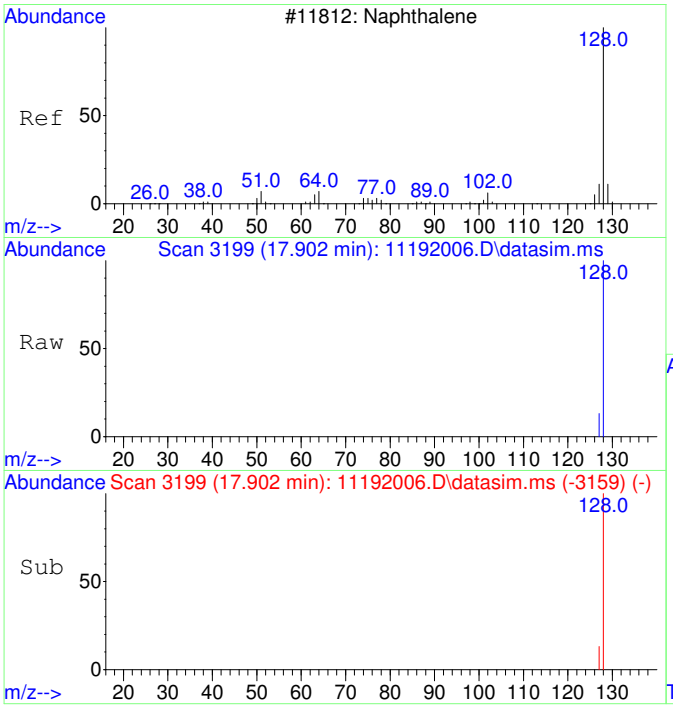


#23
1,2,4-Trimethylbenzene
Concen: 3883.37 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:105 Resp: 532357

Ion	Ratio	Lower	Upper
105	100		
120	45.2	17.2	77.2

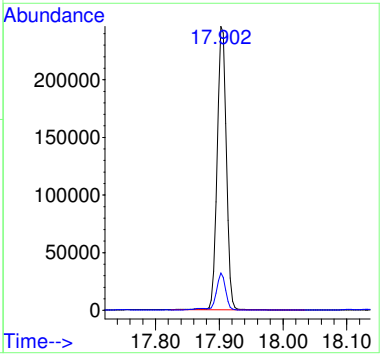


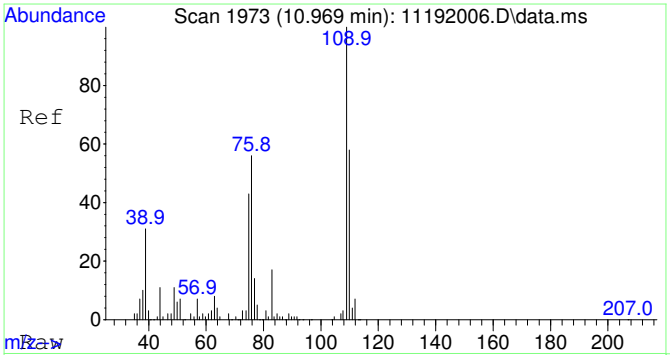


#24
Naphthalene
Concen: 1117.42 ug/L
RT: 17.902 min Scan# 3199
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:128 Resp: 242105

Ion	Ratio	Lower	Upper
128	100		
127	12.0	0.0	42.5

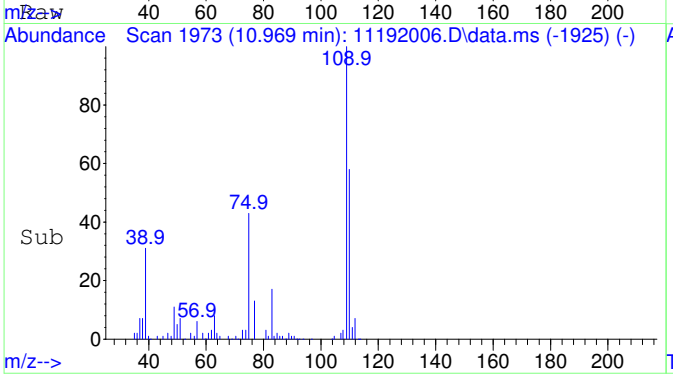


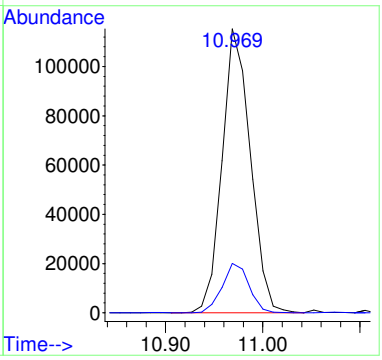


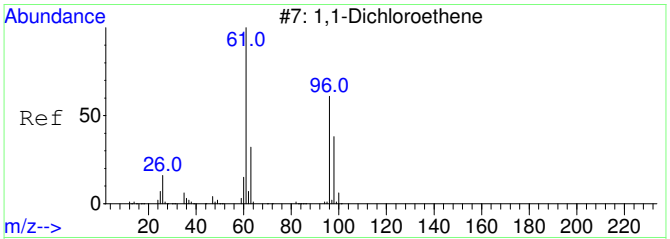
#25
2-Fluorotoluene SCAN
Concen: 4883.40 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

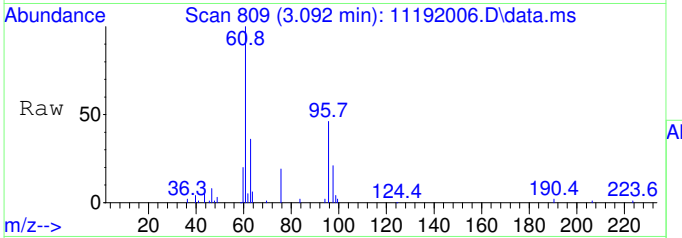
Tgt Ion:109 Resp: 232700

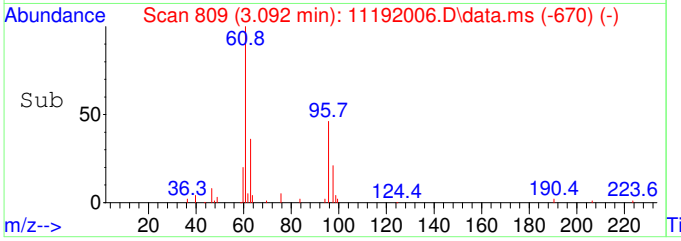
Ion	Ratio	Lower	Upper
109	100		
83	16.5	0.0	43.8







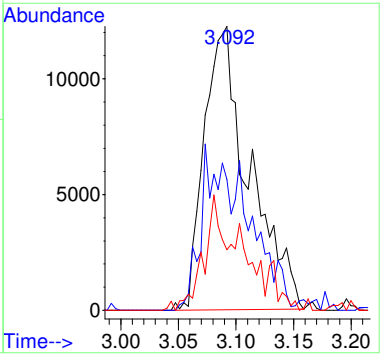


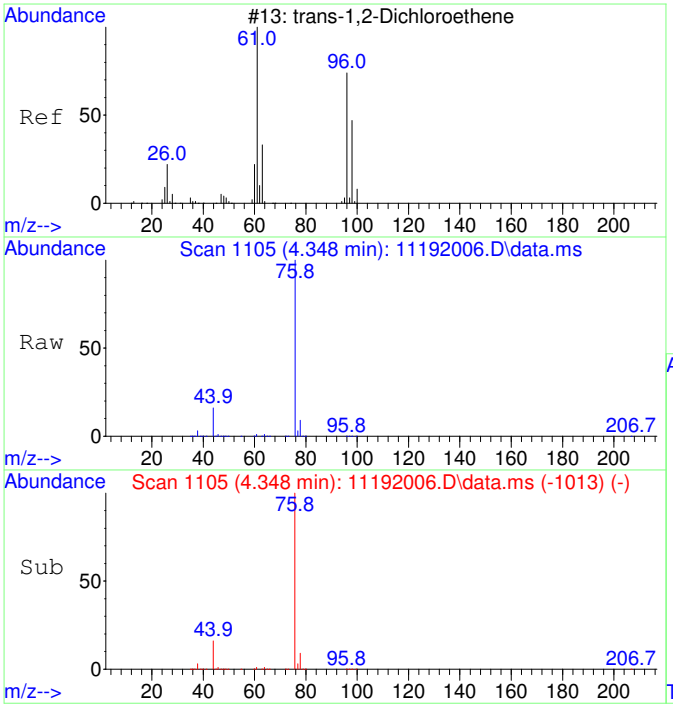


#26
1,1-Dichloroethene SCAN
Concen: 3298.81 ug/L
RT: 3.092 min Scan# 809
Delta R.T. 0.015 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 61 Resp: 33383

Ion	Ratio	Lower	Upper
61	100		
96	57.1	33.1	93.1
98	26.2	11.2	71.2

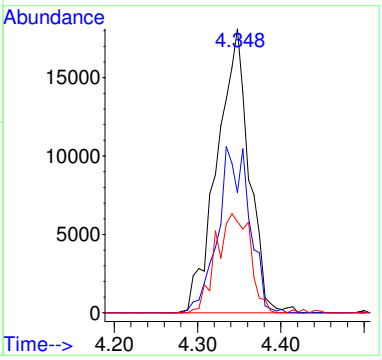


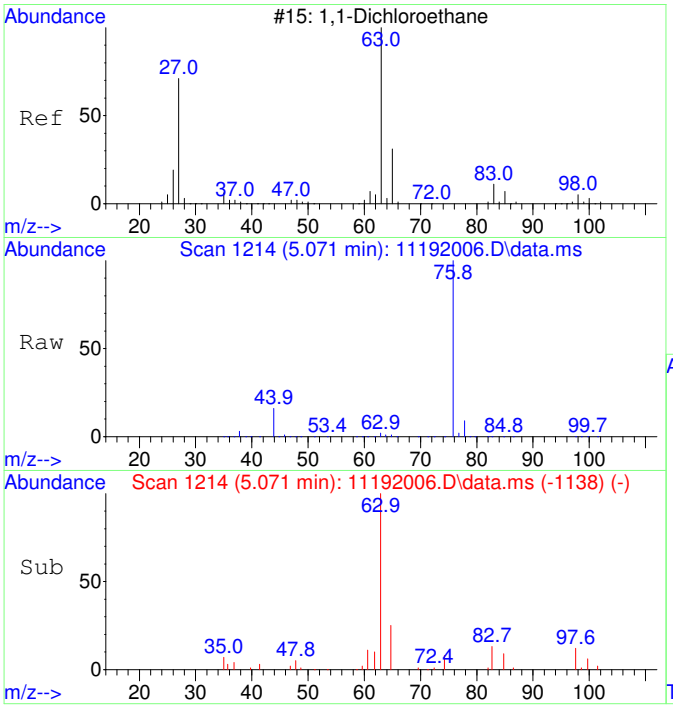


#27
trans-1,2-Dichloroethene SCAN
Concen: 3870.48 ug/L
RT: 4.348 min Scan# 1105
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 61 Resp: 48468

Ion	Ratio	Lower	Upper
61	100		
96	57.4	49.0	109.0
98	37.4	20.5	80.5

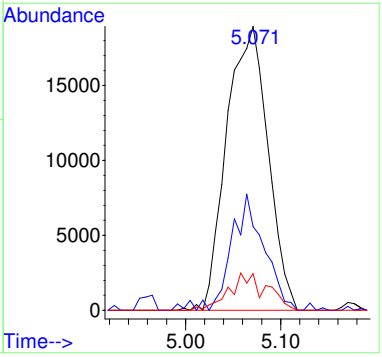


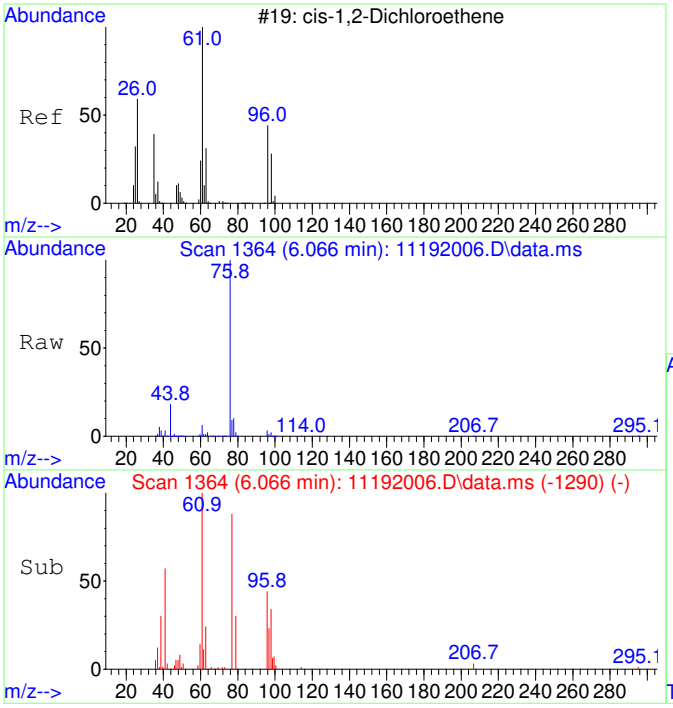


#28
1,1-Dichloroethane SCAN
Concen: 3953.33 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.006 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 63 Resp: 57293

Ion	Ratio	Lower	Upper
63	100		
65	31.8	1.3	61.3
83	11.9	0.0	45.9

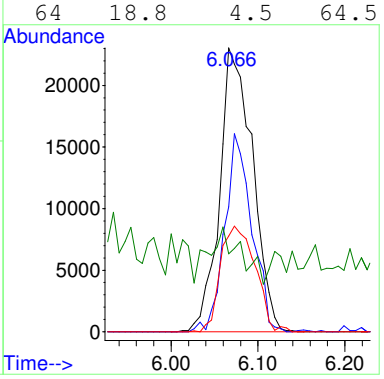


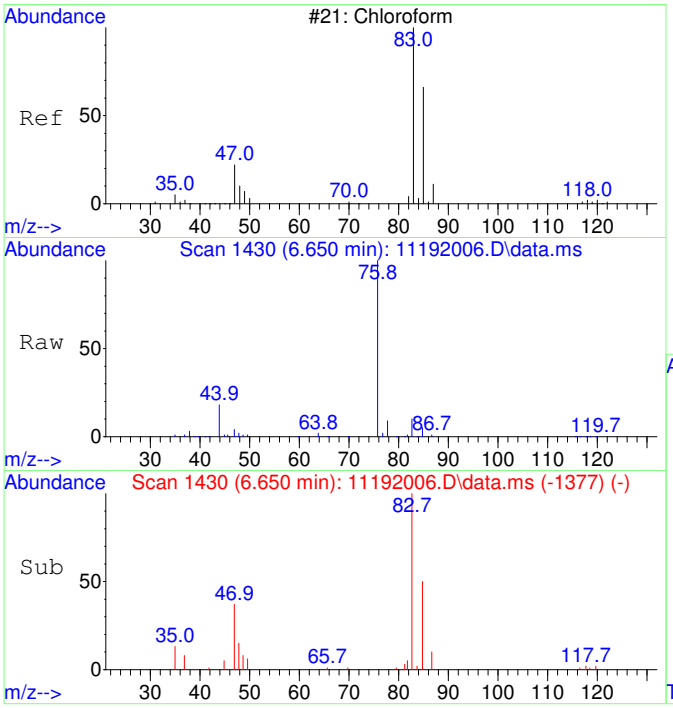


#29
cis-1,2-Dichloroethene SCAN
Concen: 3916.11 ug/L
RT: 6.066 min Scan# 1364
Delta R.T. -0.007 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 61 Resp: 60806

Ion	Ratio	Lower	Upper
61	100		
96	57.2	39.9	99.9
98	39.4	13.5	73.5
64	18.8	4.5	64.5

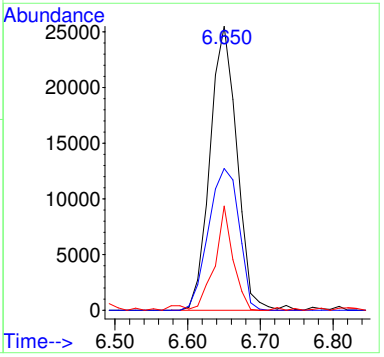


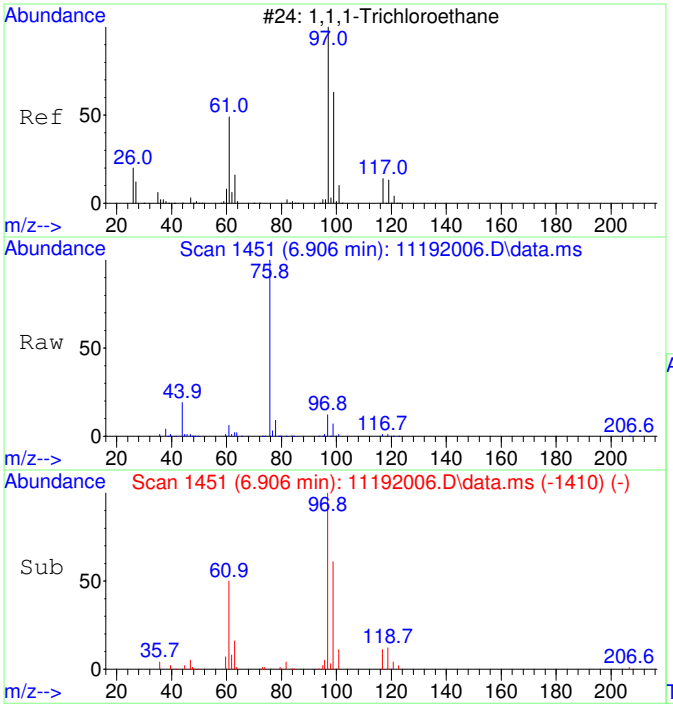


#30
Chloroform SCAN
Concen: 3906.34 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 83 Resp: 65788

Ion	Ratio	Lower	Upper
83	100		
85	56.7	34.6	94.6
47	26.0	0.0	53.4

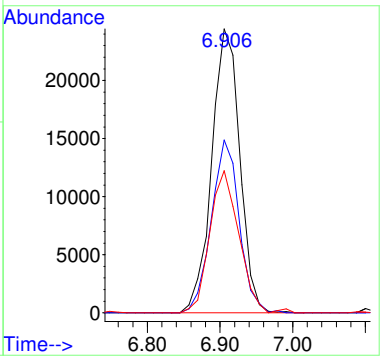


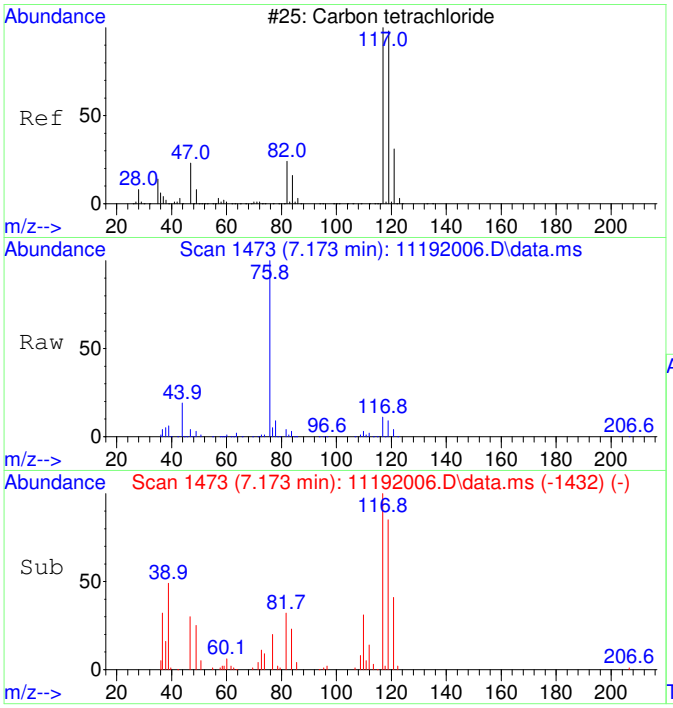


#31
1,1,1-Trichloroethane SCAN
Concen: 4280.97 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 97 Resp: 65701

Ion	Ratio	Lower	Upper
97	100		
99	60.4	43.6	103.6
61	52.2	18.0	78.0

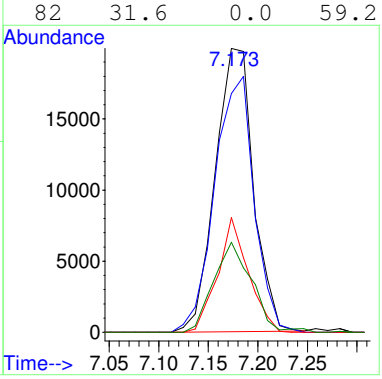


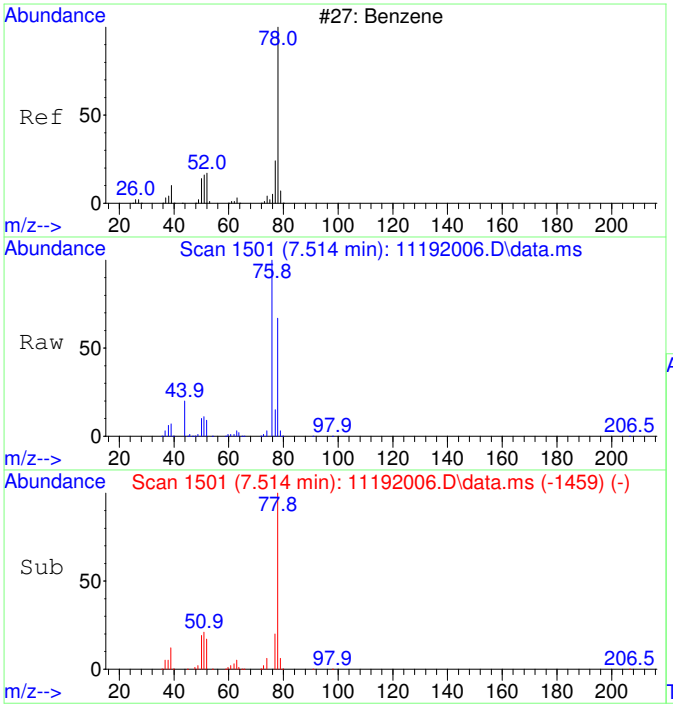


#32
Carbon tetrachloride SCAN
Concen: 3356.77 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:117 Resp: 53738

Ion	Ratio	Lower	Upper
117	100		
119	92.7	75.5	135.5
121	32.5	0.0	58.8
82	31.6	0.0	59.2

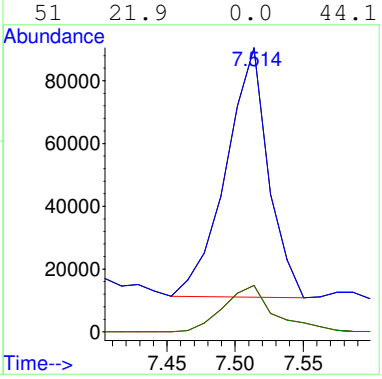


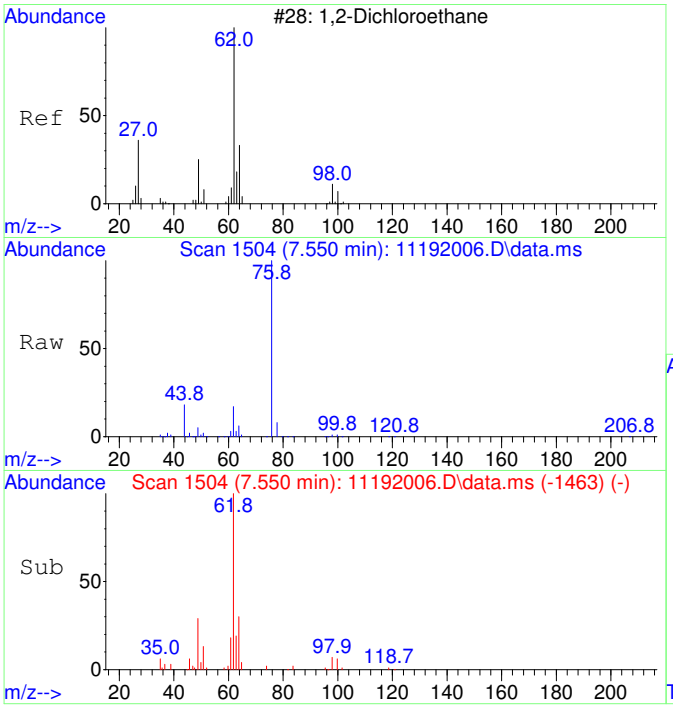


#33
Benzene SCAN
Concen: 4078.61 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 78 Resp: 172348

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	21.9	0.0	47.9
51	21.9	0.0	44.1

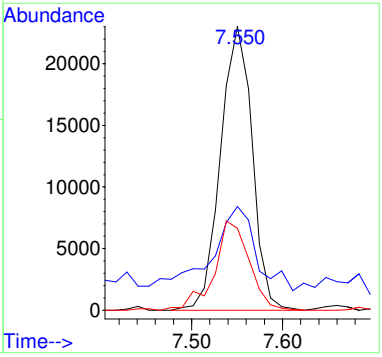


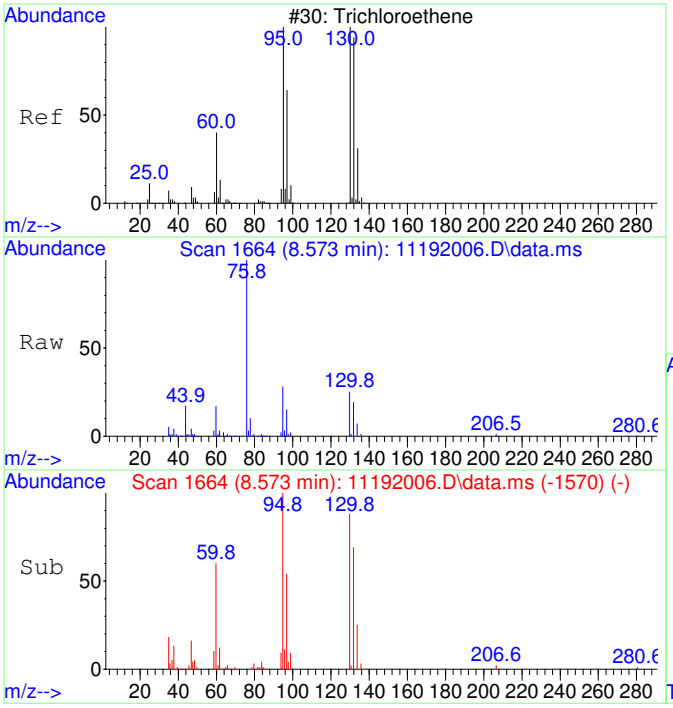


#34
1,2-Dichloroethane SCAN
Concen: 3582.56 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 62 Resp: 55900

Ion	Ratio	Lower	Upper
62	100		
64	38.8	5.2	65.2
49	35.2	3.9	63.9

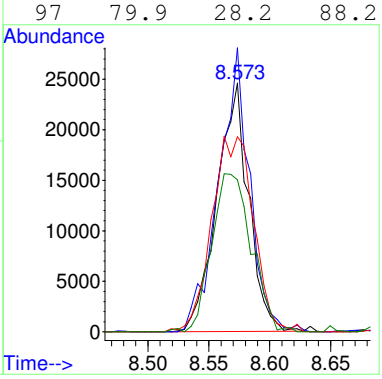


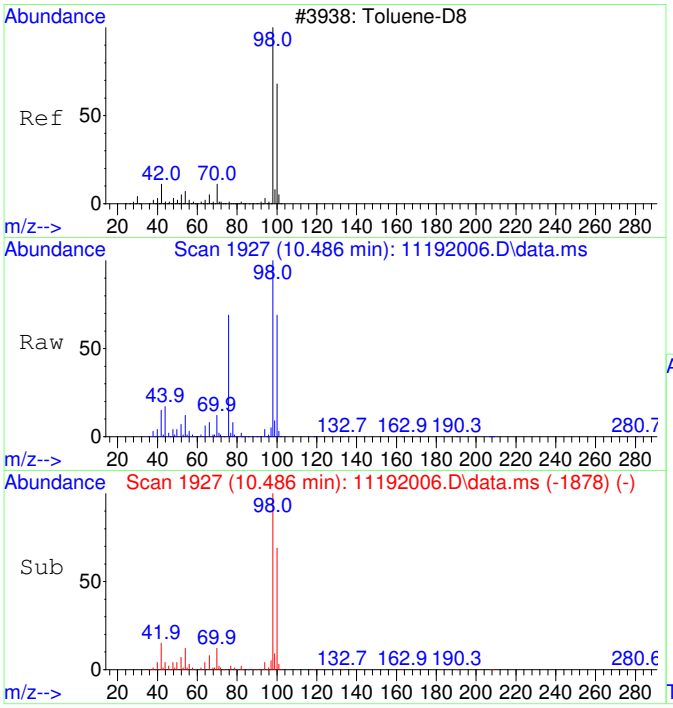


#35
Trichloroethene SCAN
Concen: 3850.11 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:130 Resp: 44709

Ion	Ratio	Lower	Upper
130	100		
95	111.4	60.5	120.5
132	103.5	59.6	119.6
97	79.9	28.2	88.2

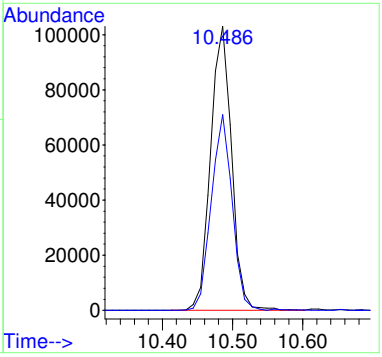


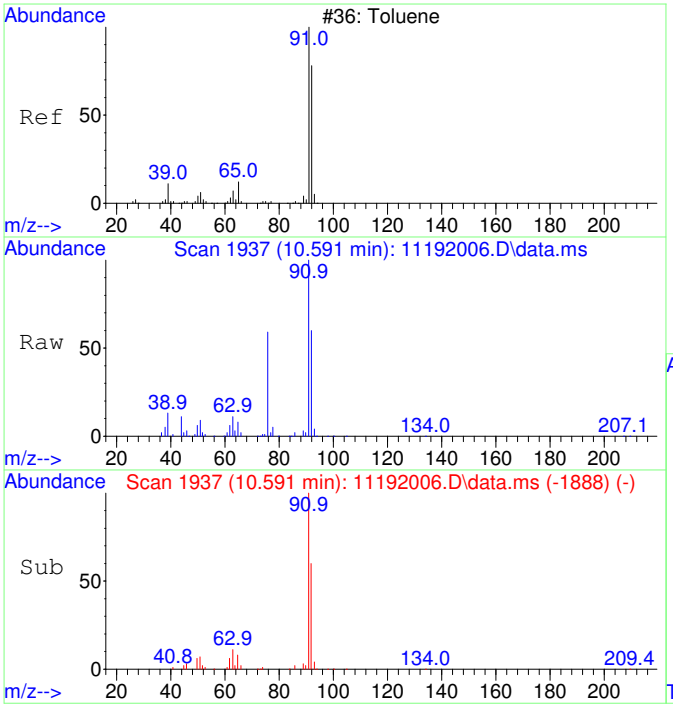


#36
Toluene-d8 SCAN
Concen: 4594.79 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 98 Resp: 214124

Ion	Ratio	Lower	Upper
98	100		
100	68.3	40.0	100.0

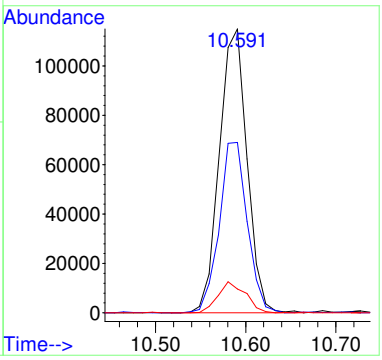


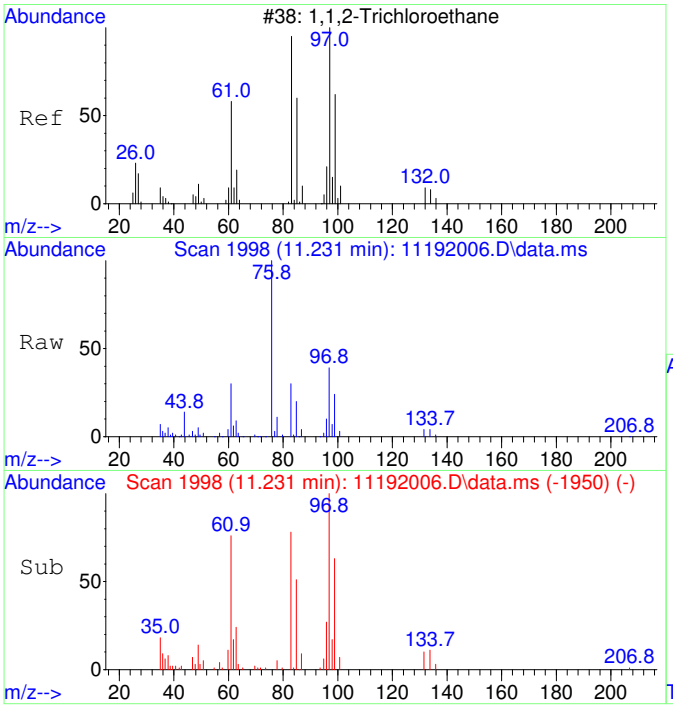


#37
Toluene SCAN
Concen: 4112.06 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 91 Resp: 245408

Ion	Ratio	Lower	Upper
91	100		
92	60.6	28.3	88.3
65	10.8	0.0	41.0

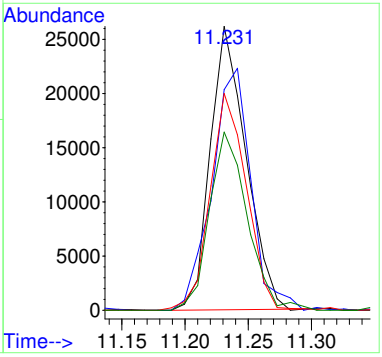


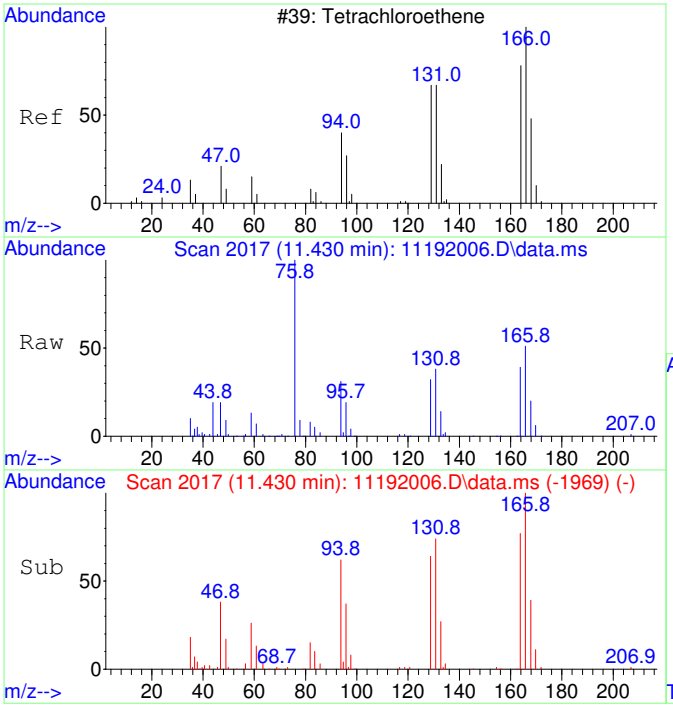


#38
1,1,2-Trichloroethane SCAN
Concen: 3858.04 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 97 Resp: 51681

Ion	Ratio	Lower	Upper
97	100		
83	93.7	57.7	117.7
61	78.2	32.1	92.1
99	66.6	36.7	96.7

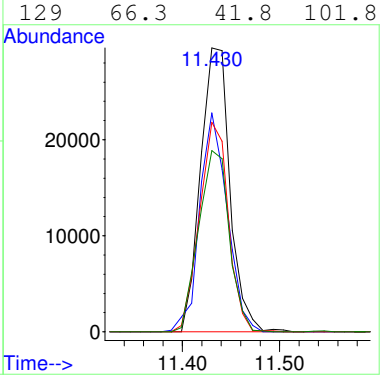


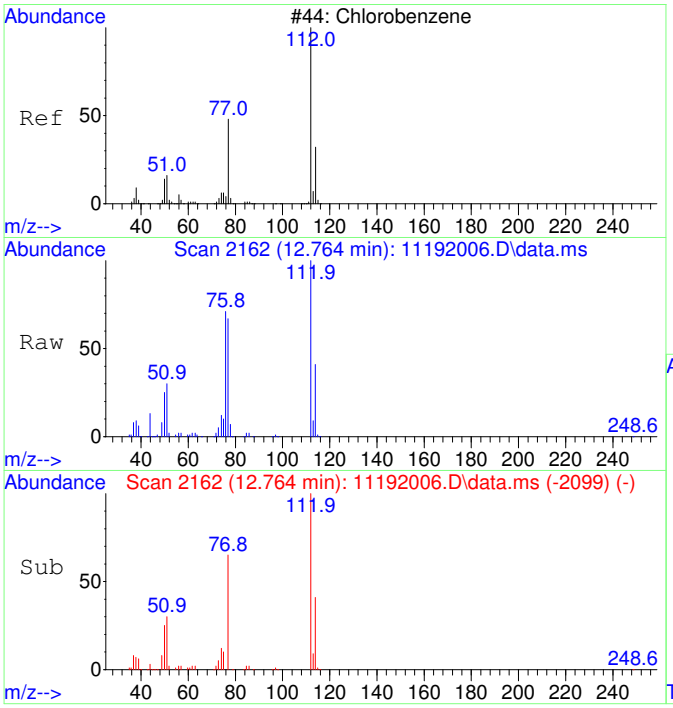


#39
Tetrachloroethene SCAN
Concen: 4348.74 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:166 Resp: 62352

Ion	Ratio	Lower	Upper
166	100		
164	72.2	50.9	110.9
131	72.2	38.7	98.7
129	66.3	41.8	101.8

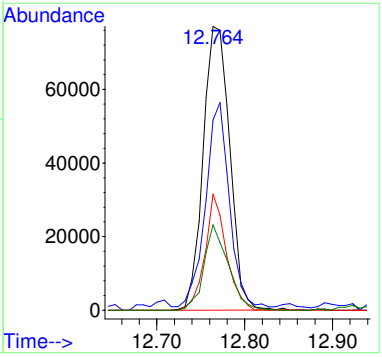


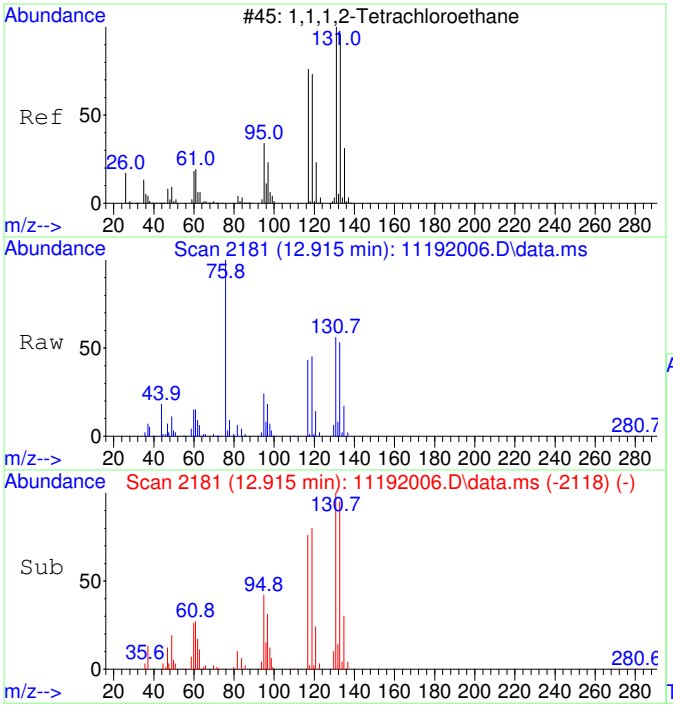


#40
Chlorobenzene SCAN
Concen: 3993.99 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:112 Resp: 162878

Ion	Ratio	Lower	Upper
112	100		
77	63.6	28.2	88.2
114	33.0	2.3	62.3
51	27.4	0.0	50.1

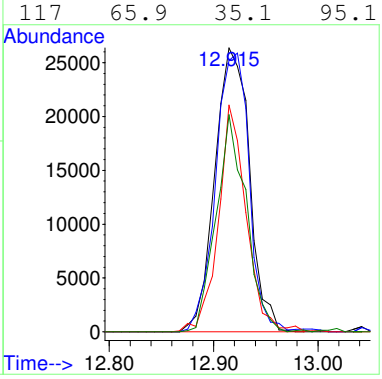


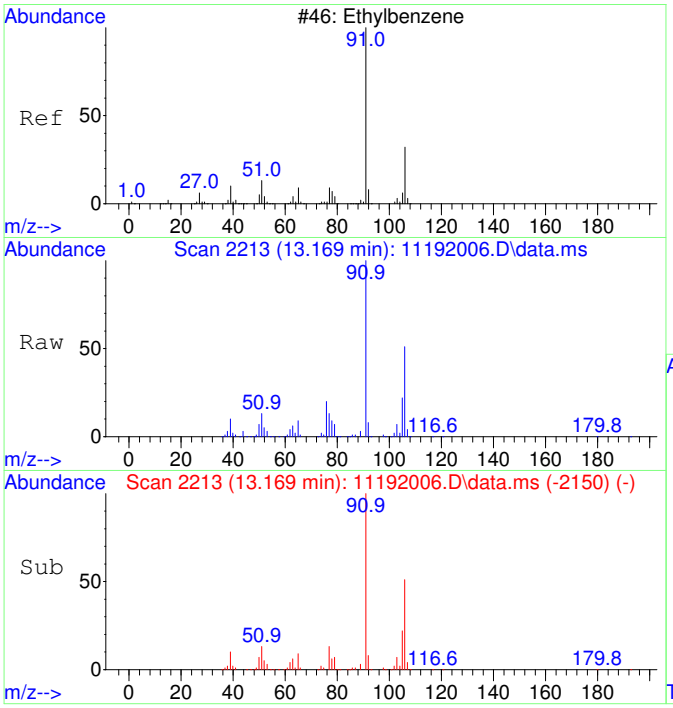


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 4022.18 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:131 Resp: 60703

Ion	Ratio	Lower	Upper
131	100		
133	95.6	66.9	126.9
119	64.5	40.4	100.4
117	65.9	35.1	95.1

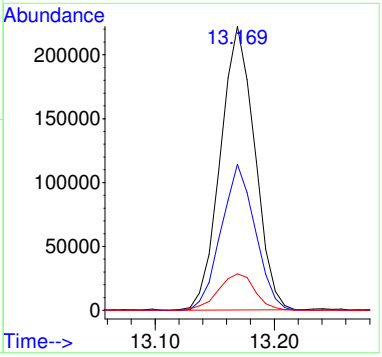


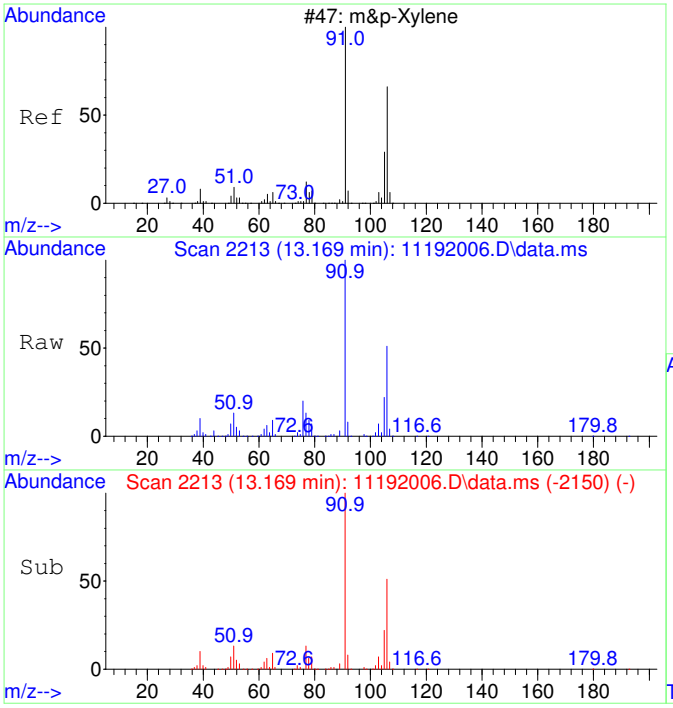


#42
Ethylbenzene SCAN
Concen: 4092.53 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 91 Resp: 444967

Ion	Ratio	Lower	Upper
91	100		
106	51.0	23.1	83.1
51	13.9	0.0	40.1

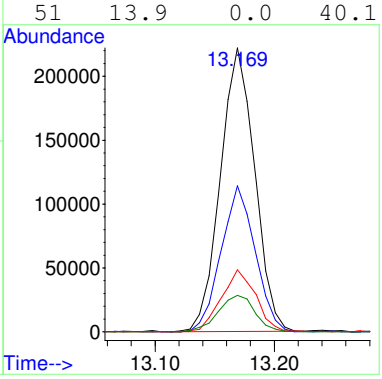


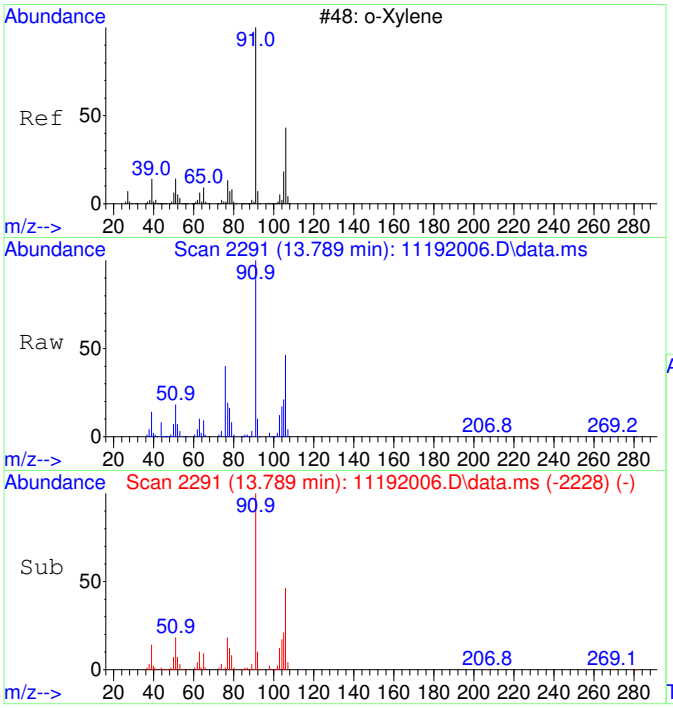


#43
m&p-Xylene SCAN
Concen: 4092.53 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 91 Resp: 444967

Ion	Ratio	Lower	Upper
91	100		
106	51.0	23.1	83.1
105	22.1	0.0	54.7
51	13.9	0.0	40.1

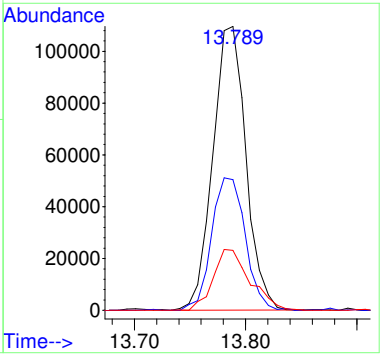


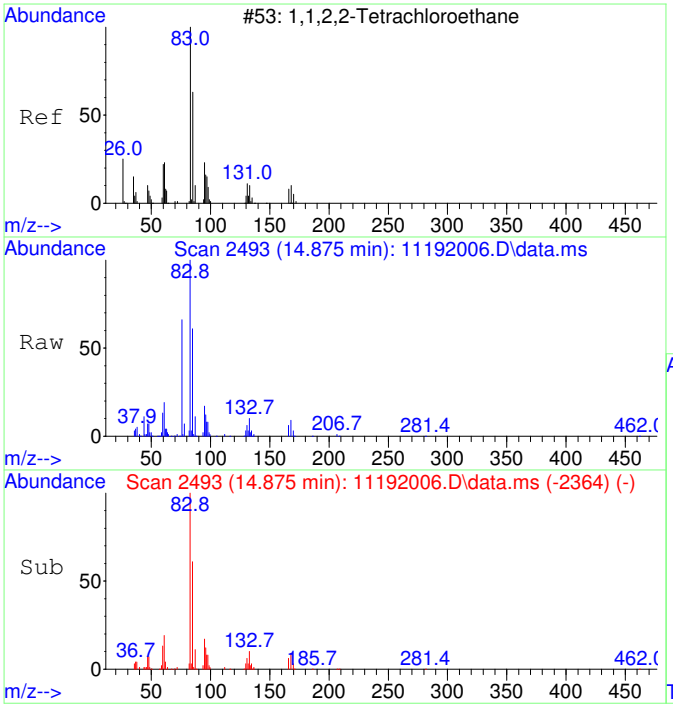


#44
o-Xylene SCAN
Concen: 3893.61 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 91 Resp: 226603

Ion	Ratio	Lower	Upper
91	100		
106	47.6	18.0	78.0
105	23.9	0.0	56.6

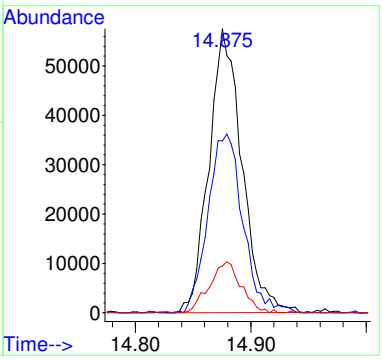


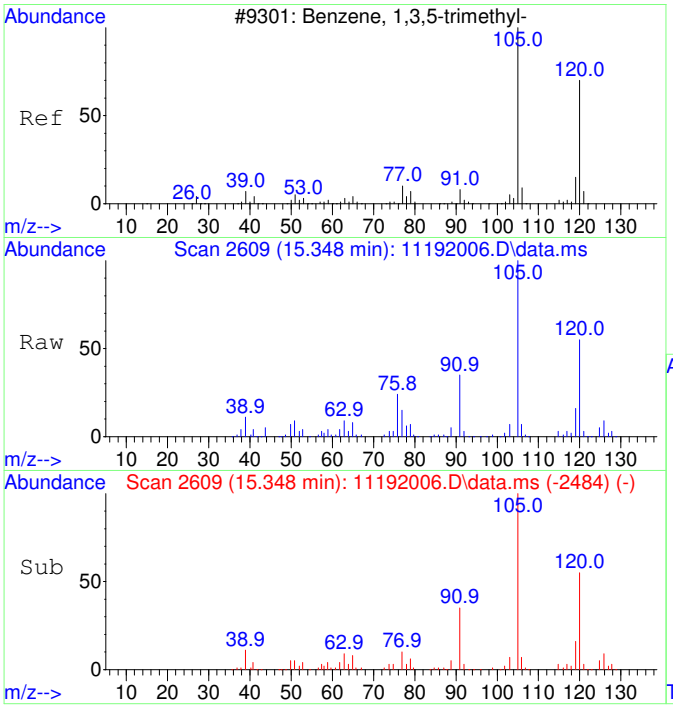


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 4023.71 ug/L
RT: 14.875 min Scan# 2493
Delta R.T. 0.004 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion: 83 Resp: 114187

Ion	Ratio	Lower	Upper
83	100		
85	66.7	35.9	95.9
95	17.4	0.0	47.4

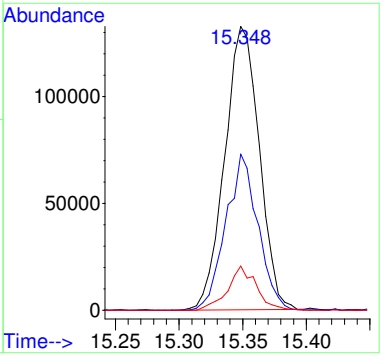


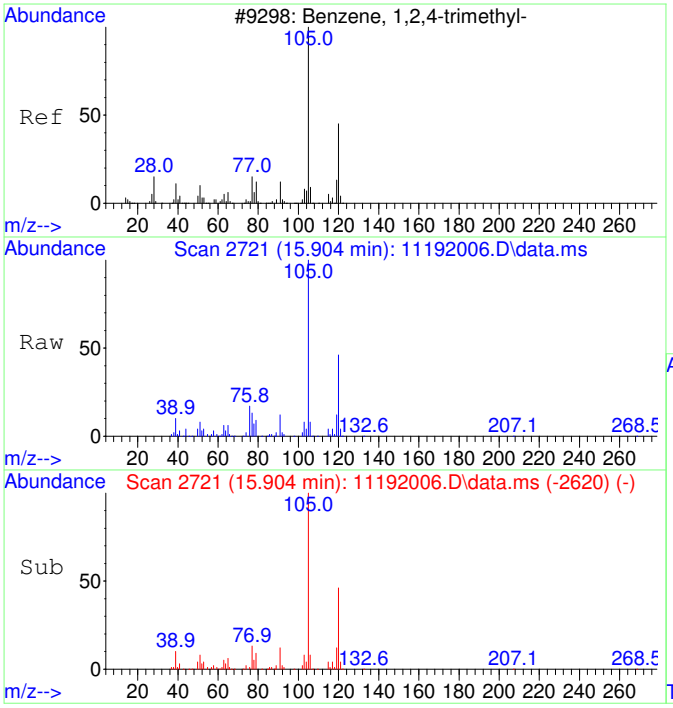


#46
1,3,5-Trimethylbenzene SCAN
Concen: 4115.08 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:105 Resp: 252401

Ion	Ratio	Lower	Upper
105	100		
120	51.1	18.3	78.3
119	12.9	0.0	43.1

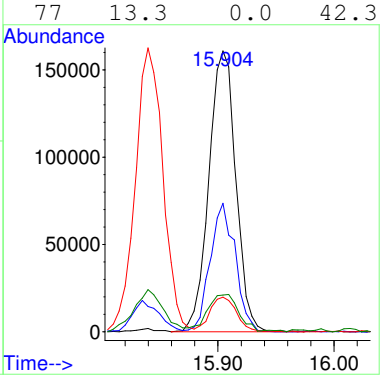


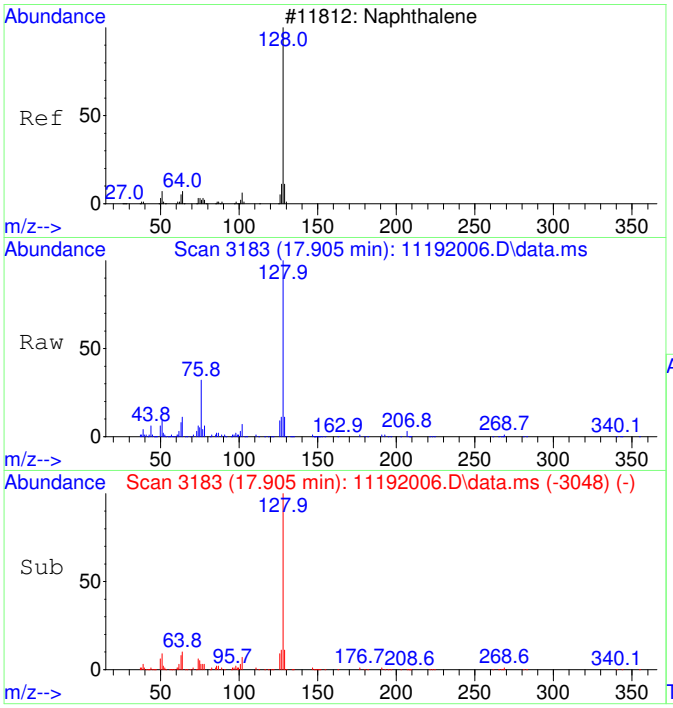


#47
1,2,4-Trimethylbenzene SCAN
Concen: 4148.21 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:105 Resp: 260341

Ion	Ratio	Lower	Upper
105	100		
120	41.9	16.9	76.9
119	10.9	0.0	41.9
77	13.3	0.0	42.3

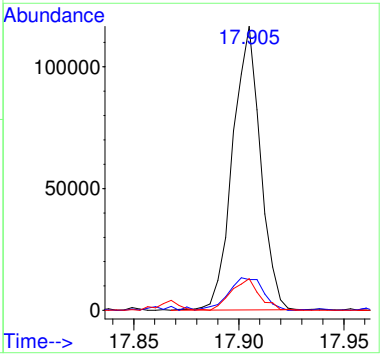




#48
Naphthalene SCAN
Concen: 1121.35 ug/L
RT: 17.905 min Scan# 3183
Delta R.T. -0.000 min
Lab File: 11192006.D
Acq: 19 Nov 2020 10:20

Tgt Ion:128 Resp: 106490

Ion	Ratio	Lower	Upper
128	100		
127	14.4	0.0	44.0
129	11.2	0.0	40.8



B20K078-BSD1

Blanks Spike or Blank Spike Duplicate

Instrument Name: AG5975C
Sample Name: B20K078-BSD1
Misc Info: 0
Date Acquired: 11/19/2020
QLast Update: Mon Nov 16 10:20:51 2020
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.970	5000	5000.00	100%	70	130	pass
2)	**1,1-Dichloroethene**	**3.086**	**5000**	**3998.23**	**80%**	**22**	**143**	**pass**
3)	**trans-1,2-Dichloroethene**	**4.343**	**5000**	**4127.79**	**83%**	**35**	**133**	**pass**
4)	**1,1-Dichloroethane**	**5.066**	**5000**	**4304.03**	**86%**	**43**	**140**	**pass**
5)	**cis-1,2-Dichloroethene**	**6.074**	**5000**	**4280.10**	**86%**	**49**	**134**	**pass**
6)	**Chloroform**	**6.639**	**5000**	**4416.69**	**88%**	**56**	**132**	**pass**
7)	**1,1,1-Trichloroethane**	**6.907**	**5000**	**4341.12**	**87%**	**58**	**131**	pass
8)	Carbon tetrachloride	7.175	5000	4264.11	85%	60	126	pass
9)	Benzene	7.503	5000	4229.97	85%	63	121	pass
10)	1,2-Dichloroethane	7.540	5000	4243.73	85%	57	128	pass
11)	**Trichloroethene**	**8.564**	**5000**	**4444.96**	**89%**	**69**	**124**	**pass**
12)	Toluene-d8	10.477	5000	4443.55	89%	70	130	pass
13)	Toluene	10.571	5000	4047.81	81%	77	111	pass
14)	1,1,2-Trichloroethane	11.222	5000	4338.84	87%	76	115	pass
15)	**Tetrachloroethene**	**11.432**	**5000**	**4268.62**	**85%**	**69**	**124**	**pass**
16)	Chlorobenzene	12.765	5000	4032.93	81%	64	122	pass
17)	1,1,1,2-Tetrachloroethane	12.916	5000	4335.73	87%	68	130	**pass**
18)	Ethylbenzene	12.972	5000	4281.94	86%	70	130	pass
19)	m&p-Xylene	13.163	10000	8090.93	81%	66	129	pass
20)	o-Xylene	13.782	5000	3847.88	77%	63	121	pass
21)	1,1,2,2-Tetrachloroethane	14.877	5000	4031.02	81%	55	132	pass
22)	1,3,5-Trimethylbenzene	15.345	5000	4209.41	84%	61	140	pass
23)	1,2,4-Trimethylbenzene	15.901	5000	3836.27	77%	54	143	pass
25)	2-Fluorotoluene SCAN	10.969	5000	4778.90	96%	20	110	pass
27)	trans-1,2-Dichloroethene SCAN	4.348	5000	4253.70	85%	83	110	pass
29)	cis-1,2-Dichloroethene SCAN	6.073	5000	4392.78	88%	58	118	pass
31)	1,1,1-Trichloroethane SCAN	6.906	5000	4442.40	89%	59	119	pass
33)	Benzene SCAN	7.502	5000	4503.42	90%	69	129	pass
35)	Trichloroethene SCAN	8.563	5000	4489.84	90%	69	129	pass
37)	Toluene SCAN	10.580	5000	4514.92	90%	66	126	pass
39)	Tetrachloroethene SCAN	11.431	5000	4668.03	93%	59	119	pass
41)	1,1,1,2-Tetrachloroethane SCAN	12.915	5000	4000.12	80%	62	122	pass
43)	m&p-Xylene SCAN	13.169	5000	4226.29	85%	68	128	pass
45)	1,1,2,2-Tetrachloroethane SCAN	14.872	5000	3939.76	79%	63	123	pass
47)	1,2,4-Trimethylbenzene SCAN	15.904	5000	3899.86	78%	20	110	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192007.D
Acq On : 19 Nov 2020 10:44
InstName : AG5975C
Operator : TD
Sample : B20K078-BSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 23 08:13:52 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

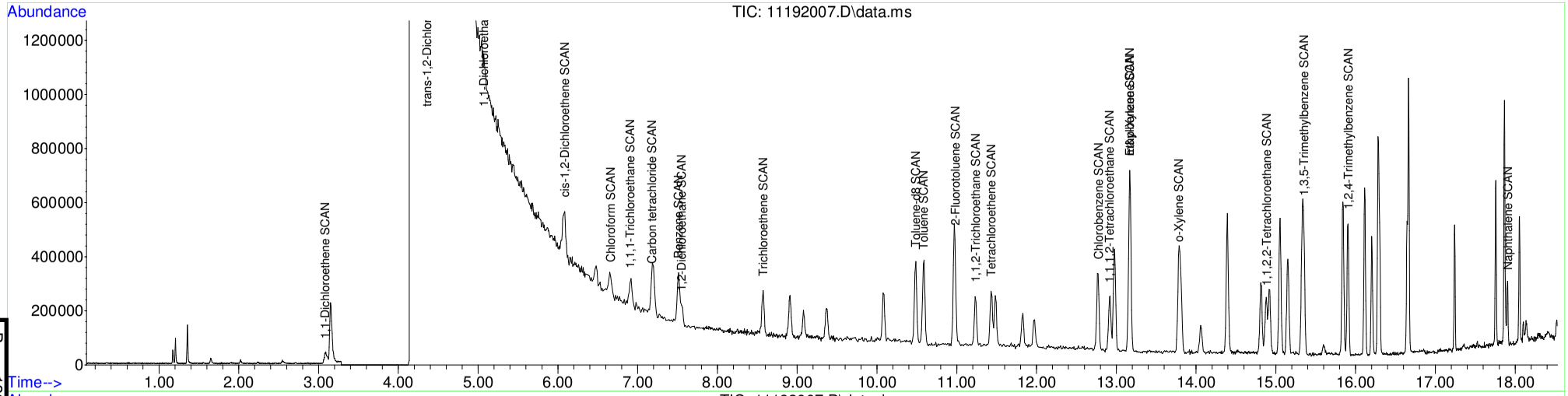
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	507454	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	441420	4443.55	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.87%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	81018	3998.23	ug/L	86
3] trans-1,2-Dichloroethene	4.362	61	96639	4127.79	ug/L	99
4] 1,1-Dichloroethane	5.079	63	125433	4304.03	ug/L	99
5] cis-1,2-Dichloroethene	6.081	61	131667	4280.10	ug/L	99
6] Chloroform	6.651	83	139067	4416.69	ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	148444	4341.12	ug/L	99
8] Carbon tetrachloride	7.187	117	137238	4264.11	ug/L	100
9] Benzene	7.503	78	364705	4229.97	ug/L	99
10] 1,2-Dichloroethane	7.539	62	130615	4243.73	ug/L	99
11] Trichloroethene	8.569	130	115389	4444.96	ug/L	94
13] Toluene	10.582	91	512651	4047.81	ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	119738	4338.84	ug/L	96
15] Tetrachloroethene	11.432	166	156453	4268.62	ug/L	100
16] Chlorobenzene	12.765	112	365727	4032.93	ug/L	95
17] 1,1,1,2-Tetrachloroethane	12.916	131	140887	4335.73	ug/L	100
18] Ethylbenzene	12.972	91	660096	4281.94	ug/L	98
19] m&p-Xylene	13.162	91	974831	8090.93	ug/L	97
20] o-Xylene	13.782	91	495307	3847.88	ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.877	83	229964	4031.02	ug/L	100
22] 1,3,5-Trimethylbenzene	15.350	105	576729	4209.41	ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	545944	3836.27	ug/L	97
24] Naphthalene	17.904	128	232001	1031.47	ug/L	98
25) 2-Fluorotoluene SCAN	10.979	109	236400	4778.90	ug/L	94
26) 1,1-Dichloroethene SCAN	3.081	61	44074	4195.36	ug/L	83
27) trans-1,2-Dichloroethe...	4.361	61	55297	4253.70	ug/L	86
28) 1,1-Dichloroethane SCAN	5.071	63	69707	4633.33	ug/L	88
29) cis-1,2-Dichloroethene...	6.086	61	70807	4392.78	ug/L #	81
30) Chloroform SCAN	6.662	83	72338	4137.56	ug/L	90
31) 1,1,1-Trichloroethane ...	6.906	97	70777	4442.40	ug/L	91
32) Carbon tetrachloride SCAN	7.173	117	65990	3970.76	ug/L	90
33) Benzene SCAN	7.514	78	197552	4503.42	ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	75465	4658.88	ug/L	94
35) Trichloroethene SCAN	8.573	130	54125	4489.84	ug/L	86
36) Toluene-d8 SCAN	10.486	98	213996	4423.45	ug/L	99
37) Toluene SCAN	10.580	91	279721	4514.92	ug/L	95
38) 1,1,2-Trichloroethane ...	11.231	97	64764	4657.20	ug/L	95
39) Tetrachloroethene SCAN	11.430	166	69481	4668.03	ug/L	92
40) Chlorobenzene SCAN	12.772	112	172631	4077.73	ug/L	93
41) 1,1,1,2-Tetrachloroeth...	12.915	131	62671	4000.12	ug/L	97
42) Ethylbenzene SCAN	13.169	91	477024	4226.29	ug/L	91
43) m&p-Xylene SCAN	13.169	91	477024	4226.29	ug/L	93
44) o-Xylene SCAN	13.781	91	253058	4188.53	ug/L	92
45) 1,1,2,2-Tetrachloroeth...	14.883	83	116066	3939.76	ug/L	95
46) 1,3,5-Trimethylbenzene...	15.348	105	275208	4322.19	ug/L	99
47) 1,2,4-Trimethylbenzene...	15.904	105	254083	3899.86	ug/L	98
48) Naphthalene SCAN	17.906	128	105396	1069.08	ug/L	99

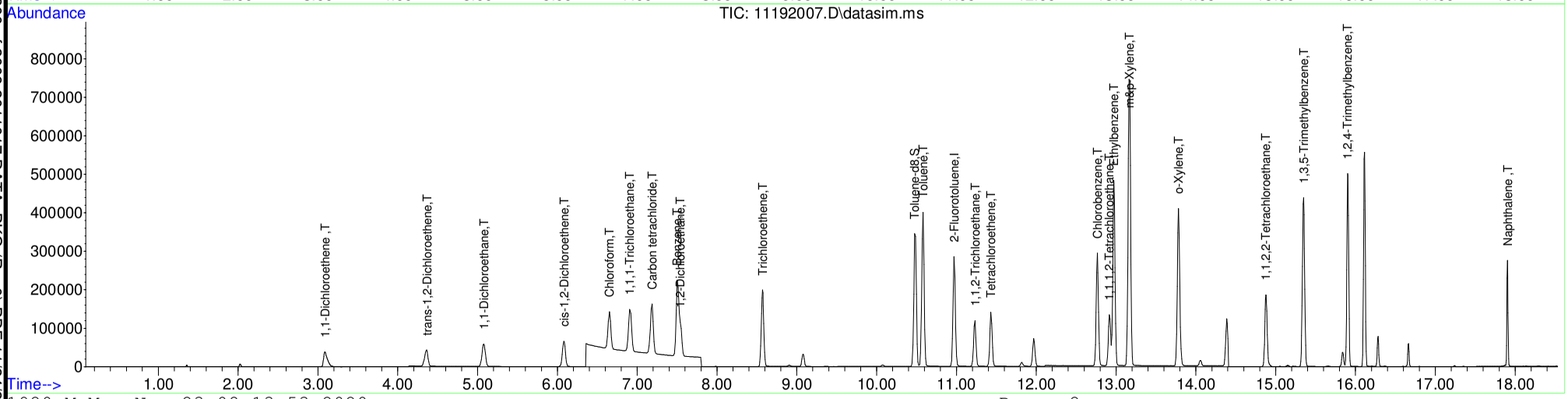
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192007.D
Acq On : 19 Nov 2020 10:44
InstName : AG5975C
Operator : TD
Sample : B20K078-BSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 23 08:13:52 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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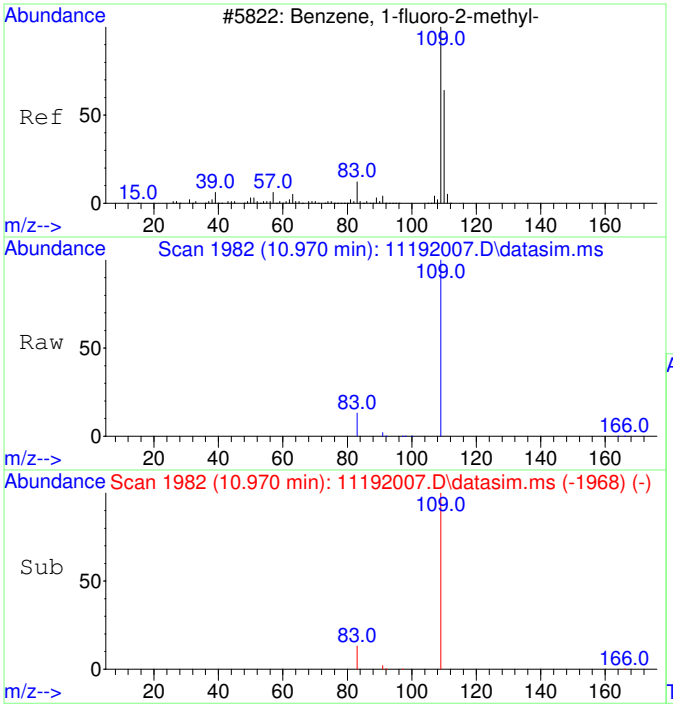
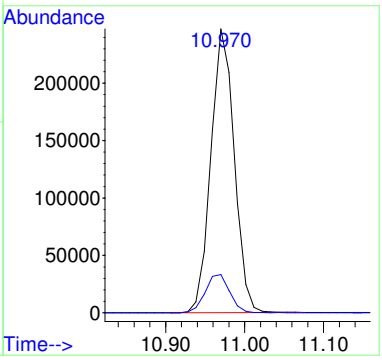
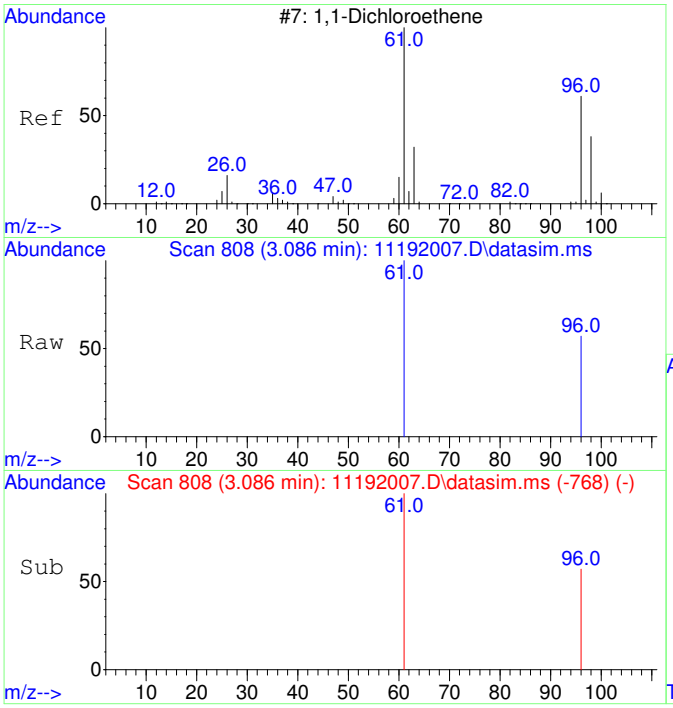


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:109 Resp: 507454

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	42.3

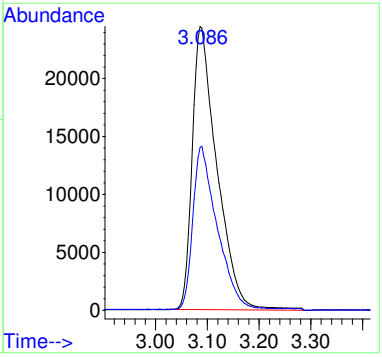


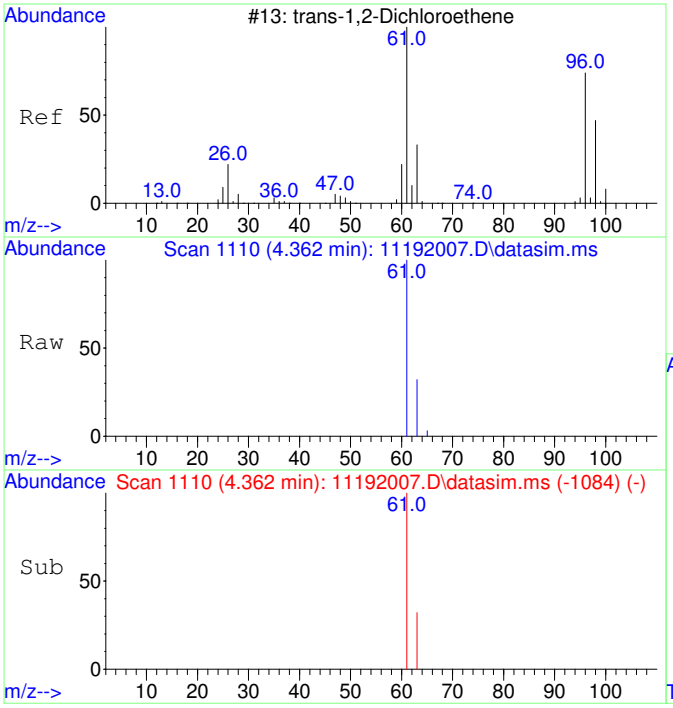


#2
1,1-Dichloroethene
Concen: 3998.23 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 61 Resp: 81018

Ion	Ratio	Lower	Upper
61	100		
96	55.9	37.2	97.2

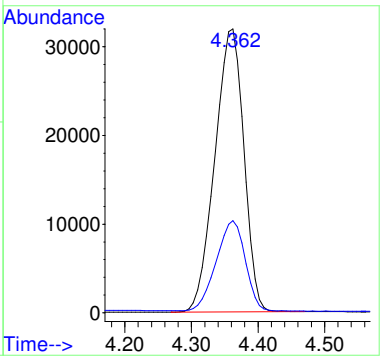


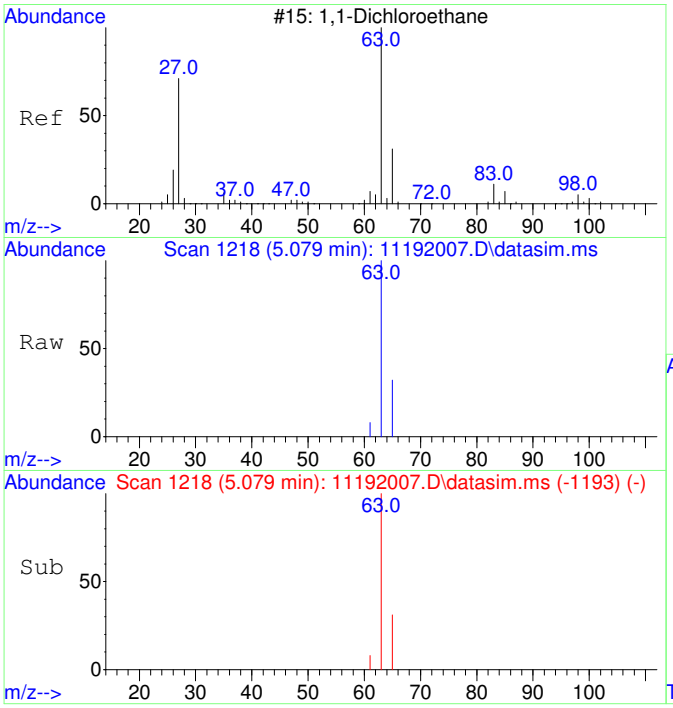


#3
trans-1,2-Dichloroethene
Concen: 4127.79 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. 0.020 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 61 Resp: 96639

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.4	62.4

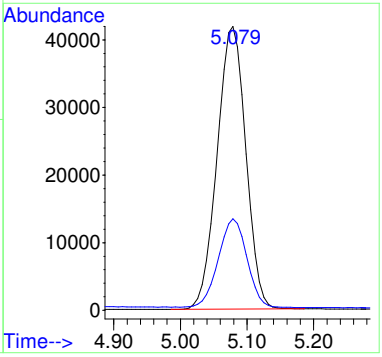


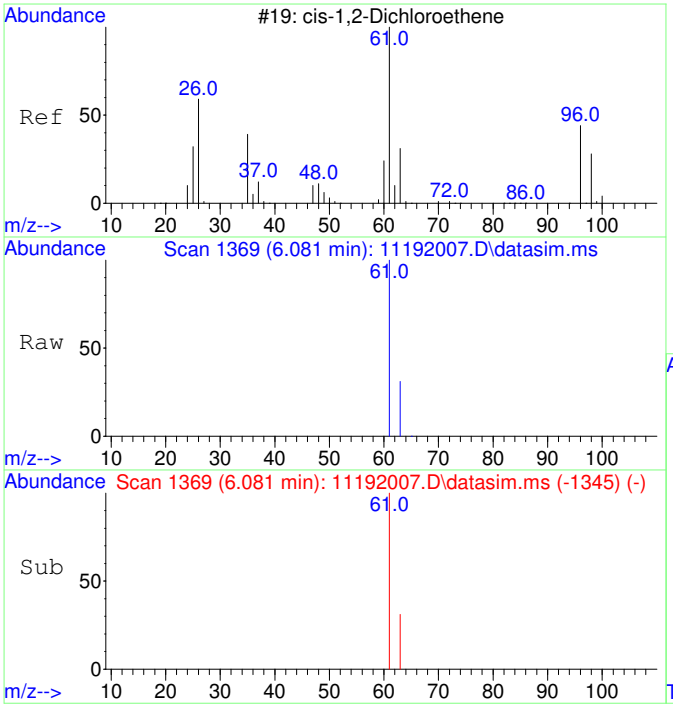


#4
1,1-Dichloroethane
Concen: 4304.03 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 63 Resp: 125433

Ion	Ratio	Lower	Upper
63	100		
65	31.0	1.8	61.8

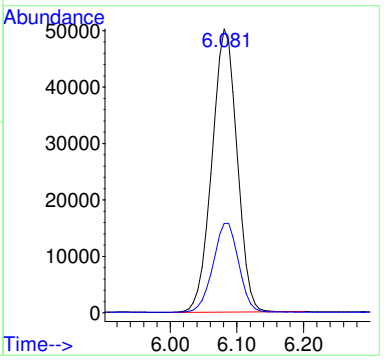


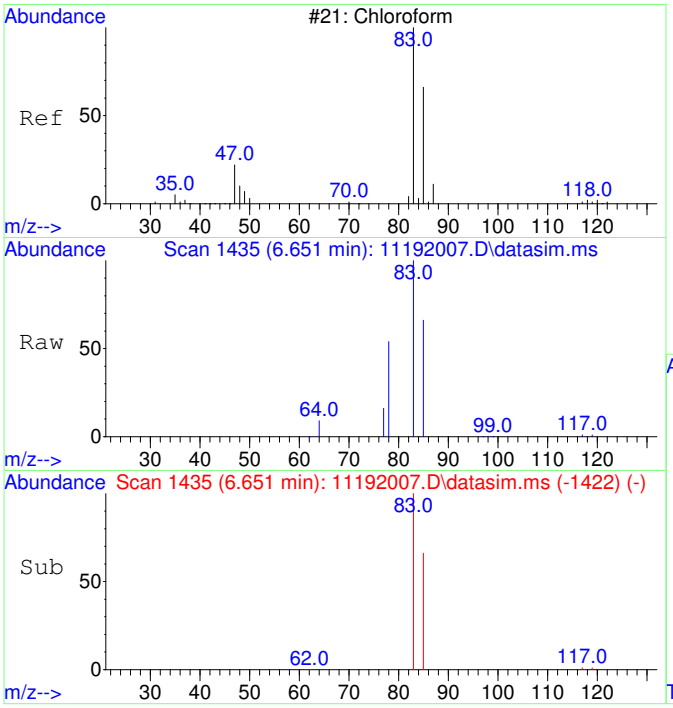


#5
cis-1,2-Dichloroethene
Concen: 4280.10 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.006 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 61 Resp: 131667

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

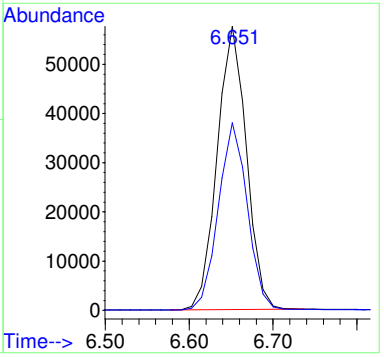


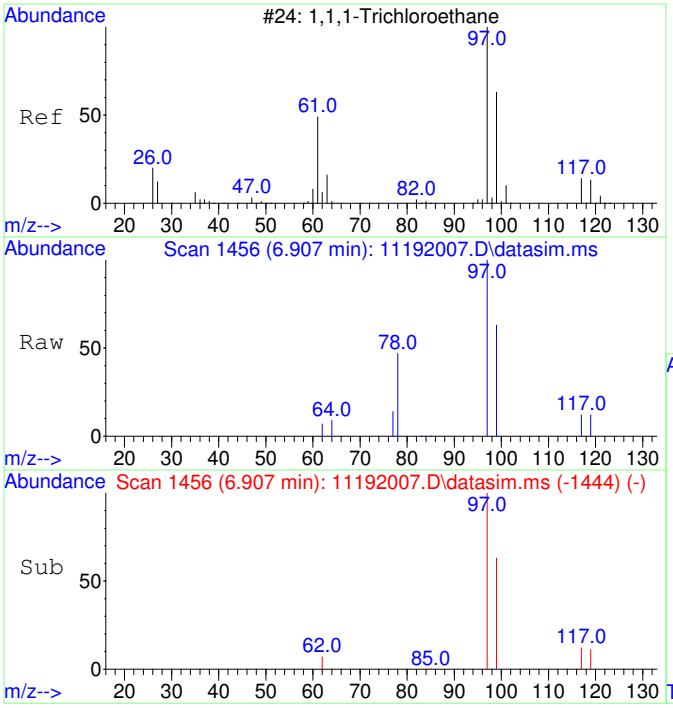


#6
Chloroform
Concen: 4416.69 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 83 Resp: 139067

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.1	95.1

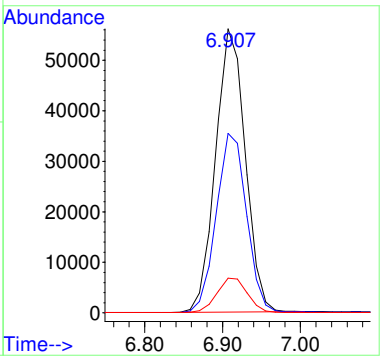


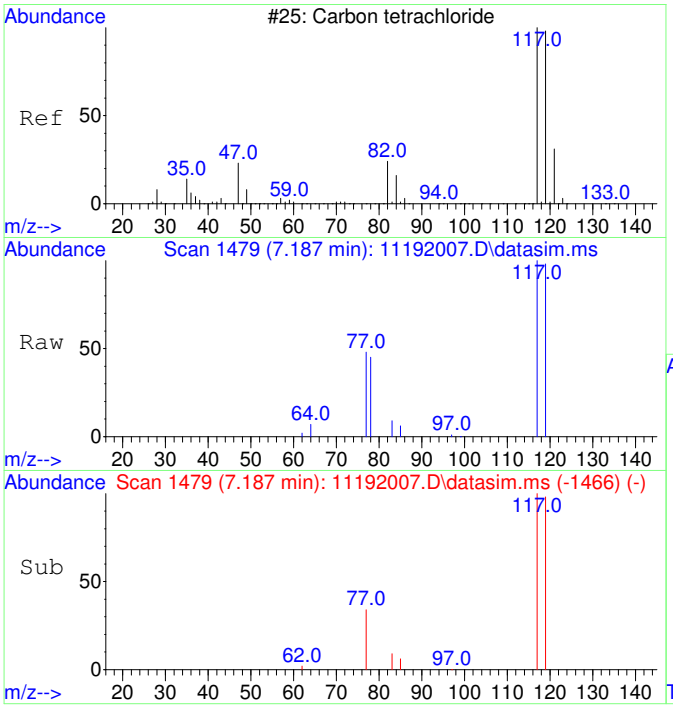


#7
1,1,1-Trichloroethane
Concen: 4341.12 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 97 Resp: 148444

Ion	Ratio	Lower	Upper
97	100		
99	64.3	34.6	94.6
117	12.5	0.0	43.2

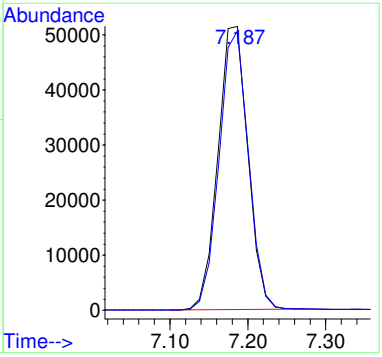


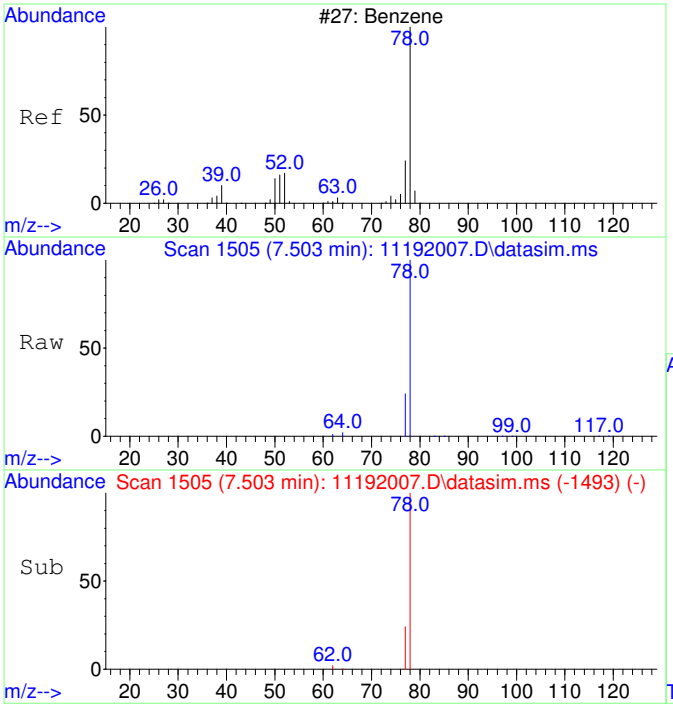


#8
Carbon tetrachloride
Concen: 4264.11 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:117 Resp: 137238

Ion	Ratio	Lower	Upper
117	100		
119	96.0	66.4	126.4

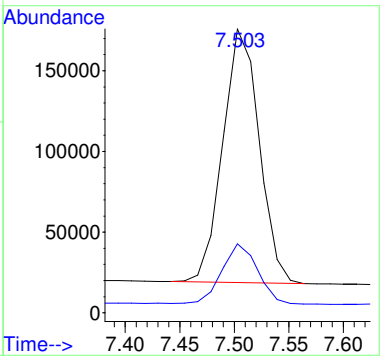


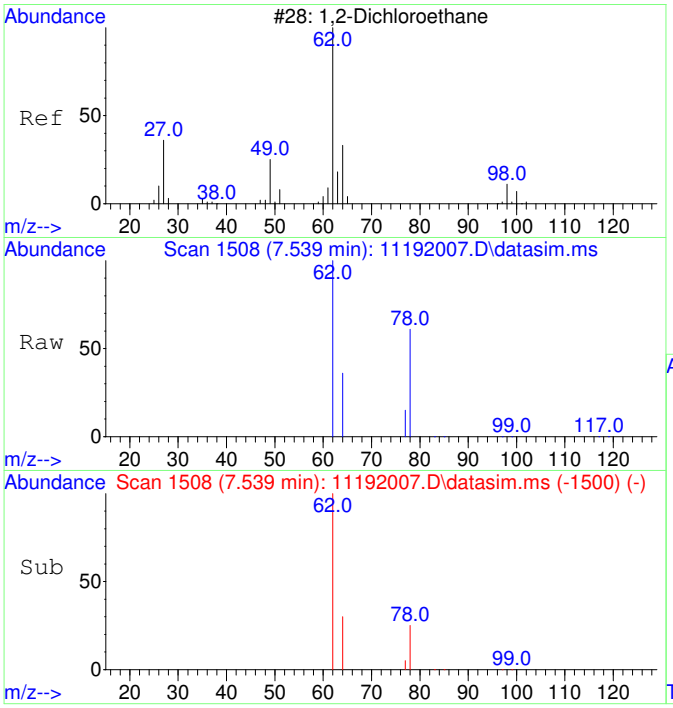


#9
Benzene
Concen: 4229.97 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 78 Resp: 364705

Ion	Ratio	Lower	Upper
78	100		
77	23.9	0.0	53.2

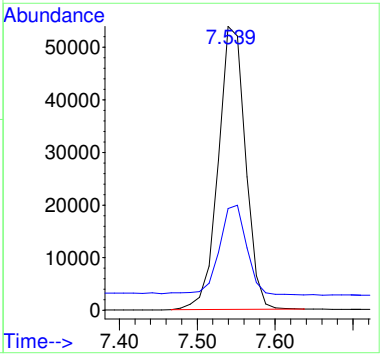


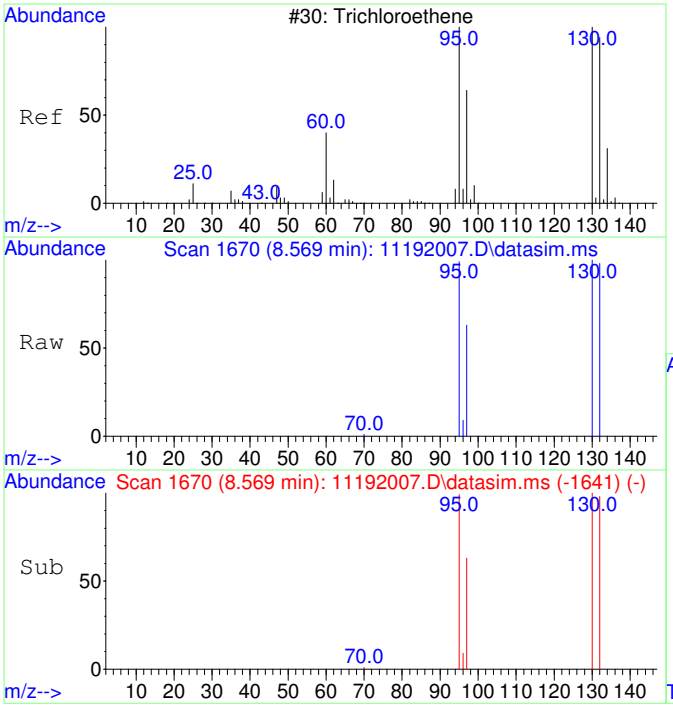


#10
1,2-Dichloroethane
Concen: 4243.73 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 62 Resp: 130615

Ion	Ratio	Lower	Upper
62	100		
64	31.7	2.3	62.3

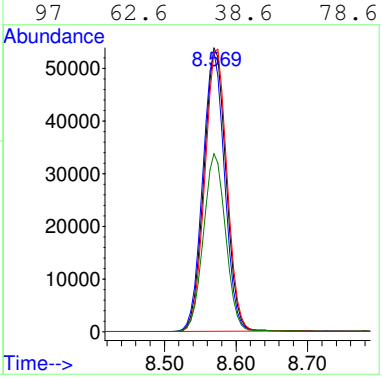


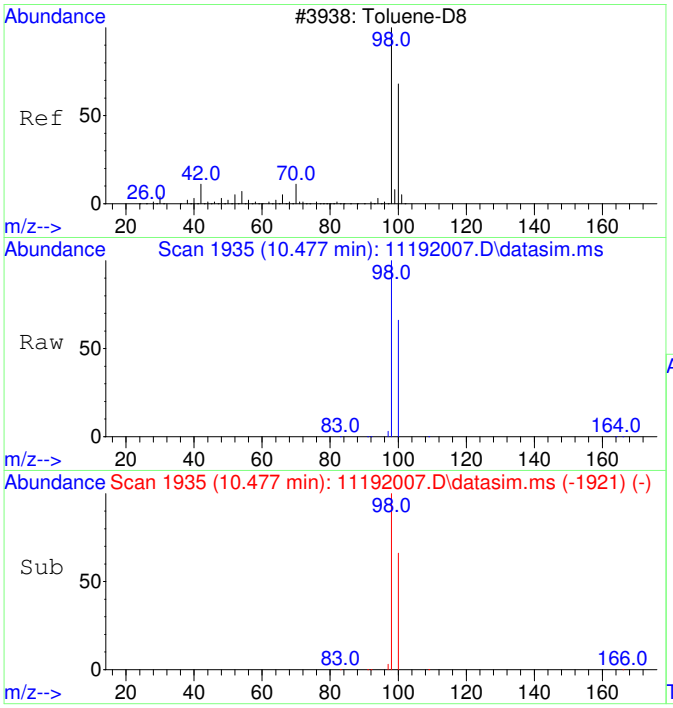


#11
Trichloroethene
Concen: 4444.96 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:130 Resp: 115389

Ion	Ratio	Lower	Upper
130	100		
95	97.6	60.7	120.7
132	99.8	76.0	116.0
97	62.6	38.6	78.6

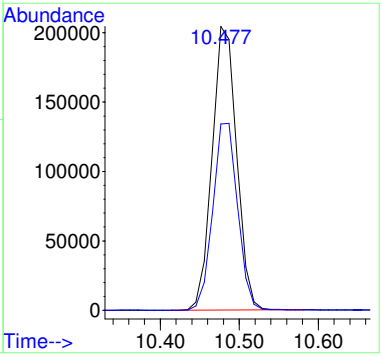


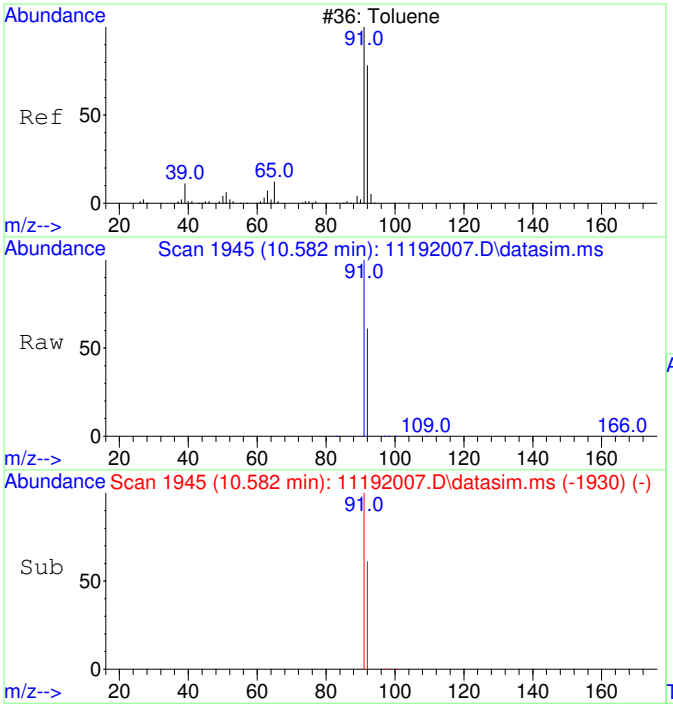


#12
Toluene-d8
Concen: 4443.55 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 98 Resp: 441420

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

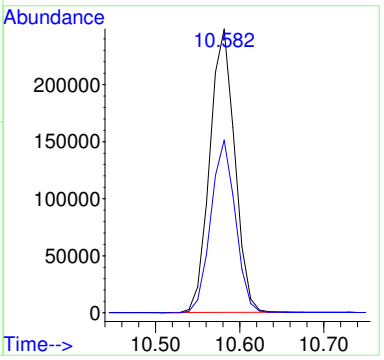


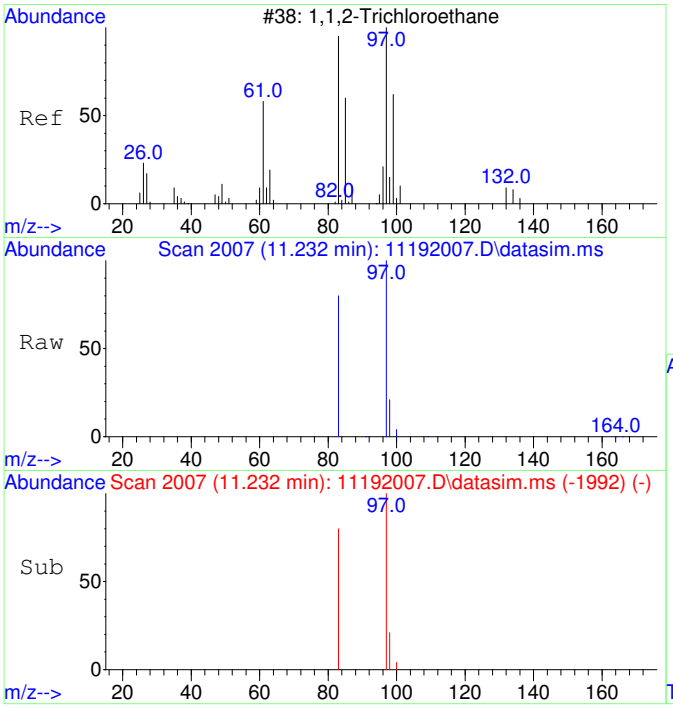


#13
Toluene
Concen: 4047.81 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 91 Resp: 512651

Ion	Ratio	Lower	Upper
91	100		
92	59.7	29.9	89.9

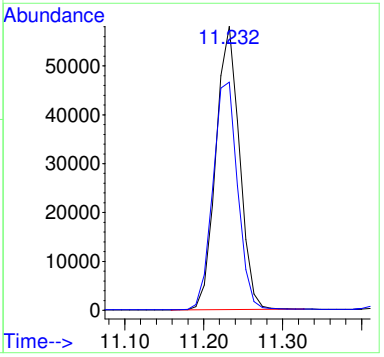


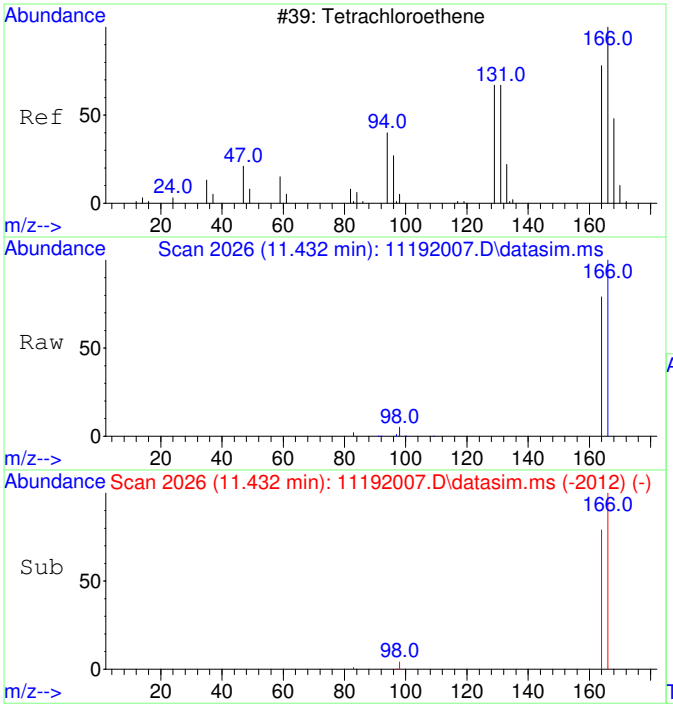


#14
1,1,2-Trichloroethane
Concen: 4338.84 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 97 Resp: 119738

Ion	Ratio	Lower	Upper
97	100		
83	84.4	51.2	111.2

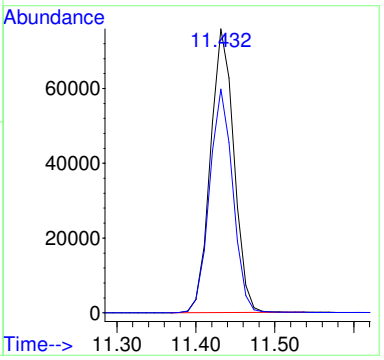


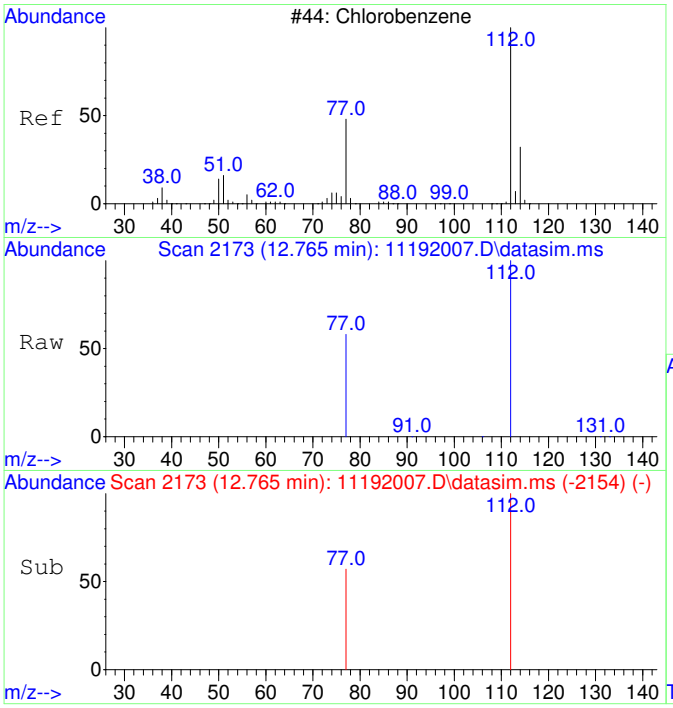


#15
Tetrachloroethene
Concen: 4268.62 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:166 Resp: 156453

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

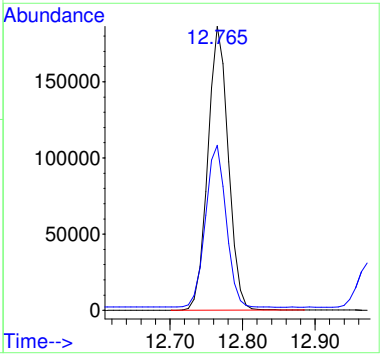


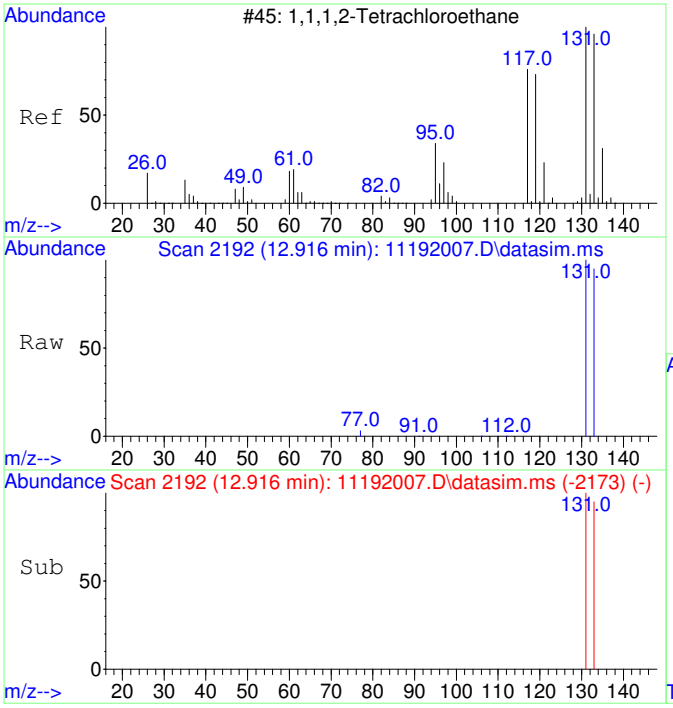


#16
Chlorobenzene
Concen: 4032.93 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:112 Resp: 365727

Ion	Ratio	Lower	Upper
112	100		
77	57.5	23.6	83.6

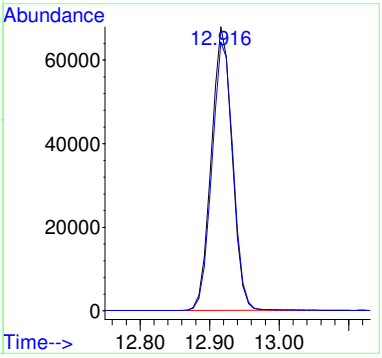


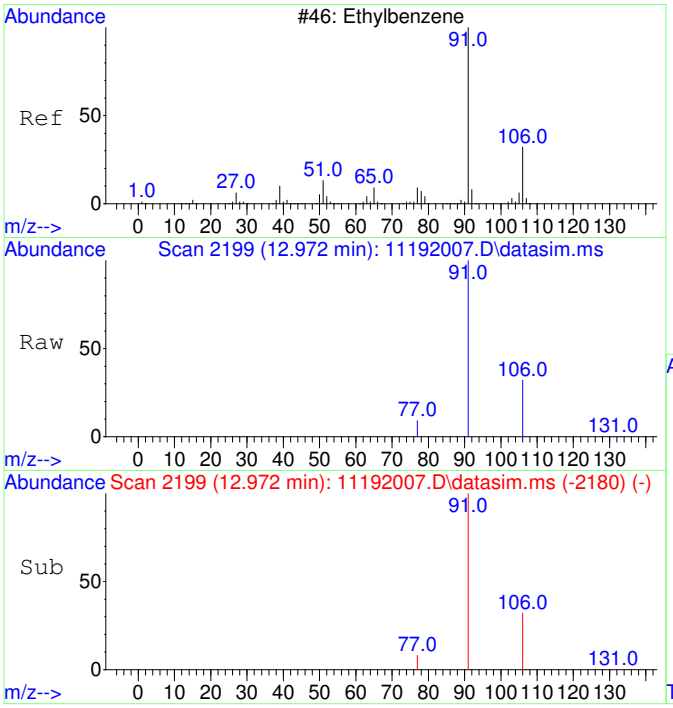


#17
1,1,1,2-Tetrachloroethane
Concen: 4335.73 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:131 Resp: 140887

Ion	Ratio	Lower	Upper
131	100		
133	95.8	66.3	126.3

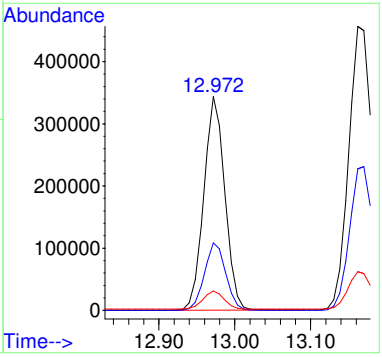


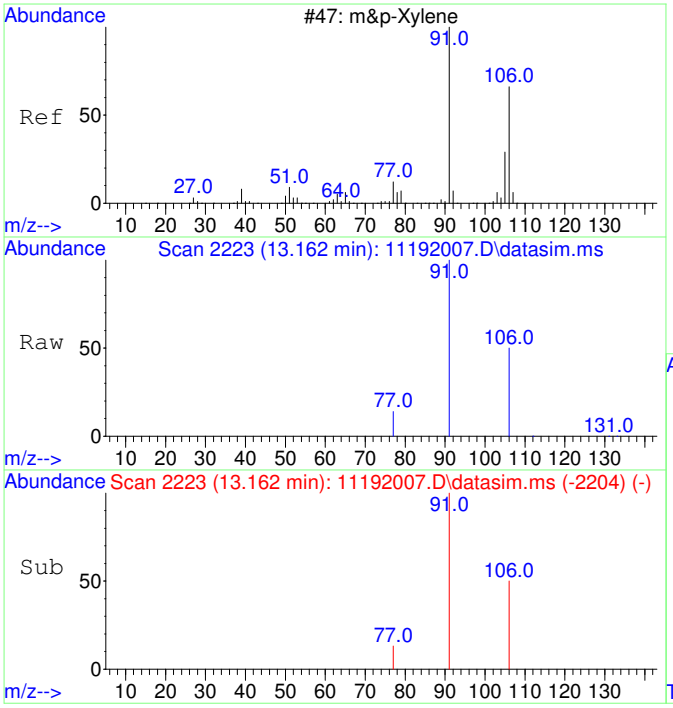


#18
Ethylbenzene
Concen: 4281.94 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 91 Resp: 660096

Ion	Ratio	Lower	Upper
91	100		
106	31.9	3.0	63.0
77	8.5	0.0	38.2

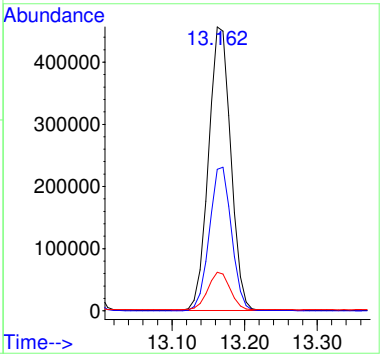


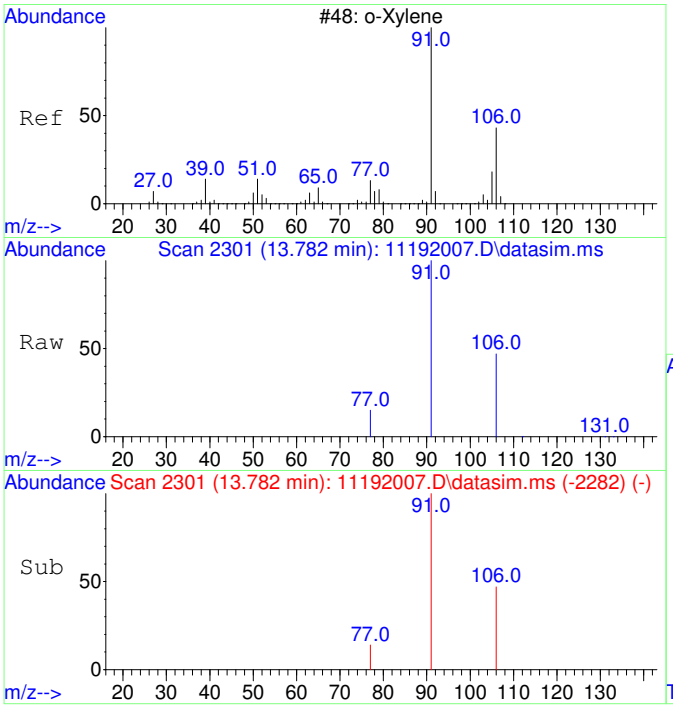


#19
m&p-Xylene
Concen: 8090.93 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 91 Resp: 974831

Ion	Ratio	Lower	Upper
91	100		
106	50.3	22.2	82.2
77	13.1	0.0	42.4

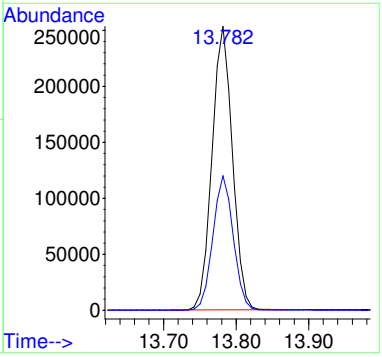


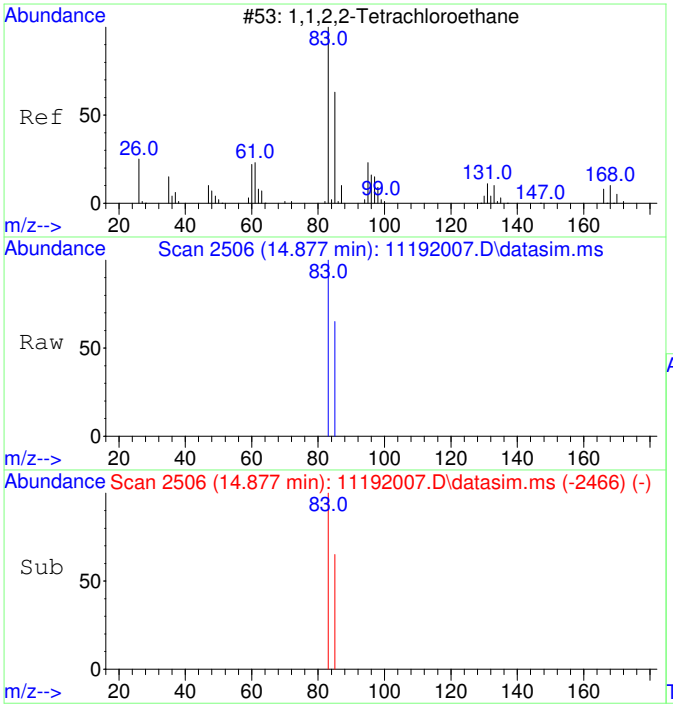


#20
o-Xylene
Concen: 3847.88 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 91 Resp: 495307

Ion	Ratio	Lower	Upper
91	100		
106	47.4	19.2	79.2

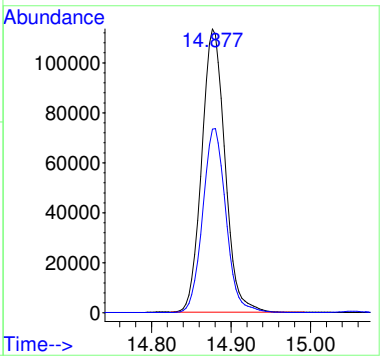


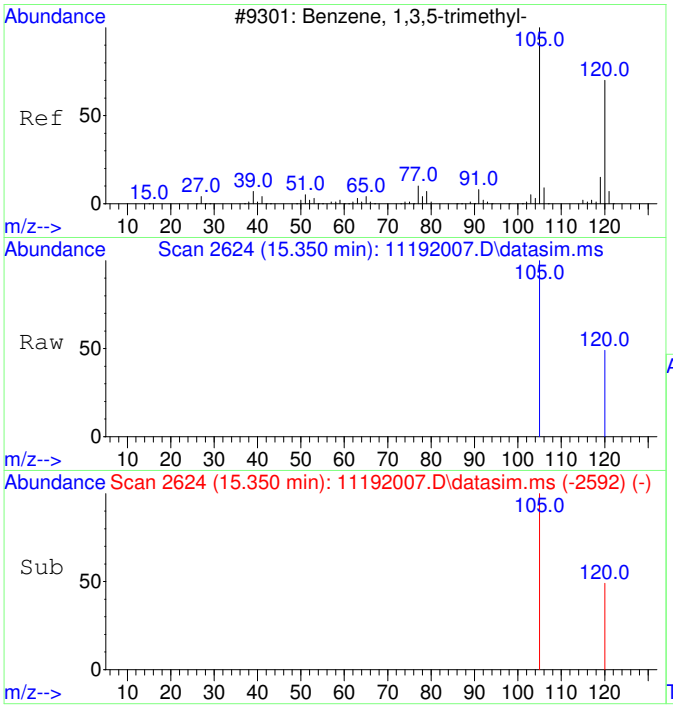


#21
1,1,2,2-Tetrachloroethane
Concen: 4031.02 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 83 Resp: 229964

Ion	Ratio	Lower	Upper
83	100		
85	65.0	34.8	94.8

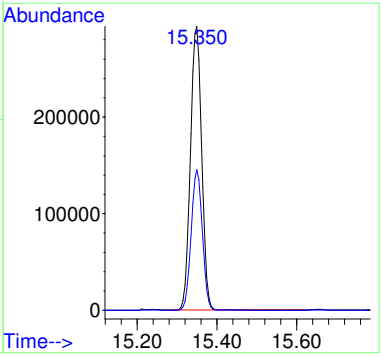


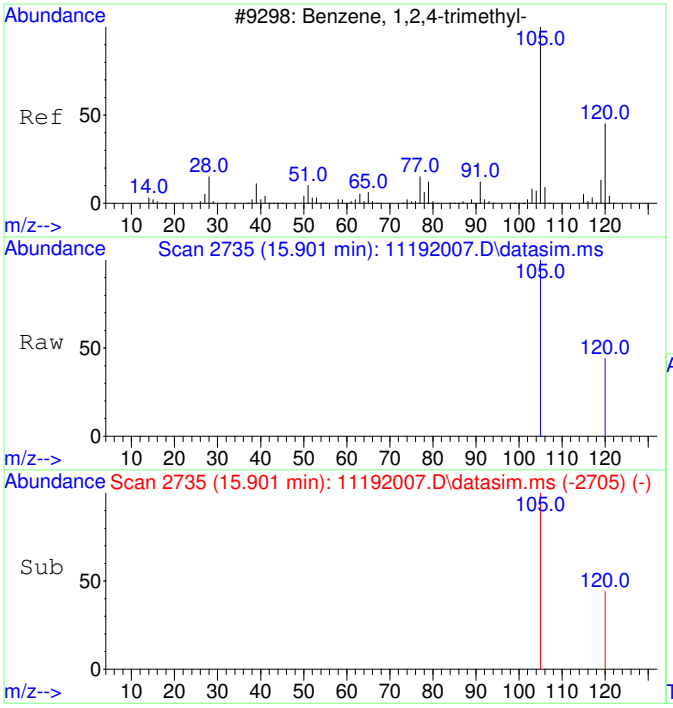


#22
1,3,5-Trimethylbenzene
Concen: 4209.41 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:105 Resp: 576729

Ion	Ratio	Lower	Upper
105	100		
120	49.0	21.1	81.1

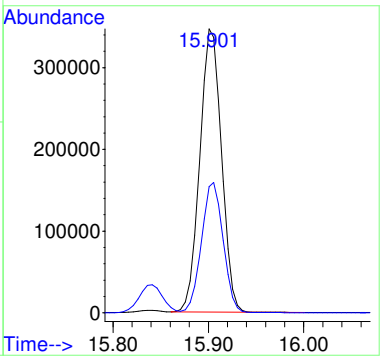


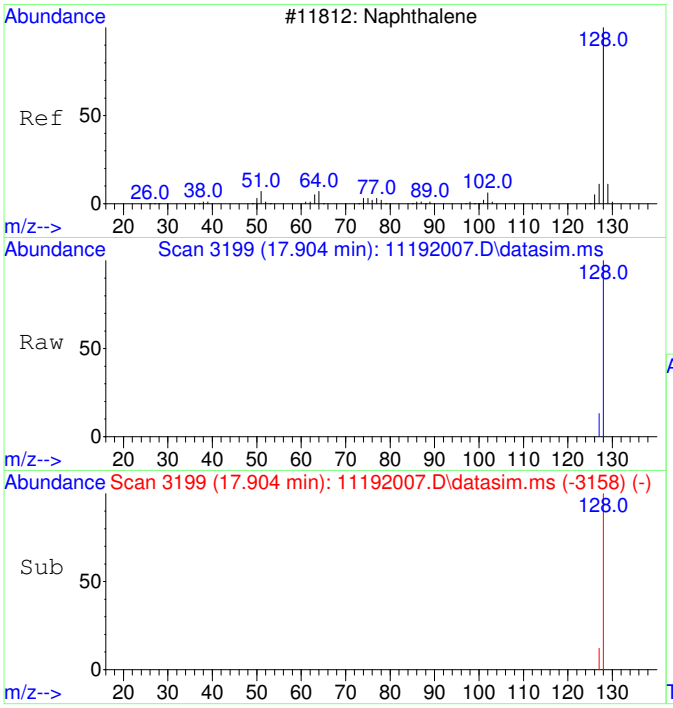


#23
1,2,4-Trimethylbenzene
Concen: 3836.27 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:105 Resp: 545944

Ion	Ratio	Lower	Upper
105	100		
120	45.1	17.2	77.2

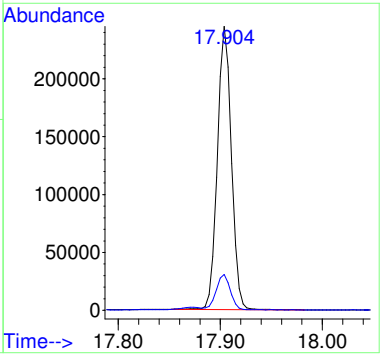


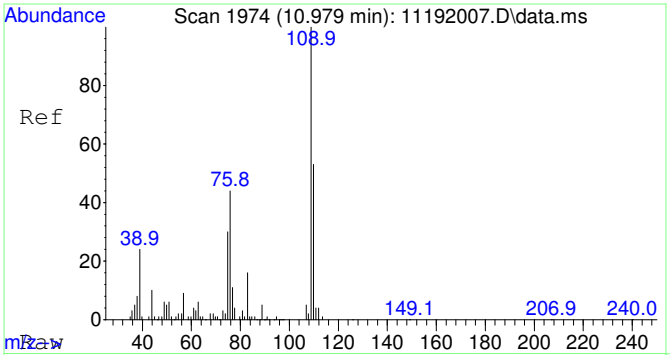


#24
Naphthalene
Concen: 1031.47 ug/L
RT: 17.904 min Scan# 3199
Delta R.T. 0.001 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:128 Resp: 232001

Ion	Ratio	Lower	Upper
128	100		
127	11.7	0.0	42.5

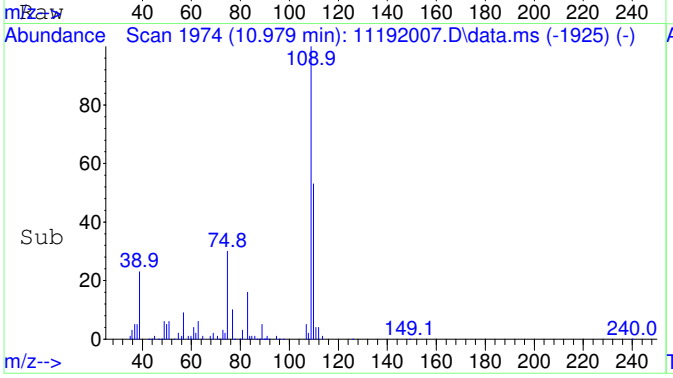


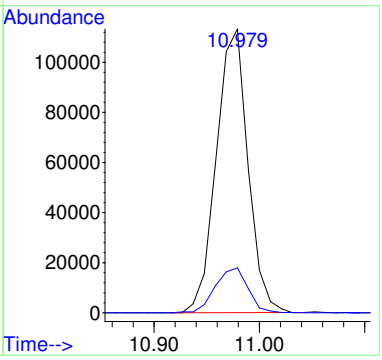


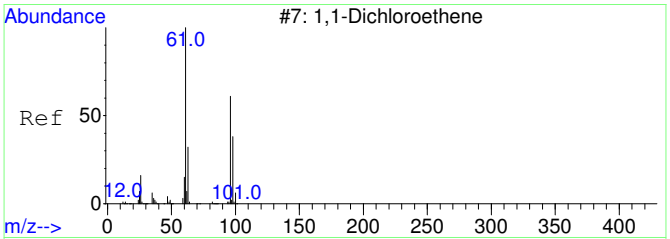
#25
2-Fluorotoluene SCAN
Concen: 4778.90 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

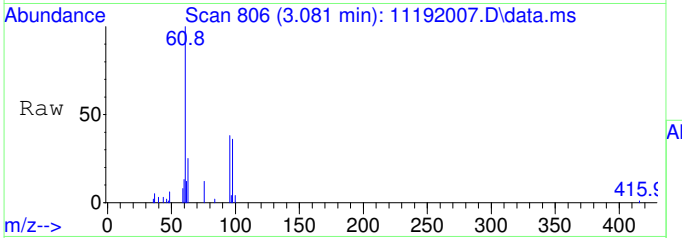
Tgt Ion:109 Resp: 236400

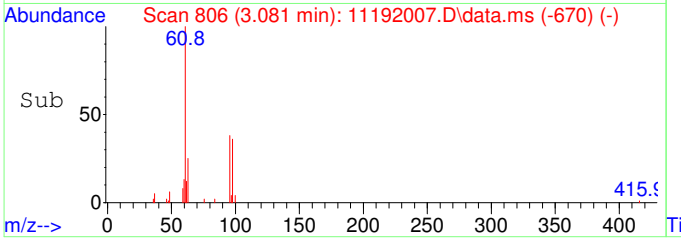
Ion	Ratio	Lower	Upper
109	100		
83	16.4	0.0	43.8







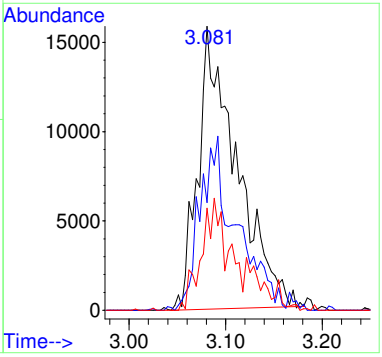


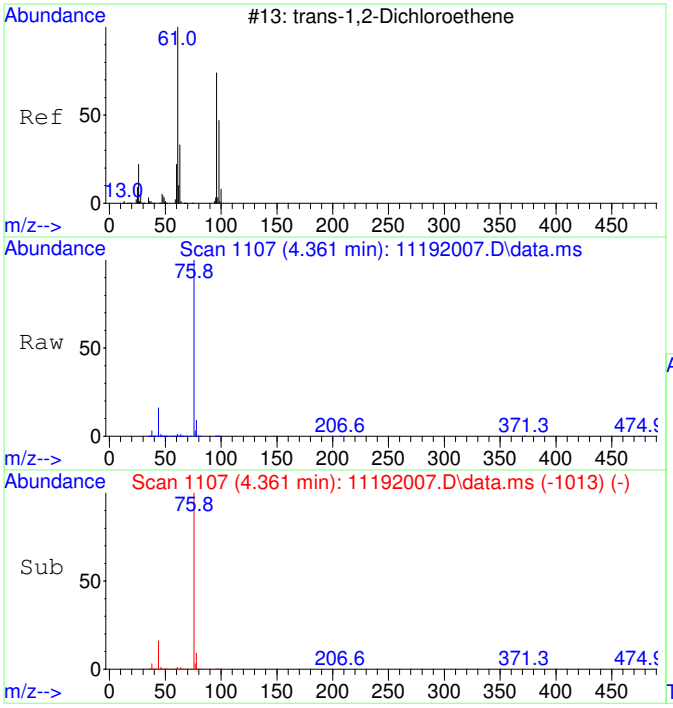


#26
1,1-Dichloroethene SCAN
Concen: 4195.36 ug/L
RT: 3.081 min Scan# 806
Delta R.T. 0.003 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 61 Resp: 44074

Ion	Ratio	Lower	Upper
61	100		
96	56.5	33.1	93.1
98	22.5	11.2	71.2

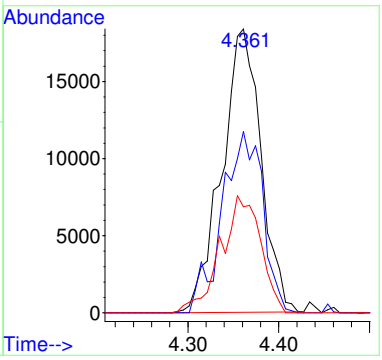


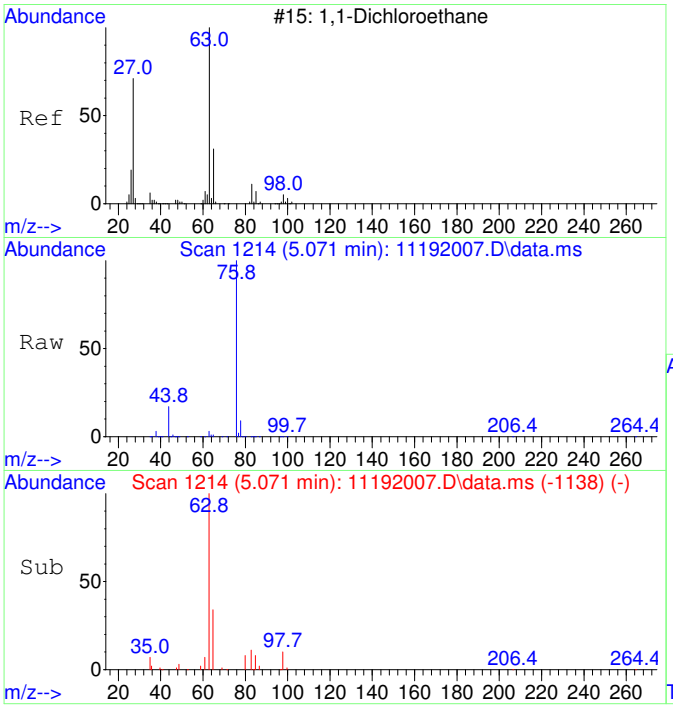


#27
trans-1,2-Dichloroethene SCAN
Concen: 4253.70 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. 0.013 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 61 Resp: 55297

Ion	Ratio	Lower	Upper
61	100		
96	66.1	49.0	109.0
98	41.9	20.5	80.5

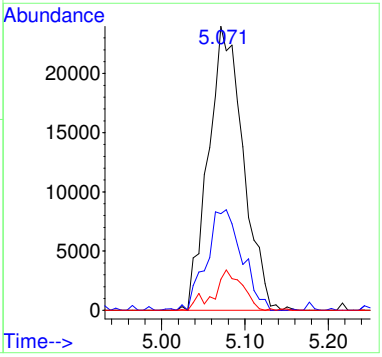


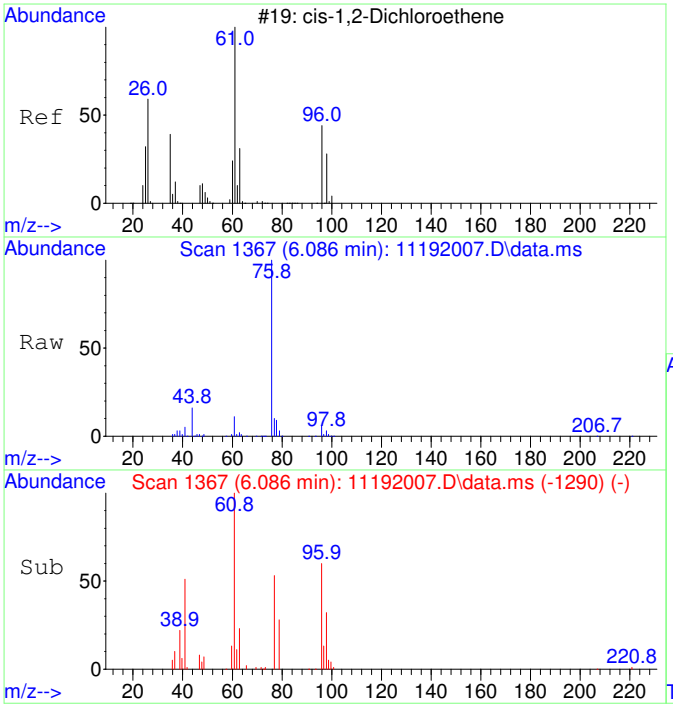


#28
1,1-Dichloroethane SCAN
Concen: 4633.33 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.006 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 63 Resp: 69707

Ion	Ratio	Lower	Upper
63	100		
65	36.2	1.3	61.3
83	8.4	0.0	45.9

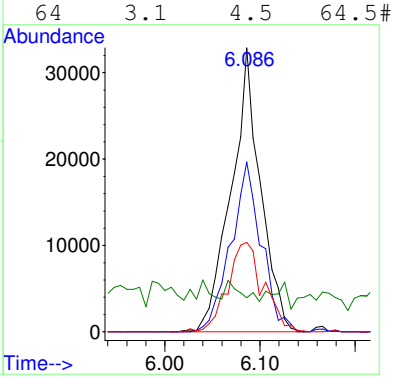


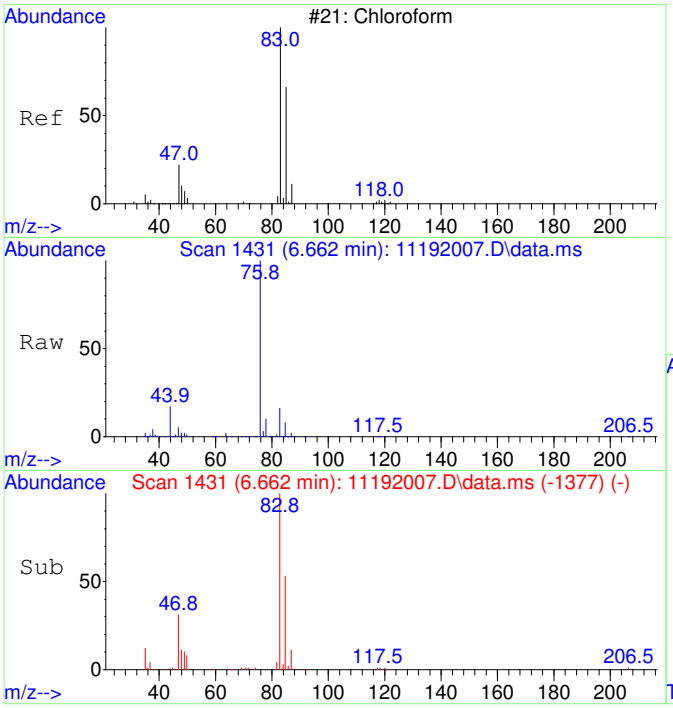


#29
cis-1,2-Dichloroethene SCAN
Concen: 4392.78 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 61 Resp: 70807

Ion	Ratio	Lower	Upper
61	100		
96	62.2	39.9	99.9
98	38.5	13.5	73.5
64	3.1	4.5	64.5#

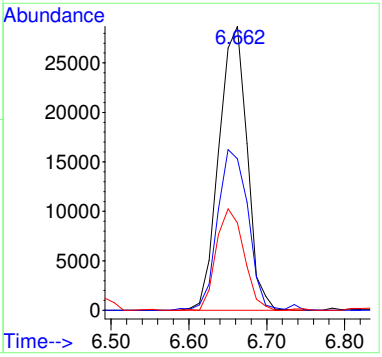


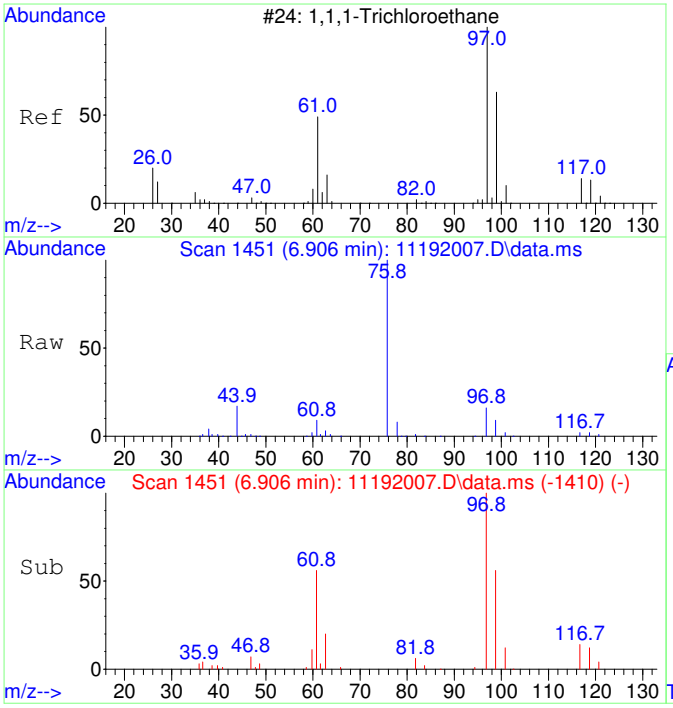


#30
Chloroform SCAN
Concen: 4137.56 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 83 Resp: 72338

Ion	Ratio	Lower	Upper
83	100		
85	60.4	34.6	94.6
47	35.2	0.0	53.4

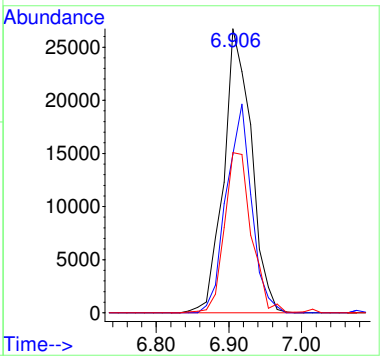


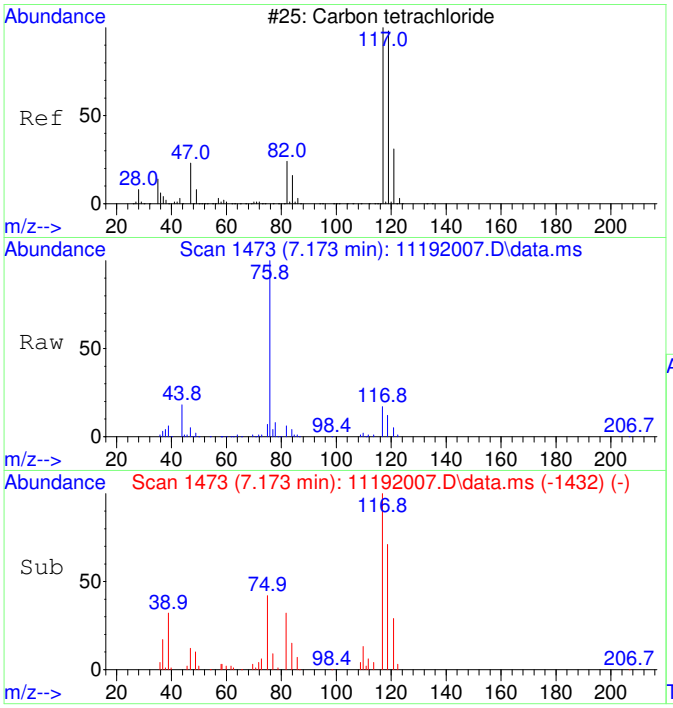


#31
1,1,1-Trichloroethane SCAN
Concen: 4442.40 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 97 Resp: 70777

Ion	Ratio	Lower	Upper
97	100		
99	67.1	43.6	103.6
61	54.7	18.0	78.0

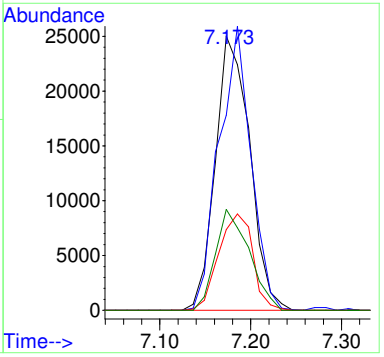


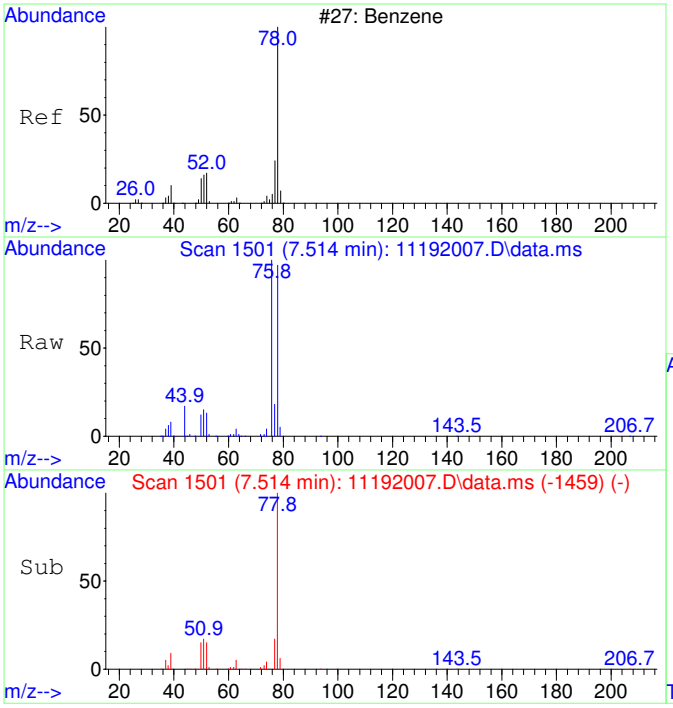


#32
Carbon tetrachloride SCAN
Concen: 3970.76 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:117 Resp: 65990

Ion	Ratio	Lower	Upper
117	100		
119	96.2	75.5	135.5
121	34.8	0.0	58.8
82	36.1	0.0	59.2

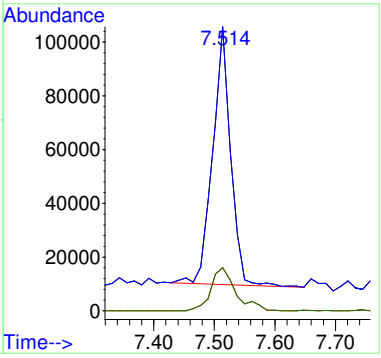


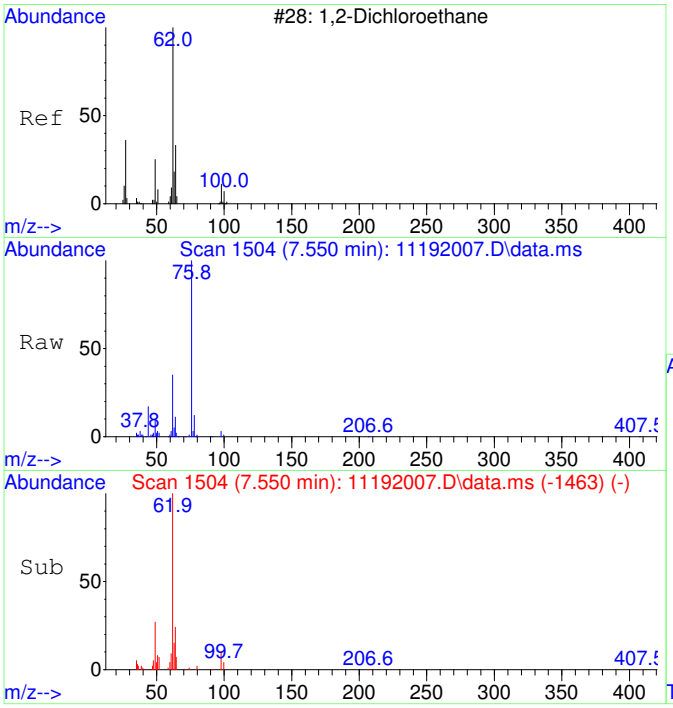


#33
Benzene SCAN
Concen: 4503.42 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 78 Resp: 197552

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	23.1	0.0	47.9
51	23.1	0.0	44.1

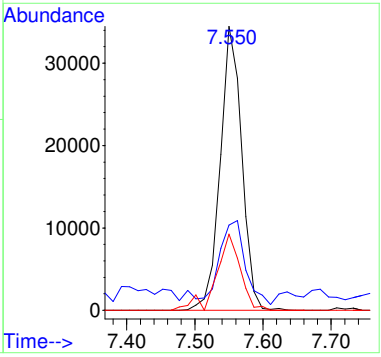


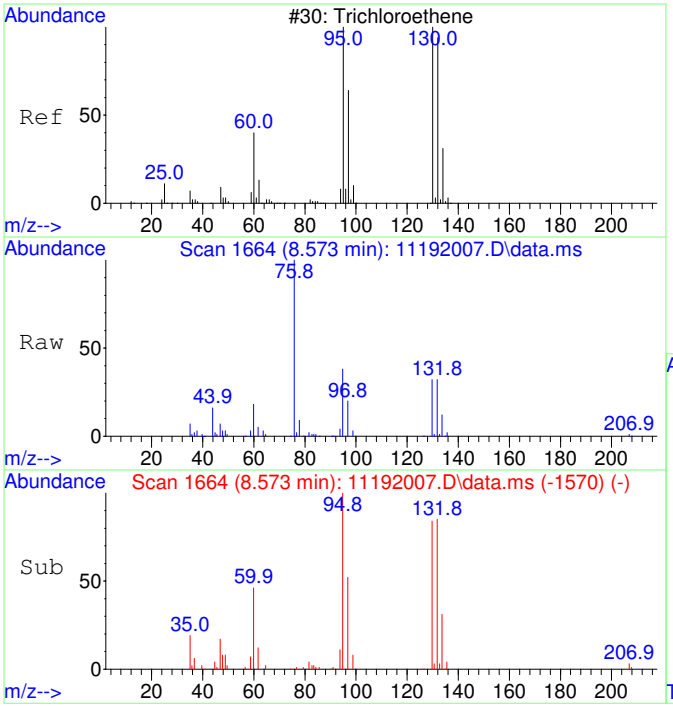


#34
1,2-Dichloroethane SCAN
Concen: 4658.88 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 62 Resp: 75465

Ion	Ratio	Lower	Upper
62	100		
64	32.2	5.2	65.2
49	29.8	3.9	63.9

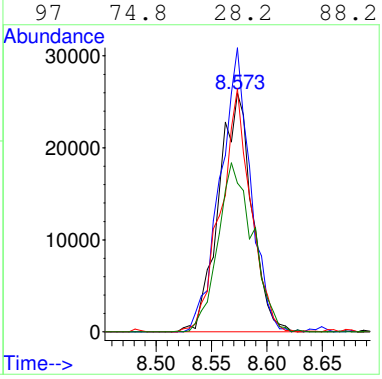


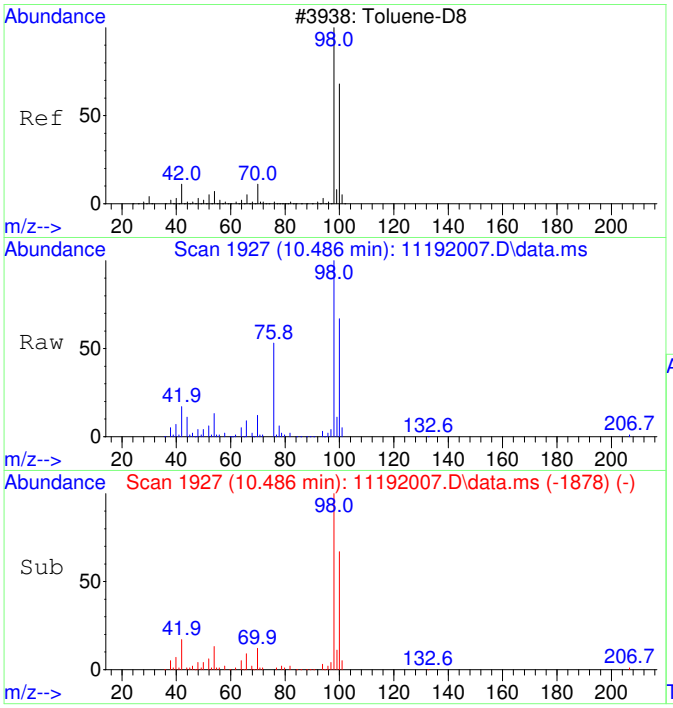


#35
Trichloroethene SCAN
Concen: 4489.84 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:130 Resp: 54125

Ion	Ratio	Lower	Upper
130	100		
95	108.6	60.5	120.5
132	92.7	59.6	119.6
97	74.8	28.2	88.2

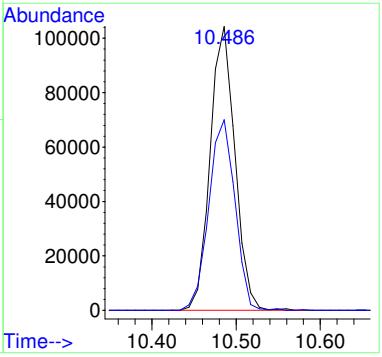


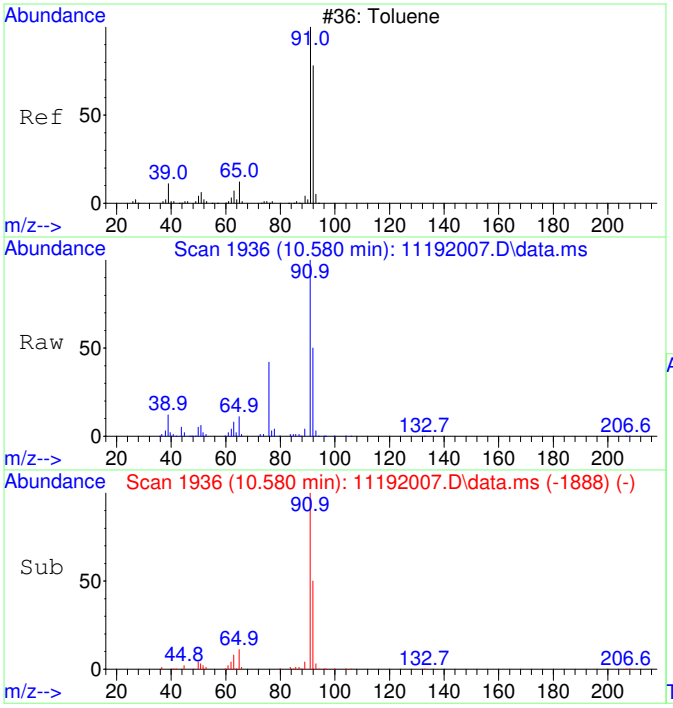


#36
Toluene-d8 SCAN
Concen: 4423.45 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 98 Resp: 213996

Ion	Ratio	Lower	Upper
98	100		
100	70.9	40.0	100.0

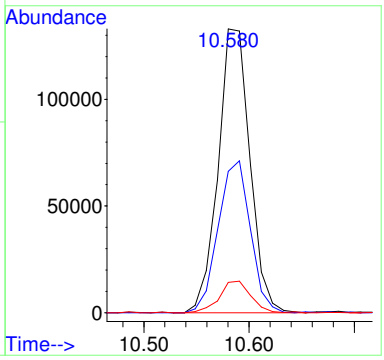


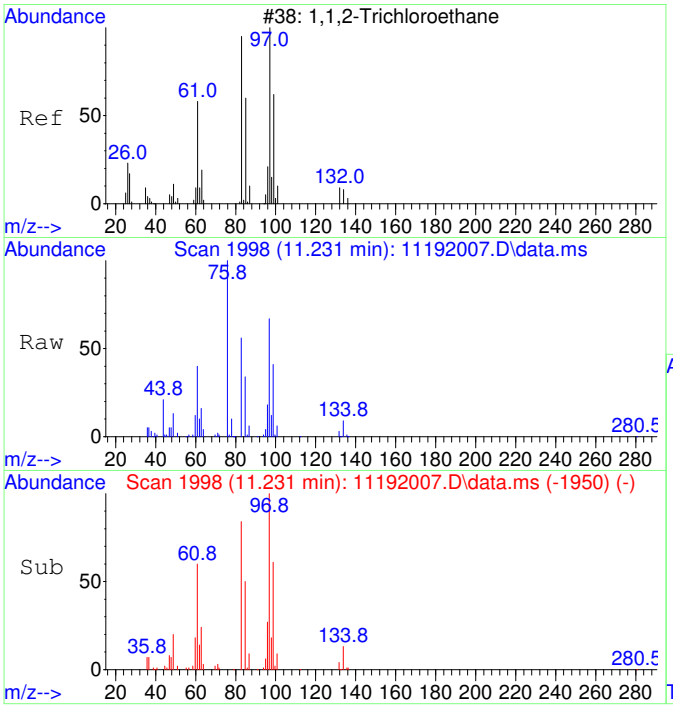


#37
Toluene SCAN
Concen: 4514.92 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 91 Resp: 279721

Ion	Ratio	Lower	Upper
91	100		
92	54.1	28.3	88.3
65	11.2	0.0	41.0

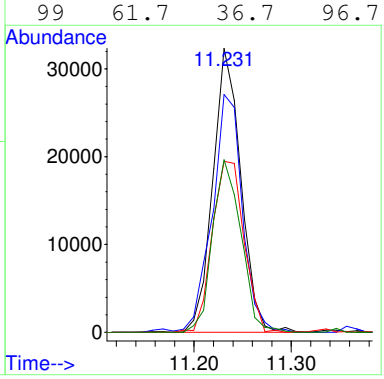


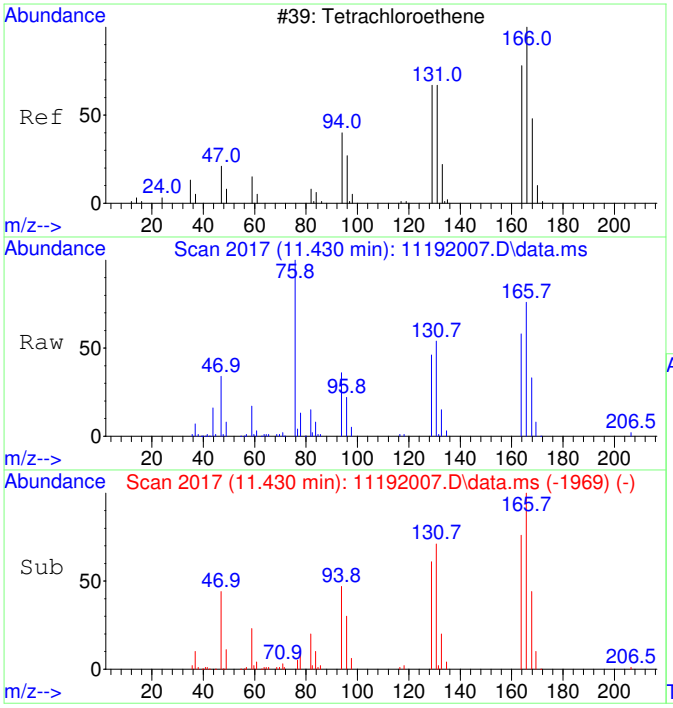


#38
1,1,2-Trichloroethane SCAN
Concen: 4657.20 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 97 Resp: 64764

Ion	Ratio	Lower	Upper
97	100		
83	90.6	57.7	117.7
61	67.7	32.1	92.1
99	61.7	36.7	96.7

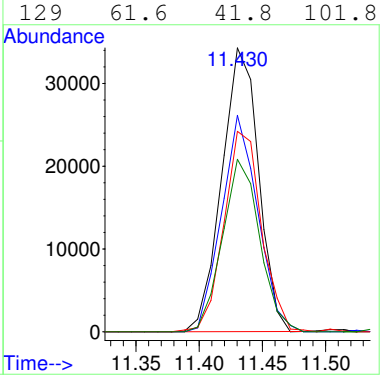


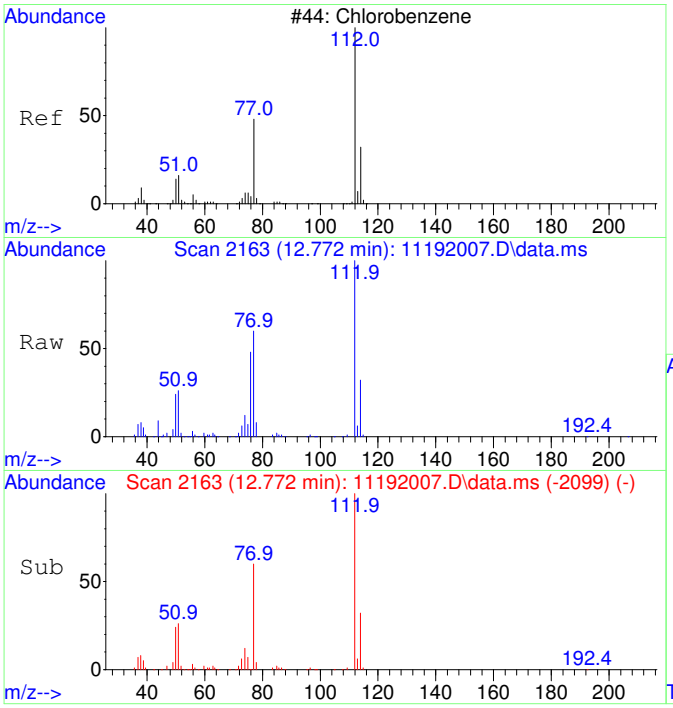


#39
Tetrachloroethene SCAN
Concen: 4668.03 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:166 Resp: 69481

Ion	Ratio	Lower	Upper
166	100		
164	75.2	50.9	110.9
131	72.3	38.7	98.7
129	61.6	41.8	101.8

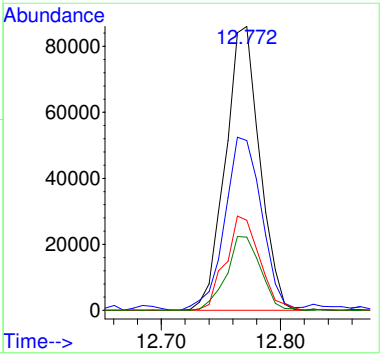


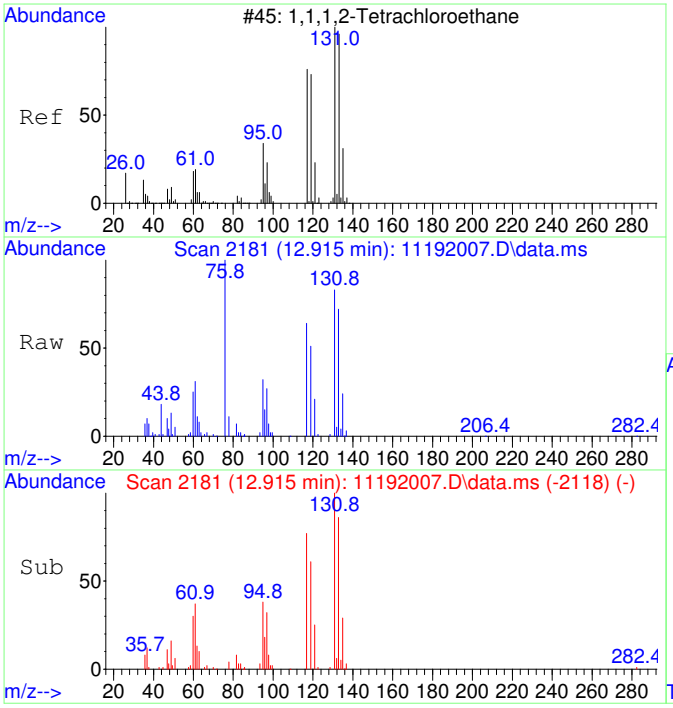


#40
Chlorobenzene SCAN
Concen: 4077.73 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:112 Resp: 172631

Ion	Ratio	Lower	Upper
112	100		
77	64.1	28.2	88.2
114	32.8	2.3	62.3
51	25.7	0.0	50.1

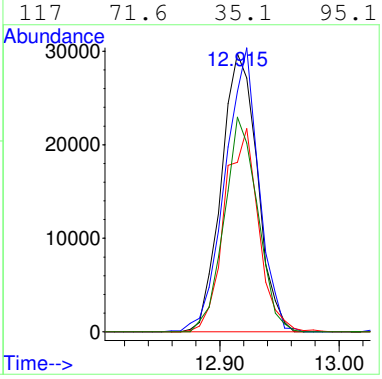


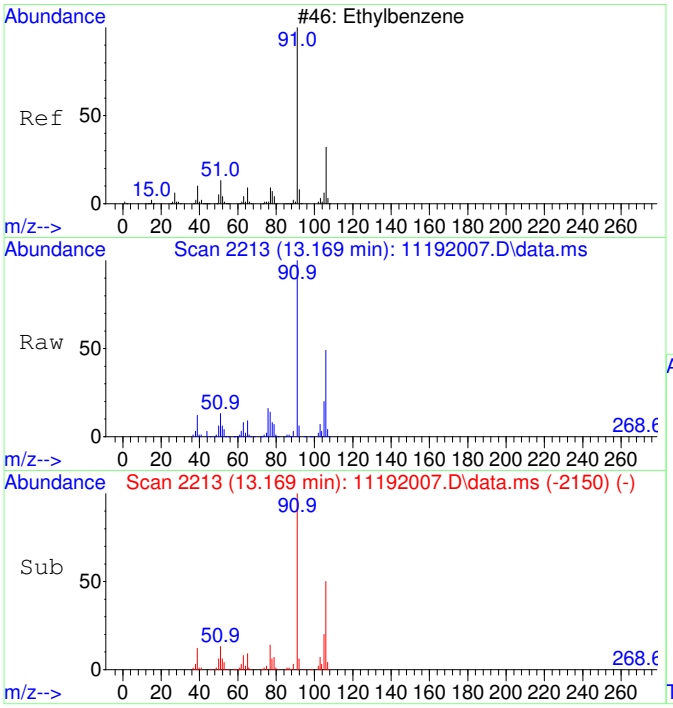


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 4000.12 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:131 Resp: 62671

Ion	Ratio	Lower	Upper
131	100		
133	96.0	66.9	126.9
119	69.3	40.4	100.4
117	71.6	35.1	95.1

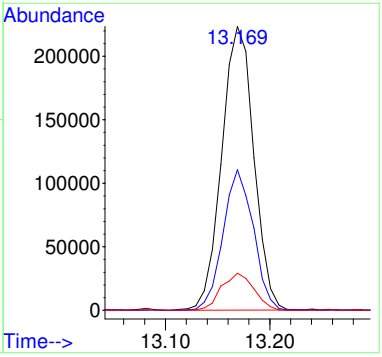


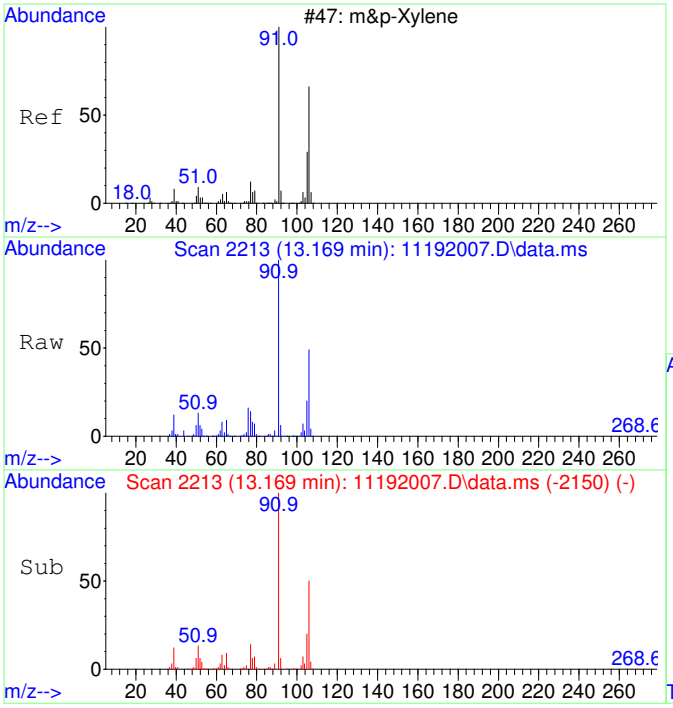


#42
Ethylbenzene SCAN
Concen: 4226.29 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 91 Resp: 477024

Ion	Ratio	Lower	Upper
91	100		
106	46.9	23.1	83.1
51	13.3	0.0	40.1

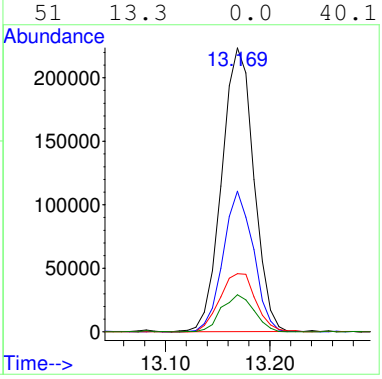


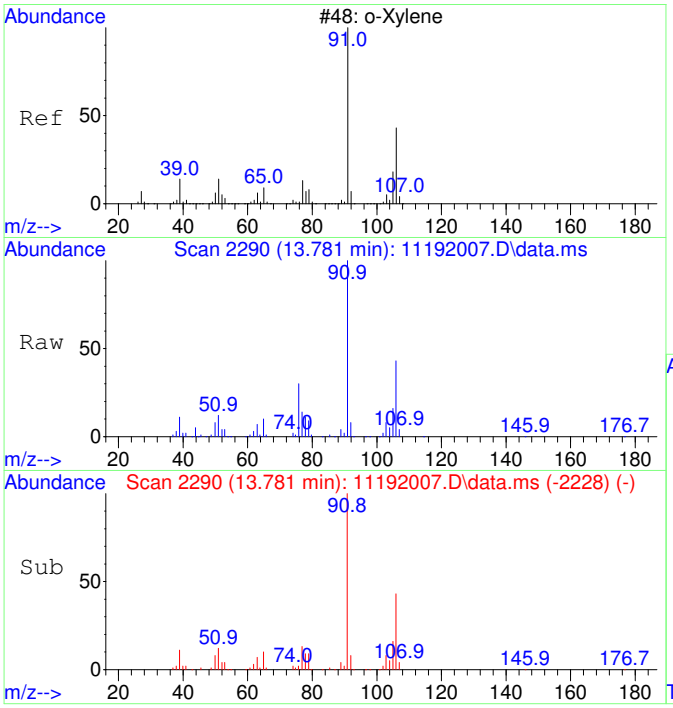


#43
m&p-Xylene SCAN
Concen: 4226.29 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 91 Resp: 477024

Ion	Ratio	Lower	Upper
91	100		
106	46.9	23.1	83.1
105	23.0	0.0	54.7
51	13.3	0.0	40.1

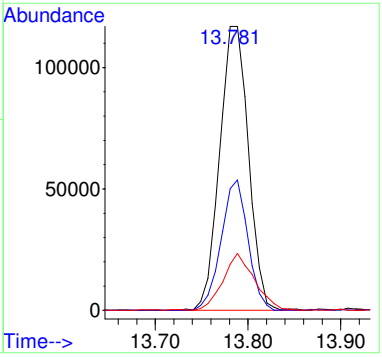


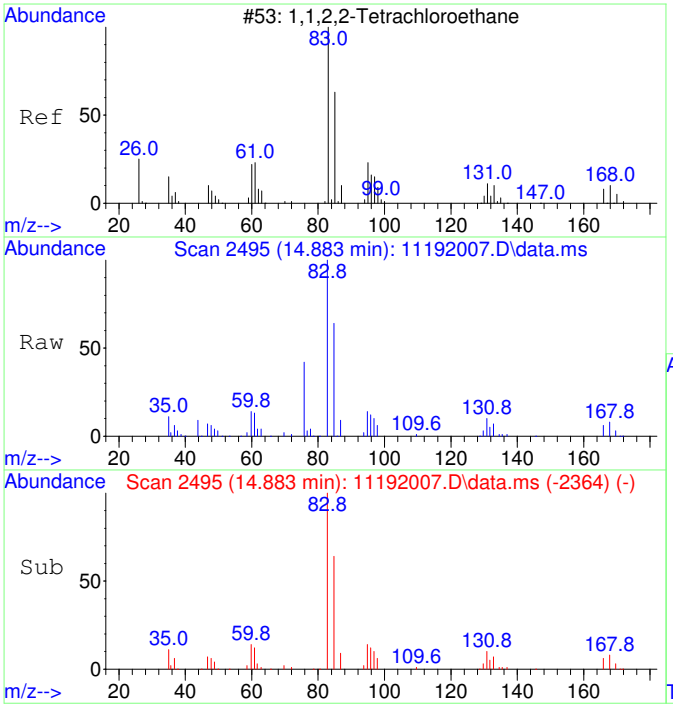


#44
o-Xylene SCAN
Concen: 4188.53 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 91 Resp: 253058

Ion	Ratio	Lower	Upper
91	100		
106	42.7	18.0	78.0
105	22.0	0.0	56.6

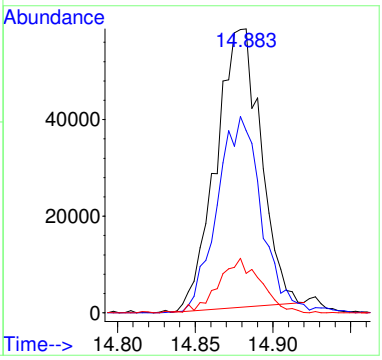


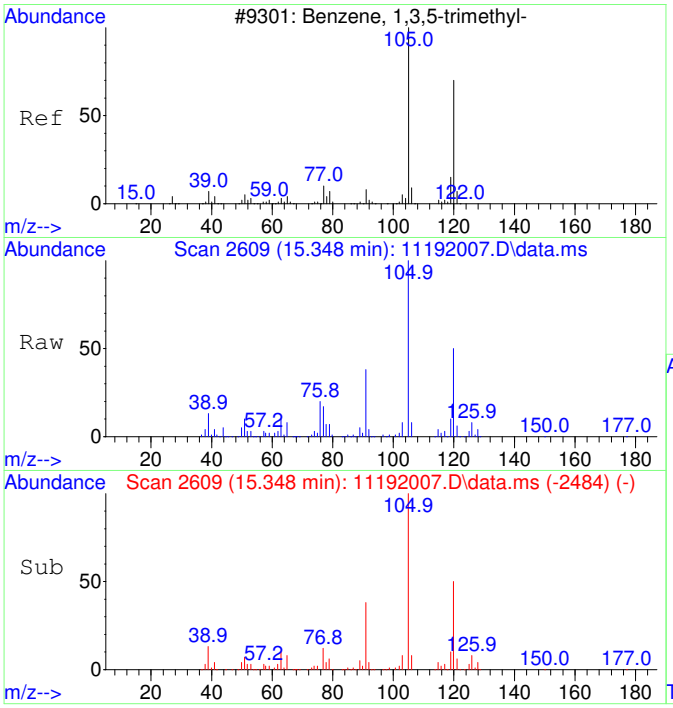


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 3939.76 ug/L
RT: 14.883 min Scan# 2495
Delta R.T. 0.011 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion: 83 Resp: 116066

Ion	Ratio	Lower	Upper
83	100		
85	70.4	35.9	95.9
95	18.4	0.0	47.4

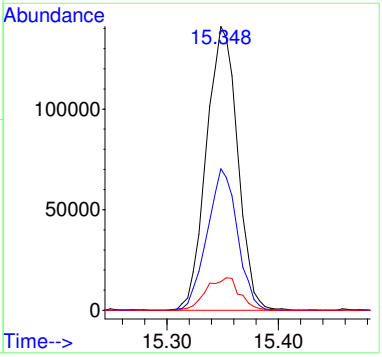


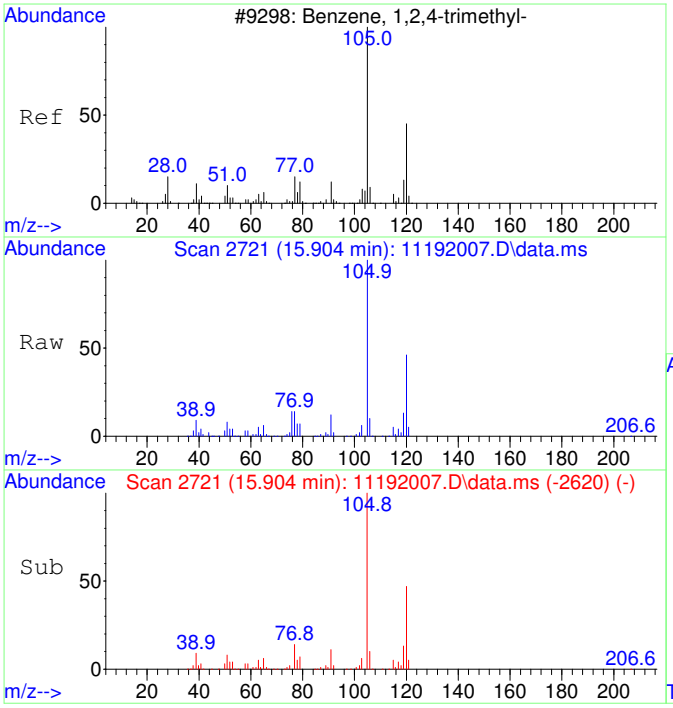


#46
1,3,5-Trimethylbenzene SCAN
Concen: 4322.19 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:105 Resp: 275208

Ion	Ratio	Lower	Upper
105	100		
120	48.5	18.3	78.3
119	12.2	0.0	43.1

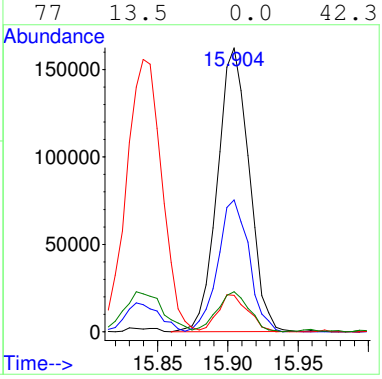


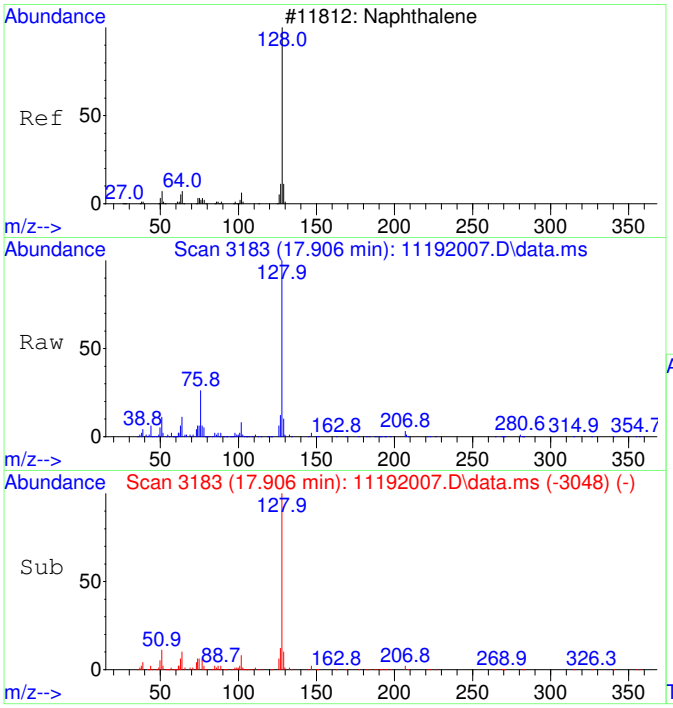


#47
1,2,4-Trimethylbenzene SCAN
Concen: 3899.86 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:105 Resp: 254083

Ion	Ratio	Lower	Upper
105	100		
120	45.5	16.9	76.9
119	11.7	0.0	41.9
77	13.5	0.0	42.3

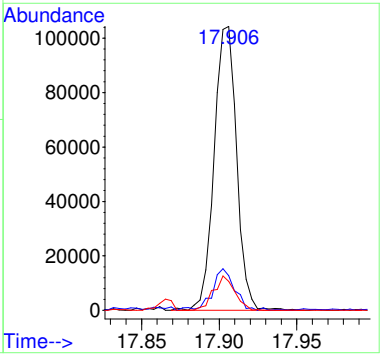




#48
Naphthalene SCAN
Concen: 1069.08 ug/L
RT: 17.906 min Scan# 3183
Delta R.T. 0.001 min
Lab File: 11192007.D
Acq: 19 Nov 2020 10:44

Tgt Ion:128 Resp: 105396

Ion	Ratio	Lower	Upper
128	100		
127	14.3	0.0	44.0
129	11.4	0.0	40.8



B20K078-MRL1

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192008.D
Acq On : 19 Nov 2020 11:08
InstName : AG5975C
Operator : TD
Sample : B20K078-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 23 08:14:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

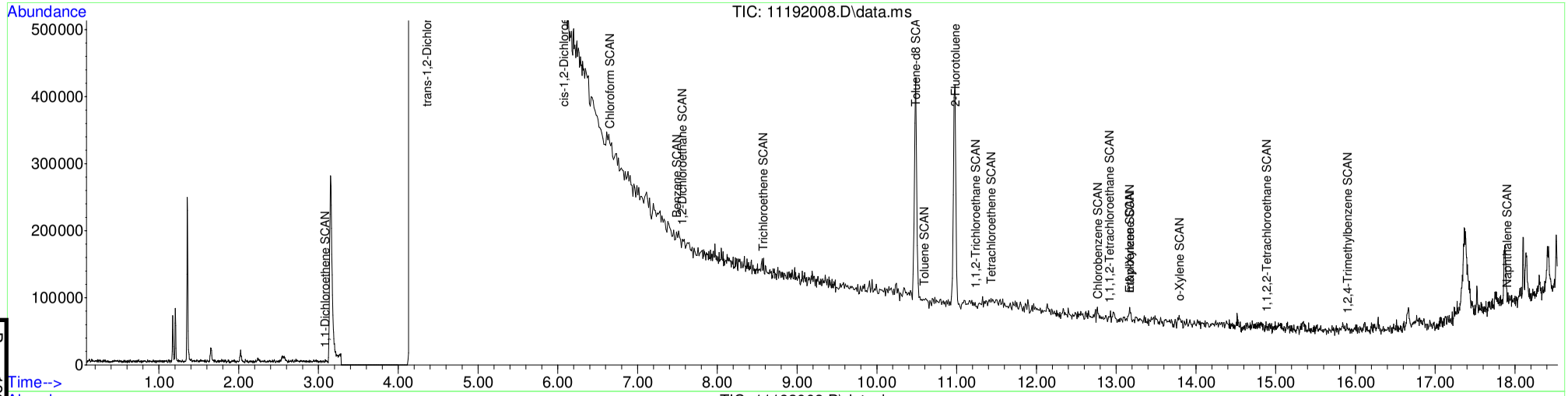
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	562715	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	482886	4383.60	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.67%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	1637	72.85	ug/L	80
3] trans-1,2-Dichloroethene	4.369	61	1268	48.84	ug/L	88
4] 1,1-Dichloroethane	5.086	63	1603	49.60	ug/L	57
5] cis-1,2-Dichloroethene	6.088	61	1620	47.49	ug/L	92
6] Chloroform	6.652	83	1685	48.26	ug/L	97
7] 1,1,1-Trichloroethane	6.919	97	1806	47.63	ug/L	96
8] Carbon tetrachloride	7.187	117	1637	45.87	ug/L	96
9] Benzene	7.503	78	9579	100.19	ug/L	63
10] 1,2-Dichloroethane	7.552	62	1624	47.58	ug/L #	1
11] Trichloroethene	8.575	130	1413	49.09	ug/L	92
13] Toluene	10.582	91	7073	50.36	ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	1394	45.55	ug/L	69
15] Tetrachloroethene	11.432	166	1946	47.88	ug/L	98
16] Chlorobenzene	12.765	112	4753	47.26	ug/L	87
17] 1,1,1,2-Tetrachloroethane	12.916	131	1733	48.09	ug/L	99
18] Ethylbenzene	12.972	91	9152	53.54	ug/L	95
19] m&p-Xylene	13.162	91	14256	106.70	ug/L	95
20] o-Xylene	13.782	91	6661	46.67	ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.877	83	2870	45.37	ug/L	99
22] 1,3,5-Trimethylbenzene	15.350	105	7866	51.77	ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	8670	54.94	ug/L	91
25) 2-Fluorotoluene SCAN	10.979	109	269247	4908.40	ug/L	100
26) 1,1-Dichloroethene SCAN	3.077	61	238	20.43	ug/L #	46
27) trans-1,2-Dichloroethe...	4.355	61	713	49.46	ug/L #	48
29) cis-1,2-Dichloroethene...	6.073	61	563	31.50	ug/L #	1
30) Chloroform SCAN	6.650	83	955	49.26	ug/L #	56
33) Benzene SCAN	7.490	78	21061	432.96	ug/L	94
34) 1,2-Dichloroethane SCAN	7.563	62	562	31.29	ug/L #	1
35) Trichloroethene SCAN	8.574	130	655	49.00	ug/L #	67
36) Toluene-d8 SCAN	10.486	98	229459	4277.29	ug/L	98
37) Toluene SCAN	10.591	91	2558	37.23	ug/L #	48
38) 1,1,2-Trichloroethane ...	11.231	97	1208	78.34	ug/L #	49
39) Tetrachloroethene SCAN	11.430	166	1292	78.28	ug/L #	57
40) Chlorobenzene SCAN	12.772	112	3014	64.20	ug/L #	73
41) 1,1,1,2-Tetrachloroeth...	12.915	131	1039	59.80	ug/L #	57
42) Ethylbenzene SCAN	13.169	91	10481	83.74	ug/L	78
43) m&p-Xylene SCAN	13.169	91	10481	83.74	ug/L	83
44) o-Xylene SCAN	13.789	91	4079	60.88	ug/L #	80
45) 1,1,2,2-Tetrachloroeth...	14.887	83	2141	65.54	ug/L #	37
47) 1,2,4-Trimethylbenzene...	15.904	105	4021	55.66	ug/L #	59
48) Naphthalene SCAN	17.901	128	2332	21.33	ug/L	50

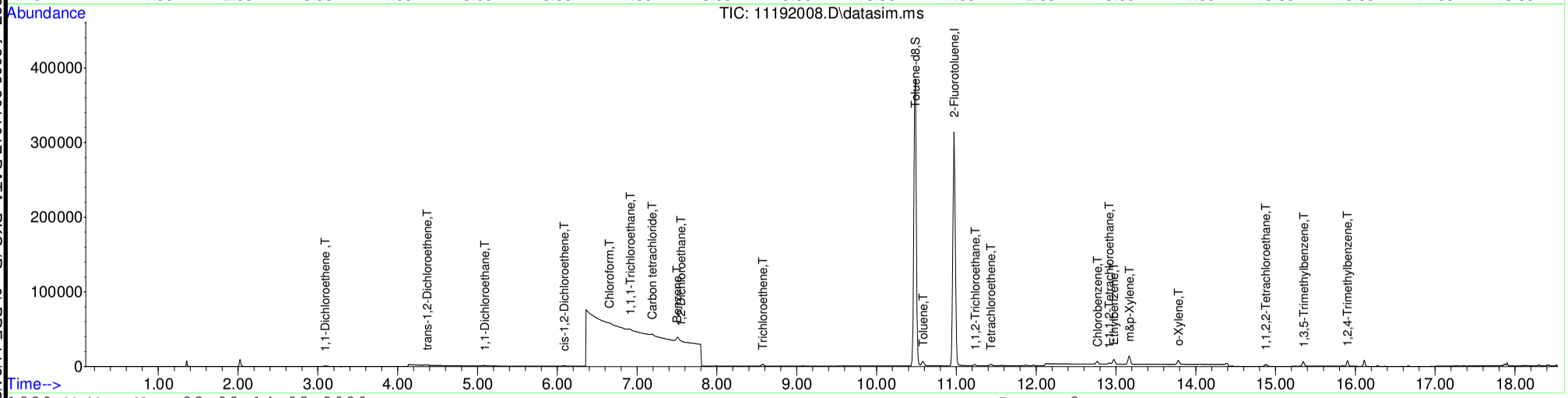
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192008.D
Acq On : 19 Nov 2020 11:08
InstName : AG5975C
Operator : TD
Sample : B20K078-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 23 08:14:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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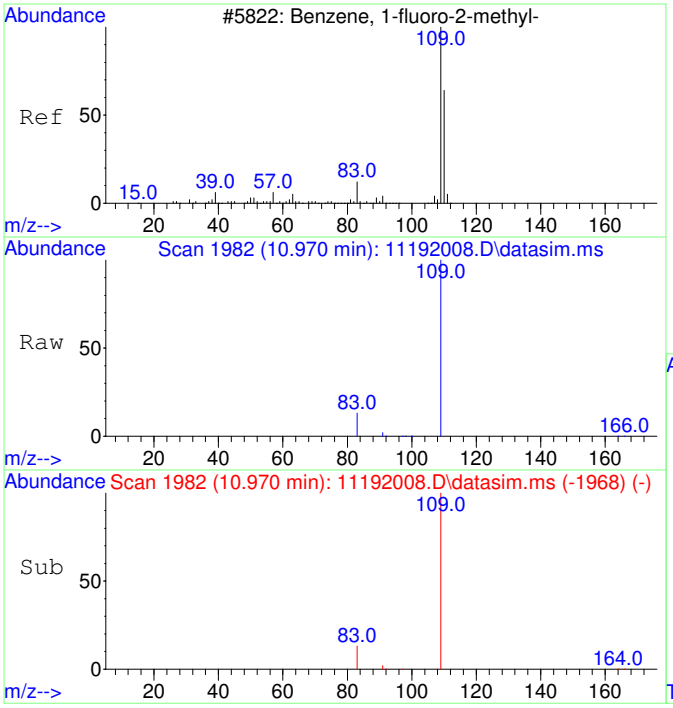
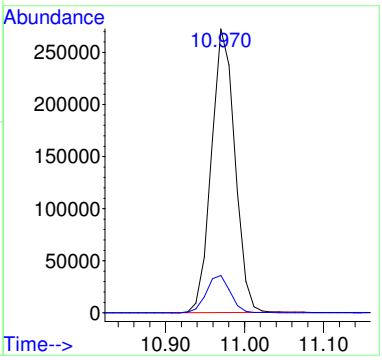
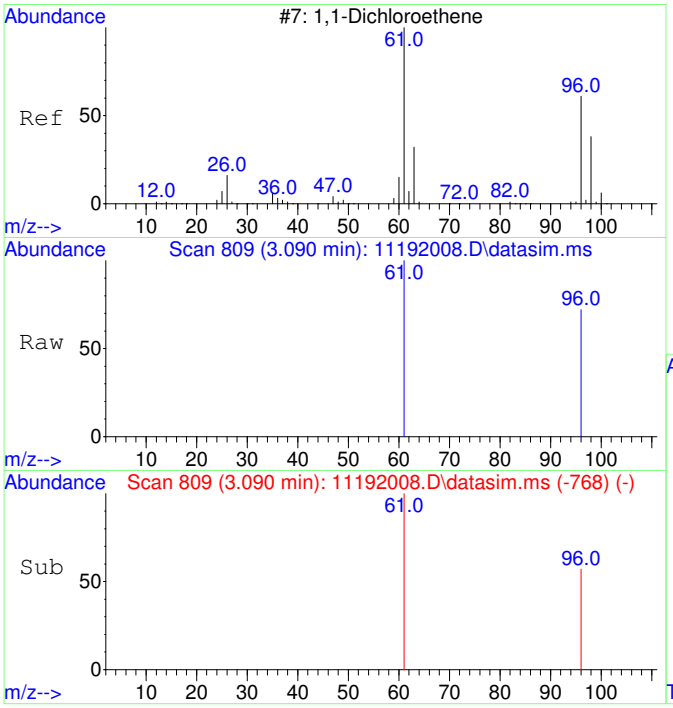


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:109 Resp: 562715

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

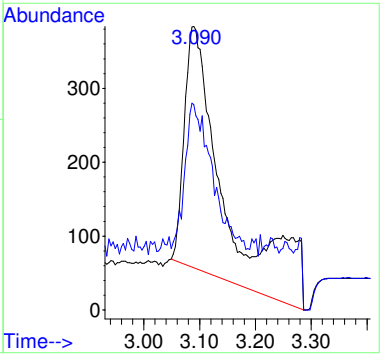




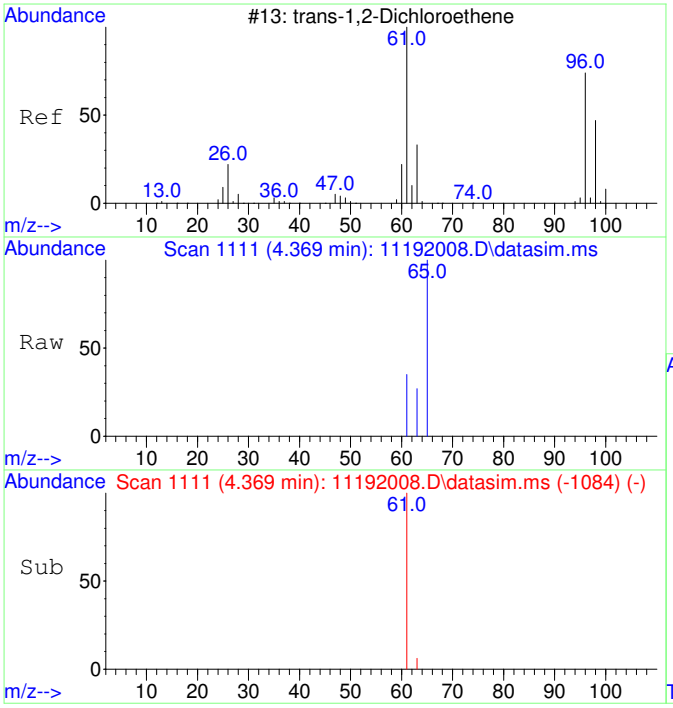
#2
1,1-Dichloroethene
Concen: 72.85 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 1637

Ion	Ratio	Lower	Upper
61	100		
96	51.1	37.2	97.2



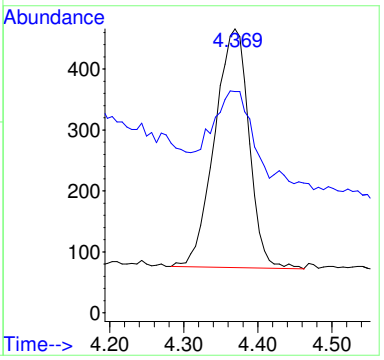
Before MI:
IMPROPER
BASELINE

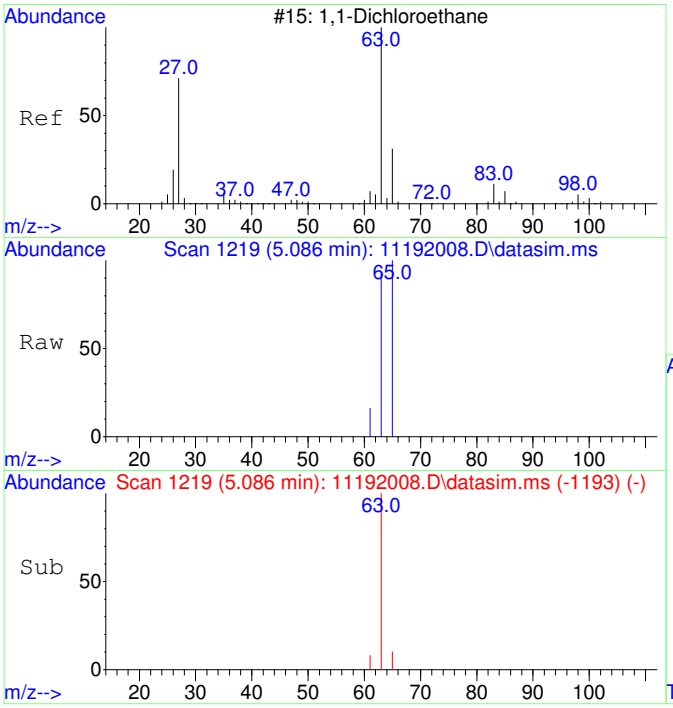


#3
trans-1,2-Dichloroethene
Concen: 48.84 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. 0.026 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 1268

Ion	Ratio	Lower	Upper
61	100		
63	39.3	2.4	62.4

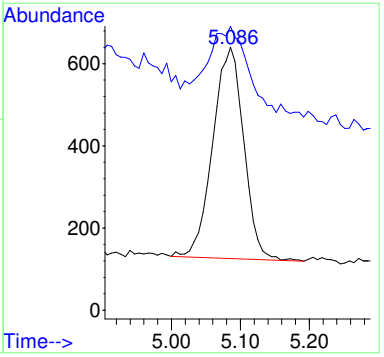


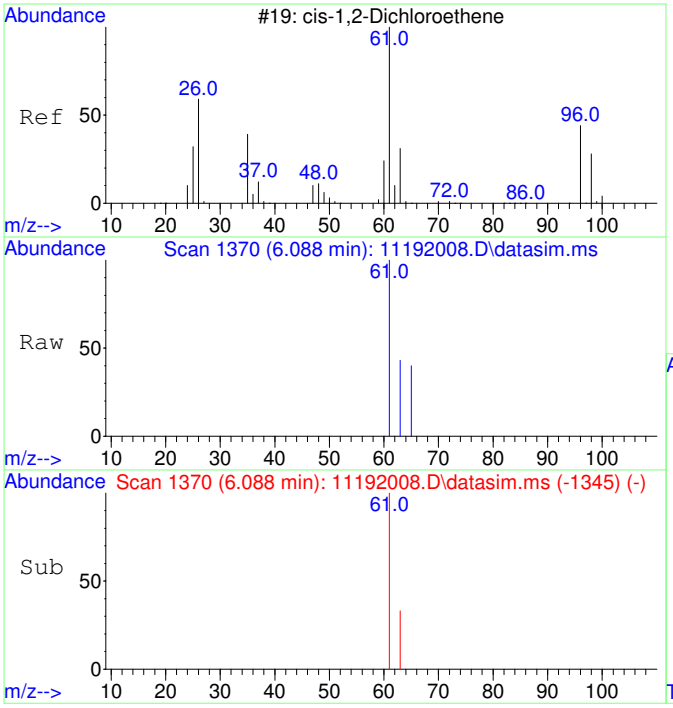


#4
1,1-Dichloroethane
Concen: 49.60 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 63 Resp: 1603

Ion	Ratio	Lower	Upper
63	100		
65	55.8	1.8	61.8

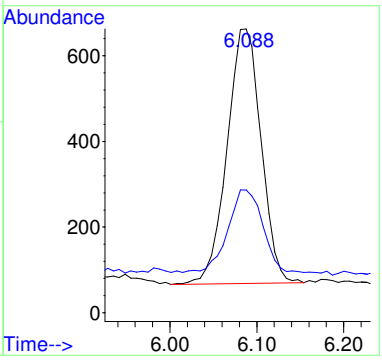


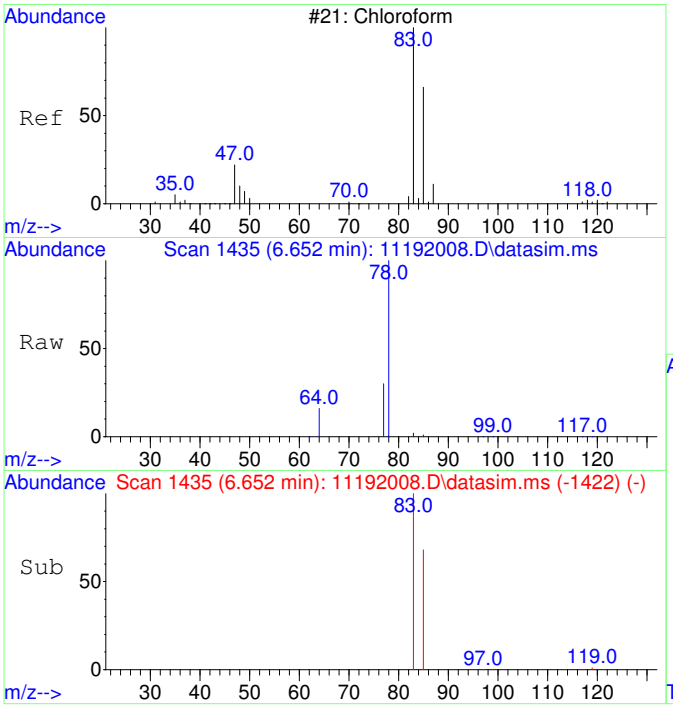


#5
cis-1,2-Dichloroethene
Concen: 47.49 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 1620

Ion	Ratio	Lower	Upper
61	100		
63	37.2	2.5	62.5

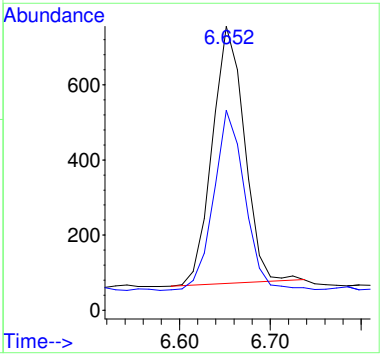


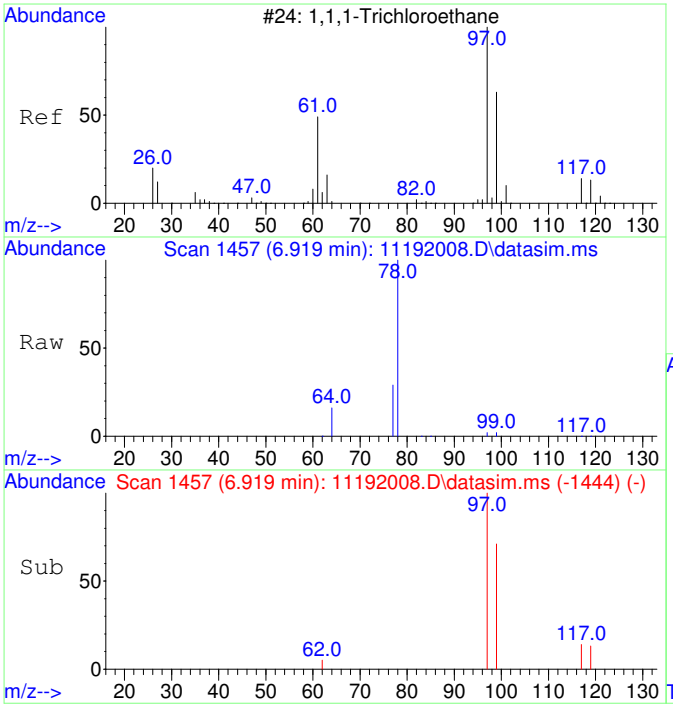


#6
Chloroform
Concen: 48.26 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 1685

Ion	Ratio	Lower	Upper
83	100		
85	67.7	35.1	95.1

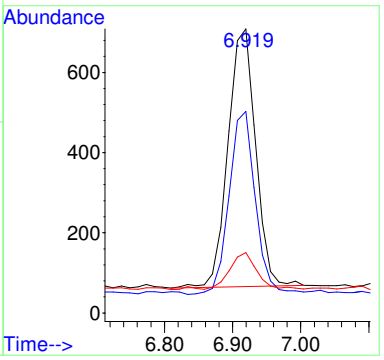


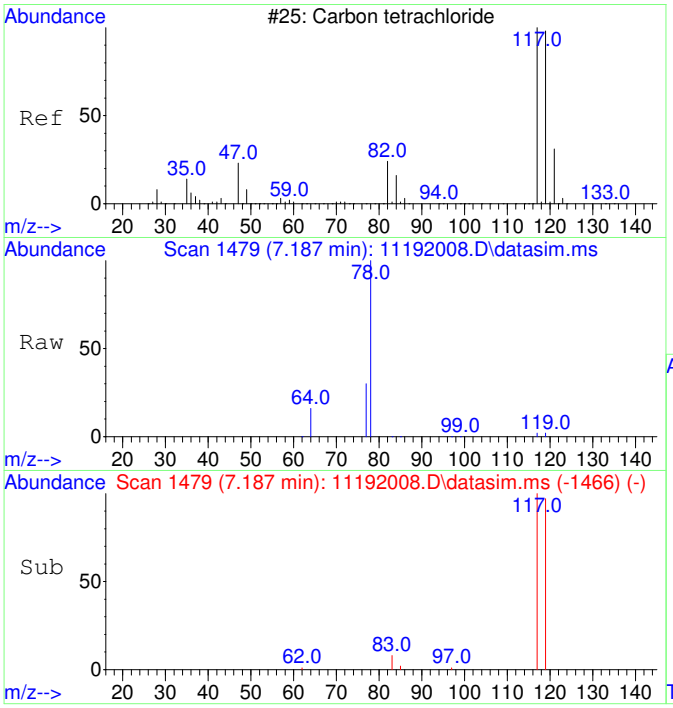


#7
1,1,1-Trichloroethane
Concen: 47.63 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 97 Resp: 1806

Ion	Ratio	Lower	Upper
97	100		
99	67.8	34.6	94.6
117	13.9	0.0	43.2

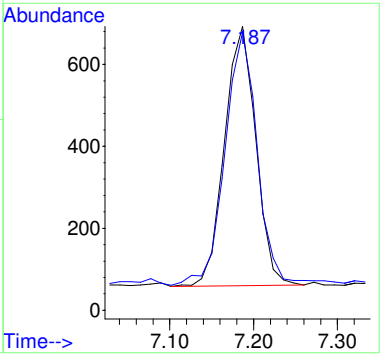


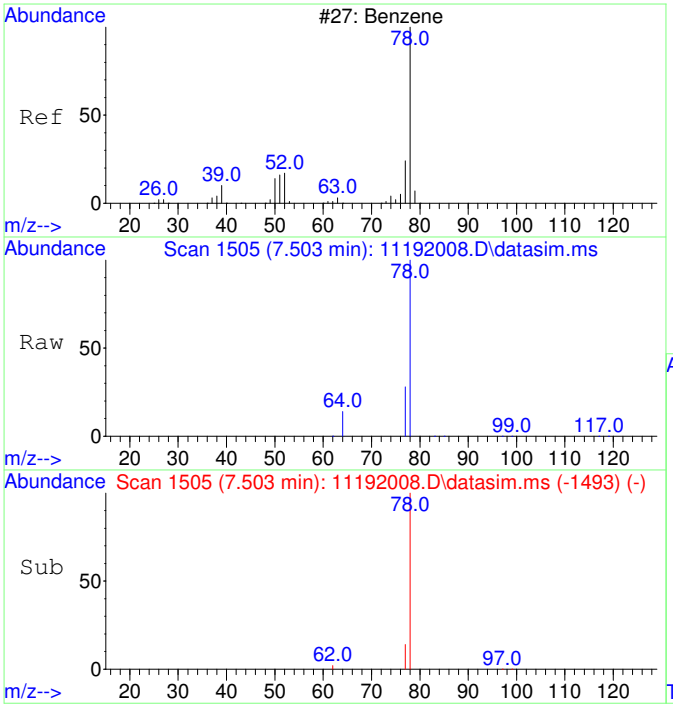


#8
Carbon tetrachloride
Concen: 45.87 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:117 Resp: 1637

Ion	Ratio	Lower	Upper
117	100		
119	100.7	66.4	126.4

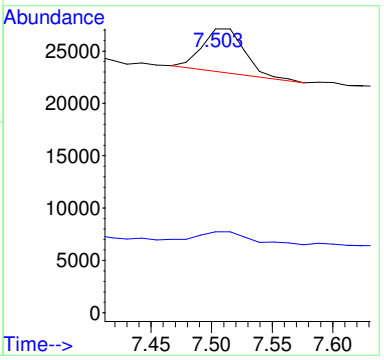


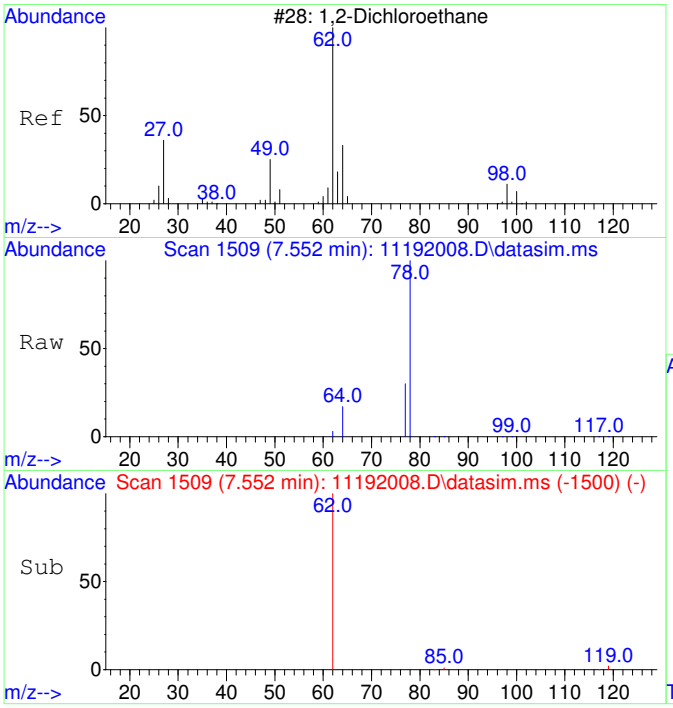


#9
Benzene
Concen: 100.19 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 78 Resp: 9579

Ion	Ratio	Lower	Upper
78	100		
77	41.1	0.0	53.2

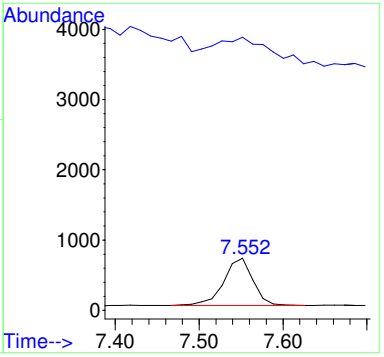


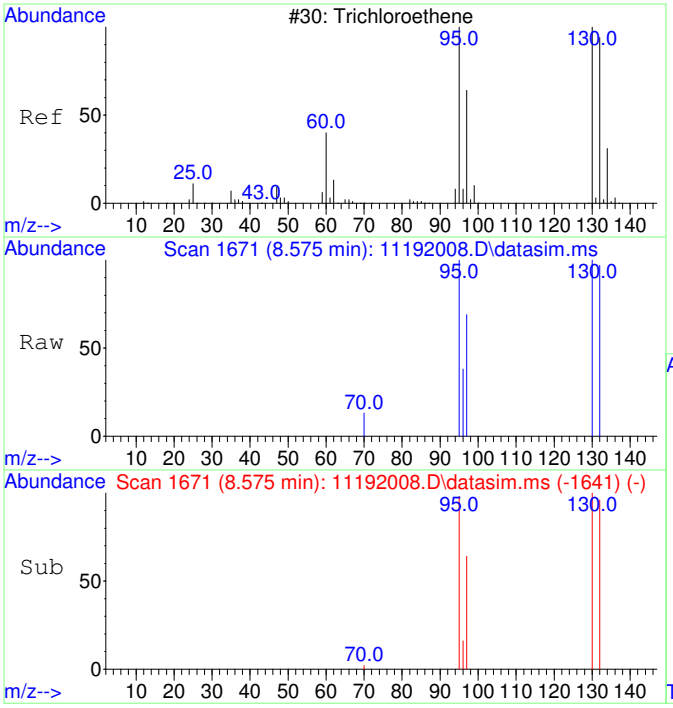


#10
1,2-Dichloroethane
Concen: 47.58 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 62 Resp: 1624

Ion	Ratio	Lower	Upper
62	100		
64	99.0	2.3	62.3#

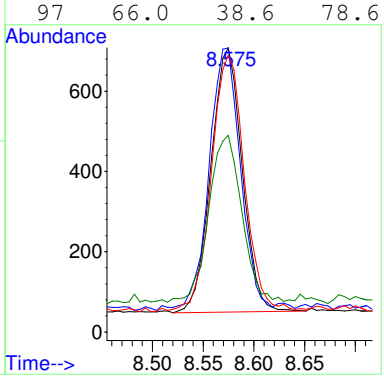


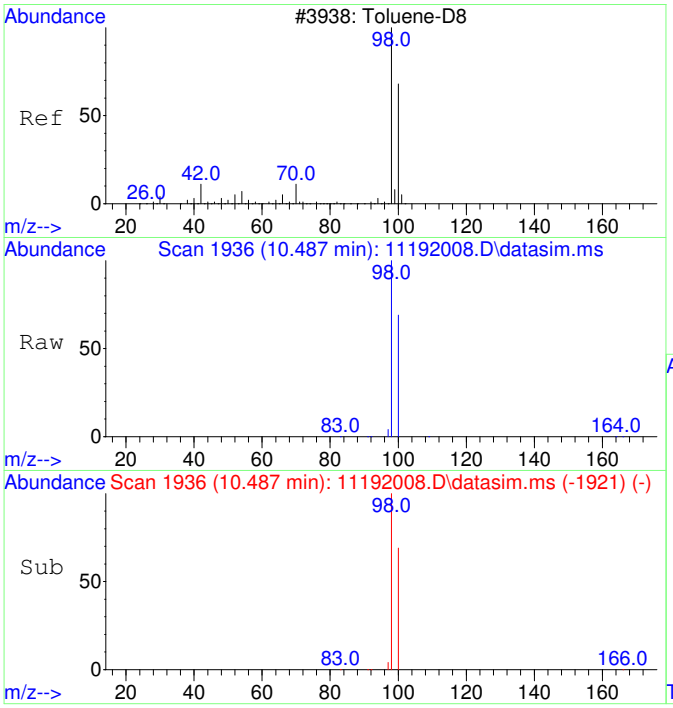


#11
Trichloroethene
Concen: 49.09 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:130 Resp: 1413

Ion	Ratio	Lower	Upper
130	100		
95	100.0	60.7	120.7
132	101.0	76.0	116.0
97	66.0	38.6	78.6

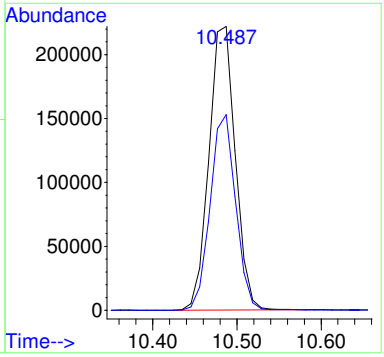


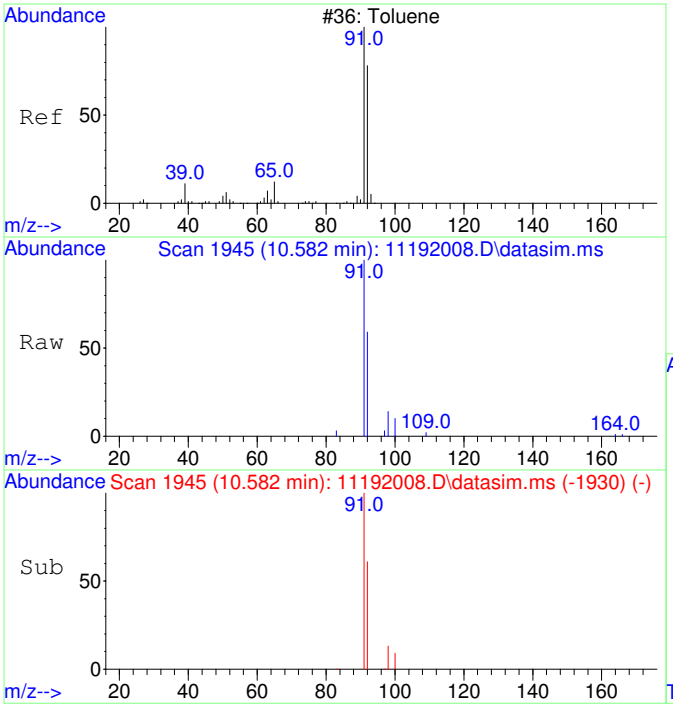


#12
Toluene-d8
Concen: 4383.60 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 98 Resp: 482886

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

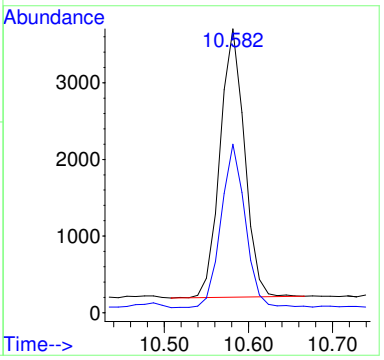


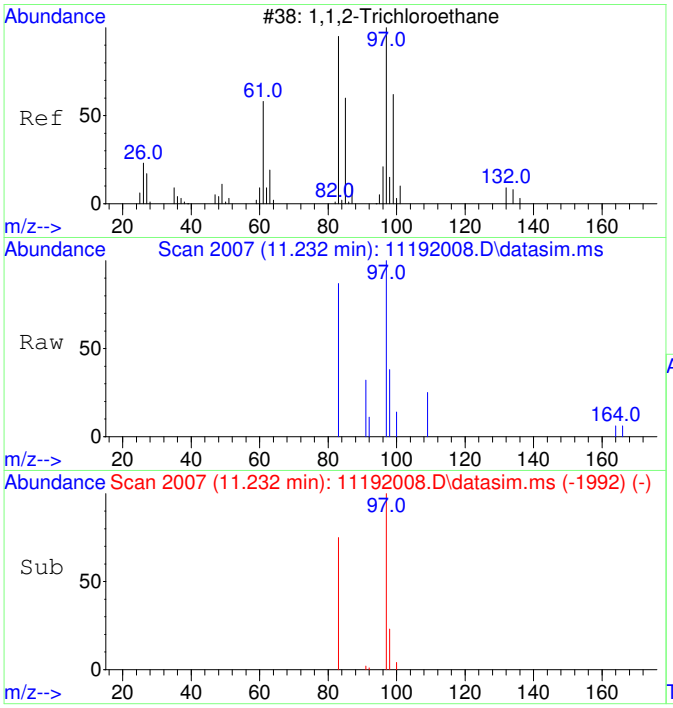


#13
Toluene
Concen: 50.36 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 7073

Ion	Ratio	Lower	Upper
91	100		
92	59.7	29.9	89.9

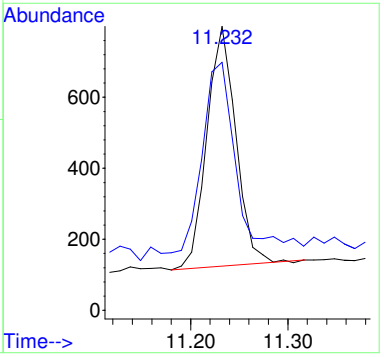


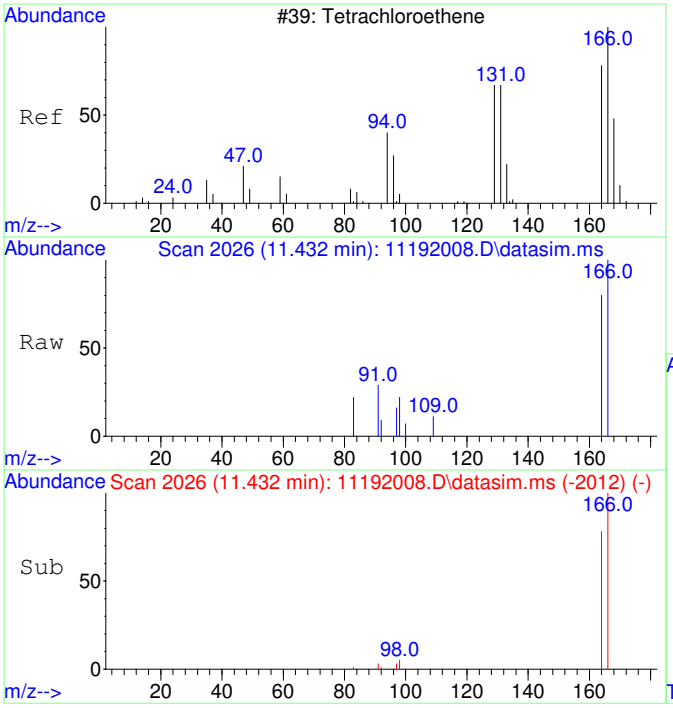


#14
1,1,2-Trichloroethane
Concen: 45.55 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 97 Resp: 1394

Ion	Ratio	Lower	Upper
97	100		
83	109.0	51.2	111.2

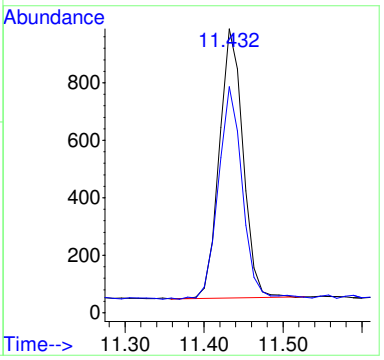


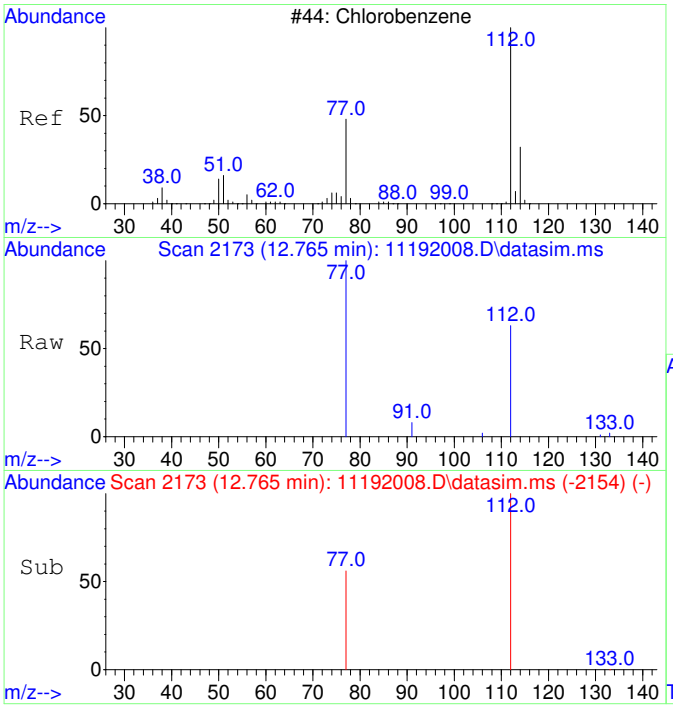


#15
Tetrachloroethene
Concen: 47.88 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:166 Resp: 1946

Ion	Ratio	Lower	Upper
166	100		
164	79.4	47.8	107.8

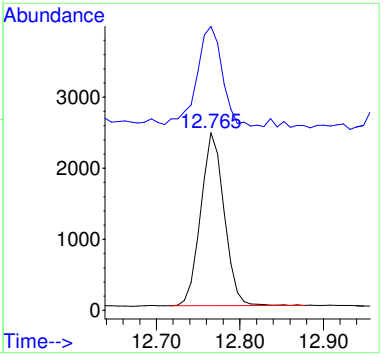


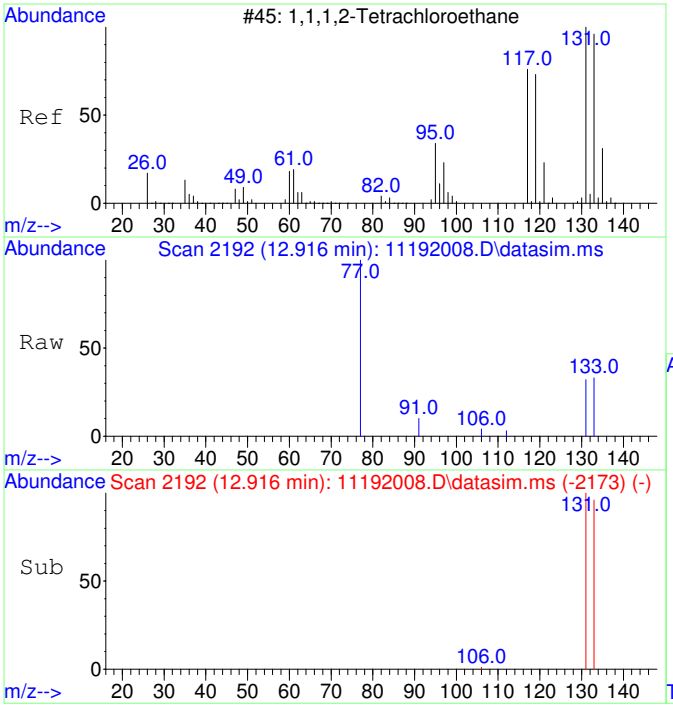


#16
Chlorobenzene
Concen: 47.26 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:112 Resp: 4753

Ion	Ratio	Lower	Upper
112	100		
77	62.8	23.6	83.6

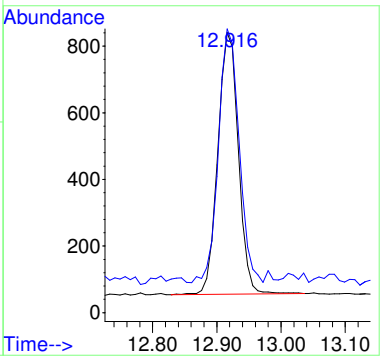


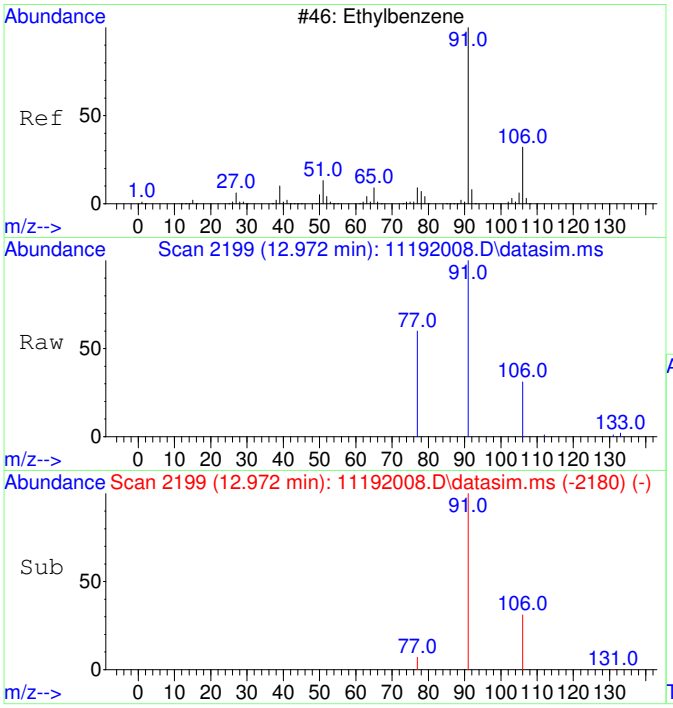


#17
1,1,1,2-Tetrachloroethane
Concen: 48.09 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:131 Resp: 1733

Ion	Ratio	Lower	Upper
131	100		
133	97.6	66.3	126.3

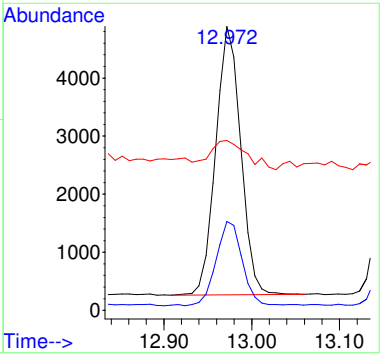


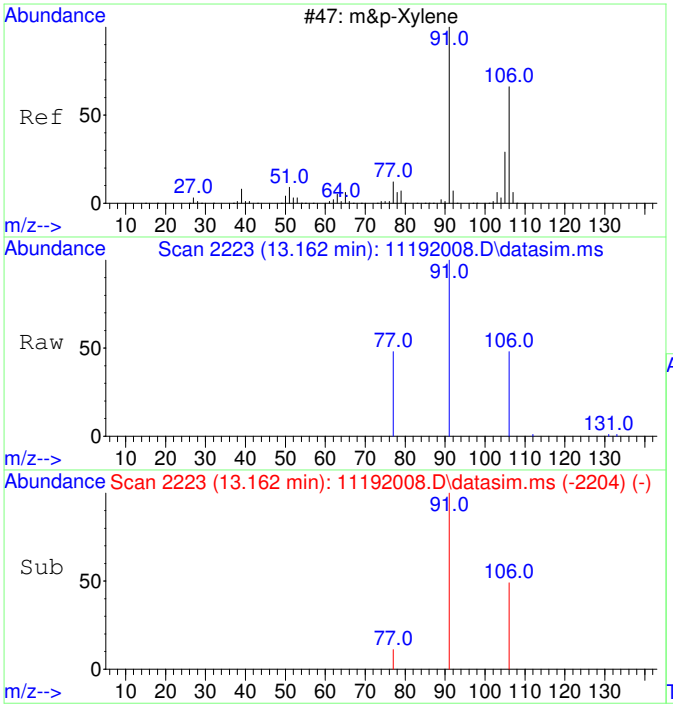


#18
Ethylbenzene
Concen: 53.54 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 9152

Ion	Ratio	Lower	Upper
91	100		
106	32.7	3.0	63.0
77	15.9	0.0	38.2

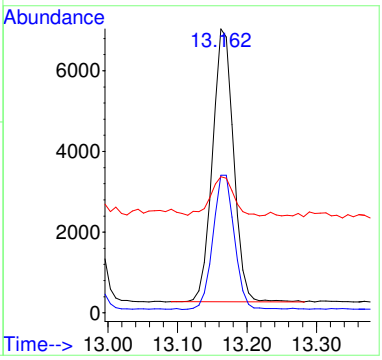


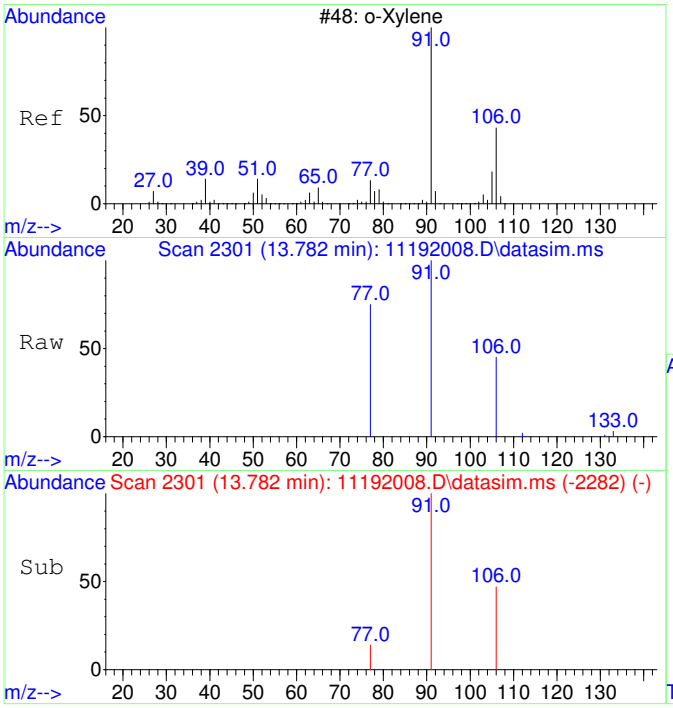


#19
m&p-Xylene
Concen: 106.70 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 14256

Ion	Ratio	Lower	Upper
91	100		
106	49.5	22.2	82.2
77	15.6	0.0	42.4

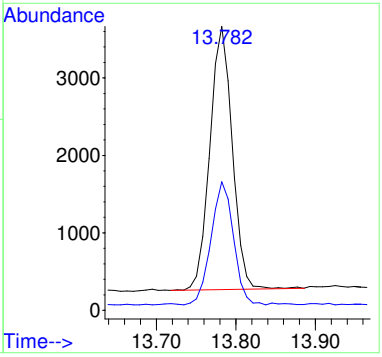


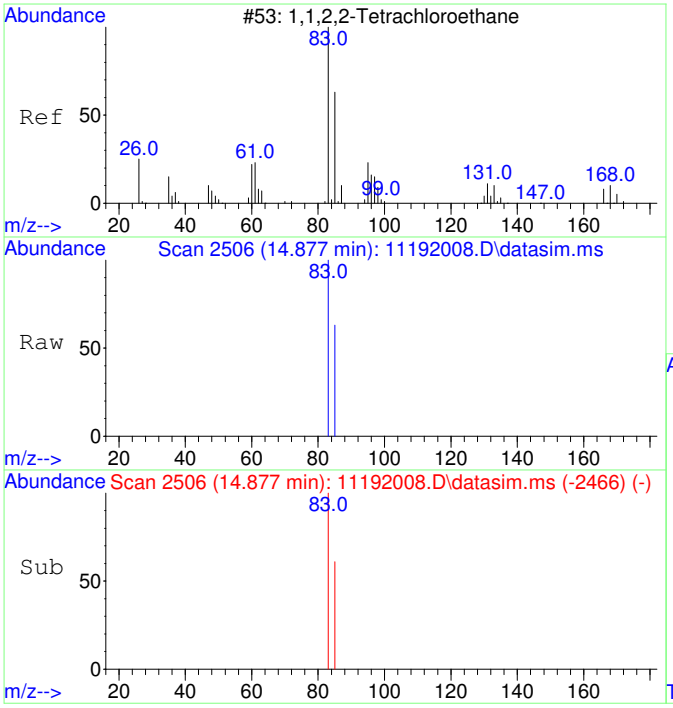


#20
o-Xylene
Concen: 46.67 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 6661

Ion	Ratio	Lower	Upper
91	100		
106	46.6	19.2	79.2

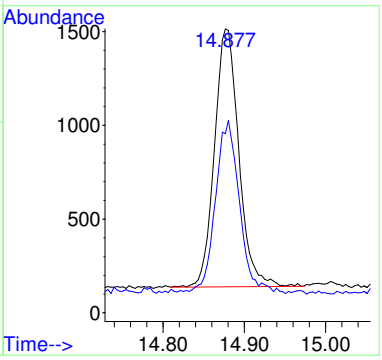


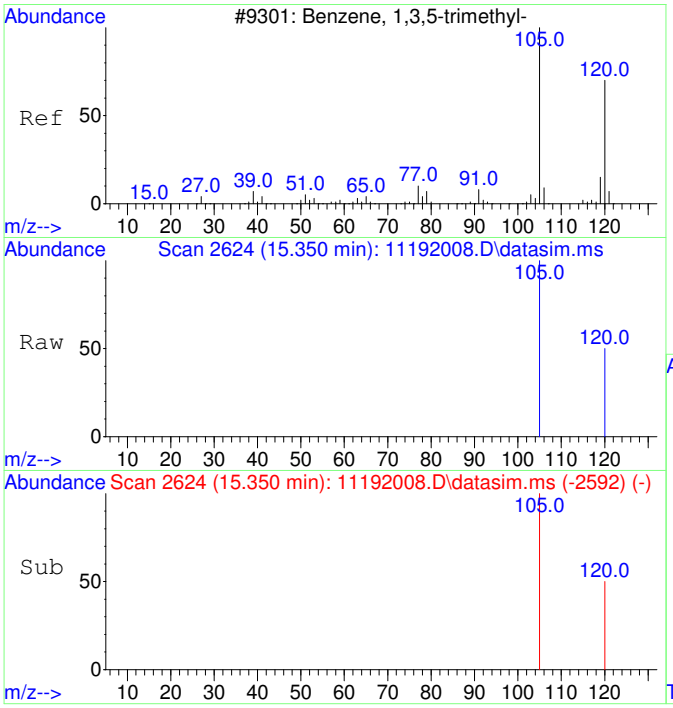


#21
1,1,2,2-Tetrachloroethane
Concen: 45.37 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 2870

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.8	94.8

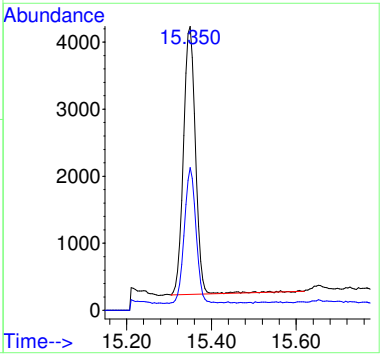


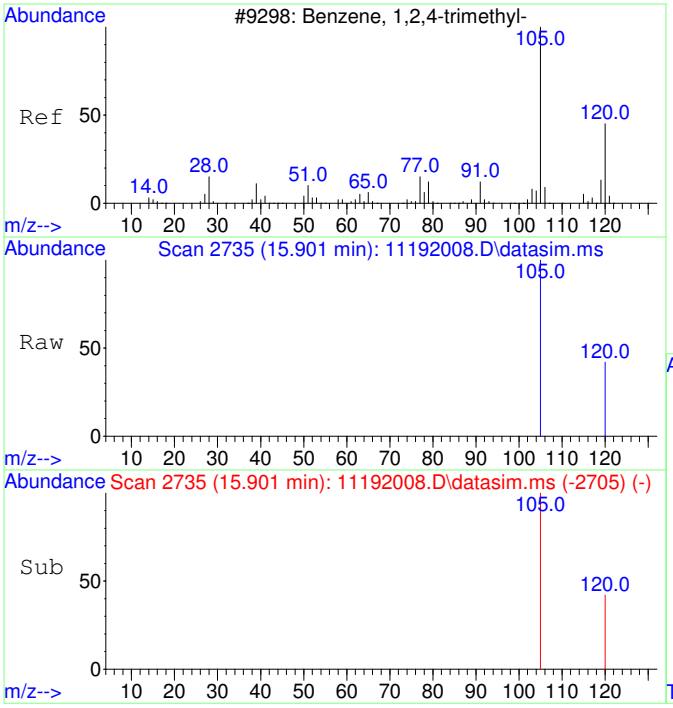


#22
1,3,5-Trimethylbenzene
Concen: 51.77 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:105 Resp: 7866

Ion	Ratio	Lower	Upper
105	100		
120	48.3	21.1	81.1

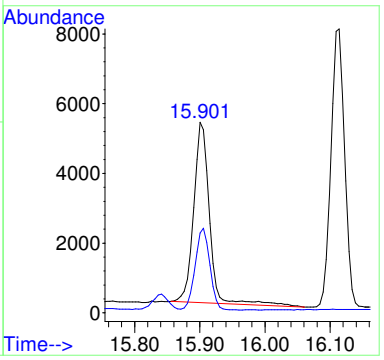


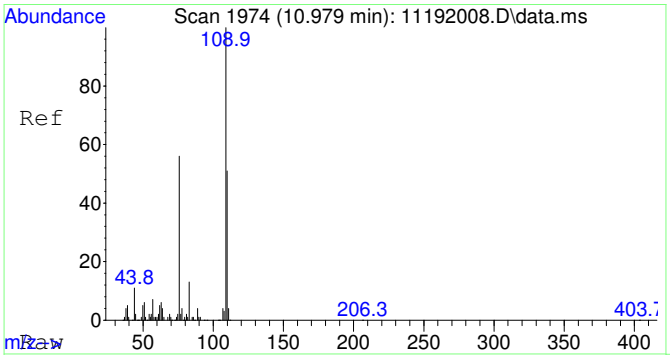


#23
1,2,4-Trimethylbenzene
Concen: 54.94 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:105 Resp: 8670

Ion	Ratio	Lower	Upper
105	100		
120	41.4	17.2	77.2

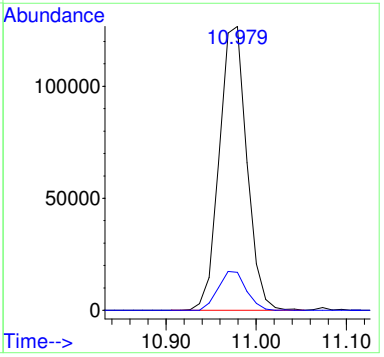


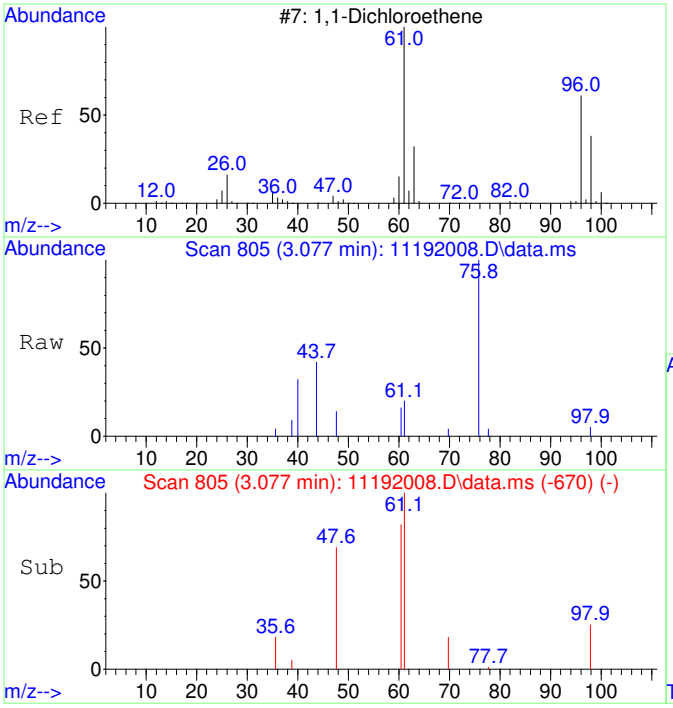


#25
2-Fluorotoluene SCAN
Concen: 4908.40 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:109 Resp: 269247

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	43.8

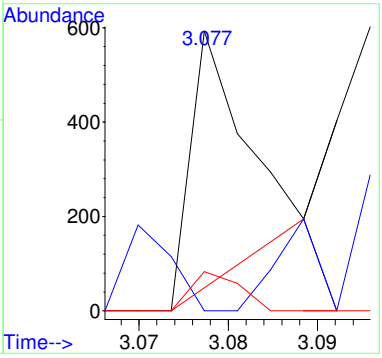


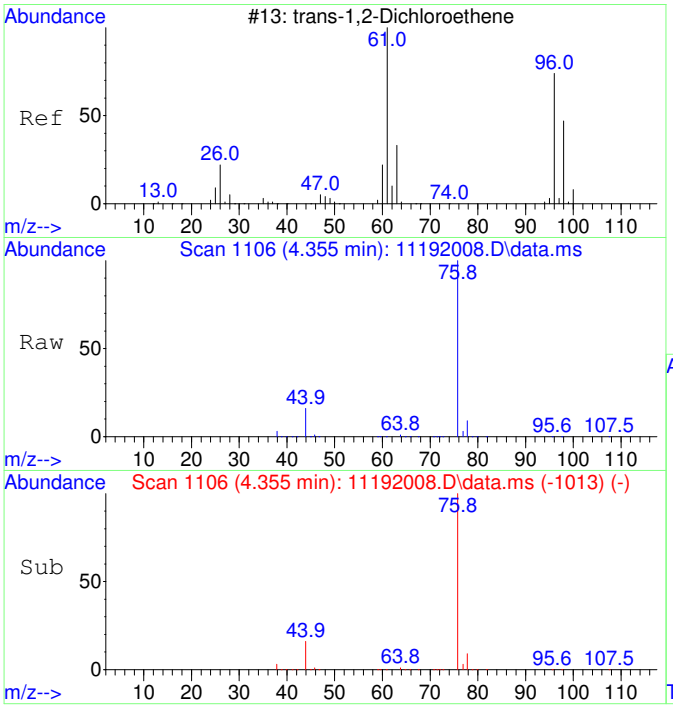


#26
1,1-Dichloroethene SCAN
Concen: 20.43 ug/L
RT: 3.077 min Scan# 805
Delta R.T. 0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 238

Ion	Ratio	Lower	Upper
61	100		
96	27.7	33.1	93.1#
98	0.0	11.2	71.2#

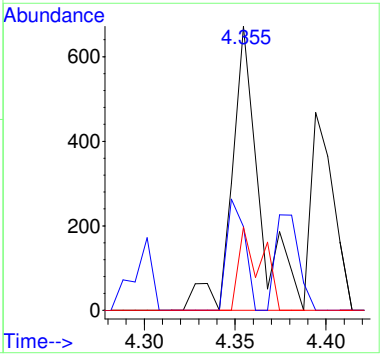


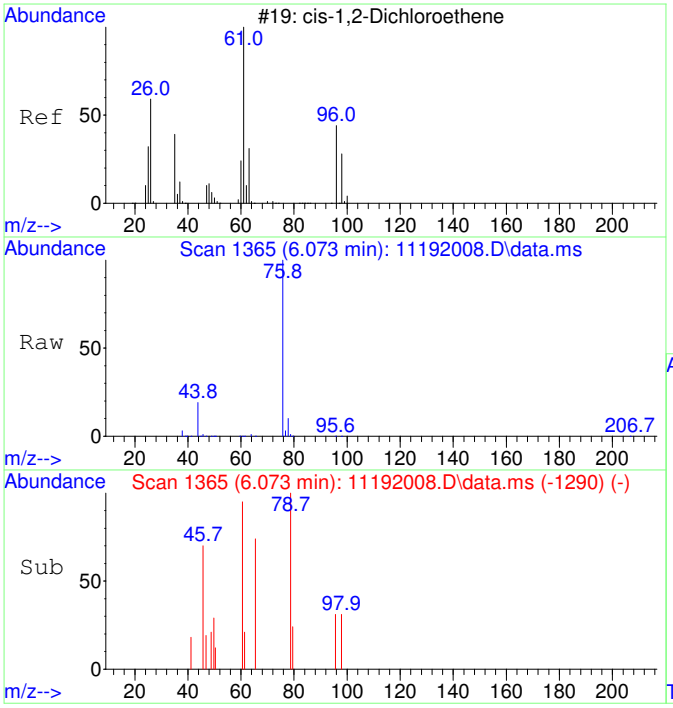


#27
trans-1,2-Dichloroethene SCAN
Concen: 49.46 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. 0.007 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 713

Ion	Ratio	Lower	Upper
61	100		
96	25.8	49.0	109.0#
98	24.4	20.5	80.5

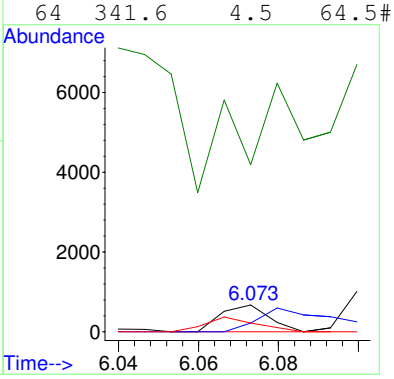


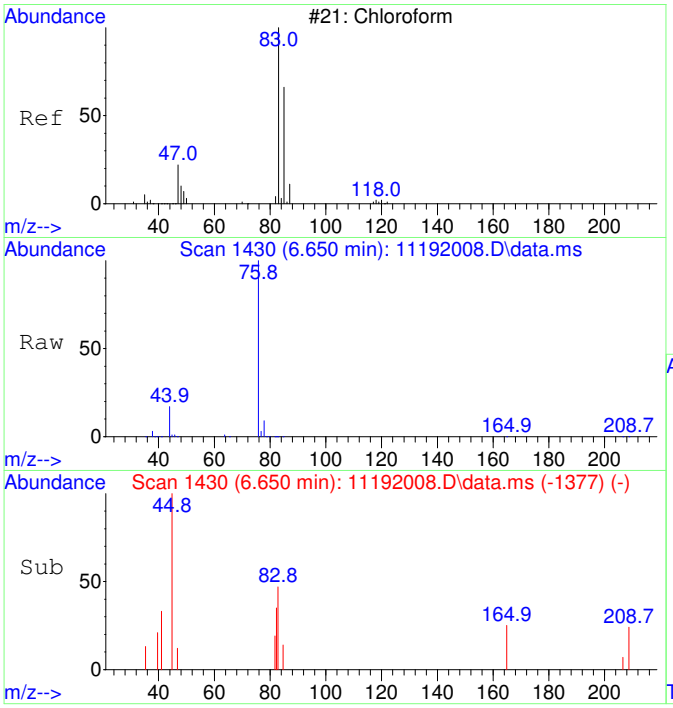


#29
cis-1,2-Dichloroethene SCAN
Concen: 31.50 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 563

Ion	Ratio	Lower	Upper
61	100		
96	140.5	39.9	99.9#
98	58.8	13.5	73.5
64	341.6	4.5	64.5#

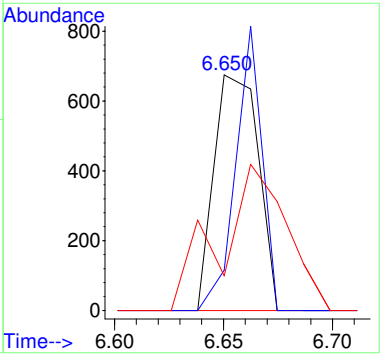


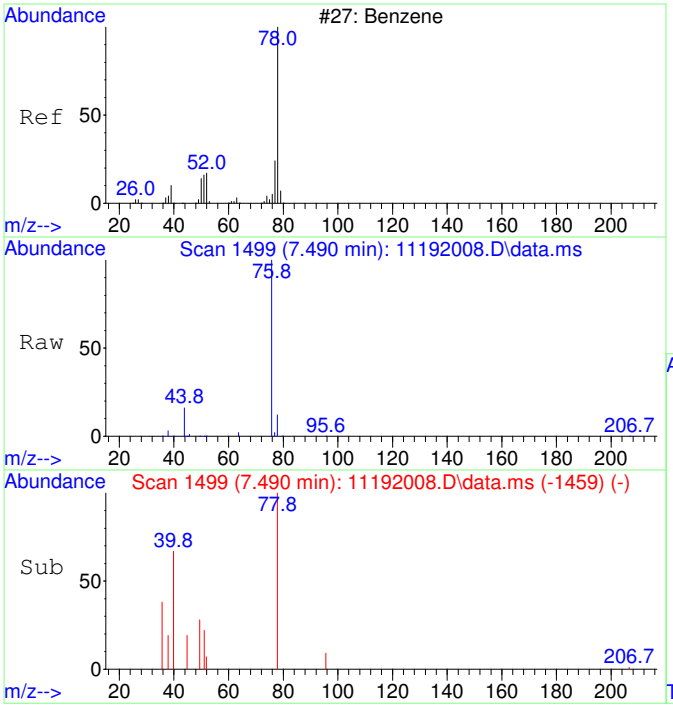


#30
Chloroform SCAN
Concen: 49.26 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 955

Ion	Ratio	Lower	Upper
83	100		
85	71.0	34.6	94.6
47	93.4	0.0	53.4#

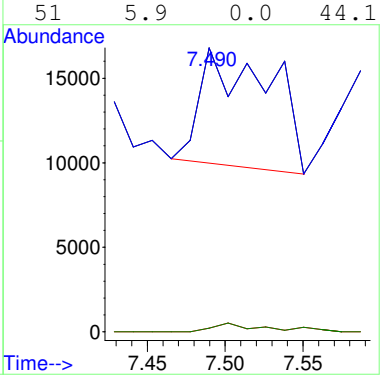


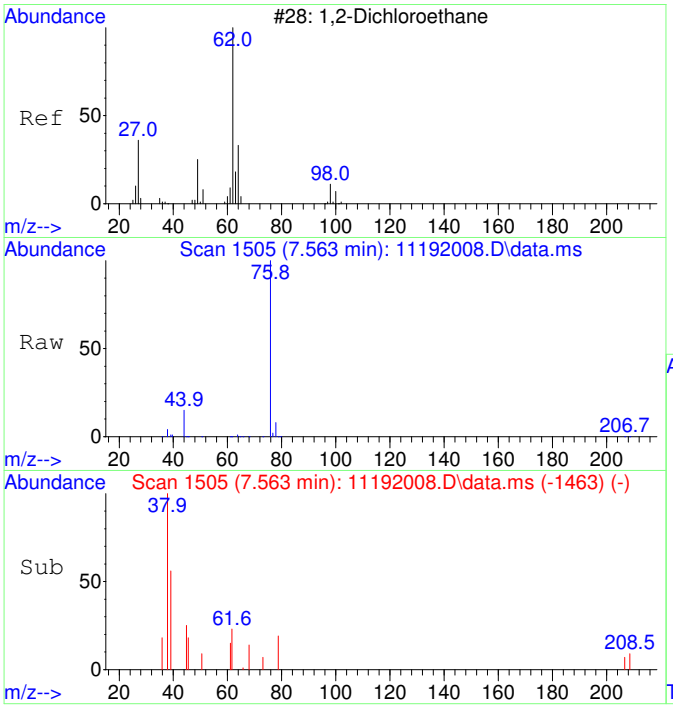


#33
Benzene SCAN
Concen: 432.96 ug/L
RT: 7.490 min Scan# 1499
Delta R.T. -0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 78 Resp: 21061

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	5.9	0.0	47.9
51	5.9	0.0	44.1

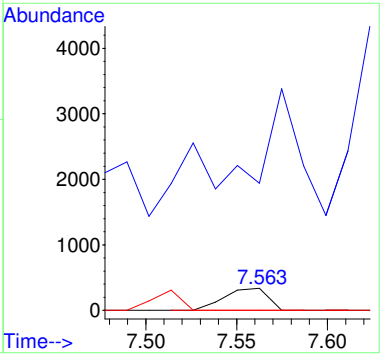


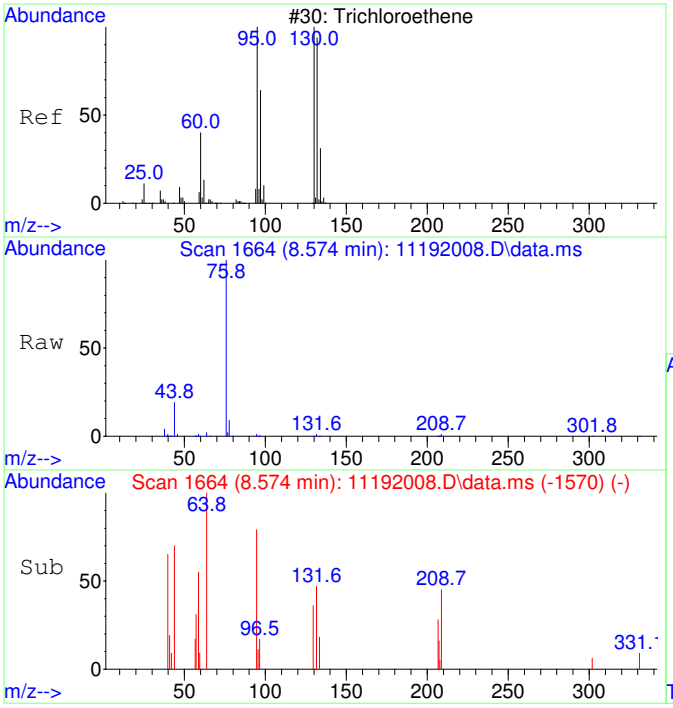


#34
1,2-Dichloroethane SCAN
Concen: 31.29 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 62 Resp: 562

Ion	Ratio	Lower	Upper
62	100		
64	253.7	5.2	65.2#
49	0.0	3.9	63.9#

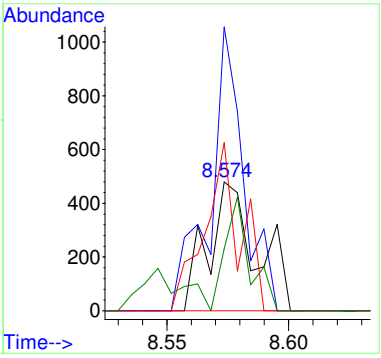


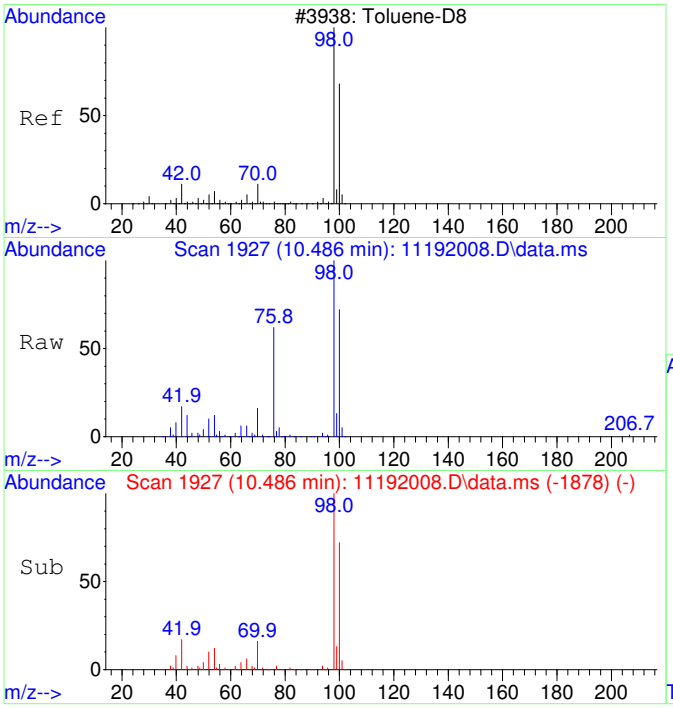


#35
Trichloroethene SCAN
Concen: 49.00 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:130 Resp: 655

Ion	Ratio	Lower	Upper
130	100		
95	154.4	60.5	120.5#
132	96.3	59.6	119.6
97	45.5	28.2	88.2

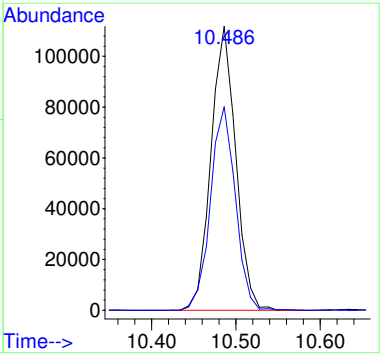


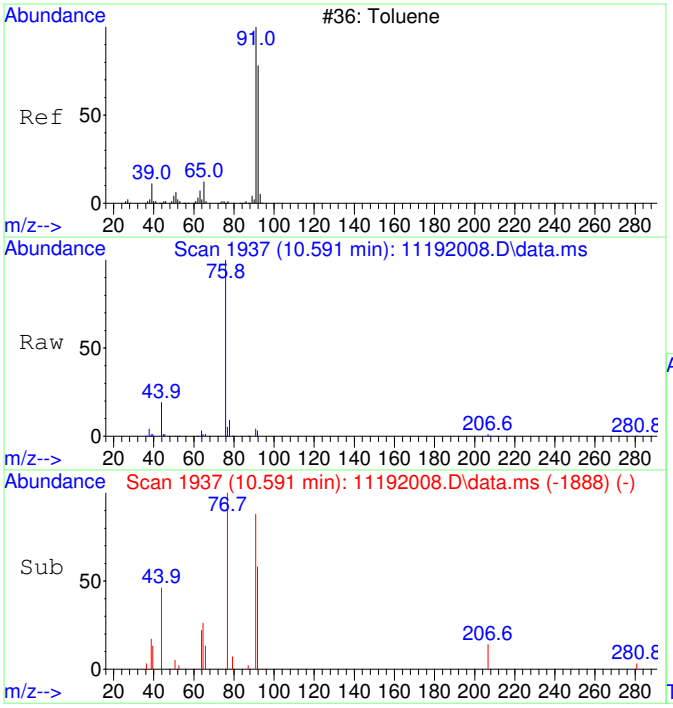


#36
Toluene-d8 SCAN
Concen: 4277.29 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 98 Resp: 229459

Ion	Ratio	Lower	Upper
98	100		
100	71.8	40.0	100.0

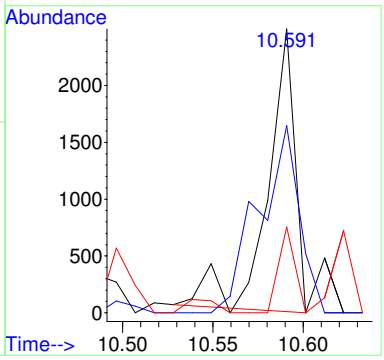


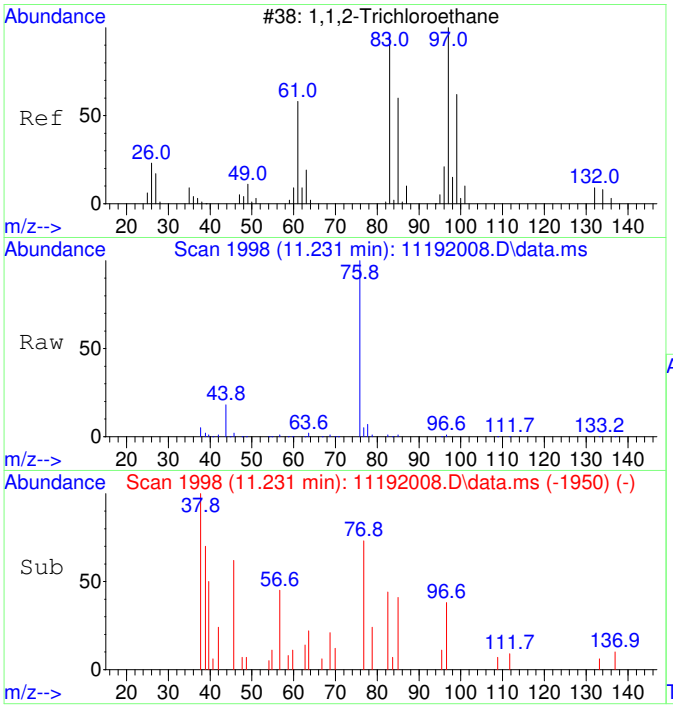


#37
Toluene SCAN
Concen: 37.23 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 2558

Ion	Ratio	Lower	Upper
91	100		
92	101.1	28.3	88.3#
65	18.6	0.0	41.0

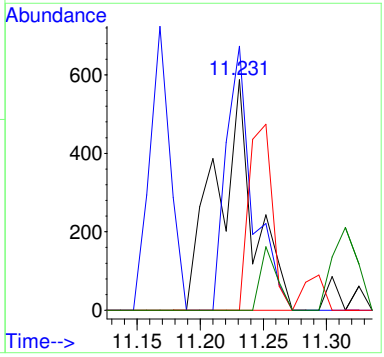


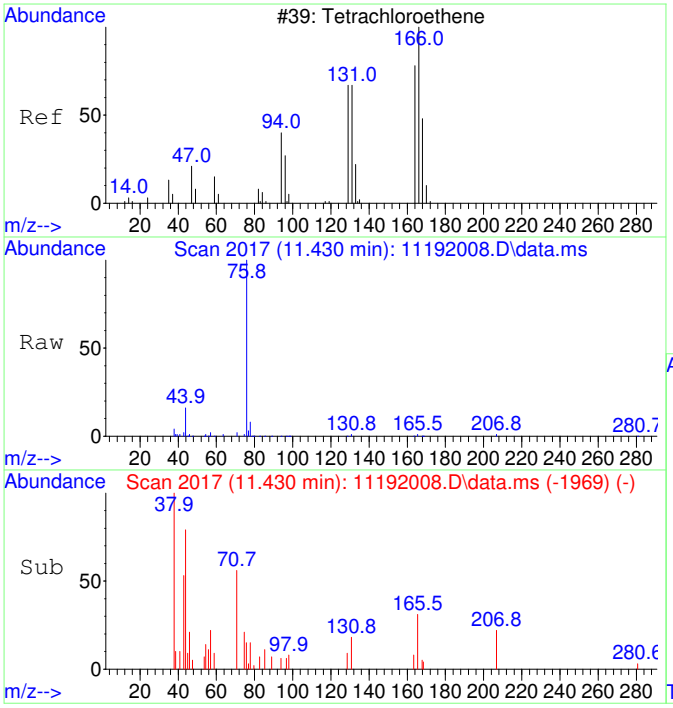


#38
1,1,2-Trichloroethane SCAN
Concen: 78.34 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 97 Resp: 1208

Ion	Ratio	Lower	Upper
97	100		
83	82.4	57.7	117.7
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

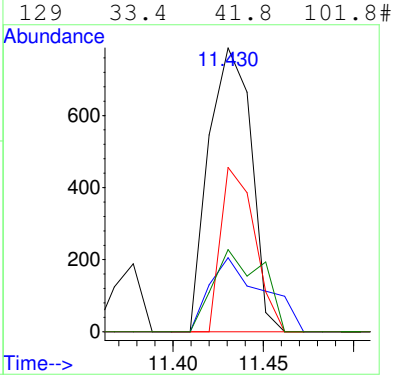


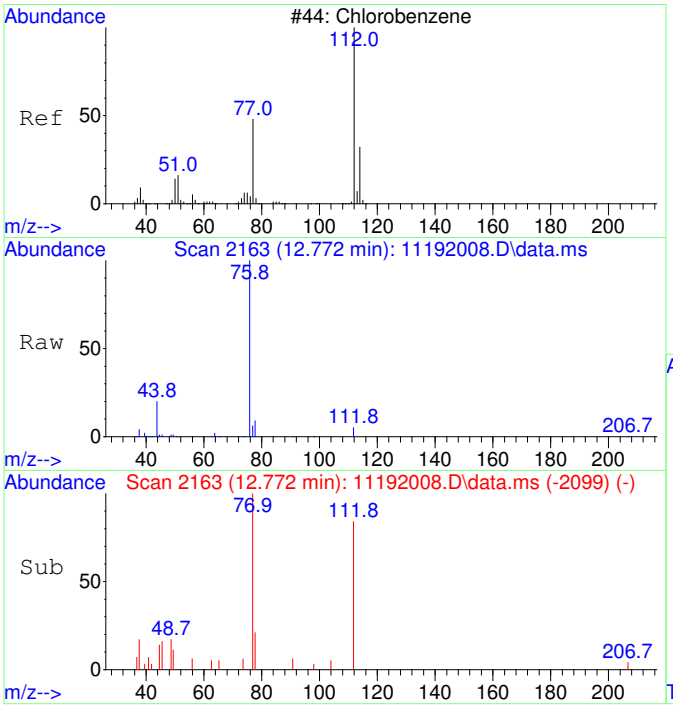


#39
Tetrachloroethene SCAN
Concen: 78.28 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:166 Resp: 1292

Ion	Ratio	Lower	Upper
166	100		
164	32.8	50.9	110.9#
131	46.4	38.7	98.7
129	33.4	41.8	101.8#

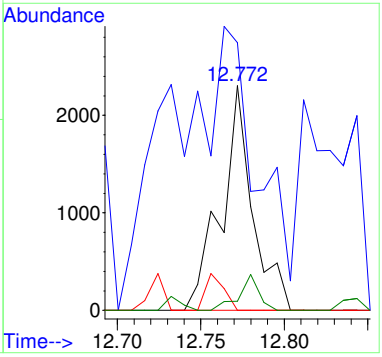


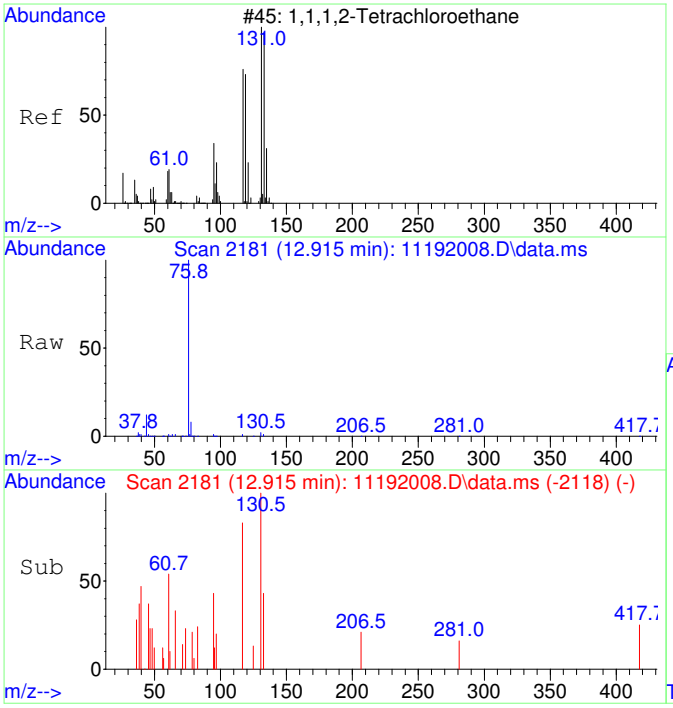


#40
Chlorobenzene SCAN
Concen: 64.20 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:112 Resp: 3014

Ion	Ratio	Lower	Upper
112	100		
77	66.7	28.2	88.2
114	0.0	2.3	62.3#
51	10.1	0.0	50.1

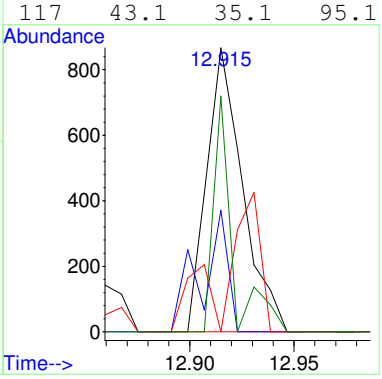


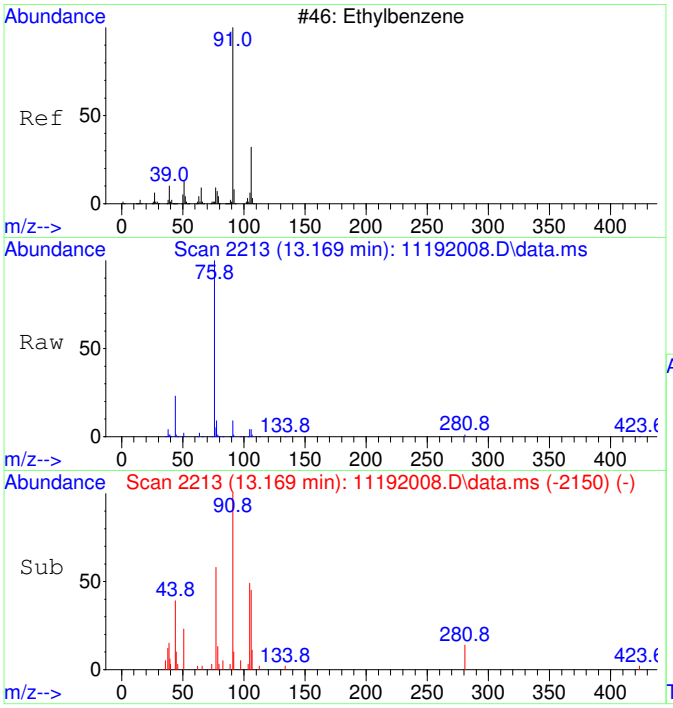


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 59.80 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:131 Resp: 1039

Ion	Ratio	Lower	Upper
131	100		
133	31.6	66.9	126.9#
119	50.7	40.4	100.4
117	43.1	35.1	95.1

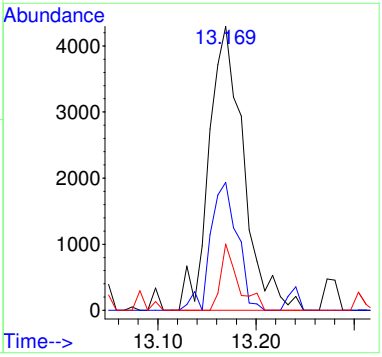


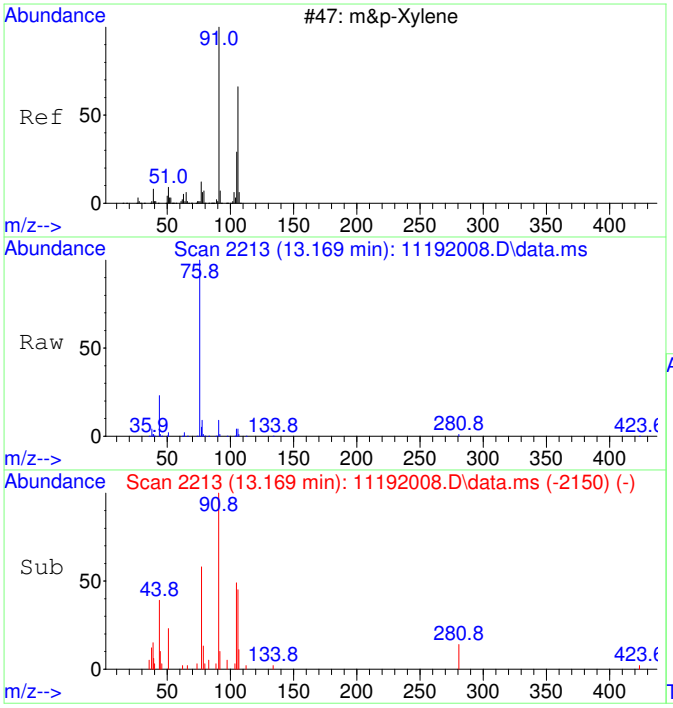


#42
Ethylbenzene SCAN
Concen: 83.74 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 10481

Ion	Ratio	Lower	Upper
91	100		
106	34.9	23.1	83.1
51	11.7	0.0	40.1

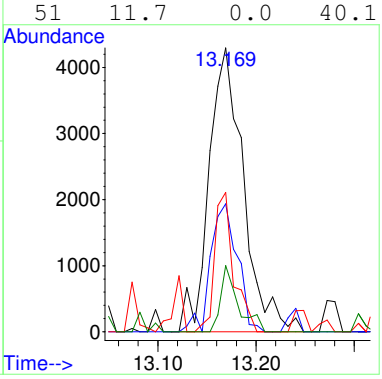


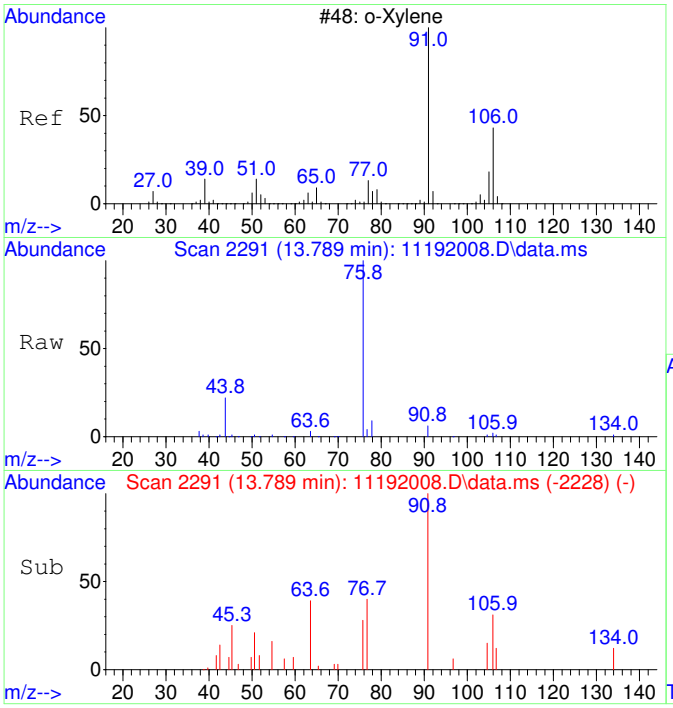


#43
m&p-Xylene SCAN
Concen: 83.74 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 10481

Ion	Ratio	Lower	Upper
91	100		
106	34.9	23.1	83.1
105	27.2	0.0	54.7
51	11.7	0.0	40.1

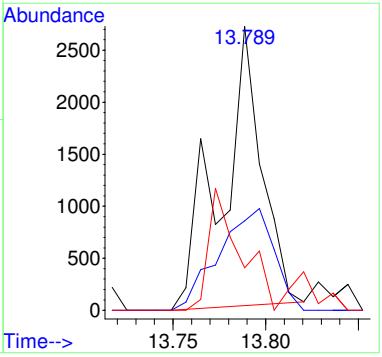


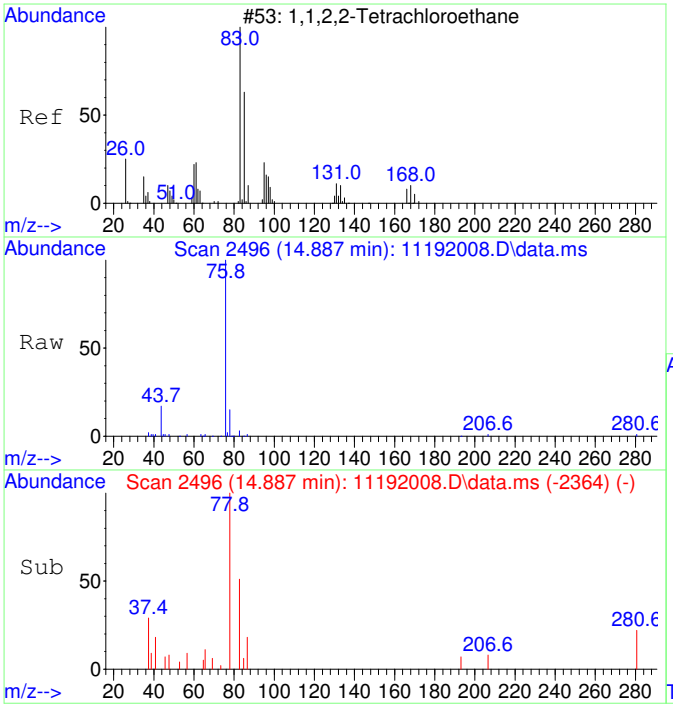


#44
o-Xylene SCAN
Concen: 60.88 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 4079

Ion	Ratio	Lower	Upper
91	100		
106	49.6	18.0	78.0
105	0.0	0.0	56.6

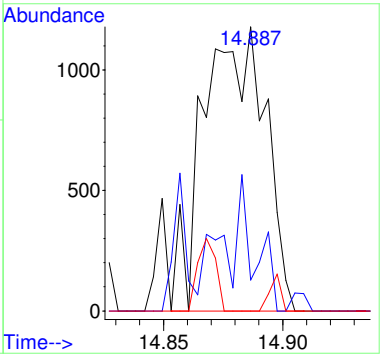


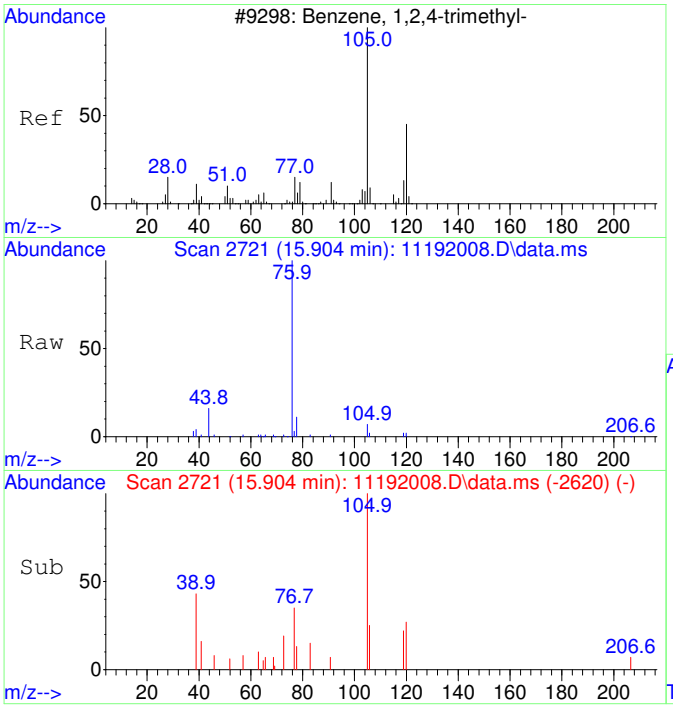


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 65.54 ug/L
RT: 14.887 min Scan# 2496
Delta R.T. 0.015 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 2141

Ion	Ratio	Lower	Upper
83	100		
85	10.2	35.9	95.9#
95	2.3	0.0	47.4

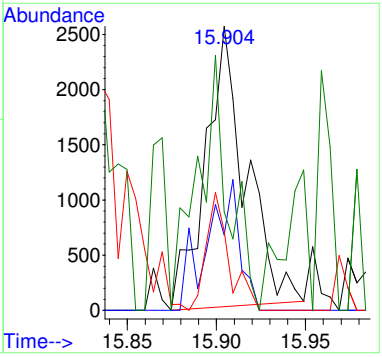


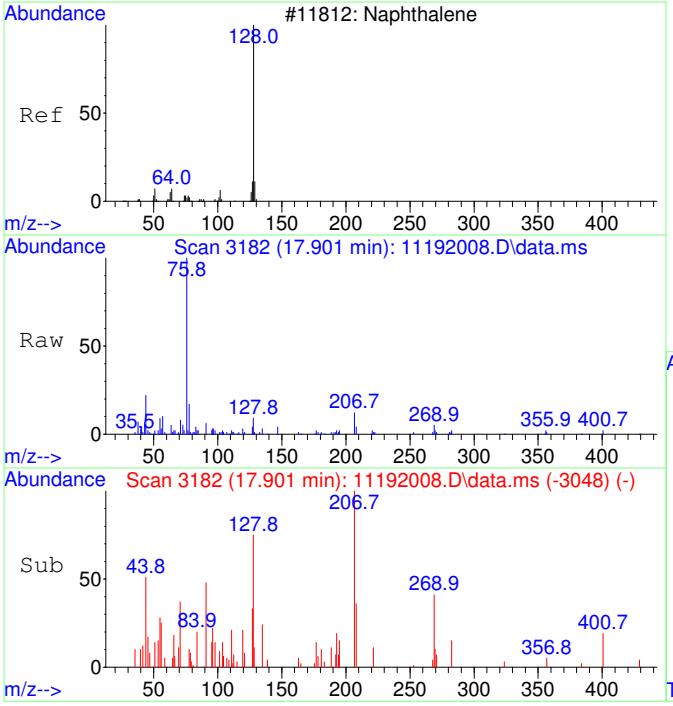


#47
1,2,4-Trimethylbenzene SCAN
Concen: 55.66 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:105 Resp: 4021

Ion	Ratio	Lower	Upper
105	100		
120	36.7	16.9	76.9
119	23.8	0.0	41.9
77	69.8	0.0	42.3#

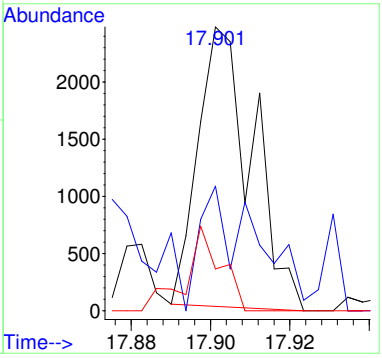




#48
Naphthalene SCAN
Concen: 21.33 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. -0.004 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:128 Resp: 2332

Ion	Ratio	Lower	Upper
128	100		
127	42.9	0.0	44.0
129	19.5	0.0	40.8



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192008.D
Acq On : 19 Nov 2020 11:08
InstName : AG5975C
Operator : TD
Sample : B20K078-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

M.I. Performed By:
TD at 11:23 am, Nov 23, 2020

M.I. Approved By:
ZR at 4:08 pm, Nov 23, 2020

Quant Time: Nov 23 08:14:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

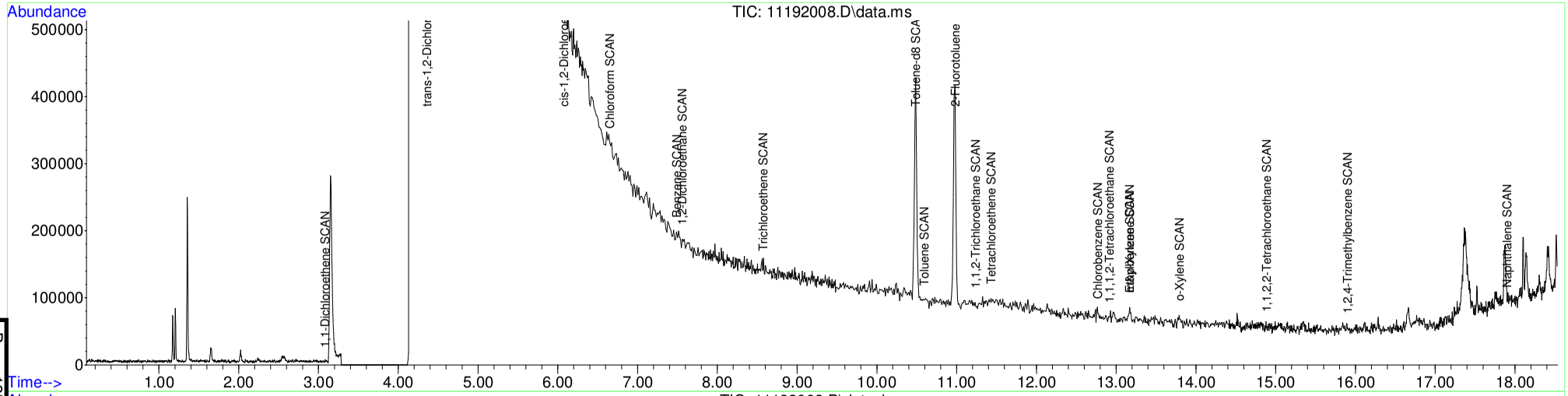
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	562715	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.487	98	482886	4383.60	ug/L		0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.67%				
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.090	61	1103m	49.09	ug/L		
3] trans-1,2-Dichloroethene	4.369	61	1268	48.84	ug/L		88
4] 1,1-Dichloroethane	5.086	63	1603	49.60	ug/L		57
5] cis-1,2-Dichloroethene	6.088	61	1620	47.49	ug/L		92
6] Chloroform	6.652	83	1685	48.26	ug/L		97
7] 1,1,1-Trichloroethane	6.919	97	1806	47.63	ug/L		96
8] Carbon tetrachloride	7.187	117	1637	45.87	ug/L		96
9] Benzene	7.503	78	9579	100.19	ug/L		63
10] 1,2-Dichloroethane	7.552	62	1624	47.58	ug/L	#	1
11] Trichloroethene	8.575	130	1413	49.09	ug/L		92
13] Toluene	10.582	91	7073	50.36	ug/L		100
14] 1,1,2-Trichloroethane	11.232	97	1394	45.55	ug/L		69
15] Tetrachloroethene	11.432	166	1946	47.88	ug/L		98
16] Chlorobenzene	12.765	112	4753	47.26	ug/L		87
17] 1,1,1,2-Tetrachloroethane	12.916	131	1733	48.09	ug/L		99
18] Ethylbenzene	12.972	91	9152	53.54	ug/L		95
19] m&p-Xylene	13.162	91	14256	106.70	ug/L		95
20] o-Xylene	13.782	91	6661	46.67	ug/L		96
21] 1,1,2,2-Tetrachloroethane	14.877	83	2870	45.37	ug/L		99
22] 1,3,5-Trimethylbenzene	15.350	105	7866	51.77	ug/L		96
23] 1,2,4-Trimethylbenzene	15.901	105	8670	54.94	ug/L		91
25) 2-Fluorotoluene SCAN	10.979	109	269247	4908.40	ug/L		100
26) 1,1-Dichloroethene SCAN	3.077	61	238	20.43	ug/L	#	46
27) trans-1,2-Dichloroethe...	4.355	61	713	49.46	ug/L	#	48
29) cis-1,2-Dichloroethene...	6.073	61	563	31.50	ug/L	#	1
30) Chloroform SCAN	6.650	83	955	49.26	ug/L	#	56
33) Benzene SCAN	7.490	78	21061	432.96	ug/L		94
34) 1,2-Dichloroethane SCAN	7.563	62	562	31.29	ug/L	#	1
35) Trichloroethene SCAN	8.574	130	655	49.00	ug/L	#	67
36) Toluene-d8 SCAN	10.486	98	229459	4277.29	ug/L		98
37) Toluene SCAN	10.591	91	2558	37.23	ug/L	#	48
38) 1,1,2-Trichloroethane ...	11.231	97	1208	78.34	ug/L	#	49
39) Tetrachloroethene SCAN	11.430	166	1292	78.28	ug/L	#	57
40) Chlorobenzene SCAN	12.772	112	3014	64.20	ug/L	#	73
41) 1,1,1,2-Tetrachloroeth...	12.915	131	1039	59.80	ug/L	#	57
42) Ethylbenzene SCAN	13.169	91	10481	83.74	ug/L		78
43) m&p-Xylene SCAN	13.169	91	10481	83.74	ug/L		83
44) o-Xylene SCAN	13.789	91	4079	60.88	ug/L	#	80
45) 1,1,2,2-Tetrachloroeth...	14.887	83	2141	65.54	ug/L	#	37
47) 1,2,4-Trimethylbenzene...	15.904	105	4021	55.66	ug/L	#	59
48) Naphthalene SCAN	17.901	128	2332	21.33	ug/L		50

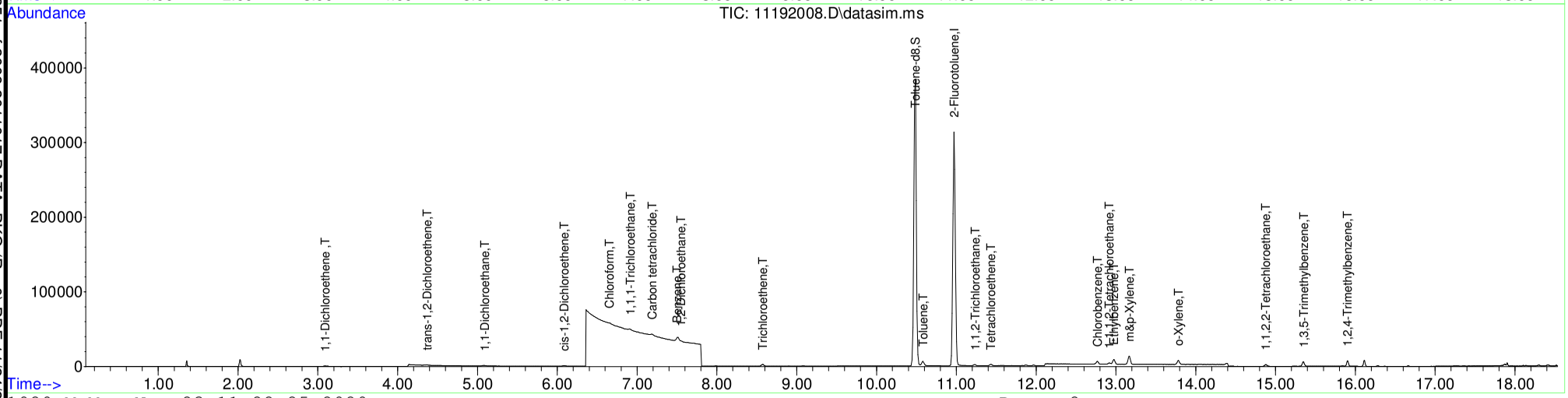
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192008.D
Acq On : 19 Nov 2020 11:08
InstName : AG5975C
Operator : TD
Sample : B20K078-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 23 08:14:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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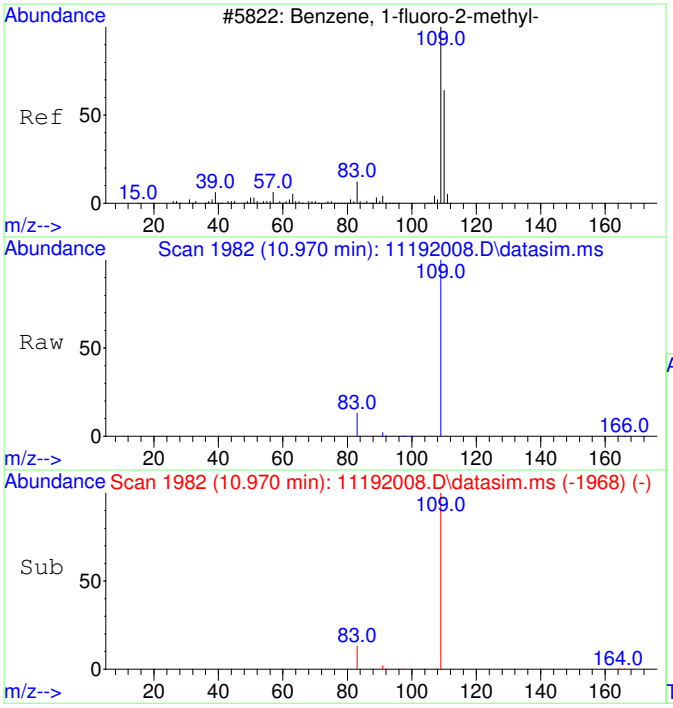
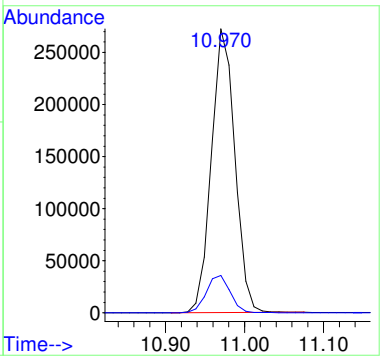
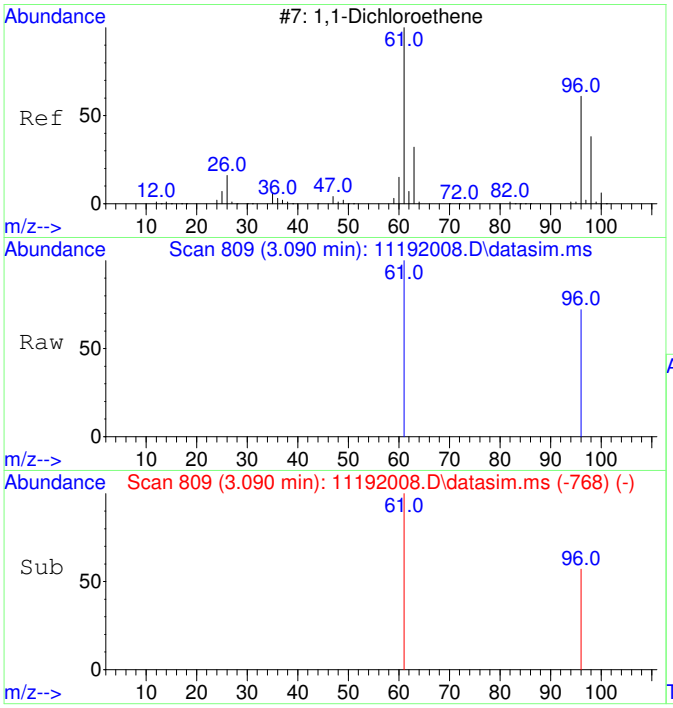


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:109 Resp: 562715

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

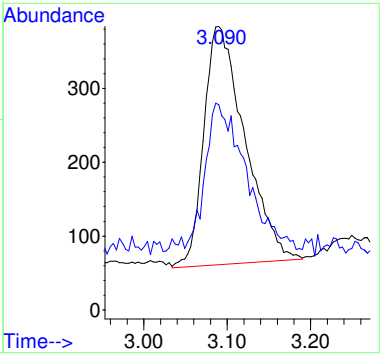


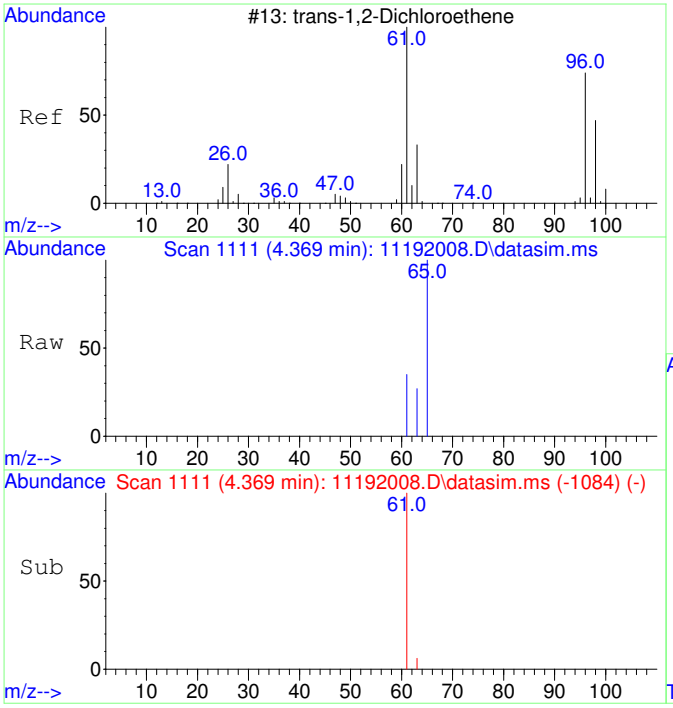


#2
1,1-Dichloroethene
Concen: 49.09 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 1103

Ion	Ratio	Lower	Upper
61	100		
96	75.9	37.2	97.2

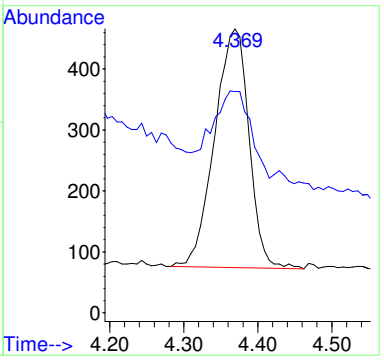


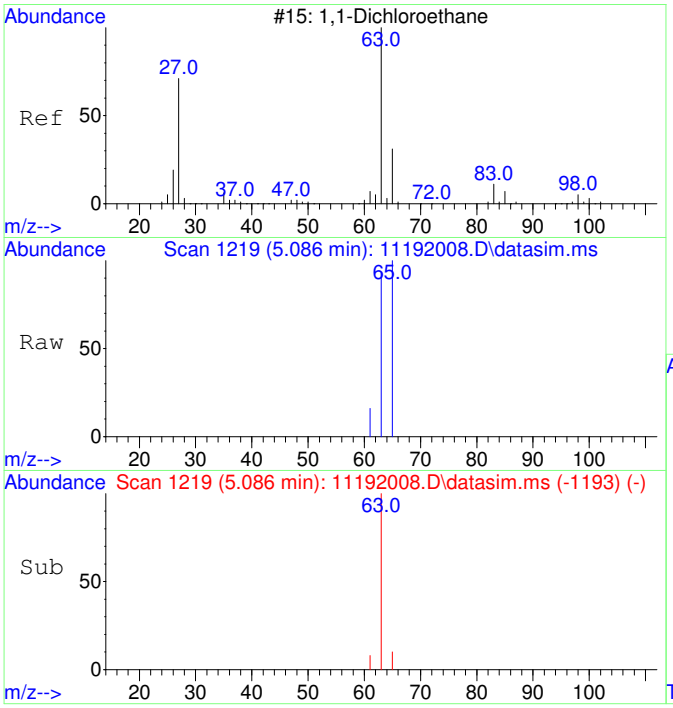


#3
trans-1,2-Dichloroethene
Concen: 48.84 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. 0.026 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 1268

Ion	Ratio	Lower	Upper
61	100		
63	39.3	2.4	62.4

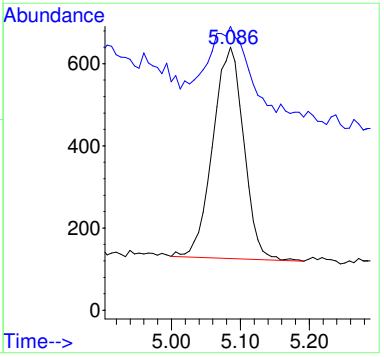


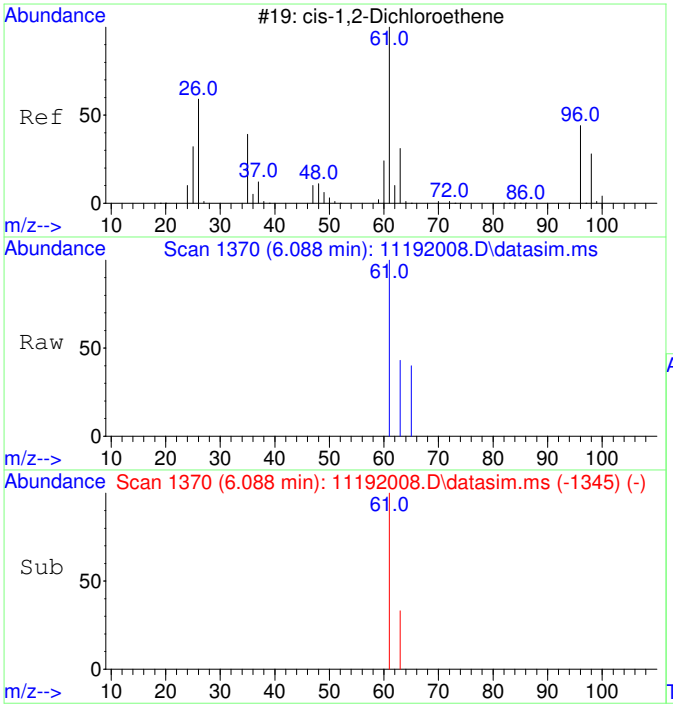


#4
1,1-Dichloroethane
Concen: 49.60 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 63 Resp: 1603

Ion	Ratio	Lower	Upper
63	100		
65	55.8	1.8	61.8

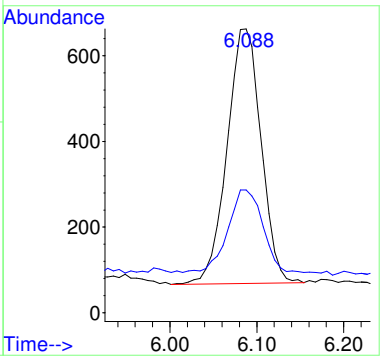


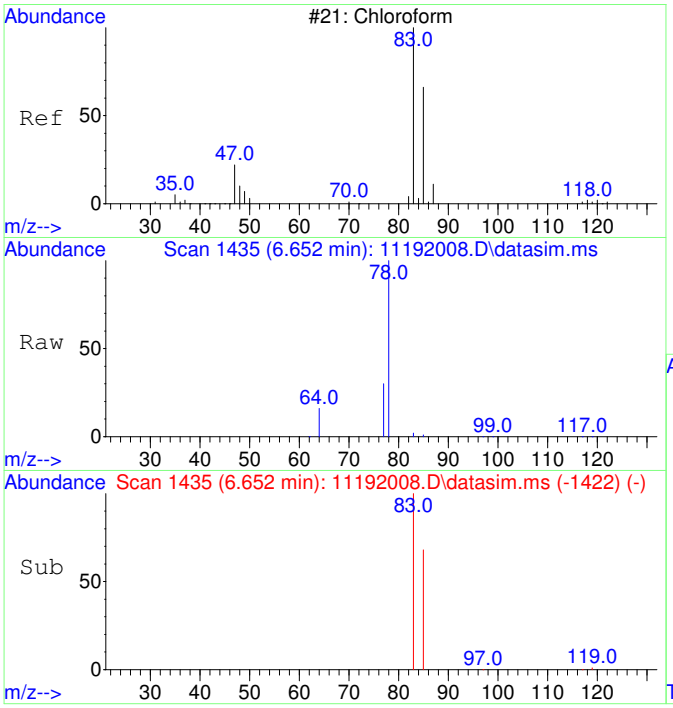


#5
cis-1,2-Dichloroethene
Concen: 47.49 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 1620

Ion	Ratio	Lower	Upper
61	100		
63	37.2	2.5	62.5

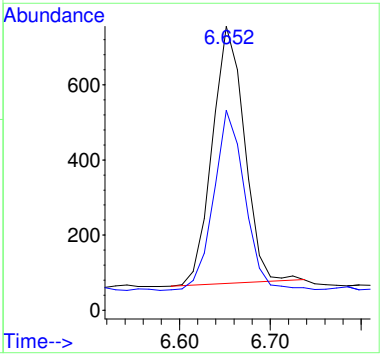


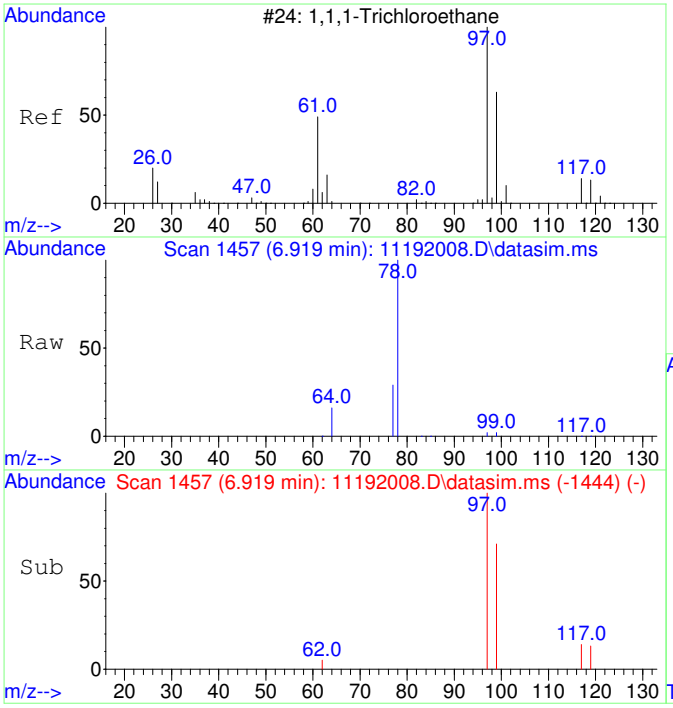


#6
Chloroform
Concen: 48.26 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 1685

Ion	Ratio	Lower	Upper
83	100		
85	67.7	35.1	95.1

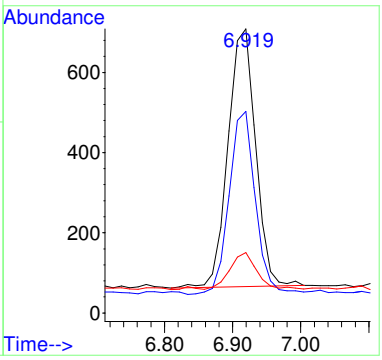


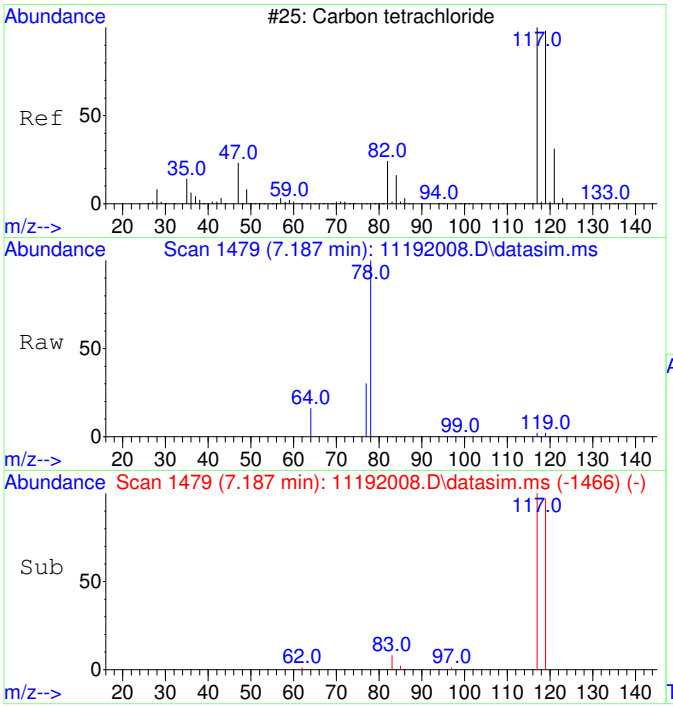


#7
1,1,1-Trichloroethane
Concen: 47.63 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 97 Resp: 1806

Ion	Ratio	Lower	Upper
97	100		
99	67.8	34.6	94.6
117	13.9	0.0	43.2

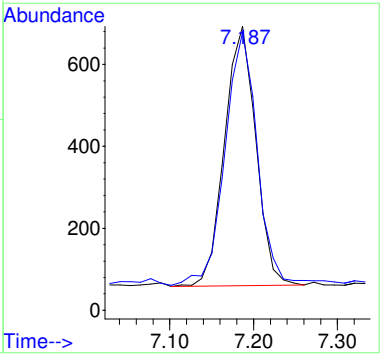


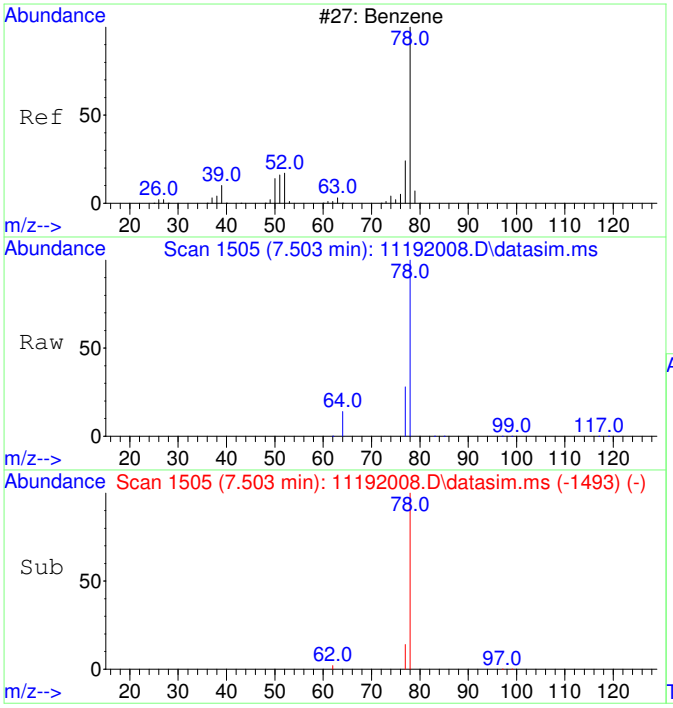


#8
Carbon tetrachloride
Concen: 45.87 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:117 Resp: 1637

Ion	Ratio	Lower	Upper
117	100		
119	100.7	66.4	126.4

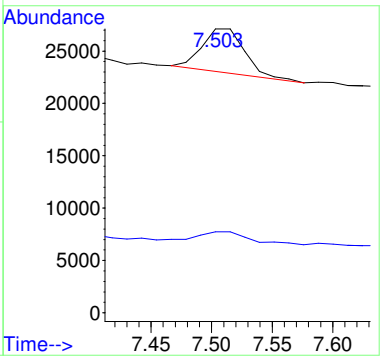


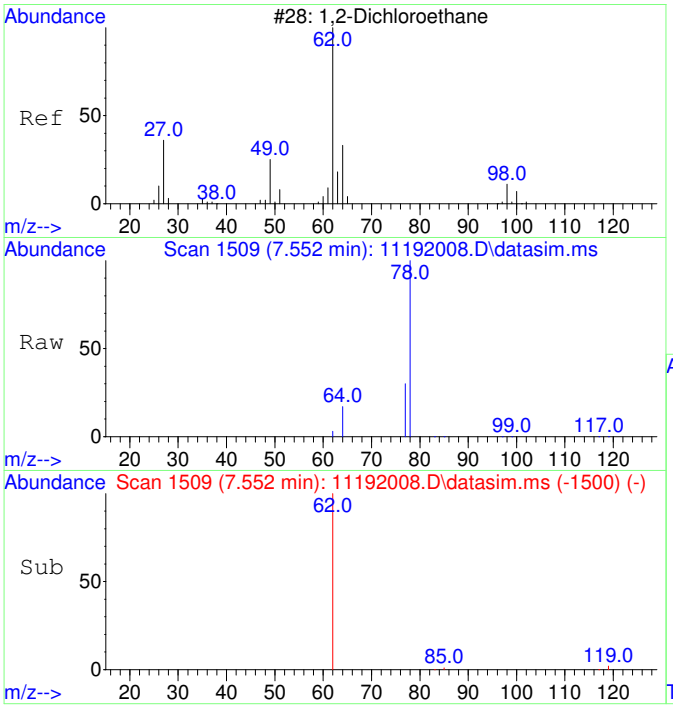


#9
Benzene
Concen: 100.19 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 78 Resp: 9579

Ion	Ratio	Lower	Upper
78	100		
77	41.1	0.0	53.2

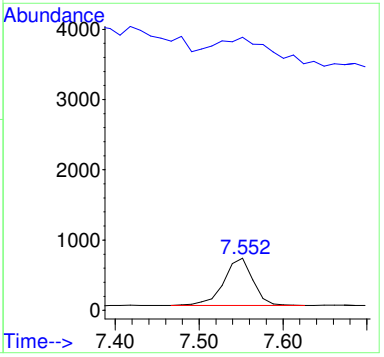


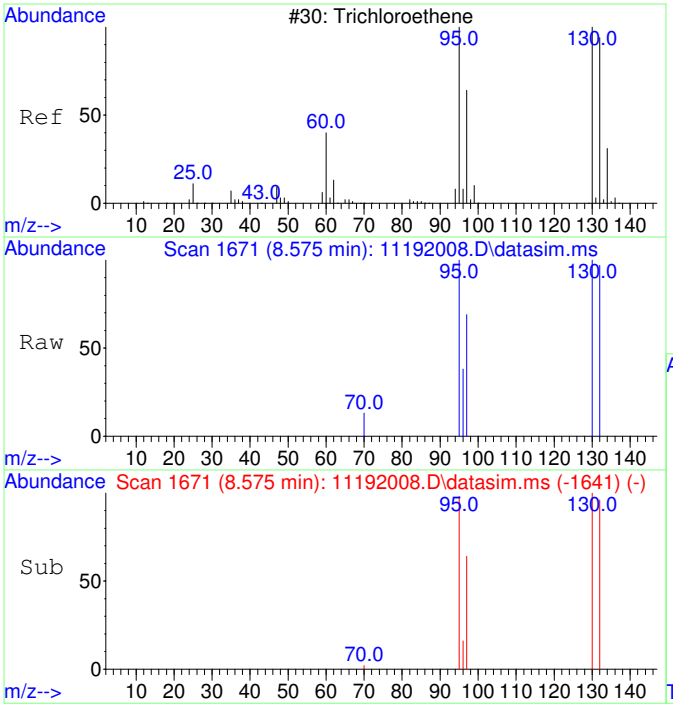


#10
1,2-Dichloroethane
Concen: 47.58 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 62 Resp: 1624

Ion	Ratio	Lower	Upper
62	100		
64	99.0	2.3	62.3#

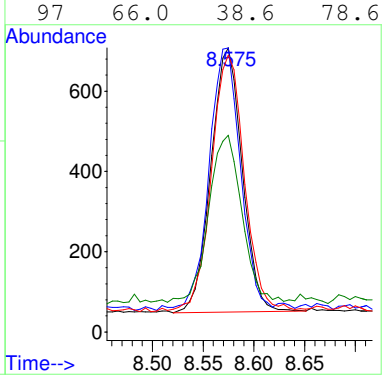


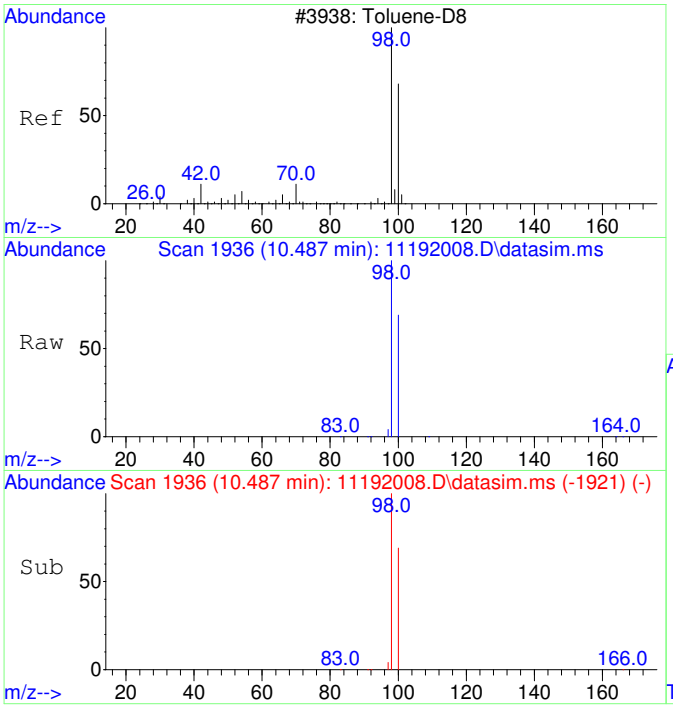


#11
Trichloroethene
Concen: 49.09 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:130 Resp: 1413

Ion	Ratio	Lower	Upper
130	100		
95	100.0	60.7	120.7
132	101.0	76.0	116.0
97	66.0	38.6	78.6

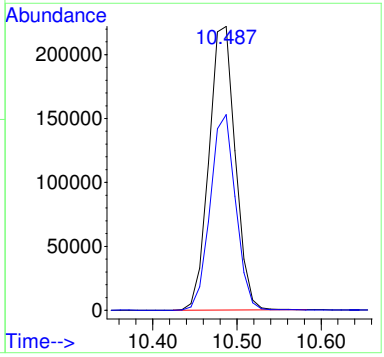


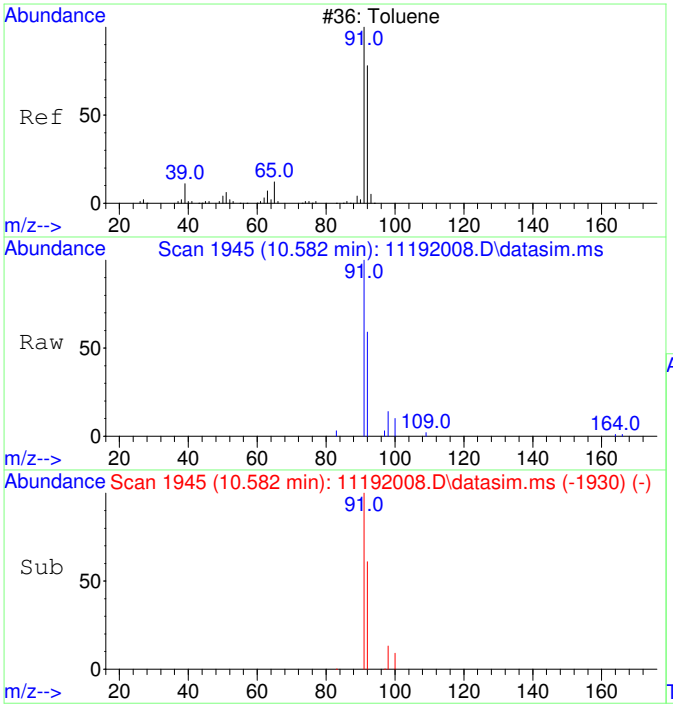


#12
Toluene-d8
Concen: 4383.60 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 98 Resp: 482886

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

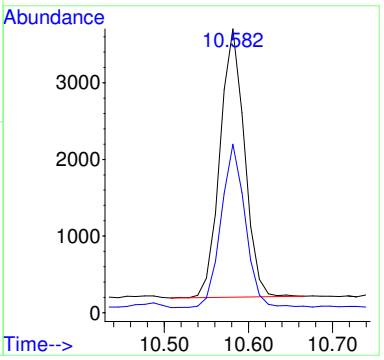


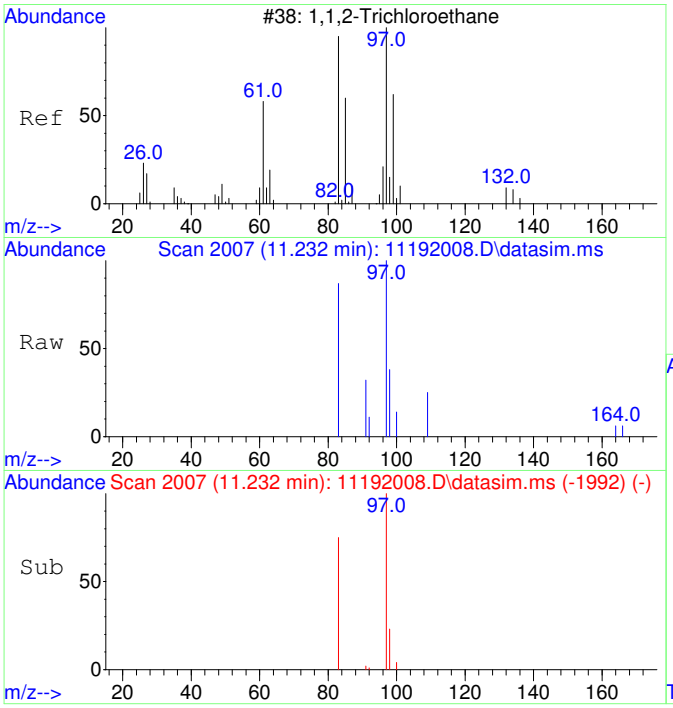


#13
Toluene
Concen: 50.36 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 7073

Ion	Ratio	Lower	Upper
91	100		
92	59.7	29.9	89.9

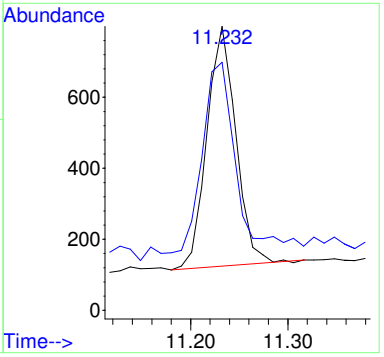


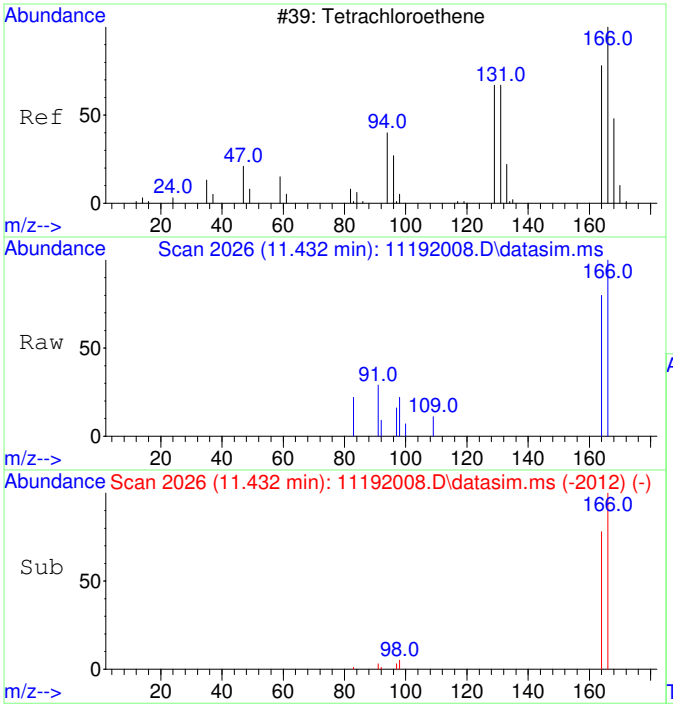


#14
1,1,2-Trichloroethane
Concen: 45.55 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 97 Resp: 1394

Ion	Ratio	Lower	Upper
97	100		
83	109.0	51.2	111.2

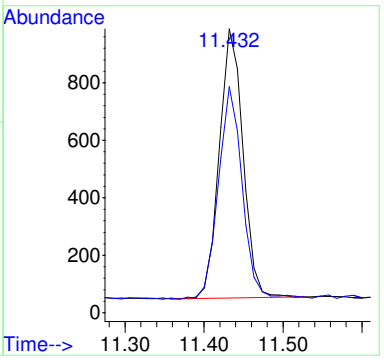


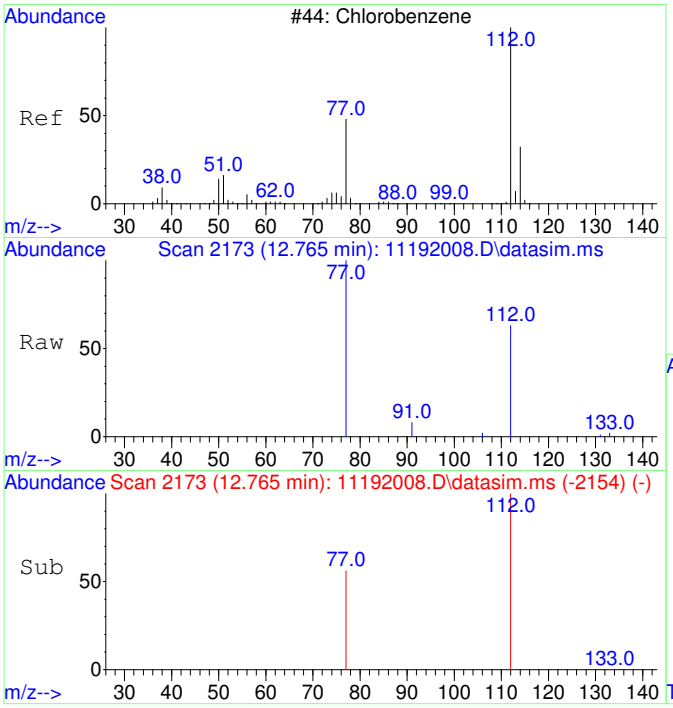


#15
Tetrachloroethene
Concen: 47.88 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:166 Resp: 1946

Ion	Ratio	Lower	Upper
166	100		
164	79.4	47.8	107.8

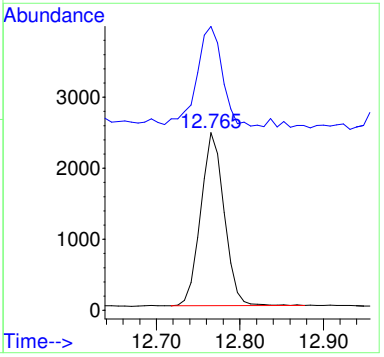


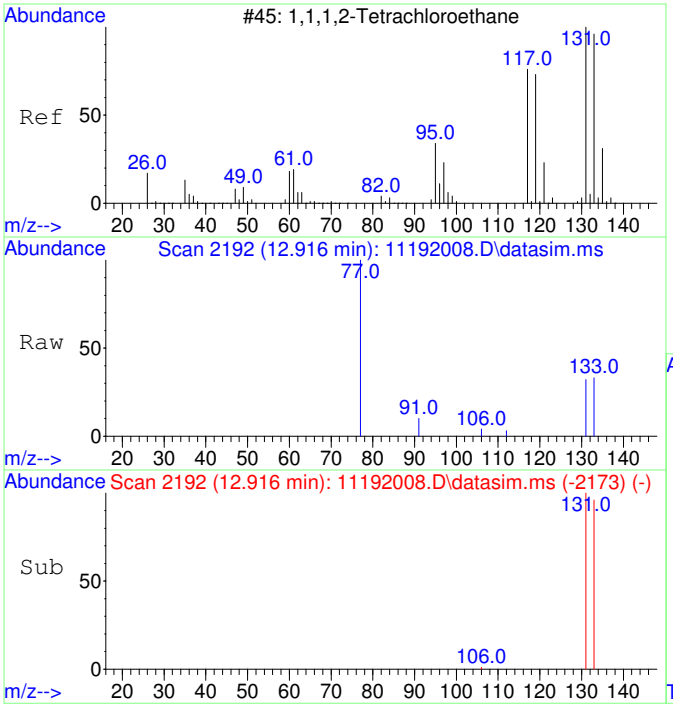


#16
Chlorobenzene
Concen: 47.26 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:112 Resp: 4753

Ion	Ratio	Lower	Upper
112	100		
77	62.8	23.6	83.6

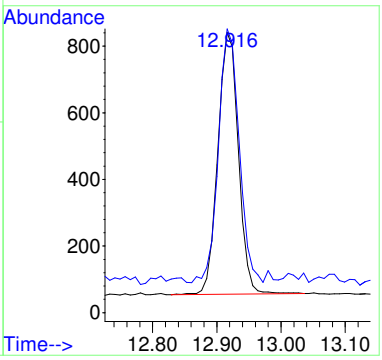


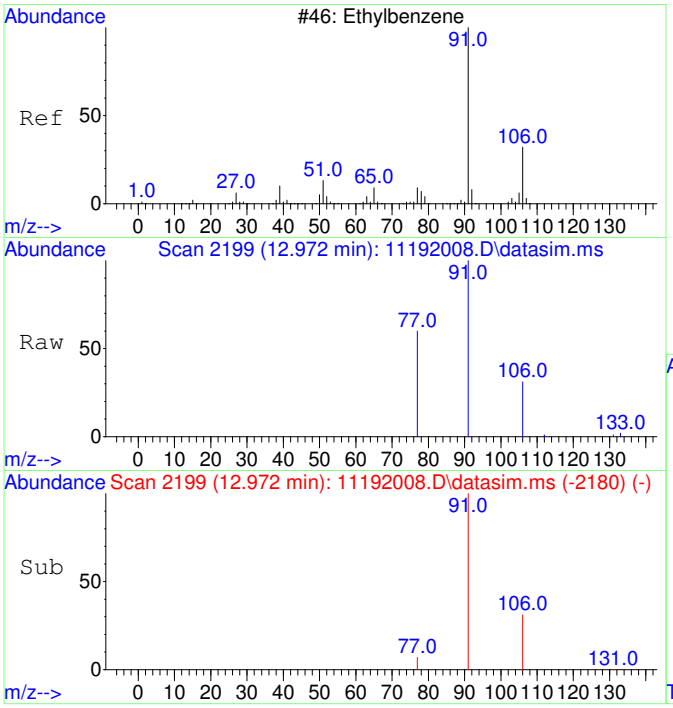


#17
1,1,1,2-Tetrachloroethane
Concen: 48.09 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:131 Resp: 1733

Ion	Ratio	Lower	Upper
131	100		
133	97.6	66.3	126.3

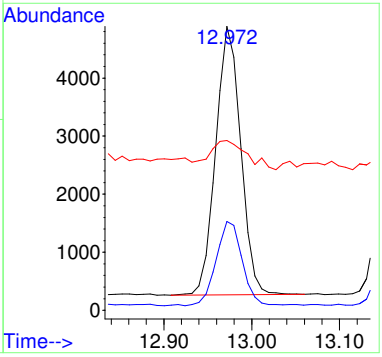


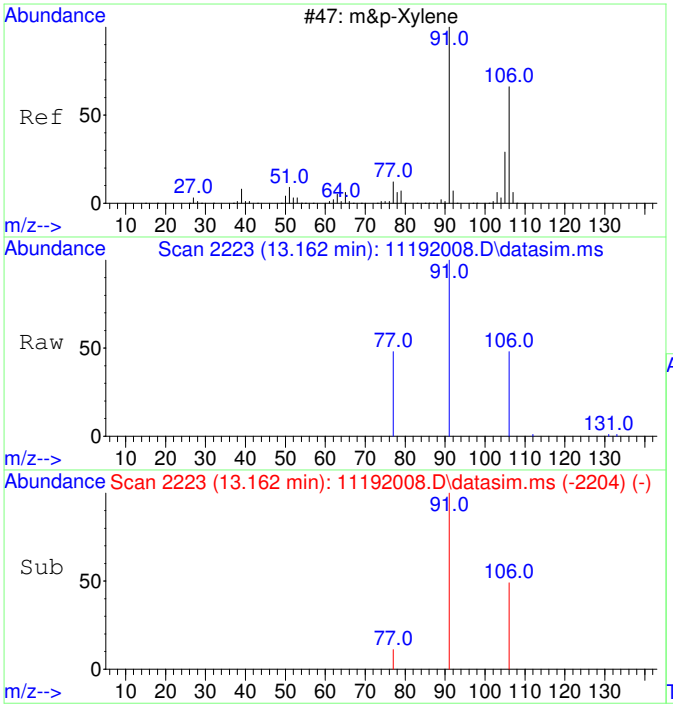


#18
Ethylbenzene
Concen: 53.54 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 9152

Ion	Ratio	Lower	Upper
91	100		
106	32.7	3.0	63.0
77	15.9	0.0	38.2

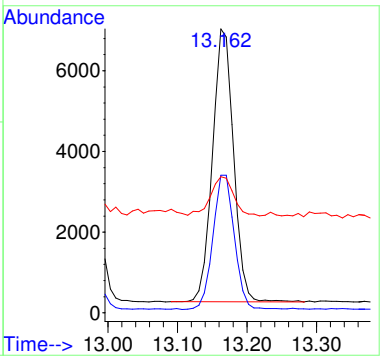


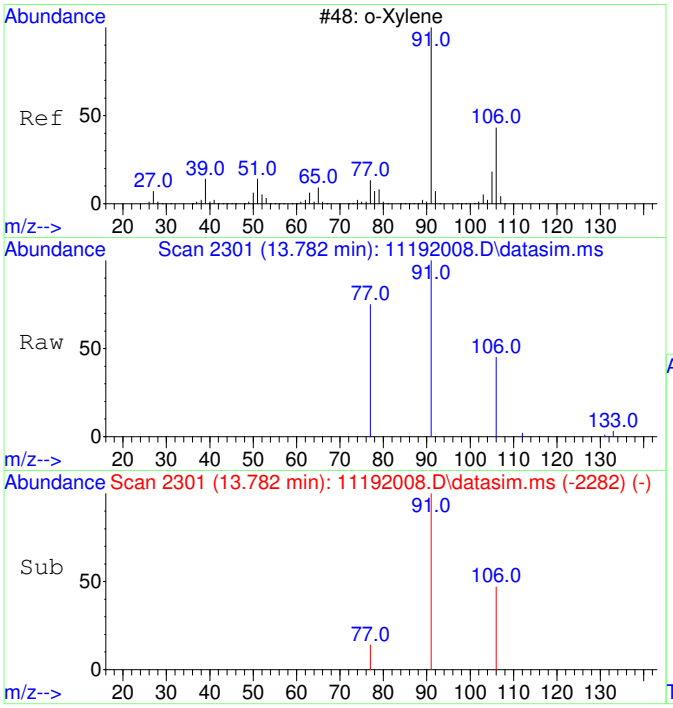


#19
m&p-Xylene
Concen: 106.70 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 14256

Ion	Ratio	Lower	Upper
91	100		
106	49.5	22.2	82.2
77	15.6	0.0	42.4

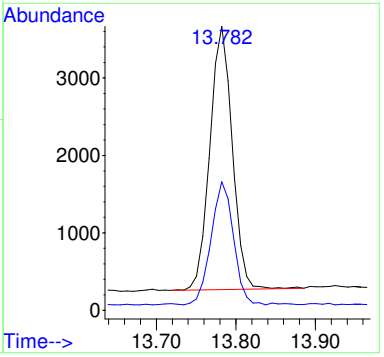


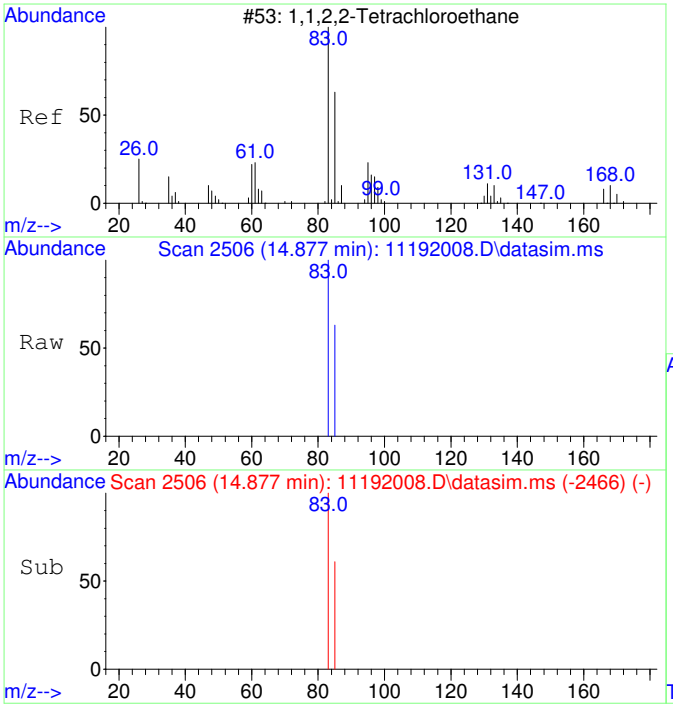


#20
o-Xylene
Concen: 46.67 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 6661

Ion	Ratio	Lower	Upper
91	100		
106	46.6	19.2	79.2

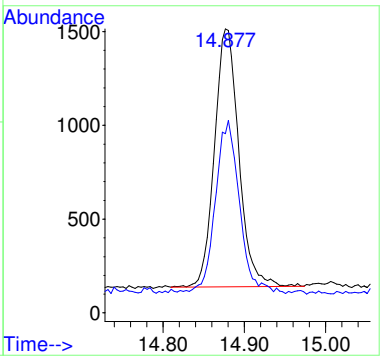


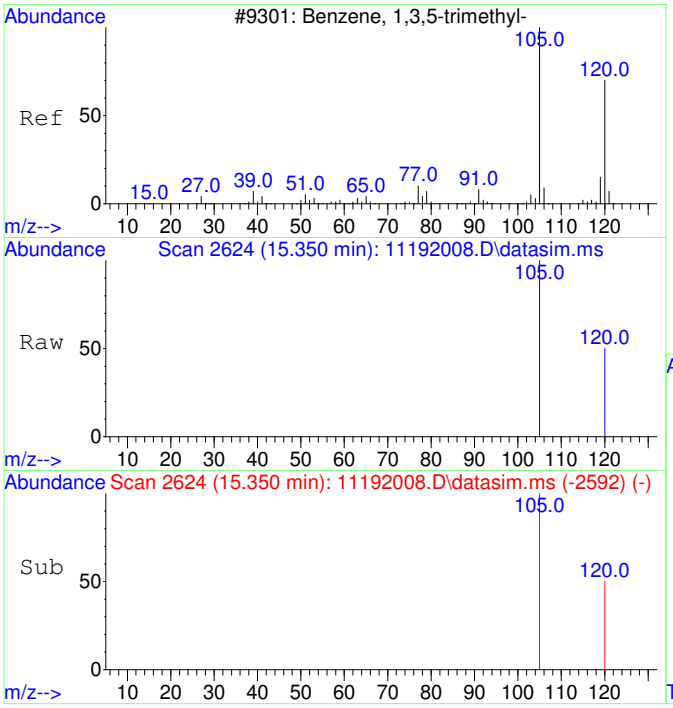


#21
1,1,2,2-Tetrachloroethane
Concen: 45.37 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 2870

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.8	94.8

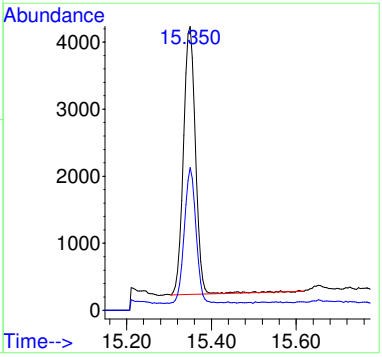


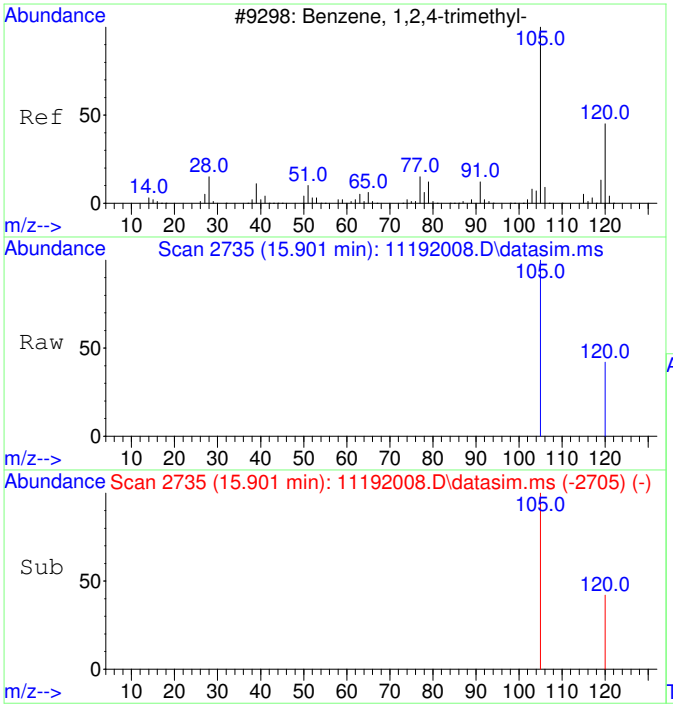


#22
1,3,5-Trimethylbenzene
Concen: 51.77 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:105 Resp: 7866

Ion	Ratio	Lower	Upper
105	100		
120	48.3	21.1	81.1

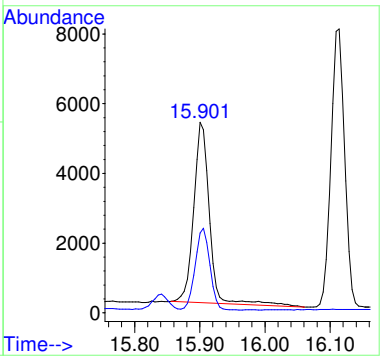


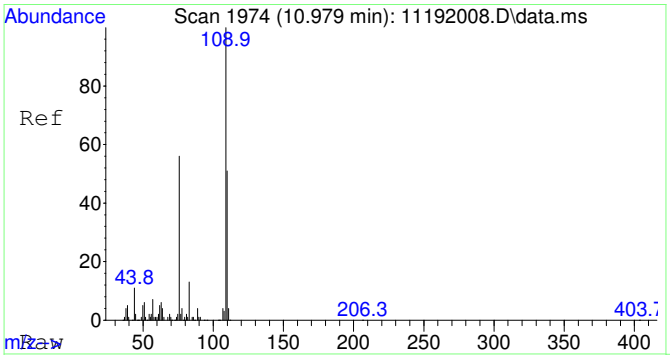


#23
1,2,4-Trimethylbenzene
Concen: 54.94 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:105 Resp: 8670

Ion	Ratio	Lower	Upper
105	100		
120	41.4	17.2	77.2

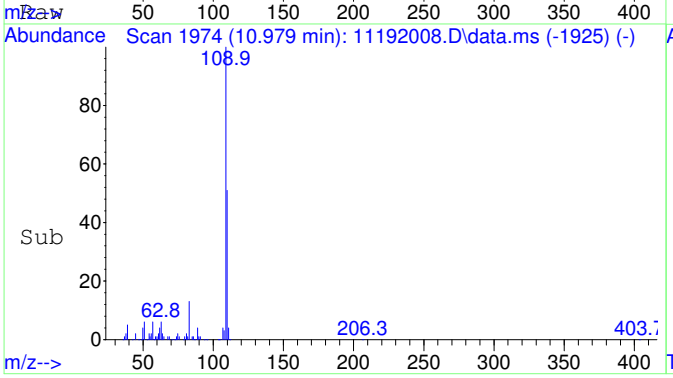


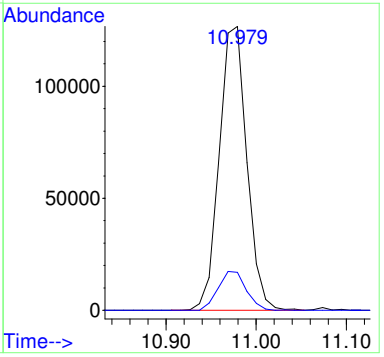


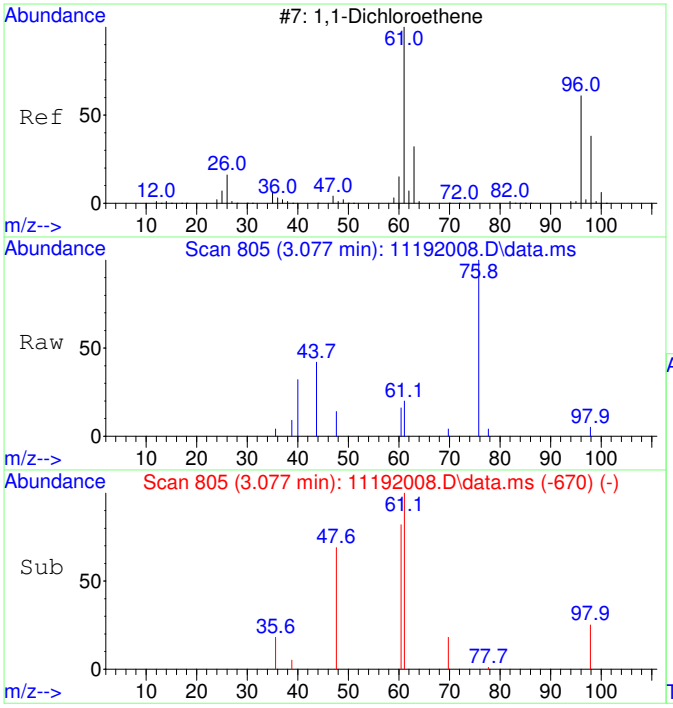
#25
2-Fluorotoluene SCAN
Concen: 4908.40 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:109 Resp: 269247

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	43.8



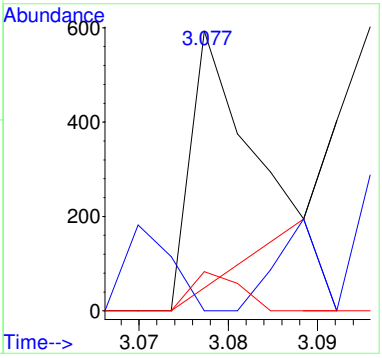


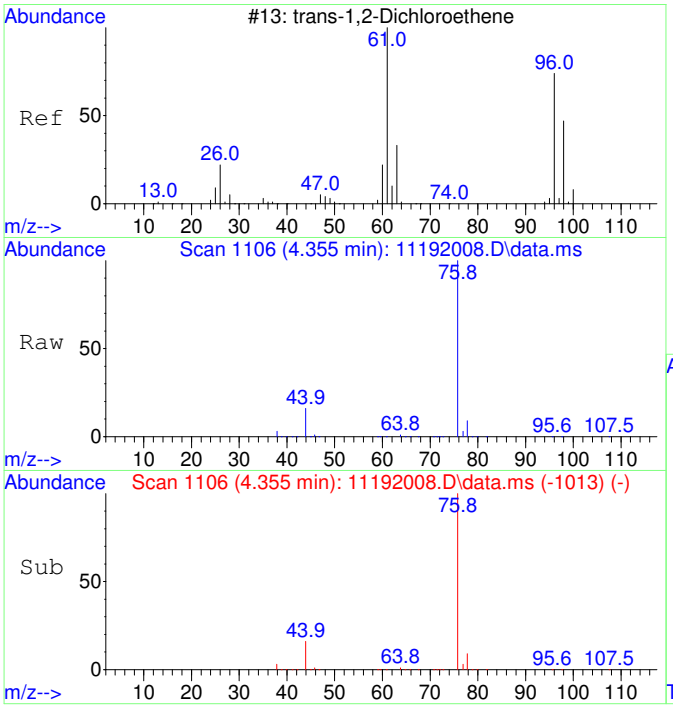


#26
1,1-Dichloroethene SCAN
Concen: 20.43 ug/L
RT: 3.077 min Scan# 805
Delta R.T. 0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 238

Ion	Ratio	Lower	Upper
61	100		
96	27.7	33.1	93.1#
98	0.0	11.2	71.2#

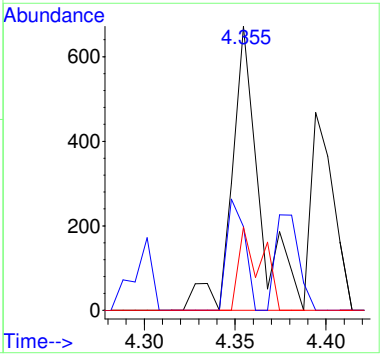


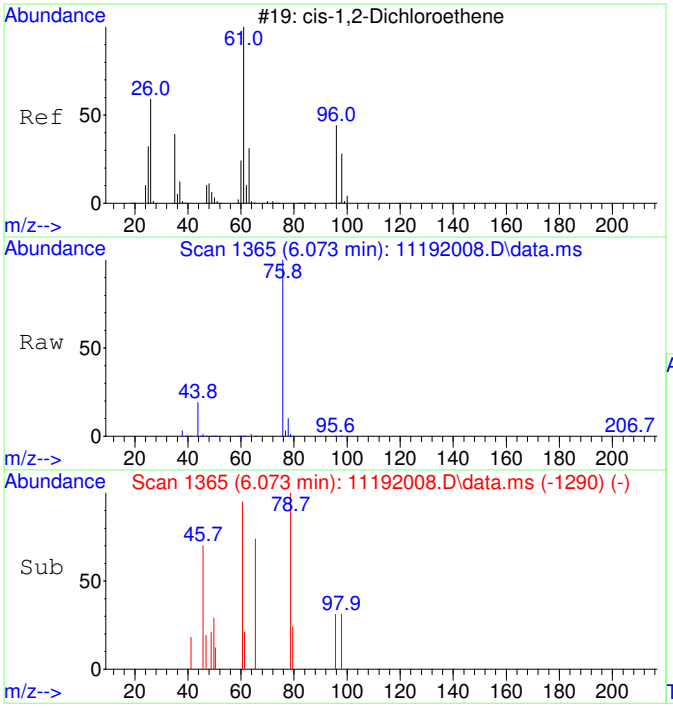


#27
trans-1,2-Dichloroethene SCAN
Concen: 49.46 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. 0.007 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 713

Ion	Ratio	Lower	Upper
61	100		
96	25.8	49.0	109.0#
98	24.4	20.5	80.5

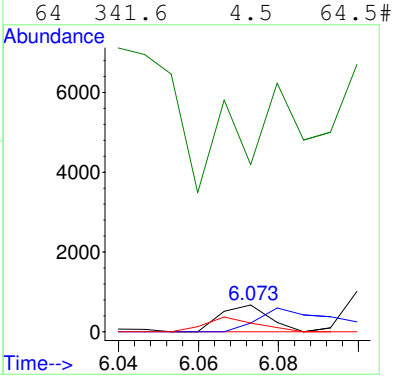


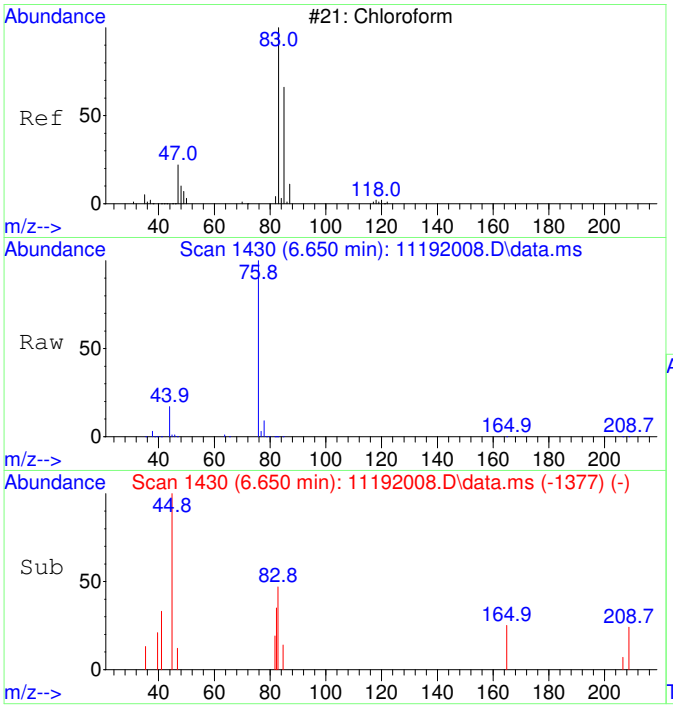


#29
cis-1,2-Dichloroethene SCAN
Concen: 31.50 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 563

Ion	Ratio	Lower	Upper
61	100		
96	140.5	39.9	99.9#
98	58.8	13.5	73.5
64	341.6	4.5	64.5#

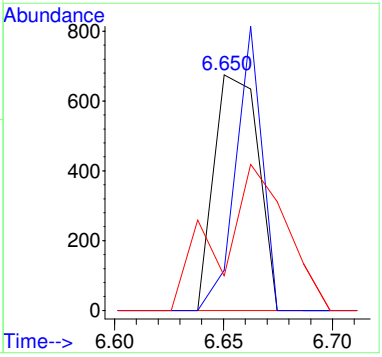


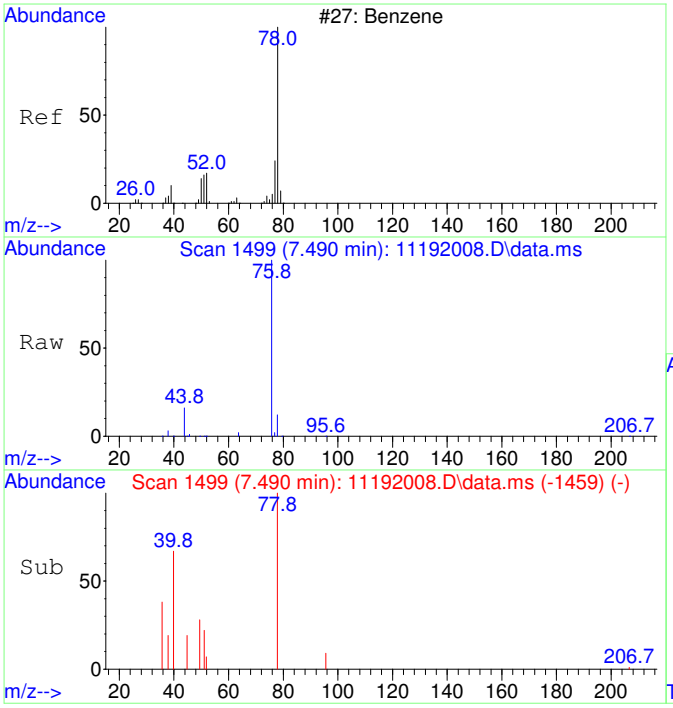


#30
Chloroform SCAN
Concen: 49.26 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 955

Ion	Ratio	Lower	Upper
83	100		
85	71.0	34.6	94.6
47	93.4	0.0	53.4#

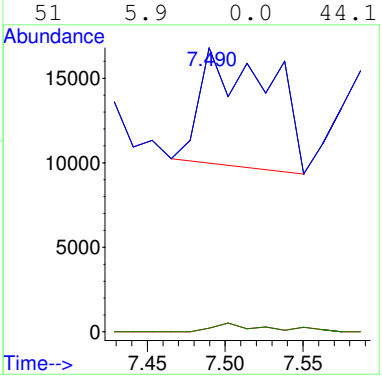


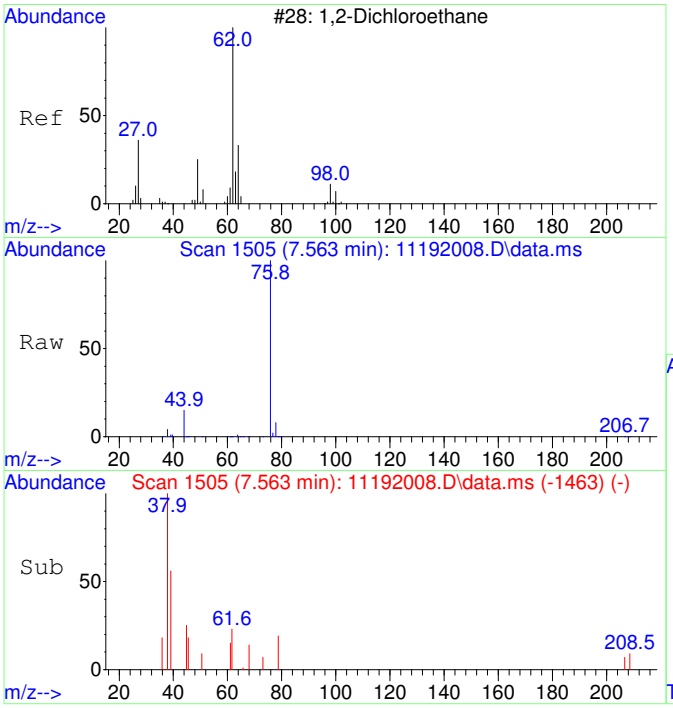


#33
Benzene SCAN
Concen: 432.96 ug/L
RT: 7.490 min Scan# 1499
Delta R.T. -0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 78 Resp: 21061

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	5.9	0.0	47.9
51	5.9	0.0	44.1

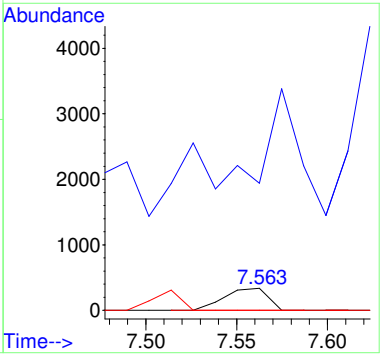


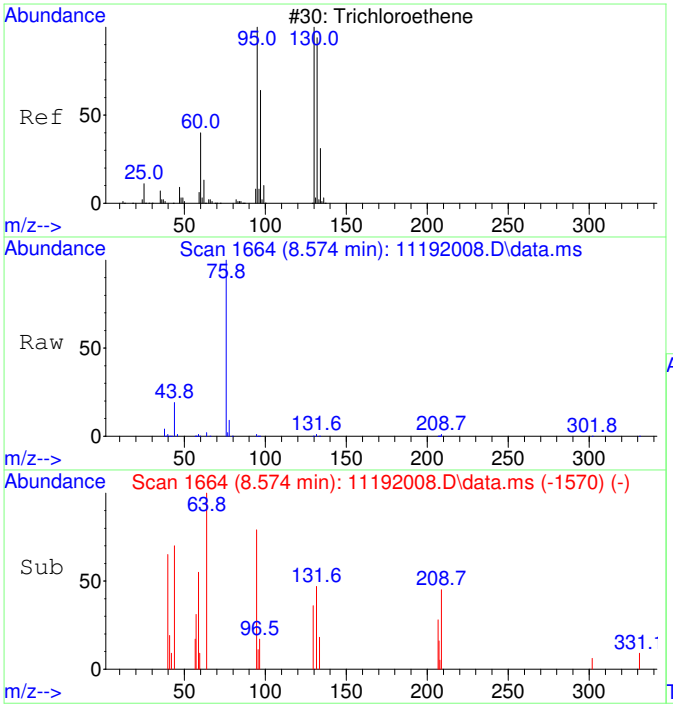


#34
1,2-Dichloroethane SCAN
Concen: 31.29 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 62 Resp: 562

Ion	Ratio	Lower	Upper
62	100		
64	253.7	5.2	65.2#
49	0.0	3.9	63.9#

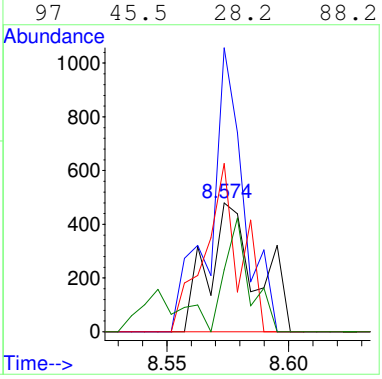


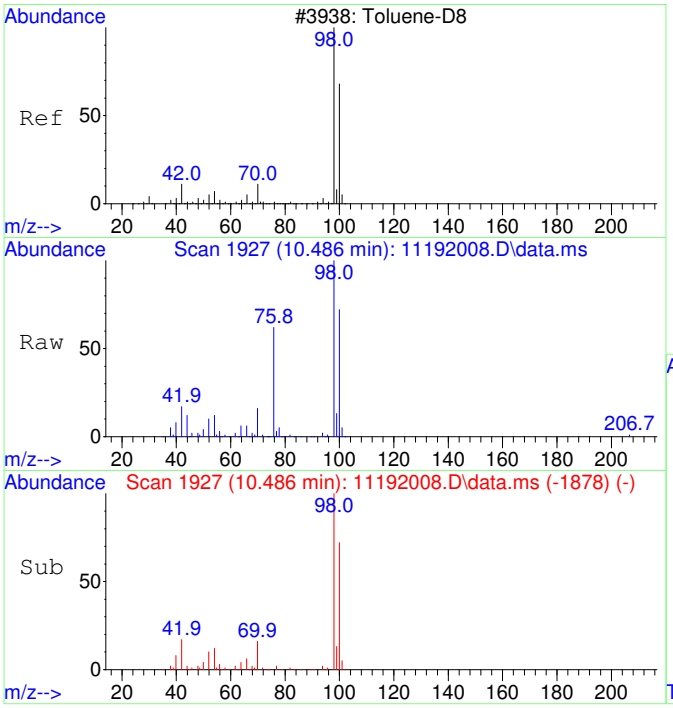


#35
Trichloroethene SCAN
Concen: 49.00 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:130 Resp: 655

Ion	Ratio	Lower	Upper
130	100		
95	154.4	60.5	120.5#
132	96.3	59.6	119.6
97	45.5	28.2	88.2

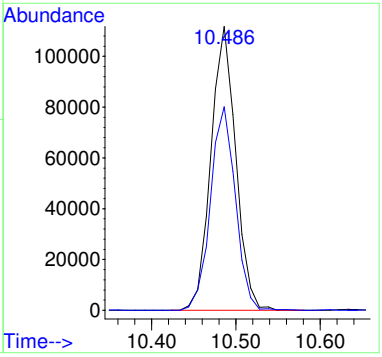


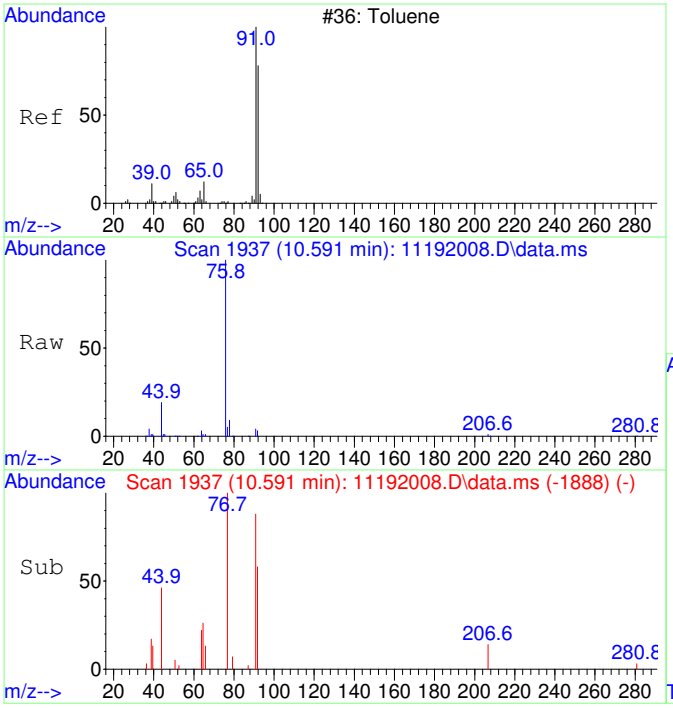


#36
Toluene-d8 SCAN
Concen: 4277.29 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 98 Resp: 229459

Ion	Ratio	Lower	Upper
98	100		
100	71.8	40.0	100.0

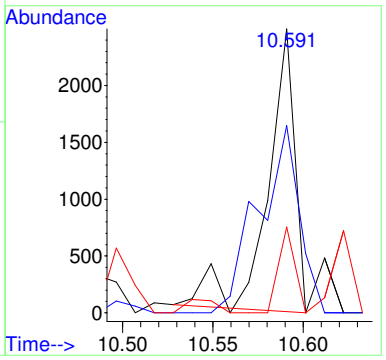


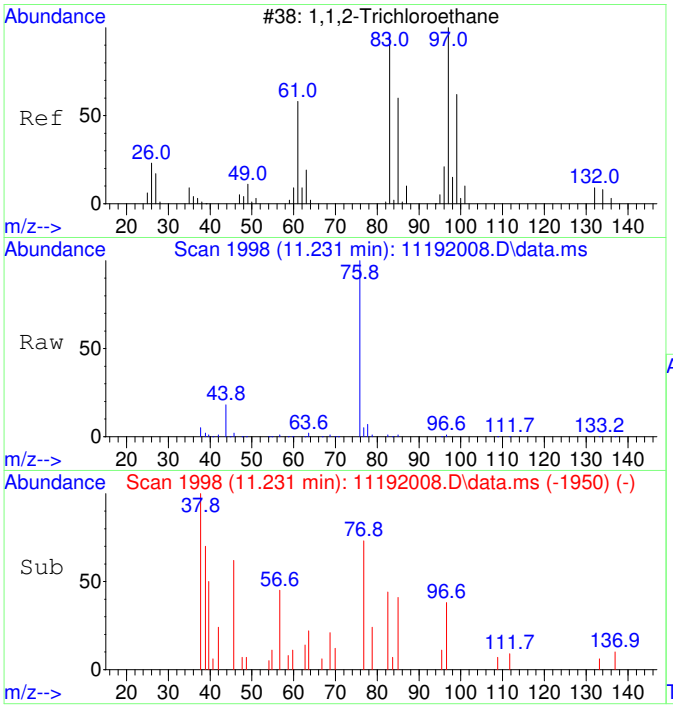


#37
Toluene SCAN
Concen: 37.23 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 2558

Ion	Ratio	Lower	Upper
91	100		
92	101.1	28.3	88.3#
65	18.6	0.0	41.0

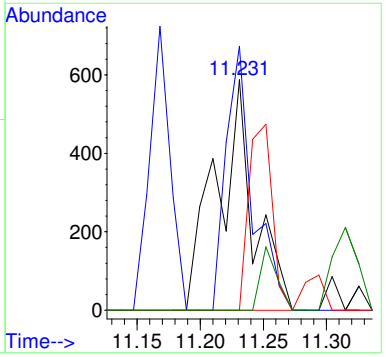


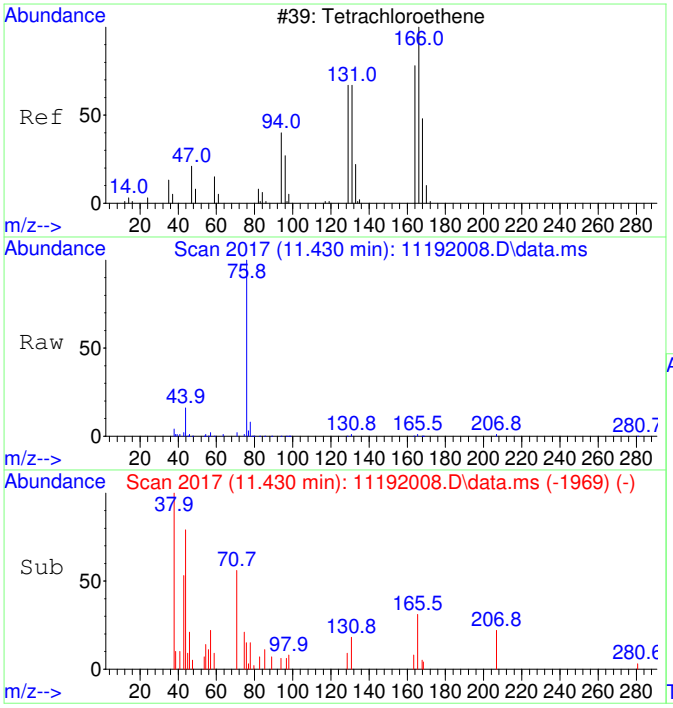


#38
1,1,2-Trichloroethane SCAN
Concen: 78.34 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 97 Resp: 1208

Ion	Ratio	Lower	Upper
97	100		
83	82.4	57.7	117.7
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

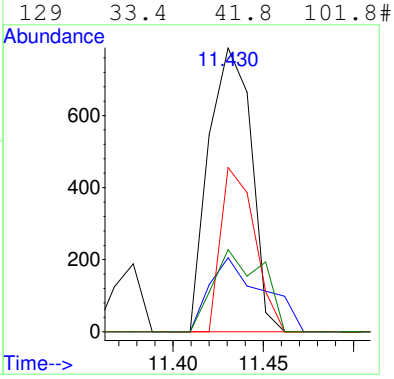


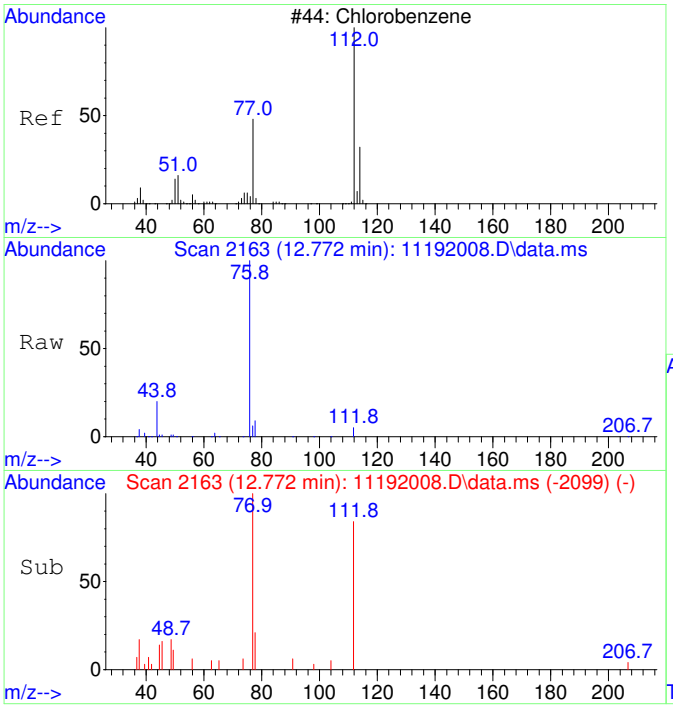


#39
Tetrachloroethene SCAN
Concen: 78.28 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:166 Resp: 1292

Ion	Ratio	Lower	Upper
166	100		
164	32.8	50.9	110.9#
131	46.4	38.7	98.7
129	33.4	41.8	101.8#

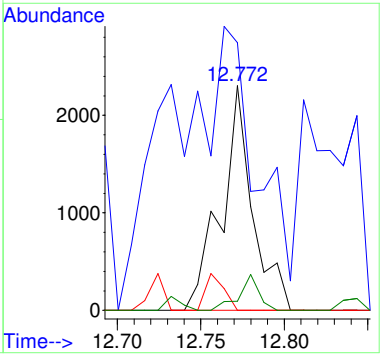


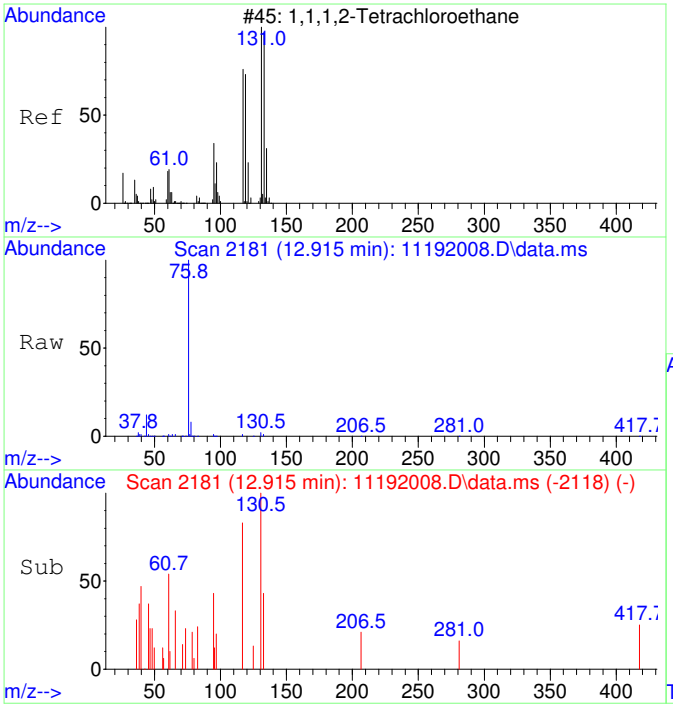


#40
Chlorobenzene SCAN
Concen: 64.20 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:112 Resp: 3014

Ion	Ratio	Lower	Upper
112	100		
77	66.7	28.2	88.2
114	0.0	2.3	62.3#
51	10.1	0.0	50.1

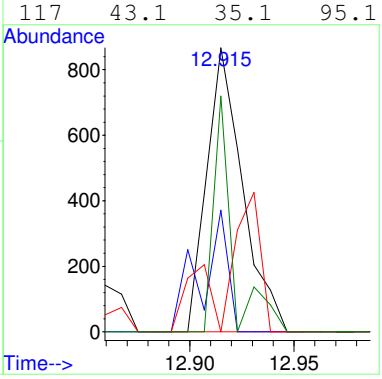


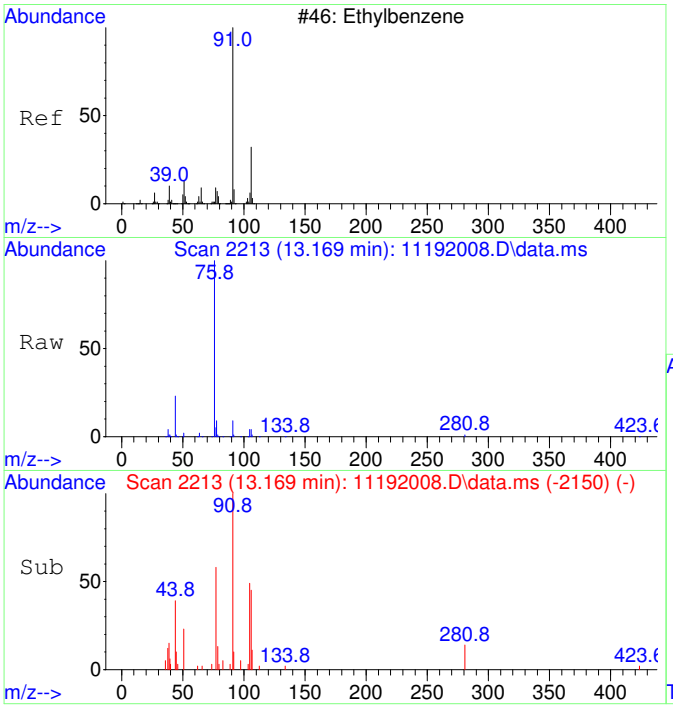


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 59.80 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:131 Resp: 1039

Ion	Ratio	Lower	Upper
131	100		
133	31.6	66.9	126.9#
119	50.7	40.4	100.4
117	43.1	35.1	95.1

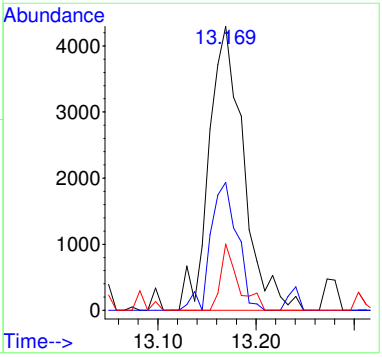


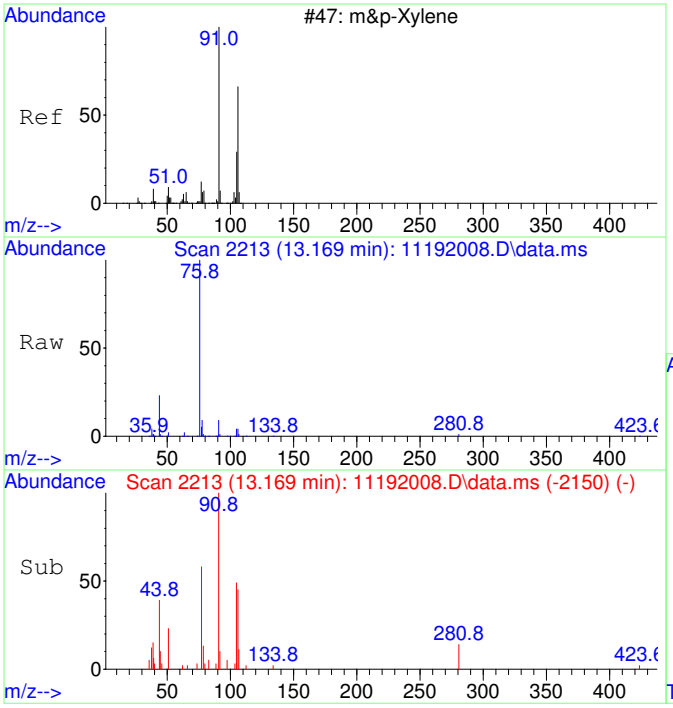


#42
Ethylbenzene SCAN
Concen: 83.74 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 10481

Ion	Ratio	Lower	Upper
91	100		
106	34.9	23.1	83.1
51	11.7	0.0	40.1

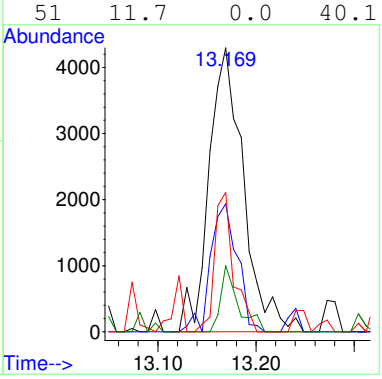


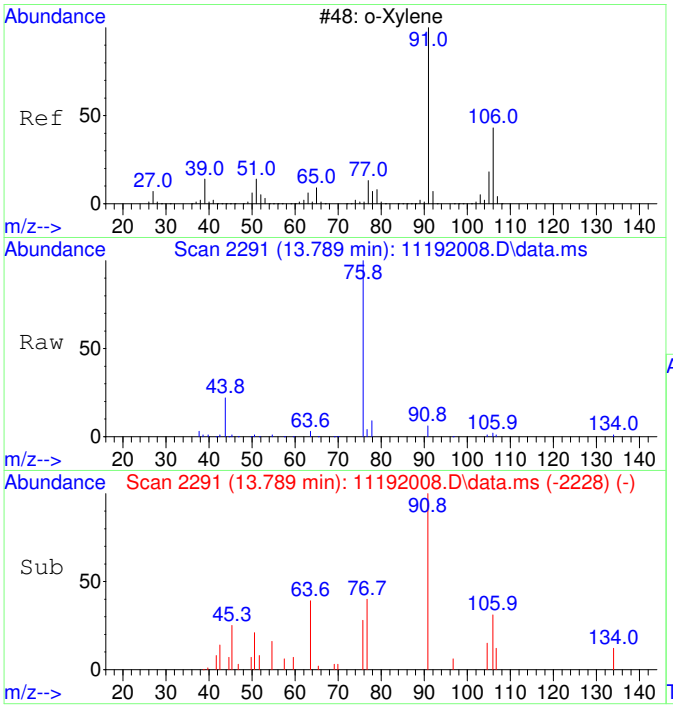


#43
m&p-Xylene SCAN
Concen: 83.74 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 10481

Ion	Ratio	Lower	Upper
91	100		
106	34.9	23.1	83.1
105	27.2	0.0	54.7
51	11.7	0.0	40.1

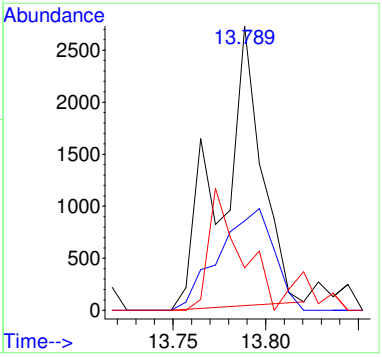


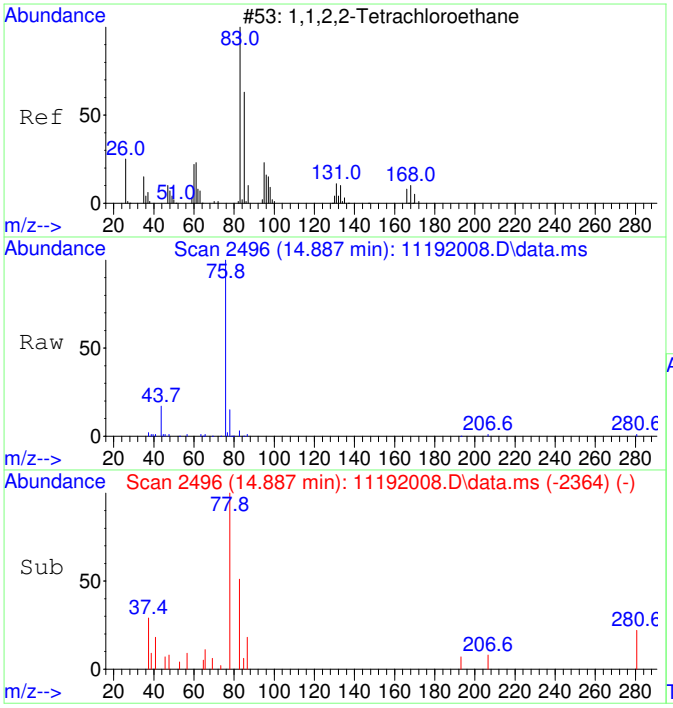


#44
o-Xylene SCAN
Concen: 60.88 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 4079

Ion	Ratio	Lower	Upper
91	100		
106	49.6	18.0	78.0
105	0.0	0.0	56.6

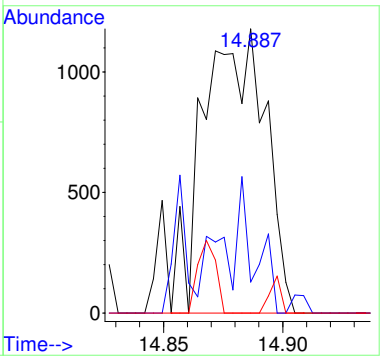


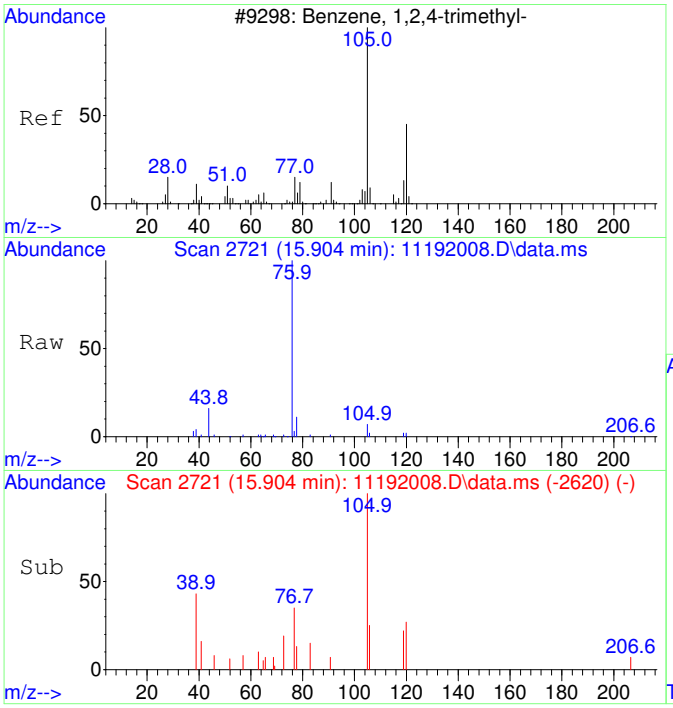


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 65.54 ug/L
RT: 14.887 min Scan# 2496
Delta R.T. 0.015 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 2141

Ion	Ratio	Lower	Upper
83	100		
85	10.2	35.9	95.9#
95	2.3	0.0	47.4

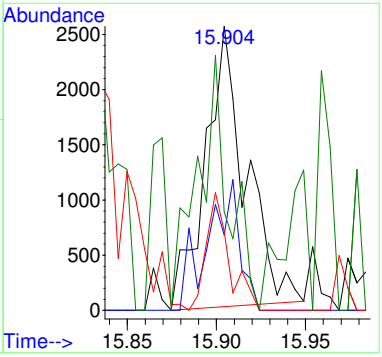


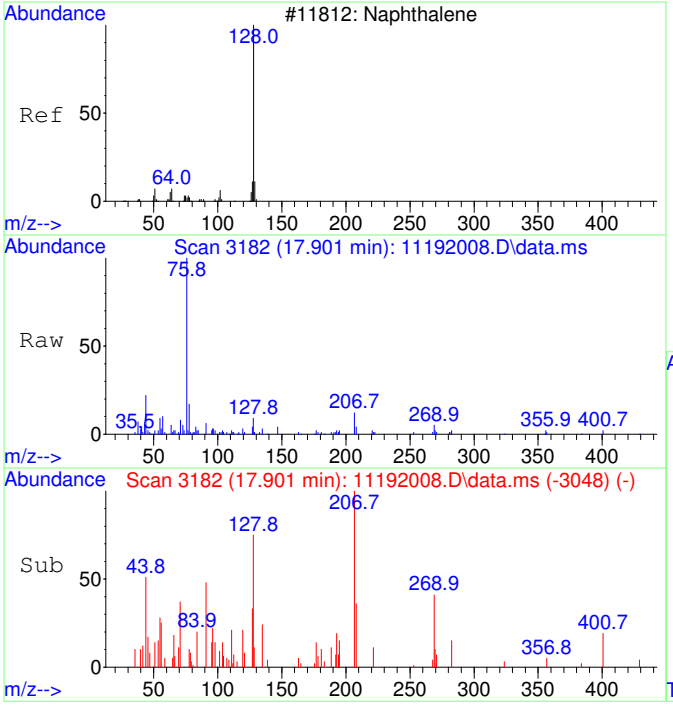


#47
1,2,4-Trimethylbenzene SCAN
Concen: 55.66 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:105 Resp: 4021

Ion	Ratio	Lower	Upper
105	100		
120	36.7	16.9	76.9
119	23.8	0.0	41.9
77	69.8	0.0	42.3#

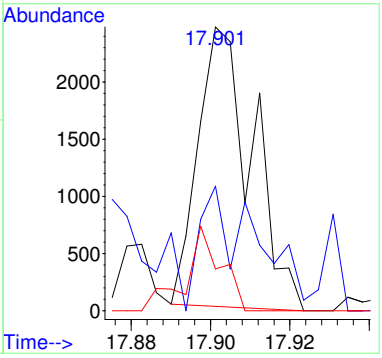




#48
Naphthalene SCAN
Concen: 21.33 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. -0.004 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:128 Resp: 2332

Ion	Ratio	Lower	Upper
128	100		
127	42.9	0.0	44.0
129	19.5	0.0	40.8



2011017-19

Quantitation Report (Not Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192009.D
Acq On : 19 Nov 2020 11:31
InstName : AG5975C
Operator : TD
Sample : 2011017-19
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 23 08:14:10 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

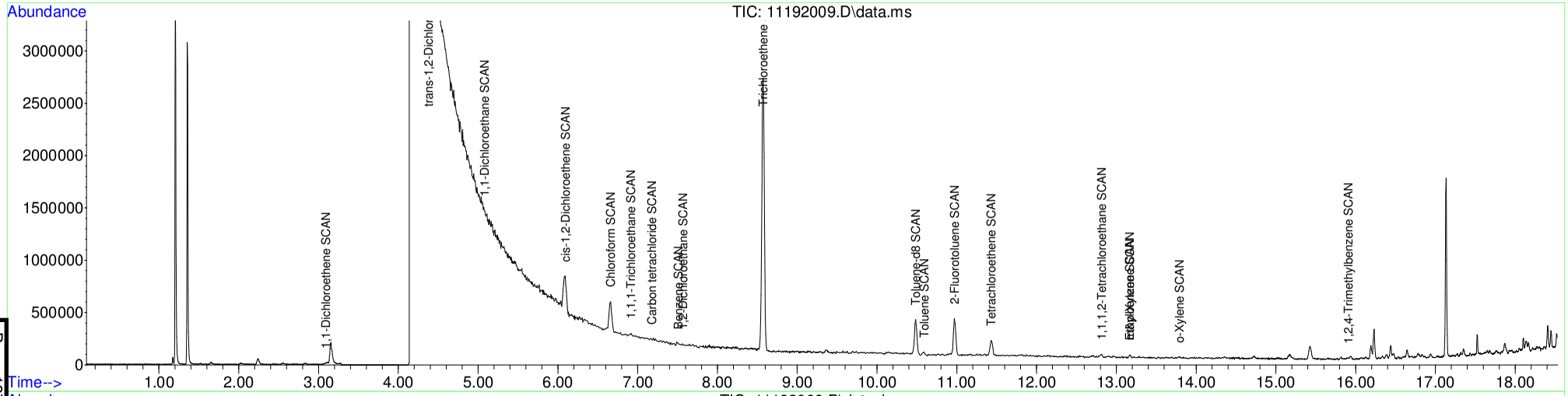
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	588054	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	500715	4349.58 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.99%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	25272	1076.23 ug/L	85
3] trans-1,2-Dichloroethene	4.369	61	33034	1217.60 ug/L	99
4] 1,1-Dichloroethane	5.086	63	32083	949.99 ug/L	98
5] cis-1,2-Dichloroethene	6.088	61	566487	15890.81 ug/L	100
6] Chloroform	6.652	83	498417	13659.81 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	23331	588.78 ug/L	100
8] Carbon tetrachloride	7.187	117	5362	143.77 ug/L	99
9] Benzene	7.503	78	20540	205.58 ug/L	73
10] 1,2-Dichloroethane	7.552	62	2275	63.78 ug/L	71
11] Trichloroethene	8.569	130	2006207	66689.74 ug/L **oc**	94
13] Toluene	10.582	91	44562	303.63 ug/L	98
15] Tetrachloroethene	11.432	166	108966	2565.51 ug/L	100
18] Ethylbenzene	12.972	91	11044	61.82 ug/L	97
19] m&p-Xylene	13.162	91	27017	193.50 ug/L	95
20] o-Xylene	13.782	91	14690	98.48 ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	7991	48.46 ug/L	86
25) 2-Fluorotoluene SCAN	10.969	109	292703	5106.08 ug/L	100
26) 1,1-Dichloroethene SCAN	3.096	61	6813	559.63 ug/L #	75
27) trans-1,2-Dichloroethe...	4.375	61	18094	1201.10 ug/L #	71
28) 1,1-Dichloroethane SCAN	5.078	63	19485	1117.63 ug/L	80
29) cis-1,2-Dichloroethene...	6.093	61	304764	16315.74 ug/L #	85
30) Chloroform SCAN	6.662	83	257815	12725.23 ug/L	94
31) 1,1,1-Trichloroethane ...	6.918	97	11747	636.26 ug/L #	44
32) Carbon tetrachloride SCAN	7.173	117	2204	114.44 ug/L #	36
33) Benzene SCAN	7.514	78	10880	214.03 ug/L	92
34) 1,2-Dichloroethane SCAN	7.563	62	1082	57.64 ug/L #	1
35) Trichloroethene SCAN	8.574	130	930055	66576.58 ug/L	85
36) Toluene-d8 SCAN	10.486	98	260200	4641.33 ug/L	93
37) Toluene SCAN	10.591	91	23646	329.35 ug/L	93
39) Tetrachloroethene SCAN	11.430	166	46667	2705.56 ug/L	96
41) 1,1,1,2-Tetrachloroeth...	12.820	131	781	43.02 ug/L #	42
42) Ethylbenzene SCAN	13.169	91	16405	125.42 ug/L	85
43) m&p-Xylene SCAN	13.169	91	16405	125.42 ug/L	85
44) o-Xylene SCAN	13.789	91	8413	120.16 ug/L	99
47) 1,2,4-Trimethylbenzene...	15.904	105	3444	45.62 ug/L #	91

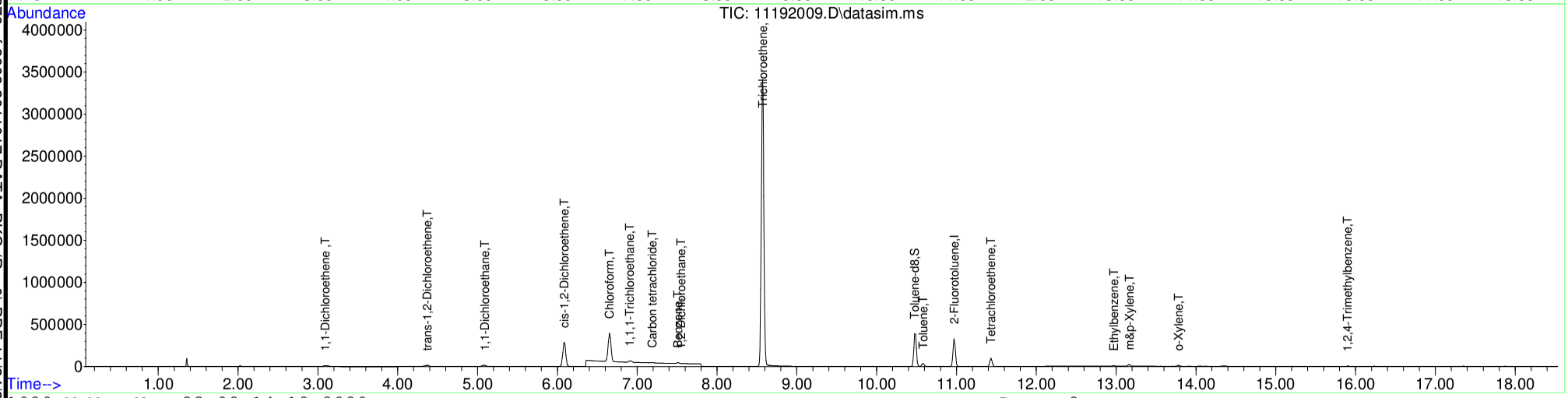
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192009.D
Acq On : 19 Nov 2020 11:31
InstName : AG5975C
Operator : TD
Sample : 2011017-19
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 23 08:14:10 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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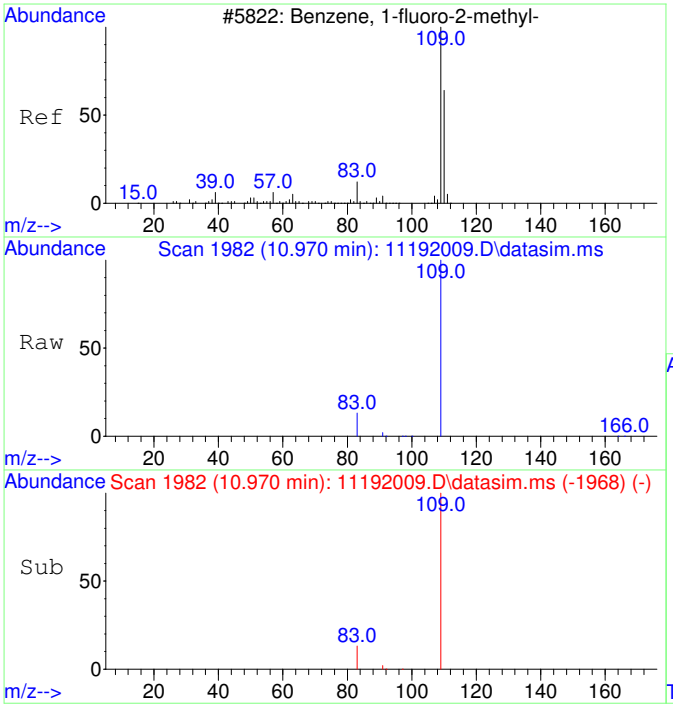
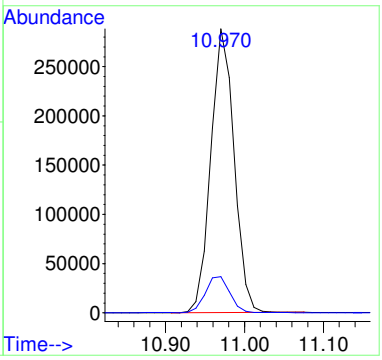
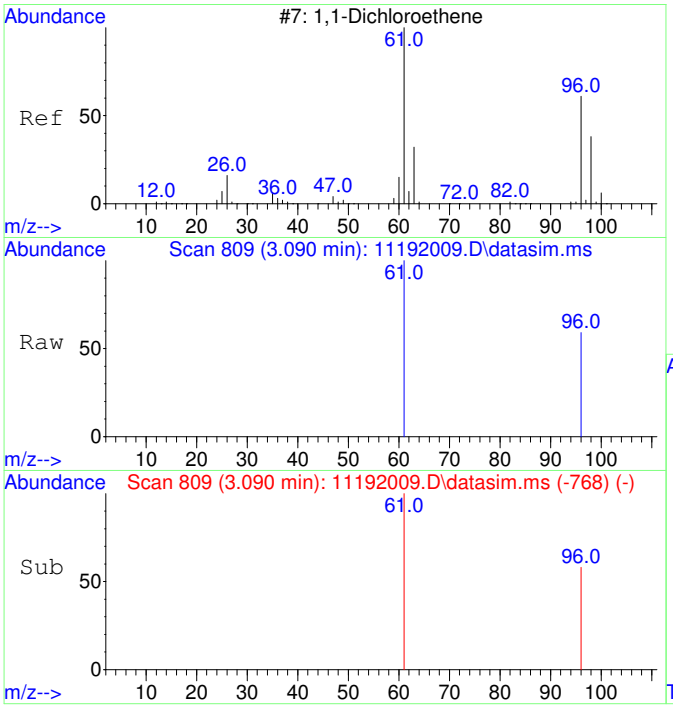


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion:109 Resp: 588054

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	42.3

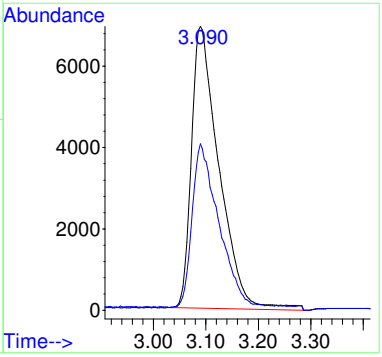


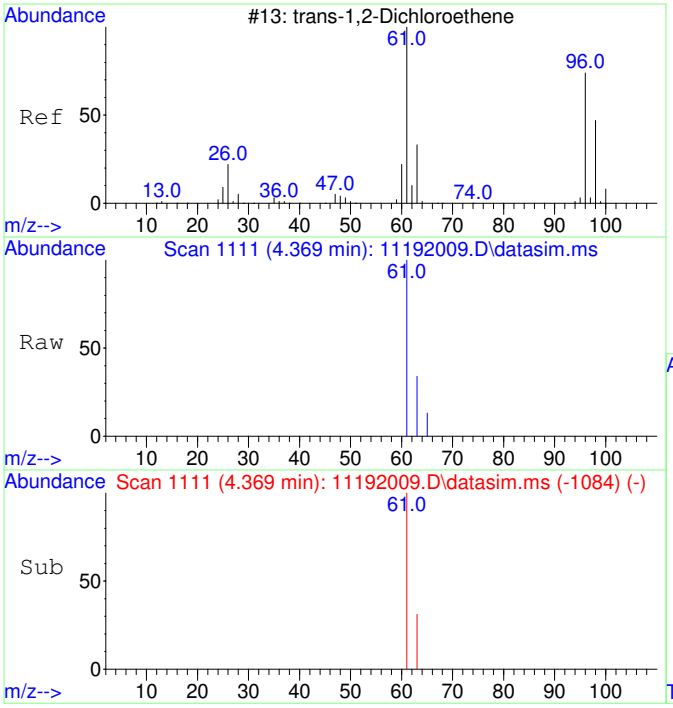


#2
1,1-Dichloroethene
Concen: 1076.23 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 61 Resp: 25272

Ion	Ratio	Lower	Upper
61	100		
96	55.3	37.2	97.2

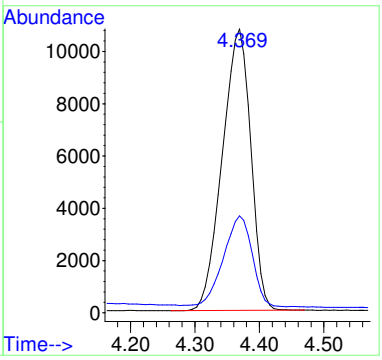


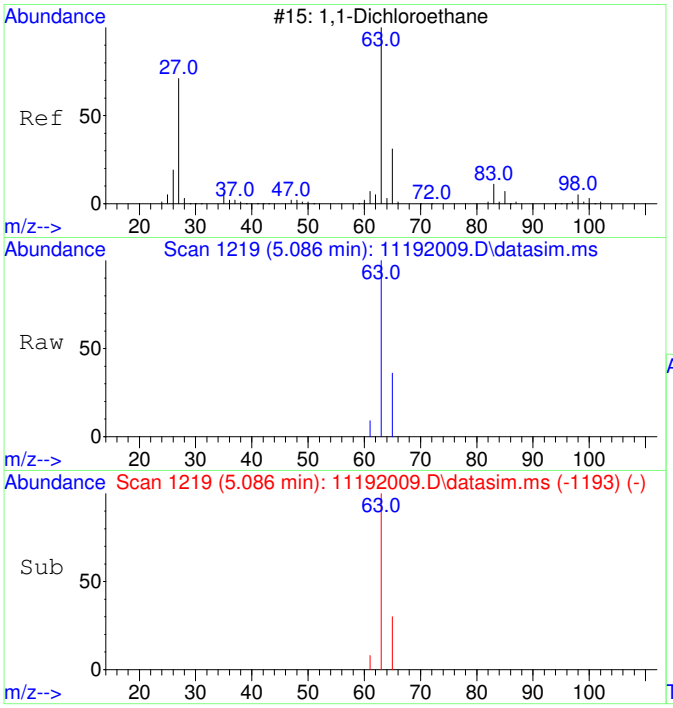


#3
trans-1,2-Dichloroethene
Concen: 1217.60 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. 0.027 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 61 Resp: 33034

Ion	Ratio	Lower	Upper
61	100		
63	32.8	2.4	62.4

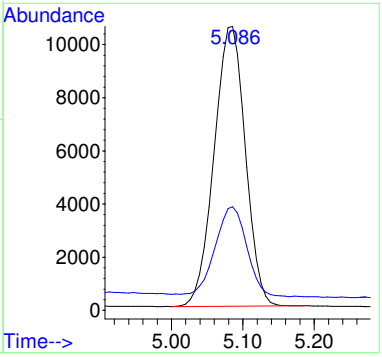


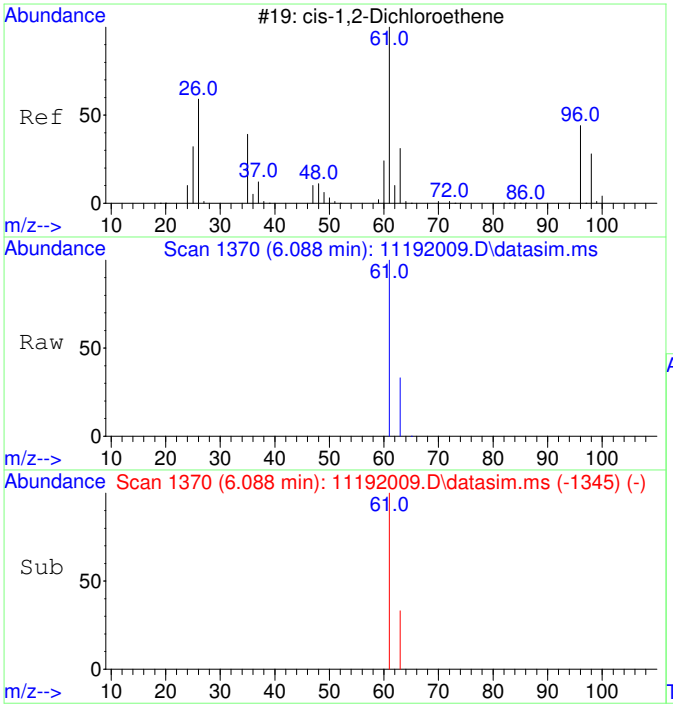


#4
1,1-Dichloroethane
Concen: 949.99 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 63 Resp: 32083

Ion	Ratio	Lower	Upper
63	100		
65	33.0	1.8	61.8

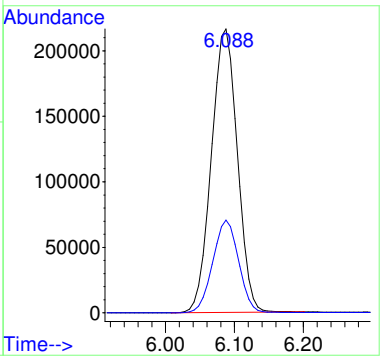


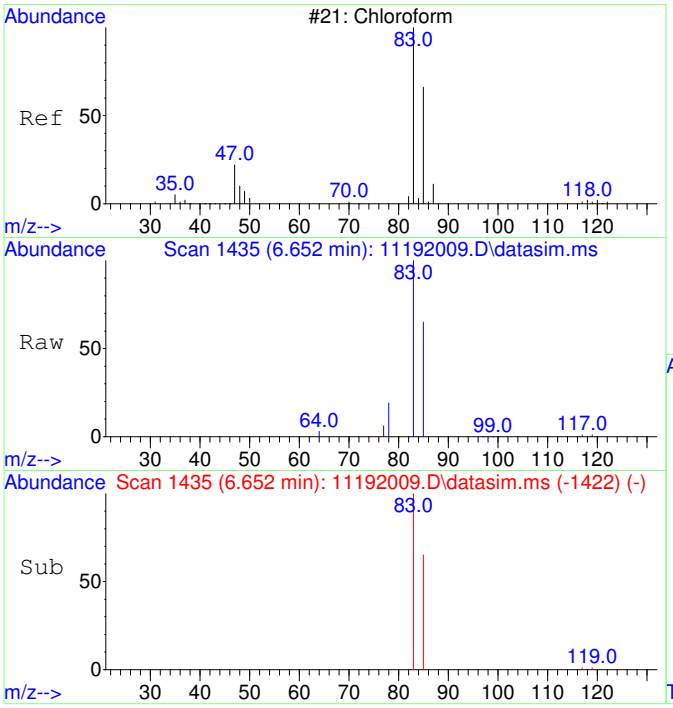


#5
cis-1,2-Dichloroethene
Concen: 15890.81 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 61 Resp: 566487

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.5	62.5

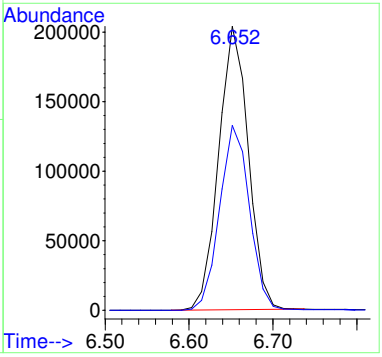


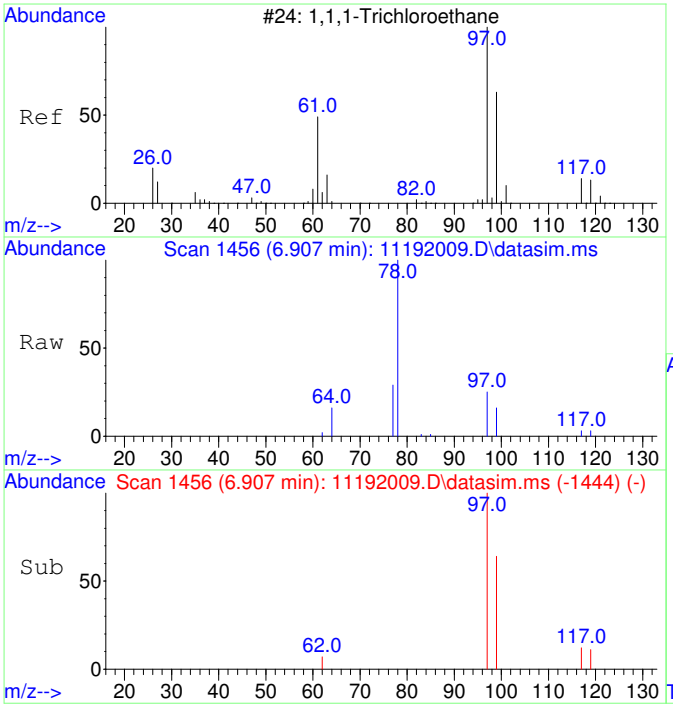


#6
Chloroform
Concen: 13659.81 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 83 Resp: 498417

Ion	Ratio	Lower	Upper
83	100		
85	65.4	35.1	95.1

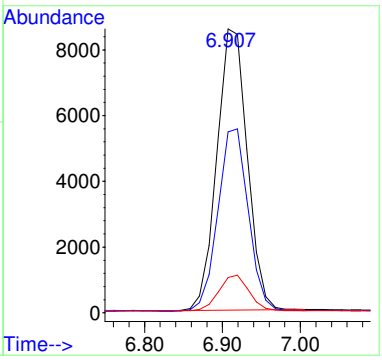


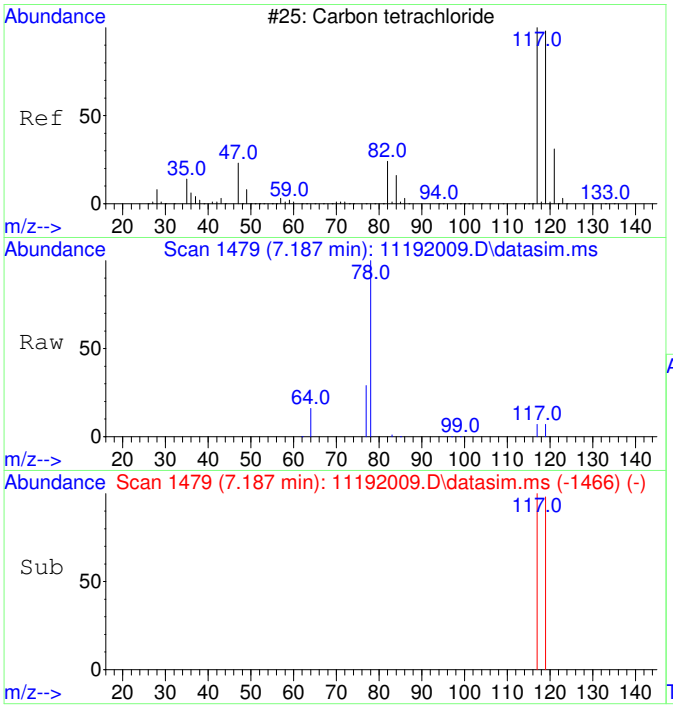


#7
1,1,1-Trichloroethane
Concen: 588.78 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 97 Resp: 23331

Ion	Ratio	Lower	Upper
97	100		
99	64.5	34.6	94.6
117	12.4	0.0	43.2

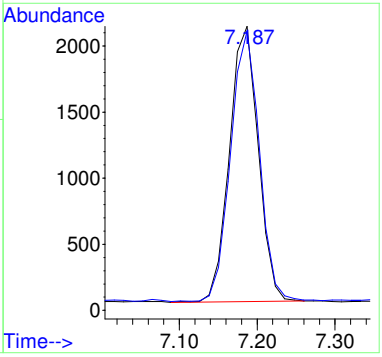


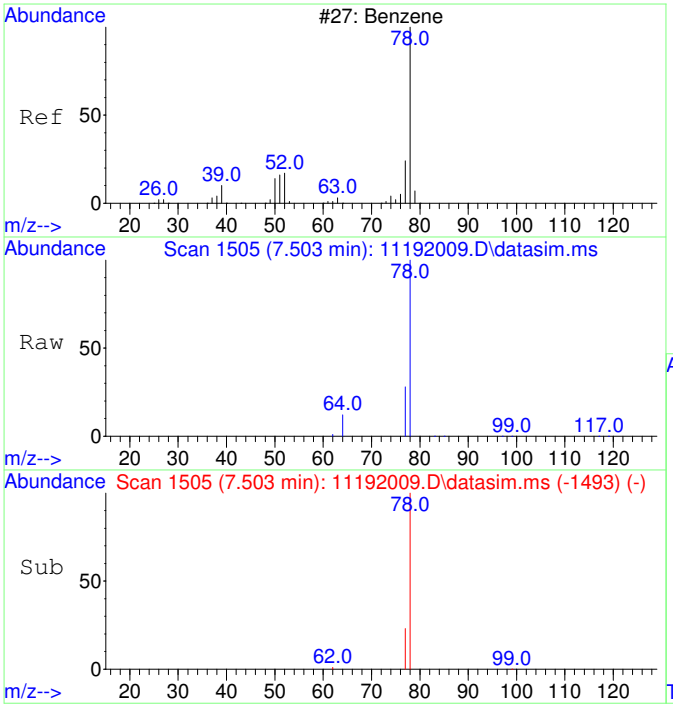


#8
Carbon tetrachloride
Concen: 143.77 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion:117 Resp: 5362

Ion	Ratio	Lower	Upper
117	100		
119	97.2	66.4	126.4

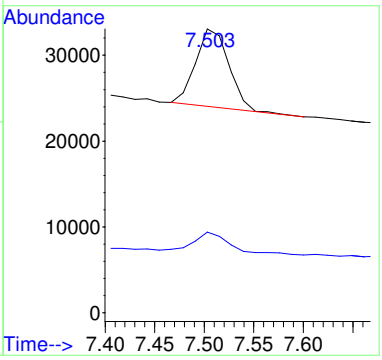


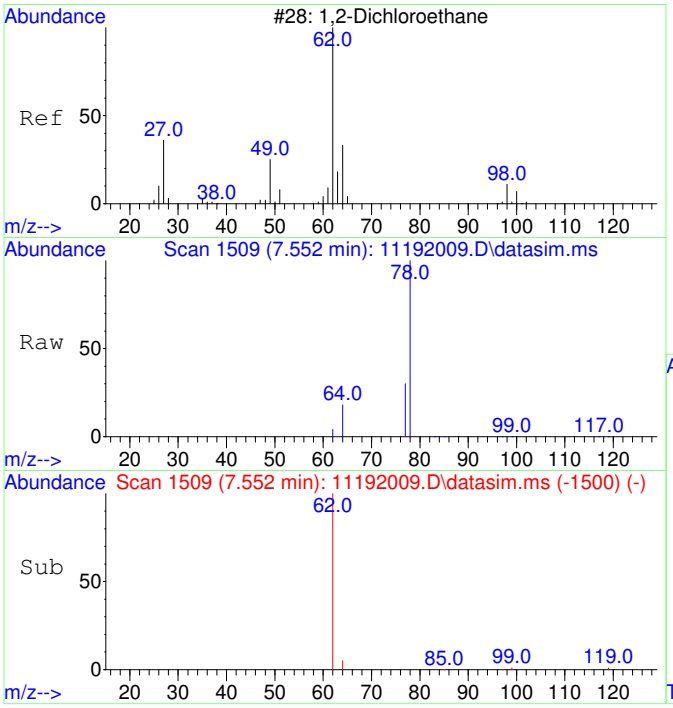


#9
Benzene
Concen: 205.58 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 78 Resp: 20540

Ion	Ratio	Lower	Upper
78	100		
77	36.4	0.0	53.2

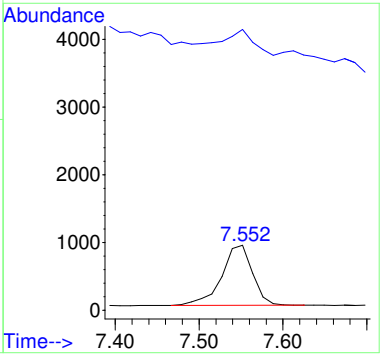


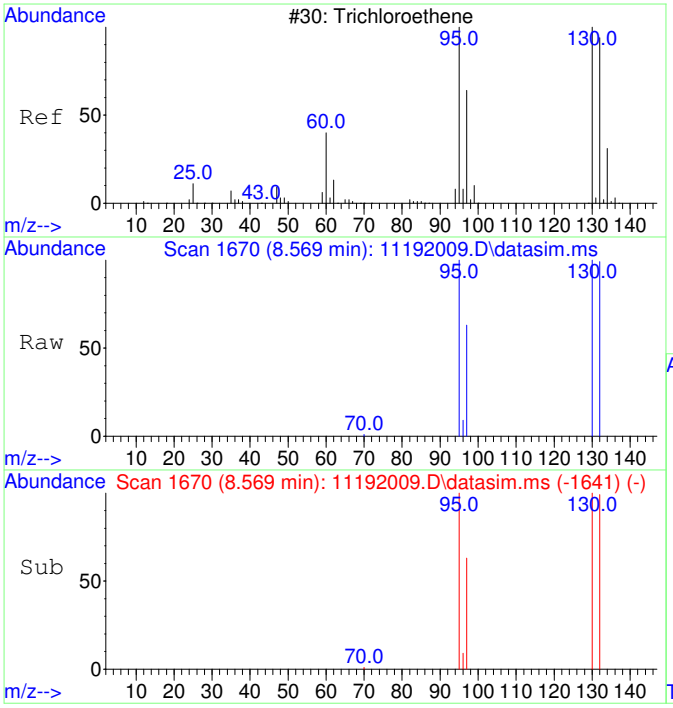


#10
1,2-Dichloroethane
Concen: 63.78 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 62 Resp: 2275

Ion	Ratio	Lower	Upper
62	100		
64	48.3	2.3	62.3

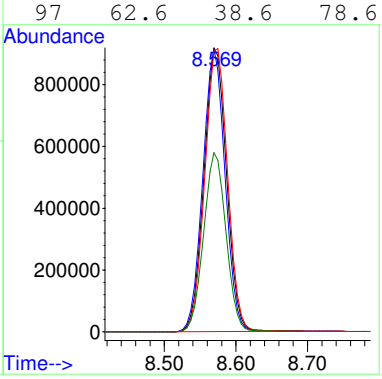


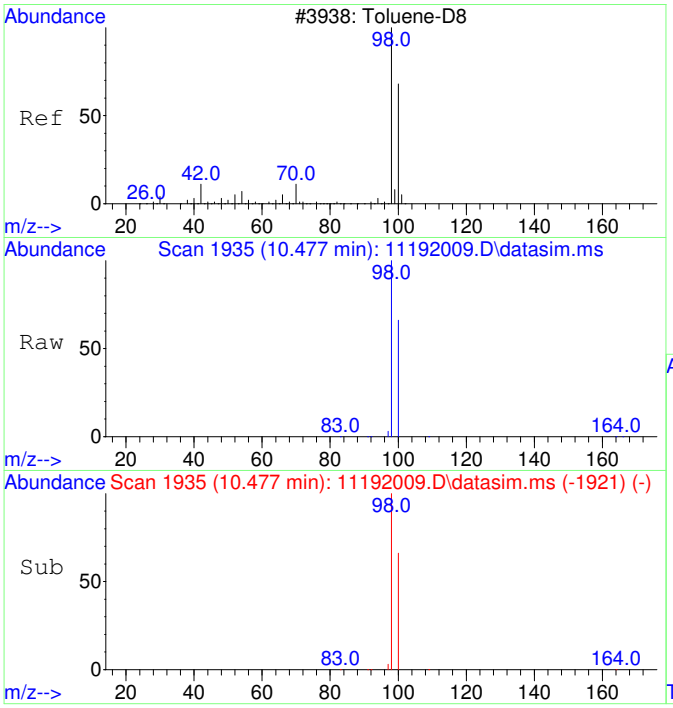


#11
Trichloroethene
Concen: 66689.74 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion:130 Resp: 2006207

Ion	Ratio	Lower	Upper
130	100		
95	98.1	60.7	120.7
132	100.7	76.0	116.0
97	62.6	38.6	78.6

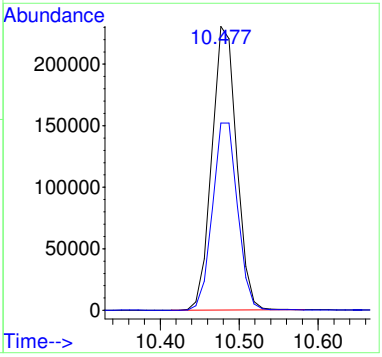


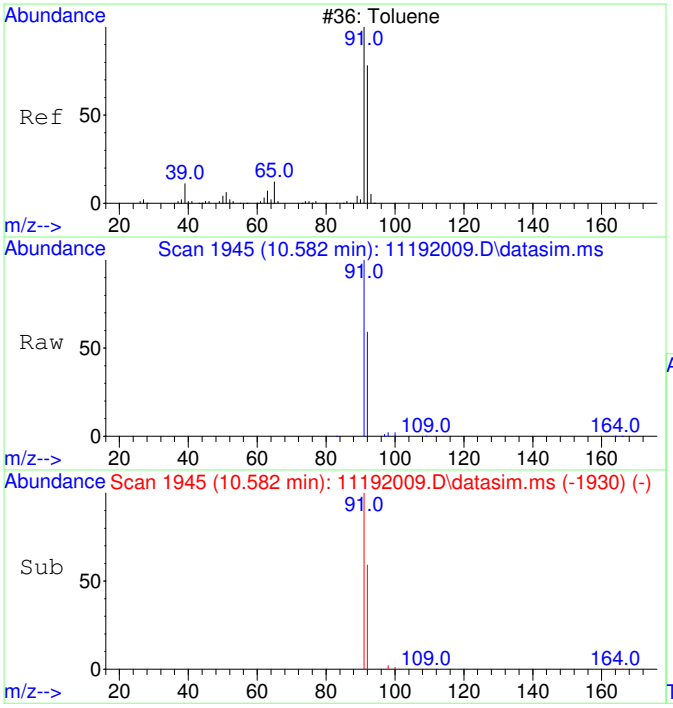


#12
Toluene-d8
Concen: 4349.58 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 98 Resp: 500715

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.1	97.1

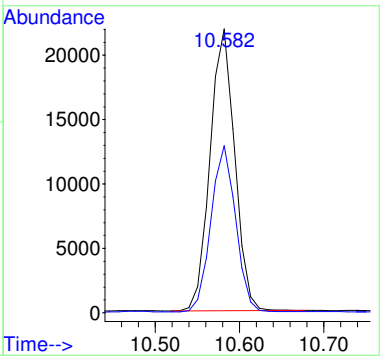


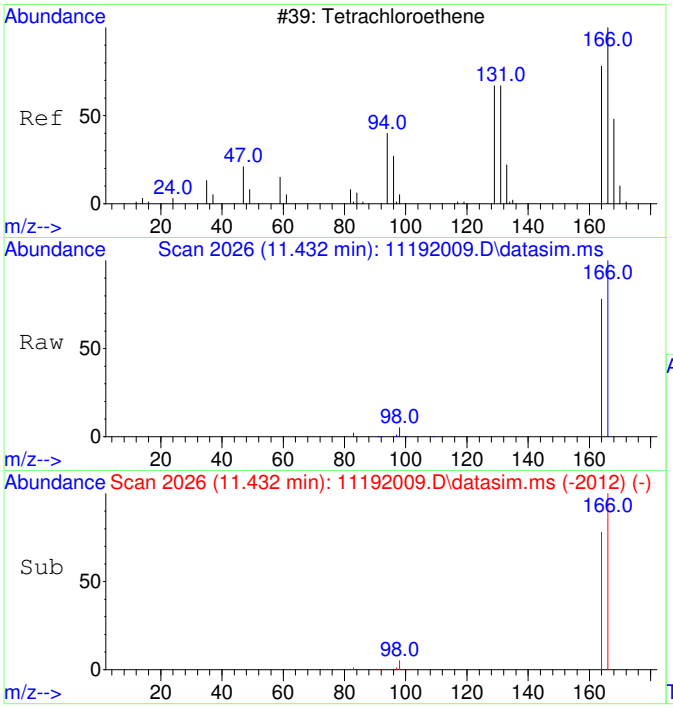


#13
Toluene
Concen: 303.63 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 91 Resp: 44562

Ion	Ratio	Lower	Upper
91	100		
92	58.7	29.9	89.9

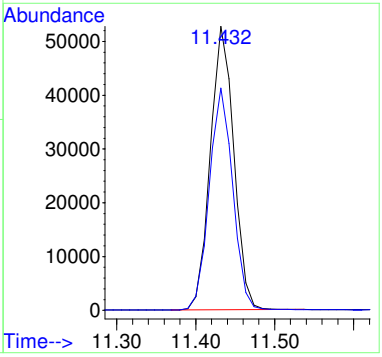


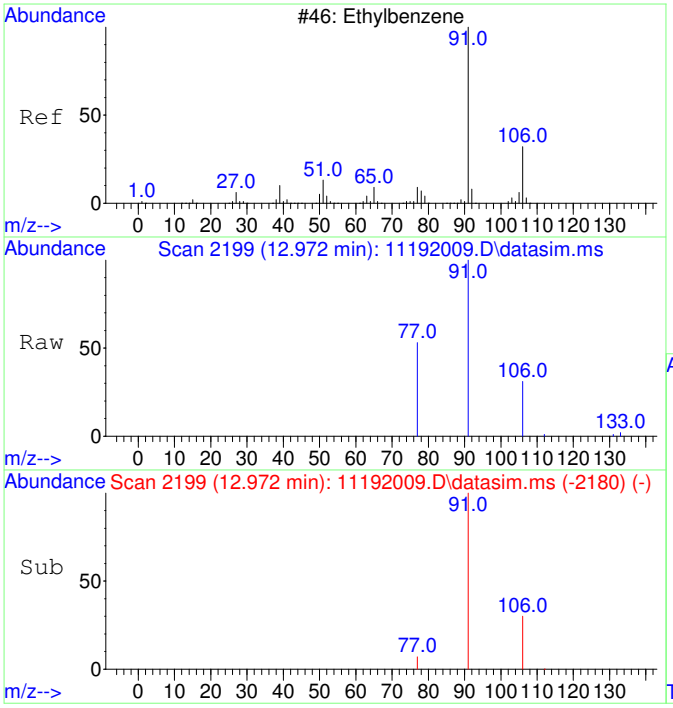


#15
Tetrachloroethene
Concen: 2565.51 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion:166 Resp: 108966

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

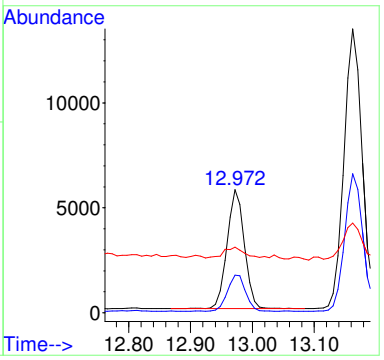


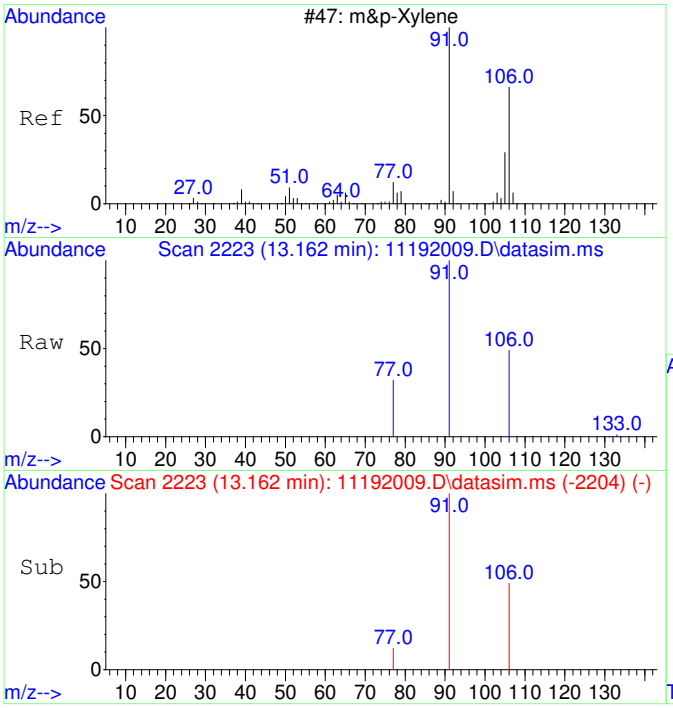


#18
Ethylbenzene
Concen: 61.82 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 91 Resp: 11044

Ion	Ratio	Lower	Upper
91	100		
106	31.8	3.0	63.0
77	11.2	0.0	38.2

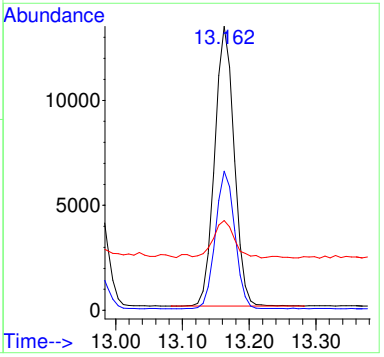


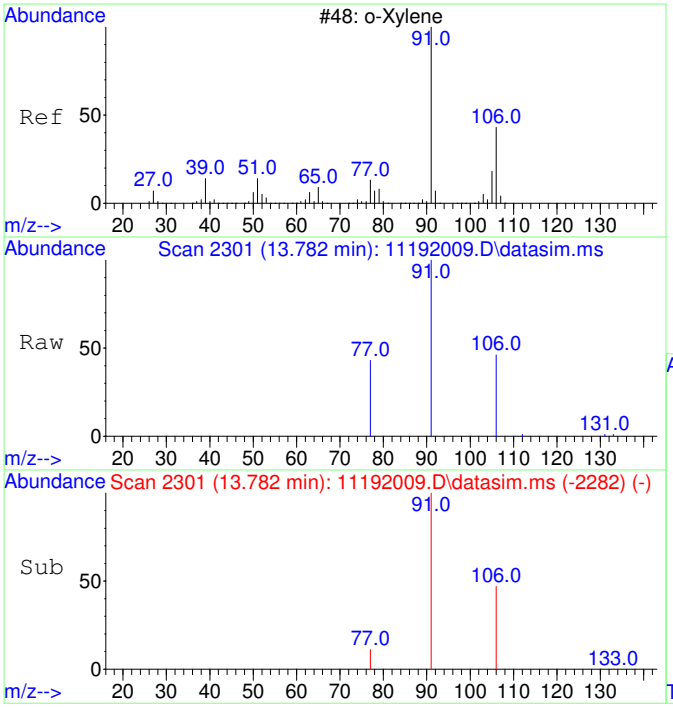


#19
m&p-Xylene
Concen: 193.50 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 91 Resp: 27017

Ion	Ratio	Lower	Upper
91	100		
106	48.9	22.2	82.2
77	14.3	0.0	42.4

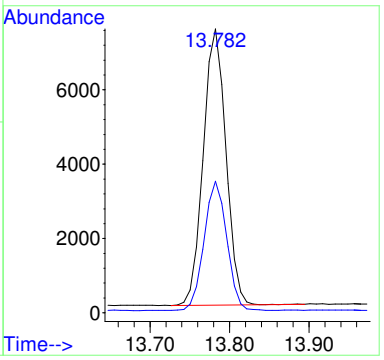


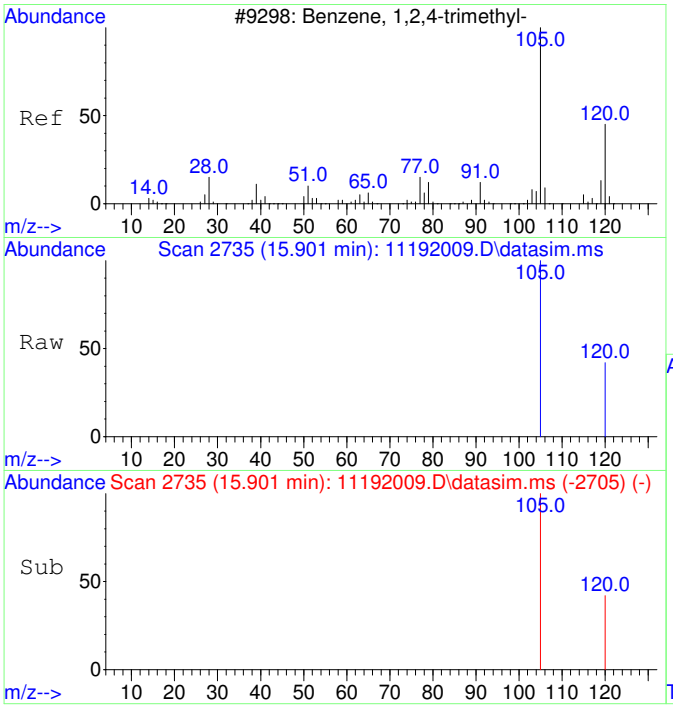


#20
o-Xylene
Concen: 98.48 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 91 Resp: 14690

Ion	Ratio	Lower	Upper
91	100		
106	46.8	19.2	79.2

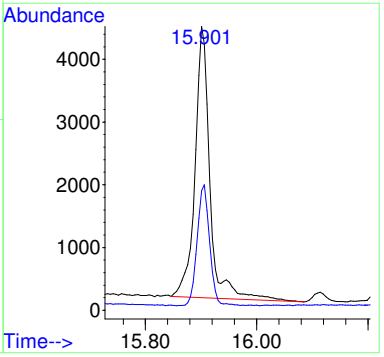


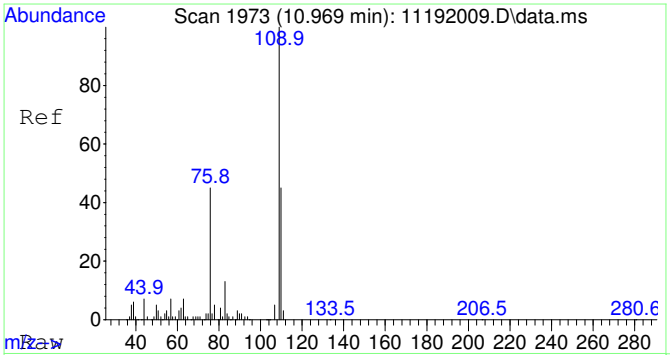


#23
1,2,4-Trimethylbenzene
Concen: 48.46 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion:105 Resp: 7991

Ion	Ratio	Lower	Upper
105	100		
120	37.8	17.2	77.2

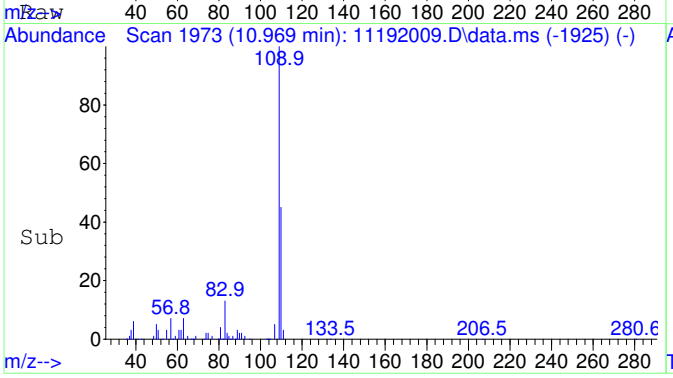


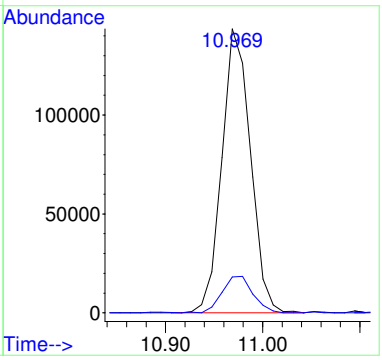


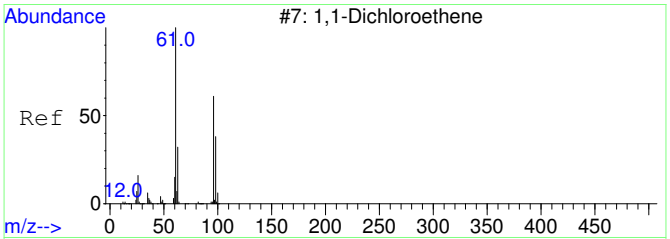
#25
2-Fluorotoluene SCAN
Concen: 5106.08 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

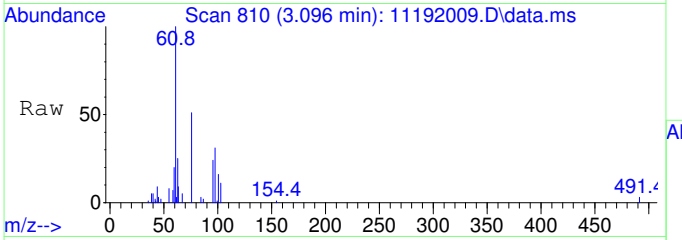
Tgt Ion:109 Resp: 292703

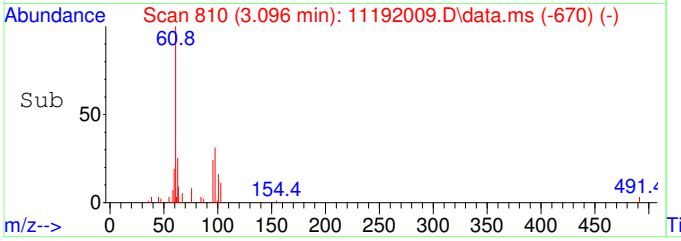
Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	43.8







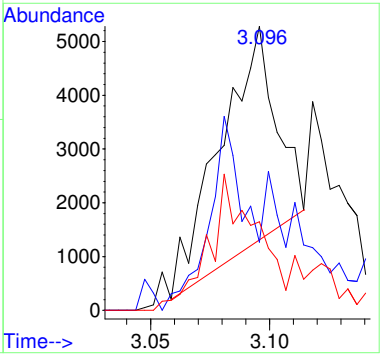


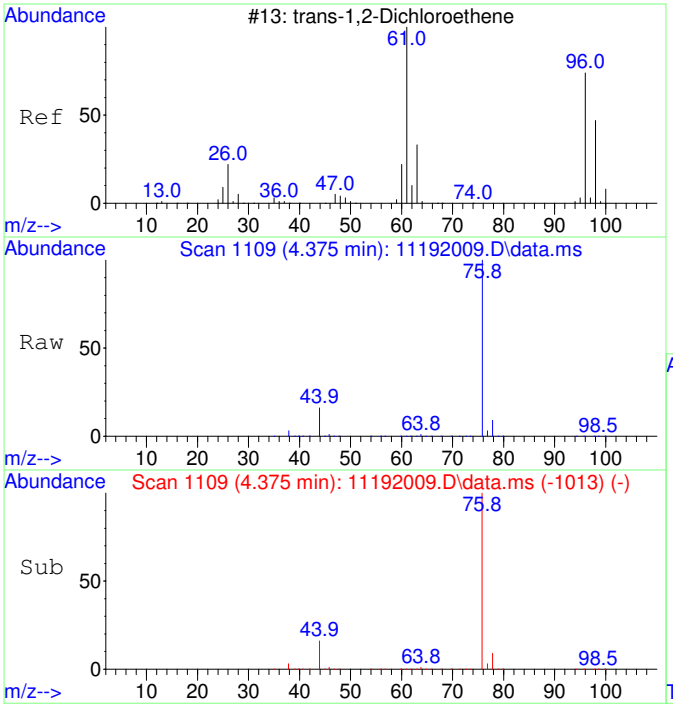


#26
1,1-Dichloroethene SCAN
Concen: 559.63 ug/L
RT: 3.096 min Scan# 810
Delta R.T. 0.019 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 61 Resp: 6813

Ion	Ratio	Lower	Upper
61	100		
96	32.5	33.1	93.1#
98	42.8	11.2	71.2

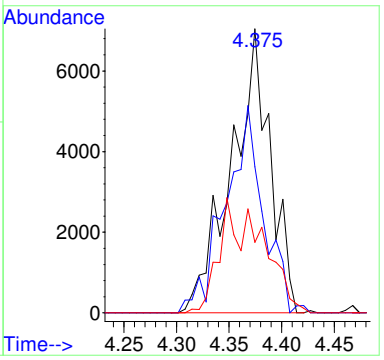


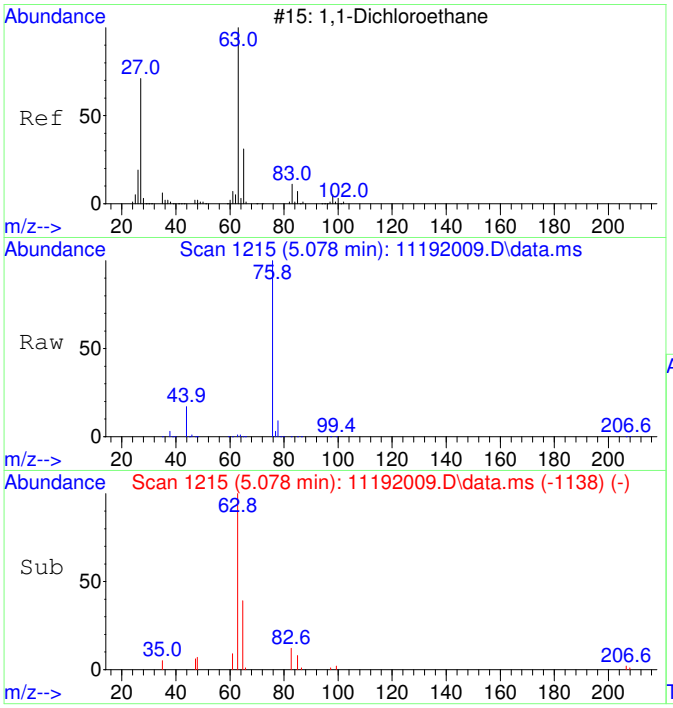


#27
trans-1,2-Dichloroethene SCAN
Concen: 1201.10 ug/L
RT: 4.375 min Scan# 1109
Delta R.T. 0.026 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 61 Resp: 18094

Ion	Ratio	Lower	Upper
61	100		
96	71.5	49.0	109.0
98	8.5	20.5	80.5#

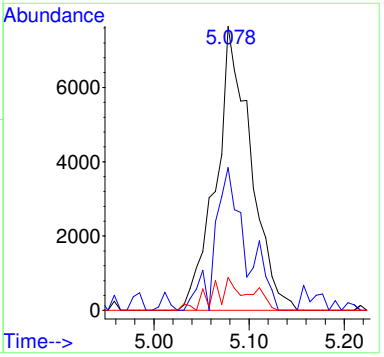


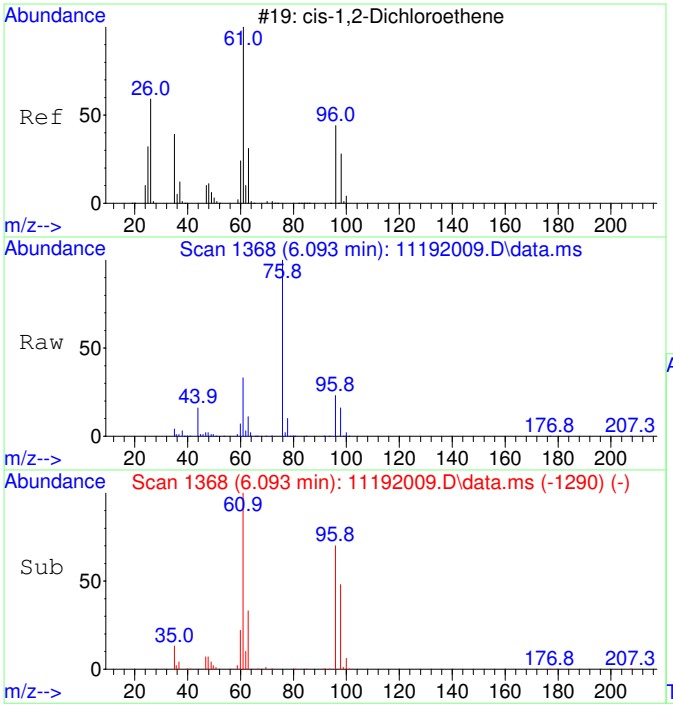


#28
1,1-Dichloroethane SCAN
Concen: 1117.63 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 63 Resp: 19485

Ion	Ratio	Lower	Upper
63	100		
65	44.9	1.3	61.3
83	11.6	0.0	45.9

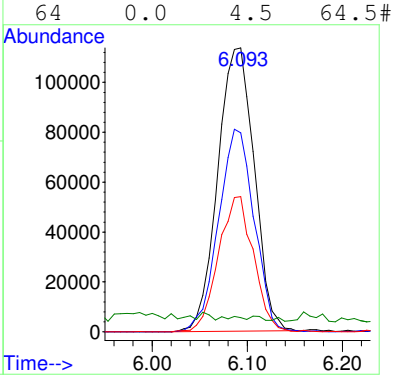


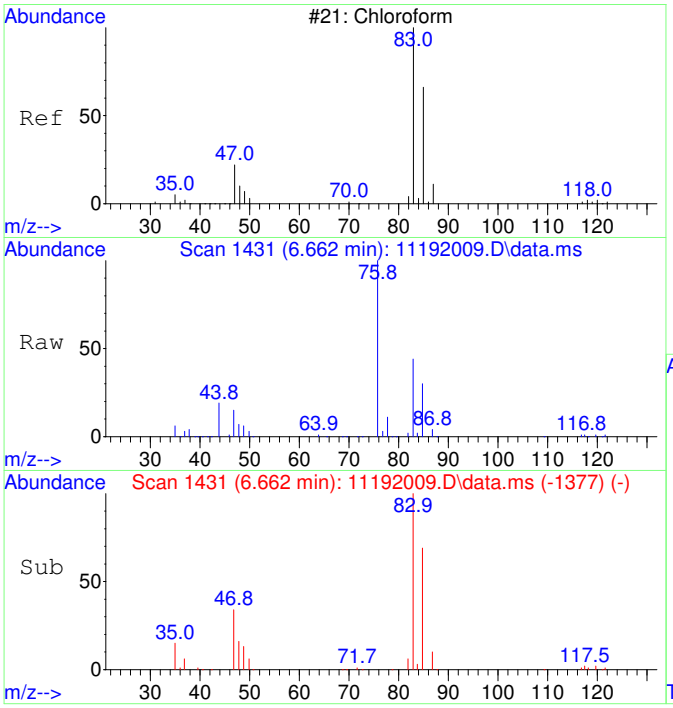


#29
cis-1,2-Dichloroethene SCAN
Concen: 16315.74 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 61 Resp: 304764

Ion	Ratio	Lower	Upper
61	100		
96	70.0	39.9	99.9
98	45.4	13.5	73.5
64	0.0	4.5	64.5#

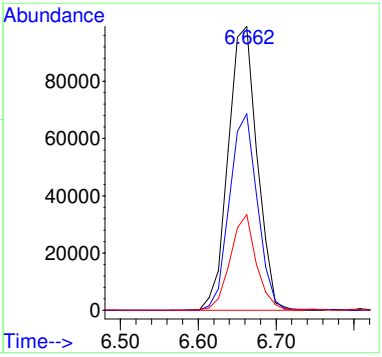


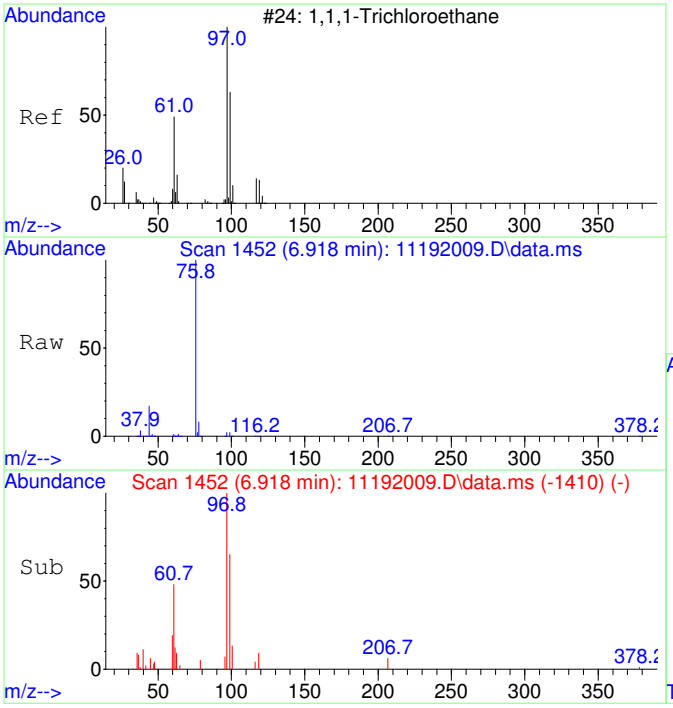


#30
Chloroform SCAN
Concen: 12725.23 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 83 Resp: 257815

Ion	Ratio	Lower	Upper
83	100		
85	67.0	34.6	94.6
47	30.8	0.0	53.4

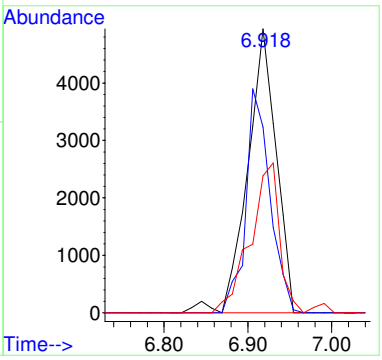


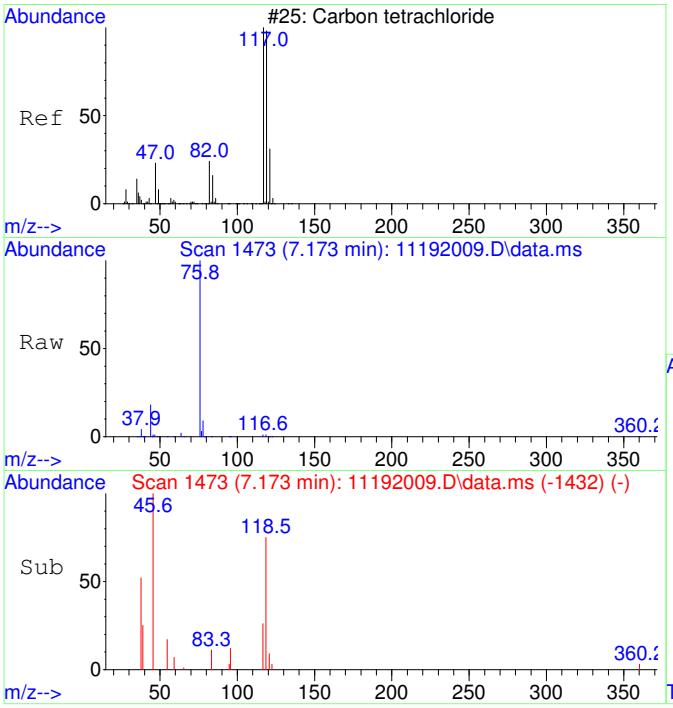


#31
1,1,1-Trichloroethane SCAN
Concen: 636.26 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 97 Resp: 11747

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	53.9	18.0	78.0

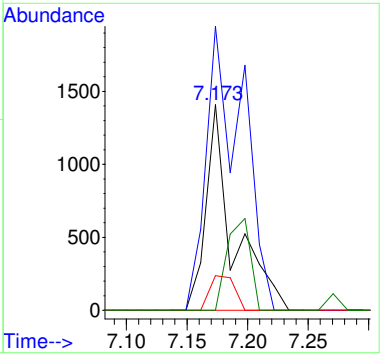


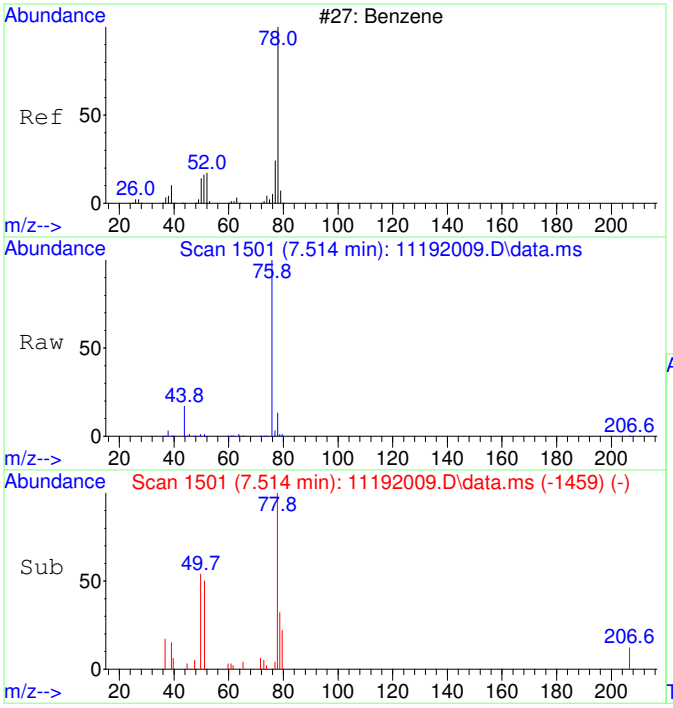


#32
Carbon tetrachloride SCAN
Concen: 114.44 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion:117 Resp: 2204

Ion	Ratio	Lower	Upper
117	100		
119	184.6	75.5	135.5#
121	15.2	0.0	58.8
82	0.0	0.0	59.2

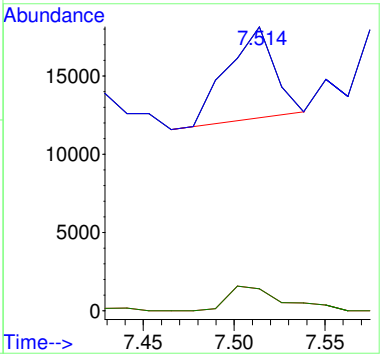


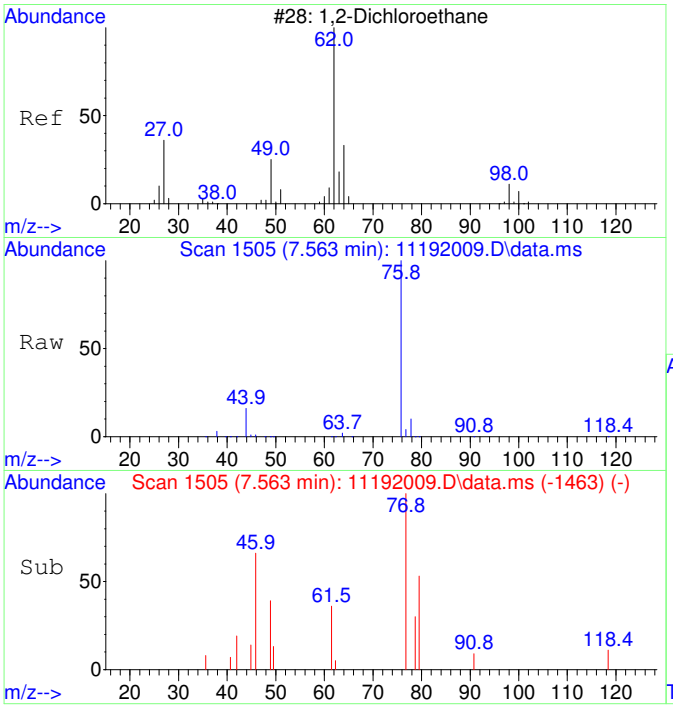


#33
Benzene SCAN
Concen: 214.03 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 78 Resp: 10880

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	30.3	0.0	47.9
51	30.3	0.0	44.1

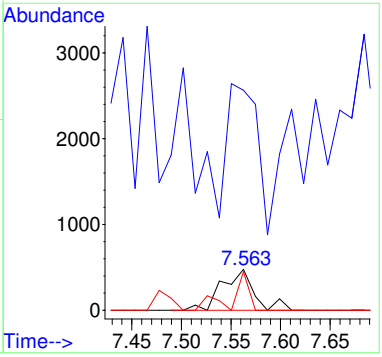


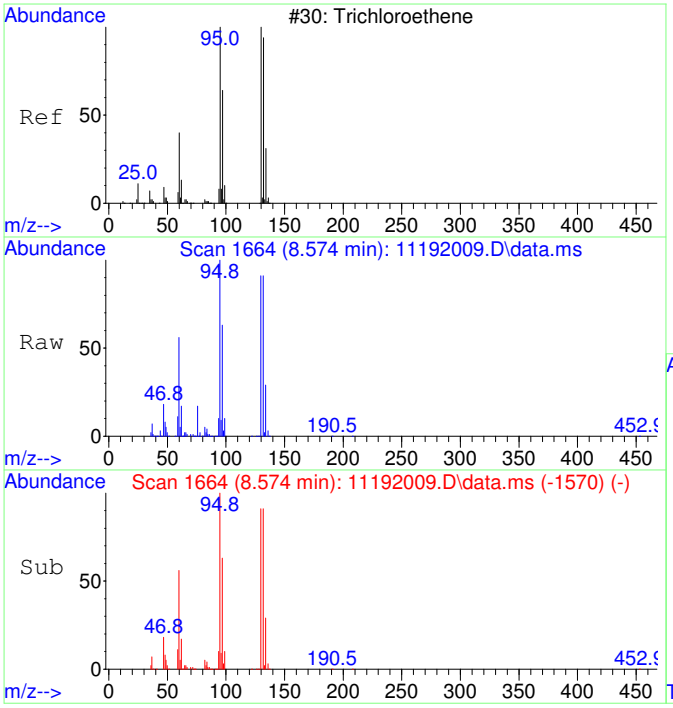


#34
1,2-Dichloroethane SCAN
Concen: 57.64 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 62 Resp: 1082

Ion	Ratio	Lower	Upper
62	100		
64	308.2	5.2	65.2#
49	49.3	3.9	63.9

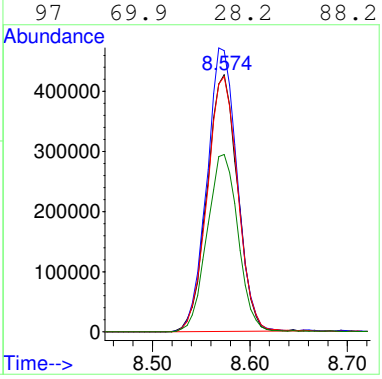


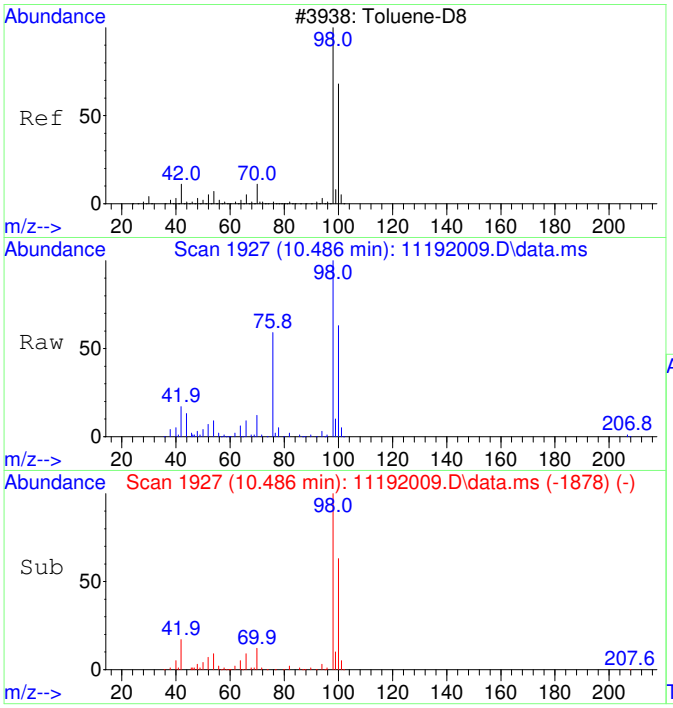


#35
Trichloroethene SCAN
Concen: 66576.58 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion:130 Resp: 930055

Ion	Ratio	Lower	Upper
130	100		
95	108.8	60.5	120.5
132	100.0	59.6	119.6
97	69.9	28.2	88.2

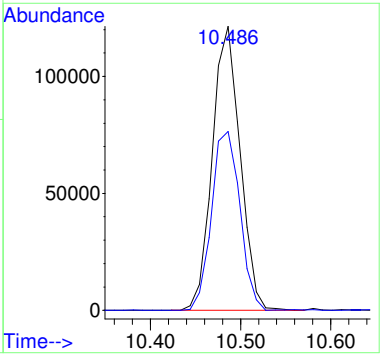


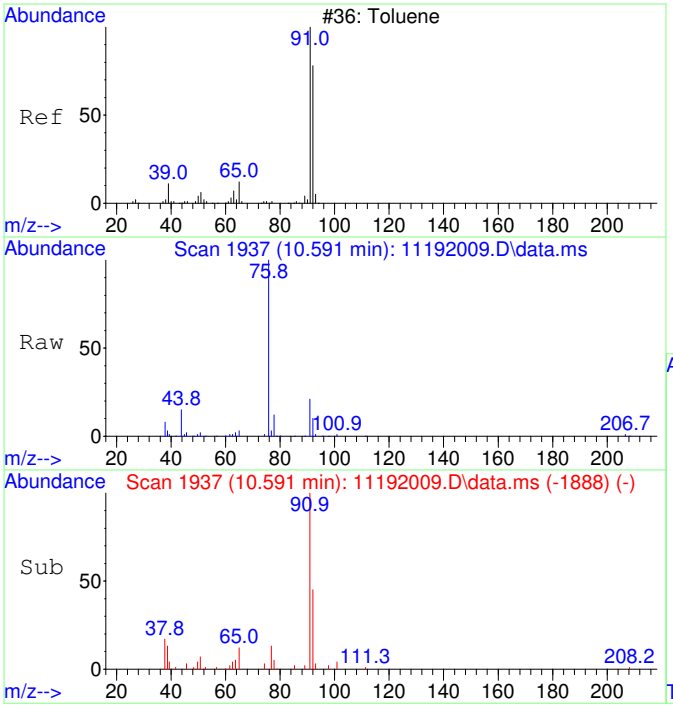


#36
Toluene-d8 SCAN
Concen: 4641.33 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 98 Resp: 260200

Ion	Ratio	Lower	Upper
98	100		
100	64.0	40.0	100.0

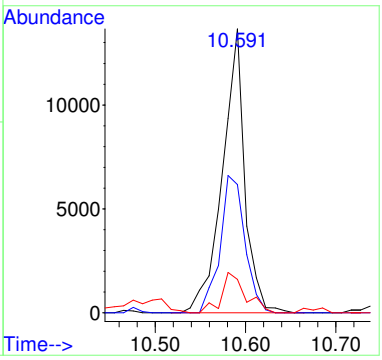


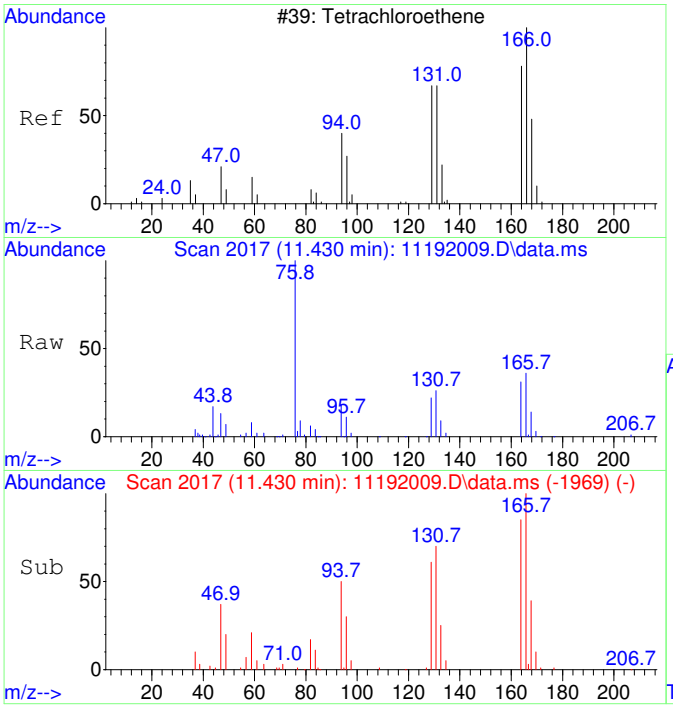


#37
Toluene SCAN
Concen: 329.35 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 91 Resp: 23646

Ion	Ratio	Lower	Upper
91	100		
92	53.6	28.3	88.3
65	15.2	0.0	41.0

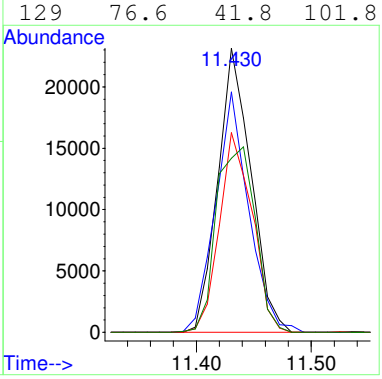


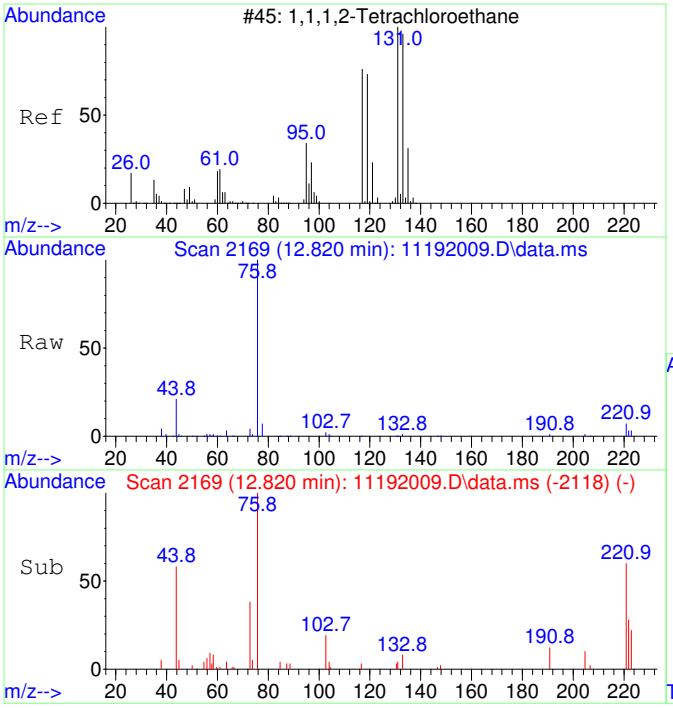


#39
Tetrachloroethene SCAN
Concen: 2705.56 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion:166 Resp: 46667

Ion	Ratio	Lower	Upper
166	100		
164	84.3	50.9	110.9
131	69.3	38.7	98.7
129	76.6	41.8	101.8

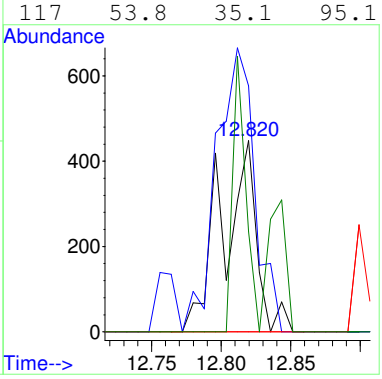


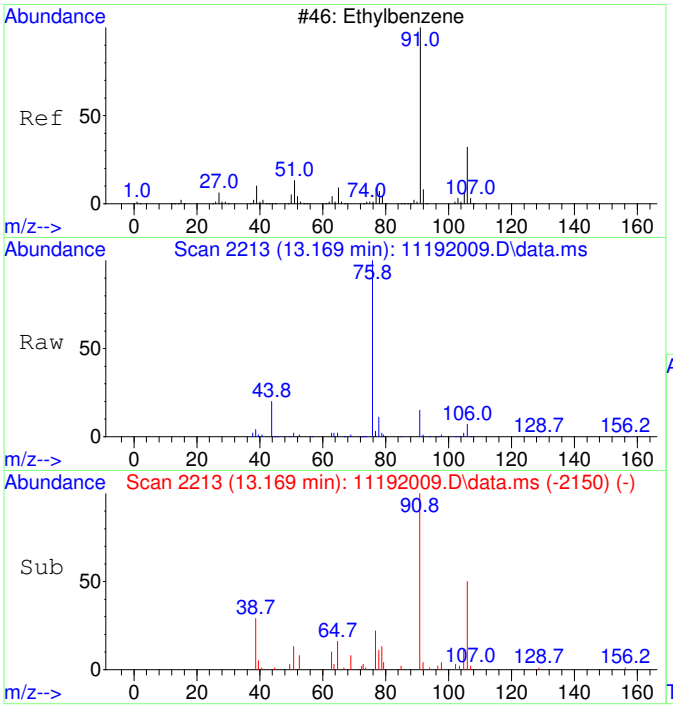


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 43.02 ug/L
RT: 12.820 min Scan# 2169
Delta R.T. -0.095 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion:131 Resp: 781

Ion	Ratio	Lower	Upper
131	100		
133	162.9	66.9	126.9#
119	0.0	40.4	100.4#
117	53.8	35.1	95.1

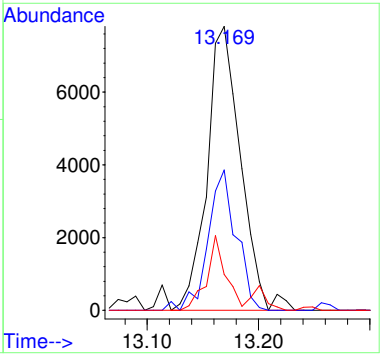


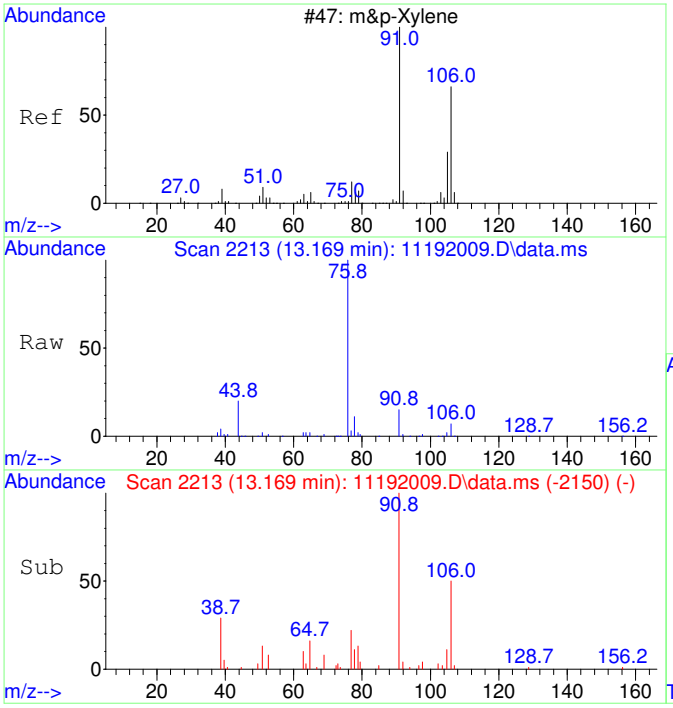


#42
Ethylbenzene SCAN
Concen: 125.42 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 91 Resp: 16405

Ion	Ratio	Lower	Upper
91	100		
106	41.5	23.1	83.1
51	13.8	0.0	40.1

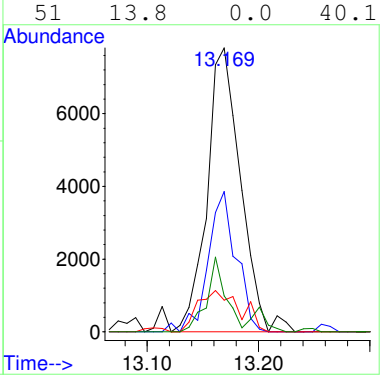


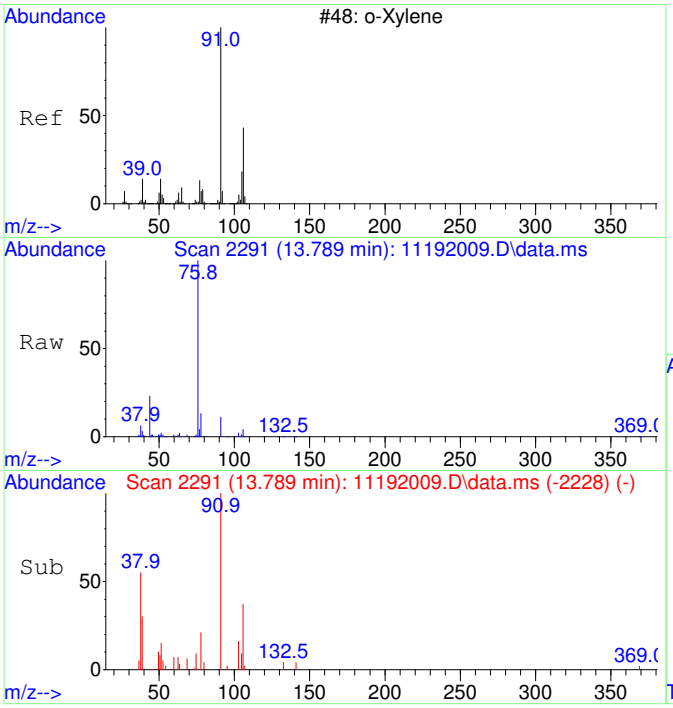


#43
m&p-Xylene SCAN
Concen: 125.42 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 91 Resp: 16405

Ion	Ratio	Lower	Upper
91	100		
106	41.5	23.1	83.1
105	18.3	0.0	54.7
51	13.8	0.0	40.1

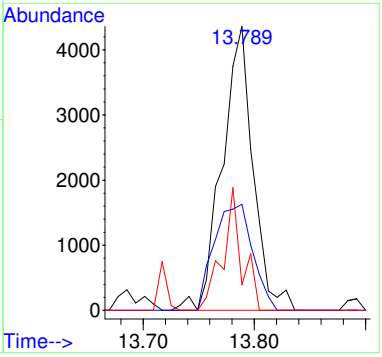


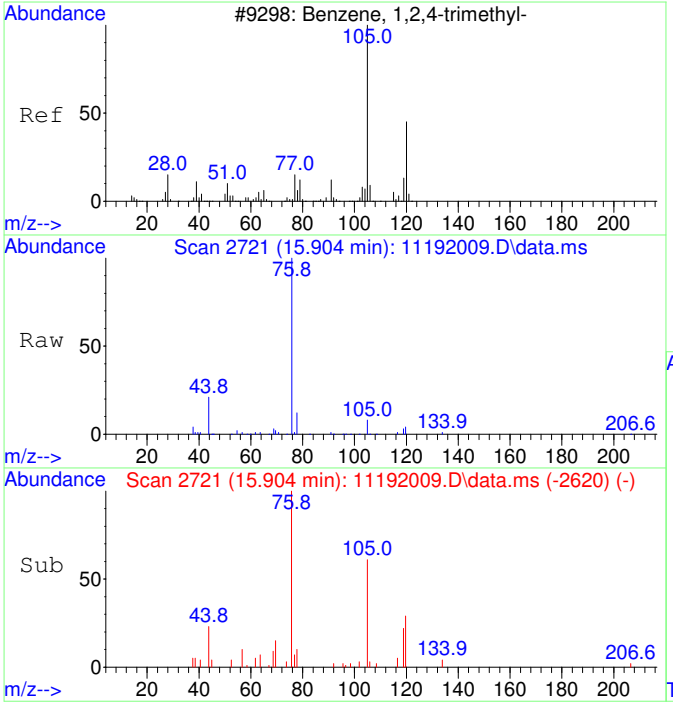


#44
o-Xylene SCAN
Concen: 120.16 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion: 91 Resp: 8413

Ion	Ratio	Lower	Upper
91	100		
106	46.6	18.0	78.0
105	26.8	0.0	56.6

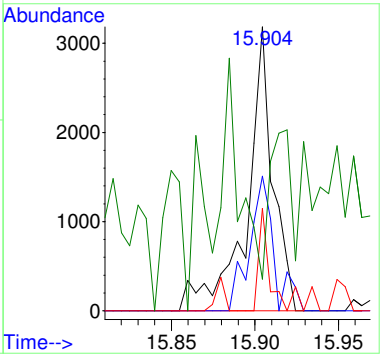




#47
1,2,4-Trimethylbenzene SCAN
Concen: 45.62 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11192009.D
Acq: 19 Nov 2020 11:31

Tgt Ion:105 Resp: 3444

Ion	Ratio	Lower	Upper
105	100		
120	44.4	16.9	76.9
119	13.6	0.0	41.9
77	0.0	0.0	42.3



2011017-20

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192010.D
Acq On : 19 Nov 2020 11:55
InstName : AG5975C
Operator : TD
Sample : 2011017-20
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 23 08:14:17 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

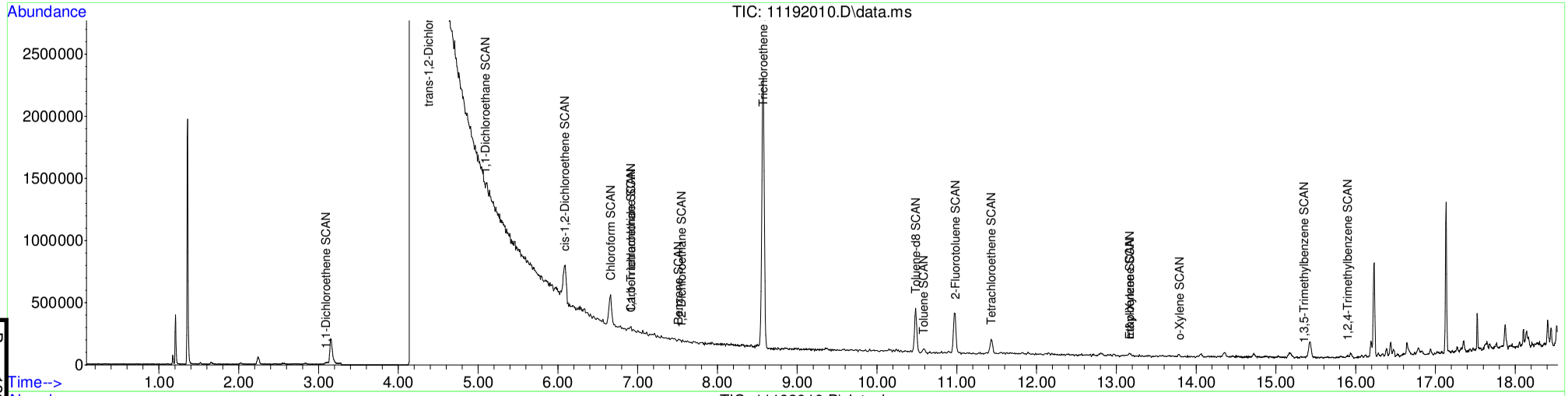
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	593258	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	507061	4366.07 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.32%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.093	61	22265	939.86 ug/L	85
3] trans-1,2-Dichloroethene	4.369	61	27234	995.02 ug/L	100
4] 1,1-Dichloroethane	5.079	63	28457	835.23 ug/L	98
5] cis-1,2-Dichloroethene	6.088	61	474540	13194.79 ug/L	99
6] Chloroform	6.652	83	437722	11891.15 ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	19246	481.43 ug/L	99
8] Carbon tetrachloride	7.187	117	4995	132.75 ug/L	99
9] Benzene	7.503	78	20247	200.87 ug/L	85
10] 1,2-Dichloroethane	7.552	62	1929	53.61 ug/L #	16
11] Trichloroethene	8.569	130	1621328	53422.94 ug/L OC	94
13] Toluene	10.582	91	44666	301.67 ug/L	98
15] Tetrachloroethene	11.432	166	86534	2019.50 ug/L	100
18] Ethylbenzene	12.972	91	12289	68.19 ug/L	97
19] m&p-Xylene	13.162	91	34068	241.86 ug/L	96
20] o-Xylene	13.782	91	15235	101.24 ug/L	96
22] 1,3,5-Trimethylbenzene	15.350	105	3705	23.13 ug/L	92
23] 1,2,4-Trimethylbenzene	15.901	105	11551	69.43 ug/L	87
25) 2-Fluorotoluene SCAN	10.979	109	283419	4900.75 ug/L	96
26) 1,1-Dichloroethene SCAN	3.085	61	11818	962.24 ug/L #	42
27) trans-1,2-Dichloroethe...	4.375	61	17714	1165.56 ug/L	74
28) 1,1-Dichloroethane SCAN	5.091	63	16804	955.39 ug/L	85
29) cis-1,2-Dichloroethene...	6.086	61	259279	13758.91 ug/L #	85
30) Chloroform SCAN	6.662	83	218130	10672.02 ug/L	92
31) 1,1,1-Trichloroethane ...	6.918	97	10055	539.83 ug/L	85
32) Carbon tetrachloride SCAN	6.918	117	1483	76.33 ug/L	89
33) Benzene SCAN	7.514	78	22052	429.99 ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	851	44.94 ug/L #	1
35) Trichloroethene SCAN	8.574	130	756347	53667.02 ug/L	86
36) Toluene-d8 SCAN	10.486	98	260719	4609.79 ug/L	96
37) Toluene SCAN	10.580	91	25887	357.40 ug/L #	90
39) Tetrachloroethene SCAN	11.430	166	37659	2164.16 ug/L	96
42) Ethylbenzene SCAN	13.169	91	17865	135.39 ug/L	85
43) m&p-Xylene SCAN	13.169	91	17865	135.39 ug/L	86
44) o-Xylene SCAN	13.789	91	9393	132.98 ug/L	84
46) 1,3,5-Trimethylbenzene...	15.353	105	1733	23.28 ug/L	94
47) 1,2,4-Trimethylbenzene...	15.899	105	5341	70.12 ug/L #	84

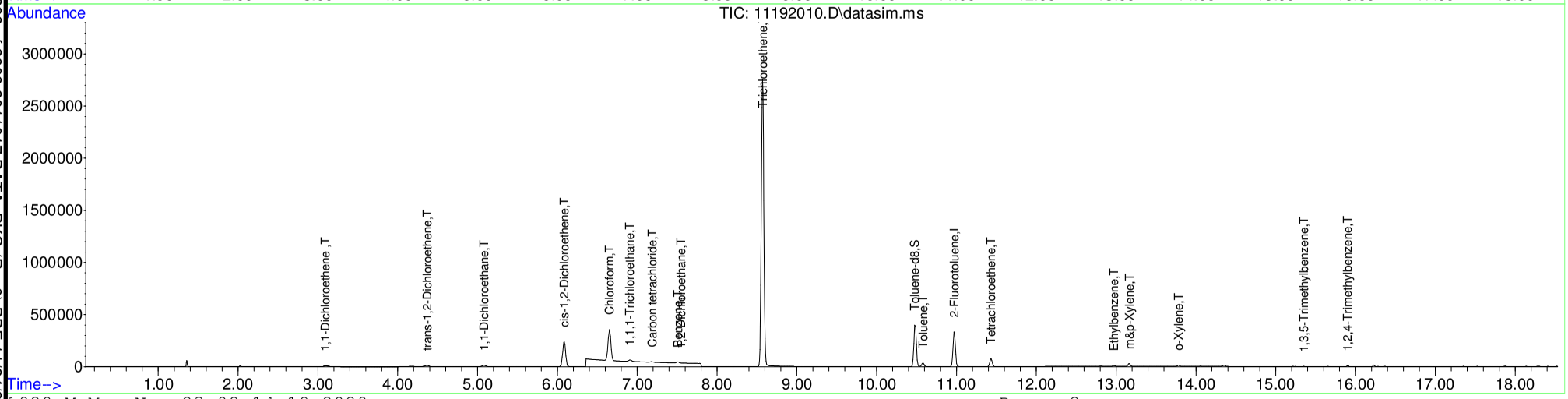
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192010.D
Acq On : 19 Nov 2020 11:55
InstName : AG5975C
Operator : TD
Sample : 2011017-20
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 23 08:14:17 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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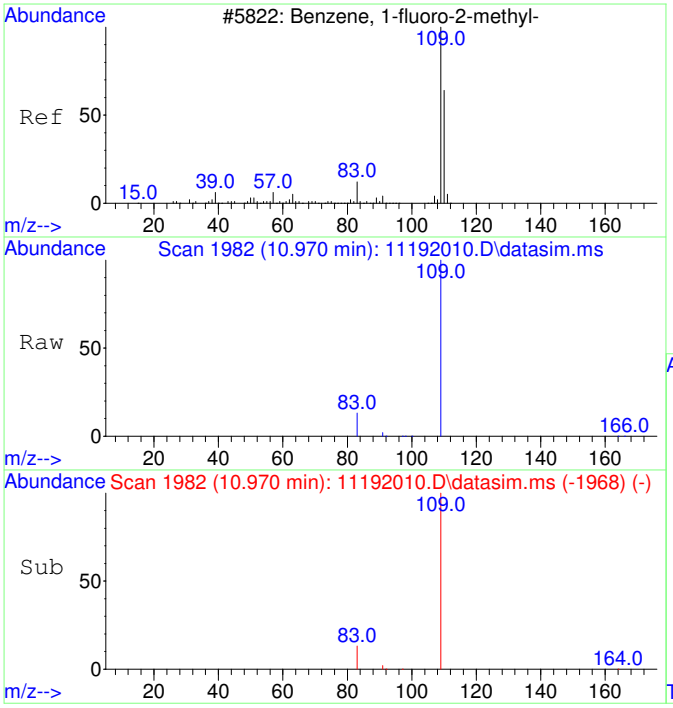
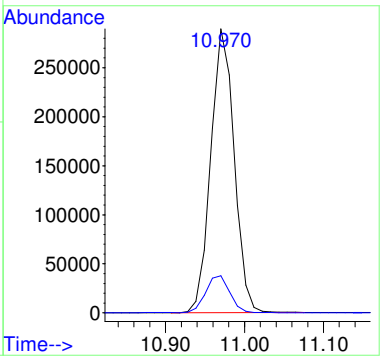
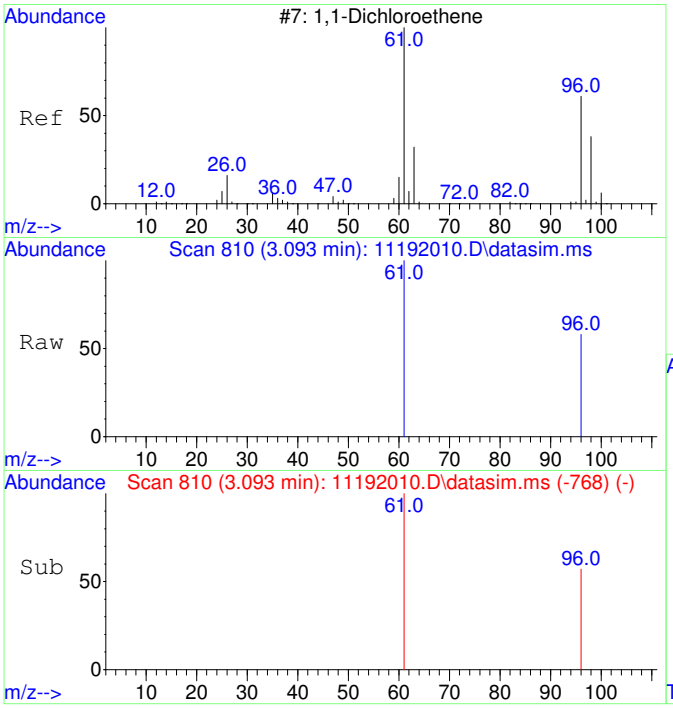


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:109 Resp: 593258

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

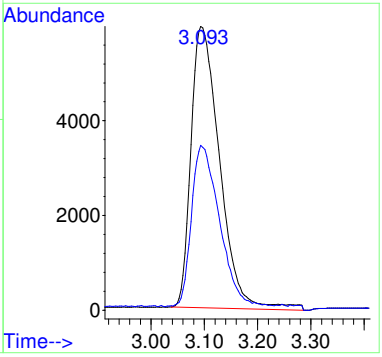




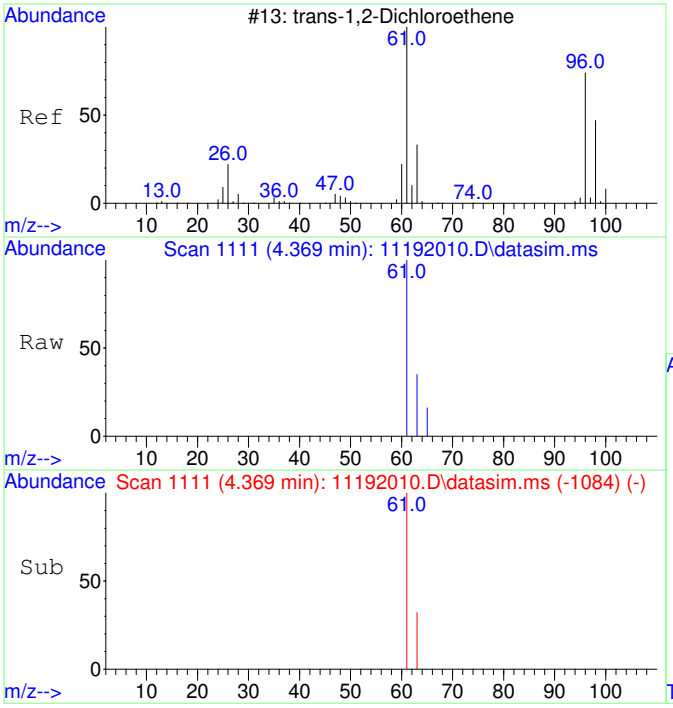
#2
1,1-Dichloroethene
Concen: 939.86 ug/L
RT: 3.093 min Scan# 810
Delta R.T. 0.007 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 61 Resp: 22265

Ion	Ratio	Lower	Upper
61	100		
96	55.2	37.2	97.2



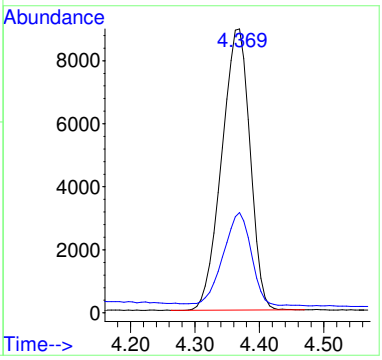
Before MI:
IMPROPER
BASELINE

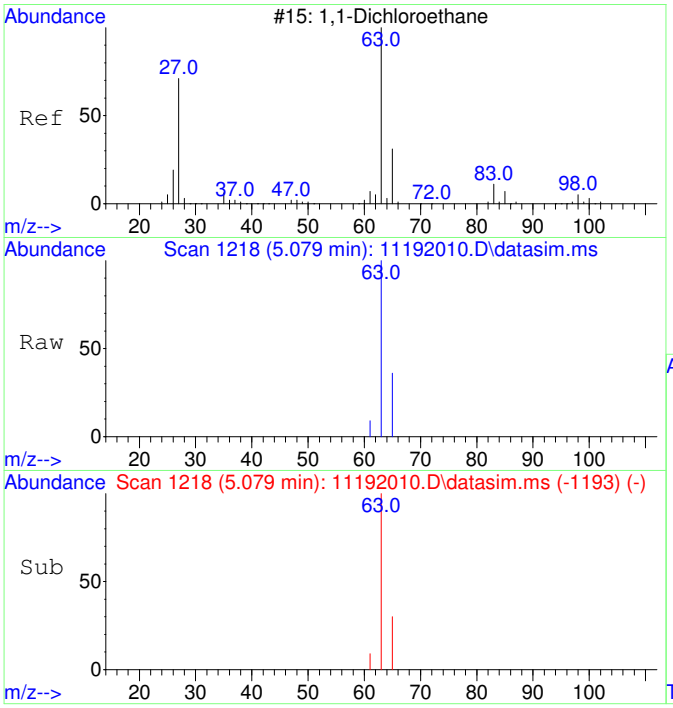


#3
trans-1,2-Dichloroethene
Concen: 995.02 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. 0.026 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 61 Resp: 27234

Ion	Ratio	Lower	Upper
61	100		
63	32.6	2.4	62.4

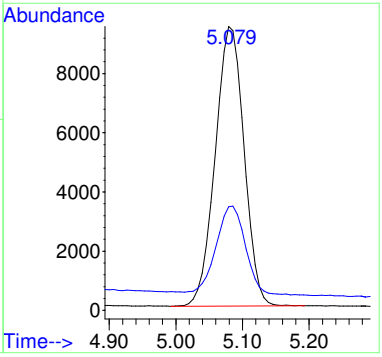


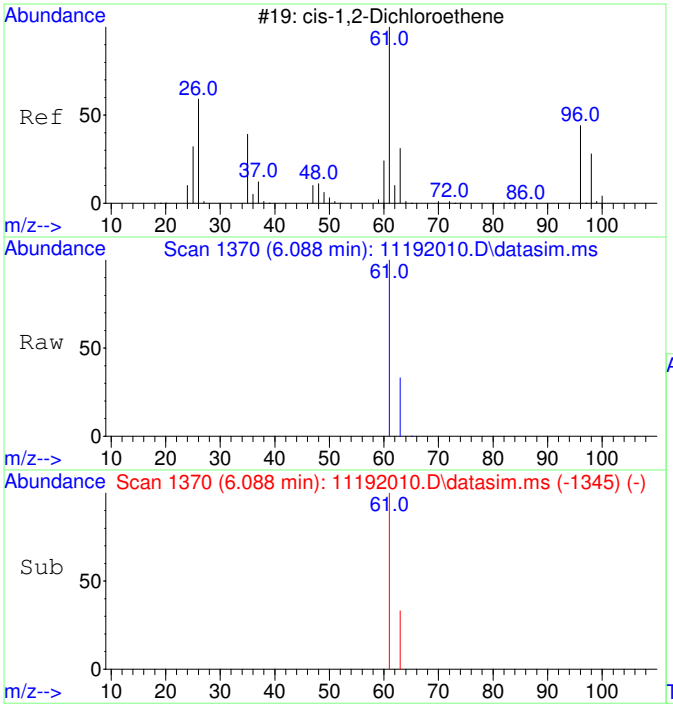


#4
1,1-Dichloroethane
Concen: 835.23 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 63 Resp: 28457

Ion	Ratio	Lower	Upper
63	100		
65	32.6	1.8	61.8

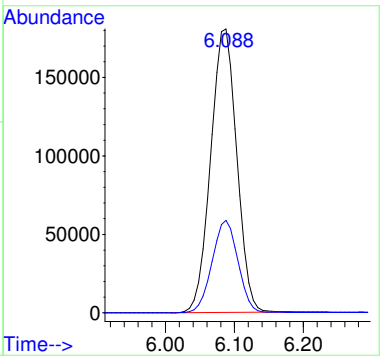


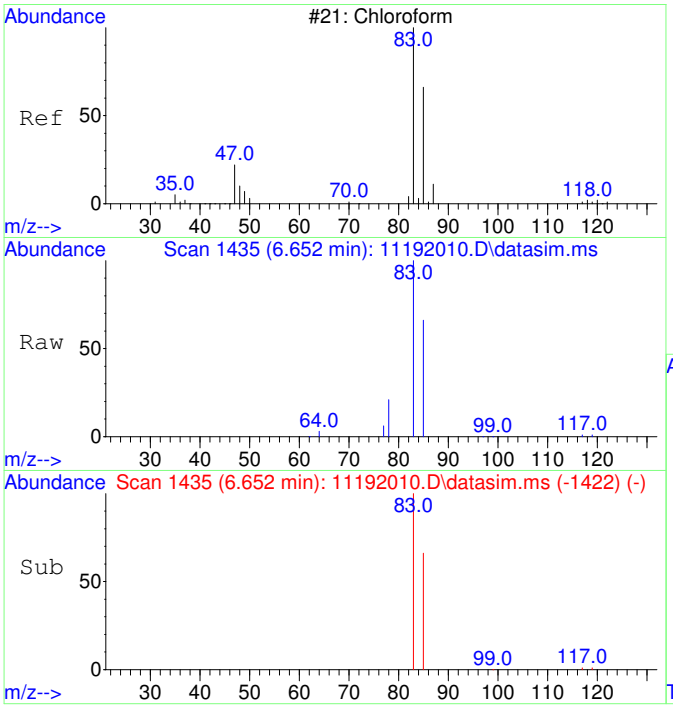


#5
cis-1,2-Dichloroethene
Concen: 13194.79 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 61 Resp: 474540

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.5	62.5

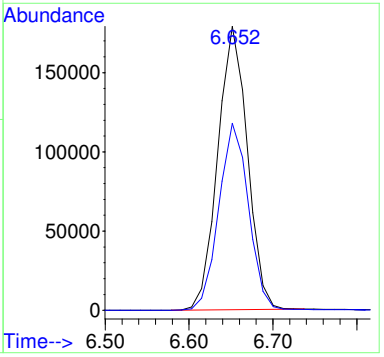


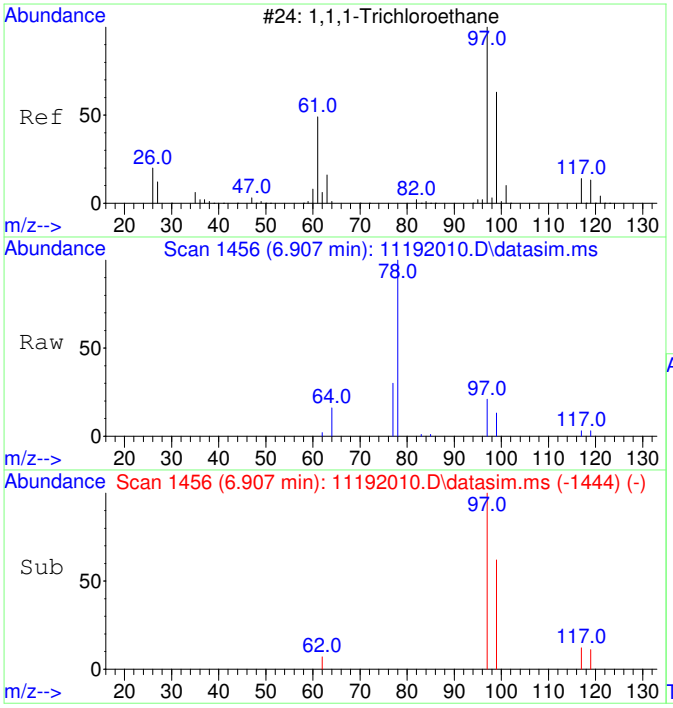


#6
Chloroform
Concen: 11891.15 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 83 Resp: 437722

Ion	Ratio	Lower	Upper
83	100		
85	65.7	35.1	95.1

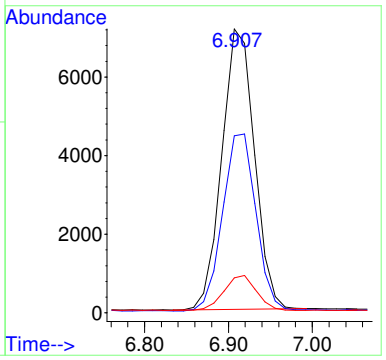


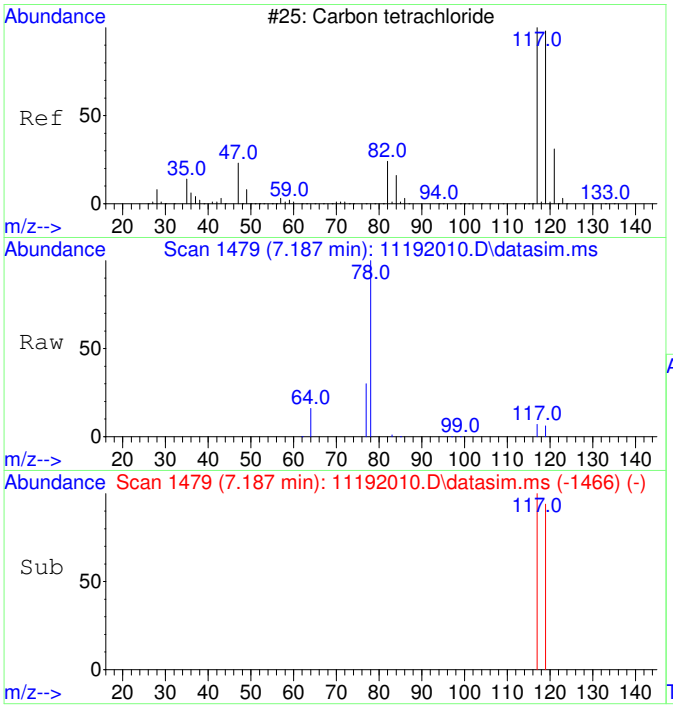


#7
1,1,1-Trichloroethane
Concen: 481.43 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 97 Resp: 19246

Ion	Ratio	Lower	Upper
97	100		
99	64.1	34.6	94.6
117	12.4	0.0	43.2

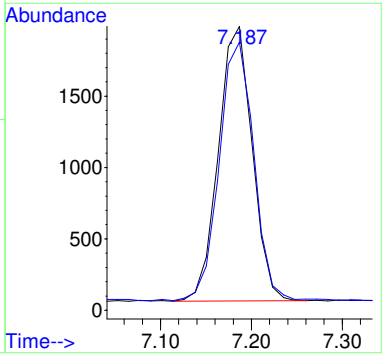


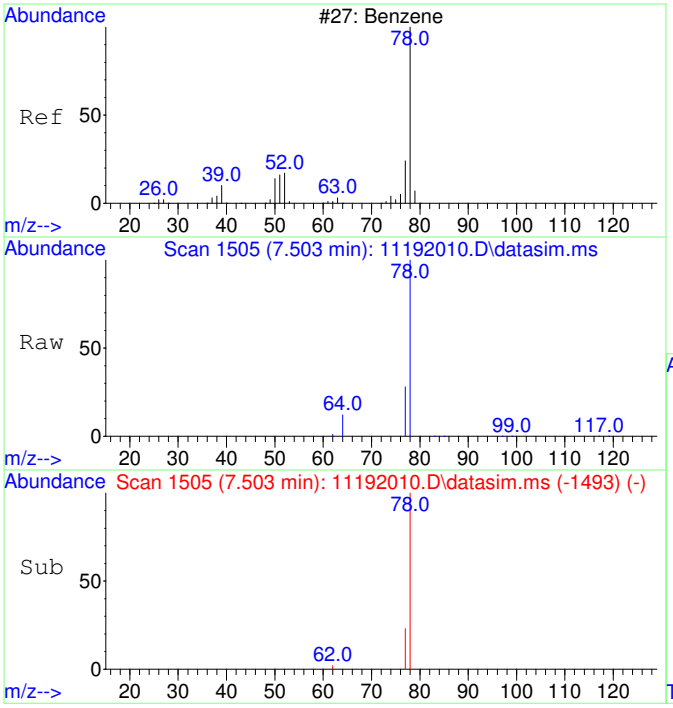


#8
Carbon tetrachloride
Concen: 132.75 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:117 Resp: 4995

Ion	Ratio	Lower	Upper
117	100		
119	95.0	66.4	126.4

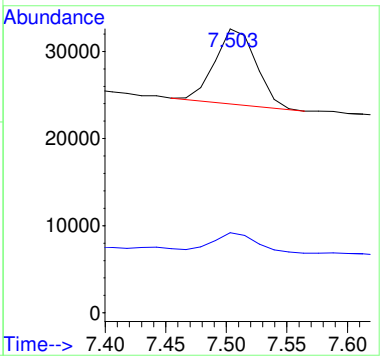


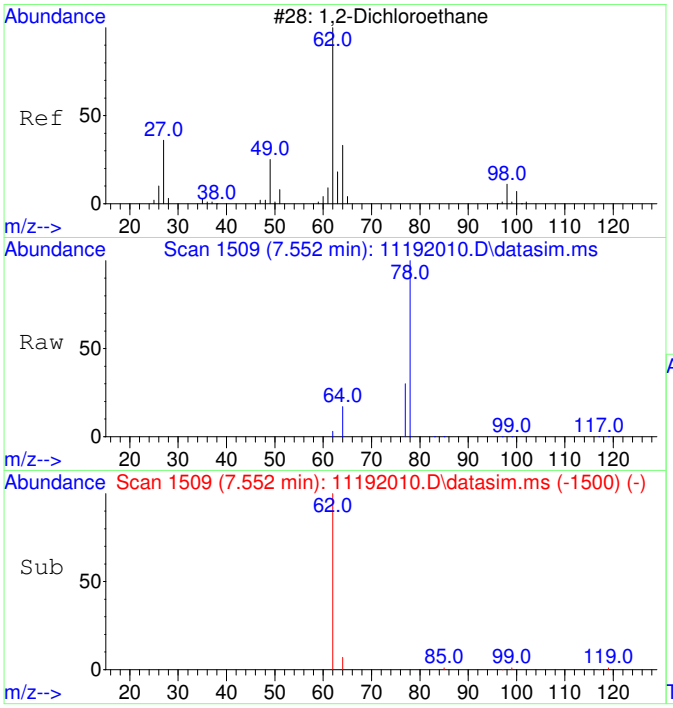


#9
Benzene
Concen: 200.87 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 78 Resp: 20247

Ion	Ratio	Lower	Upper
78	100		
77	30.7	0.0	53.2

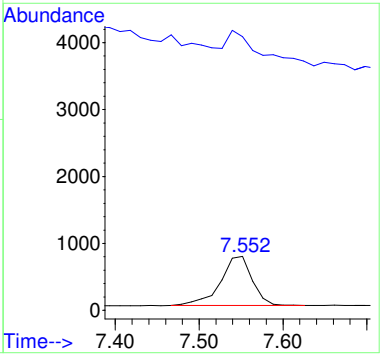


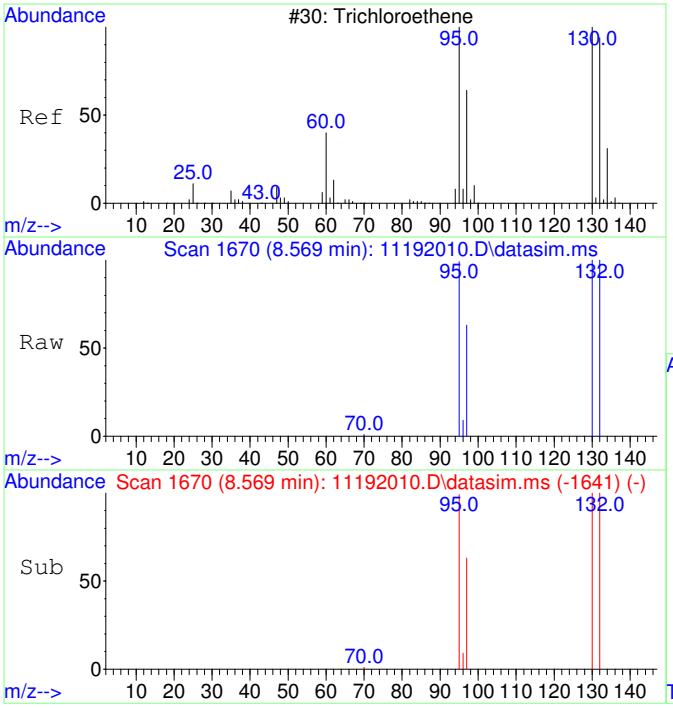


#10
1,2-Dichloroethane
Concen: 53.61 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 62 Resp: 1929

Ion	Ratio	Lower	Upper
62	100		
64	79.5	2.3	62.3#

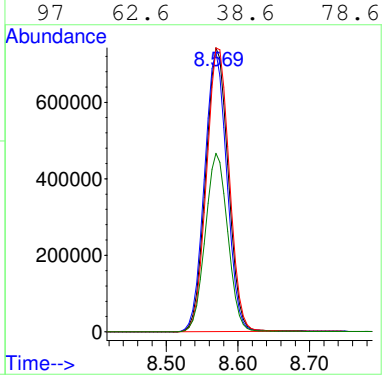


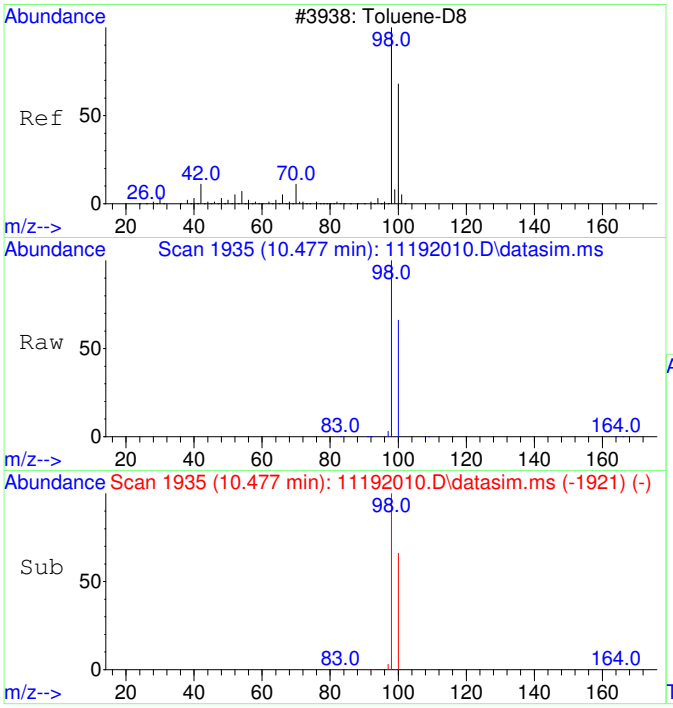


#11
Trichloroethene
Concen: 53422.94 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:130 Resp: 1621328

Ion	Ratio	Lower	Upper
130	100		
95	97.9	60.7	120.7
132	100.8	76.0	116.0
97	62.6	38.6	78.6

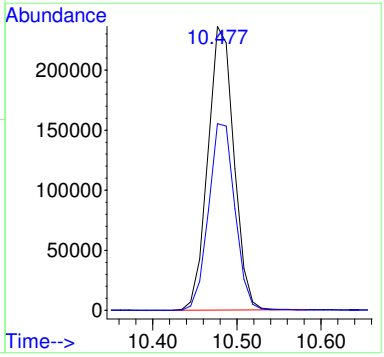


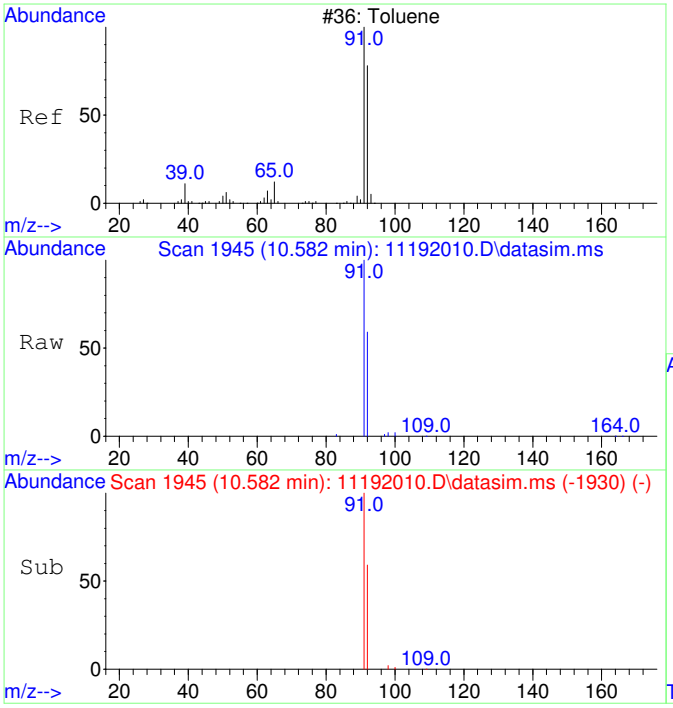


#12
Toluene-d8
Concen: 4366.07 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 98 Resp: 507061

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

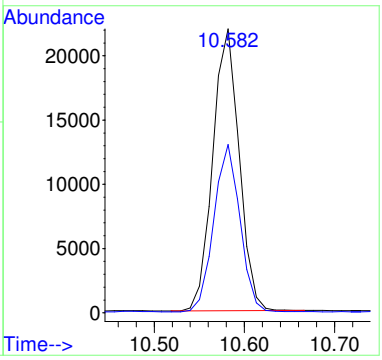


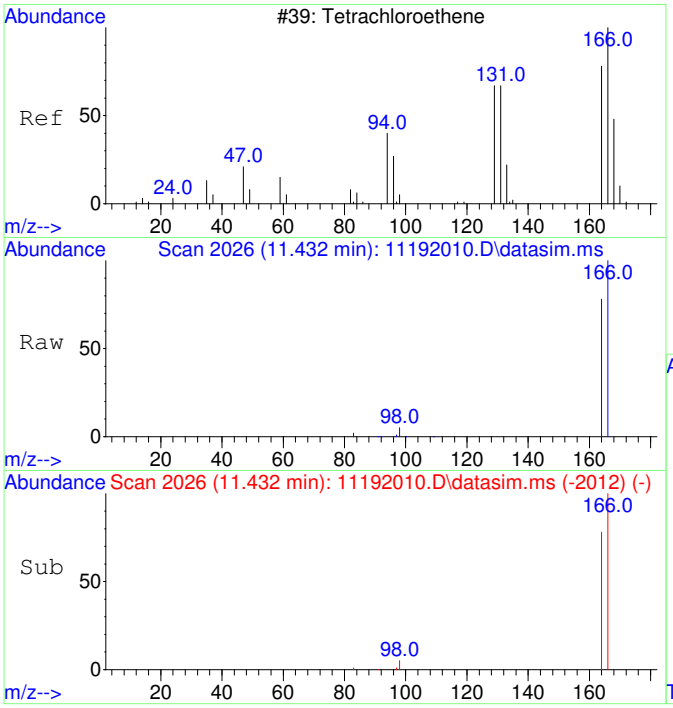


#13
Toluene
Concen: 301.67 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 44666

Ion	Ratio	Lower	Upper
91	100		
92	58.6	29.9	89.9

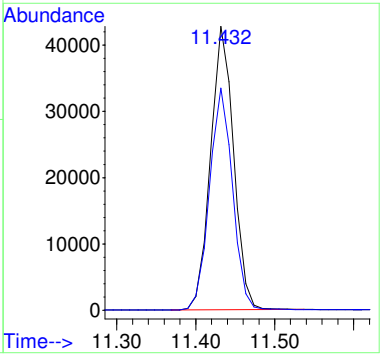


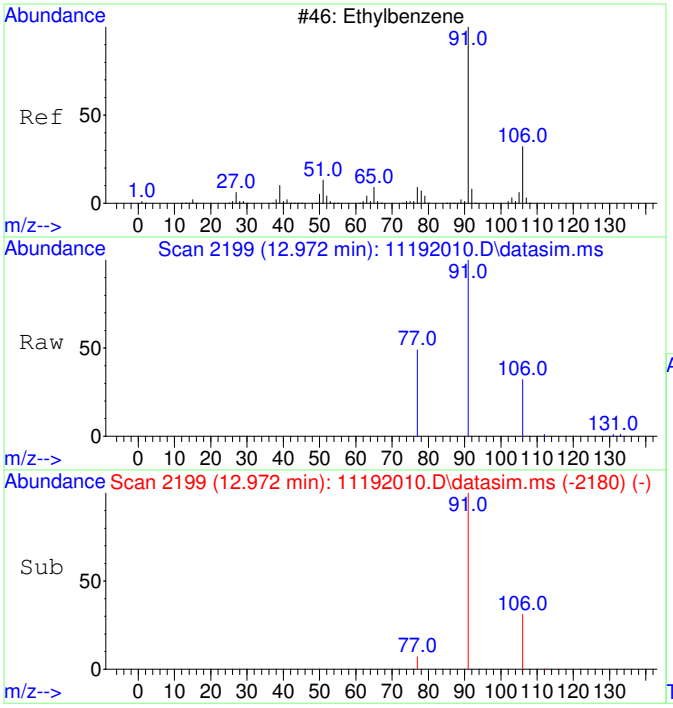


#15
Tetrachloroethene
Concen: 2019.50 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:166 Resp: 86534

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

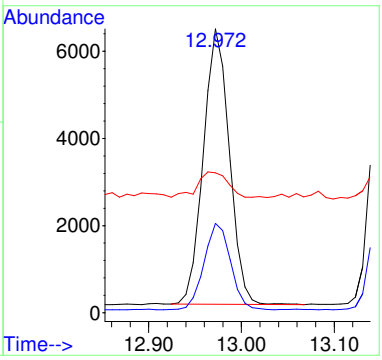


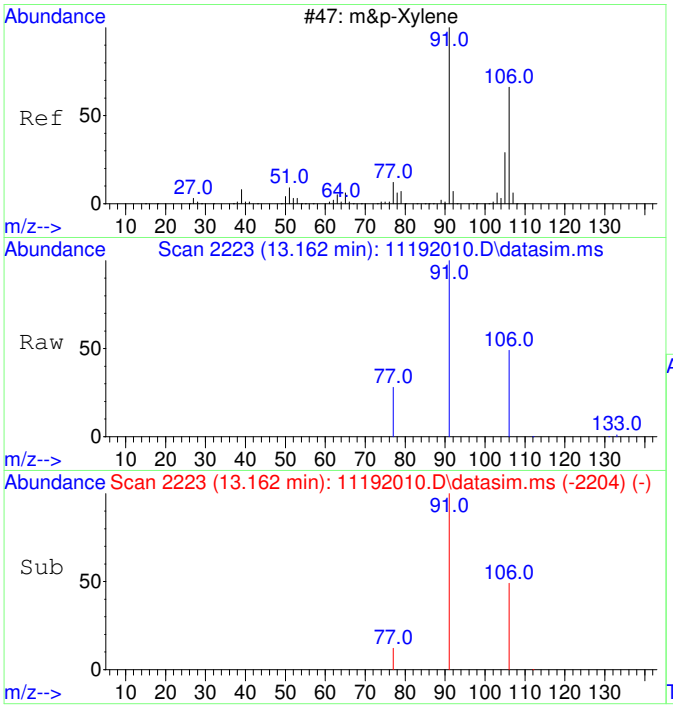


#18
Ethylbenzene
Concen: 68.19 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 12289

Ion	Ratio	Lower	Upper
91	100		
106	31.9	3.0	63.0
77	10.3	0.0	38.2

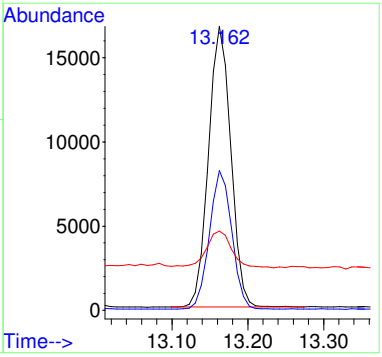


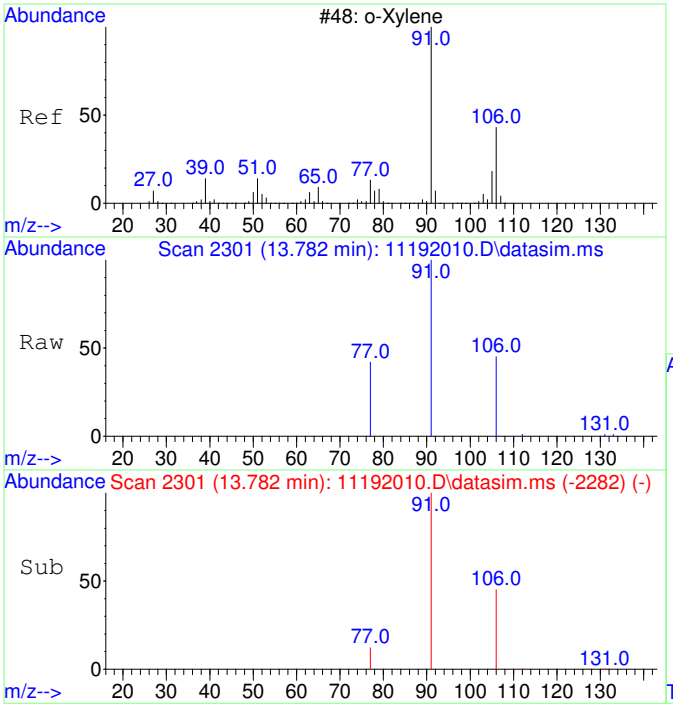


#19
m&p-Xylene
Concen: 241.86 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 34068

Ion	Ratio	Lower	Upper
91	100		
106	49.4	22.2	82.2
77	15.1	0.0	42.4

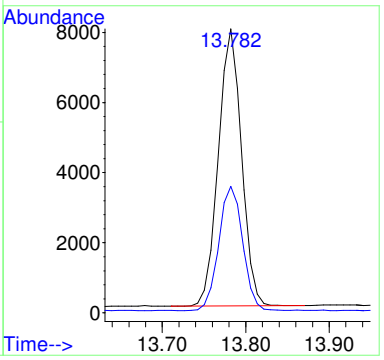


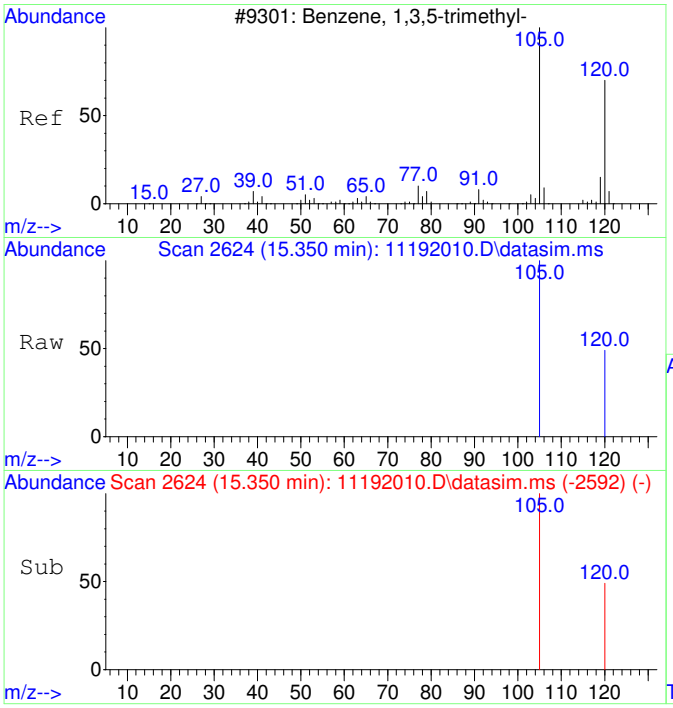


#20
o-Xylene
Concen: 101.24 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 15235

Ion	Ratio	Lower	Upper
91	100		
106	46.5	19.2	79.2

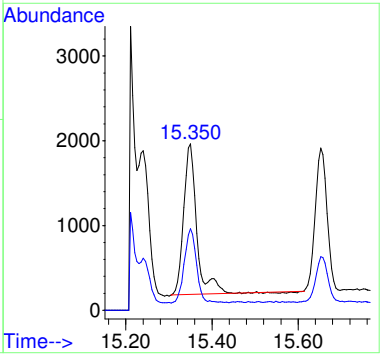


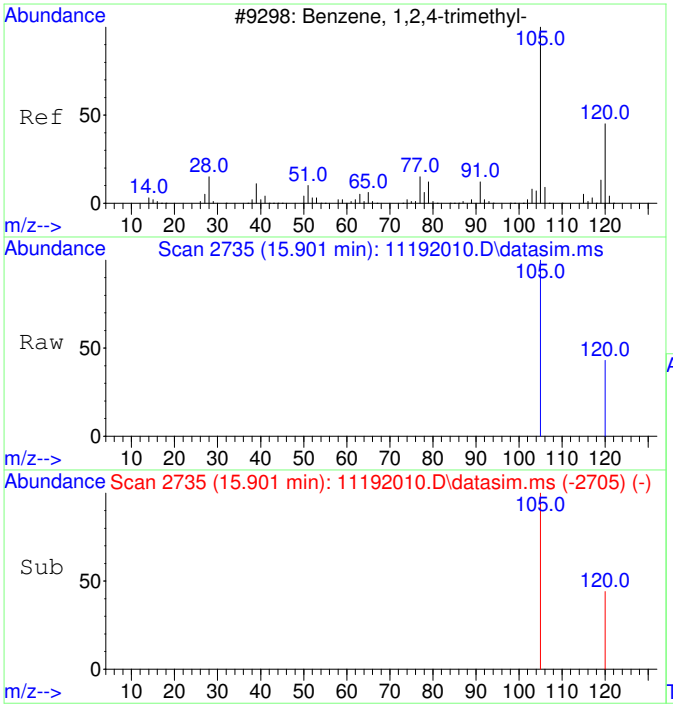


#22
1,3,5-Trimethylbenzene
Concen: 23.13 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:105 Resp: 3705

Ion	Ratio	Lower	Upper
105	100		
120	45.3	21.1	81.1

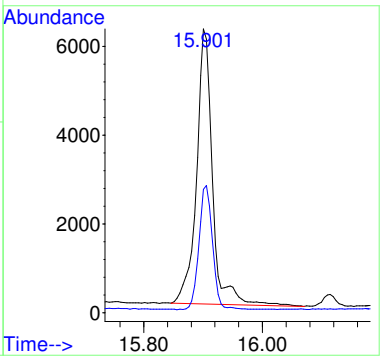


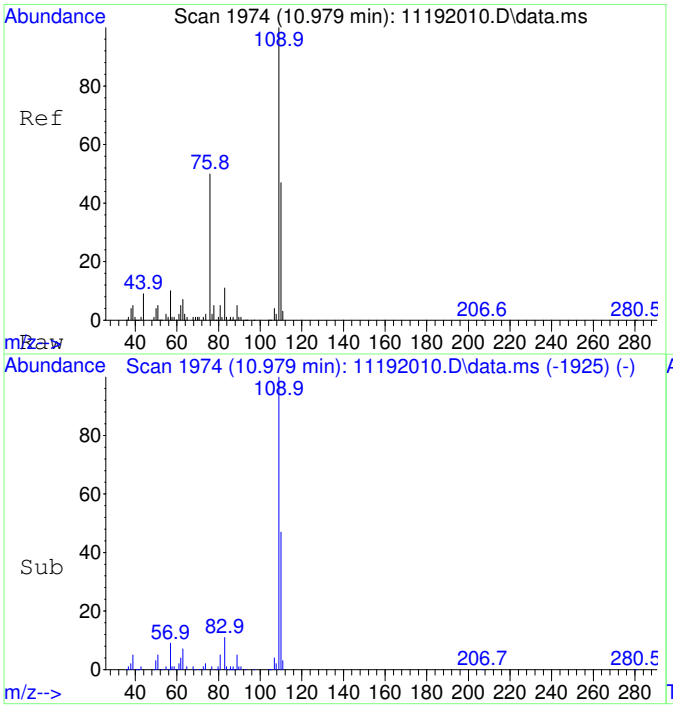


#23
1,2,4-Trimethylbenzene
Concen: 69.43 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:105 Resp: 11551

Ion	Ratio	Lower	Upper
105	100		
120	38.4	17.2	77.2

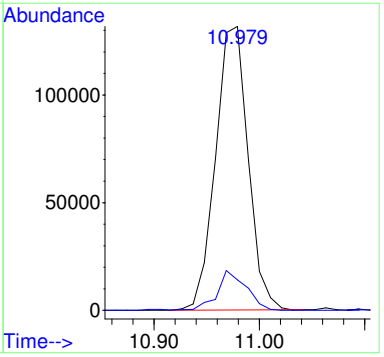


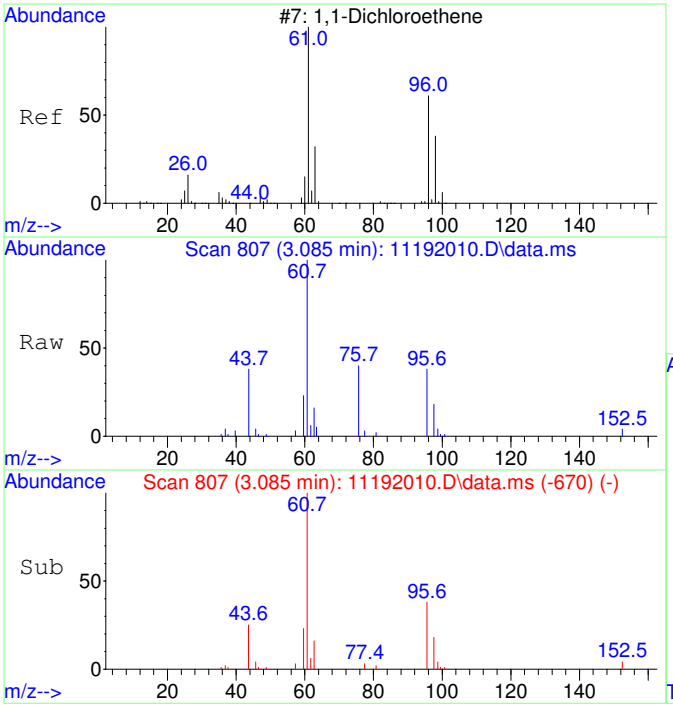


#25
2-Fluorotoluene SCAN
Concen: 4900.75 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:109 Resp: 283419

Ion	Ratio	Lower	Upper
109	100		
83	12.3	0.0	43.8

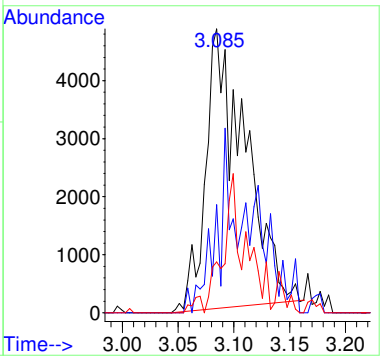


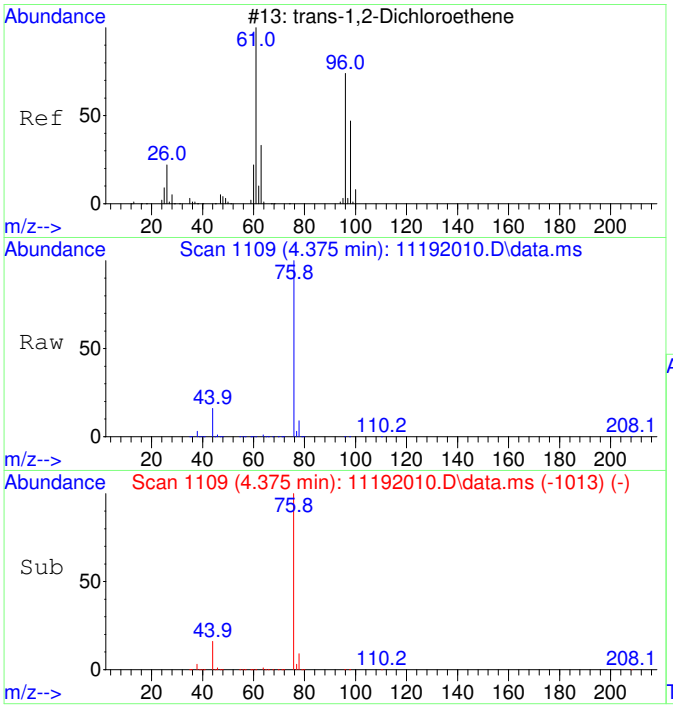


#26
1,1-Dichloroethene SCAN
Concen: 962.24 ug/L
RT: 3.085 min Scan# 807
Delta R.T. 0.007 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 61 Resp: 11818

Ion	Ratio	Lower	Upper
61	100		
96	12.5	33.1	93.1#
98	12.0	11.2	71.2

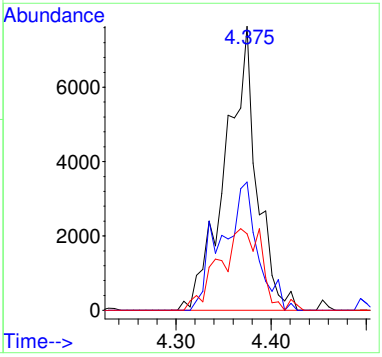


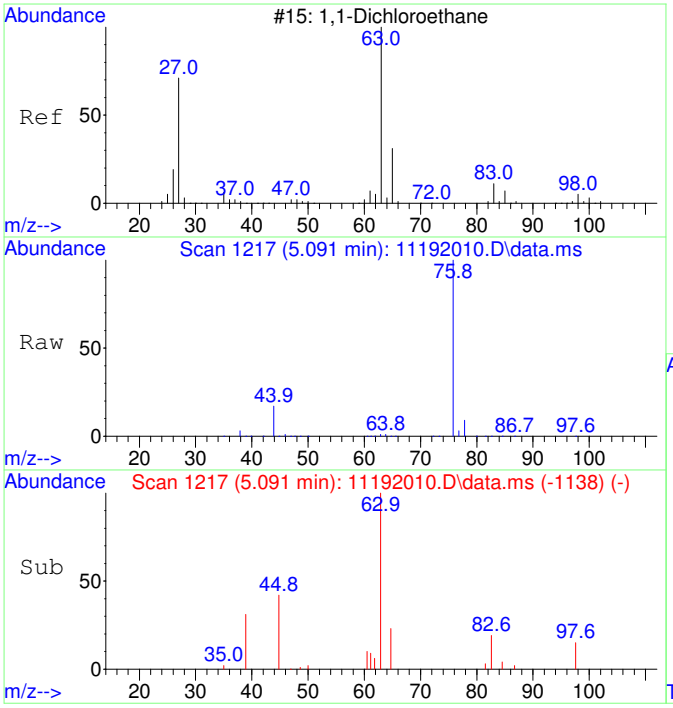


#27
trans-1,2-Dichloroethene SCAN
Concen: 1165.56 ug/L
RT: 4.375 min Scan# 1109
Delta R.T. 0.026 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 61 Resp: 17714

Ion	Ratio	Lower	Upper
61	100		
96	51.9	49.0	109.0
98	38.6	20.5	80.5

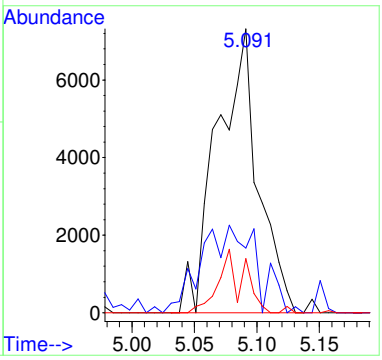


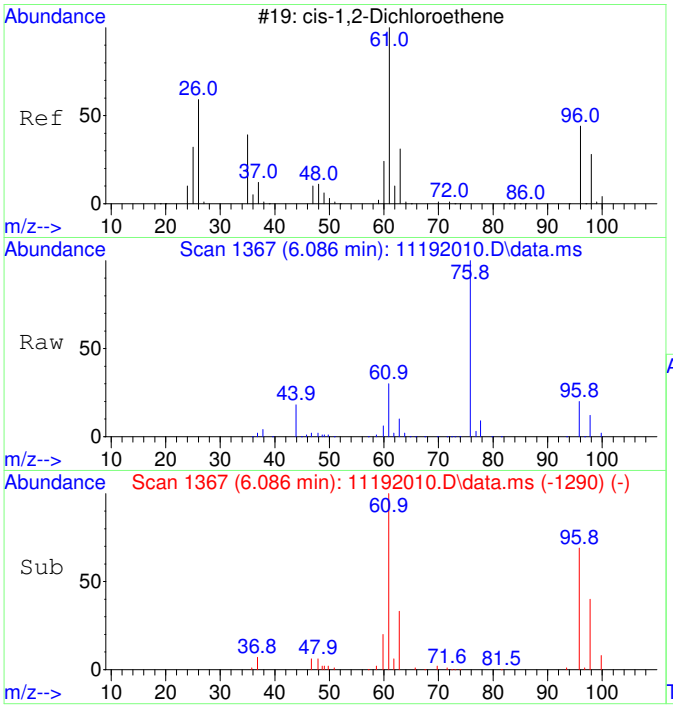


#28
1,1-Dichloroethane SCAN
Concen: 955.39 ug/L
RT: 5.091 min Scan# 1217
Delta R.T. 0.026 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 63 Resp: 16804

Ion	Ratio	Lower	Upper
63	100		
65	42.0	1.3	61.3
83	13.5	0.0	45.9

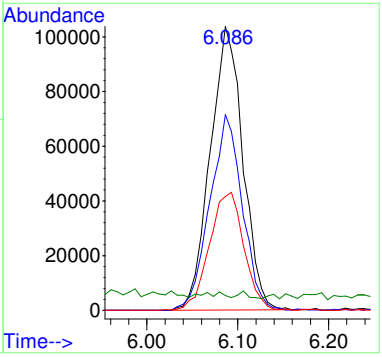


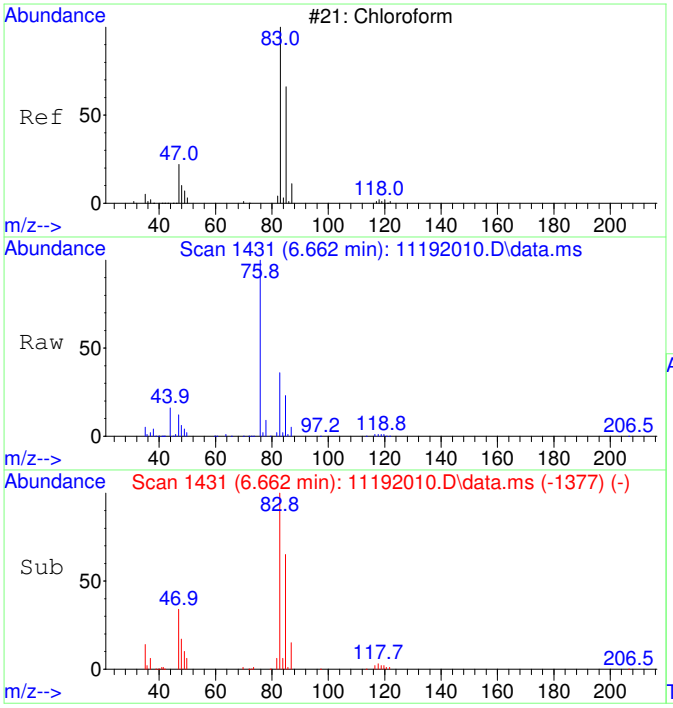


#29
cis-1,2-Dichloroethene SCAN
Concen: 13758.91 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 61 Resp: 259279

Ion	Ratio	Lower	Upper
61	100		
96	68.5	39.9	99.9
98	44.1	13.5	73.5
64	1.1	4.5	64.5#

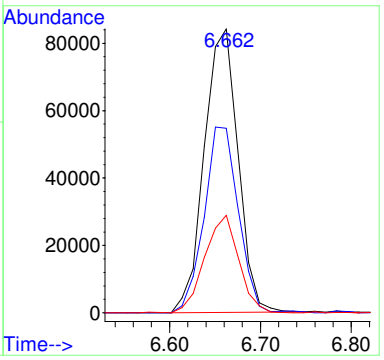


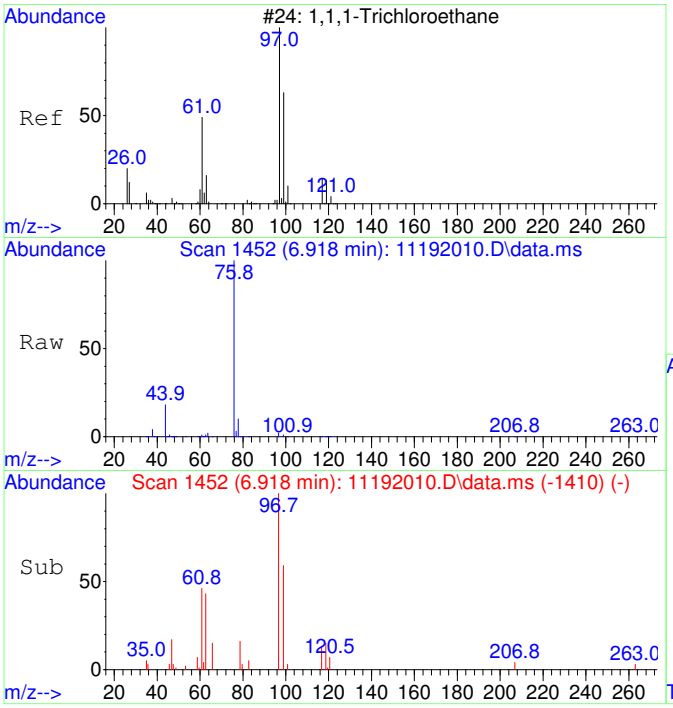


#30
Chloroform SCAN
Concen: 10672.02 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 83 Resp: 218130

Ion	Ratio	Lower	Upper
83	100		
85	66.6	34.6	94.6
47	34.7	0.0	53.4

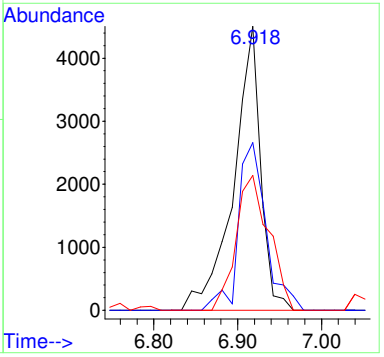


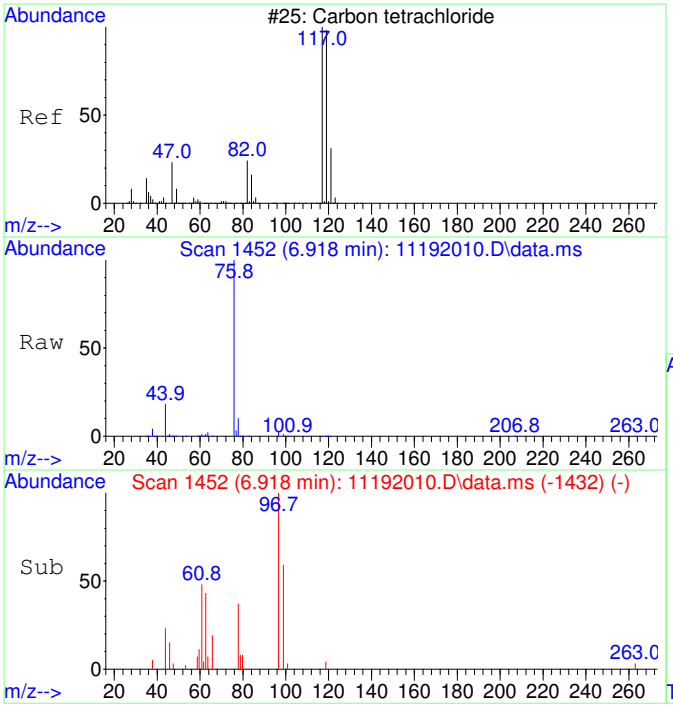


#31
1,1,1-Trichloroethane SCAN
Concen: 539.83 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 97 Resp: 10055

Ion	Ratio	Lower	Upper
97	100		
99	60.5	43.6	103.6
61	57.9	18.0	78.0

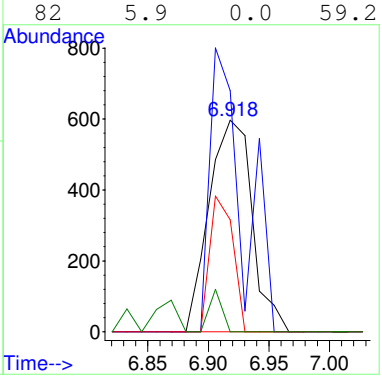


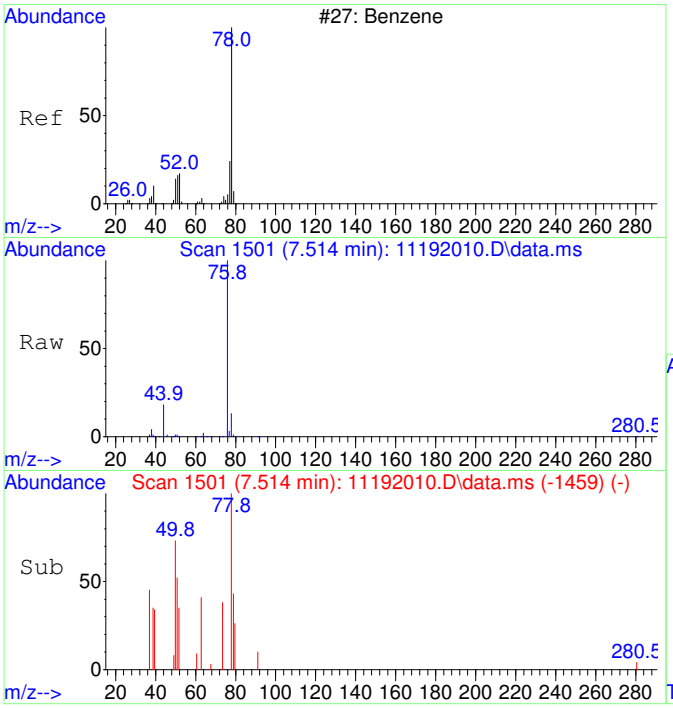


#32
Carbon tetrachloride SCAN
Concen: 76.33 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. -0.255 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:117 Resp: 1483

Ion	Ratio	Lower	Upper
117	100		
119	102.6	75.5	135.5
121	34.4	0.0	58.8
82	5.9	0.0	59.2

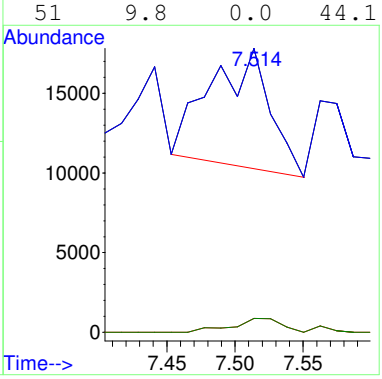


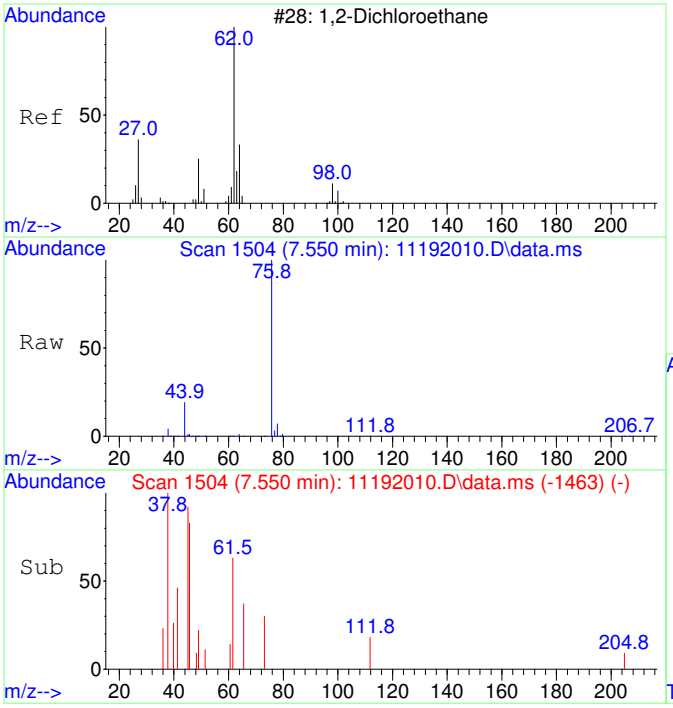


#33
Benzene SCAN
Concen: 429.99 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 78 Resp: 22052

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	9.8	0.0	47.9
51	9.8	0.0	44.1

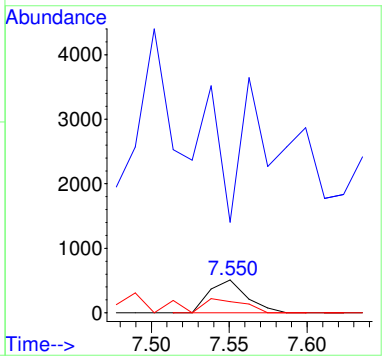


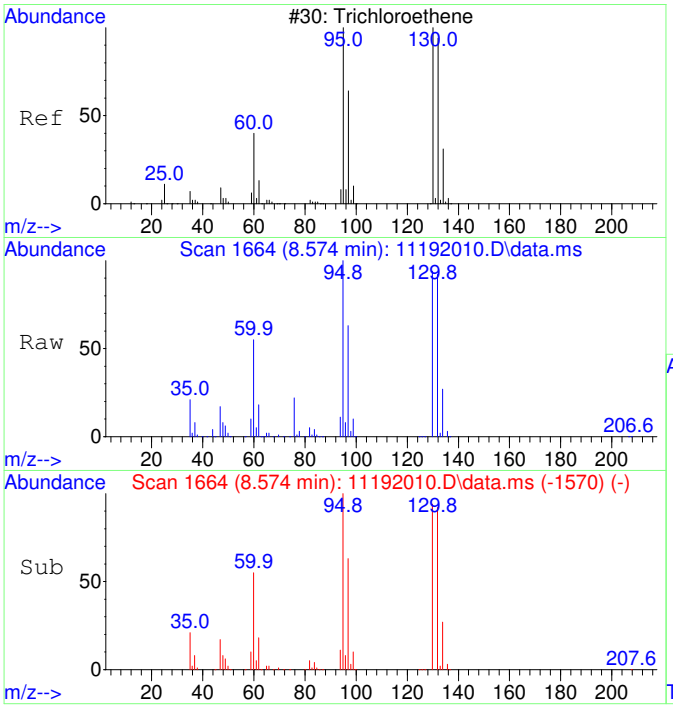


#34
1,2-Dichloroethane SCAN
Concen: 44.94 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 62 Resp: 851

Ion	Ratio	Lower	Upper
62	100		
64	449.0	5.2	65.2#
49	0.0	3.9	63.9#

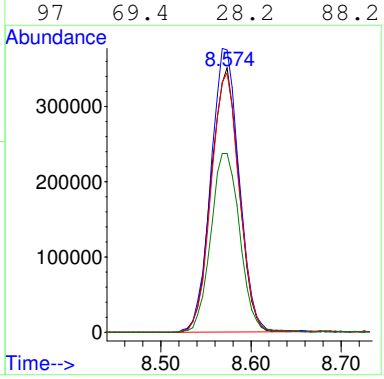


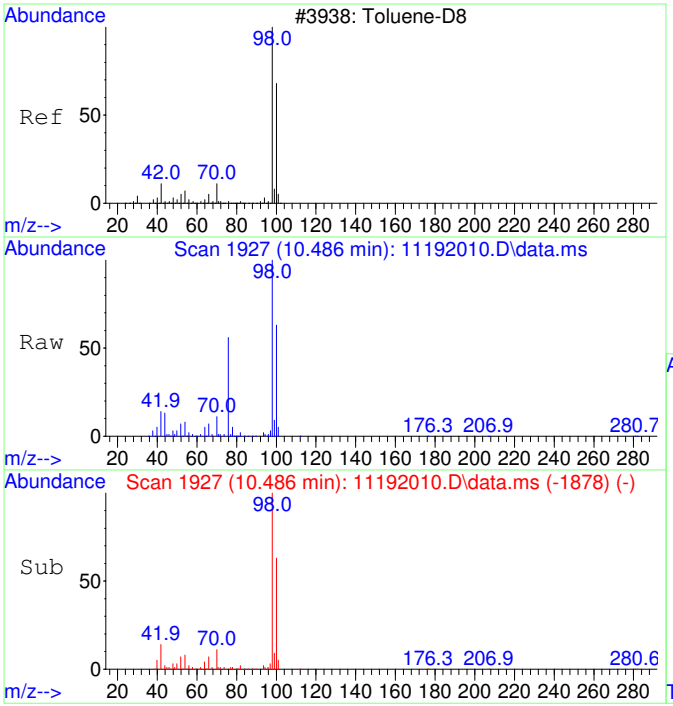


#35
Trichloroethene SCAN
Concen: 53667.02 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:130 Resp: 756347

Ion	Ratio	Lower	Upper
130	100		
95	108.2	60.5	120.5
132	98.6	59.6	119.6
97	69.4	28.2	88.2

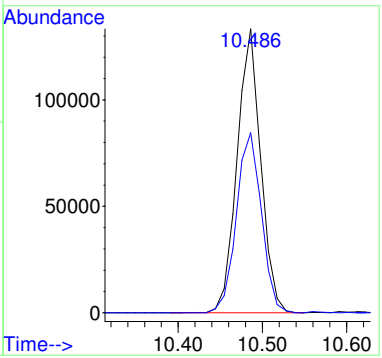


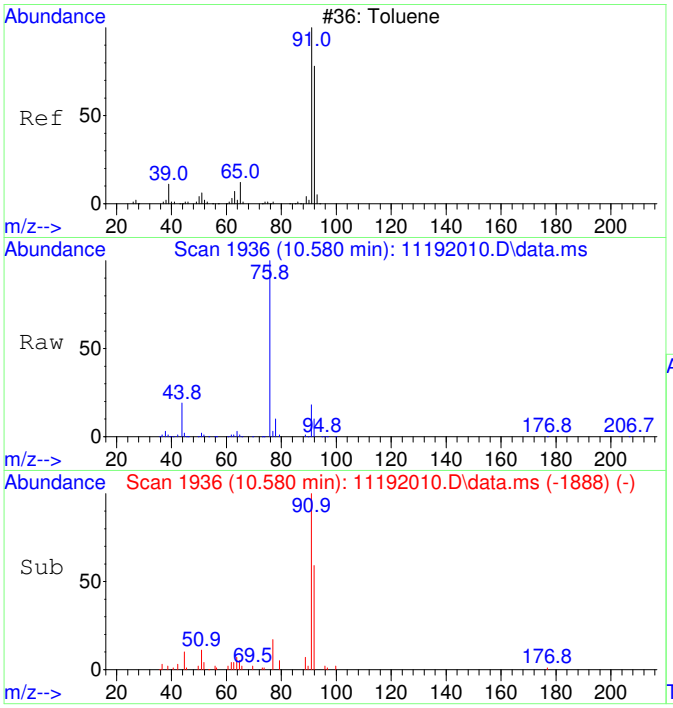


#36
Toluene-d8 SCAN
Concen: 4609.79 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 98 Resp: 260719

Ion	Ratio	Lower	Upper
98	100		
100	67.0	40.0	100.0

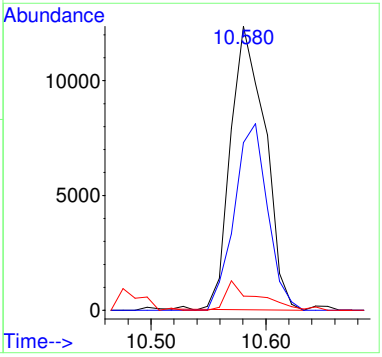


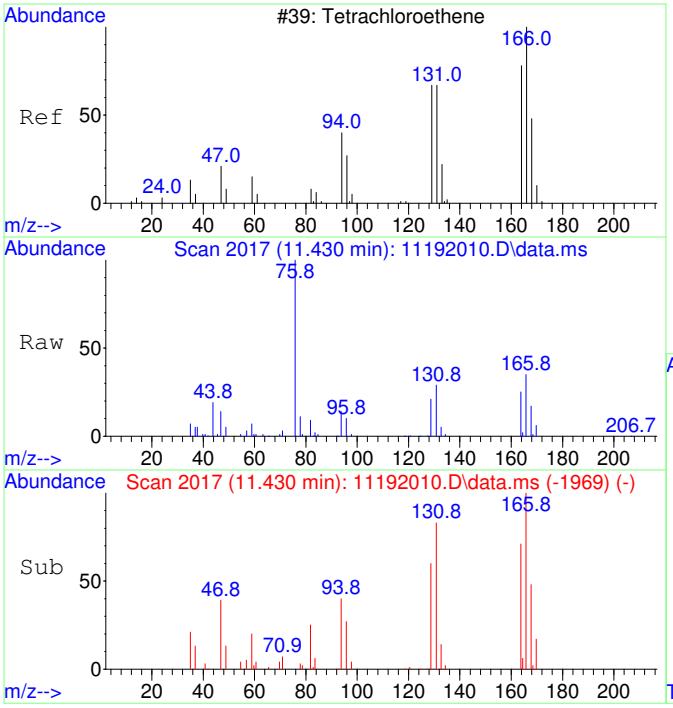


#37
Toluene SCAN
Concen: 357.40 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 25887

Ion	Ratio	Lower	Upper
91	100		
92	63.4	28.3	88.3
65	0.0	0.0	41.0

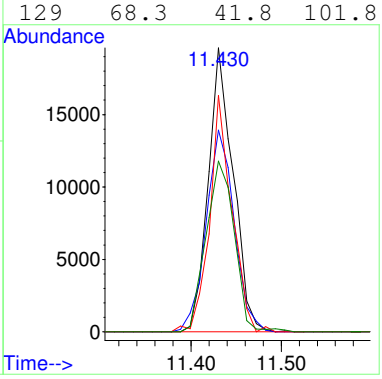


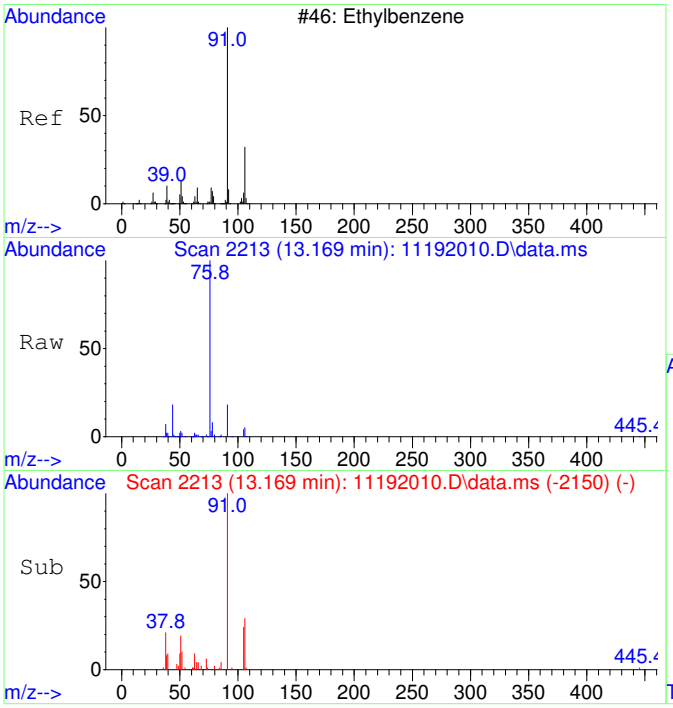


#39
Tetrachloroethene SCAN
Concen: 2164.16 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:166 Resp: 37659

Ion	Ratio	Lower	Upper
166	100		
164	80.0	50.9	110.9
131	74.4	38.7	98.7
129	68.3	41.8	101.8

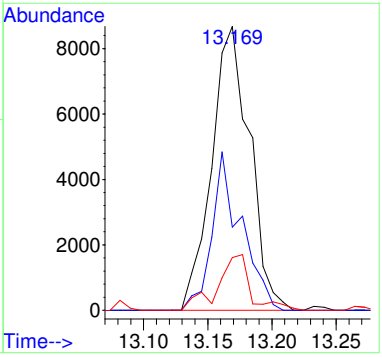


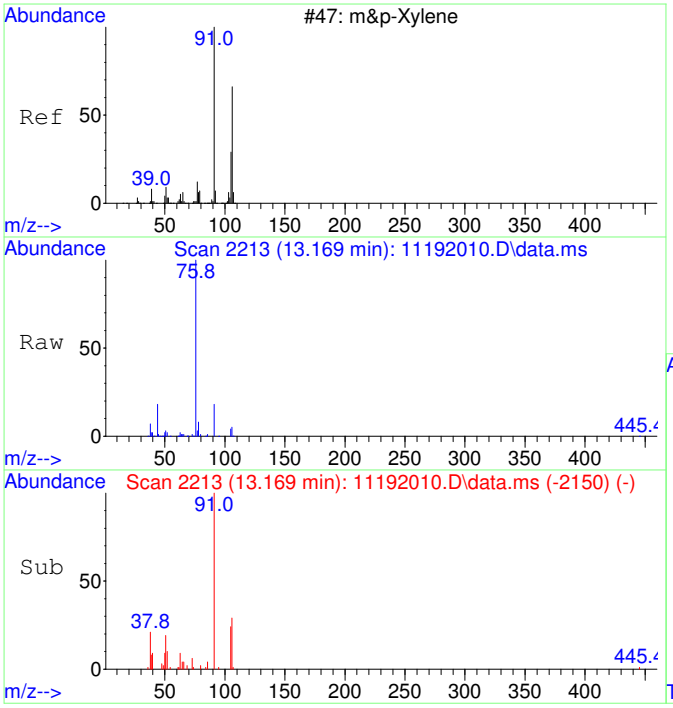


#42
Ethylbenzene SCAN
Concen: 135.39 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 17865

Ion	Ratio	Lower	Upper
91	100		
106	42.9	23.1	83.1
51	16.9	0.0	40.1

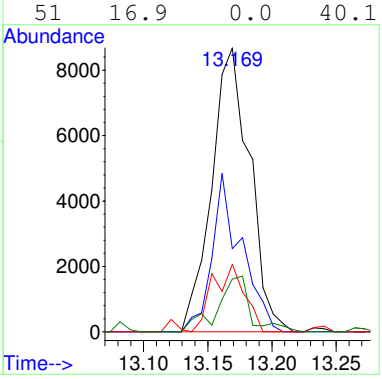


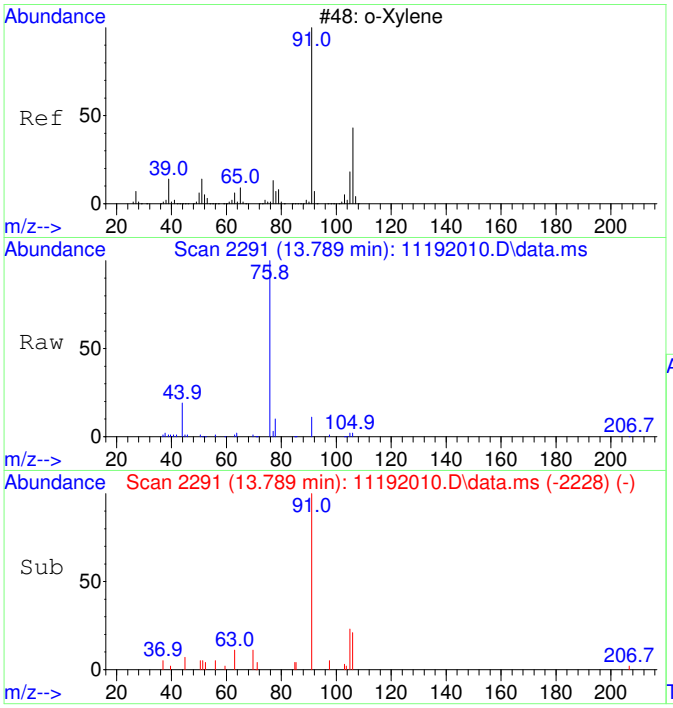


#43
m&p-Xylene SCAN
Concen: 135.39 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 17865

Ion	Ratio	Lower	Upper
91	100		
106	42.9	23.1	83.1
105	19.8	0.0	54.7
51	16.9	0.0	40.1

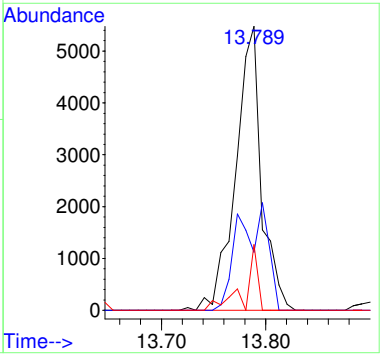


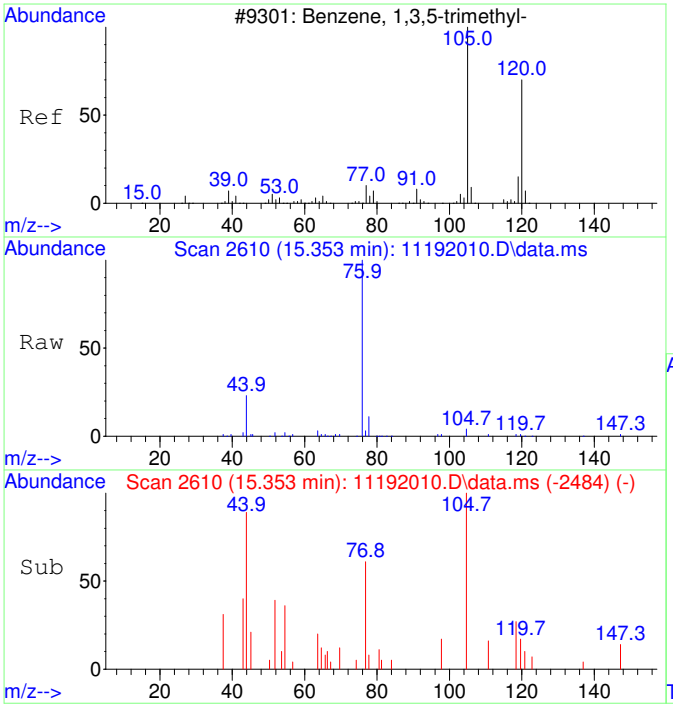


#44
o-Xylene SCAN
Concen: 132.98 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 9393

Ion	Ratio	Lower	Upper
91	100		
106	42.6	18.0	78.0
105	11.3	0.0	56.6

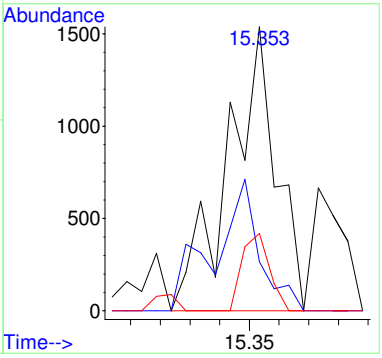


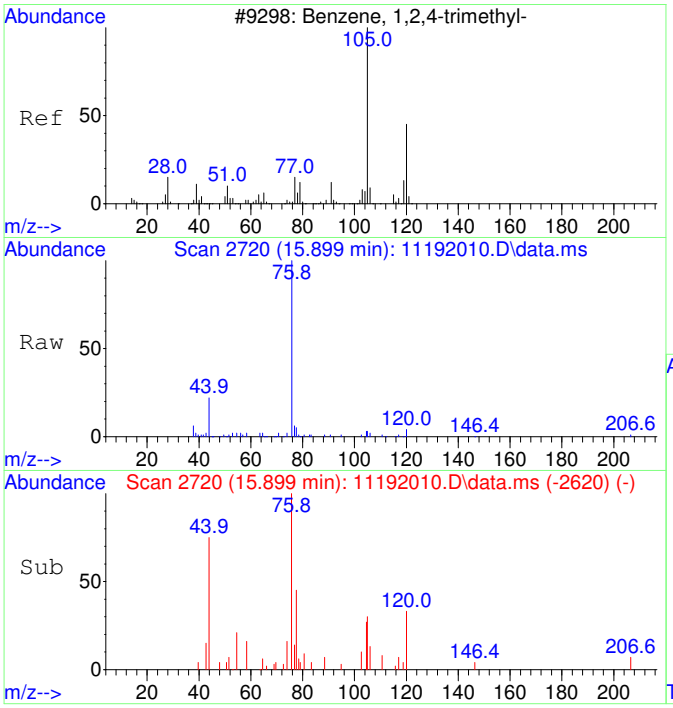


#46
1,3,5-Trimethylbenzene SCAN
Concen: 23.28 ug/L
RT: 15.353 min Scan# 2610
Delta R.T. 0.010 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:105 Resp: 1733

Ion	Ratio	Lower	Upper
105	100		
120	44.0	18.3	78.3
119	15.8	0.0	43.1

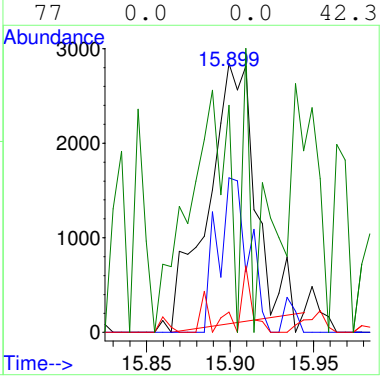




#47
1,2,4-Trimethylbenzene SCAN
Concen: 70.12 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.005 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:105 Resp: 5341

Ion	Ratio	Lower	Upper
105	100		
120	39.3	16.9	76.9
119	3.9	0.0	41.9
77	0.0	0.0	42.3



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192010.D
Acq On : 19 Nov 2020 11:55
InstName : AG5975C
Operator : TD
Sample : 2011017-20
Misc :
ALS Vial : 10 Sample Multiplier: 1

M.I. Performed By:
TD at 11:30 am, Nov 23, 2020

M.I. Approved By:
ZR at 6:29 pm, Nov 23, 2020

Quant Time: Nov 23 08:14:17 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

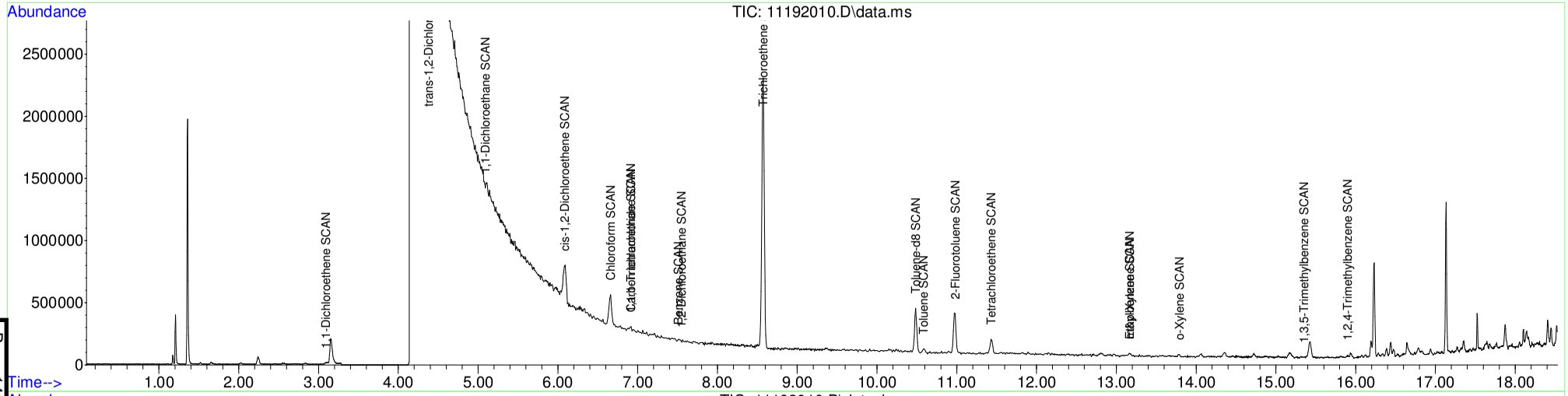
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	593258	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	507061	4366.07 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.32%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.093	61	21481m	906.76 ug/L	
3] trans-1,2-Dichloroethene	4.369	61	27234	995.02 ug/L	100
4] 1,1-Dichloroethane	5.079	63	28457	835.23 ug/L	98
5] cis-1,2-Dichloroethene	6.088	61	474540	13194.79 ug/L	99
6] Chloroform	6.652	83	437722	11891.15 ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	19246	481.43 ug/L	99
8] Carbon tetrachloride	7.187	117	4995	132.75 ug/L	99
9] Benzene	7.503	78	20247	200.87 ug/L	85
10] 1,2-Dichloroethane	7.552	62	1929	53.61 ug/L #	16
11] Trichloroethene	8.569	130	1621328	53422.94 ug/L **oc**	94
13] Toluene	10.582	91	44666	301.67 ug/L	98
15] Tetrachloroethene	11.432	166	86534	2019.50 ug/L	100
18] Ethylbenzene	12.972	91	12289	68.19 ug/L	97
19] m&p-Xylene	13.162	91	34068	241.86 ug/L	96
20] o-Xylene	13.782	91	15235	101.24 ug/L	96
22] 1,3,5-Trimethylbenzene	15.350	105	3705	23.13 ug/L	92
23] 1,2,4-Trimethylbenzene	15.901	105	11551	69.43 ug/L	87
25) 2-Fluorotoluene SCAN	10.979	109	283419	4900.75 ug/L	96
26) 1,1-Dichloroethene SCAN	3.085	61	11818	962.24 ug/L #	42
27) trans-1,2-Dichloroethe...	4.375	61	17714	1165.56 ug/L	74
28) 1,1-Dichloroethane SCAN	5.091	63	16804	955.39 ug/L	85
29) cis-1,2-Dichloroethene...	6.086	61	259279	13758.91 ug/L #	85
30) Chloroform SCAN	6.662	83	218130	10672.02 ug/L	92
31) 1,1,1-Trichloroethane ...	6.918	97	10055	539.83 ug/L	85
32) Carbon tetrachloride SCAN	6.918	117	1483	76.33 ug/L	89
33) Benzene SCAN	7.514	78	22052	429.99 ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	851	44.94 ug/L #	1
35) Trichloroethene SCAN	8.574	130	756347	53667.02 ug/L	86
36) Toluene-d8 SCAN	10.486	98	260719	4609.79 ug/L	96
37) Toluene SCAN	10.580	91	25887	357.40 ug/L #	90
39) Tetrachloroethene SCAN	11.430	166	37659	2164.16 ug/L	96
42) Ethylbenzene SCAN	13.169	91	17865	135.39 ug/L	85
43) m&p-Xylene SCAN	13.169	91	17865	135.39 ug/L	86
44) o-Xylene SCAN	13.789	91	9393	132.98 ug/L	84
46) 1,3,5-Trimethylbenzene...	15.353	105	1733	23.28 ug/L	94
47) 1,2,4-Trimethylbenzene...	15.899	105	5341	70.12 ug/L #	84

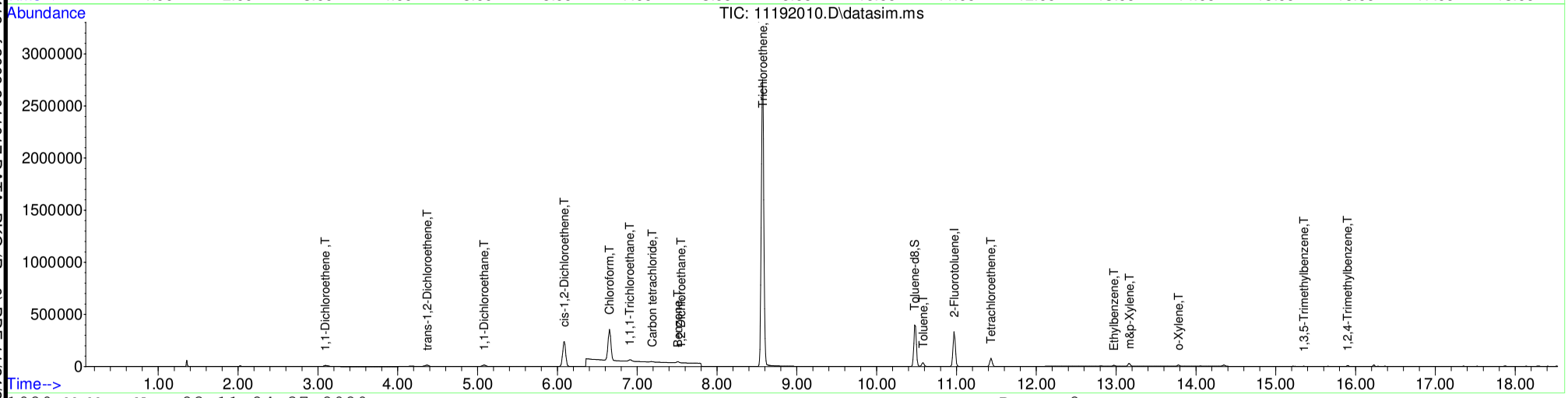
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192010.D
Acq On : 19 Nov 2020 11:55
InstName : AG5975C
Operator : TD
Sample : 2011017-20
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 23 08:14:17 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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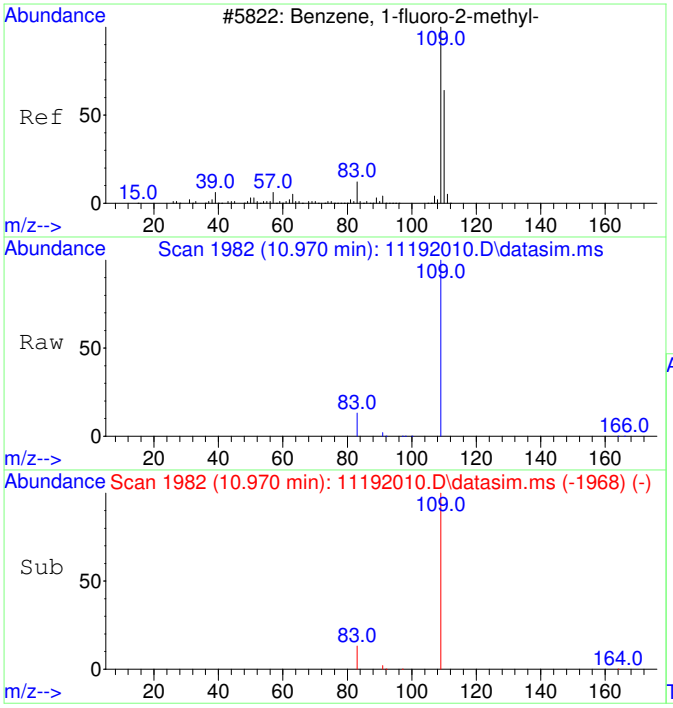
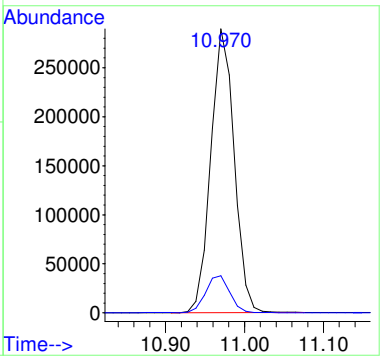
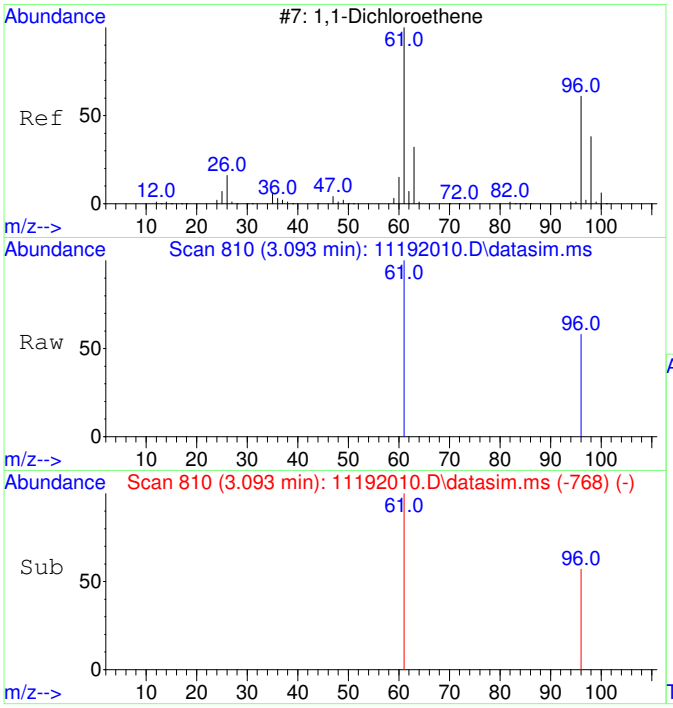


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:109 Resp: 593258

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

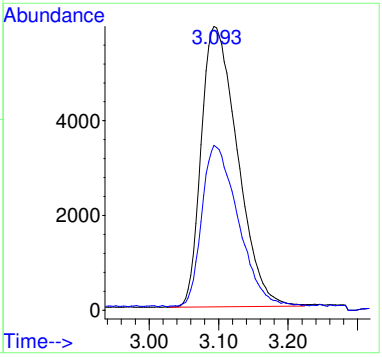


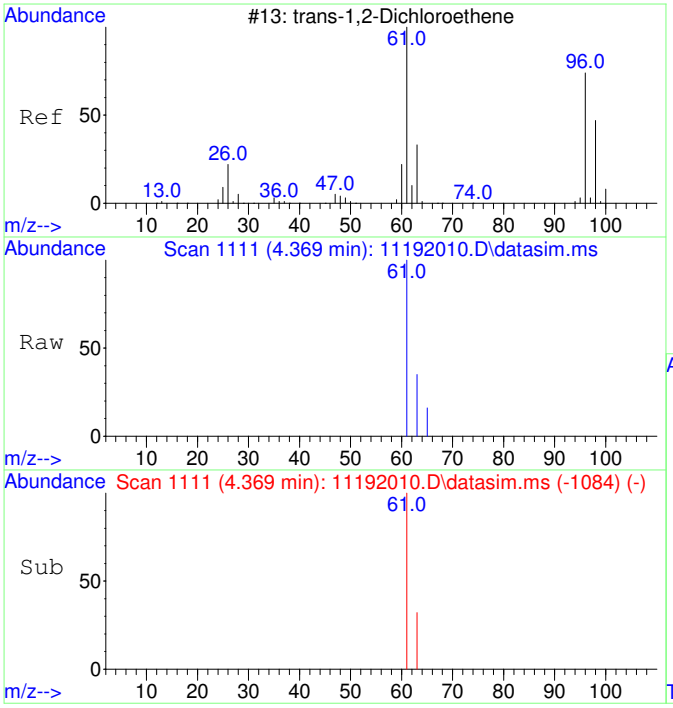


#2
1,1-Dichloroethene
Concen: 906.76 ug/L m
RT: 3.093 min Scan# 810
Delta R.T. 0.007 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 61 Resp: 21481

Ion	Ratio	Lower	Upper
61	100		
96	57.2	37.2	97.2

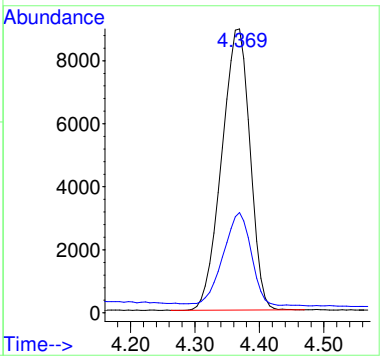


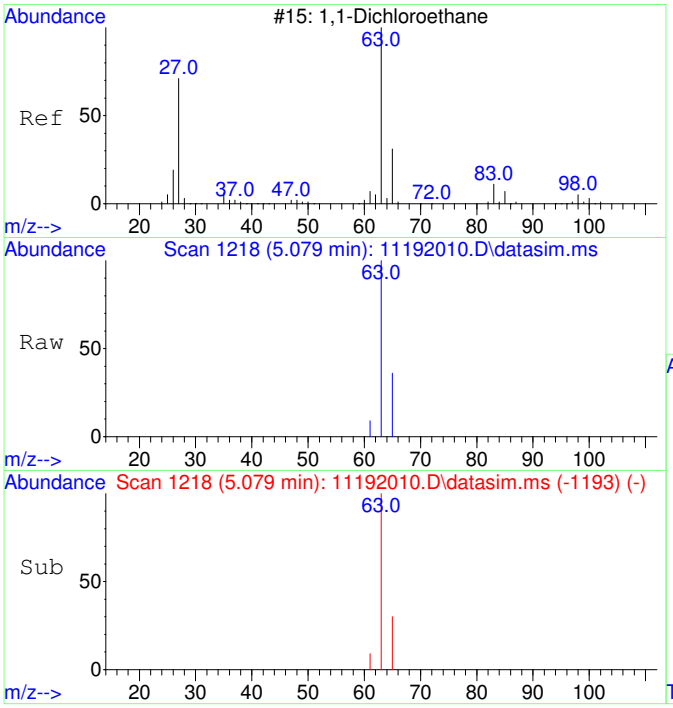


#3
trans-1,2-Dichloroethene
Concen: 995.02 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. 0.026 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 61 Resp: 27234

Ion	Ratio	Lower	Upper
61	100		
63	32.6	2.4	62.4

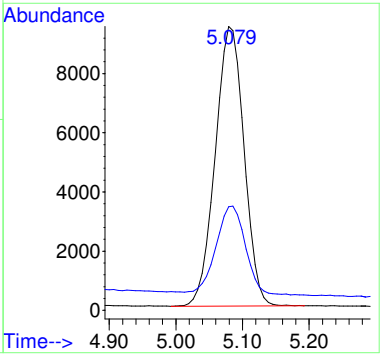


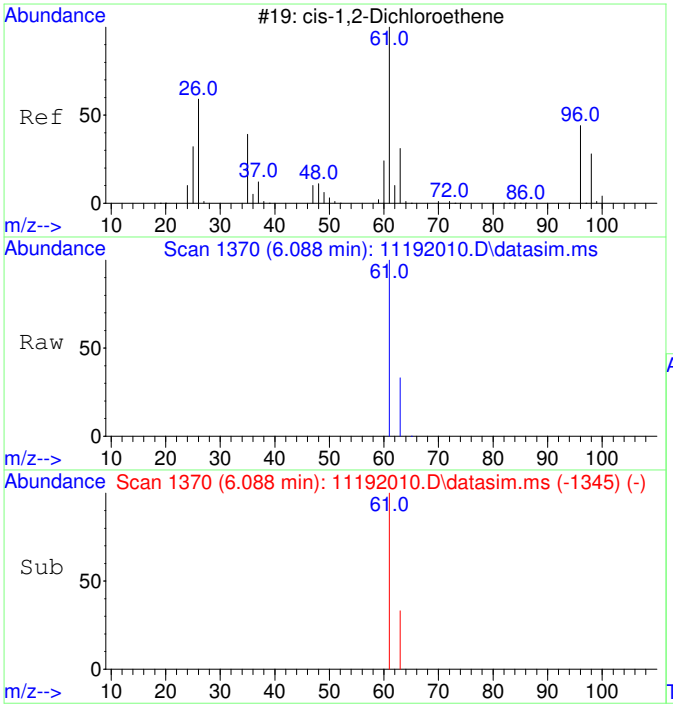


#4
1,1-Dichloroethane
Concen: 835.23 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 63 Resp: 28457

Ion	Ratio	Lower	Upper
63	100		
65	32.6	1.8	61.8

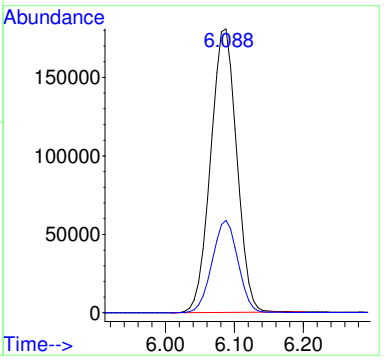


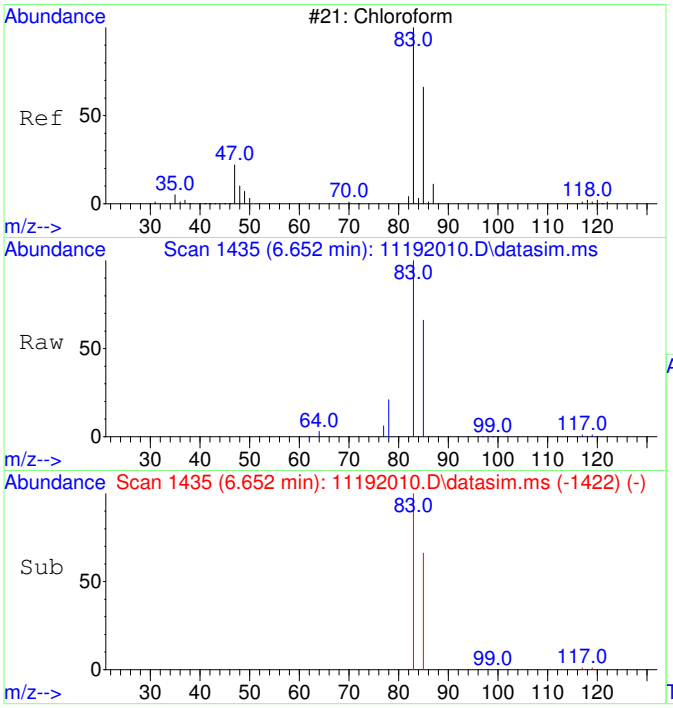


#5
cis-1,2-Dichloroethene
Concen: 13194.79 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 61 Resp: 474540

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.5	62.5

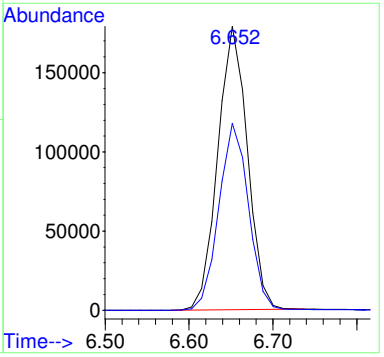


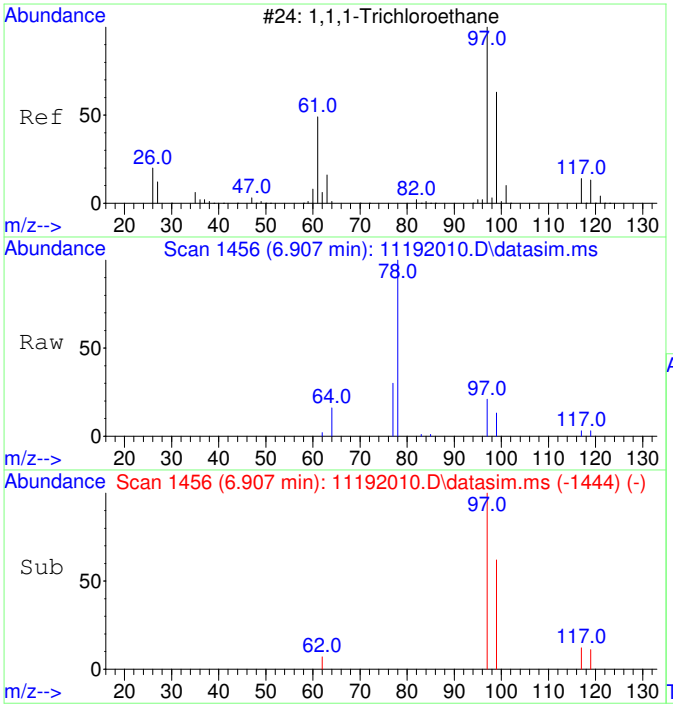


#6
Chloroform
Concen: 11891.15 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 83 Resp: 437722

Ion	Ratio	Lower	Upper
83	100		
85	65.7	35.1	95.1

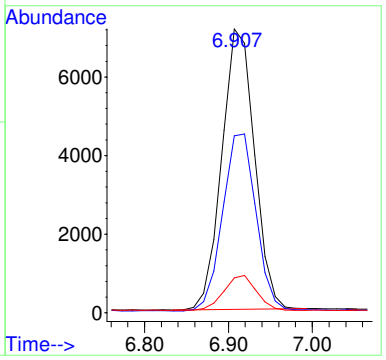


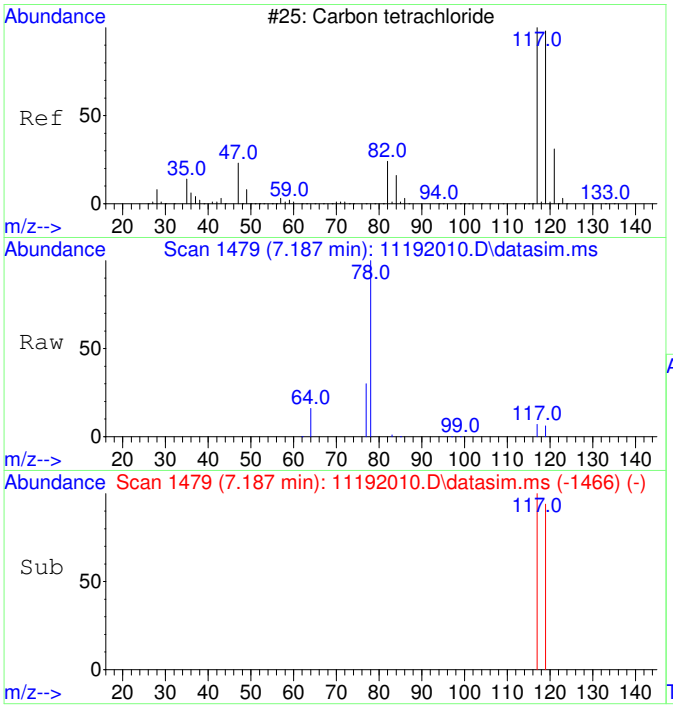


#7
1,1,1-Trichloroethane
Concen: 481.43 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 97 Resp: 19246

Ion	Ratio	Lower	Upper
97	100		
99	64.1	34.6	94.6
117	12.4	0.0	43.2

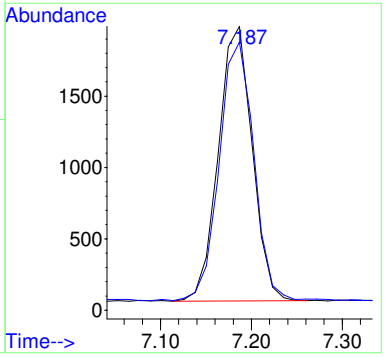


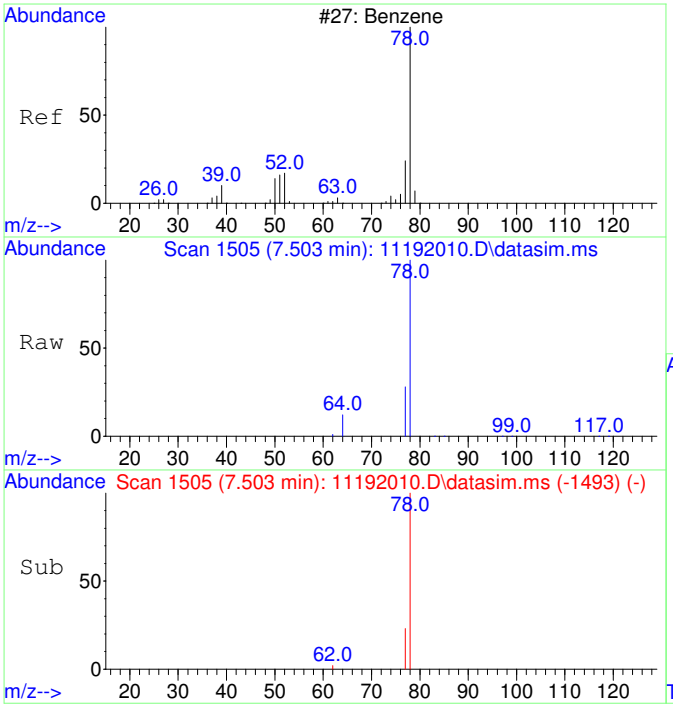


#8
Carbon tetrachloride
Concen: 132.75 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:117 Resp: 4995

Ion	Ratio	Lower	Upper
117	100		
119	95.0	66.4	126.4

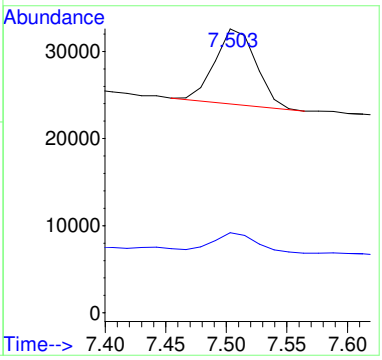


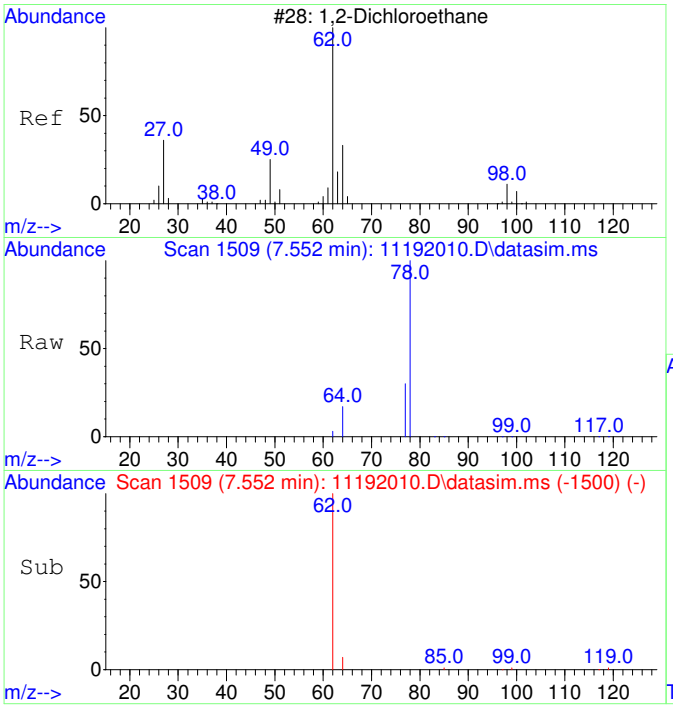


#9
Benzene
Concen: 200.87 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 78 Resp: 20247

Ion	Ratio	Lower	Upper
78	100		
77	30.7	0.0	53.2

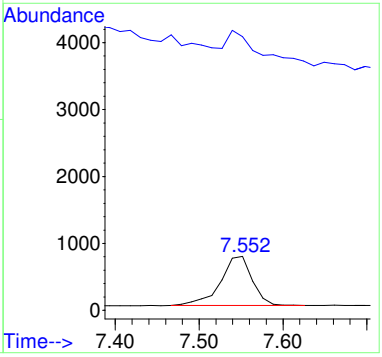


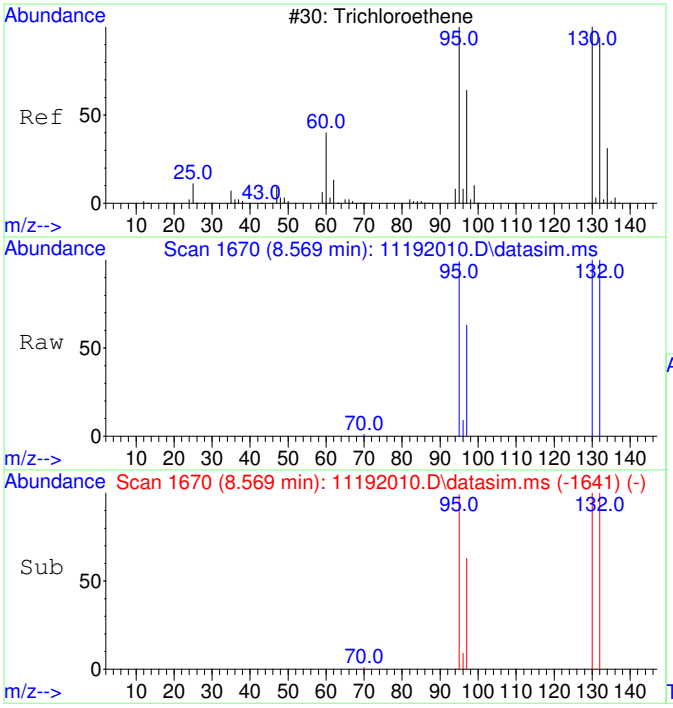


#10
1,2-Dichloroethane
Concen: 53.61 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 62 Resp: 1929

Ion	Ratio	Lower	Upper
62	100		
64	79.5	2.3	62.3#

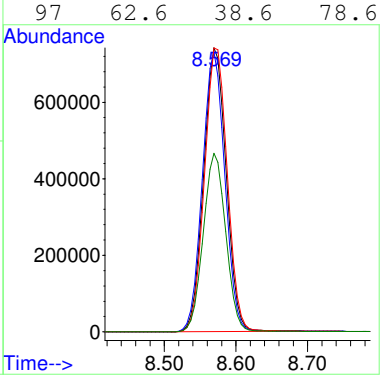


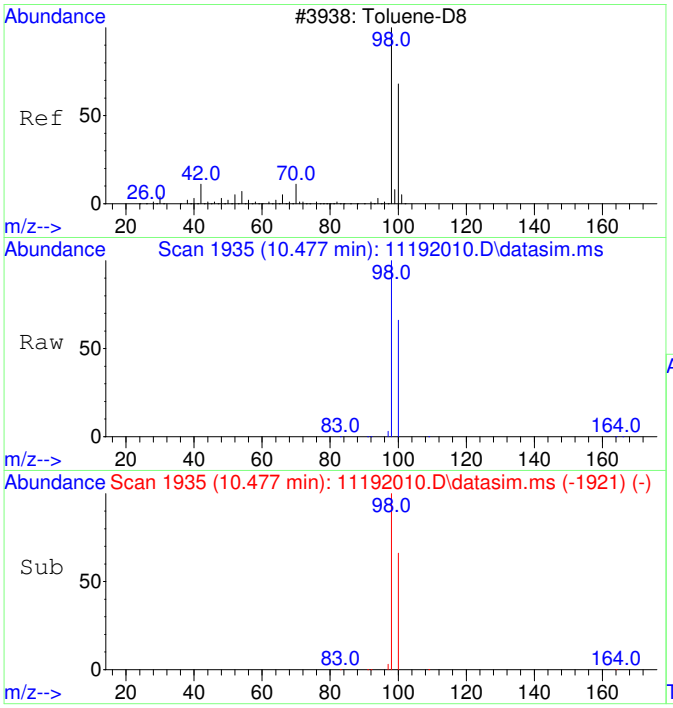


#11
Trichloroethene
Concen: 53422.94 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:130 Resp: 1621328

Ion	Ratio	Lower	Upper
130	100		
95	97.9	60.7	120.7
132	100.8	76.0	116.0
97	62.6	38.6	78.6

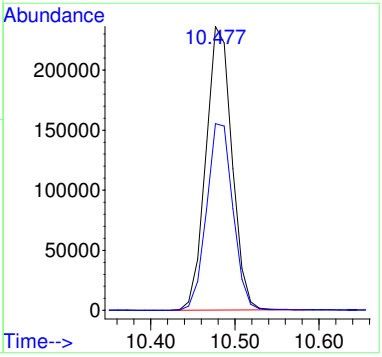


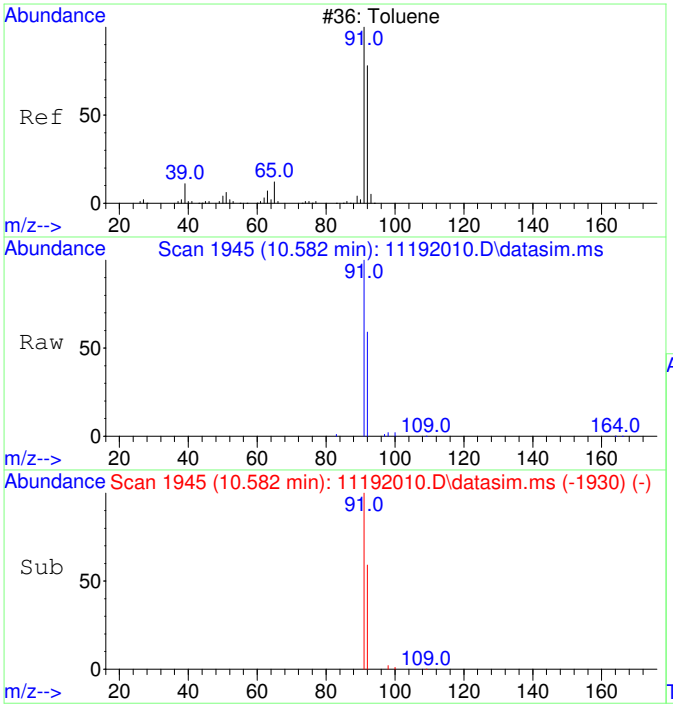


#12
Toluene-d8
Concen: 4366.07 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 98 Resp: 507061

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

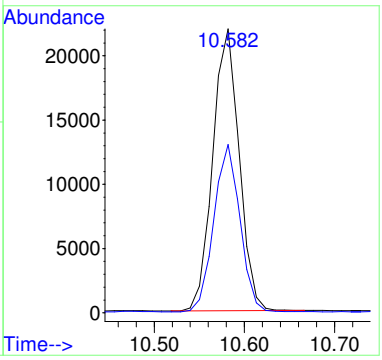


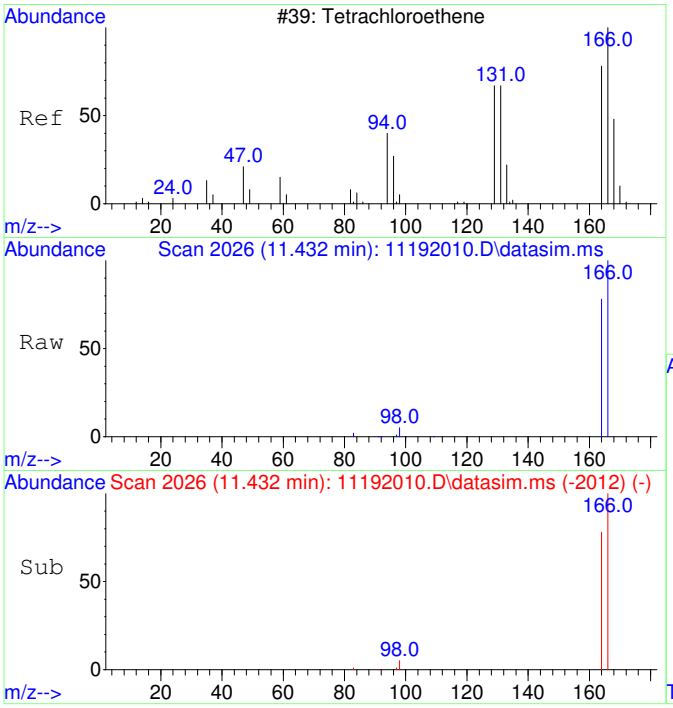


#13
Toluene
Concen: 301.67 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 44666

Ion	Ratio	Lower	Upper
91	100		
92	58.6	29.9	89.9

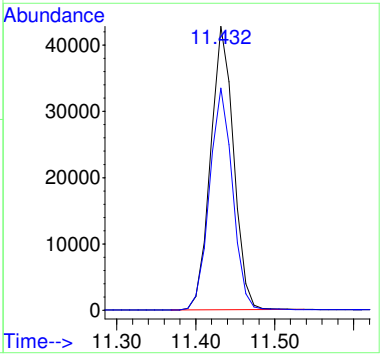


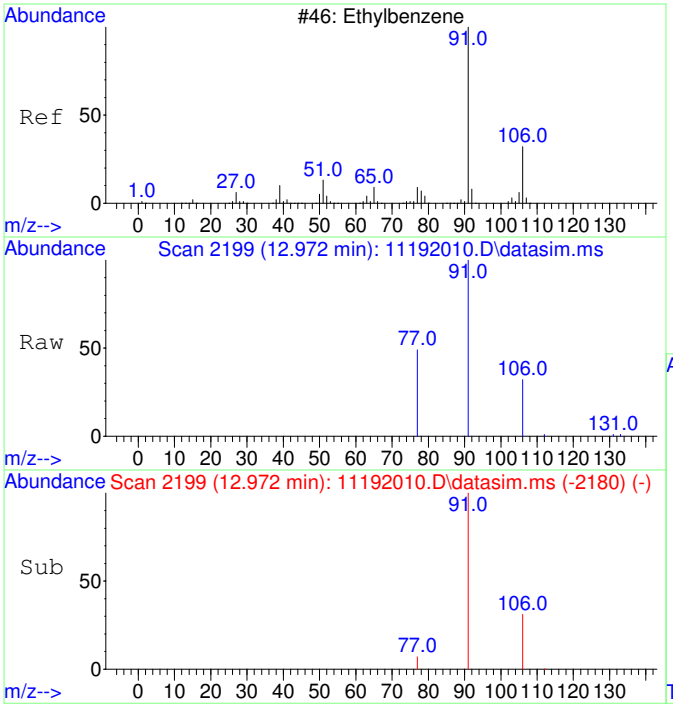


#15
Tetrachloroethene
Concen: 2019.50 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:166 Resp: 86534

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

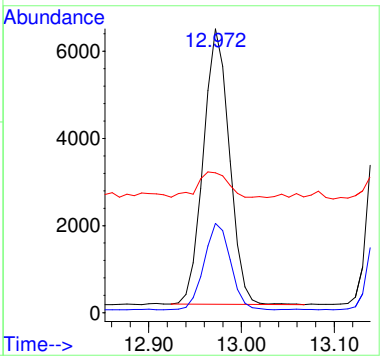


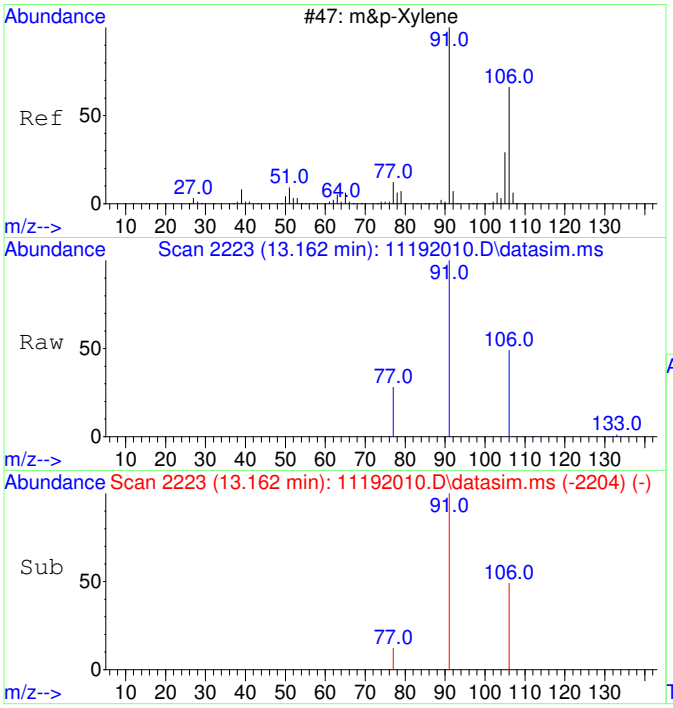


#18
Ethylbenzene
Concen: 68.19 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 12289

Ion	Ratio	Lower	Upper
91	100		
106	31.9	3.0	63.0
77	10.3	0.0	38.2

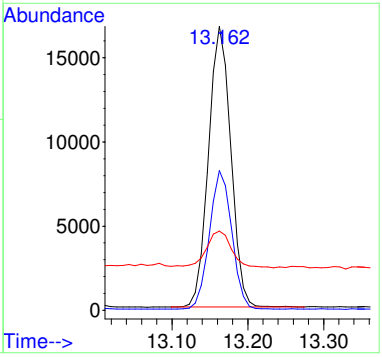


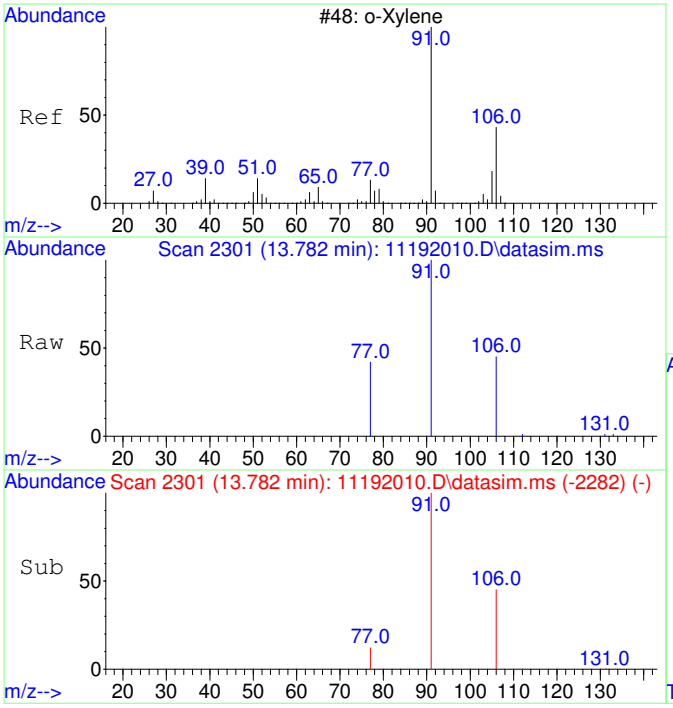


#19
m&p-Xylene
Concen: 241.86 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 34068

Ion	Ratio	Lower	Upper
91	100		
106	49.4	22.2	82.2
77	15.1	0.0	42.4

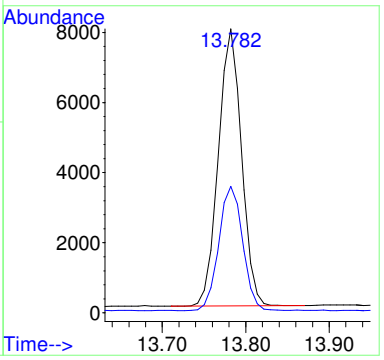


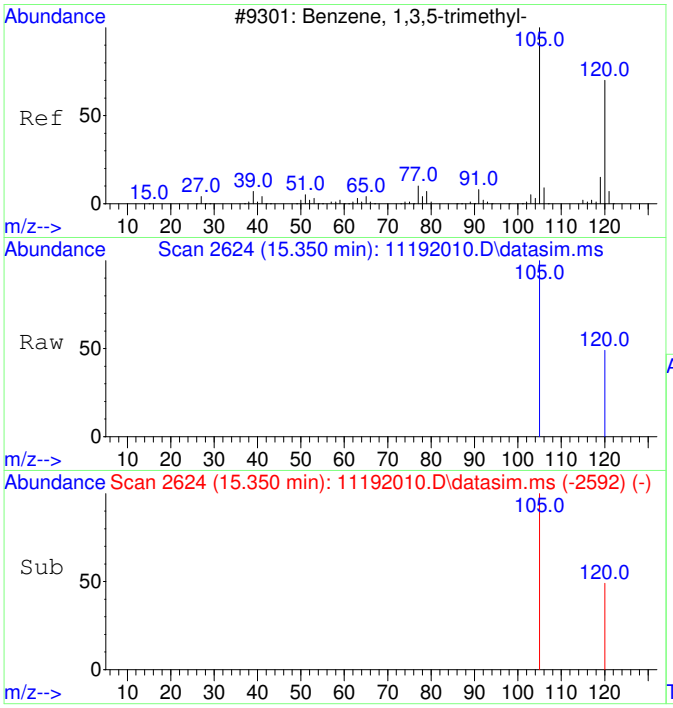


#20
o-Xylene
Concen: 101.24 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 15235

Ion	Ratio	Lower	Upper
91	100		
106	46.5	19.2	79.2

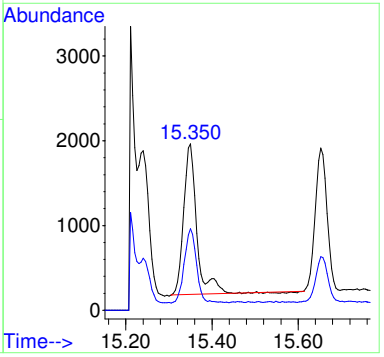


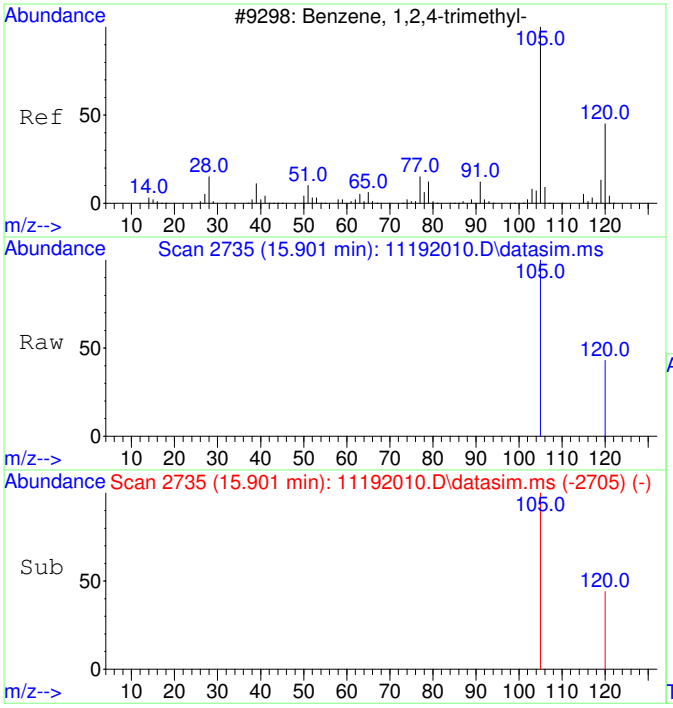


#22
1,3,5-Trimethylbenzene
Concen: 23.13 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:105 Resp: 3705

Ion	Ratio	Lower	Upper
105	100		
120	45.3	21.1	81.1

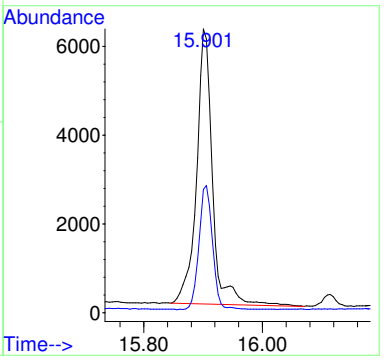


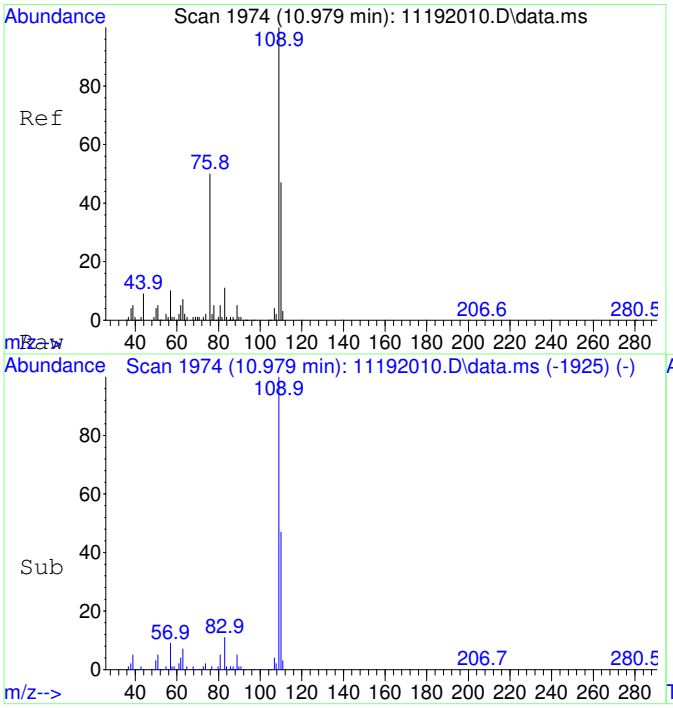


#23
1,2,4-Trimethylbenzene
Concen: 69.43 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:105 Resp: 11551

Ion	Ratio	Lower	Upper
105	100		
120	38.4	17.2	77.2

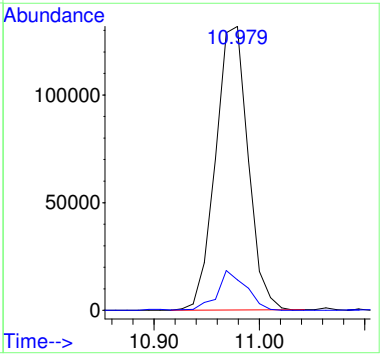


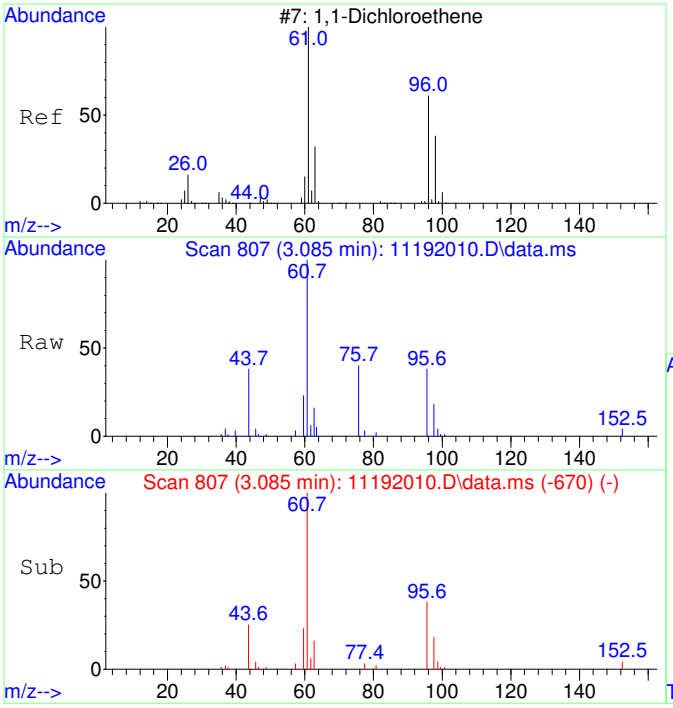


#25
2-Fluorotoluene SCAN
Concen: 4900.75 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:109 Resp: 283419

Ion	Ratio	Lower	Upper
109	100		
83	12.3	0.0	43.8

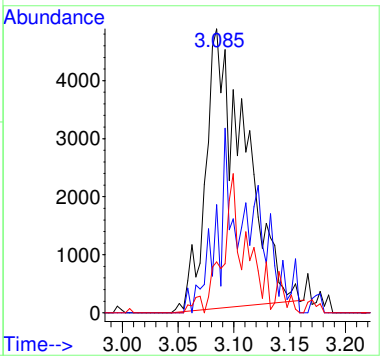


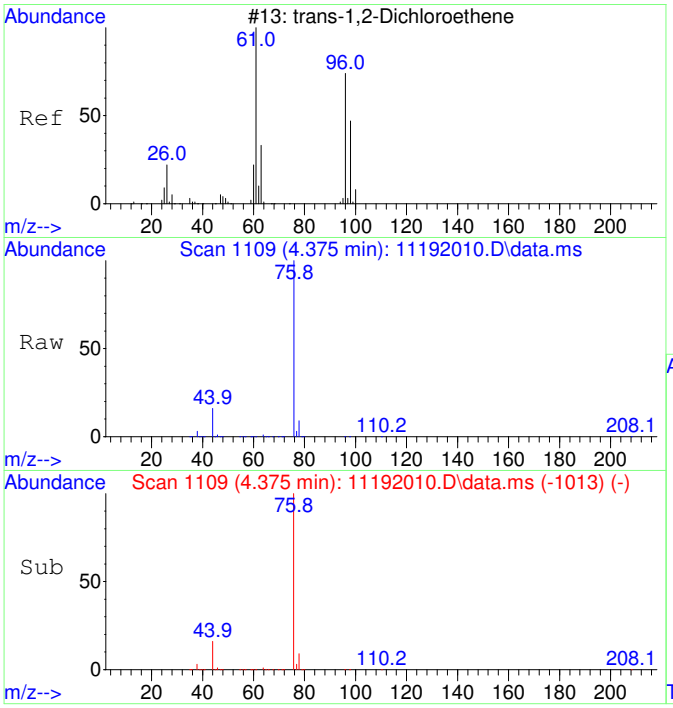


#26
1,1-Dichloroethene SCAN
Concen: 962.24 ug/L
RT: 3.085 min Scan# 807
Delta R.T. 0.007 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 61 Resp: 11818

Ion	Ratio	Lower	Upper
61	100		
96	12.5	33.1	93.1#
98	12.0	11.2	71.2

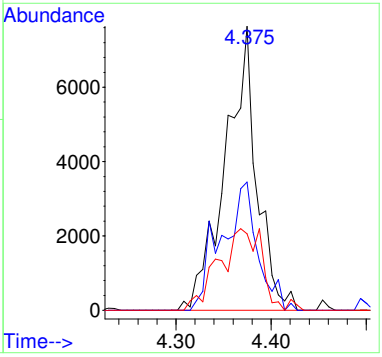


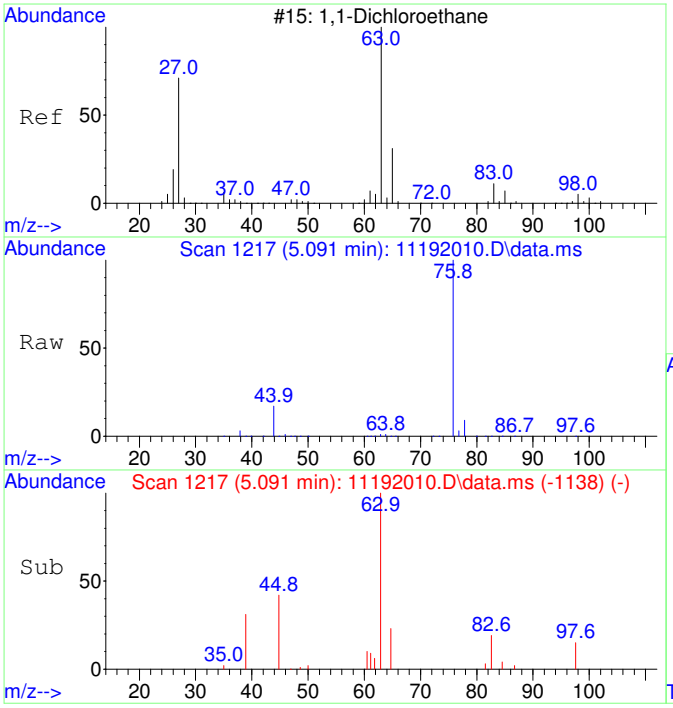


#27
trans-1,2-Dichloroethene SCAN
Concen: 1165.56 ug/L
RT: 4.375 min Scan# 1109
Delta R.T. 0.026 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 61 Resp: 17714

Ion	Ratio	Lower	Upper
61	100		
96	51.9	49.0	109.0
98	38.6	20.5	80.5

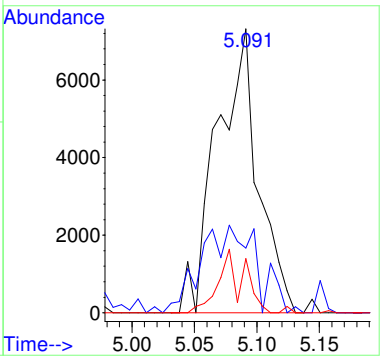


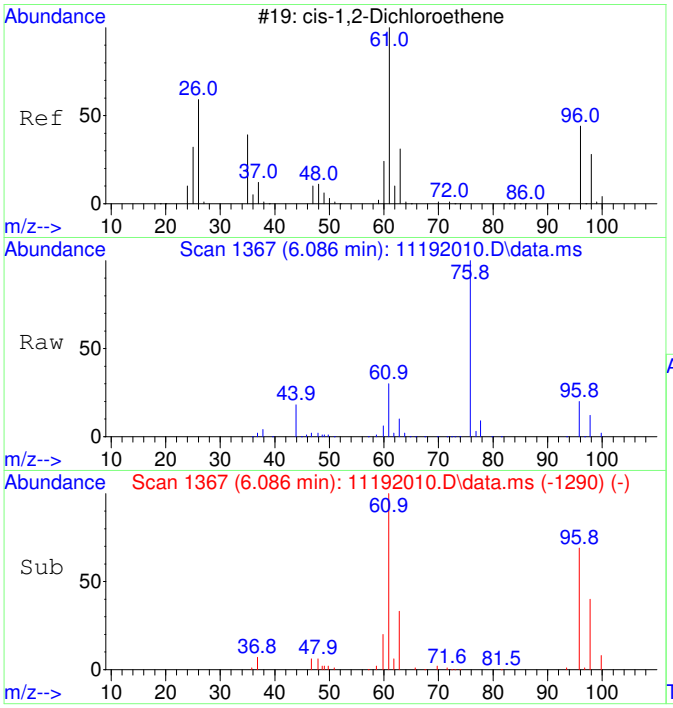


#28
1,1-Dichloroethane SCAN
Concen: 955.39 ug/L
RT: 5.091 min Scan# 1217
Delta R.T. 0.026 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 63 Resp: 16804

Ion	Ratio	Lower	Upper
63	100		
65	42.0	1.3	61.3
83	13.5	0.0	45.9

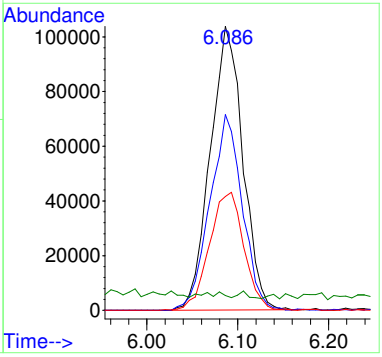


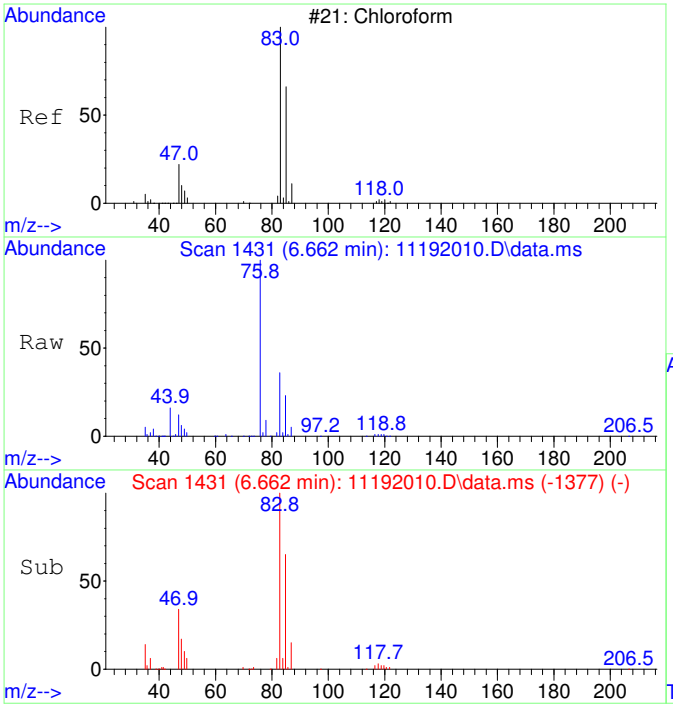


#29
cis-1,2-Dichloroethene SCAN
Concen: 13758.91 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 61 Resp: 259279

Ion	Ratio	Lower	Upper
61	100		
96	68.5	39.9	99.9
98	44.1	13.5	73.5
64	1.1	4.5	64.5#

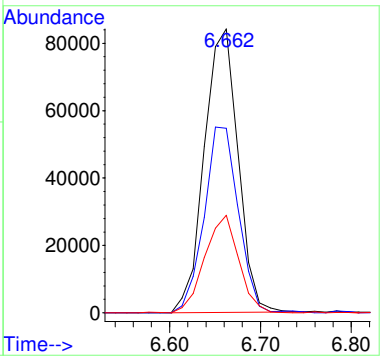


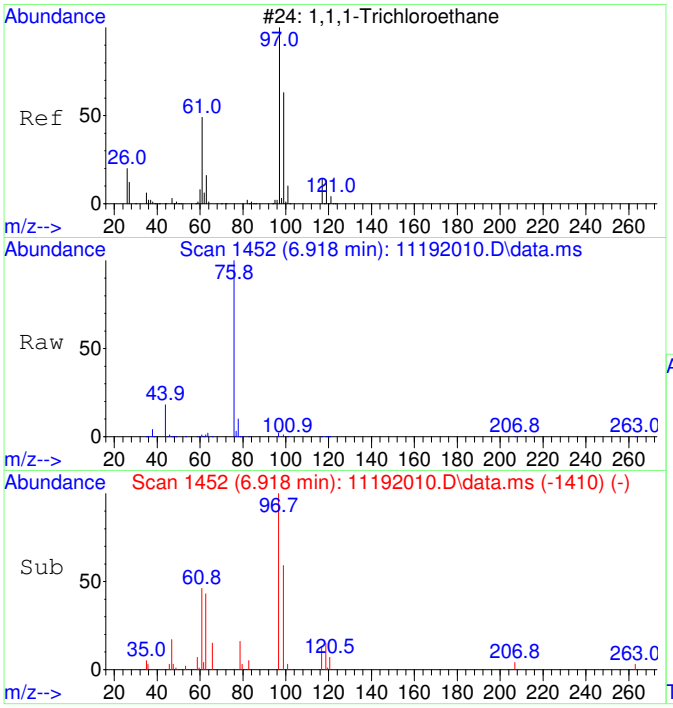


#30
Chloroform SCAN
Concen: 10672.02 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 83 Resp: 218130

Ion	Ratio	Lower	Upper
83	100		
85	66.6	34.6	94.6
47	34.7	0.0	53.4

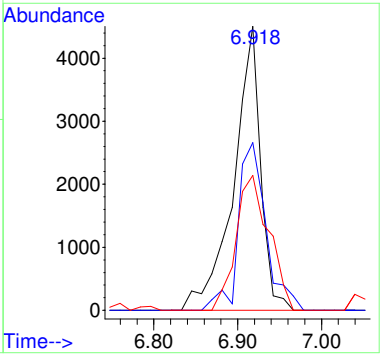


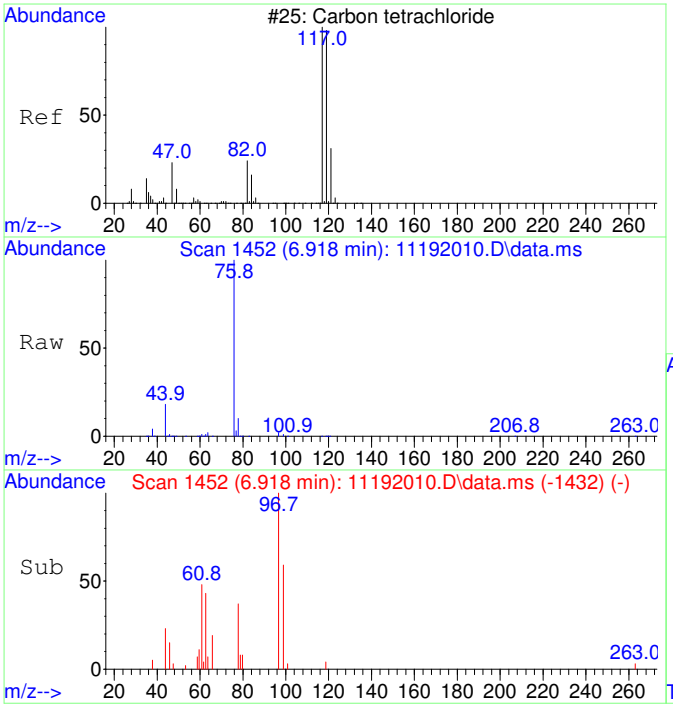


#31
1,1,1-Trichloroethane SCAN
Concen: 539.83 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 97 Resp: 10055

Ion	Ratio	Lower	Upper
97	100		
99	60.5	43.6	103.6
61	57.9	18.0	78.0

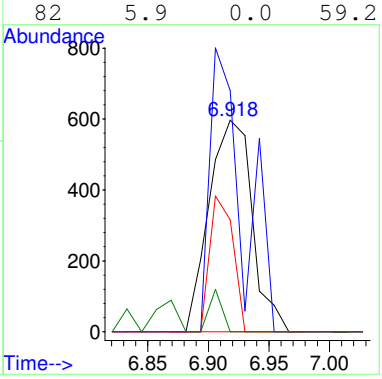


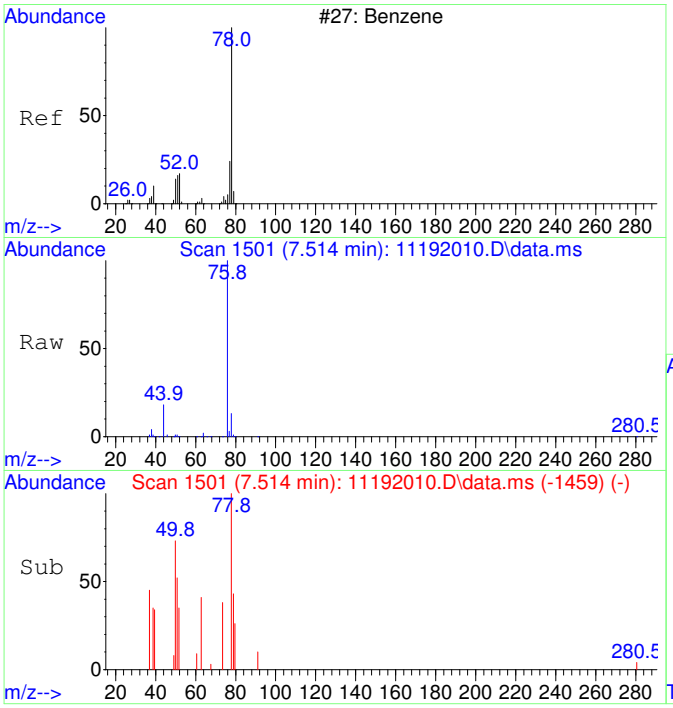


#32
Carbon tetrachloride SCAN
Concen: 76.33 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. -0.255 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:117 Resp: 1483

Ion	Ratio	Lower	Upper
117	100		
119	102.6	75.5	135.5
121	34.4	0.0	58.8
82	5.9	0.0	59.2

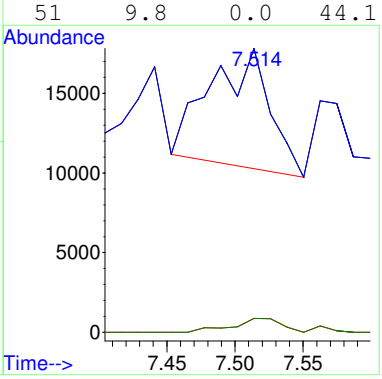


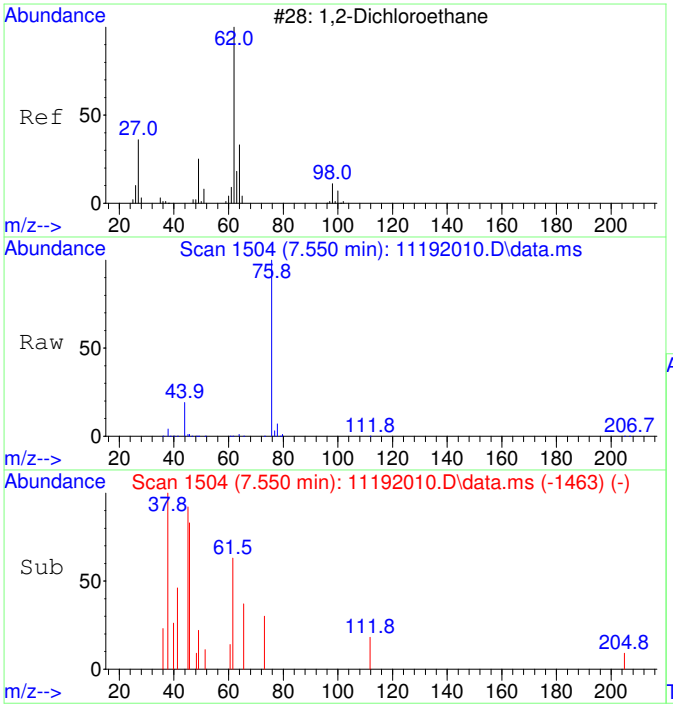


#33
Benzene SCAN
Concen: 429.99 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.012 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 78 Resp: 22052

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	9.8	0.0	47.9
51	9.8	0.0	44.1

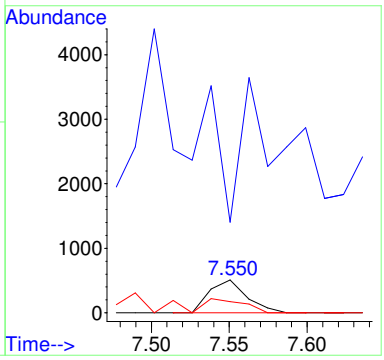


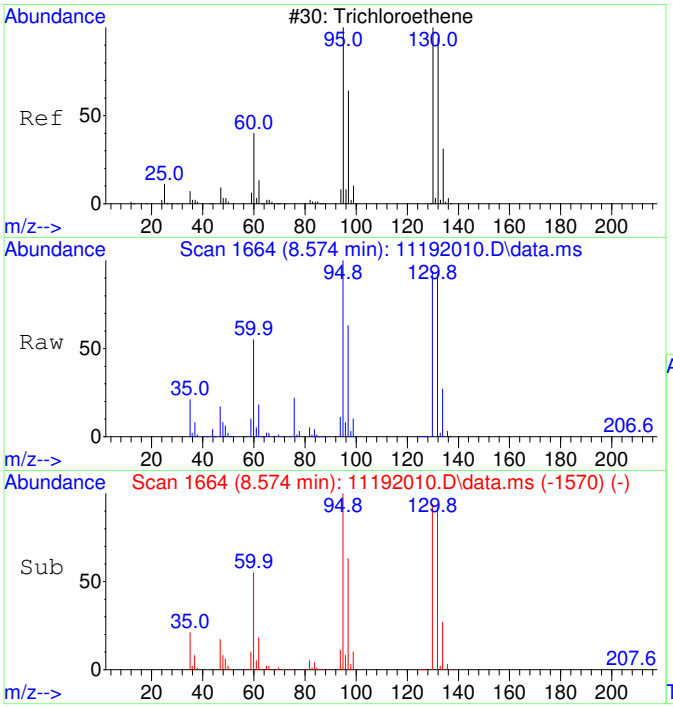


#34
1,2-Dichloroethane SCAN
Concen: 44.94 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 62 Resp: 851

Ion	Ratio	Lower	Upper
62	100		
64	449.0	5.2	65.2#
49	0.0	3.9	63.9#

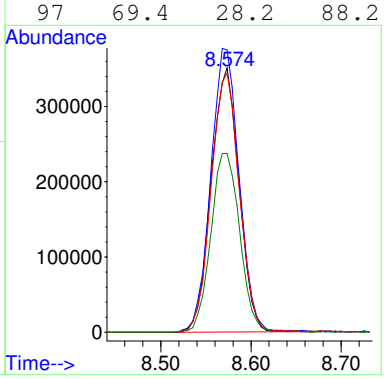


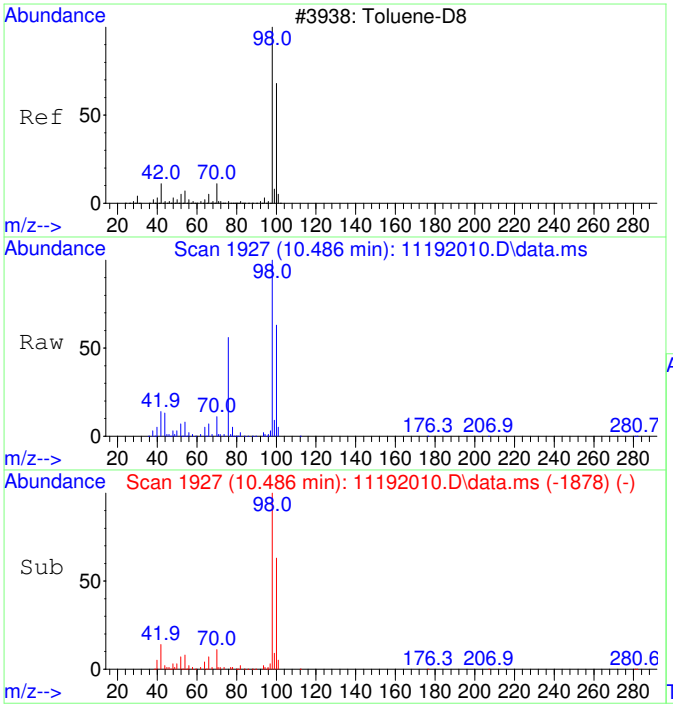


#35
Trichloroethene SCAN
Concen: 53667.02 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:130 Resp: 756347

Ion	Ratio	Lower	Upper
130	100		
95	108.2	60.5	120.5
132	98.6	59.6	119.6
97	69.4	28.2	88.2

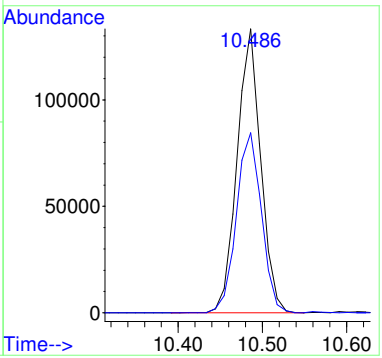


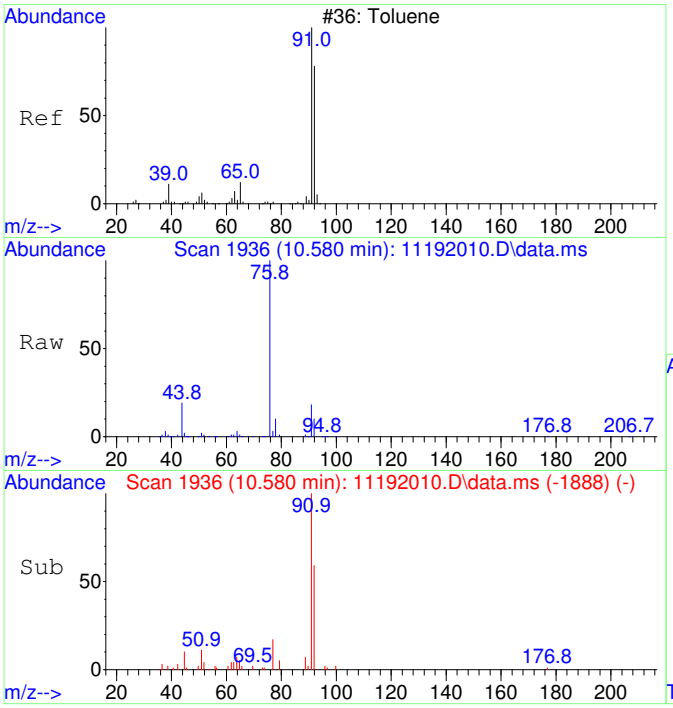


#36
Toluene-d8 SCAN
Concen: 4609.79 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 98 Resp: 260719

Ion	Ratio	Lower	Upper
98	100		
100	67.0	40.0	100.0

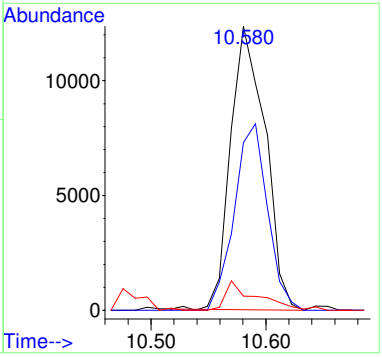


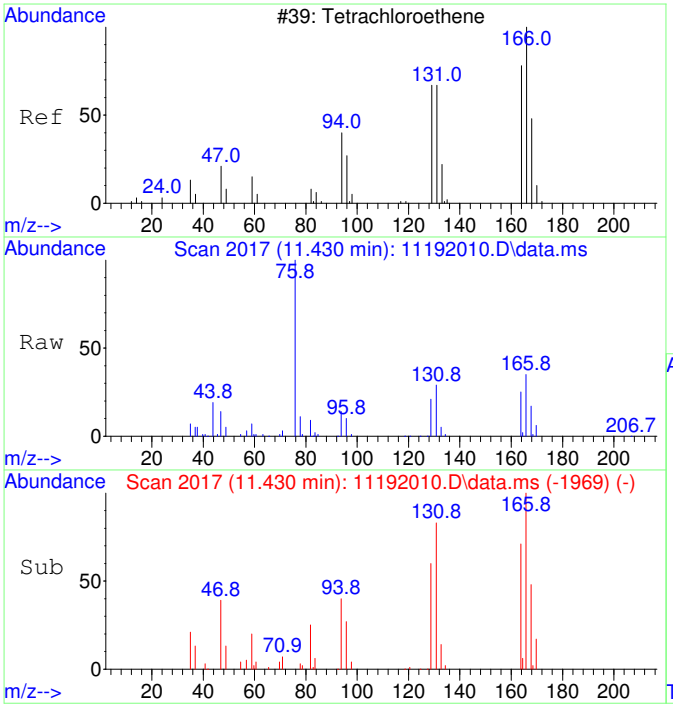


#37
Toluene SCAN
Concen: 357.40 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 25887

Ion	Ratio	Lower	Upper
91	100		
92	63.4	28.3	88.3
65	0.0	0.0	41.0

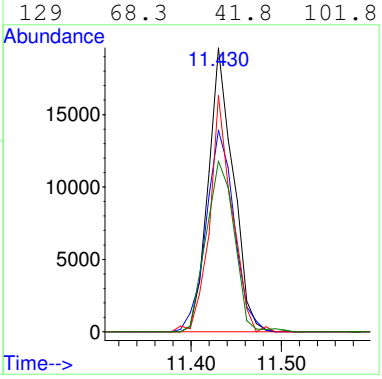


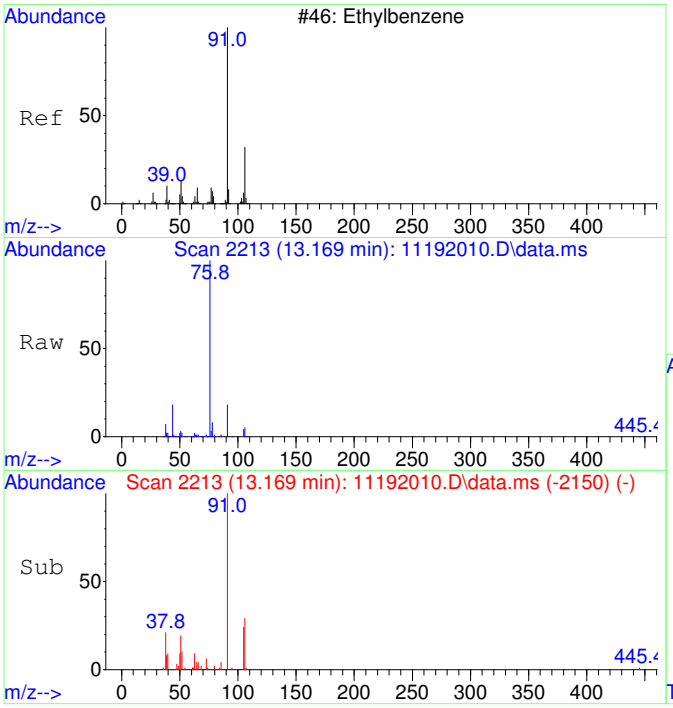


#39
Tetrachloroethene SCAN
Concen: 2164.16 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:166 Resp: 37659

Ion	Ratio	Lower	Upper
166	100		
164	80.0	50.9	110.9
131	74.4	38.7	98.7
129	68.3	41.8	101.8

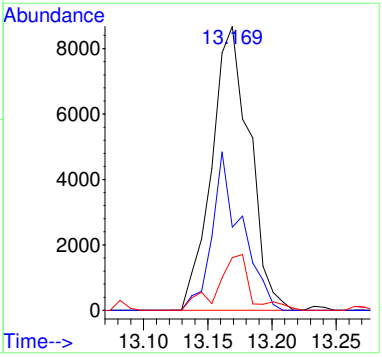


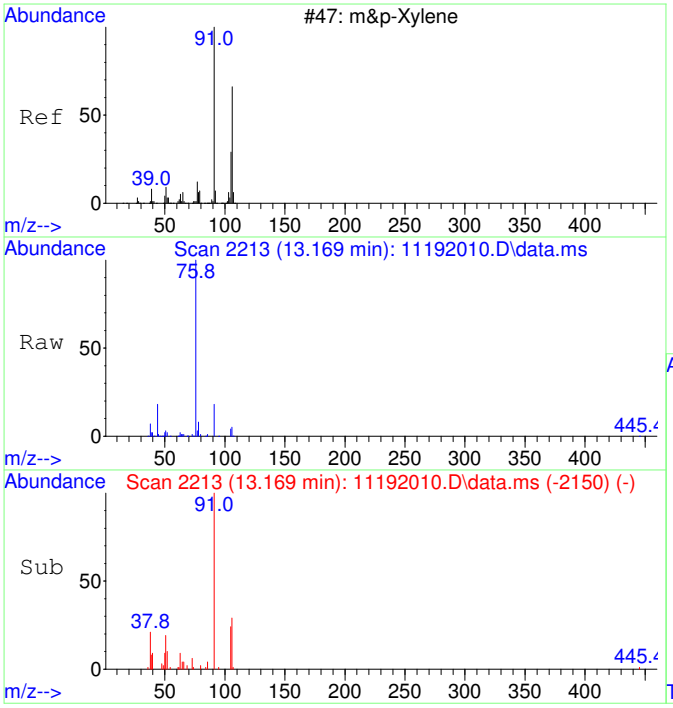


#42
Ethylbenzene SCAN
Concen: 135.39 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 17865

Ion	Ratio	Lower	Upper
91	100		
106	42.9	23.1	83.1
51	16.9	0.0	40.1

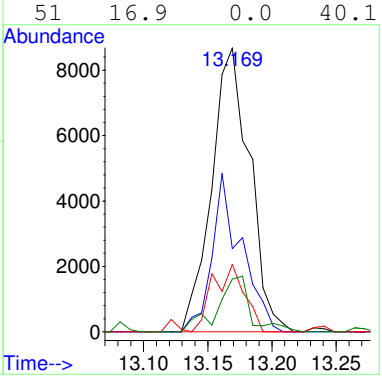


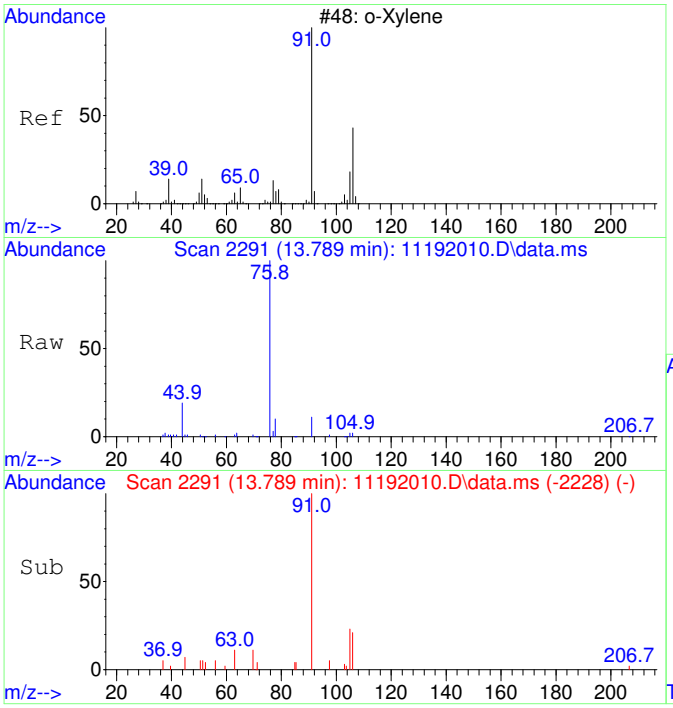


#43
m&p-Xylene SCAN
Concen: 135.39 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 17865

Ion	Ratio	Lower	Upper
91	100		
106	42.9	23.1	83.1
105	19.8	0.0	54.7
51	16.9	0.0	40.1

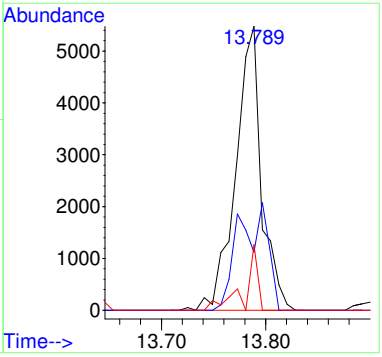


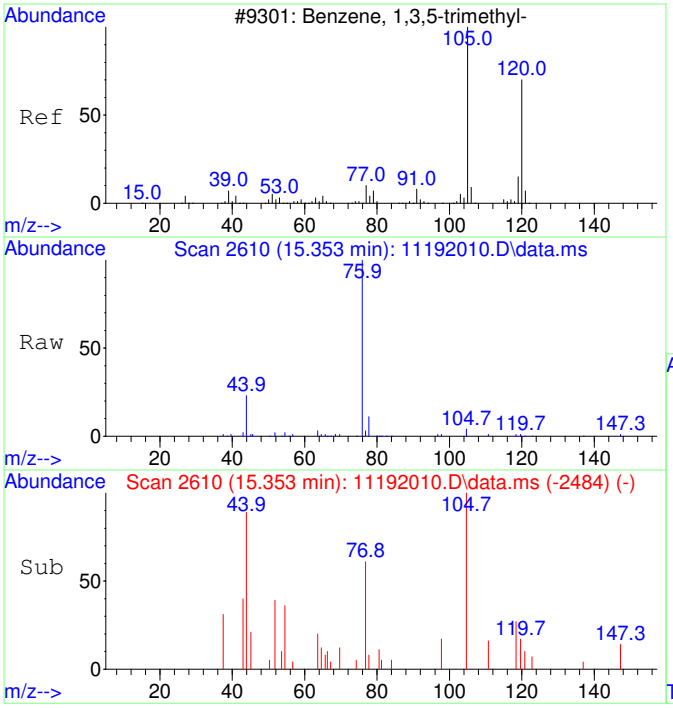


#44
o-Xylene SCAN
Concen: 132.98 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion: 91 Resp: 9393

Ion	Ratio	Lower	Upper
91	100		
106	42.6	18.0	78.0
105	11.3	0.0	56.6

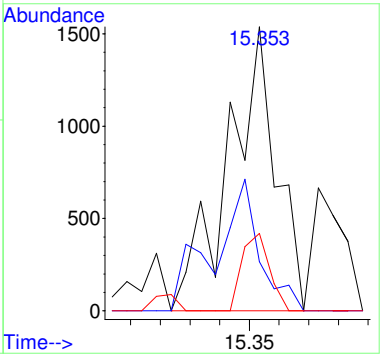


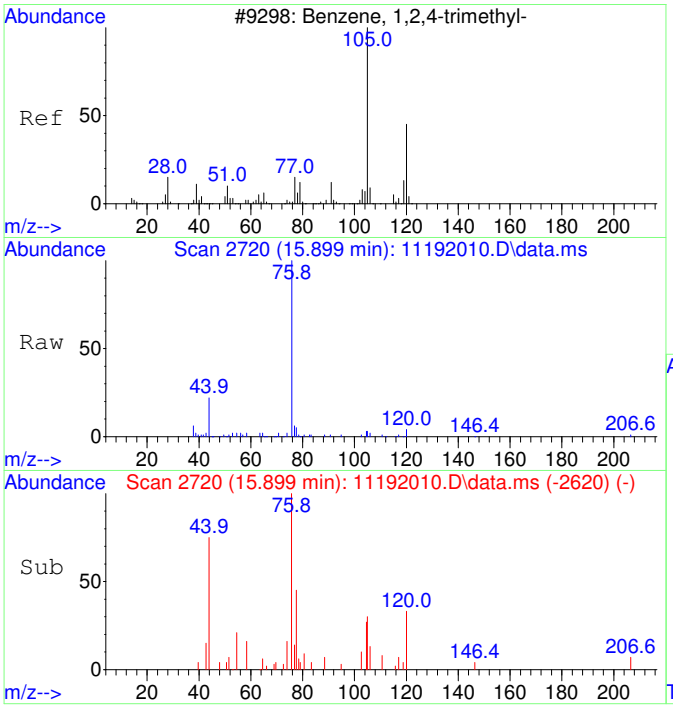


#46
1,3,5-Trimethylbenzene SCAN
Concen: 23.28 ug/L
RT: 15.353 min Scan# 2610
Delta R.T. 0.010 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:105 Resp: 1733

Ion	Ratio	Lower	Upper
105	100		
120	44.0	18.3	78.3
119	15.8	0.0	43.1

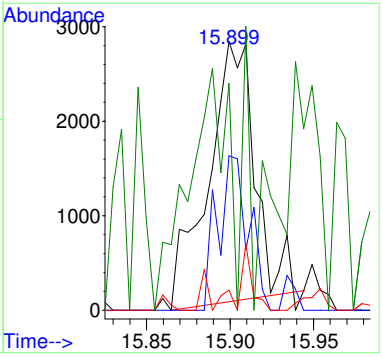




#47
1,2,4-Trimethylbenzene SCAN
Concen: 70.12 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.005 min
Lab File: 11192010.D
Acq: 19 Nov 2020 11:55

Tgt Ion:105 Resp: 5341

Ion	Ratio	Lower	Upper
105	100		
120	39.3	16.9	76.9
119	3.9	0.0	41.9
77	0.0	0.0	42.3



2011017-21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192011.D
Acq On : 19 Nov 2020 12:19
InstName : AG5975C
Operator : TD
Sample : 2011017-21
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 23 08:14:24 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

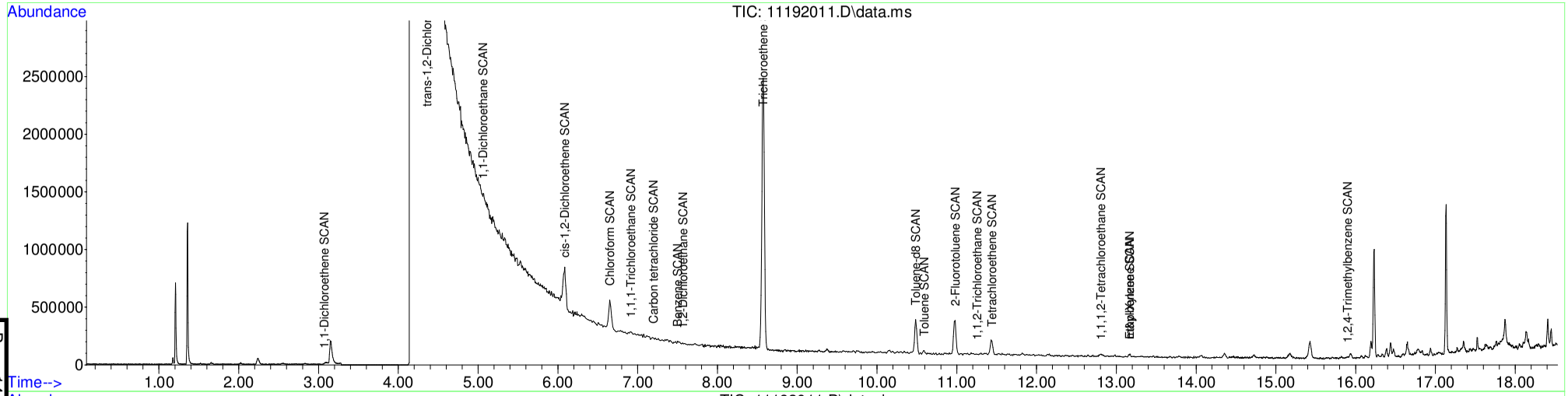
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	524159	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	445531	4341.99 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.84%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	22833	1090.90 ug/L	85
3] trans-1,2-Dichloroethene	4.356	61	28690	1186.40 ug/L	99
4] 1,1-Dichloroethane	5.072	63	27838	924.77 ug/L	98
5] cis-1,2-Dichloroethene	6.081	61	512571	16131.11 ug/L	99
6] Chloroform	6.651	83	405490	12467.70 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	20131	569.95 ug/L	99
8] Carbon tetrachloride	7.175	117	4180	125.74 ug/L	99
9] Benzene	7.503	78	17756	199.38 ug/L	83
10] 1,2-Dichloroethane	7.539	62	1806	56.81 ug/L	63
11] Trichloroethene	8.575	130	1828205	68180.84 ug/L OC	94
13] Toluene	10.582	91	40488	309.50 ug/L	99
15] Tetrachloroethene	11.432	166	97837	2584.28 ug/L	100
18] Ethylbenzene	12.972	91	9790	61.48 ug/L	96
19] m&p-Xylene	13.162	91	26244	210.88 ug/L	95
20] o-Xylene	13.782	91	13492	101.47 ug/L	96
22] 1,3,5-Trimethylbenzene	15.350	105	3502	24.75 ug/L	87
23] 1,2,4-Trimethylbenzene	15.901	105	9895	67.31 ug/L	87
25) 2-Fluorotoluene SCAN	10.979	109	254112	4973.24 ug/L	98
26) 1,1-Dichloroethene SCAN	3.073	61	2336	215.27 ug/L	82
27) trans-1,2-Dichloroethe...	4.354	61	16216	1207.65 ug/L	83
28) 1,1-Dichloroethane SCAN	5.064	63	15385	990.03 ug/L	87
29) cis-1,2-Dichloroethene...	6.080	61	279218	16770.29 ug/L #	86
30) Chloroform SCAN	6.650	83	222800	12337.49 ug/L	97
31) 1,1,1-Trichloroethane ...	6.918	97	10091	613.19 ug/L	87
32) Carbon tetrachloride SCAN	7.198	117	1691	98.51 ug/L #	26
33) Benzene SCAN	7.502	78	15036	331.84 ug/L	96
34) 1,2-Dichloroethane SCAN	7.562	62	1063	63.53 ug/L #	1
35) Trichloroethene SCAN	8.568	130	850978	68341.63 ug/L	85
36) Toluene-d8 SCAN	10.486	98	226798	4538.67 ug/L	91
37) Toluene SCAN	10.591	91	23467	366.70 ug/L	89
38) 1,1,2-Trichloroethane ...	11.252	97	778	54.16 ug/L #	13
39) Tetrachloroethene SCAN	11.441	166	42497	2764.14 ug/L	92
41) 1,1,1,2-Tetrachloroeth...	12.804	131	891	55.06 ug/L #	38
42) Ethylbenzene SCAN	13.169	91	13964	119.77 ug/L	86
43) m&p-Xylene SCAN	13.169	91	13964	119.77 ug/L	90
47) 1,2,4-Trimethylbenzene...	15.894	105	5568	82.74 ug/L #	52

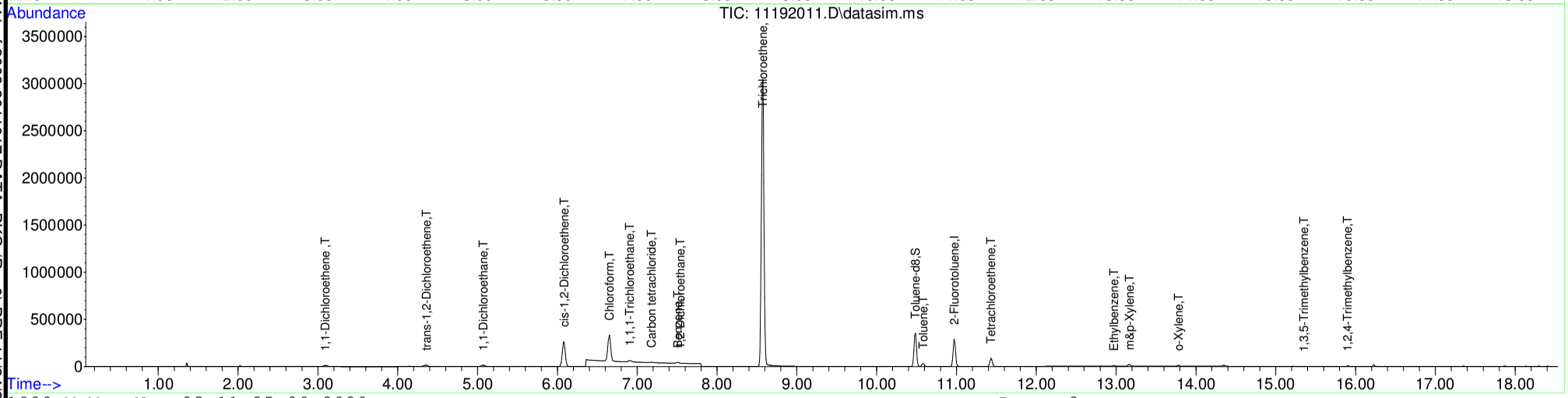
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192011.D
Acq On : 19 Nov 2020 12:19
InstName : AG5975C
Operator : TD
Sample : 2011017-21
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 23 08:14:24 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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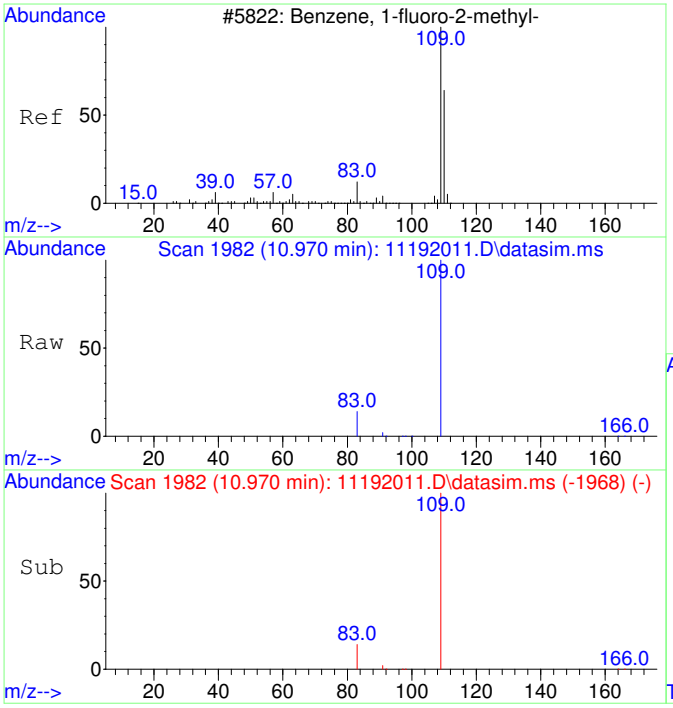
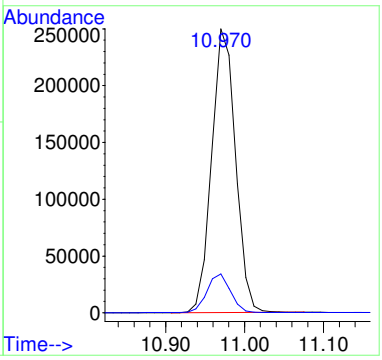
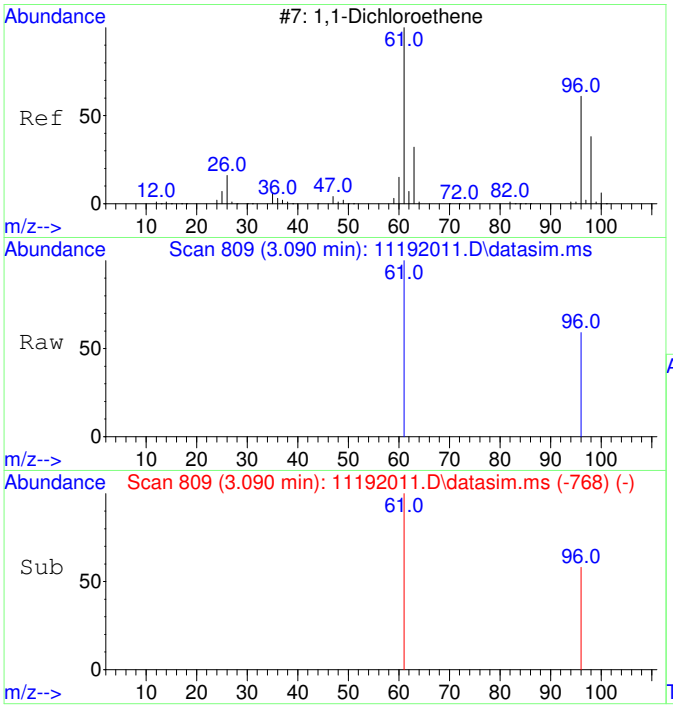


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion:109 Resp: 524159

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

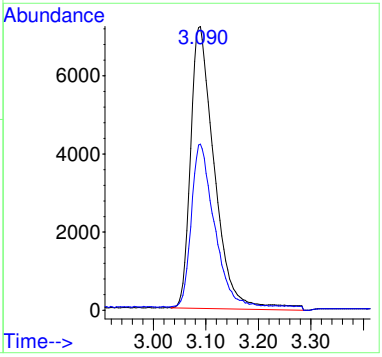


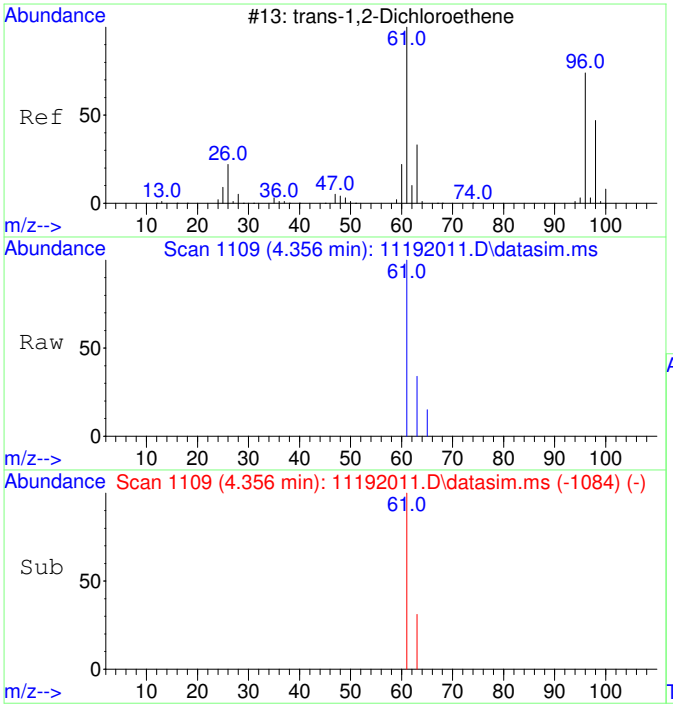


#2
1,1-Dichloroethene
Concen: 1090.90 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 61 Resp: 22833

Ion	Ratio	Lower	Upper
61	100		
96	54.8	37.2	97.2

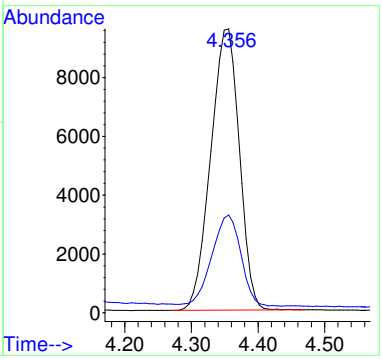


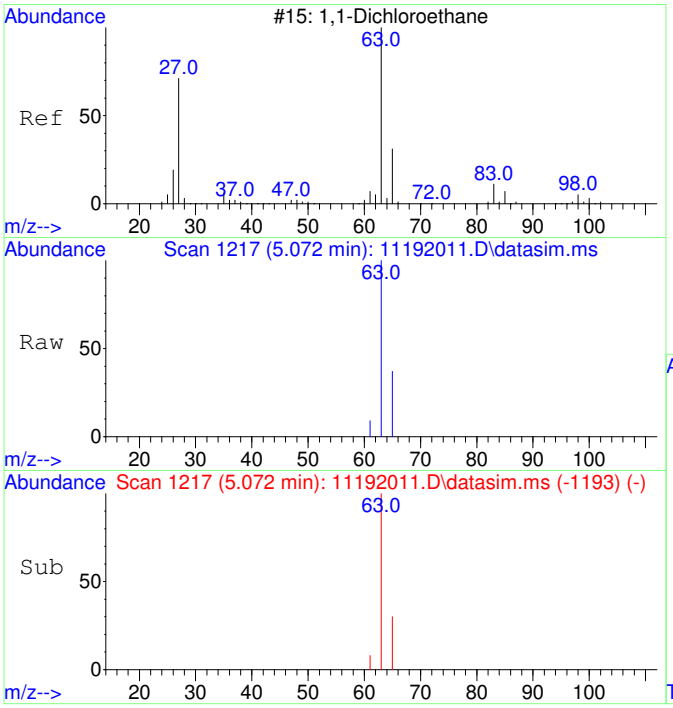


#3
trans-1,2-Dichloroethene
Concen: 1186.40 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 61 Resp: 28690

Ion	Ratio	Lower	Upper
61	100		
63	32.8	2.4	62.4

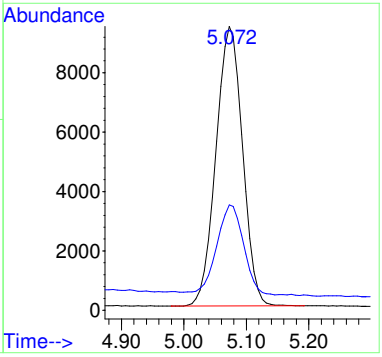


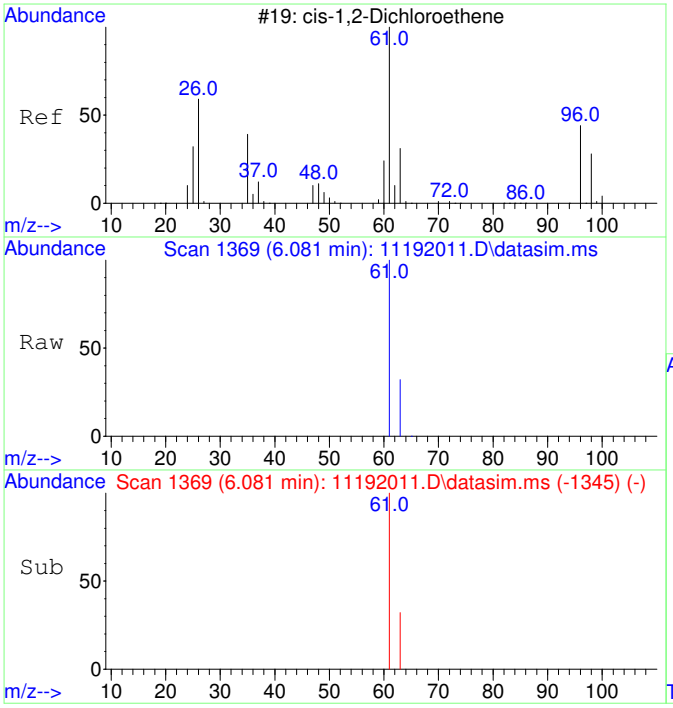


#4
1,1-Dichloroethane
Concen: 924.77 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.006 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 63 Resp: 27838

Ion	Ratio	Lower	Upper
63	100		
65	32.7	1.8	61.8

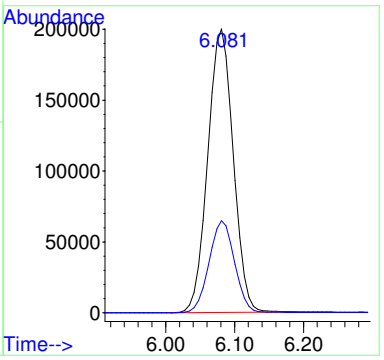


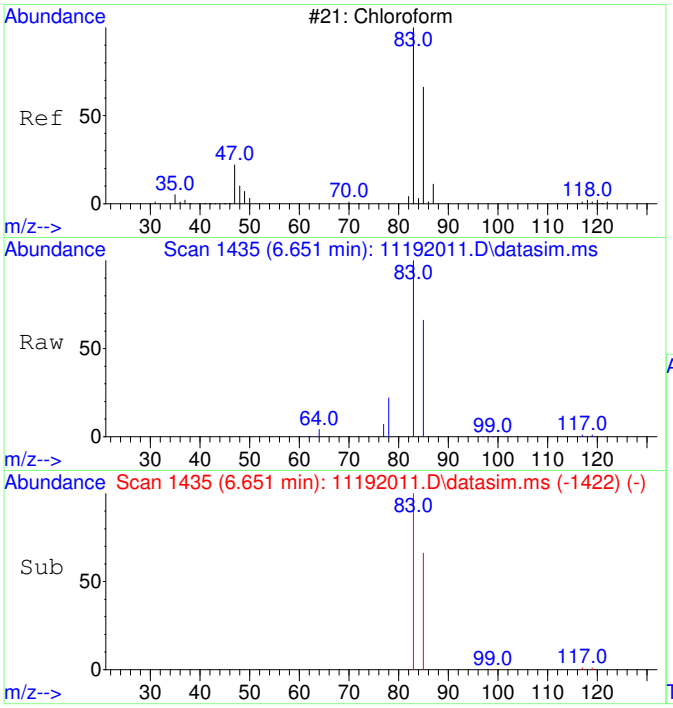


#5
cis-1,2-Dichloroethene
Concen: 16131.11 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.006 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 61 Resp: 512571

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.5	62.5

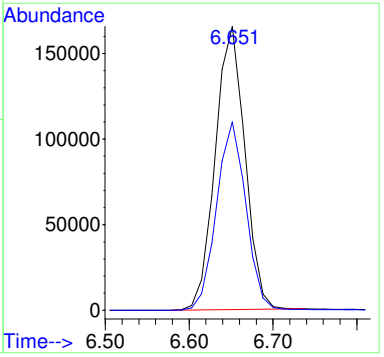


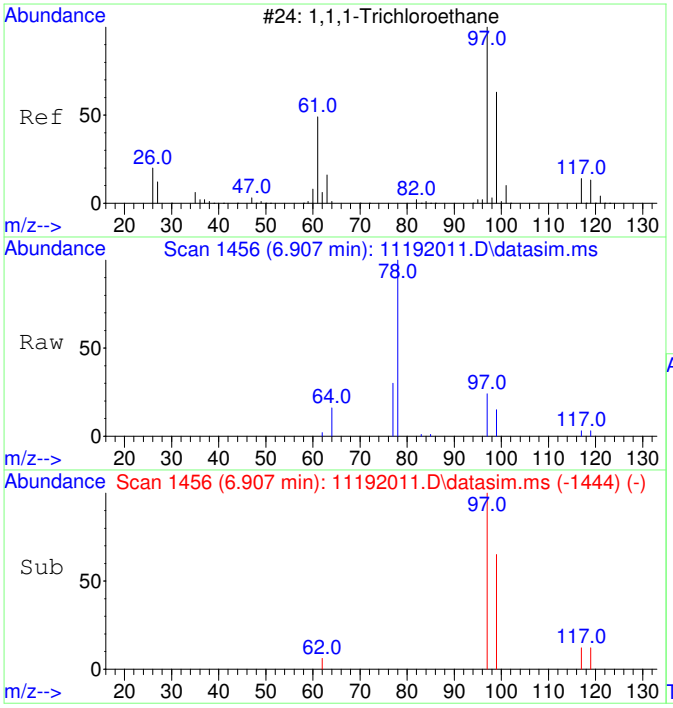


#6
Chloroform
Concen: 12467.70 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 83 Resp: 405490

Ion	Ratio	Lower	Upper
83	100		
85	65.4	35.1	95.1

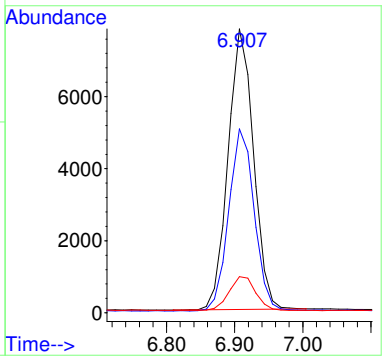


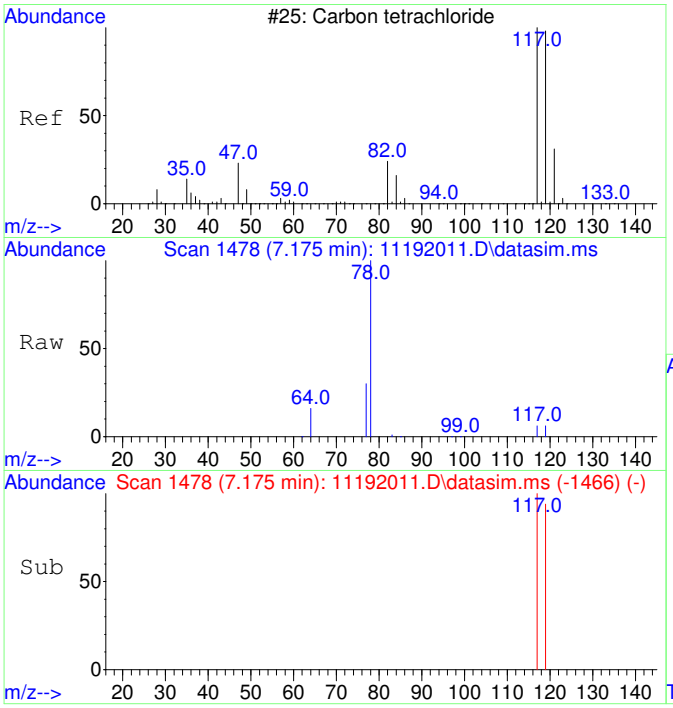


#7
1,1,1-Trichloroethane
Concen: 569.95 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 97 Resp: 20131

Ion	Ratio	Lower	Upper
97	100		
99	64.9	34.6	94.6
117	12.6	0.0	43.2

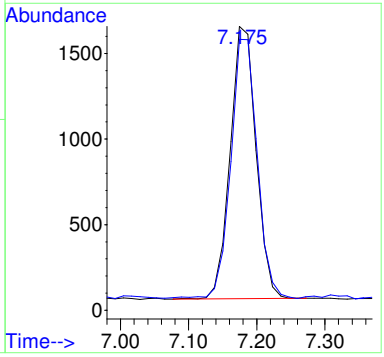


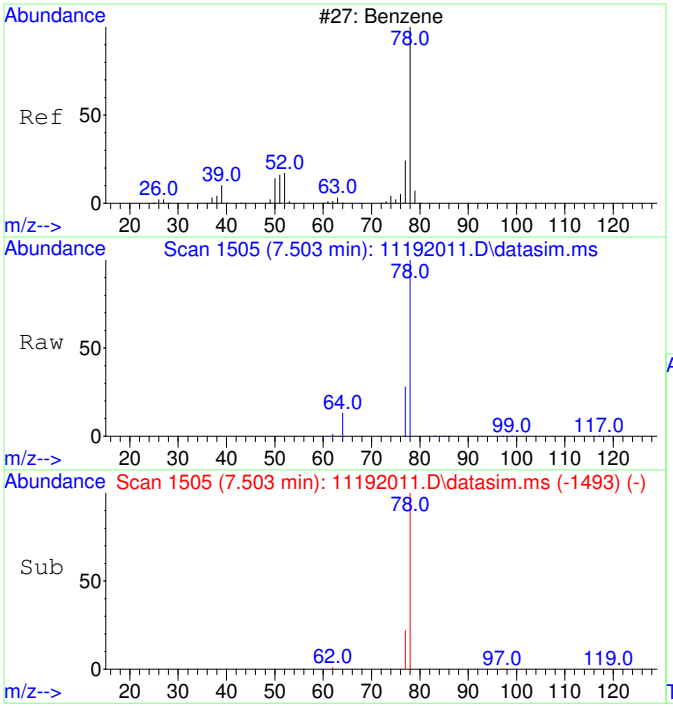


#8
Carbon tetrachloride
Concen: 125.74 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion:117 Resp: 4180

Ion	Ratio	Lower	Upper
117	100		
119	97.1	66.4	126.4

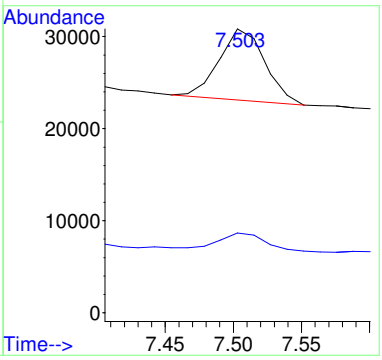


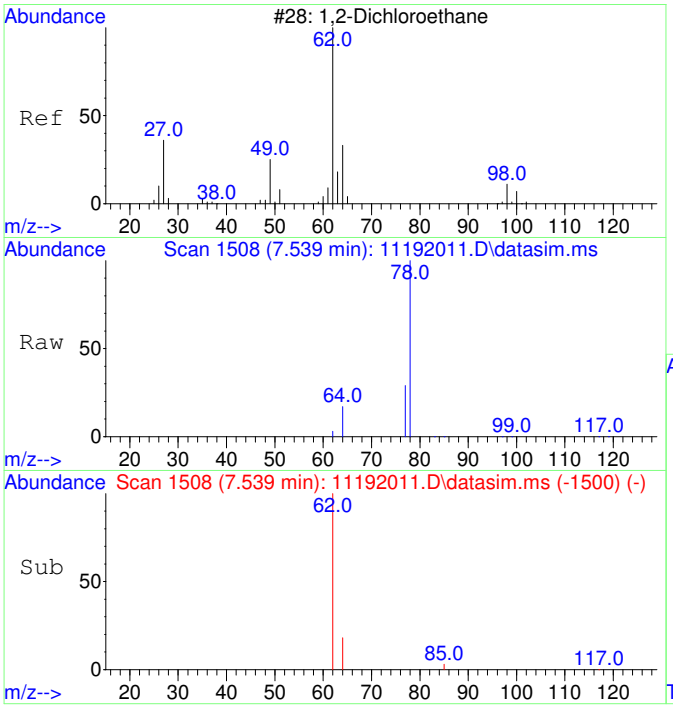


#9
Benzene
Concen: 199.38 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 78 Resp: 17756

Ion	Ratio	Lower	Upper
78	100		
77	31.5	0.0	53.2

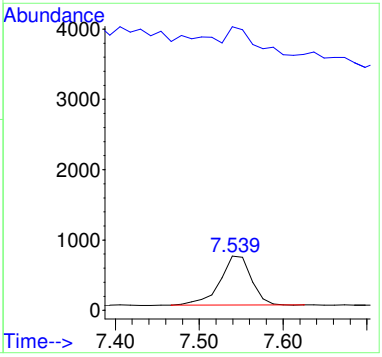


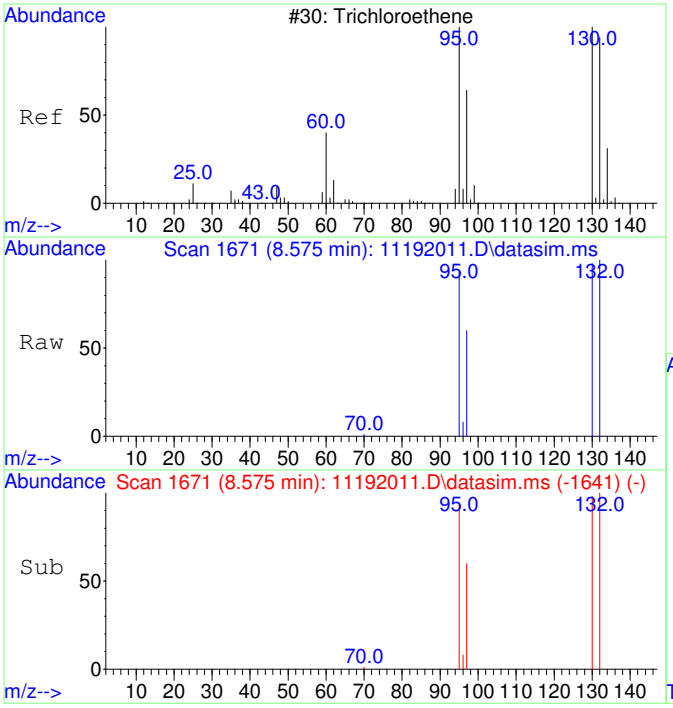


#10
1,2-Dichloroethane
Concen: 56.81 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 62 Resp: 1806

Ion	Ratio	Lower	Upper
62	100		
64	53.3	2.3	62.3

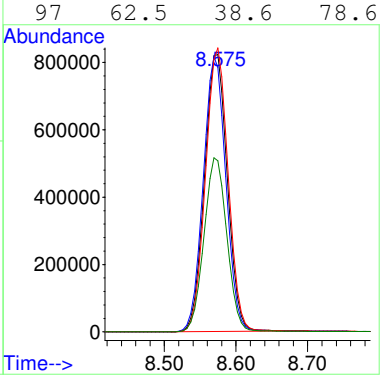


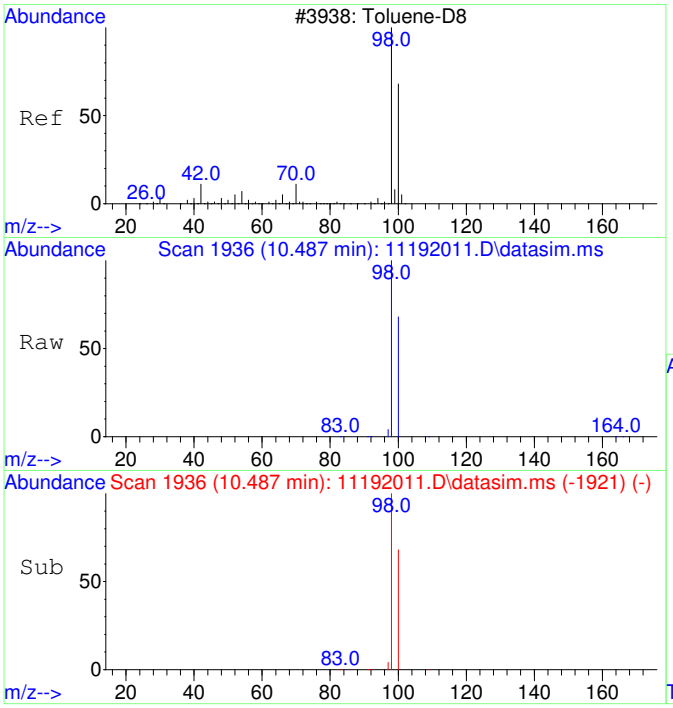


#11
Trichloroethene
Concen: 68180.84 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion:130 Resp: 1828205

Ion	Ratio	Lower	Upper
130	100		
95	98.0	60.7	120.7
132	100.9	76.0	116.0
97	62.5	38.6	78.6

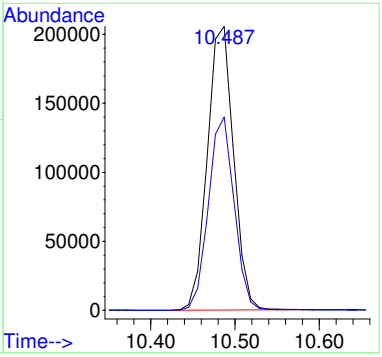


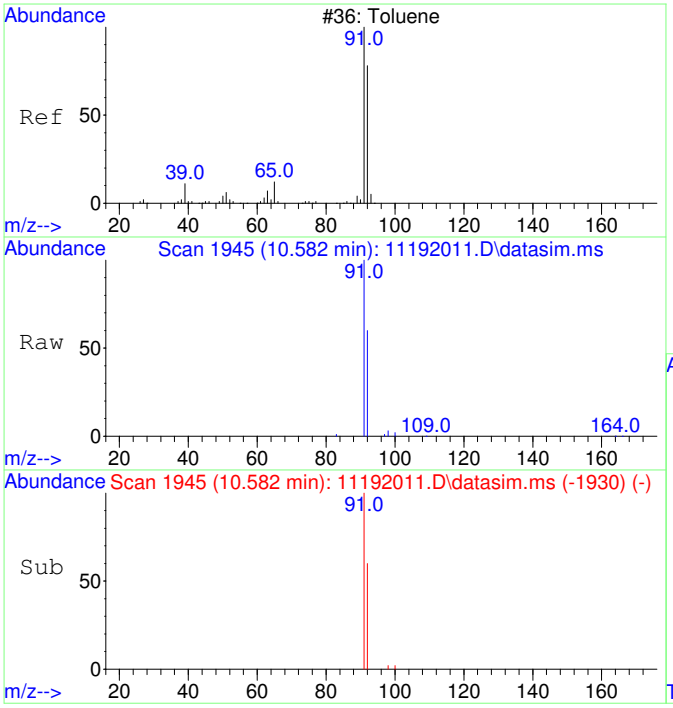


#12
Toluene-d8
Concen: 4341.99 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 98 Resp: 445531

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

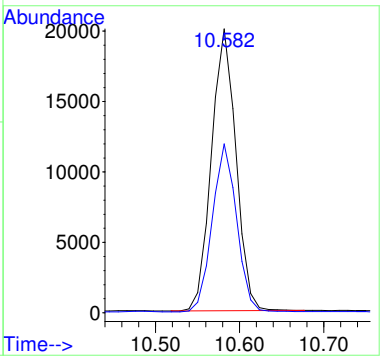


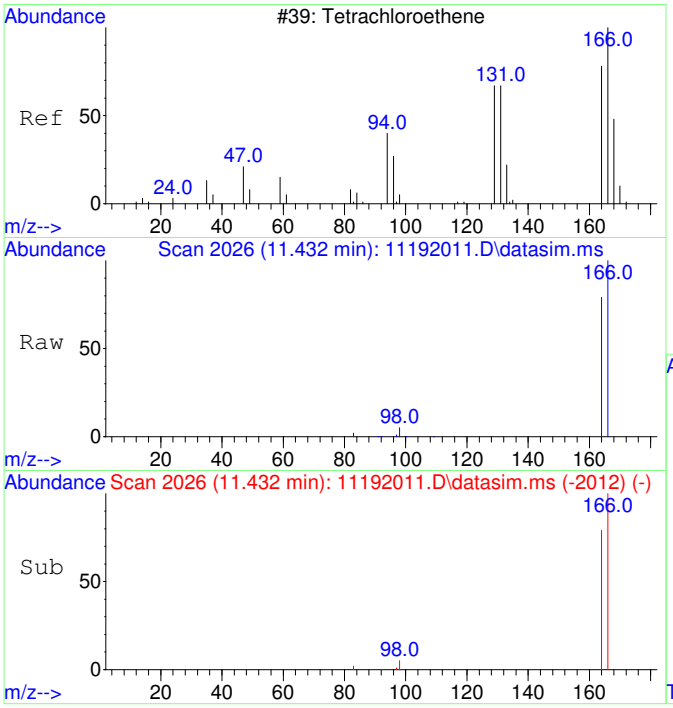


#13
Toluene
Concen: 309.50 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 91 Resp: 40488

Ion	Ratio	Lower	Upper
91	100		
92	58.8	29.9	89.9

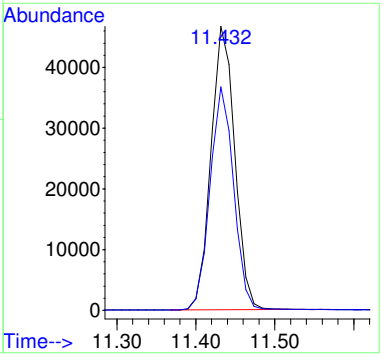


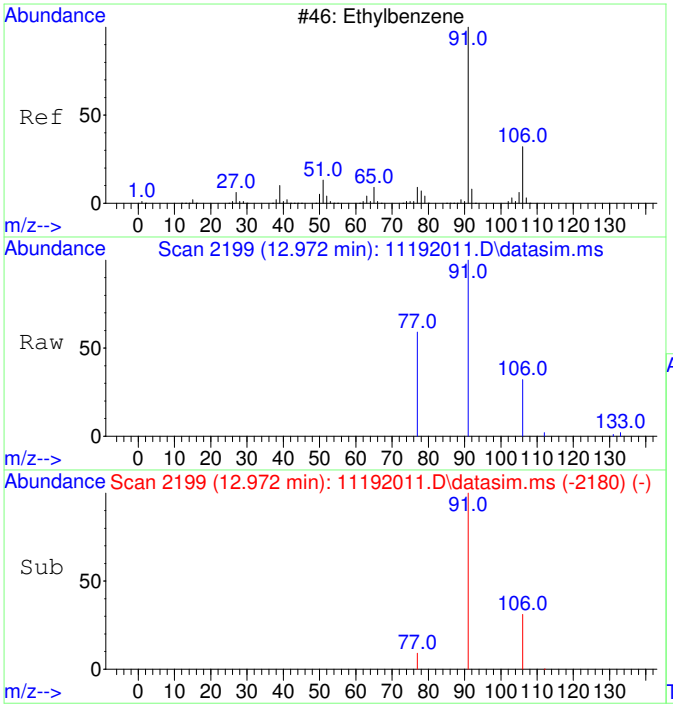


#15
Tetrachloroethene
Concen: 2584.28 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion:166 Resp: 97837

Ion	Ratio	Lower	Upper
166	100		
164	77.6	47.8	107.8

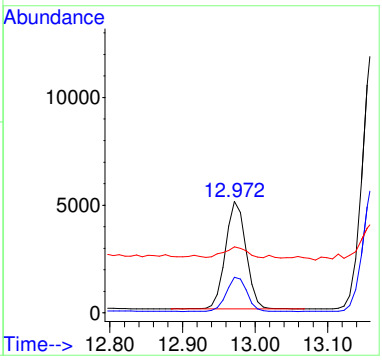


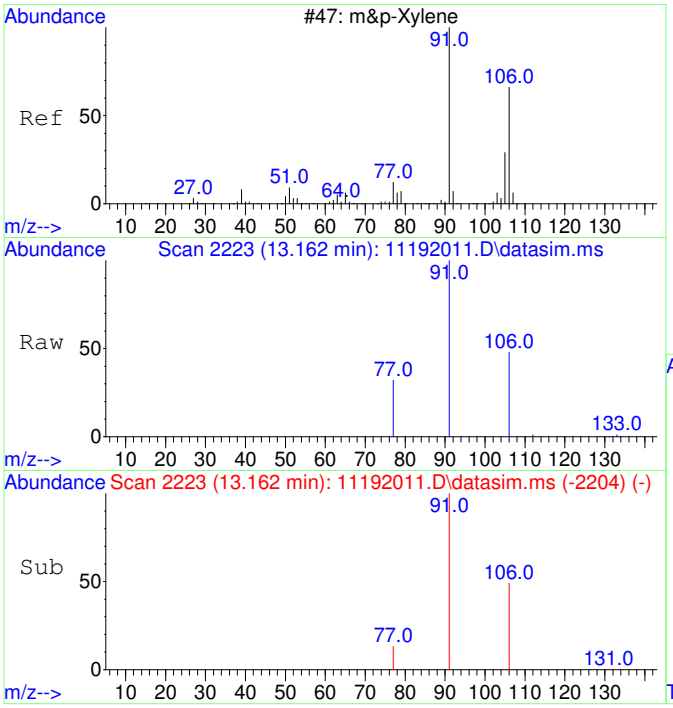


#18
Ethylbenzene
Concen: 61.48 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 91 Resp: 9790

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	12.3	0.0	38.2

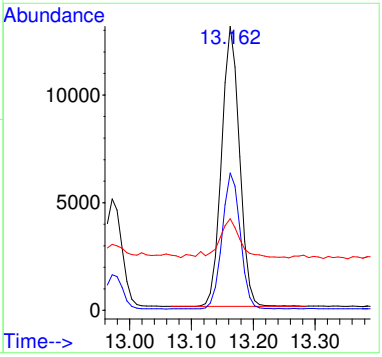


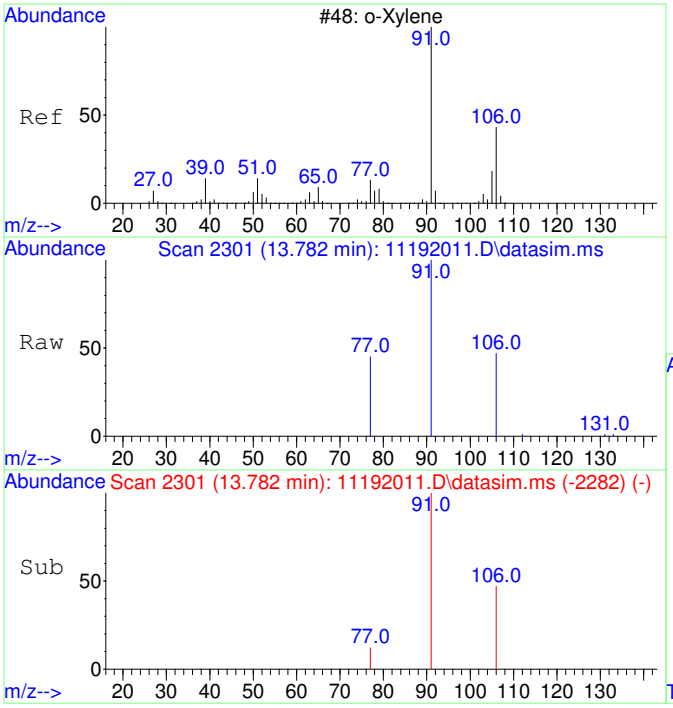


#19
m&p-Xylene
Concen: 210.88 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 91 Resp: 26244

Ion	Ratio	Lower	Upper
91	100		
106	49.0	22.2	82.2
77	15.5	0.0	42.4

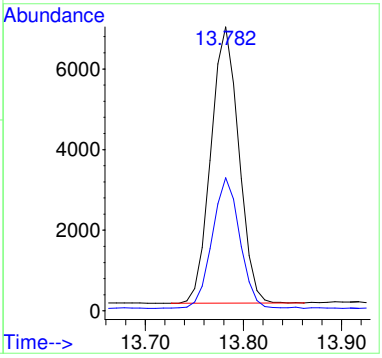


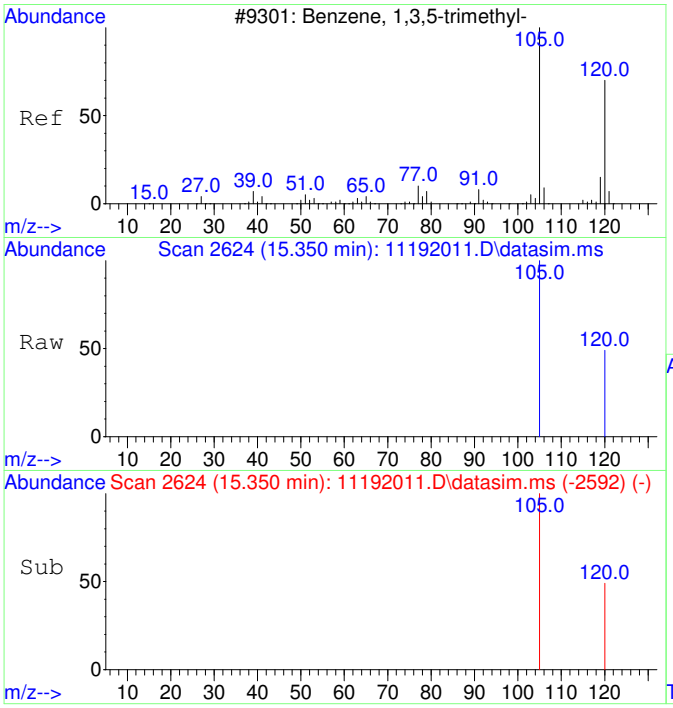


#20
o-Xylene
Concen: 101.47 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 91 Resp: 13492

Ion	Ratio	Lower	Upper
91	100		
106	46.4	19.2	79.2

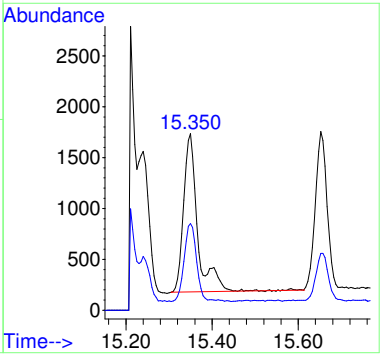


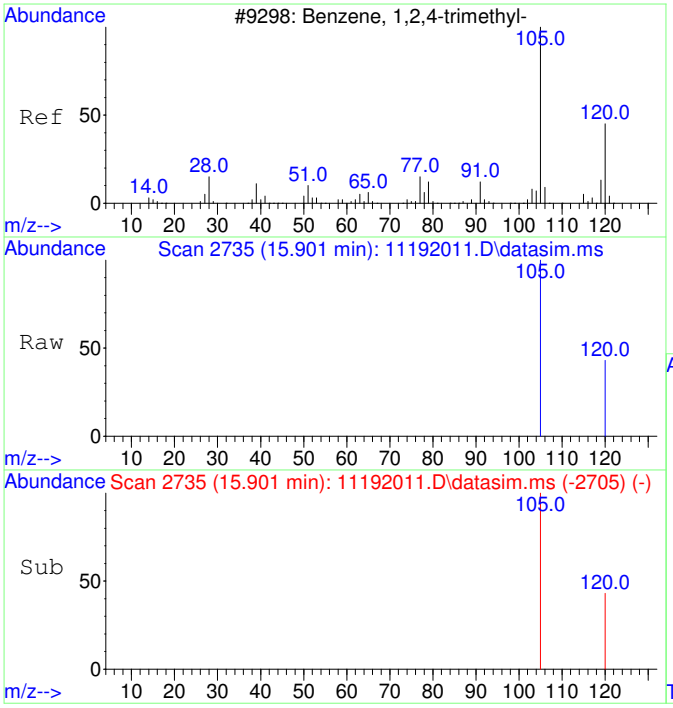


#22
1,3,5-Trimethylbenzene
Concen: 24.75 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion:105 Resp: 3502

Ion	Ratio	Lower	Upper
105	100		
120	41.9	21.1	81.1

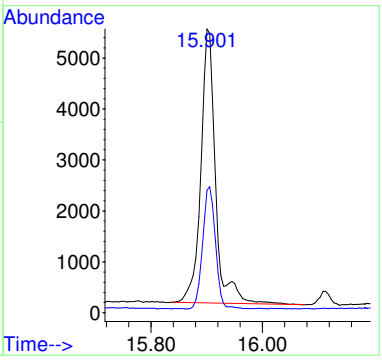


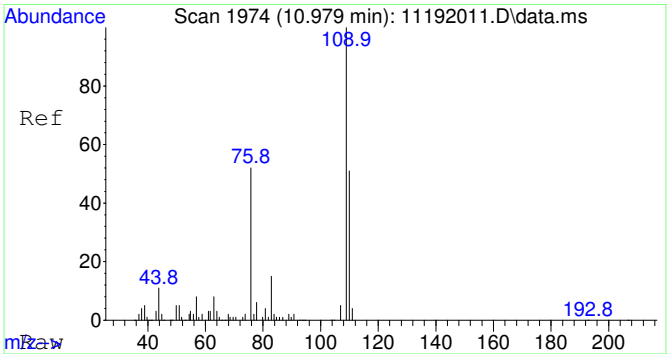


#23
1,2,4-Trimethylbenzene
Concen: 67.31 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion:105 Resp: 9895

Ion	Ratio	Lower	Upper
105	100		
120	38.6	17.2	77.2

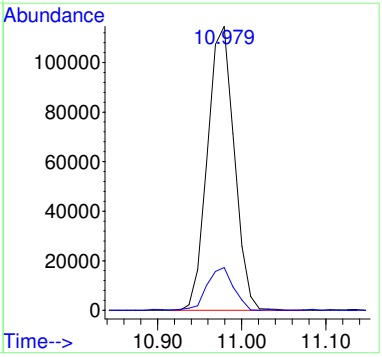


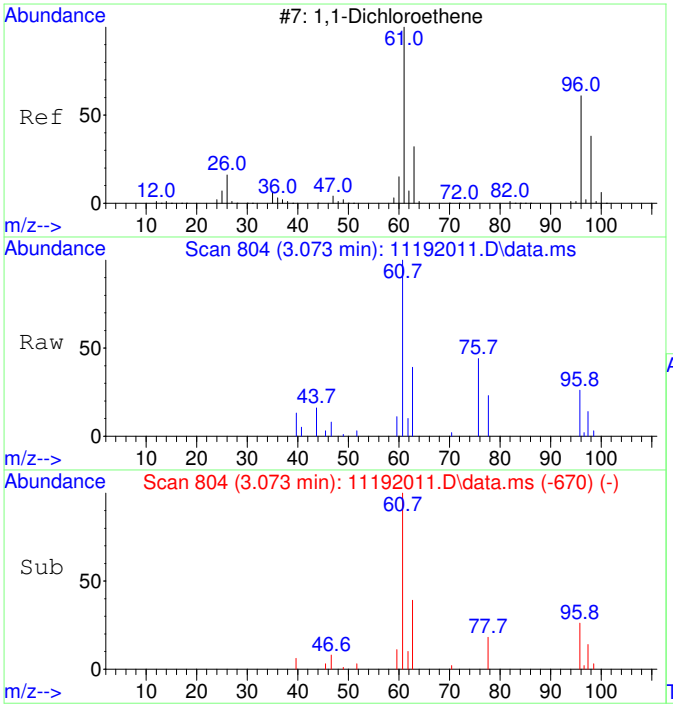


#25
2-Fluorotoluene SCAN
Concen: 4973.24 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion:109 Resp: 254112

Ion	Ratio	Lower	Upper
109	100		
83	14.7	0.0	43.8

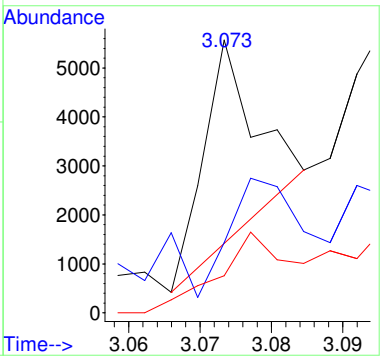


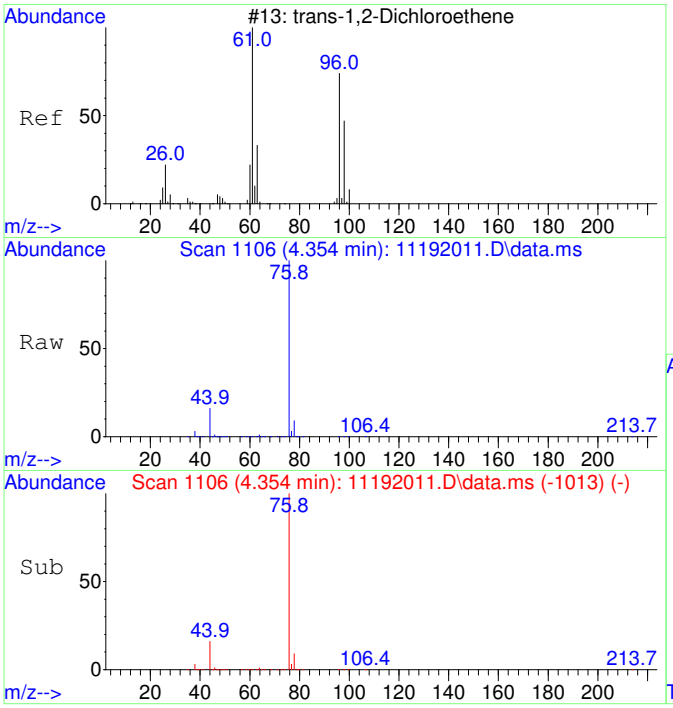


#26
1,1-Dichloroethene SCAN
Concen: 215.27 ug/L
RT: 3.073 min Scan# 804
Delta R.T. -0.004 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 61 Resp: 2336

Ion	Ratio	Lower	Upper
61	100		
96	55.3	33.1	93.1
98	21.8	11.2	71.2

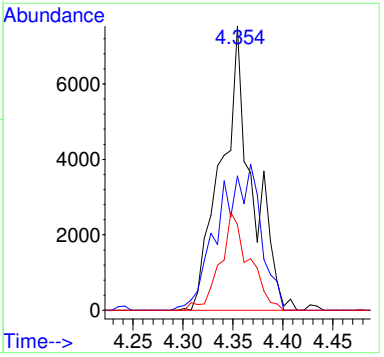


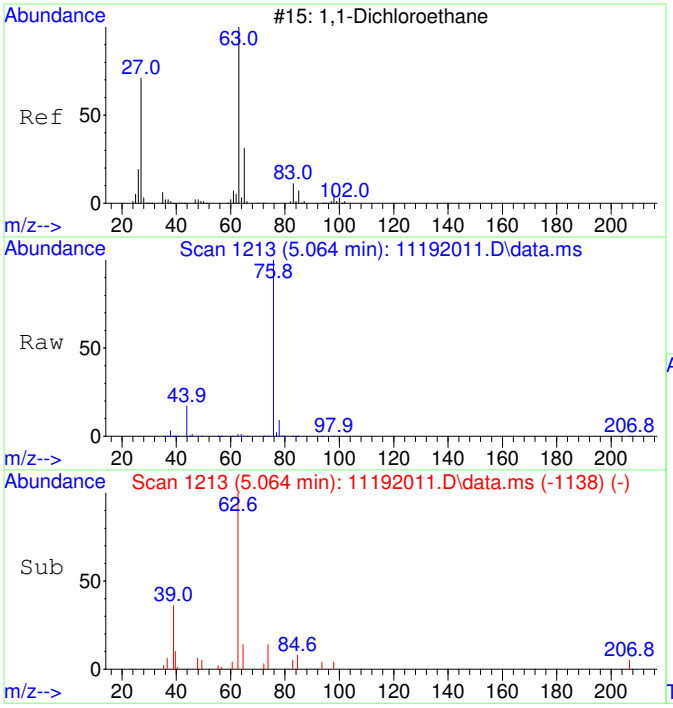


#27
trans-1,2-Dichloroethene SCAN
Concen: 1207.65 ug/L
RT: 4.354 min Scan# 1106
Delta R.T. 0.006 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 61 Resp: 16216

Ion	Ratio	Lower	Upper
61	100		
96	69.7	49.0	109.0
98	32.4	20.5	80.5

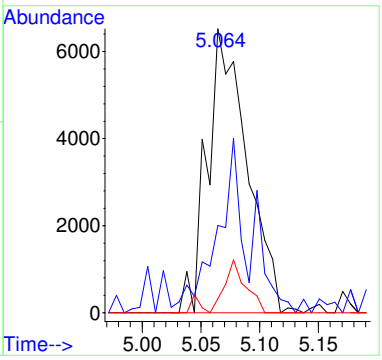


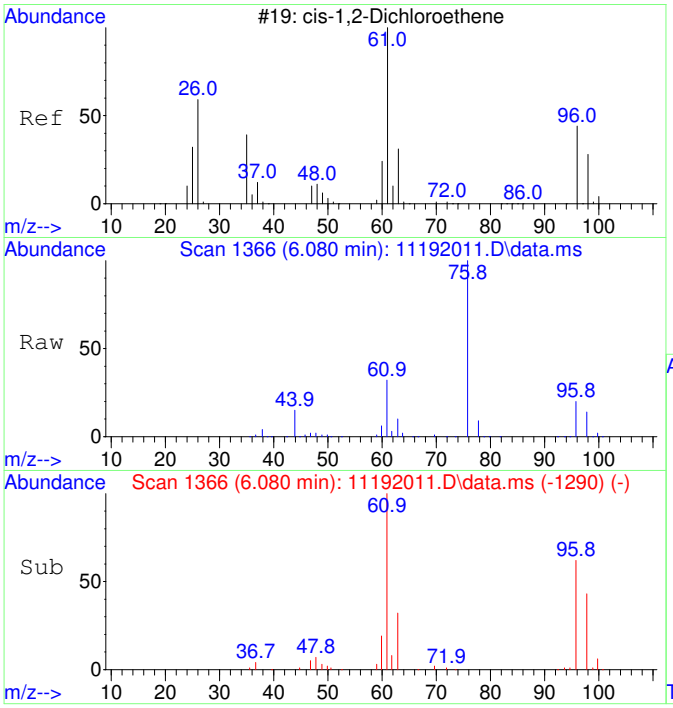


#28
1,1-Dichloroethane SCAN
Concen: 990.03 ug/L
RT: 5.064 min Scan# 1213
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 63 Resp: 15385

Ion	Ratio	Lower	Upper
63	100		
65	24.2	1.3	61.3
83	9.8	0.0	45.9

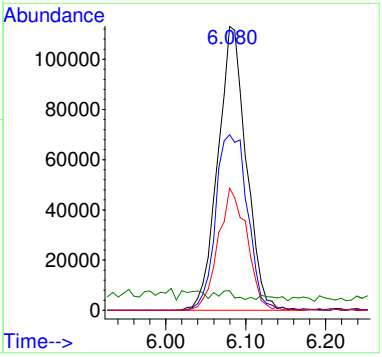


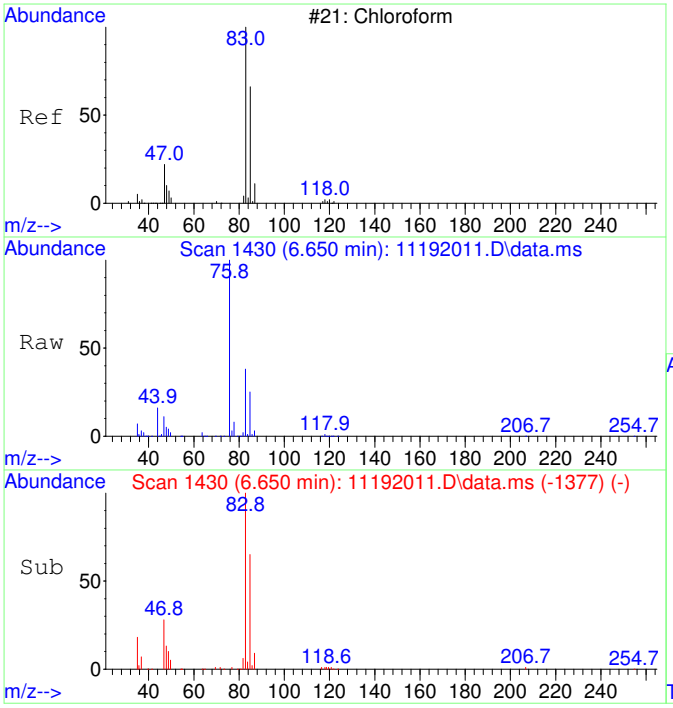


#29
cis-1,2-Dichloroethene SCAN
Concen: 16770.29 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.006 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 61 Resp: 279218

Ion	Ratio	Lower	Upper
61	100		
96	69.4	39.9	99.9
98	43.8	13.5	73.5
64	1.5	4.5	64.5#

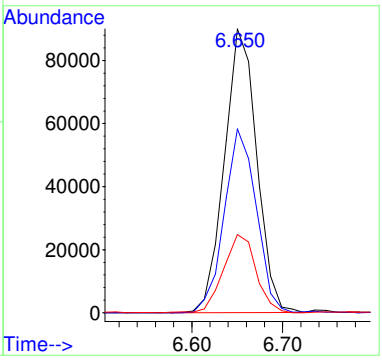


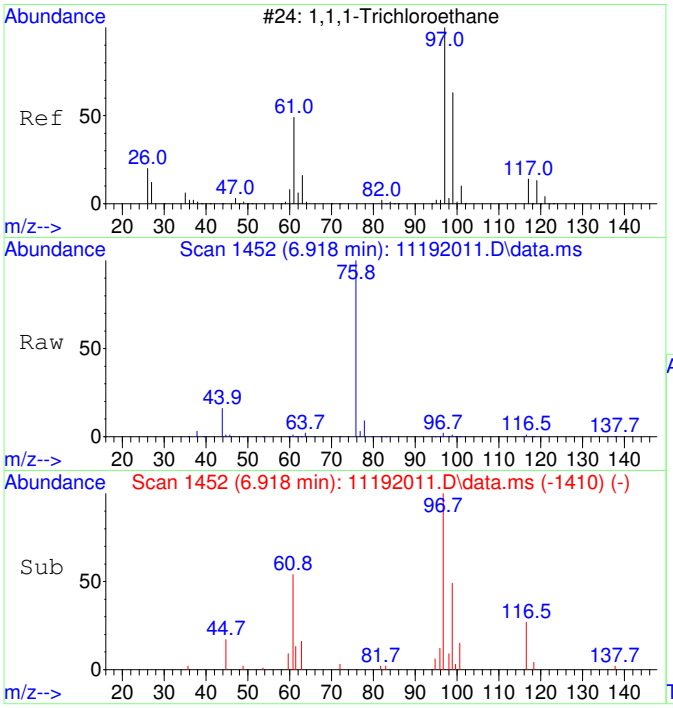


#30
Chloroform SCAN
Concen: 12337.49 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 83 Resp: 222800

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.6	94.6
47	27.8	0.0	53.4

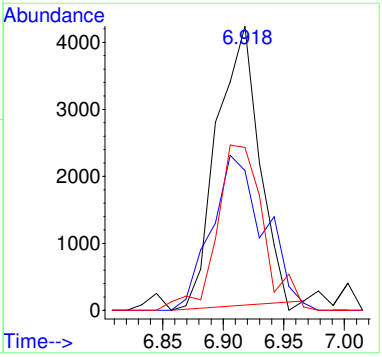


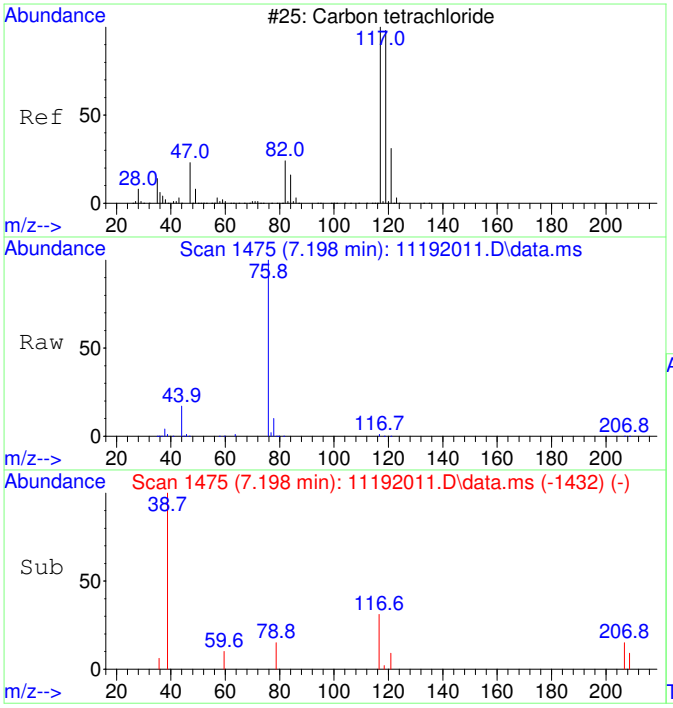


#31
1,1,1-Trichloroethane SCAN
Concen: 613.19 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 97 Resp: 10091

Ion	Ratio	Lower	Upper
97	100		
99	70.3	43.6	103.6
61	65.4	18.0	78.0

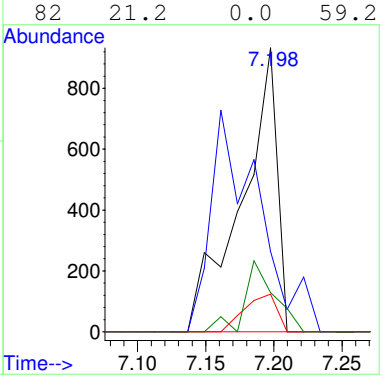


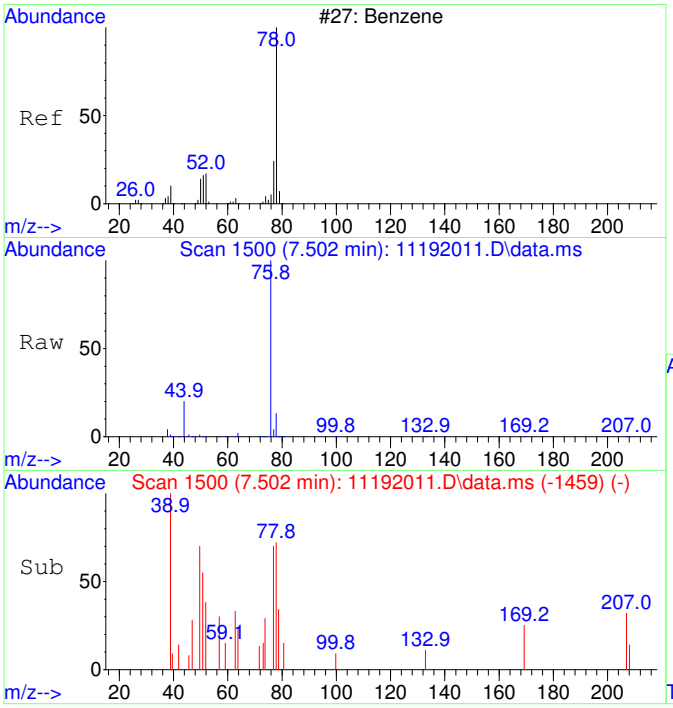


#32
Carbon tetrachloride SCAN
Concen: 98.51 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. 0.024 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion:117 Resp: 1691

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	12.1	0.0	58.8
82	21.2	0.0	59.2

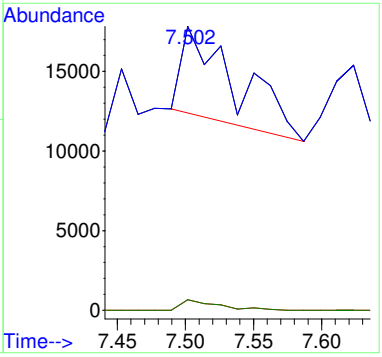


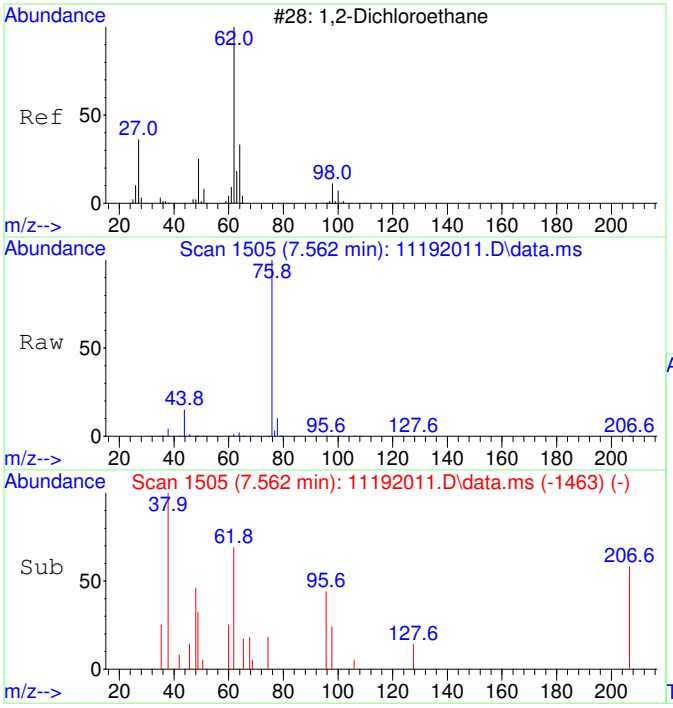


#33
Benzene SCAN
Concen: 331.84 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 78 Resp: 15036

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.3	0.0	47.9
51	8.3	0.0	44.1

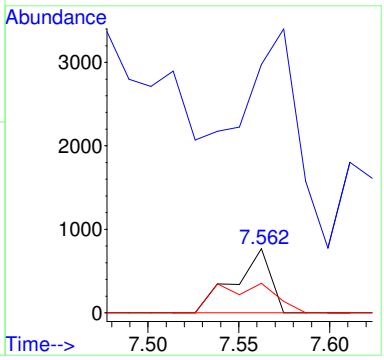


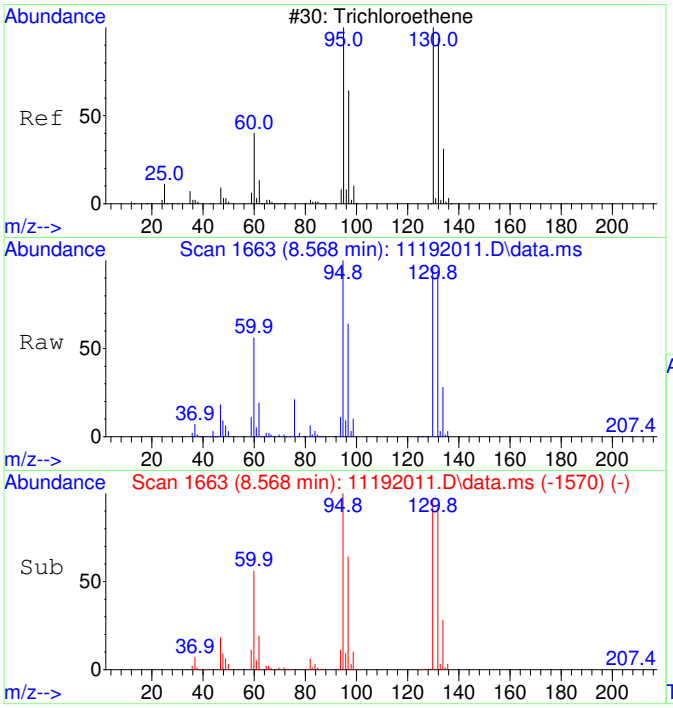


#34
1,2-Dichloroethane SCAN
Concen: 63.53 ug/L
RT: 7.562 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 62 Resp: 1063

Ion	Ratio	Lower	Upper
62	100		
64	245.7	5.2	65.2#
49	72.6	3.9	63.9#

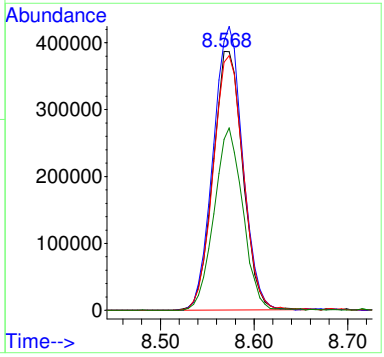


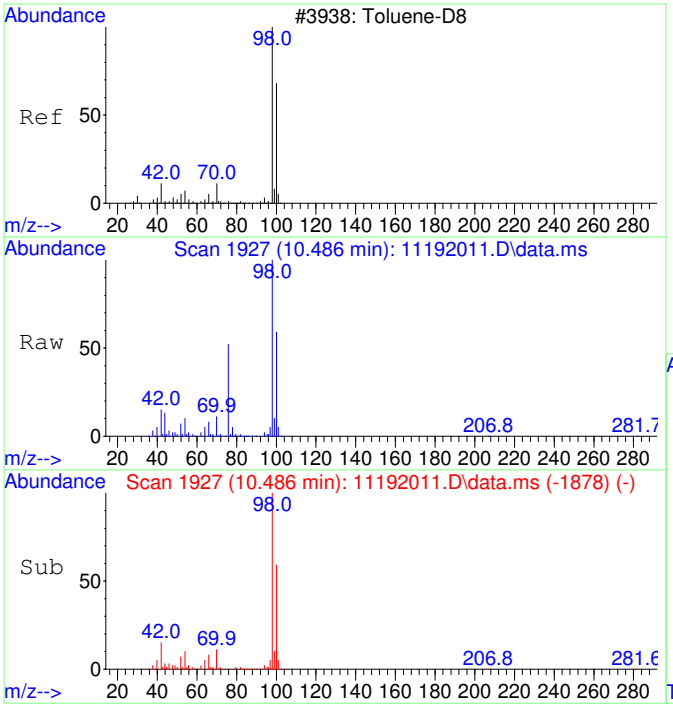


#35
Trichloroethene SCAN
Concen: 68341.63 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion:130 Resp: 850978

Ion	Ratio	Lower	Upper
130	100		
95	108.9	60.5	120.5
132	99.6	59.6	119.6
97	68.0	28.2	88.2

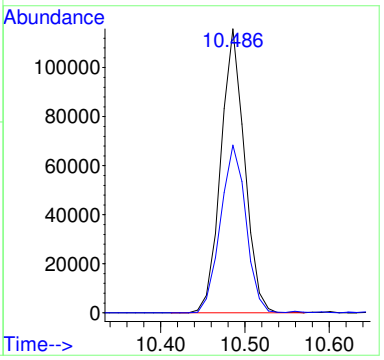


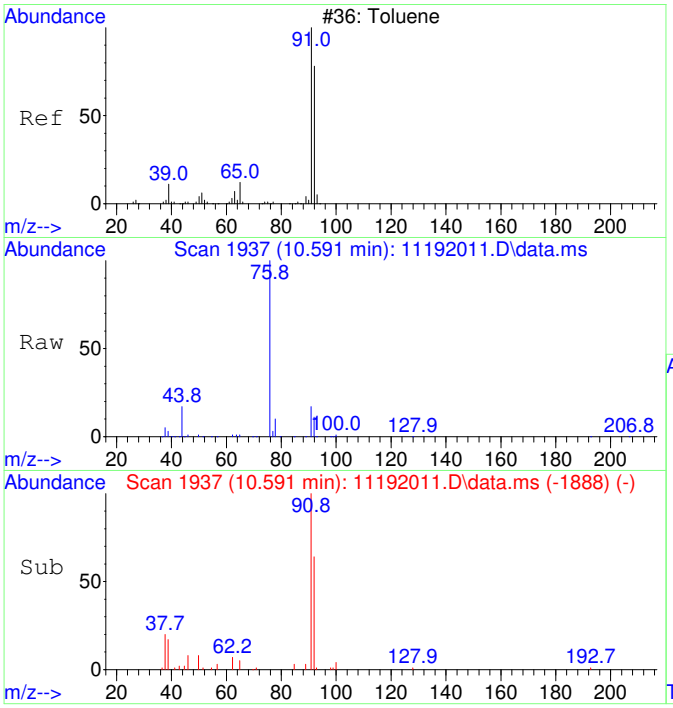


#36
Toluene-d8 SCAN
Concen: 4538.67 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 98 Resp: 226798

Ion	Ratio	Lower	Upper
98	100		
100	62.9	40.0	100.0

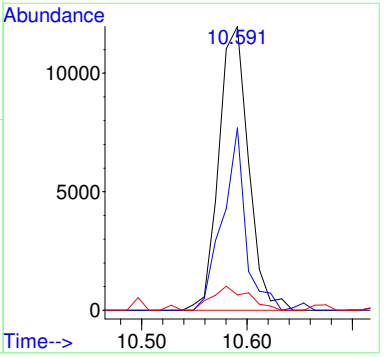


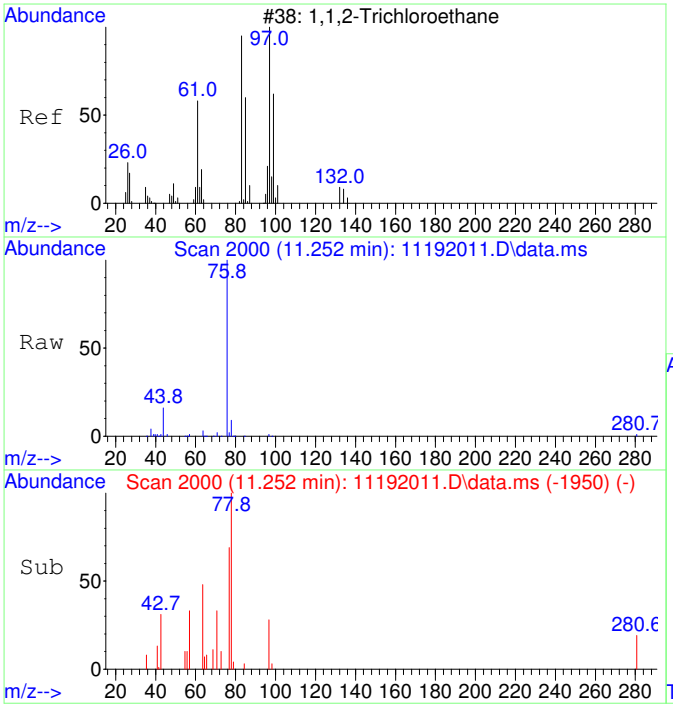


#37
Toluene SCAN
Concen: 366.70 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 91 Resp: 23467

Ion	Ratio	Lower	Upper
91	100		
92	48.9	28.3	88.3
65	10.4	0.0	41.0

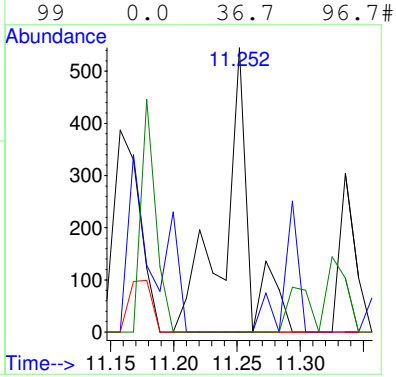


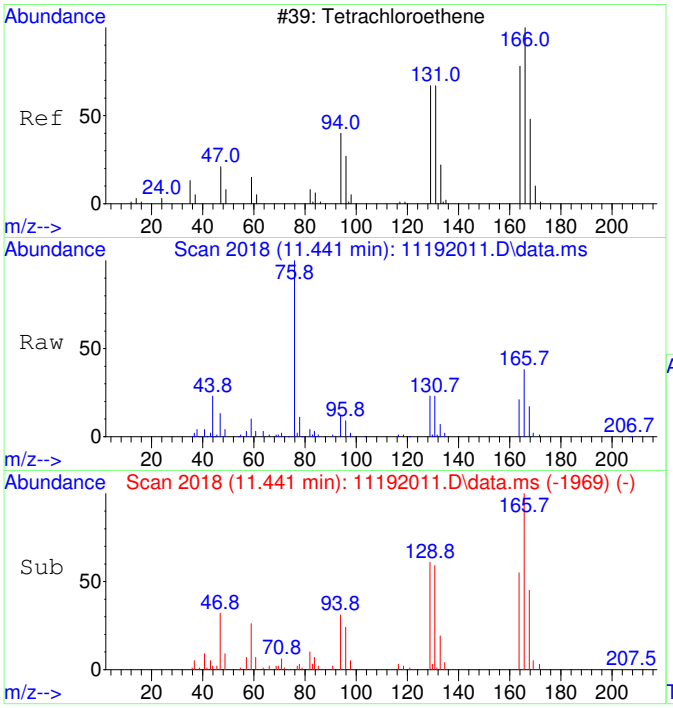


#38
1,1,2-Trichloroethane SCAN
Concen: 54.16 ug/L
RT: 11.252 min Scan# 2000
Delta R.T. 0.021 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 97 Resp: 778

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

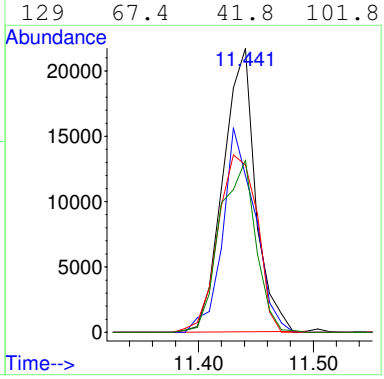


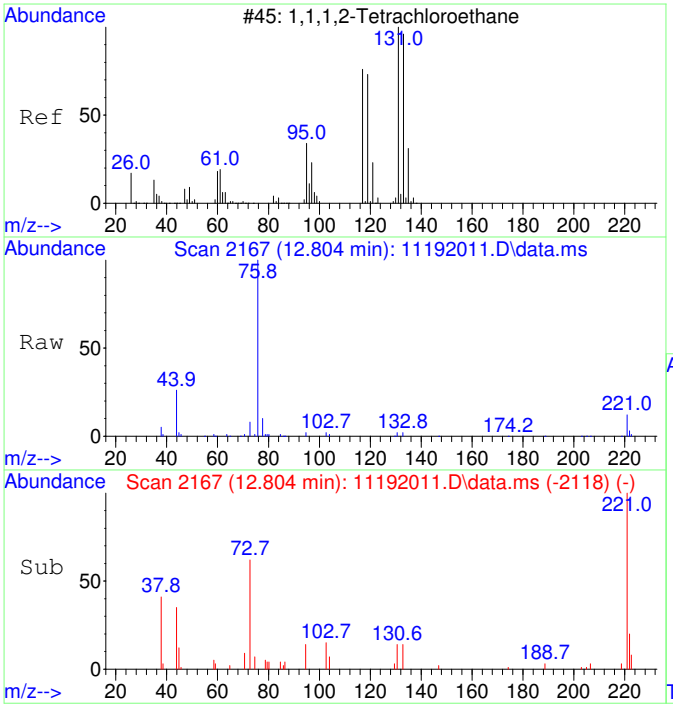


#39
Tetrachloroethene SCAN
Concen: 2764.14 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion:166 Resp: 42497

Ion	Ratio	Lower	Upper
166	100		
164	71.5	50.9	110.9
131	75.7	38.7	98.7
129	67.4	41.8	101.8

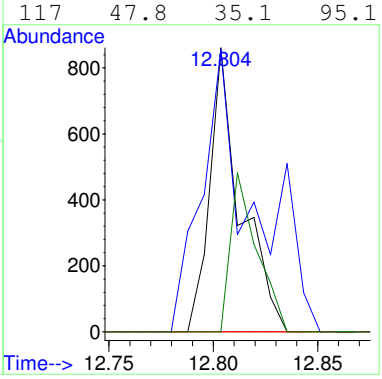


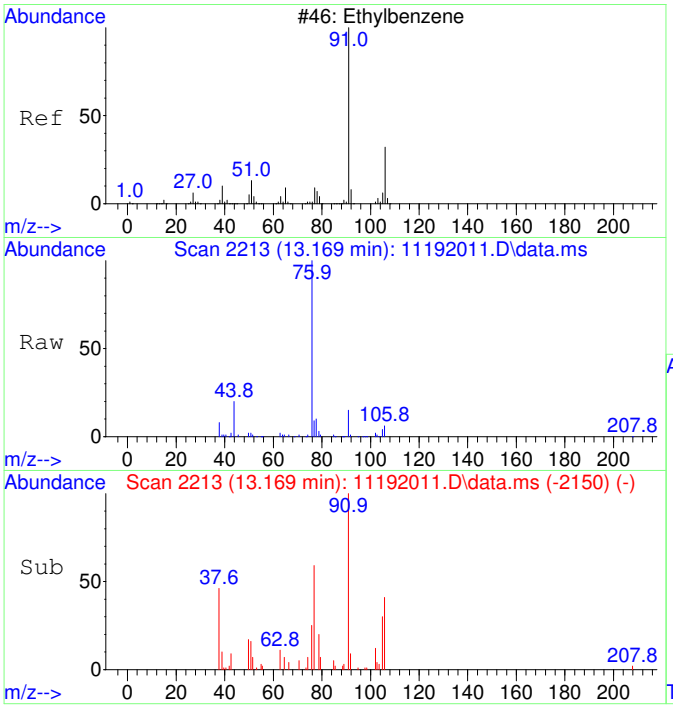


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 55.06 ug/L
RT: 12.804 min Scan# 2167
Delta R.T. -0.111 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion:131 Resp: 891

Ion	Ratio	Lower	Upper
131	100		
133	167.3	66.9	126.9#
119	0.0	40.4	100.4#
117	47.8	35.1	95.1

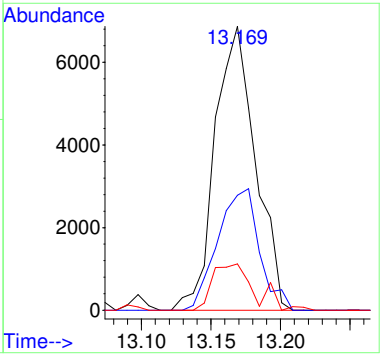


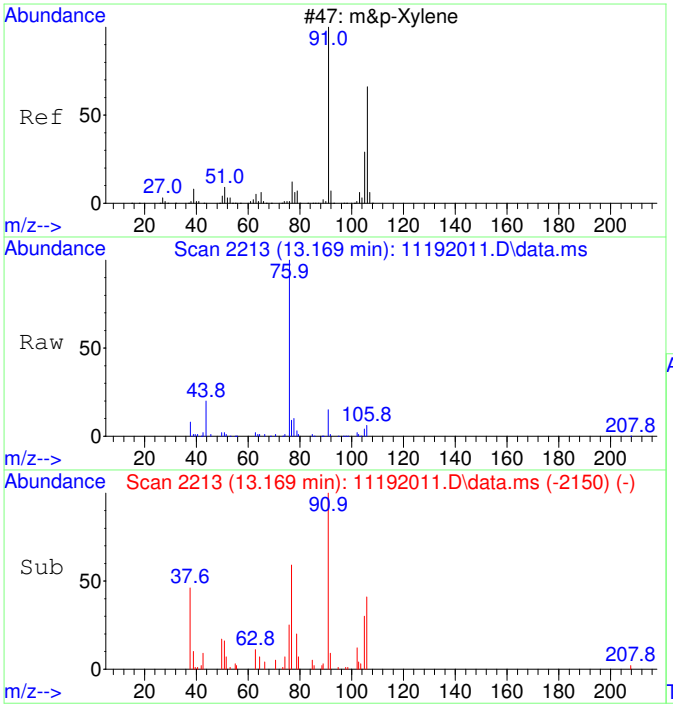


#42
Ethylbenzene SCAN
Concen: 119.77 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 91 Resp: 13964

Ion	Ratio	Lower	Upper
91	100		
106	44.0	23.1	83.1
51	17.1	0.0	40.1

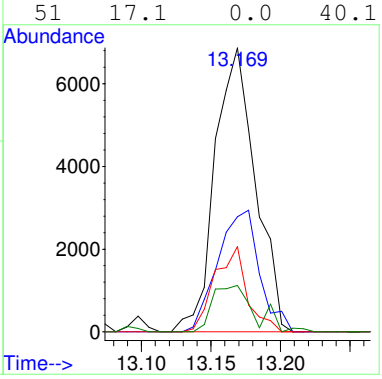


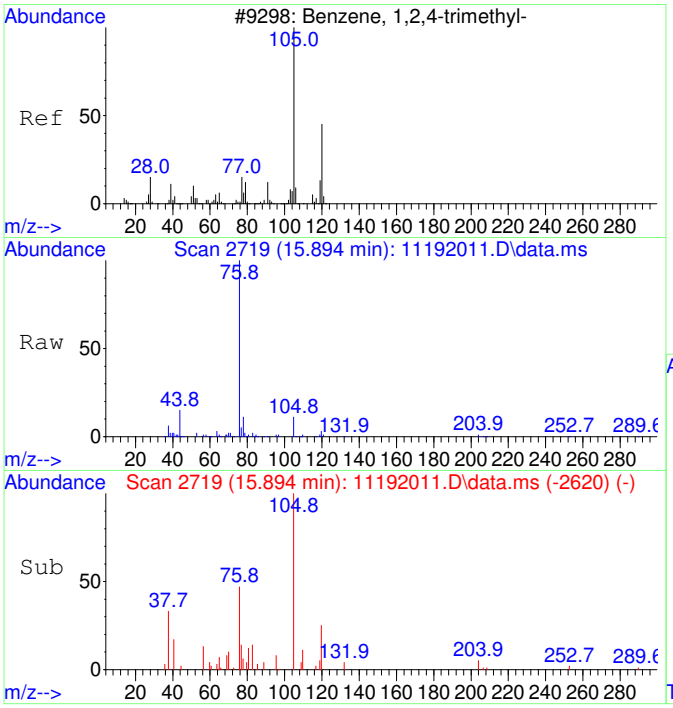


#43
m&p-Xylene SCAN
Concen: 119.77 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion: 91 Resp: 13964

Ion	Ratio	Lower	Upper
91	100		
106	44.0	23.1	83.1
105	24.0	0.0	54.7
51	17.1	0.0	40.1

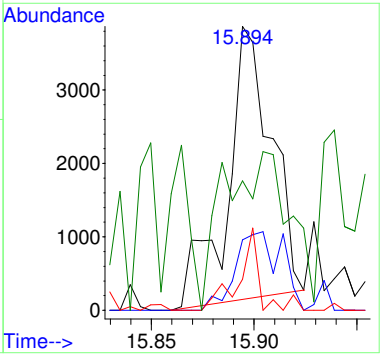




#47
1,2,4-Trimethylbenzene SCAN
Concen: 82.74 ug/L
RT: 15.894 min Scan# 2719
Delta R.T. -0.010 min
Lab File: 11192011.D
Acq: 19 Nov 2020 12:19

Tgt Ion:105 Resp: 5568

Ion	Ratio	Lower	Upper
105	100		
120	30.2	16.9	76.9
119	12.8	0.0	41.9
77	82.5	0.0	42.3#



2011017-22

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192012.D
Acq On : 19 Nov 2020 12:42
InstName : AG5975C
Operator : TD
Sample : 2011017-22
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 23 08:14:32 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

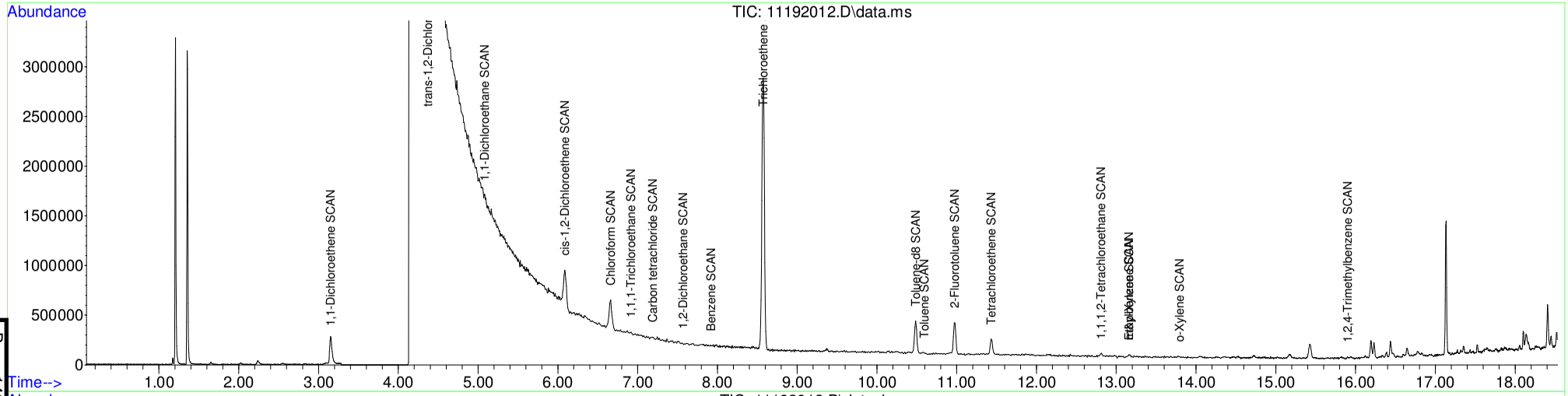
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	585956	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	494337	4309.56 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.19%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	23001	983.03 ug/L	87
3] trans-1,2-Dichloroethene	4.369	61	34540	1277.67 ug/L	99
4] 1,1-Dichloroethane	5.086	63	26694	793.25 ug/L	97
5] cis-1,2-Dichloroethene	6.088	61	566961	15961.05 ug/L	100
6] Chloroform	6.652	83	517089	14222.29 ug/L	100
7] 1,1,1-Trichloroethane	6.919	97	23221	588.10 ug/L	99
8] Carbon tetrachloride	7.187	117	4607	123.97 ug/L	98
9] Benzene	7.503	78	17468	175.46 ug/L	72
10] 1,2-Dichloroethane	7.552	62	2158	60.72 ug/L #	1
11] Trichloroethene	8.575	130	2127341	70969.64 ug/L OC	94
13] Toluene	10.582	91	29253	200.03 ug/L	98
15] Tetrachloroethene	11.432	166	115912	2738.82 ug/L	100
18] Ethylbenzene	12.972	91	5500	30.90 ug/L	95
19] m&p-Xylene	13.162	91	16136	115.98 ug/L	96
20] o-Xylene	13.782	91	11378	76.55 ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	4903	29.84 ug/L	86
25) 2-Fluorotoluene SCAN	10.969	109	280550	4911.60 ug/L	99
26) 1,1-Dichloroethene SCAN	3.144	61	1011	83.34 ug/L	97
27) trans-1,2-Dichloroethe...	4.368	61	20401	1359.09 ug/L #	36
28) 1,1-Dichloroethane SCAN	5.078	63	14769	850.16 ug/L	83
29) cis-1,2-Dichloroethene...	6.086	61	300251	16131.68 ug/L #	85
30) Chloroform SCAN	6.662	83	280228	13881.02 ug/L	96
31) 1,1,1-Trichloroethane ...	6.918	97	13003	706.81 ug/L	81
32) Carbon tetrachloride SCAN	7.185	117	1467	76.45 ug/L #	47
33) Benzene SCAN	7.920	78	3983	78.63 ug/L	93
34) 1,2-Dichloroethane SCAN	7.563	62	1434	76.67 ug/L #	40
35) Trichloroethene SCAN	8.573	130	998567	71736.84 ug/L	87
36) Toluene-d8 SCAN	10.486	98	248325	4445.37 ug/L	96
37) Toluene SCAN	10.591	91	15052	210.40 ug/L	92
39) Tetrachloroethene SCAN	11.430	166	52724	3067.66 ug/L	92
41) 1,1,1,2-Tetrachloroeth...	12.804	131	701	38.75 ug/L #	36
42) Ethylbenzene SCAN	13.161	91	8947	68.65 ug/L #	35
43) m&p-Xylene SCAN	13.161	91	8947	68.65 ug/L #	40
44) o-Xylene SCAN	13.789	91	7711	110.53 ug/L	78
47) 1,2,4-Trimethylbenzene...	15.899	105	1604	21.32 ug/L #	1

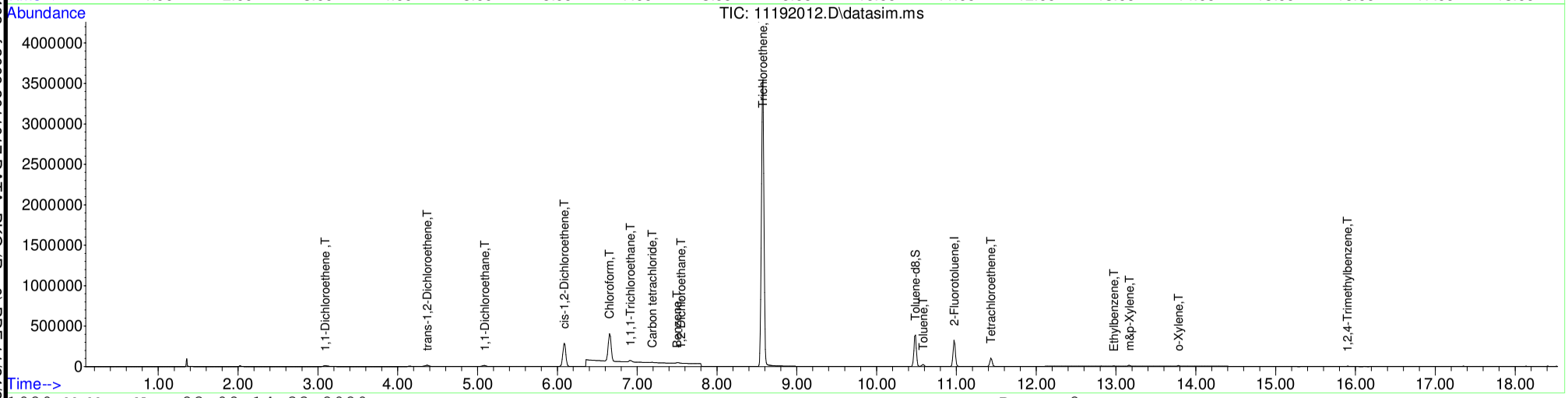
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192012.D
Acq On : 19 Nov 2020 12:42
InstName : AG5975C
Operator : TD
Sample : 2011017-22
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 23 08:14:32 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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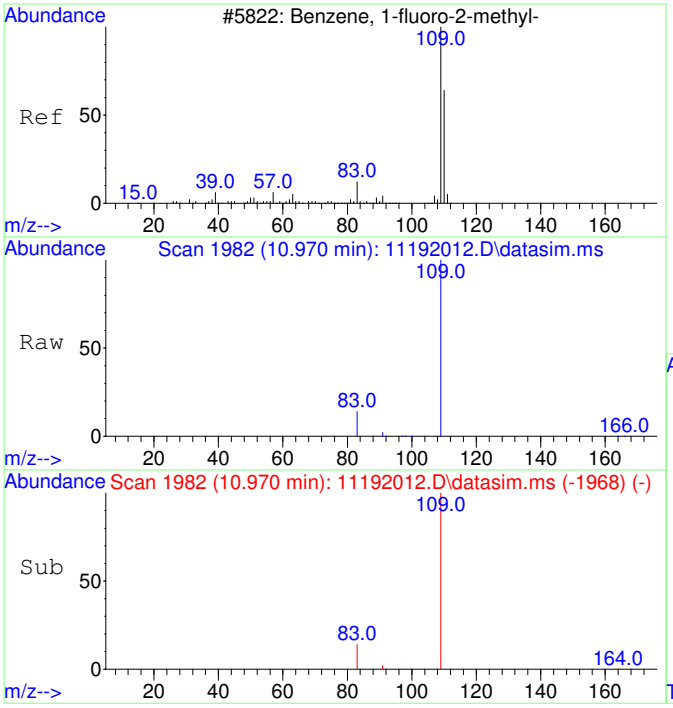
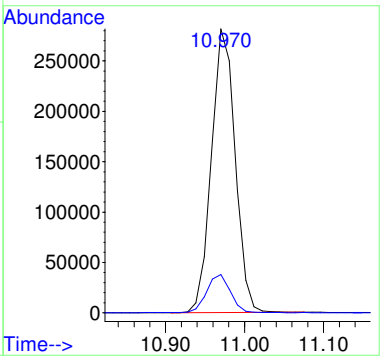
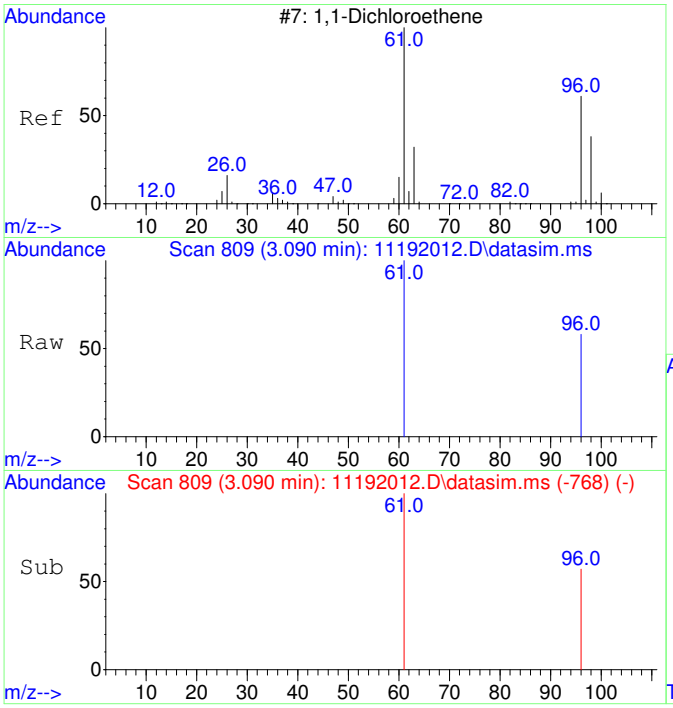


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:109 Resp: 585956

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

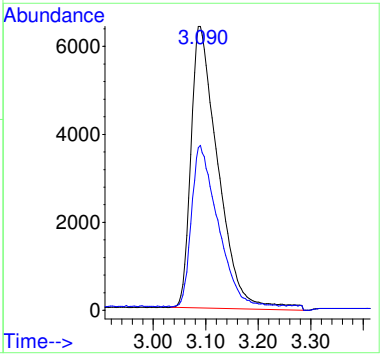




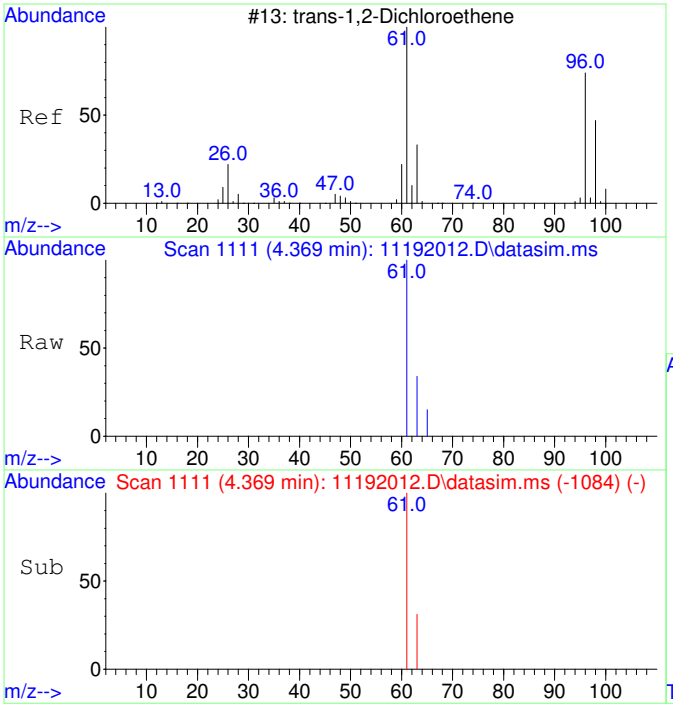
#2
1,1-Dichloroethene
Concen: 983.03 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 61 Resp: 23001

Ion	Ratio	Lower	Upper
61	100		
96	57.1	37.2	97.2



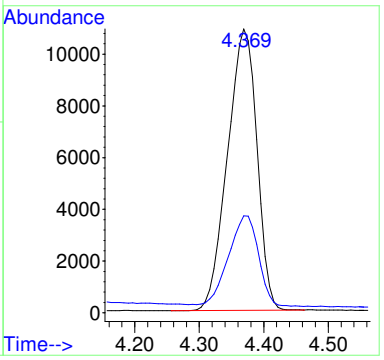
Before MI:
IMPROPER
BASELINE

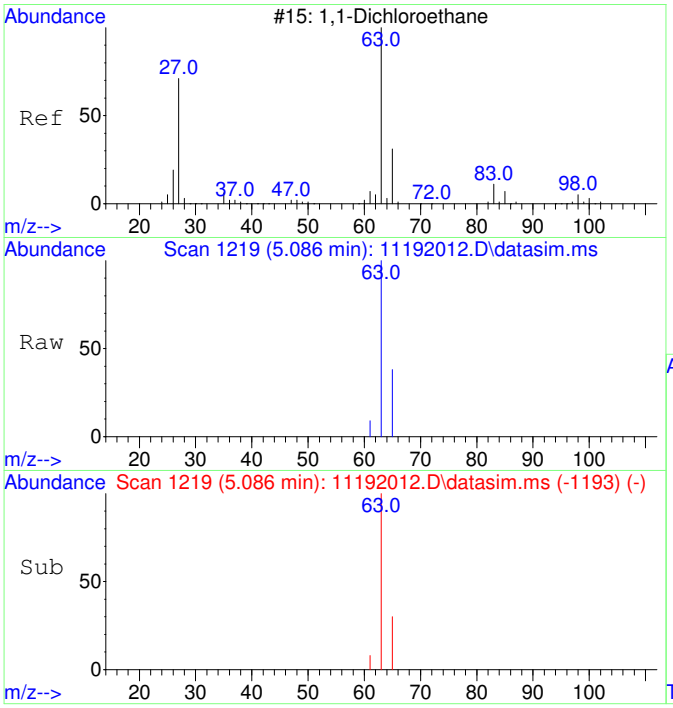


#3
trans-1,2-Dichloroethene
Concen: 1277.67 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. 0.026 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 61 Resp: 34540

Ion	Ratio	Lower	Upper
61	100		
63	32.9	2.4	62.4

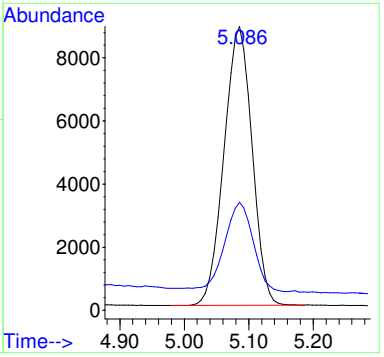


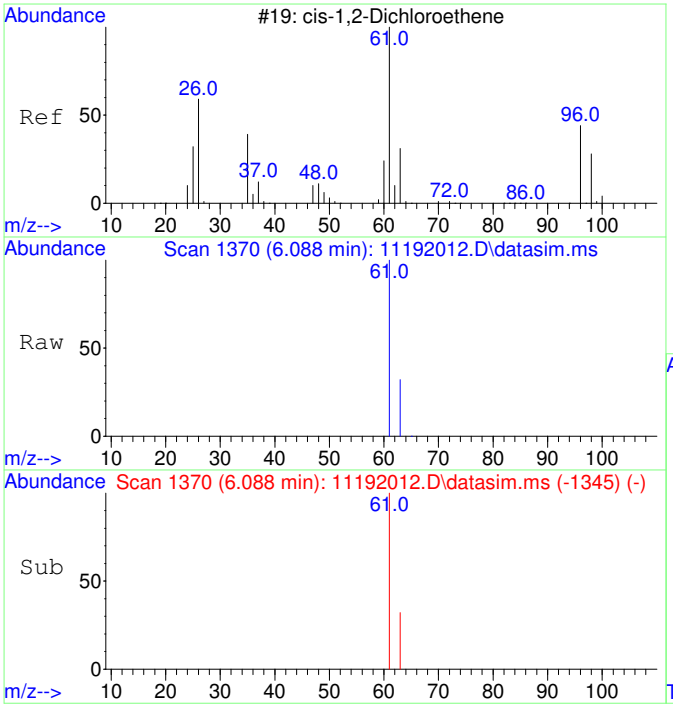


#4
1,1-Dichloroethane
Concen: 793.25 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 63 Resp: 26694

Ion	Ratio	Lower	Upper
63	100		
65	33.5	1.8	61.8

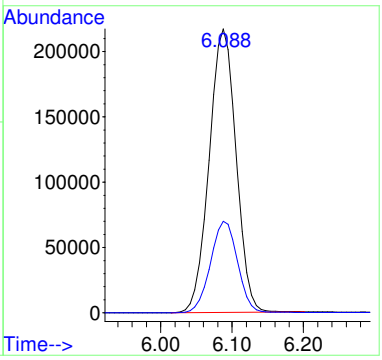


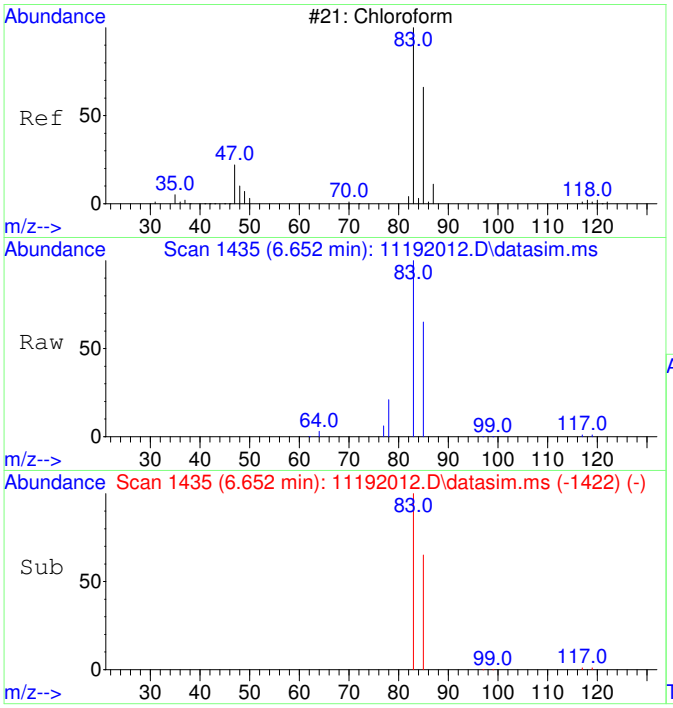


#5
cis-1,2-Dichloroethene
Concen: 15961.05 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 61 Resp: 566961

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.5	62.5

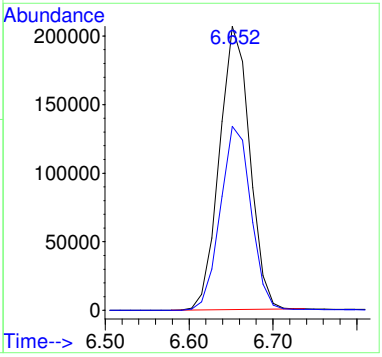


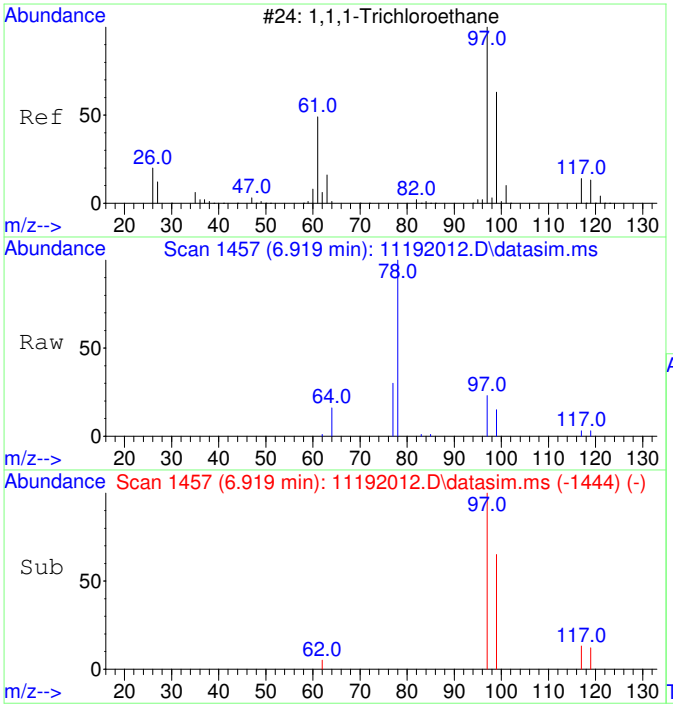


#6
Chloroform
Concen: 14222.29 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 83 Resp: 517089

Ion	Ratio	Lower	Upper
83	100		
85	65.4	35.1	95.1

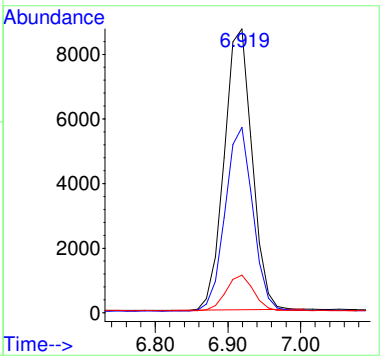


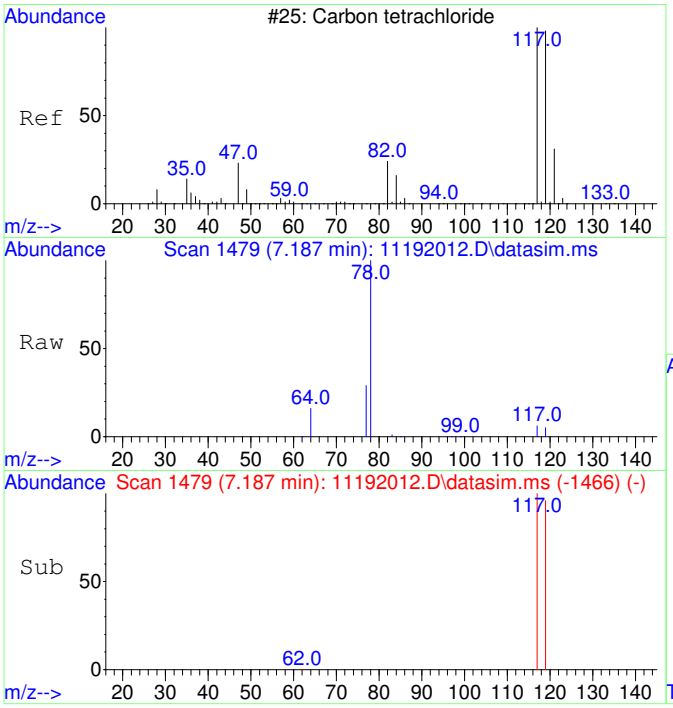


#7
1,1,1-Trichloroethane
Concen: 588.10 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 97 Resp: 23221

Ion	Ratio	Lower	Upper
97	100		
99	64.8	34.6	94.6
117	12.4	0.0	43.2

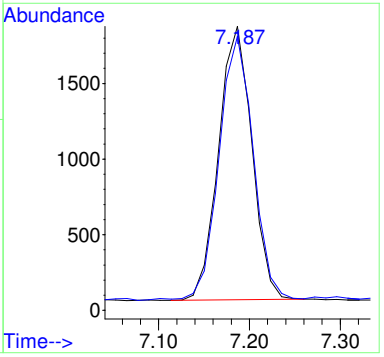


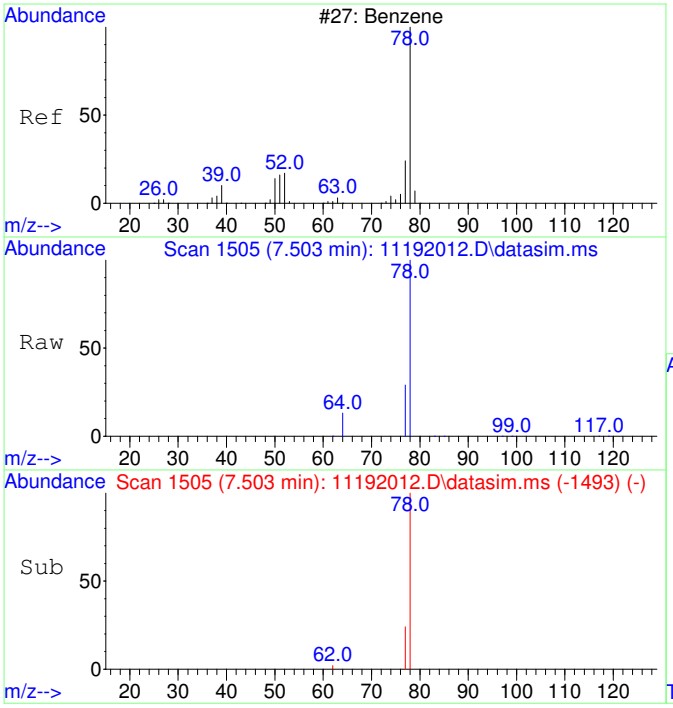


#8
Carbon tetrachloride
Concen: 123.97 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:117 Resp: 4607

Ion	Ratio	Lower	Upper
117	100		
119	98.2	66.4	126.4

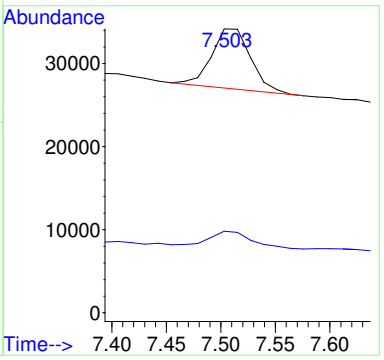


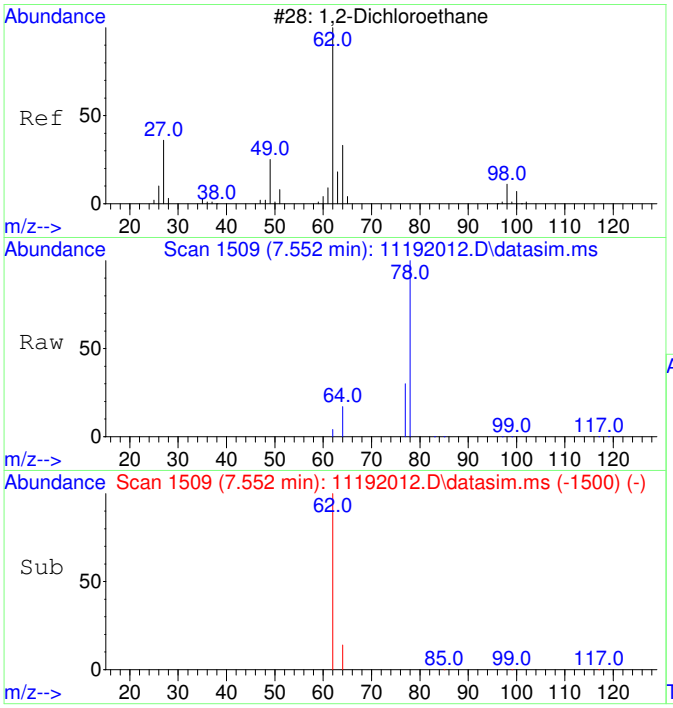


#9
Benzene
Concen: 175.46 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 78 Resp: 17468

Ion	Ratio	Lower	Upper
78	100		
77	37.0	0.0	53.2

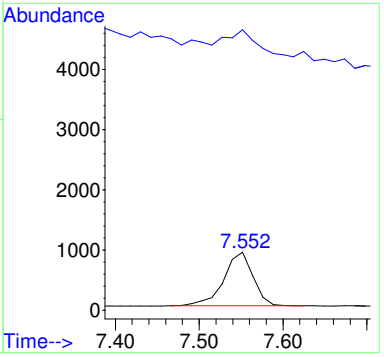


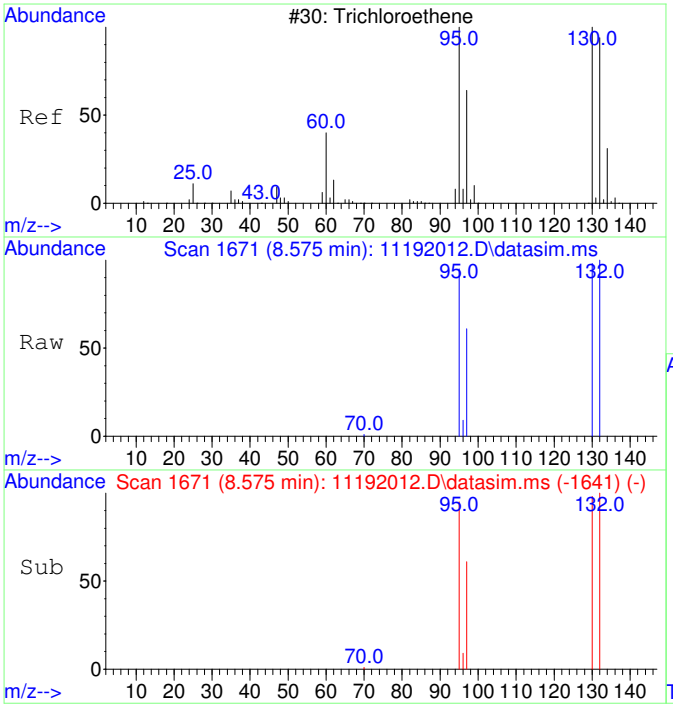


#10
1,2-Dichloroethane
Concen: 60.72 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 62 Resp: 2158

Ion	Ratio	Lower	Upper
62	100		
64	107.7	2.3	62.3#

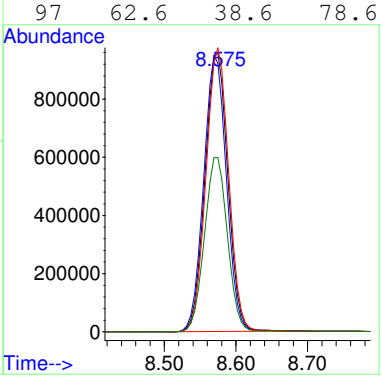


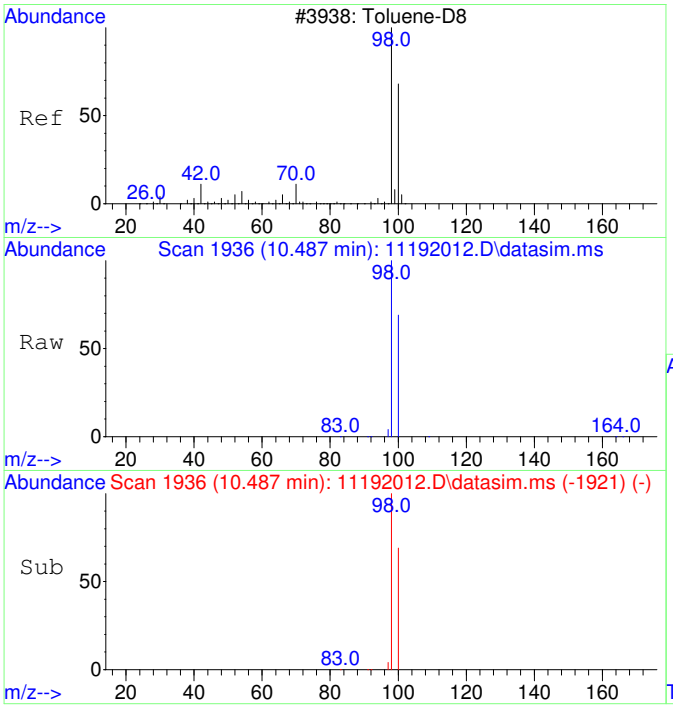


#11
Trichloroethene
Concen: 70969.64 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:130 Resp: 2127341

Ion	Ratio	Lower	Upper
130	100		
95	98.2	60.7	120.7
132	100.6	76.0	116.0
97	62.6	38.6	78.6

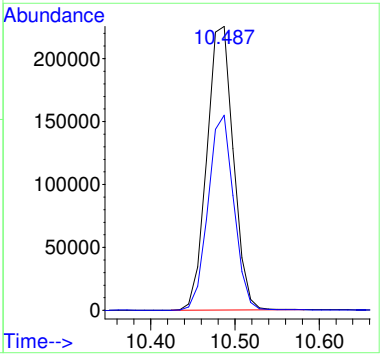


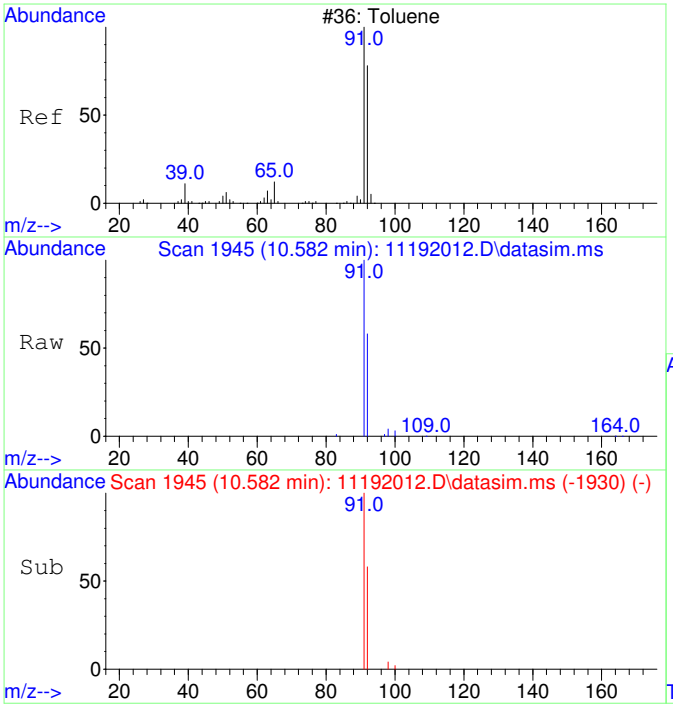


#12
Toluene-d8
Concen: 4309.56 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 98 Resp: 494337

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

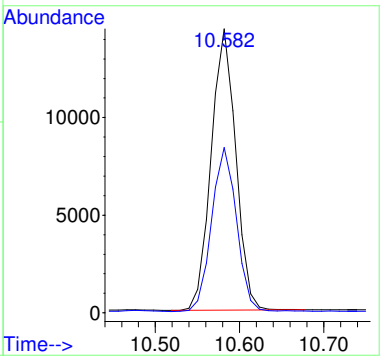


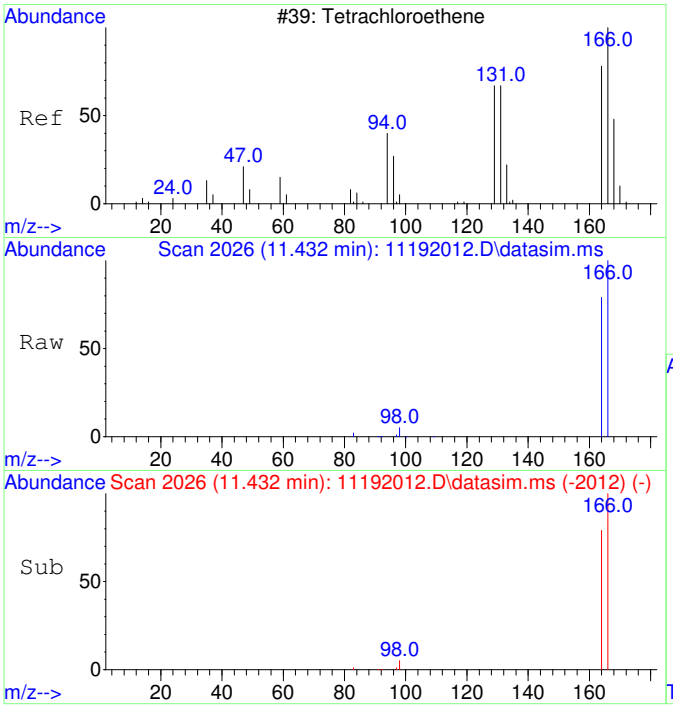


#13
Toluene
Concen: 200.03 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 29253

Ion	Ratio	Lower	Upper
91	100		
92	58.5	29.9	89.9

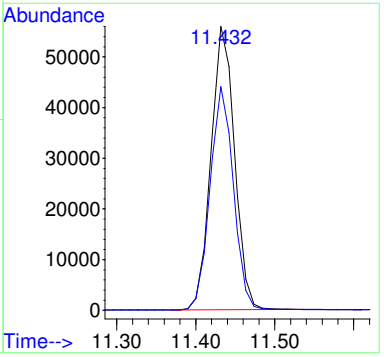


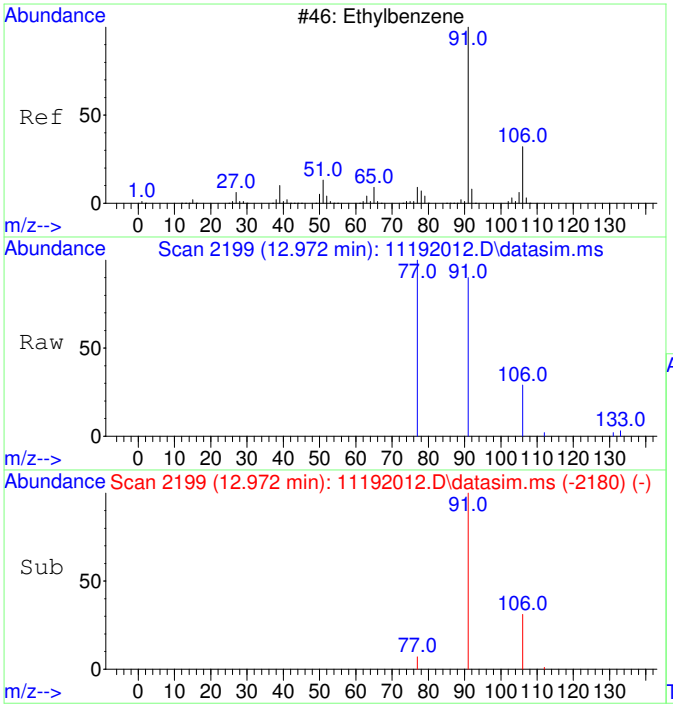


#15
Tetrachloroethene
Concen: 2738.82 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:166 Resp: 115912

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

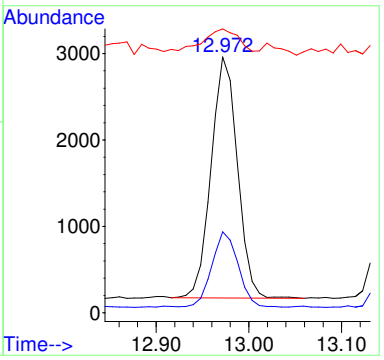


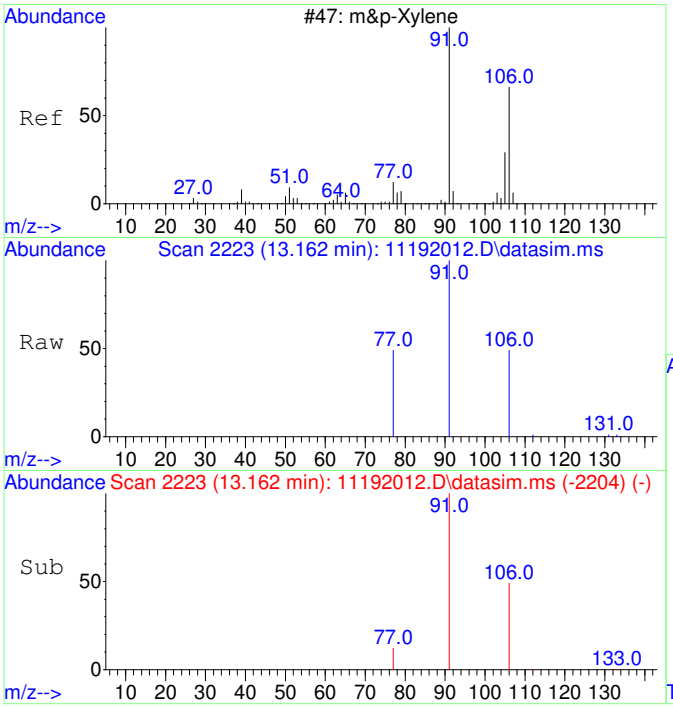


#18
Ethylbenzene
Concen: 30.90 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 5500

Ion	Ratio	Lower	Upper
91	100		
106	31.7	3.0	63.0
77	13.9	0.0	38.2

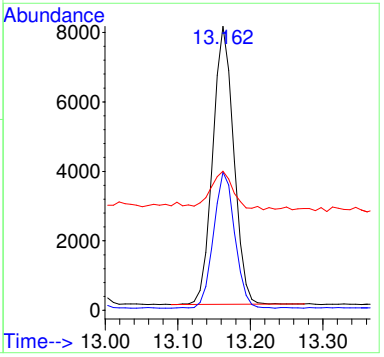


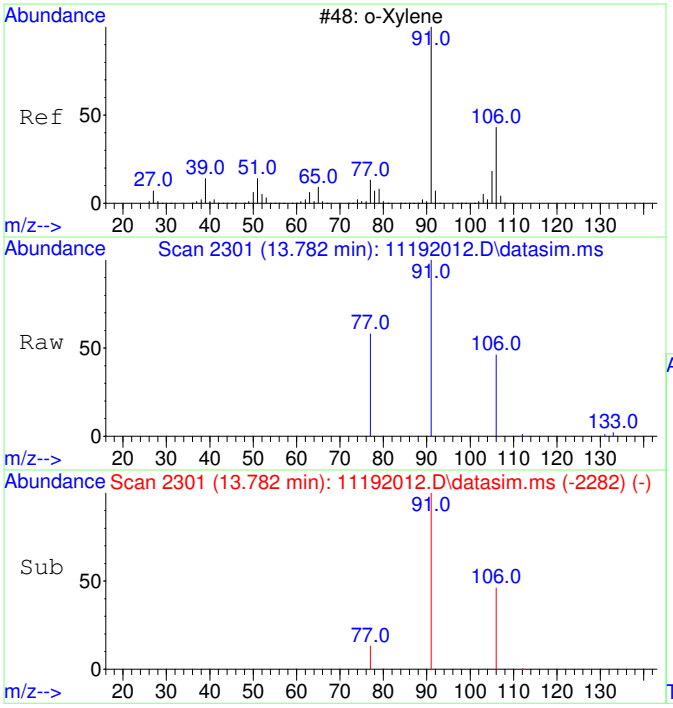


#19
m&p-Xylene
Concen: 115.98 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 16136

Ion	Ratio	Lower	Upper
91	100		
106	49.5	22.2	82.2
77	13.2	0.0	42.4

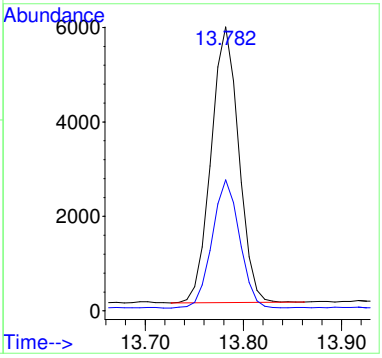


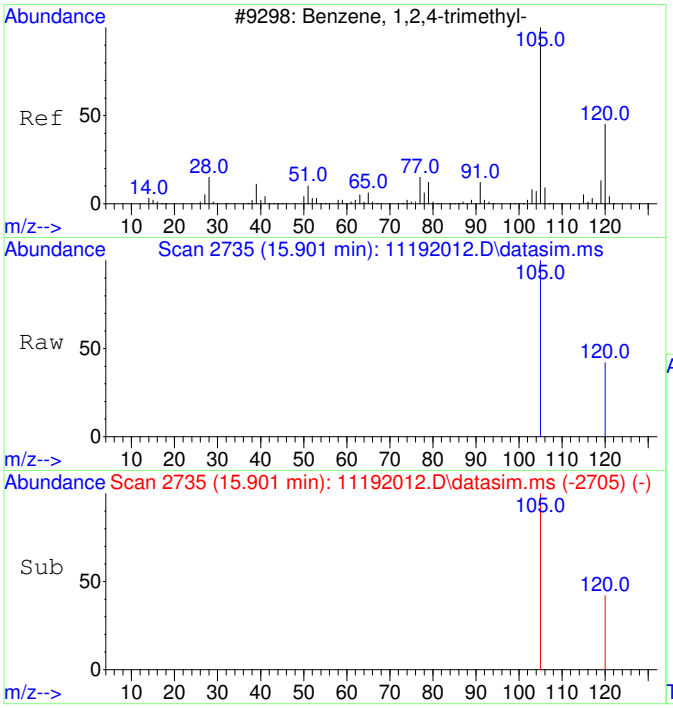


#20
o-Xylene
Concen: 76.55 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 11378

Ion	Ratio	Lower	Upper
91	100		
106	46.3	19.2	79.2

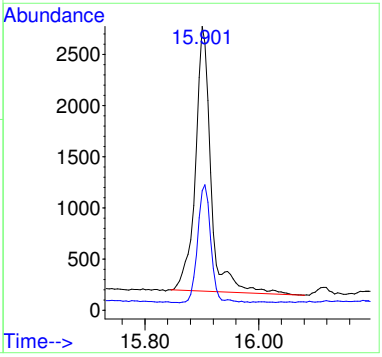


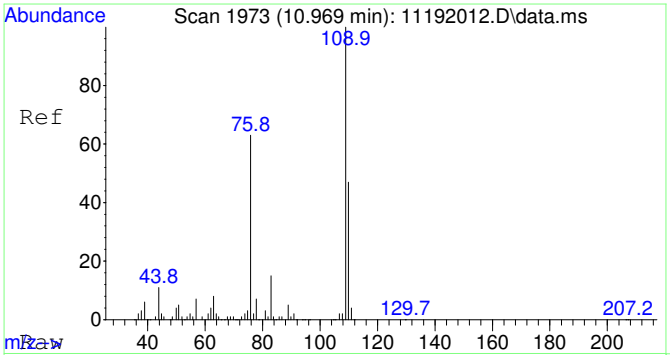


#23
1,2,4-Trimethylbenzene
Concen: 29.84 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:105 Resp: 4903

Ion	Ratio	Lower	Upper
105	100		
120	37.5	17.2	77.2

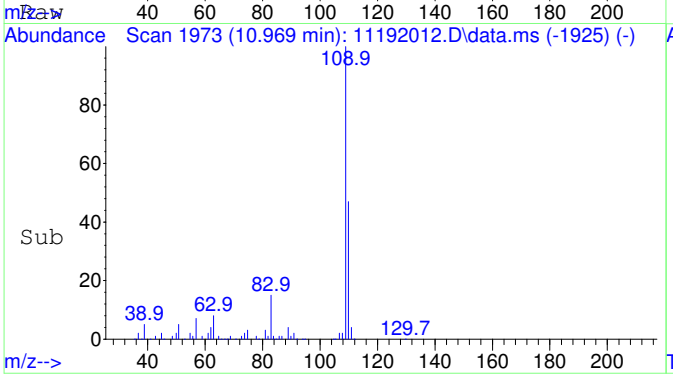


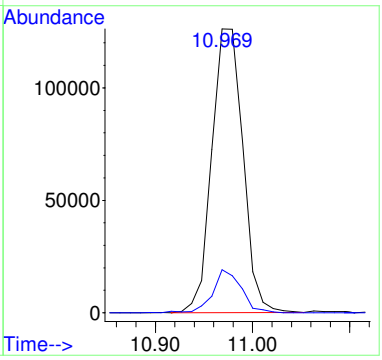


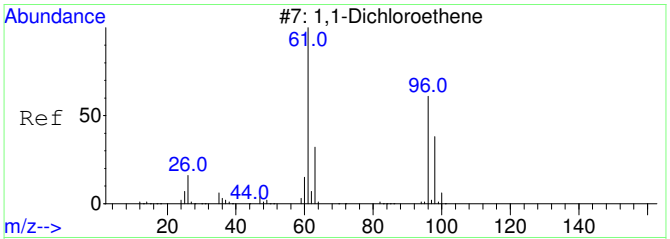
#25
2-Fluorotoluene SCAN
Concen: 4911.60 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:109 Resp: 280550

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	43.8



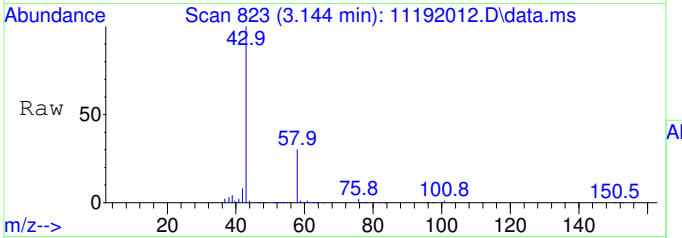


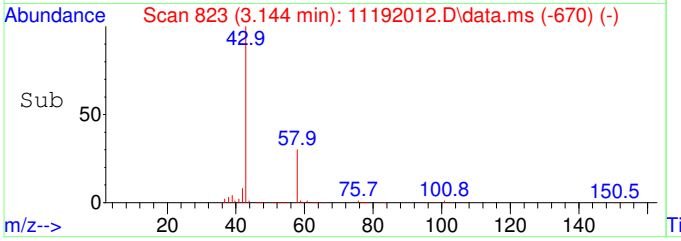


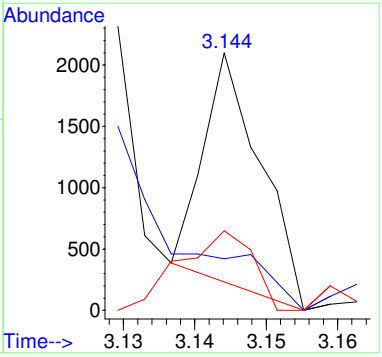
#26
1,1-Dichloroethene SCAN
Concen: 83.34 ug/L
RT: 3.144 min Scan# 823
Delta R.T. 0.067 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

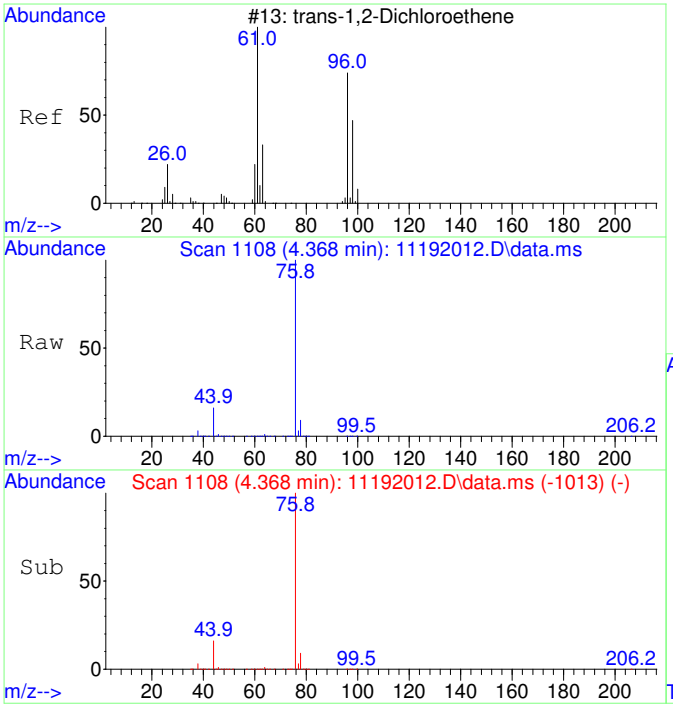
Tgt Ion: 61 Resp: 1011

Ion	Ratio	Lower	Upper
61	100		
96	60.9	33.1	93.1
98	38.5	11.2	71.2





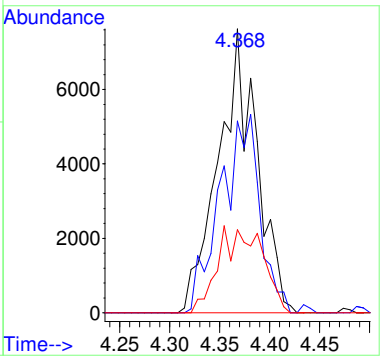


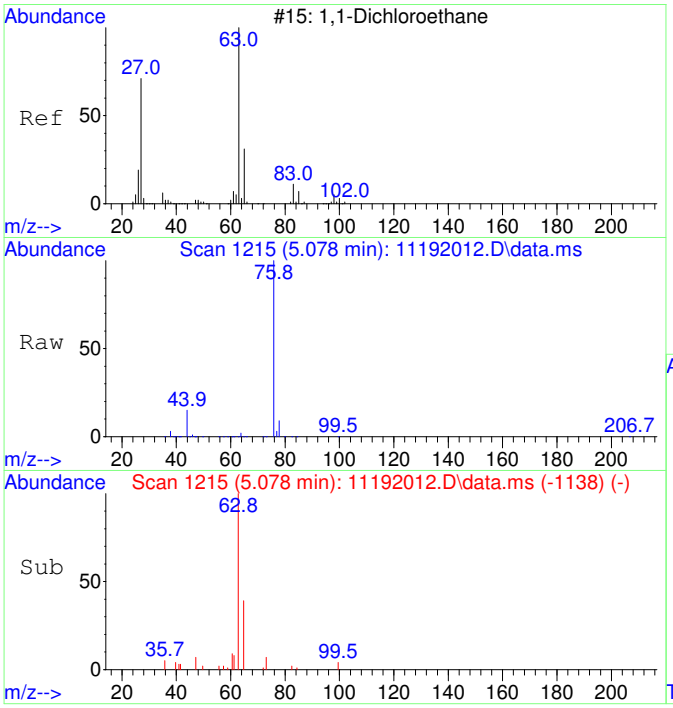


#27
trans-1,2-Dichloroethene SCAN
Concen: 1359.09 ug/L
RT: 4.368 min Scan# 1108
Delta R.T. 0.020 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 61 Resp: 20401

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	34.7	20.5	80.5

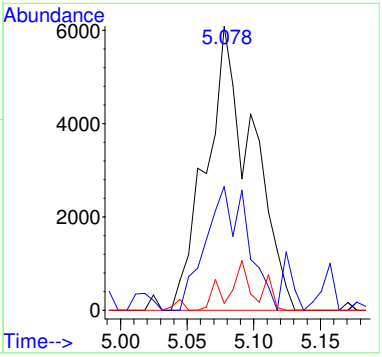


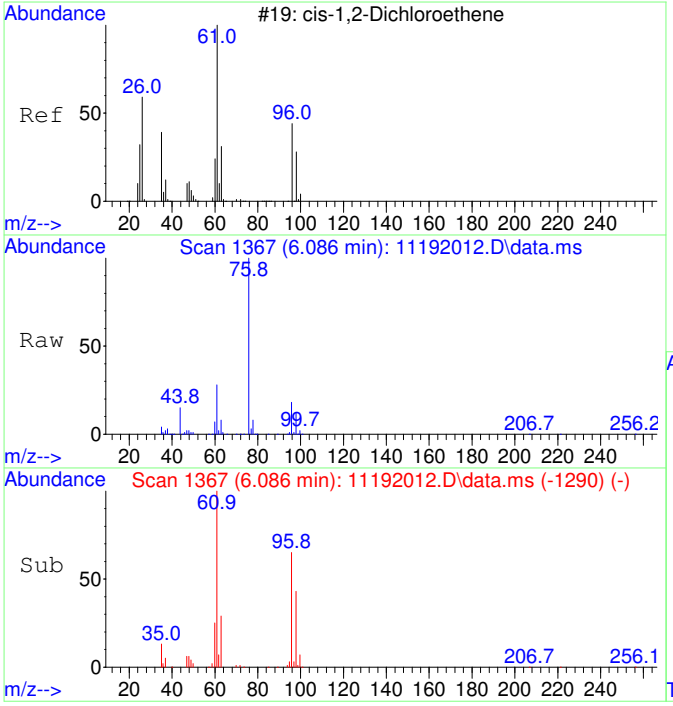


#28
1,1-Dichloroethane SCAN
Concen: 850.16 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 63 Resp: 14769

Ion	Ratio	Lower	Upper
63	100		
65	39.3	1.3	61.3
83	6.2	0.0	45.9

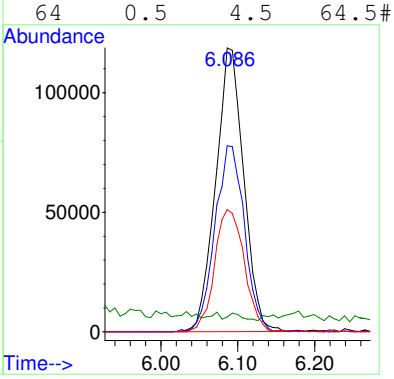


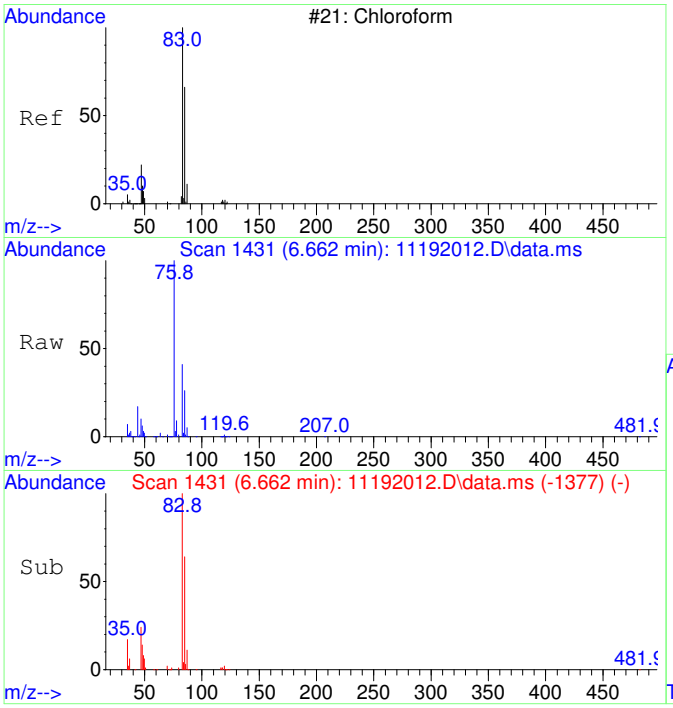


#29
cis-1,2-Dichloroethene SCAN
Concen: 16131.68 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 61 Resp: 300251

Ion	Ratio	Lower	Upper
61	100		
96	69.0	39.9	99.9
98	45.9	13.5	73.5
64	0.5	4.5	64.5#

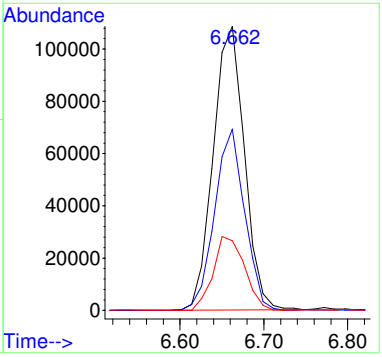


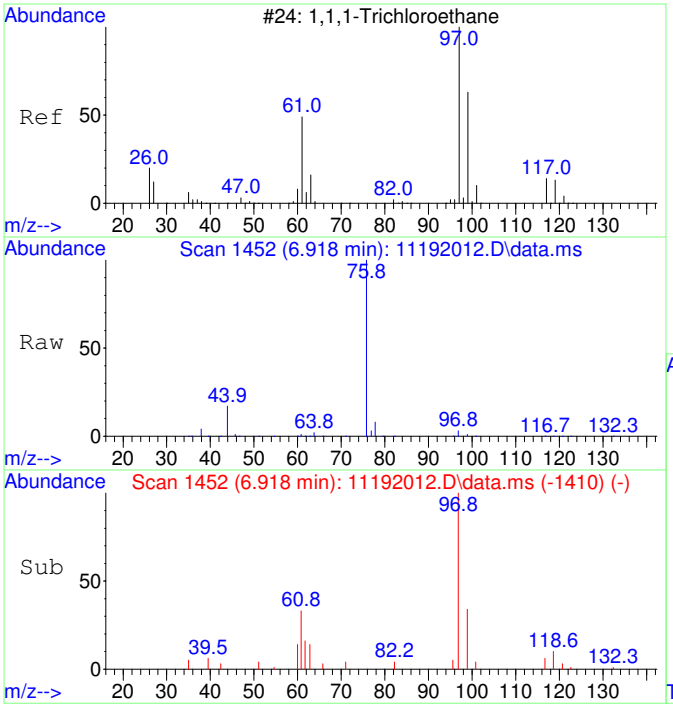


#30
Chloroform SCAN
Concen: 13881.02 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 83 Resp: 280228

Ion	Ratio	Lower	Upper
83	100		
85	61.5	34.6	94.6
47	26.2	0.0	53.4

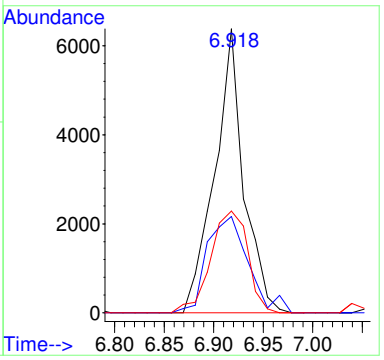


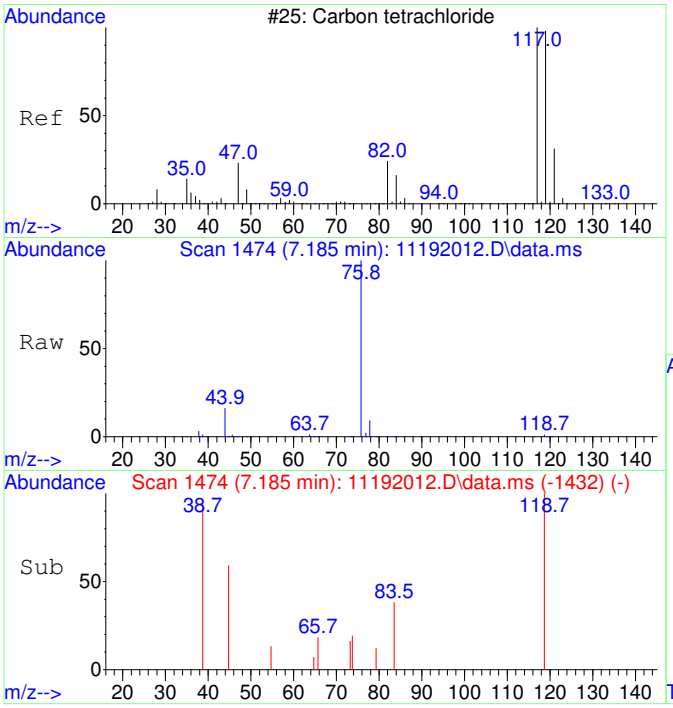


#31
1,1,1-Trichloroethane SCAN
Concen: 706.81 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 97 Resp: 13003

Ion	Ratio	Lower	Upper
97	100		
99	48.3	43.6	103.6
61	45.8	18.0	78.0

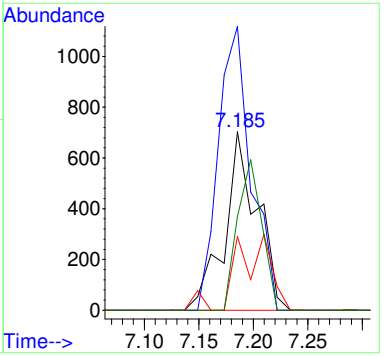


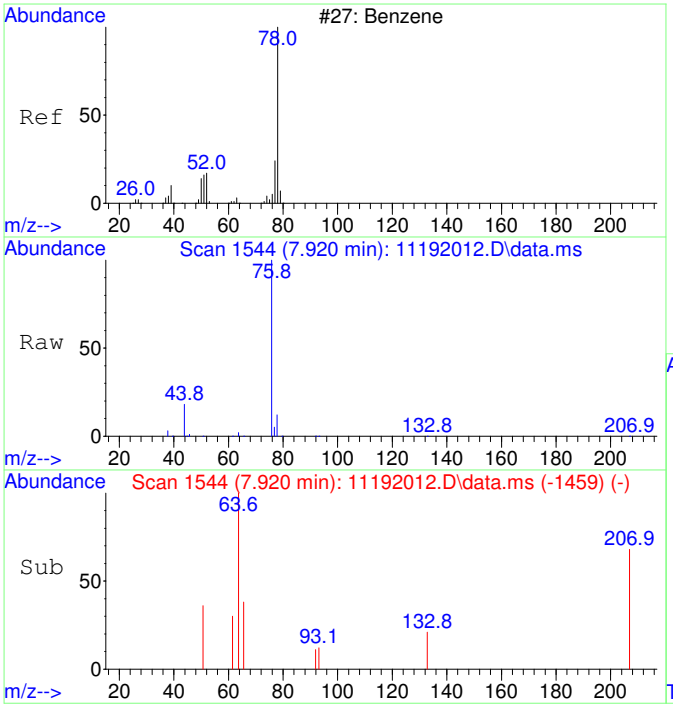


#32
Carbon tetrachloride SCAN
Concen: 76.45 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:117 Resp: 1467

Ion	Ratio	Lower	Upper
117	100		
119	159.2	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

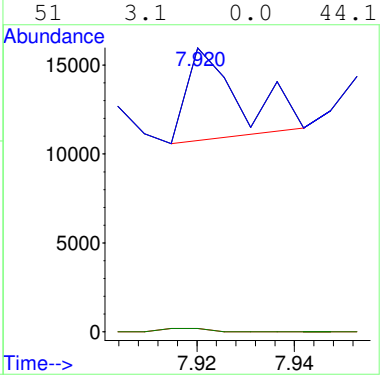


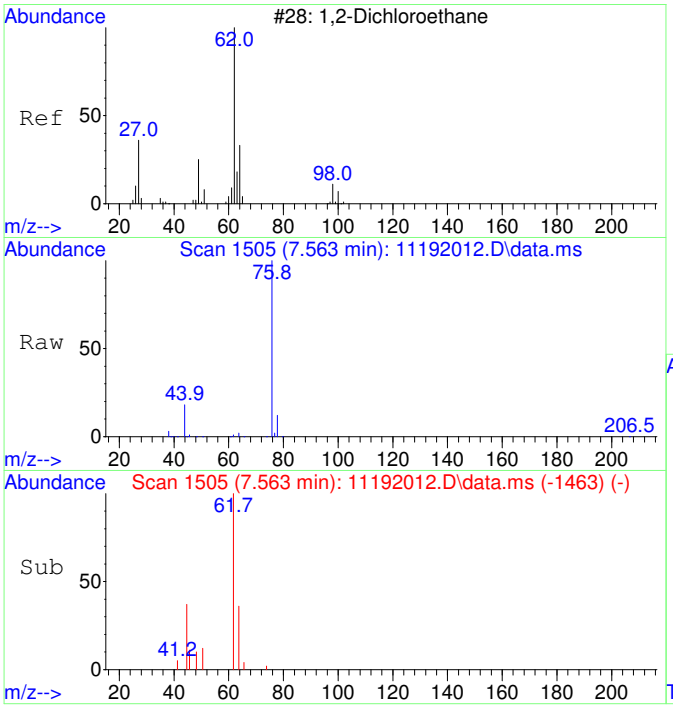


#33
Benzene SCAN
Concen: 78.63 ug/L
RT: 7.920 min Scan# 1544
Delta R.T. 0.418 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 78 Resp: 3983

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.1	0.0	47.9
51	3.1	0.0	44.1

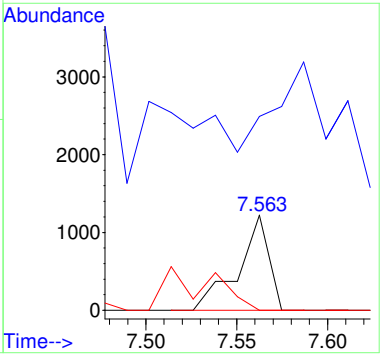


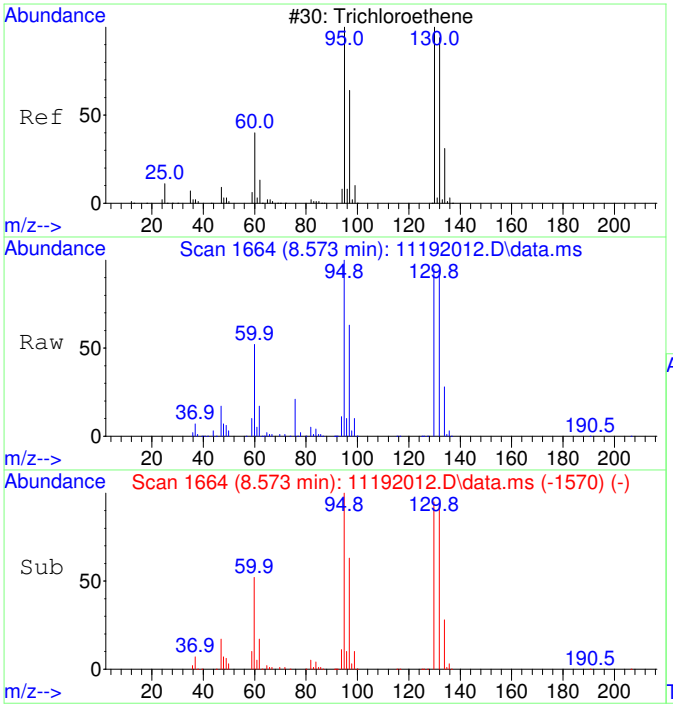


#34
1,2-Dichloroethane SCAN
Concen: 76.67 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 62 Resp: 1434

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	0.0	3.9	63.9#

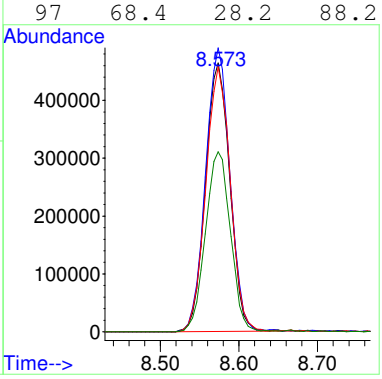


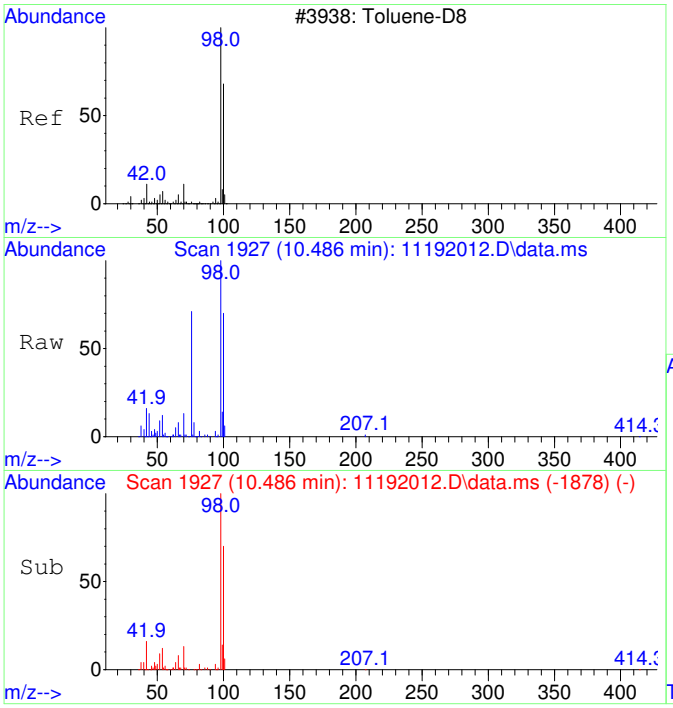


#35
Trichloroethene SCAN
Concen: 71736.84 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:130 Resp: 998567

Ion	Ratio	Lower	Upper
130	100		
95	105.2	60.5	120.5
132	99.9	59.6	119.6
97	68.4	28.2	88.2

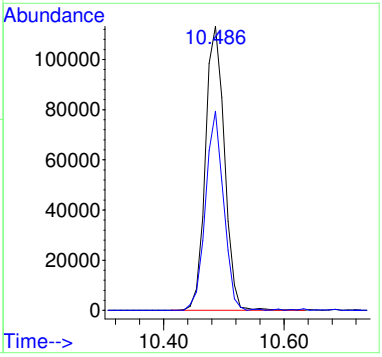


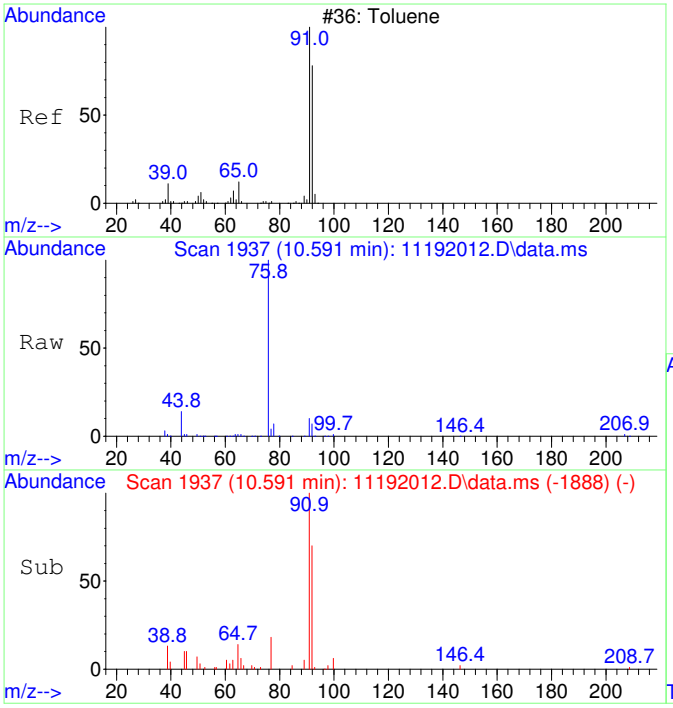


#36
Toluene-d8 SCAN
Concen: 4445.37 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 98 Resp: 248325

Ion	Ratio	Lower	Upper
98	100		
100	66.4	40.0	100.0

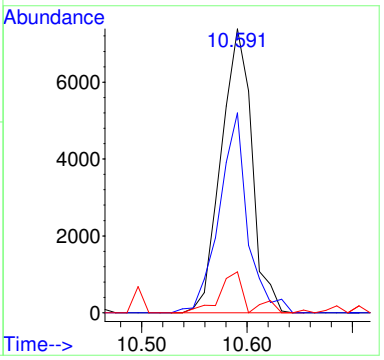


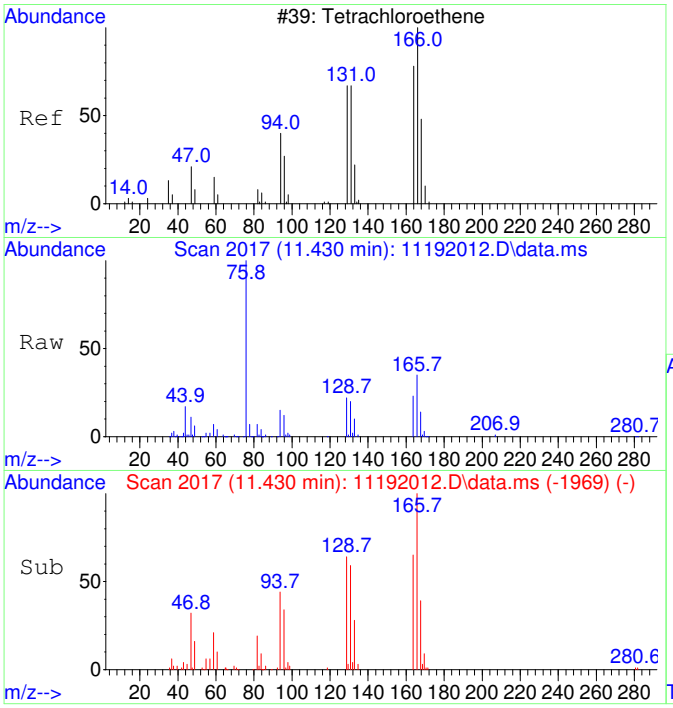


#37
Toluene SCAN
Concen: 210.40 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 15052

Ion	Ratio	Lower	Upper
91	100		
92	64.6	28.3	88.3
65	12.5	0.0	41.0

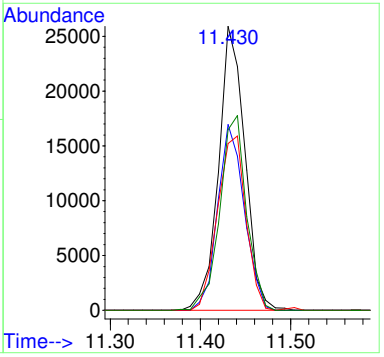


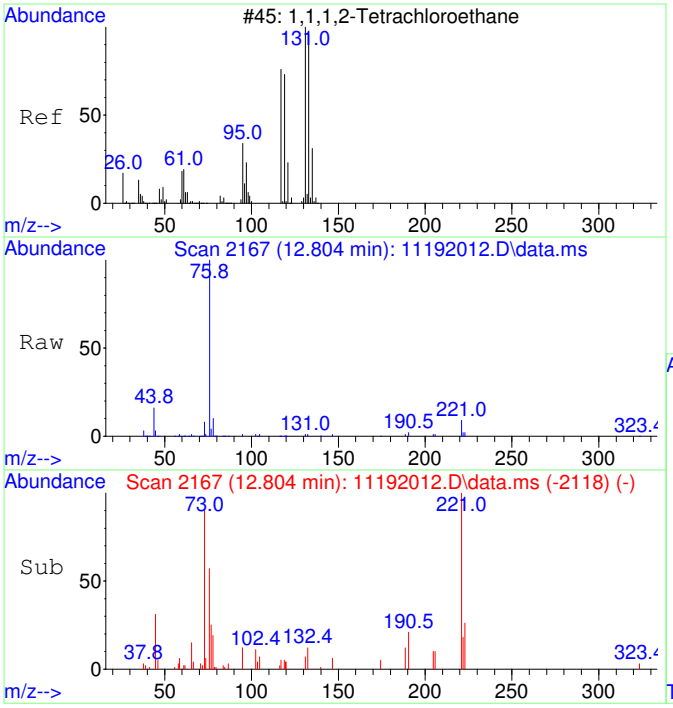


#39
Tetrachloroethene SCAN
Concen: 3067.66 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:166 Resp: 52724

Ion	Ratio	Lower	Upper
166	100		
164	66.1	50.9	110.9
131	66.2	38.7	98.7
129	69.8	41.8	101.8

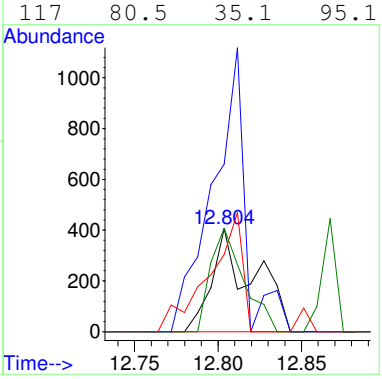


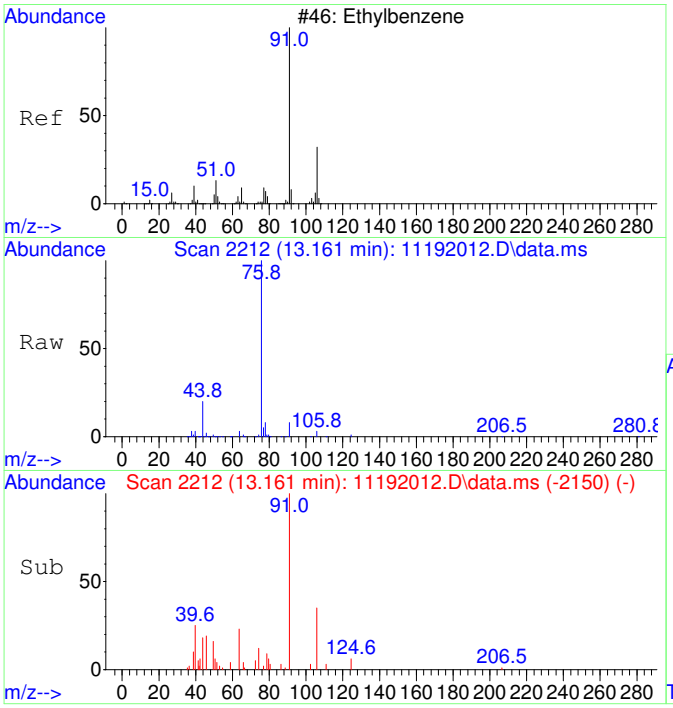


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 38.75 ug/L
RT: 12.804 min Scan# 2167
Delta R.T. -0.111 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:131 Resp: 701

Ion	Ratio	Lower	Upper
131	100		
133	215.7	66.9	126.9#
119	92.3	40.4	100.4
117	80.5	35.1	95.1

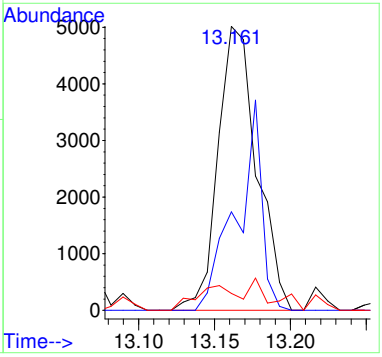


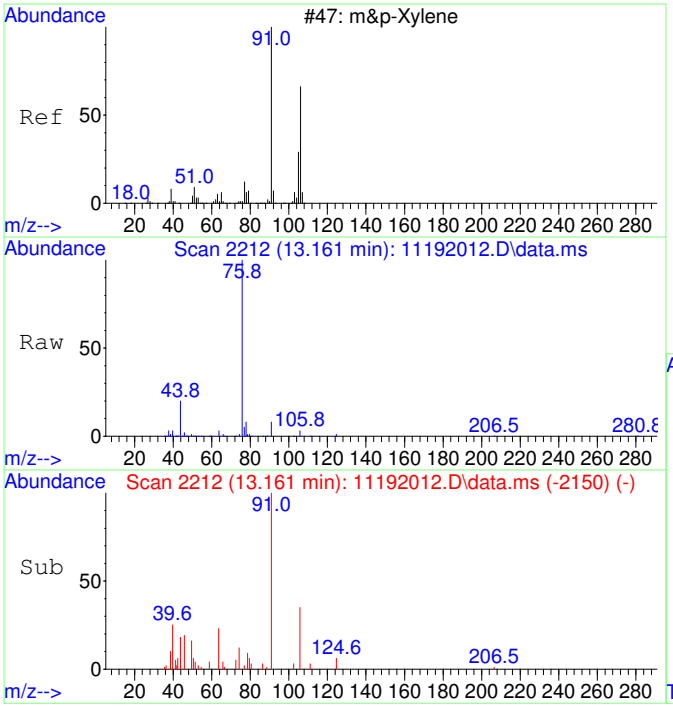


#42
Ethylbenzene SCAN
Concen: 68.65 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 8947

Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.1	83.1#
51	6.0	0.0	40.1

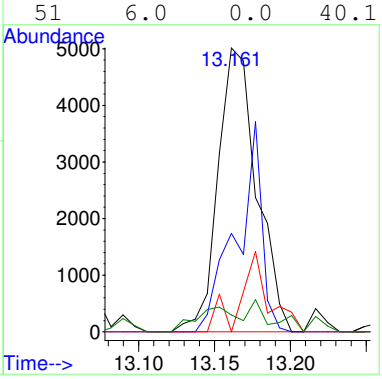


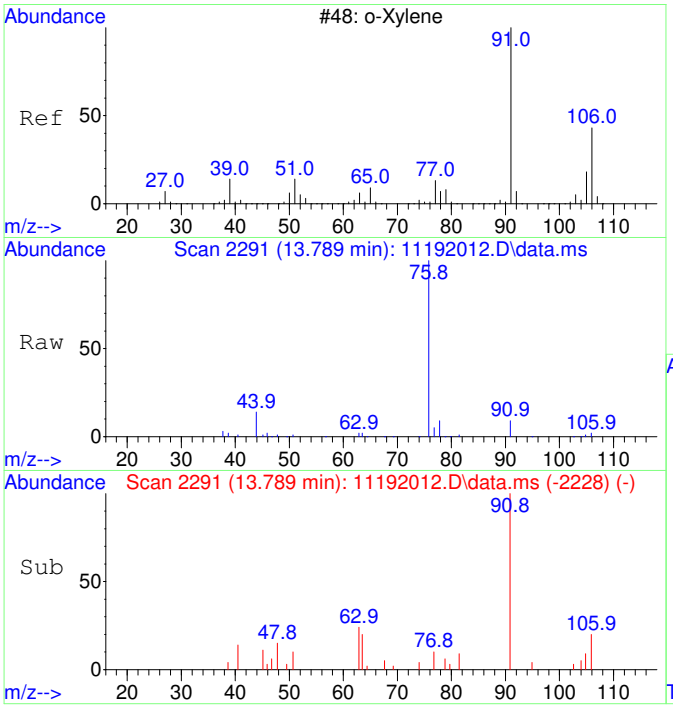


#43
m&p-Xylene SCAN
Concen: 68.65 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 8947

Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.1	83.1#
105	0.0	0.0	54.7
51	6.0	0.0	40.1

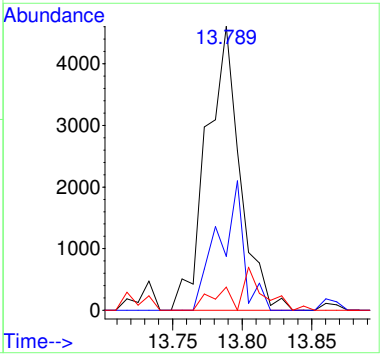


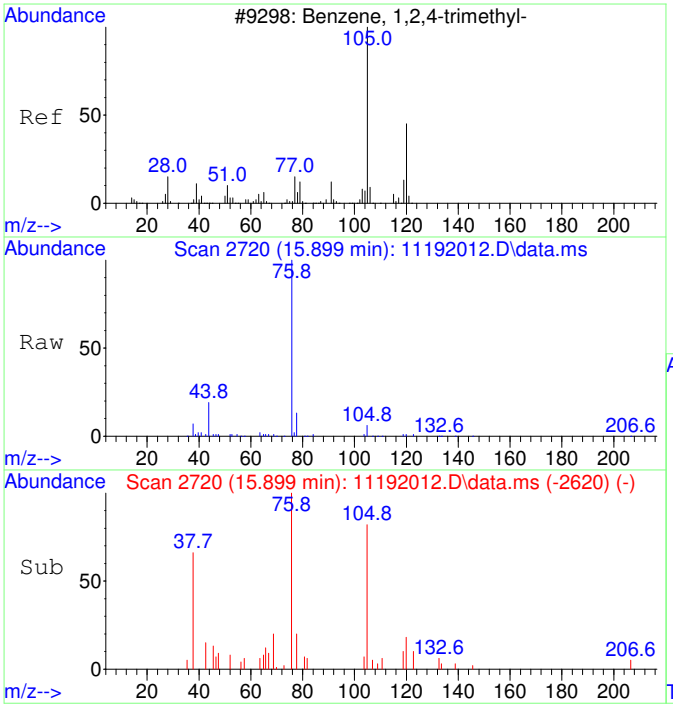


#44
o-Xylene SCAN
Concen: 110.53 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 7711

Ion	Ratio	Lower	Upper
91	100		
106	34.4	18.0	78.0
105	14.0	0.0	56.6

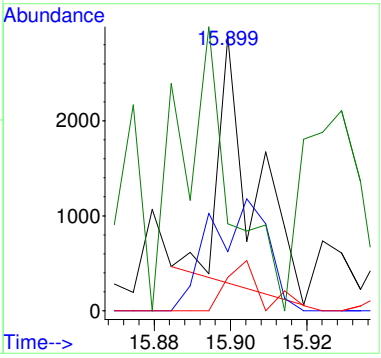




#47
1,2,4-Trimethylbenzene SCAN
Concen: 21.32 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.005 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:105 Resp: 1604

Ion	Ratio	Lower	Upper
105	100		
120	76.7	16.9	76.9
119	21.3	0.0	41.9
77	170.9	0.0	42.3#



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192012.D
Acq On : 19 Nov 2020 12:42
InstName : AG5975C
Operator : TD
Sample : 2011017-22
Misc :
ALS Vial : 12 Sample Multiplier: 1

M.I. Performed By:
TD at 11:31 am, Nov 23, 2020

M.I. Approved By:
ZR at 4:07 pm, Nov 23, 2020

Quant Time: Nov 23 08:14:32 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

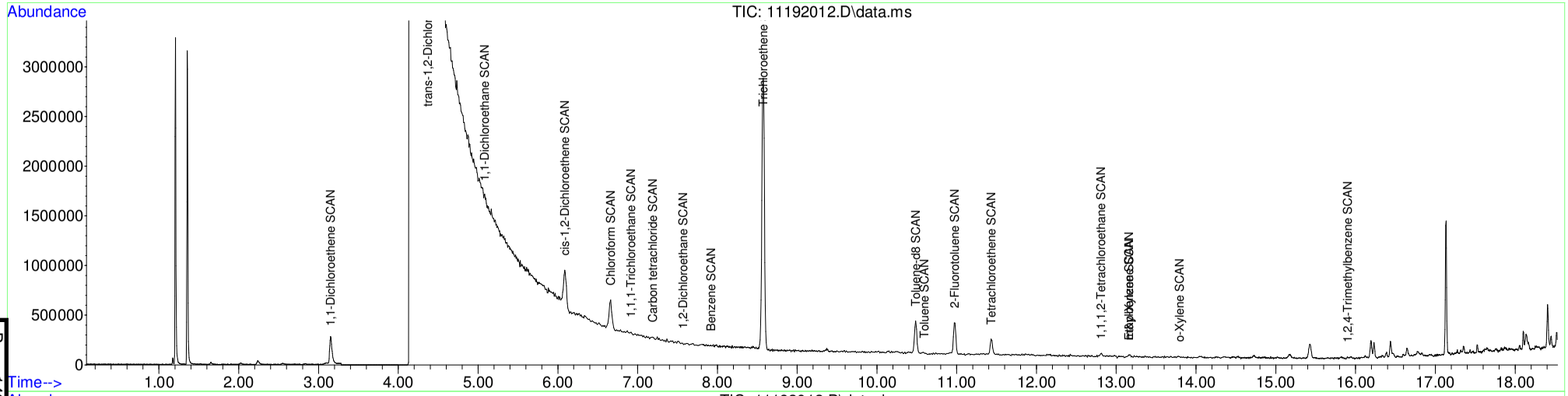
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	585956	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.487	98	494337	4309.56 ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.19%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	22184m	948.11 ug/L	
3] trans-1,2-Dichloroethene	4.369	61	34540	1277.67 ug/L	99
4] 1,1-Dichloroethane	5.086	63	26694	793.25 ug/L	97
5] cis-1,2-Dichloroethene	6.088	61	566961	15961.05 ug/L	100
6] Chloroform	6.652	83	517089	14222.29 ug/L	100
7] 1,1,1-Trichloroethane	6.919	97	23221	588.10 ug/L	99
8] Carbon tetrachloride	7.187	117	4607	123.97 ug/L	98
9] Benzene	7.503	78	17468	175.46 ug/L	72
10] 1,2-Dichloroethane	7.552	62	2158	60.72 ug/L #	1
11] Trichloroethene	8.575	130	2127341	70969.64 ug/L	94
13] Toluene	10.582	91	29253	200.03 ug/L	98
15] Tetrachloroethene	11.432	166	115912	2738.82 ug/L	100
18] Ethylbenzene	12.972	91	5500	30.90 ug/L	95
19] m&p-Xylene	13.162	91	16136	115.98 ug/L	96
20] o-Xylene	13.782	91	11378	76.55 ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	4903	29.84 ug/L	86
25) 2-Fluorotoluene SCAN	10.969	109	280550	4911.60 ug/L	99
26) 1,1-Dichloroethene SCAN	3.144	61	1011	83.34 ug/L	97
27) trans-1,2-Dichloroethe...	4.368	61	20401	1359.09 ug/L #	36
28) 1,1-Dichloroethane SCAN	5.078	63	14769	850.16 ug/L	83
29) cis-1,2-Dichloroethene...	6.086	61	300251	16131.68 ug/L #	85
30) Chloroform SCAN	6.662	83	280228	13881.02 ug/L	96
31) 1,1,1-Trichloroethane ...	6.918	97	13003	706.81 ug/L	81
32) Carbon tetrachloride SCAN	7.185	117	1467	76.45 ug/L #	47
33) Benzene SCAN	7.920	78	3983	78.63 ug/L	93
34) 1,2-Dichloroethane SCAN	7.563	62	1434	76.67 ug/L #	40
35) Trichloroethene SCAN	8.573	130	998567	71736.84 ug/L	87
36) Toluene-d8 SCAN	10.486	98	248325	4445.37 ug/L	96
37) Toluene SCAN	10.591	91	15052	210.40 ug/L	92
39) Tetrachloroethene SCAN	11.430	166	52724	3067.66 ug/L	92
41) 1,1,1,2-Tetrachloroeth...	12.804	131	701	38.75 ug/L #	36
42) Ethylbenzene SCAN	13.161	91	8947	68.65 ug/L #	35
43) m&p-Xylene SCAN	13.161	91	8947	68.65 ug/L #	40
44) o-Xylene SCAN	13.789	91	7711	110.53 ug/L	78
47) 1,2,4-Trimethylbenzene...	15.899	105	1604	21.32 ug/L #	1

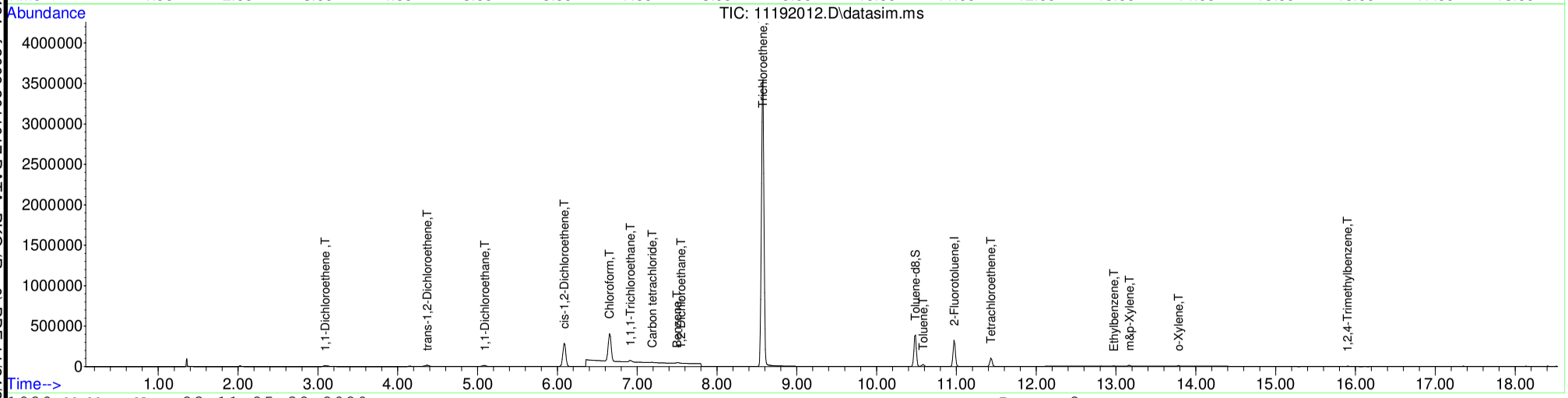
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192012.D
Acq On : 19 Nov 2020 12:42
InstName : AG5975C
Operator : TD
Sample : 2011017-22
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 23 08:14:32 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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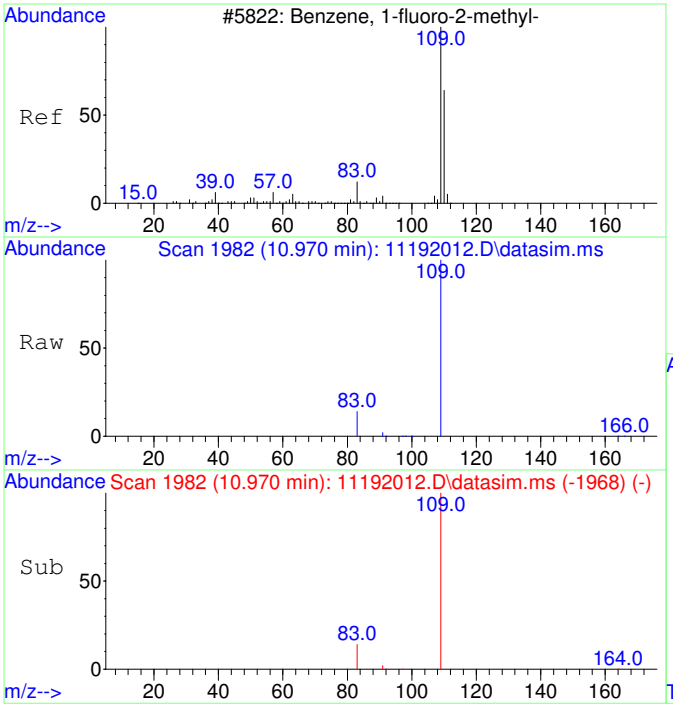
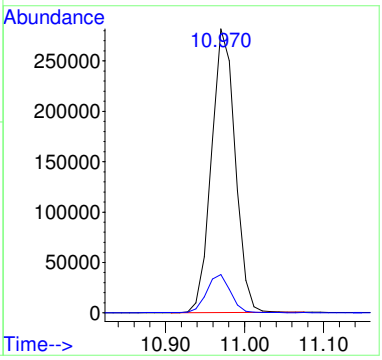
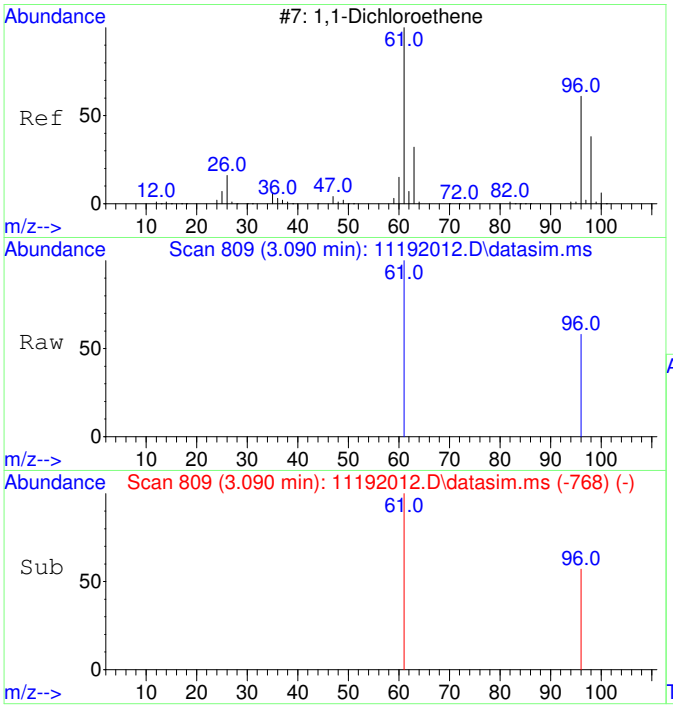


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:109 Resp: 585956

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

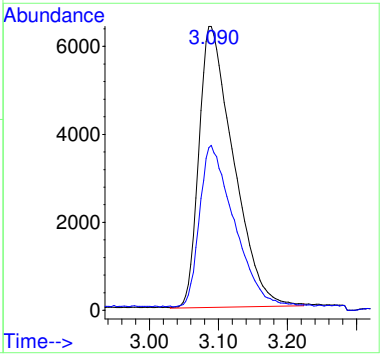


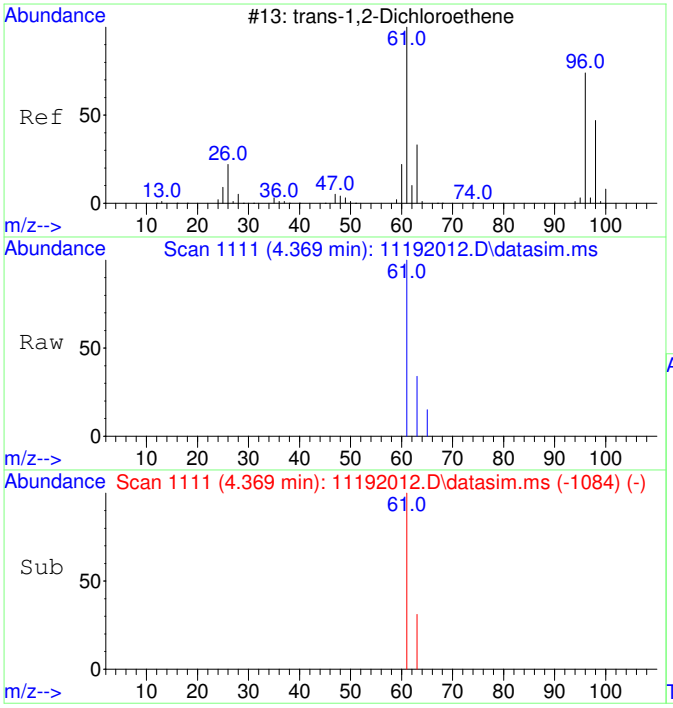


#2
1,1-Dichloroethene
Concen: 948.11 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 61 Resp: 22184

Ion	Ratio	Lower	Upper
61	100		
96	59.3	37.2	97.2

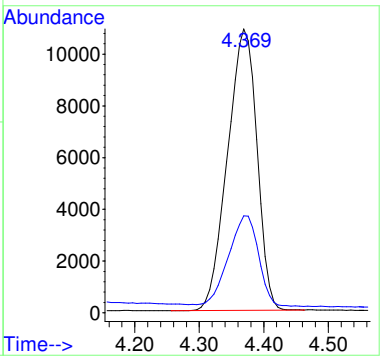


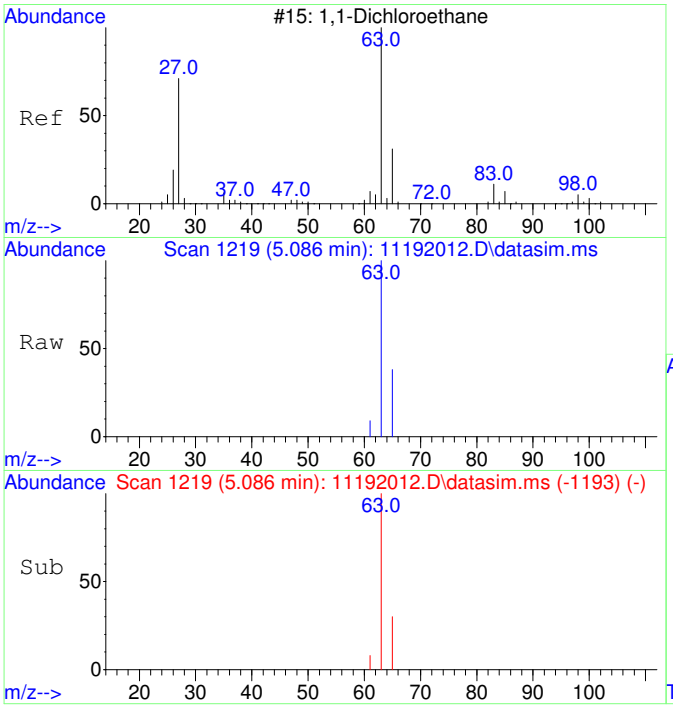


#3
trans-1,2-Dichloroethene
Concen: 1277.67 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. 0.026 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 61 Resp: 34540

Ion	Ratio	Lower	Upper
61	100		
63	32.9	2.4	62.4

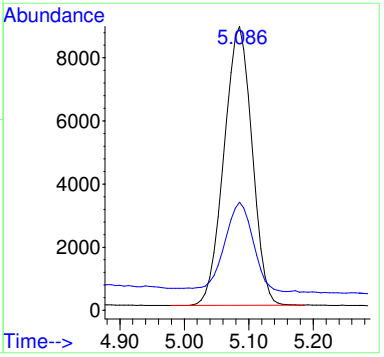


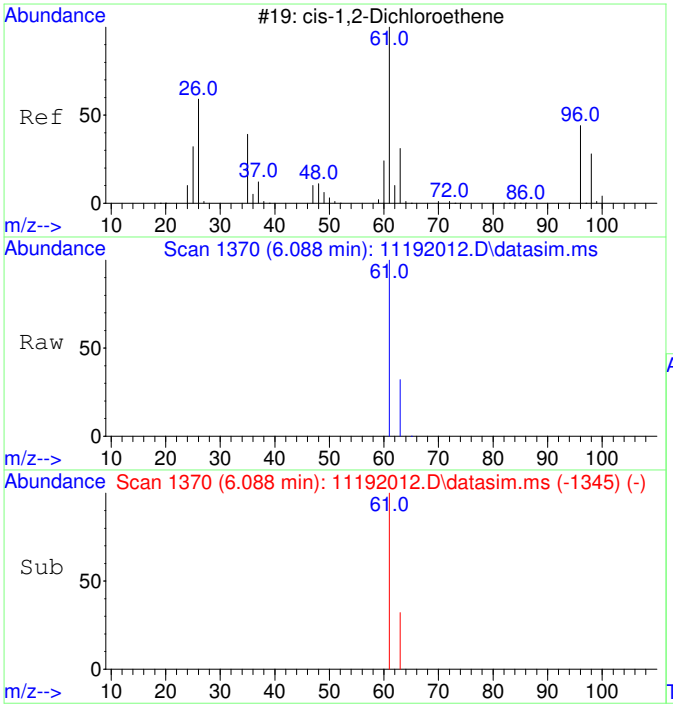


#4
1,1-Dichloroethane
Concen: 793.25 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 63 Resp: 26694

Ion	Ratio	Lower	Upper
63	100		
65	33.5	1.8	61.8

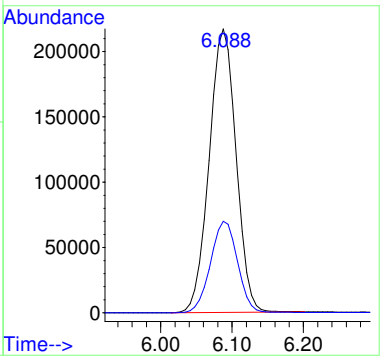


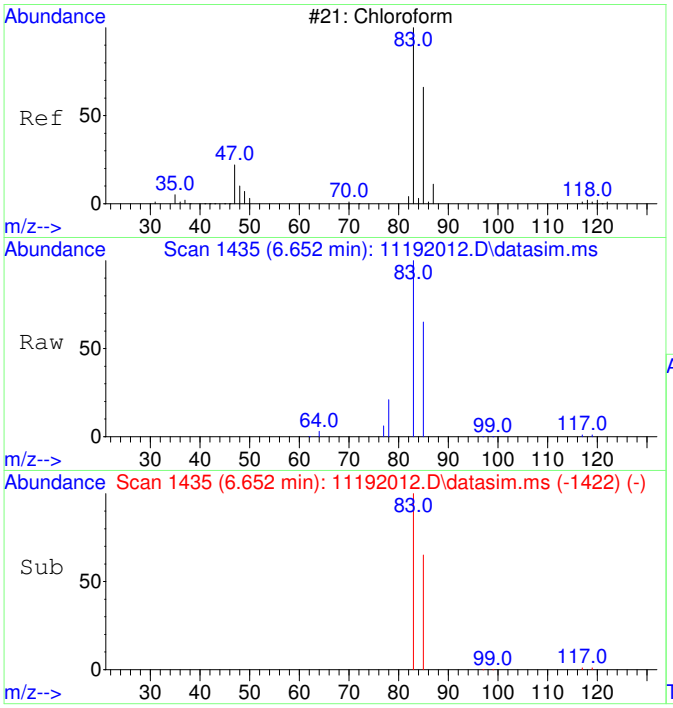


#5
cis-1,2-Dichloroethene
Concen: 15961.05 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 61 Resp: 566961

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.5	62.5

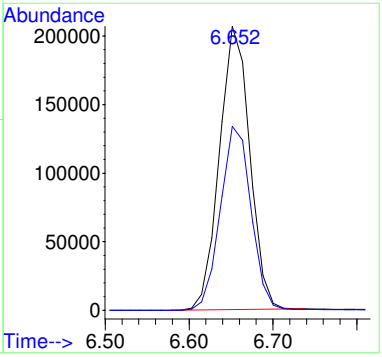


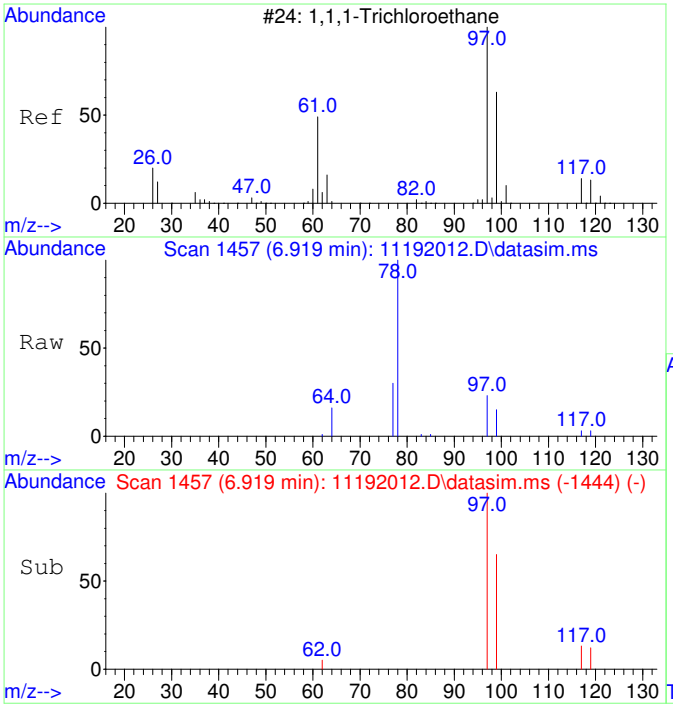


#6
Chloroform
Concen: 14222.29 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 83 Resp: 517089

Ion	Ratio	Lower	Upper
83	100		
85	65.4	35.1	95.1

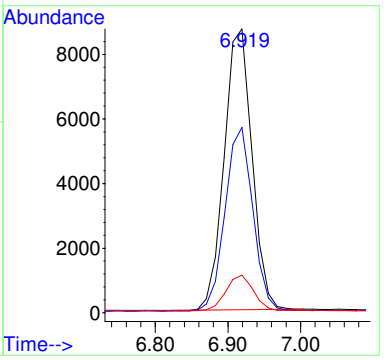


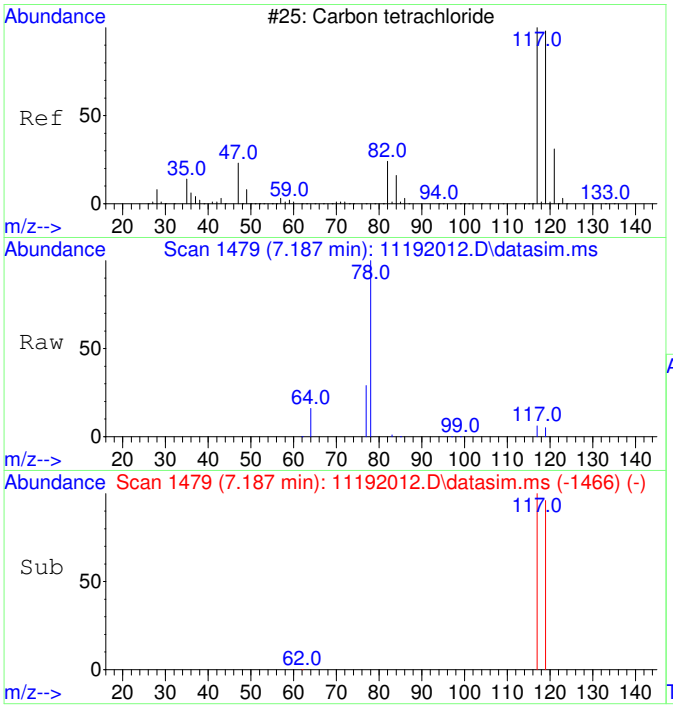


#7
1,1,1-Trichloroethane
Concen: 588.10 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 97 Resp: 23221

Ion	Ratio	Lower	Upper
97	100		
99	64.8	34.6	94.6
117	12.4	0.0	43.2

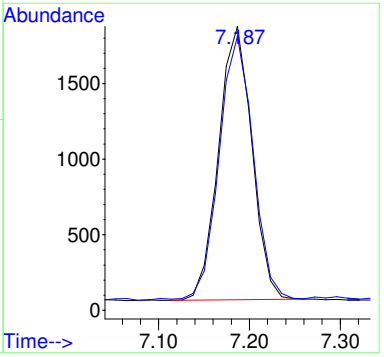


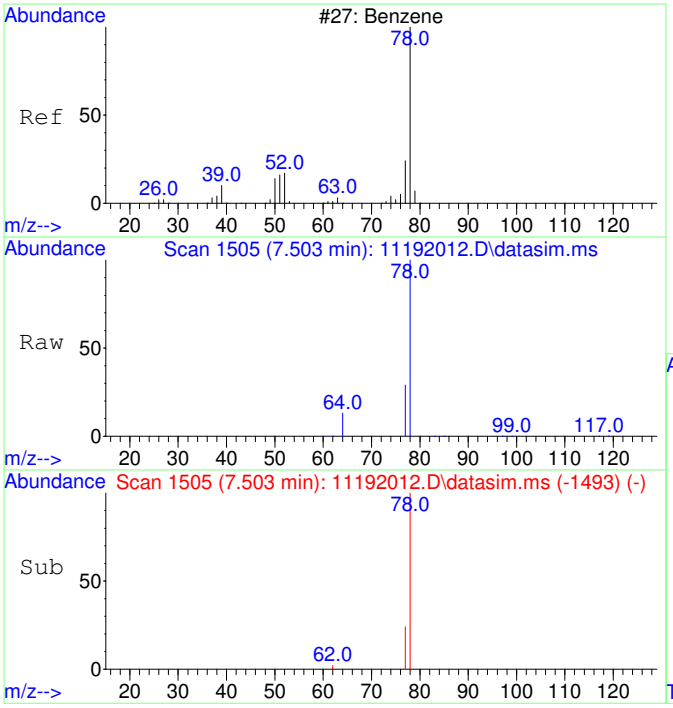


#8
Carbon tetrachloride
Concen: 123.97 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:117 Resp: 4607

Ion	Ratio	Lower	Upper
117	100		
119	98.2	66.4	126.4

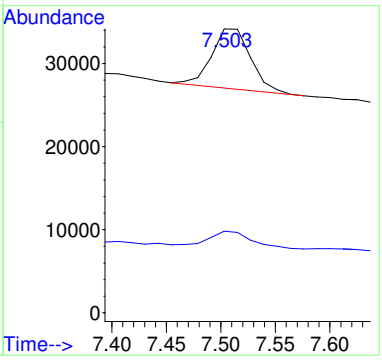


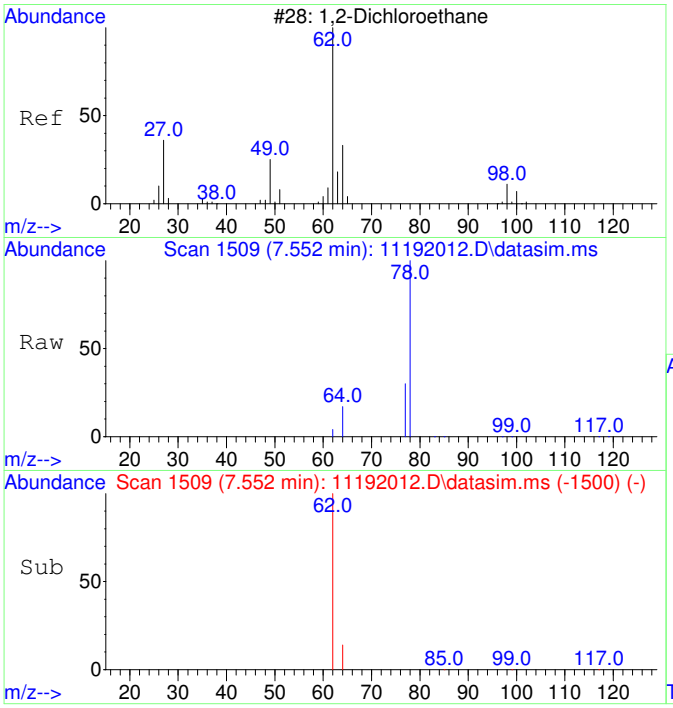


#9
Benzene
Concen: 175.46 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 78 Resp: 17468

Ion	Ratio	Lower	Upper
78	100		
77	37.0	0.0	53.2

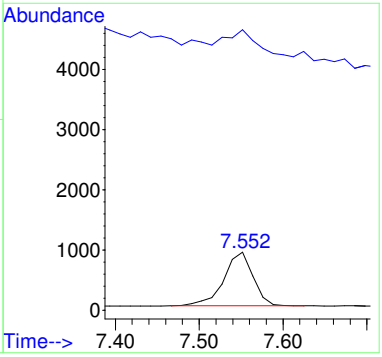


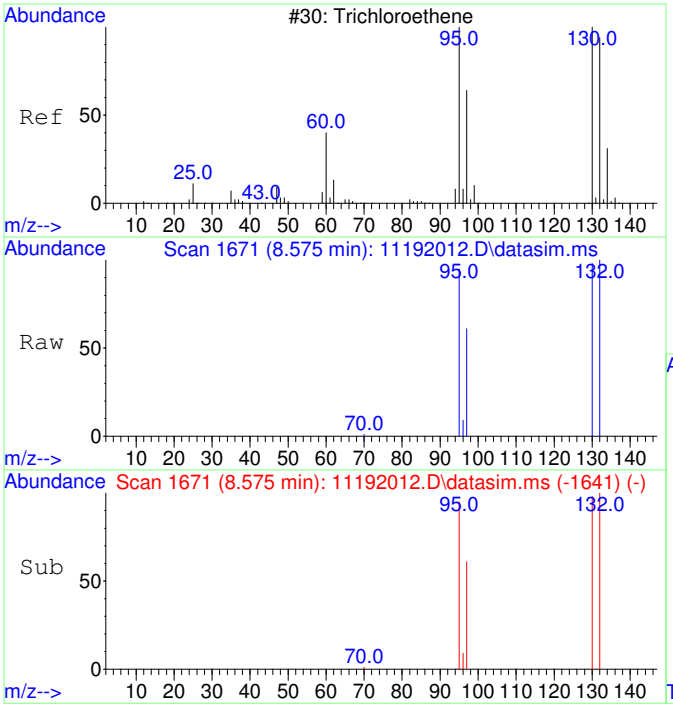


#10
1,2-Dichloroethane
Concen: 60.72 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 62 Resp: 2158

Ion	Ratio	Lower	Upper
62	100		
64	107.7	2.3	62.3#

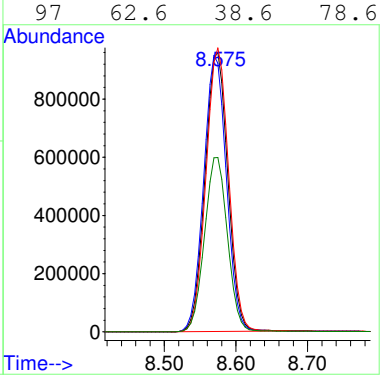


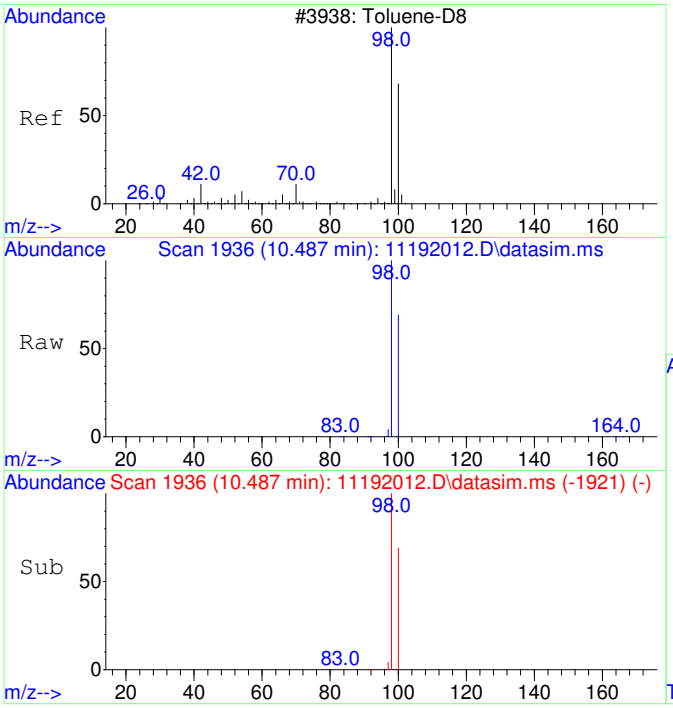


#11
Trichloroethene
Concen: 70969.64 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:130 Resp: 2127341

Ion	Ratio	Lower	Upper
130	100		
95	98.2	60.7	120.7
132	100.6	76.0	116.0
97	62.6	38.6	78.6

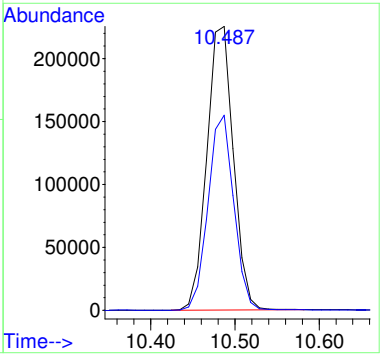


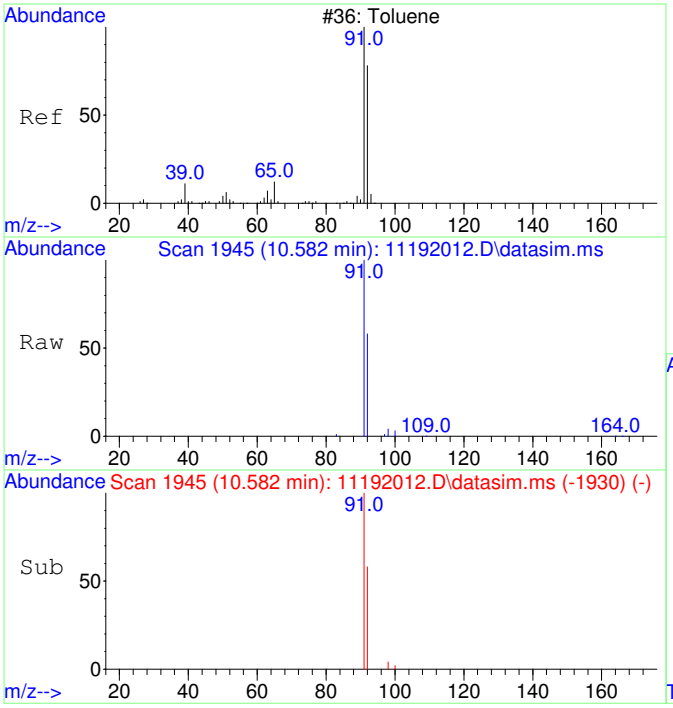


#12
Toluene-d8
Concen: 4309.56 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 98 Resp: 494337

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

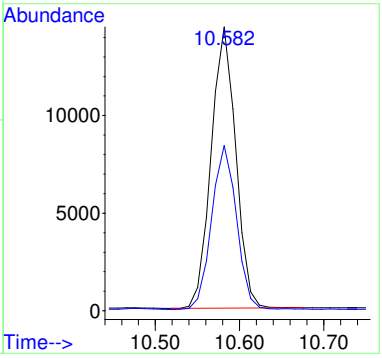


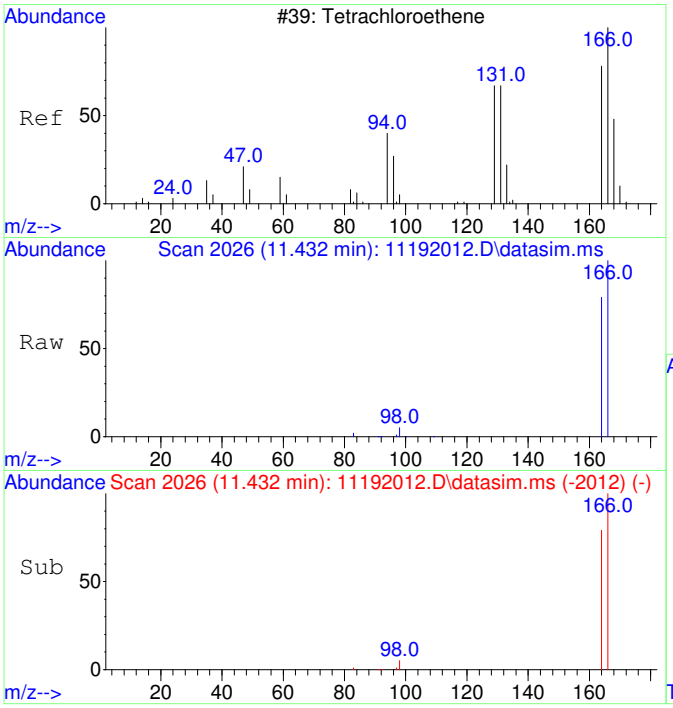


#13
Toluene
Concen: 200.03 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 29253

Ion	Ratio	Lower	Upper
91	100		
92	58.5	29.9	89.9

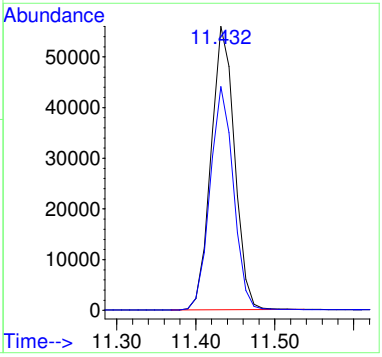


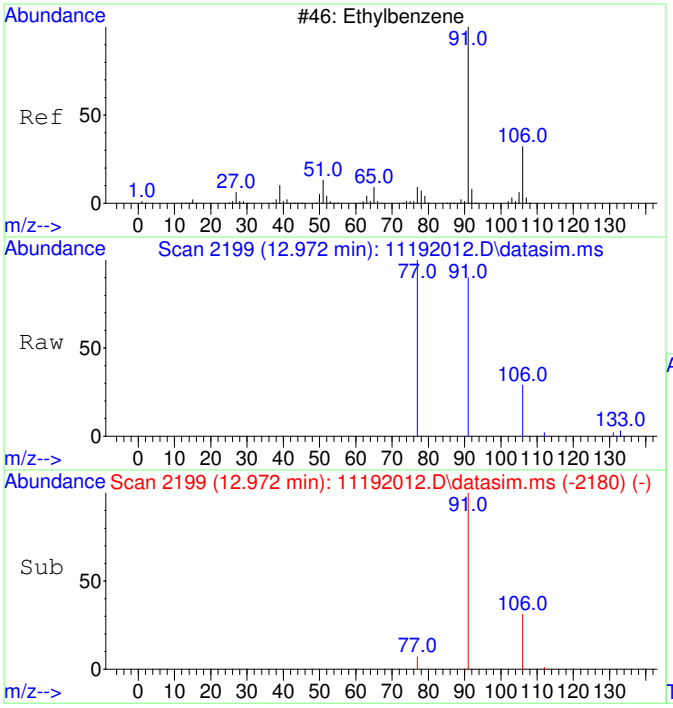


#15
Tetrachloroethene
Concen: 2738.82 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:166 Resp: 115912

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

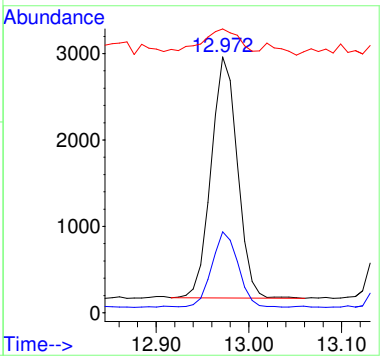


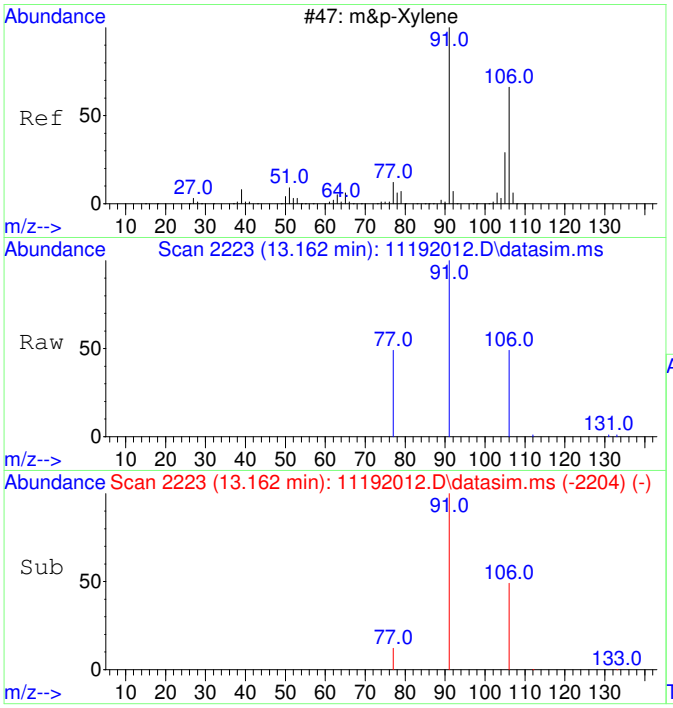


#18
Ethylbenzene
Concen: 30.90 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 5500

Ion	Ratio	Lower	Upper
91	100		
106	31.7	3.0	63.0
77	13.9	0.0	38.2

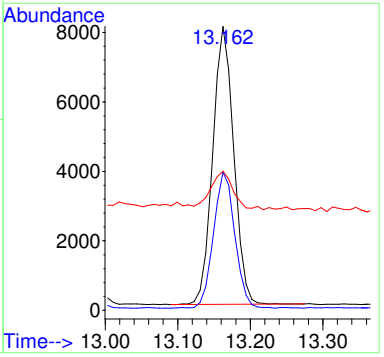


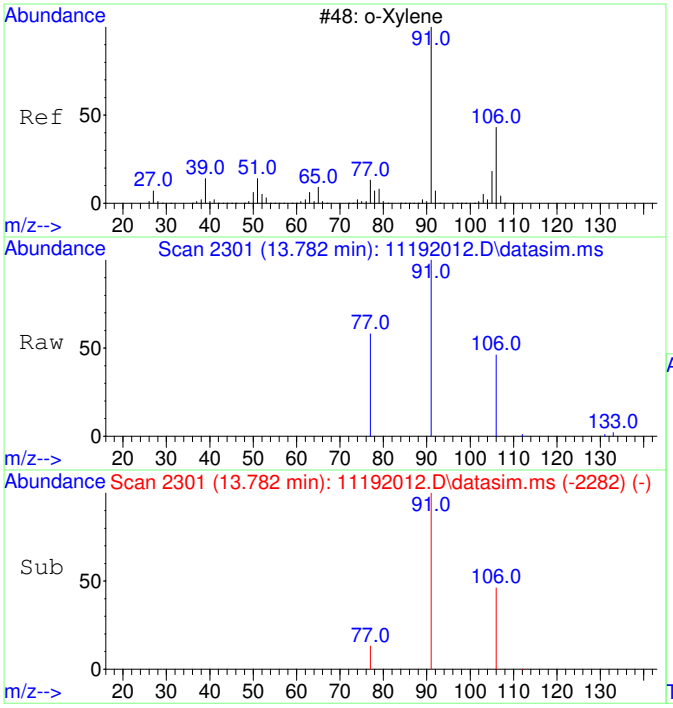


#19
m&p-Xylene
Concen: 115.98 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 16136

Ion	Ratio	Lower	Upper
91	100		
106	49.5	22.2	82.2
77	13.2	0.0	42.4

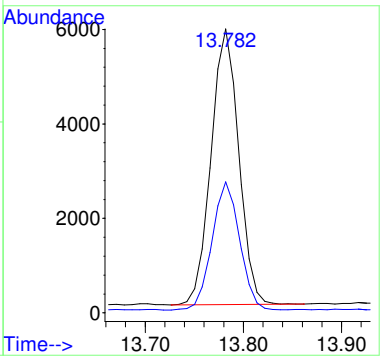


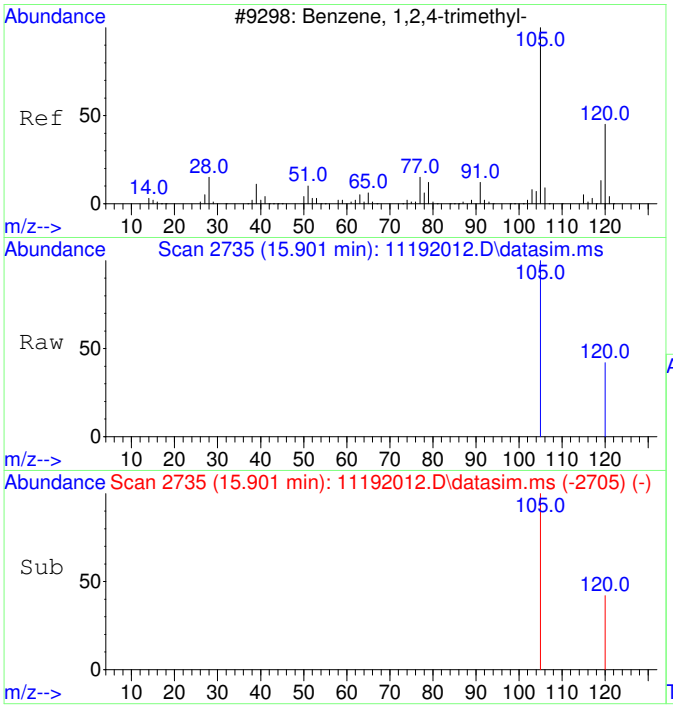


#20
o-Xylene
Concen: 76.55 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 11378

Ion	Ratio	Lower	Upper
91	100		
106	46.3	19.2	79.2

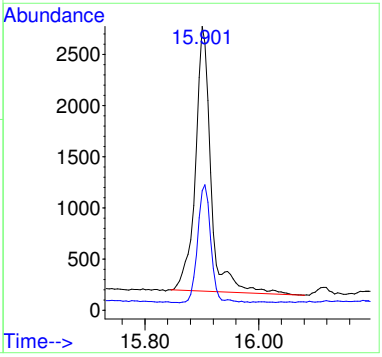


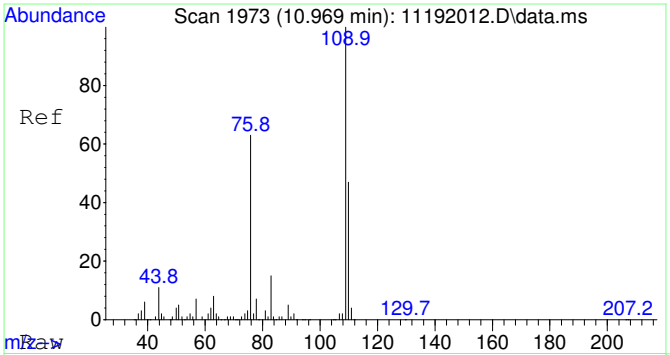


#23
1,2,4-Trimethylbenzene
Concen: 29.84 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:105 Resp: 4903

Ion	Ratio	Lower	Upper
105	100		
120	37.5	17.2	77.2

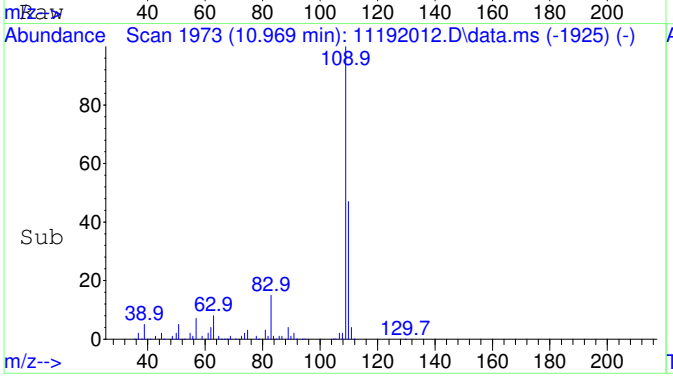


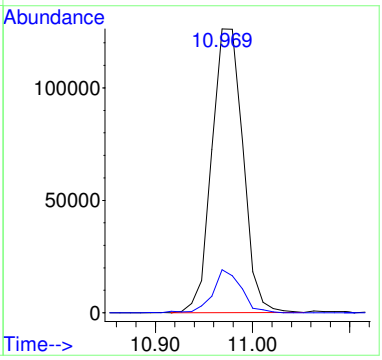


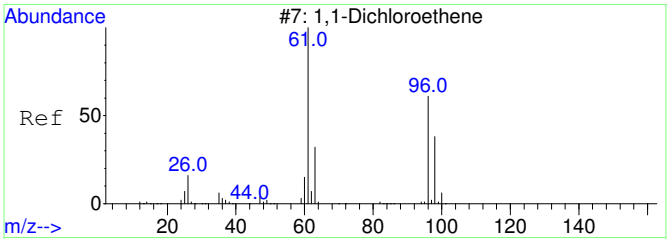
#25
2-Fluorotoluene SCAN
Concen: 4911.60 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:109 Resp: 280550

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	43.8



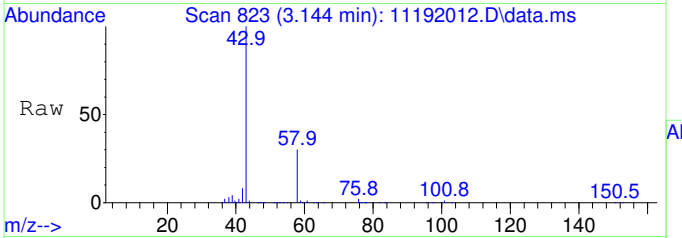


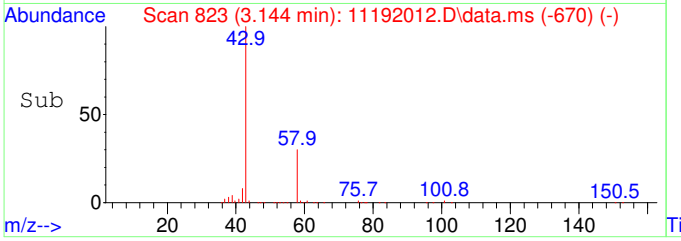


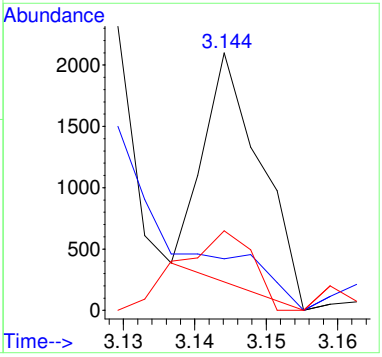
#26
1,1-Dichloroethene SCAN
Concen: 83.34 ug/L
RT: 3.144 min Scan# 823
Delta R.T. 0.067 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

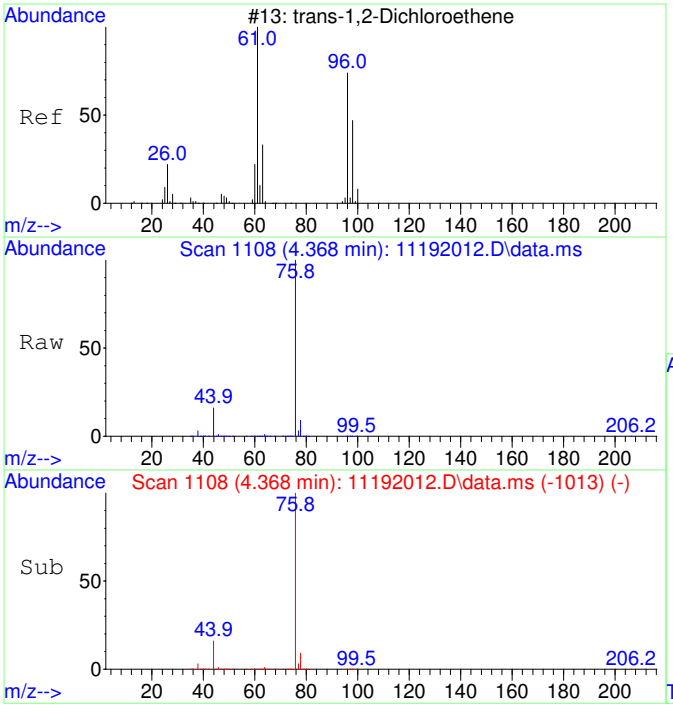
Tgt Ion: 61 Resp: 1011

Ion	Ratio	Lower	Upper
61	100		
96	60.9	33.1	93.1
98	38.5	11.2	71.2





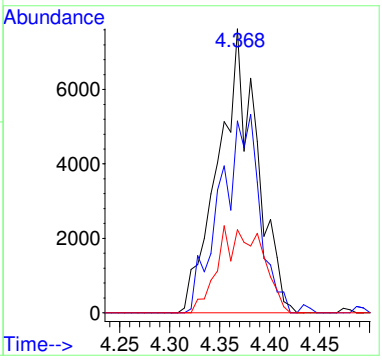


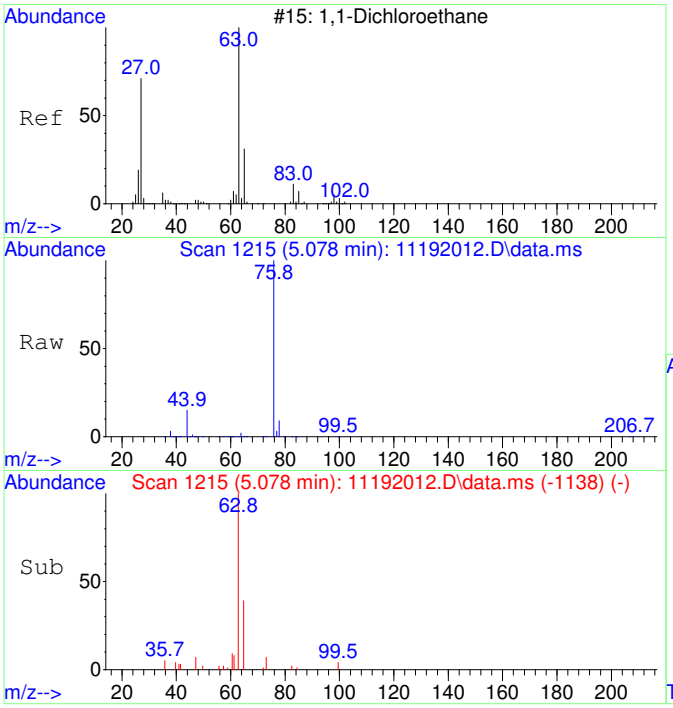


#27
trans-1,2-Dichloroethene SCAN
Concen: 1359.09 ug/L
RT: 4.368 min Scan# 1108
Delta R.T. 0.020 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 61 Resp: 20401

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	34.7	20.5	80.5

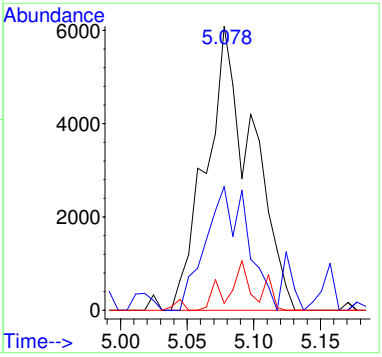


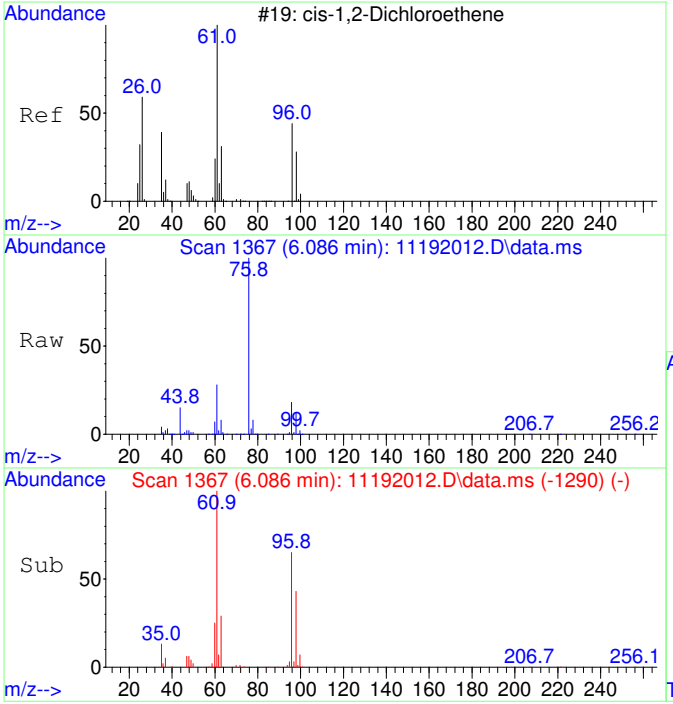


#28
1,1-Dichloroethane SCAN
Concen: 850.16 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 63 Resp: 14769

Ion	Ratio	Lower	Upper
63	100		
65	39.3	1.3	61.3
83	6.2	0.0	45.9

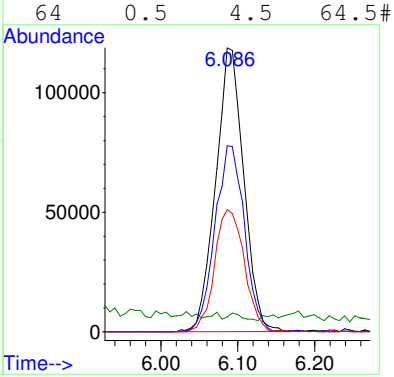


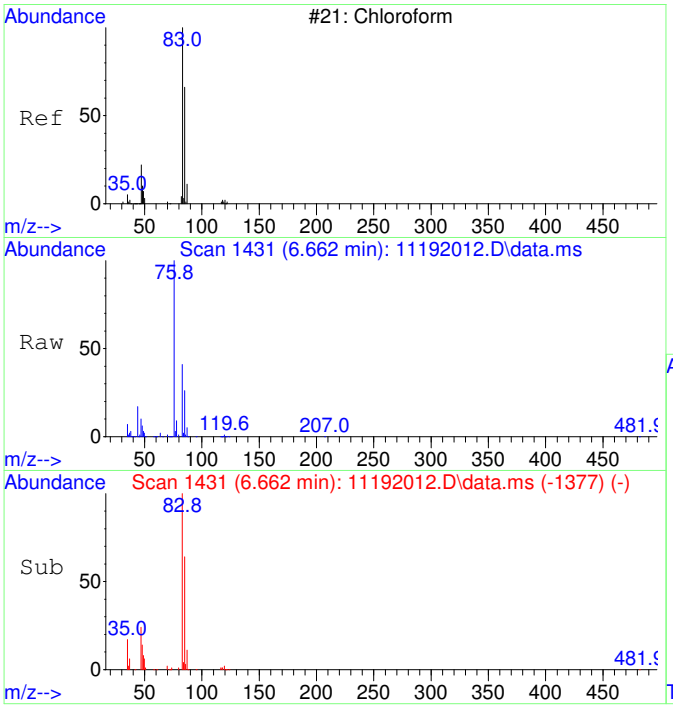


#29
cis-1,2-Dichloroethene SCAN
Concen: 16131.68 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 61 Resp: 300251

Ion	Ratio	Lower	Upper
61	100		
96	69.0	39.9	99.9
98	45.9	13.5	73.5
64	0.5	4.5	64.5#

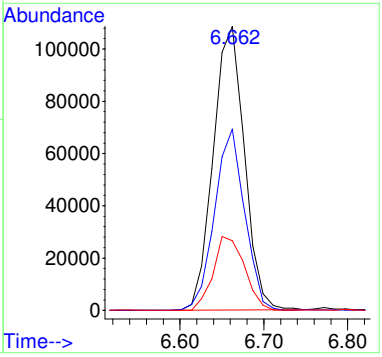


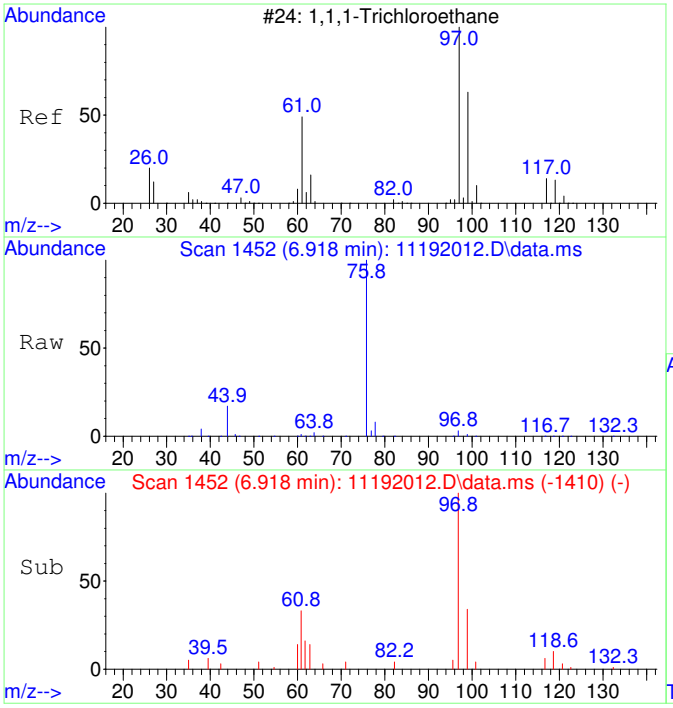


#30
Chloroform SCAN
Concen: 13881.02 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 83 Resp: 280228

Ion	Ratio	Lower	Upper
83	100		
85	61.5	34.6	94.6
47	26.2	0.0	53.4

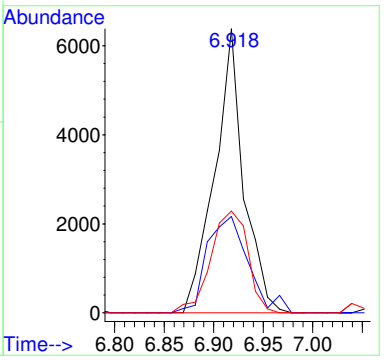


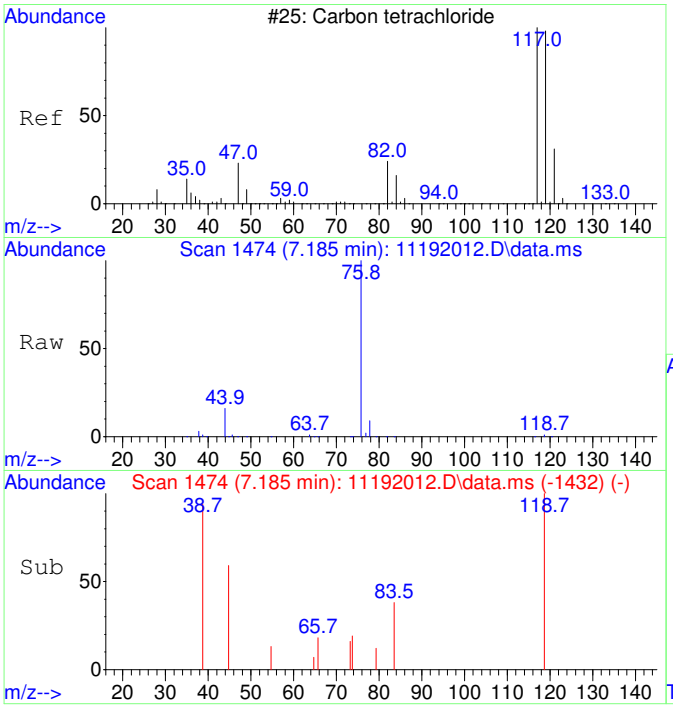


#31
1,1,1-Trichloroethane SCAN
Concen: 706.81 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 97 Resp: 13003

Ion	Ratio	Lower	Upper
97	100		
99	48.3	43.6	103.6
61	45.8	18.0	78.0

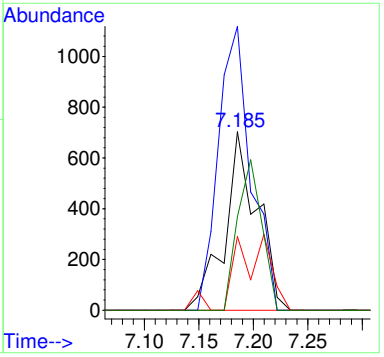


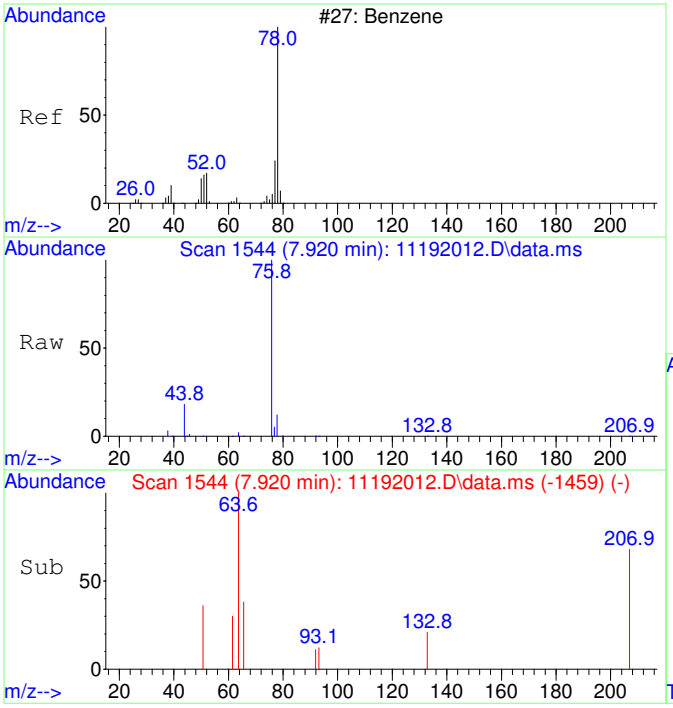


#32
Carbon tetrachloride SCAN
Concen: 76.45 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:117 Resp: 1467

Ion	Ratio	Lower	Upper
117	100		
119	159.2	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

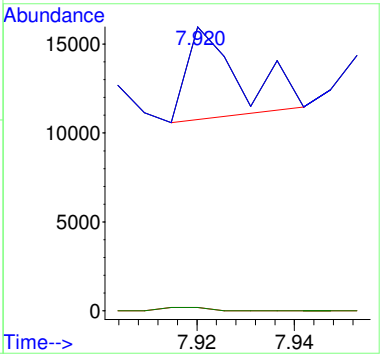


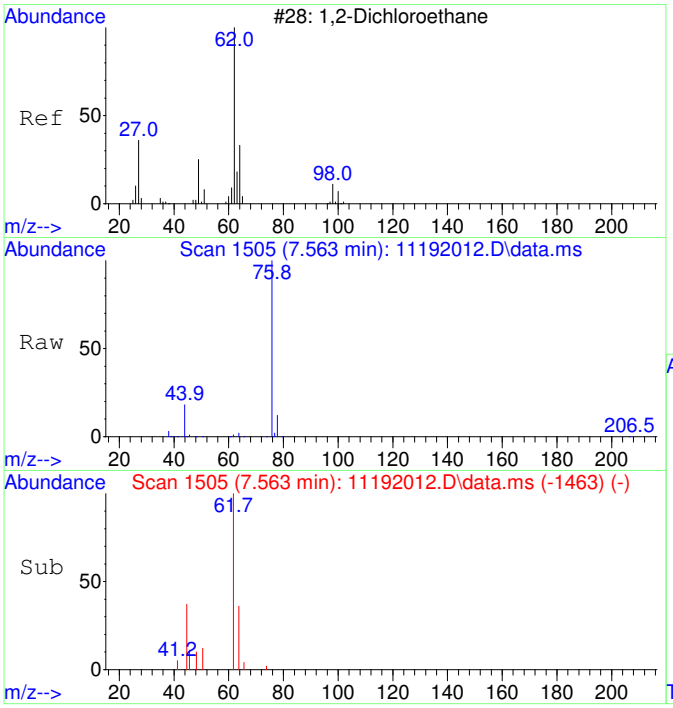


#33
Benzene SCAN
Concen: 78.63 ug/L
RT: 7.920 min Scan# 1544
Delta R.T. 0.418 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 78 Resp: 3983

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.1	0.0	47.9
51	3.1	0.0	44.1

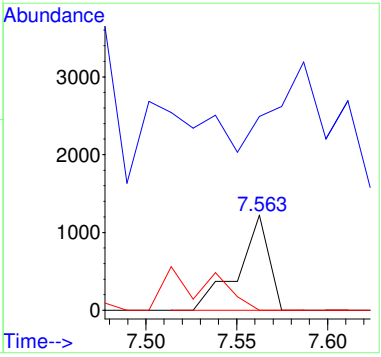


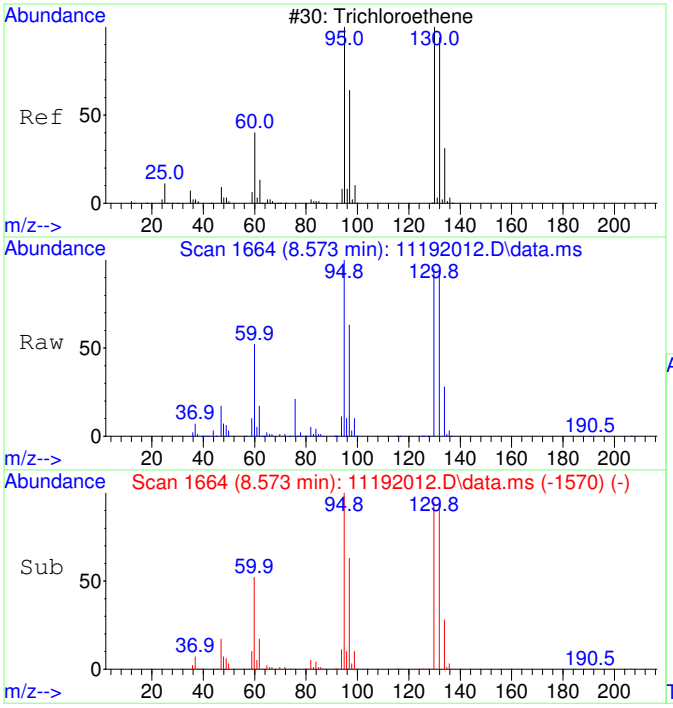


#34
1,2-Dichloroethane SCAN
Concen: 76.67 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 62 Resp: 1434

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	0.0	3.9	63.9#

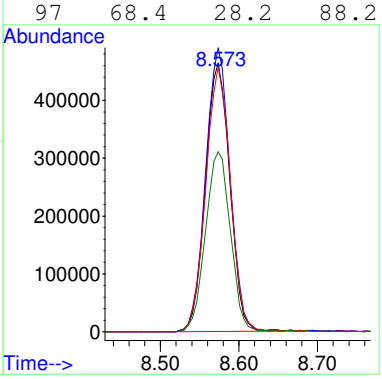


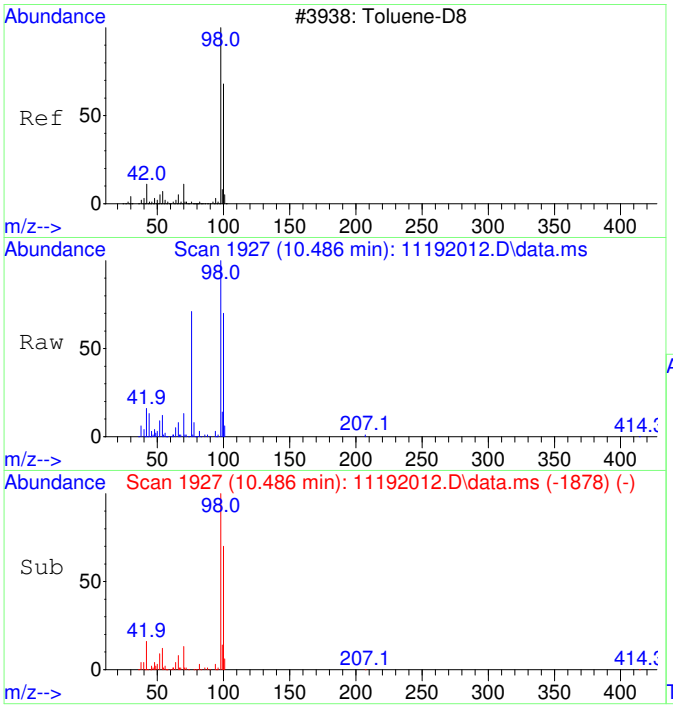


#35
Trichloroethene SCAN
Concen: 71736.84 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:130 Resp: 998567

Ion	Ratio	Lower	Upper
130	100		
95	105.2	60.5	120.5
132	99.9	59.6	119.6
97	68.4	28.2	88.2

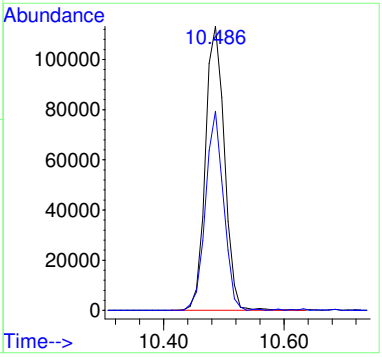


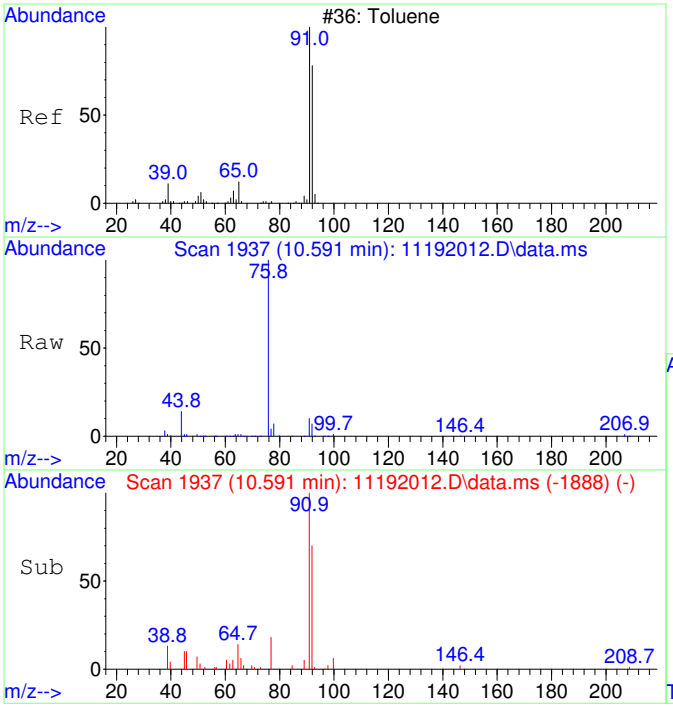


#36
Toluene-d8 SCAN
Concen: 4445.37 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 98 Resp: 248325

Ion	Ratio	Lower	Upper
98	100		
100	66.4	40.0	100.0

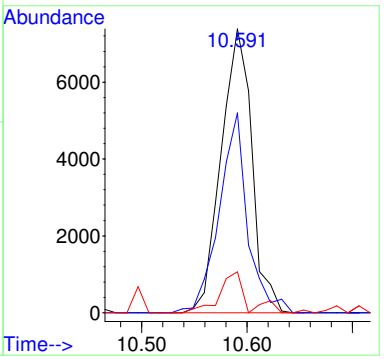


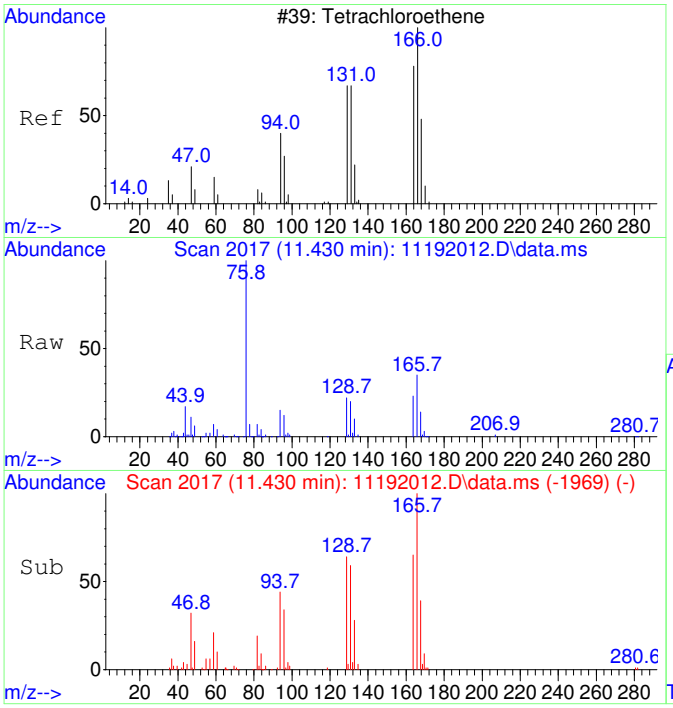


#37
Toluene SCAN
Concen: 210.40 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 15052

Ion	Ratio	Lower	Upper
91	100		
92	64.6	28.3	88.3
65	12.5	0.0	41.0

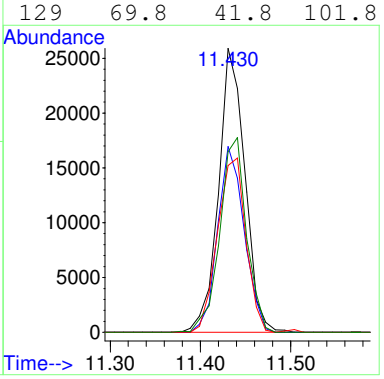


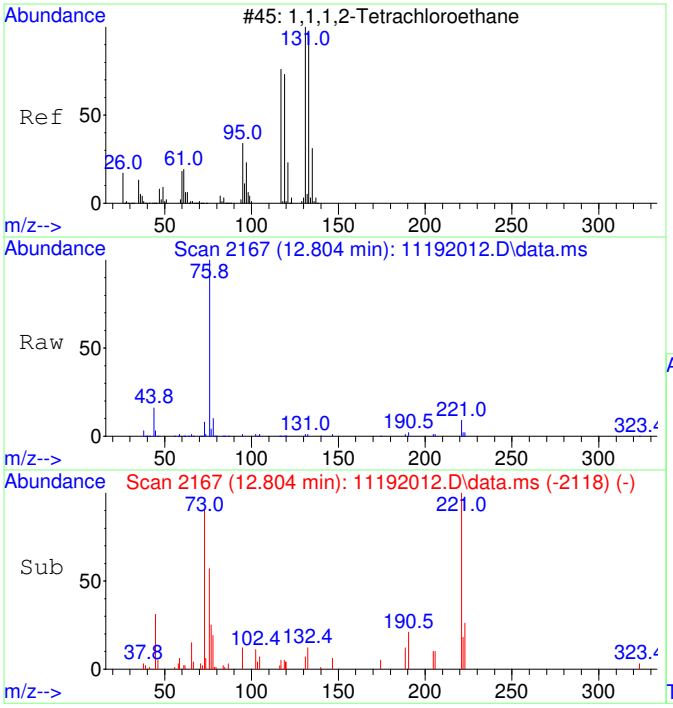


#39
Tetrachloroethene SCAN
Concen: 3067.66 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:166 Resp: 52724

Ion	Ratio	Lower	Upper
166	100		
164	66.1	50.9	110.9
131	66.2	38.7	98.7
129	69.8	41.8	101.8

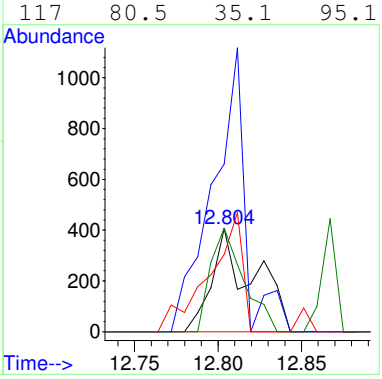


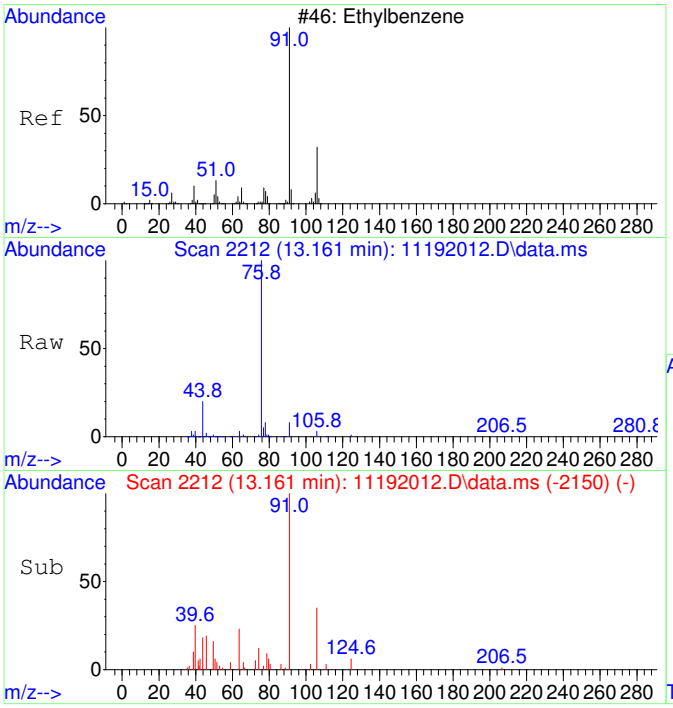


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 38.75 ug/L
RT: 12.804 min Scan# 2167
Delta R.T. -0.111 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:131 Resp: 701

Ion	Ratio	Lower	Upper
131	100		
133	215.7	66.9	126.9#
119	92.3	40.4	100.4
117	80.5	35.1	95.1

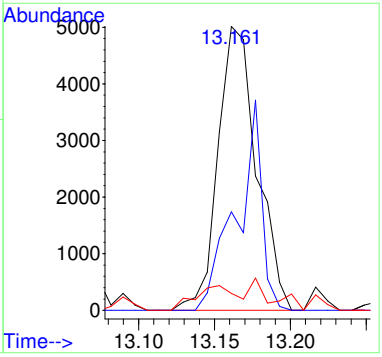


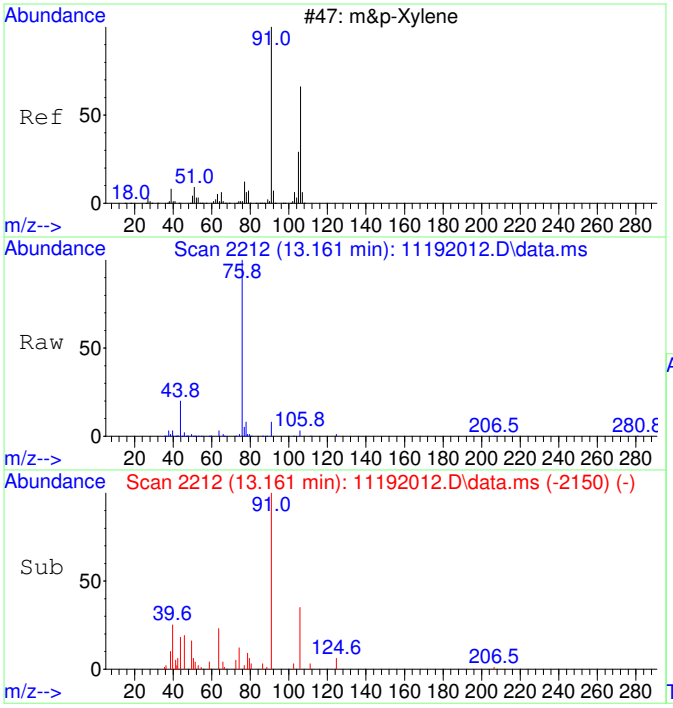


#42
Ethylbenzene SCAN
Concen: 68.65 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 8947

Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.1	83.1#
51	6.0	0.0	40.1

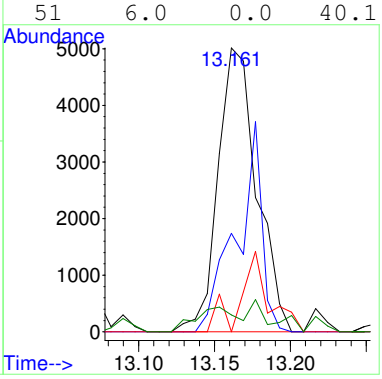


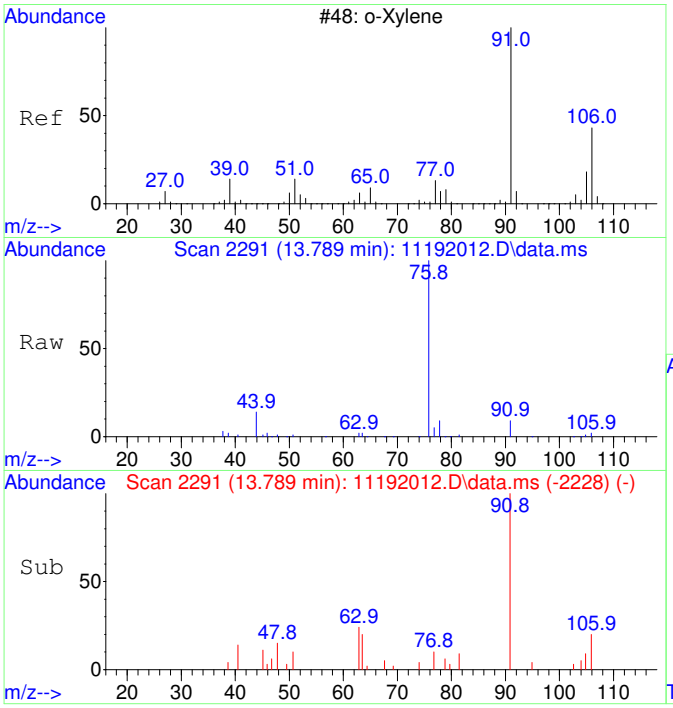


#43
m&p-Xylene SCAN
Concen: 68.65 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.008 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 8947

Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.1	83.1#
105	0.0	0.0	54.7
51	6.0	0.0	40.1

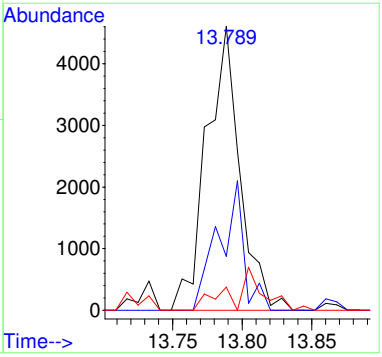


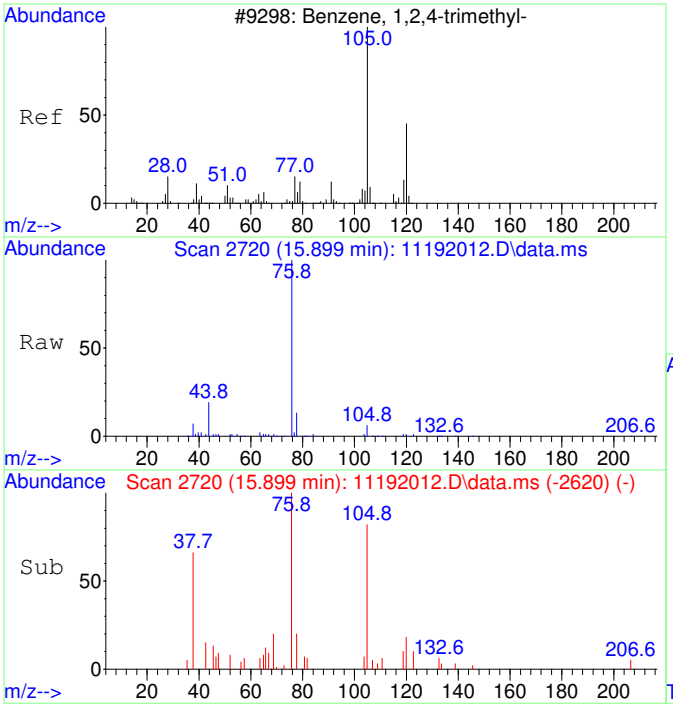


#44
o-Xylene SCAN
Concen: 110.53 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion: 91 Resp: 7711

Ion	Ratio	Lower	Upper
91	100		
106	34.4	18.0	78.0
105	14.0	0.0	56.6

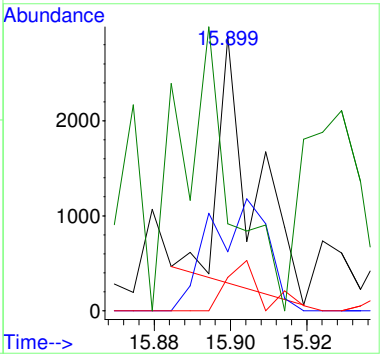




#47
1,2,4-Trimethylbenzene SCAN
Concen: 21.32 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.005 min
Lab File: 11192012.D
Acq: 19 Nov 2020 12:42

Tgt Ion:105 Resp: 1604

Ion	Ratio	Lower	Upper
105	100		
120	76.7	16.9	76.9
119	21.3	0.0	41.9
77	170.9	0.0	42.3#



SEQUENCE

S20K096

Sequence Date: 11/20/2020

Instrument: AG5975CV

Sequence Analyses:

VOCs, Passive Samplers

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B20K078	SEQUENCE #:	S20K096 11/20/20
BATCH #:	N / A	ANALYSIS:	VOA Passive Air. R21S04 AG5975C

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
DOCUMENTATION	ANALYST: Bench sheet(s) attached? REVIEWER: Bench sheet(s) reviewed?	☐	Y	Y	
	ANALYST: Sequence log(s) attached? REVIEWER: Sequence log(s) reviewed?	☐	Y	Y	
	ANALYST: Every run has a PDF in LIMS? REVIEWER: Every PDF reviewed?	☐	Y	Y	
INITIAL CALIBRATION	Date of Initial Calibration used: If applicable, note date of "Last Update" in Comments.	Mon Nov 16 10:20:51 2020			RT UPDATED ONLY
	Initial Calibration ID (LIMS number):	2008017			
	ICAL within QC criteria?	☑			OK
	SCV within QC criteria?	☑			OK
INSTRUMENT / QC CHECKS	Tune or degradation checks within QC criteria?	☐	Y	Y	PASSED
	CCV(s) within QC criteria?	☐	Y	Y	OK
	QLS(s) within QC criteria?	☐	Y	Y	OK
	CB(s) or storage blank(s) within QC criteria?	☑			
	Other instrument checks within QC criteria? Specify if applicable.	☑			
BATCH QCs	Method blanks < 1/2 QL?	☑			
	LCS(s) or SRM(s) within QC criteria?	☑			
	MSs/MSDs and/or DUPs within QC criteria?	☑			
	Other method-specific QCs within QC criteria? Specify if applicable.	☑			

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B20K078	SEQUENCE #:	S20K096 11/20/20
BATCH #:	N / A	ANALYSIS:	VOA Passive Air. R21S04 AG5975C

	CHECKLIST ITEM	N/A	ANALYST Y/N	REVIEWER Y/N	IDENTIFY OUTLIERS / COMMENTS
IS / SS	Internal standards within QC criteria?	☐	Y	Y	
	Surrogates within QC criteria?	☐	Y	Y	
SAMPLE DATA	Were samples prepared & analyzed within holding time?	☐	Y	Y	
	If samples need to be re-run, were RE(s) made in LIMS?	✔			
	Do any samples need to be re-digested or re-extracted?	✔			
	Were all data qualifiers appropriately applied?	☐	Y	Y	
	Are problems, anomalies, discrepancies documented in LIMS? Specify if applicable.	✔			
MANUAL INT	Were manual integrations performed and documented? Specify if applicable.	☐	Y	Y	

APPROVALS	ANALYST INITIALS & DATE:	LLH 11/23/20; TD 11/24/20
	REVIEWED BY:	ZIYAD RAJABI (Affiliate) Digitally signed by ZIYAD RAJABI (Affiliate) Date: 2020.11.24 12:40:54 -08'00' SIGN HERE

COMMENTS

Custom analyte list.

Processed using 11/19/20 tune and method. LLH 11/23/20 (See Discrepancy D20-004)

Injection Log

Directory: I:\DATA\ROOM317\AG5975C\DATA\2020\112020

Table of Contents

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	11202001.d	1.	S20K096-IBL1		20 Nov 2020 09:22
2	2	11202002.d	1.	S20K096-TUN1	BFB 2040028	20 Nov 2020 10:18
3	3	11202003.d	1.	S20K096-CCV1	2030070 5 mg/L	20 Nov 2020 10:28
4	4	11202004.d	1.	S20K096-CRL1	2030073 0.05 mg/L	20 Nov 2020 10:52
5	5	11202005.d	1.	2011017-23		20 Nov 2020 11:15
6	6	11202006.d	10.	2011017-19RE1	10X DL (180-20)	20 Nov 2020 11:39
7	7	11202007.d	10.	2011017-20RE1	10X DL (180-20)	20 Nov 2020 12:02
8	8	11202008.d	10.	2011017-21RE1	10X DL (180-20)	20 Nov 2020 12:26
9	9	11202009.d	10.	2011017-22RE1	10X DL (180-20)	20 Nov 2020 12:50
10	10	11202010.d	1.	2011021-01		20 Nov 2020 13:13
11	11	11202011.d	1.	2011021-02		20 Nov 2020 13:37
12	12	11202012.d	1.	2011021-03		20 Nov 2020 14:01
13	13	11202013.d	1.	2011021-04		20 Nov 2020 14:24
14	14	11202014.d	1.	2011021-05		20 Nov 2020 14:48
15	15	11202015.d	1.	2011021-06		20 Nov 2020 15:11
16	16	11202016.d	1.	2011021-07		20 Nov 2020 15:35
17	17	11202017.d	1.	2011021-08		20 Nov 2020 15:59
18	18	11202018.d	1.	2011021-09		20 Nov 2020 16:22
19	1	11202019.d	1.	IB		20 Nov 2020 16:46
20	1	11202020.d	1.	IB		20 Nov 2020 17:09
21	1	11202021.d	1.	IB		20 Nov 2020 17:33
22	1	11202022.d	1.	IB		20 Nov 2020 17:57
23	1	11202023.d	1.	IB		20 Nov 2020 18:20
24	1	99992005.d	1.	PREP		20 Nov 2020 08:59

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\Ravioli Data\2020\112020\11202002.D
Tune Time : 20 Nov 2020 10:18

Daily Calibration File : C:\msdchem\1\Ravioli Data\2020\112020\11202003.D

File	Sample	Surrogate Recovery %	Internal Standard Responses	
			501577	
11202003.D	S20K096-CC	96	501577	
11202004.D	S20K096-CR	1*	522678	
11202005.D	2011017-23	89	448955	
11202006.D	2011017-19RE11	86*	491213	10X DL
11202007.D	2011017-20RE11	85*	582943	10X DL
11202008.D	2011017-21RE1	85*	541820	10X DL
11202009.D	2011017-22RE1	85*	604408	10X DL
11202010.D	2011021-01	89	493757	
11202011.D	2011021-02	90	482974	
11202012.D	2011021-03	90	403570	
11202013.D	2011021-04	89	670018	
11202014.D	2011021-05	88	422227	
11202015.D	2011021-06	88	508719	
11202016.D	2011021-07	89	513828	
11202017.D	2011021-08	88	503830	
11202018.D	2011021-09	89	555589	

(fails) - fails 12hr time check * - fails criteria

Created: Mon Nov 23 12:34:25 2020 AG5975C

Analysis Sequence

S20K096

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2008017 Printed: 11/23/2020 3:09 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S20K096-IBL1	Instrument Blank	1	11/20/20 9:22		2030067	ZAR	11202001.D	
S20K096-TUN1	BFB	2	11/20/20 10:18	2040028		ZAR	11202002.D	
S20K096-CCV1	Calibration Check	3	11/20/20 10:28	2030070		ZAR	11202003.D	
S20K096-CRL1	Instrument RL Check	4	11/20/20 10:52	2030073		ZAR	11202004.D	
2011017-23 A	Classics-J35-SC-1ft-7d	5	11/20/20 11:15			ZAR	11202005.D	
2011017-19RE1 A	Classics-G31-SC-1ft-7d	6	11/20/20 11:39			ZAR	11202006.D	
2011017-20RE1 A	Classics-H33-SC-1ft-7d	7	11/20/20 12:02			ZAR	11202007.D	
2011017-21RE1 A	Classics-H33-SC-1ft-7d-Dup	8	11/20/20 12:26			ZAR	11202008.D	
2011017-22RE1 A	Classics-J34-SC-1ft-7d	9	11/20/20 12:50			ZAR	11202009.D	
2011021-01 A	RES170-FR2-BZ-10d	10	11/20/20 13:13			ZAR	11202010.D	
2011021-02 A	RES171-FR2-BZ-10d	11	11/20/20 13:37			ZAR	11202011.D	
2011021-03 A	RES172-FR2-BZ-10d	12	11/20/20 14:01			ZAR	11202012.D	
2011021-04 A	RES172-BR3-BZ-10d	13	11/20/20 14:24			ZAR	11202013.D	
2011021-05 A	RES172-OUT-3d	14	11/20/20 14:48			ZAR	11202014.D	
2011021-06 A	RES172-OUT-4d	15	11/20/20 15:11			ZAR	11202015.D	
2011021-07 A	RES173-DR2-BZ-4d	16	11/20/20 15:35			ZAR	11202016.D	
2011021-08 A	RES173-OUT-4d	17	11/20/20 15:59			ZAR	11202017.D	
2011021-09 A	RES174-FR2-BZ-7d	18	11/20/20 16:22			ZAR	11202018.D	

Sequence Comments

Analysis Sequence

S20K096

(Continued)

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2008017 Printed: 11/23/2020 3:09 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments

Reagents

Reagent #	Description

Rajabi, Ziyad

From: Bates, Barbara <Bates.Barbara@epa.gov>
Sent: Tuesday, November 24, 2020 12:19 PM
To: Wellbrock, Robert; O'Brien, Kathy; Rajabi, Ziyad; Berges, Jack; Wellbrock, Robert
Subject: RE: Interim Discrepancy form D20-004 available for your review

Approved. See below.

Barbara Bates
Chemist/QA Officer
USEPA Region 9 Laboratory
1337 S. 46th Street, Bldg. 201
Richmond, CA 94804
510-412-2325
FAX 510-412-2302
bates.barbara@epa.gov

From: Wellbrock, Robert <Robert.Wellbrock@icf.com>
Sent: Tuesday, November 24, 2020 12:09 PM
To: Bates, Barbara <Bates.Barbara@epa.gov>
Cc: O'Brien, Kathy <Kathy.O'Brien@icf.com>; Rajabi, Ziyad <ziyad.rajabi@icf.com>; Berges, Jack <jack.berges@icf.com>
Subject: Interim Discrepancy form D20-004 available for your review

Hi Barbara,

See below for the interim discrepancy form for the Radiello item we had previously discussed via email. Please review and return, and Ziyad will arrange for this email to be converted to a PDF file and posted to the sequence.

Thank you,

Rob

U.S. EPA Region 9 Laboratory Discrepancy #: D20-004

Case: R21S04

Project: MEW OU1 FY 2021 Vapor Intrusion Investigation

SDG: 20316C, 20322B

SOP: 307

Analysis: VOCs, Passive Sampler

Rev.: 2

Analyst: Date: 11/20/20

Describe Discrepancy:

1. An ESAT staff member was unexpectedly out of the laboratory for two days. ESAT shifted staff assignments to complete the assigned work. All samples were extracted by a certified analyst. One sequence (S20K096) was analyzed and the data was reduced by analysts who do not have current DOC.

2. Sequence S20K085 which was loaded by the analyst holding current DOC stopped halfway through the sequence on Thursday 11/19/20. When this was discovered on Friday morning, the sequence was copied and restarted as a new sequence (S20K096) using the same Chemstation method. FC43 Mass Axis check was not performed. Per SOP 307, the MS Mass Axis check must be performed daily prior to analyzing the BFB standard. The sequence QCs (BFB tune, CCV, QLS) all ran and passed, and the samples were subsequently analyzed. The sequence has dilutions for WO 2011017 and samples for 2011021.

Describe Corrective Actions:

1. Data analysis and reduction will be reviewed by the analyst holding current DOC.

2. Daily FC43 access calibration is an instrument manufacturer recommendation and not a method requirement. Historically, this instrument has been very stable and the mass axis adjustment either very minor or none required on a daily basis. The mass axis calibration was completed on Thursday. The method required BFB mass calibration check was successfully analyzed in sequence S20K096. No adverse impact is anticipated on the data quality.

The Discrepancy database was down; therefore, this email will serve as documentation of this Discrepancy. A copy of this email will be included in the effected sequence. The official discrepancy form will be created once the database is operational.

Approvals:

Supervisor (EPA or ESAT): Ziyad A Rajabi Date: 11/24/20

EPA Team Leader or ESAT QA/QC: Rob Wellbrock Date: 11/24/20

EPA Lab QAO: Barbara Bates Date: 11/24/20

Corrective Action Form Generated (Y/N): N Form #:

SEQUENCE DATA

S20K096

S20K096-TUN1

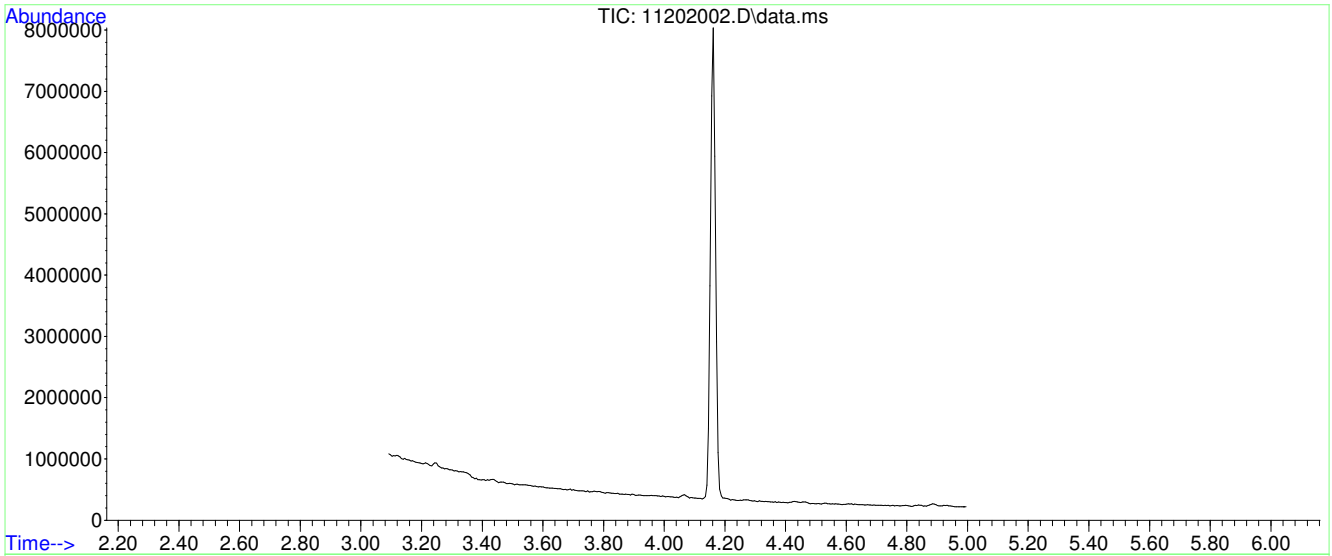
Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\112020\
Data File : 11202002.D
Acq On : 20 Nov 2020 10:18
Operator : ZAR
Sample : S20K096-TUN1
Misc : BFB 2040028
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

REVIEWED
By LLH at 2:24 pm, Nov 23, 2020

Integration File: Ravioli.P

Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Mon Nov 16 10:20:51 2020



AutoFind: Scans 204, 205, 206; Background Corrected with Scan 197

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	250731	PASS
75	95	30	60	49.5	649481	PASS
95	95	100	100	100.0	1311232	PASS
96	95	5	9	6.4	83781	PASS
173	174	0.00	2	0.8	10028	PASS
174	95	50	120	91.6	1201323	PASS
175	174	5	9	7.2	86141	PASS
176	174	95	101	97.4	1170496	PASS
177	176	5	9	6.4	75379	PASS

Average of 4.156 to 4.167 min.: 11202002.D\data.ms
S20K096-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	10794	47.00	13183	58.00	1457	70.00	10352
37.00	60771	48.00	7373	59.00	203	71.05	496
38.00	53821	49.00	54011	60.00	11954	72.00	6500
39.00	19538	50.00	250731	61.00	62379	73.00	56480
40.00	783	51.00	75989	62.00	63024	74.00	217730
40.80	101	52.00	3050	63.00	47613	75.00	649481
42.00	68	52.85	129	63.95	4171	75.95	41877
43.00	166	53.10	68	65.00	520	76.95	5865
44.00	3003	55.00	3758	67.00	3016	77.90	3069
45.00	10607	56.00	21292	68.00	127813	78.90	47011
46.00	852	57.00	36630	69.00	130068	79.90	12952

Average of 4.156 to 4.167 min.: 11202002.D\data.ms
S20K096-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.90	47128	94.00	155336	111.90	995	124.80	283
81.90	10756	95.00	1.31123e+006	112.95	1268	125.90	329
83.00	1197	95.95	83781	114.95	1182	126.85	412
84.10	164	97.00	2197	115.90	4770	127.90	4832
85.20	56	102.85	642	116.90	8445	128.90	2160
85.95	1316	103.90	6060	117.95	5110	129.90	4857
87.00	50461	104.90	2177	118.90	7888	130.90	2135
88.00	46717	105.90	5793	119.95	334	131.90	356
90.90	5247	106.90	1333	121.90	277	132.90	159
92.00	37107	109.90	975	122.95	348	133.95	386
93.00	54779	110.95	1319	123.95	836	134.95	2397

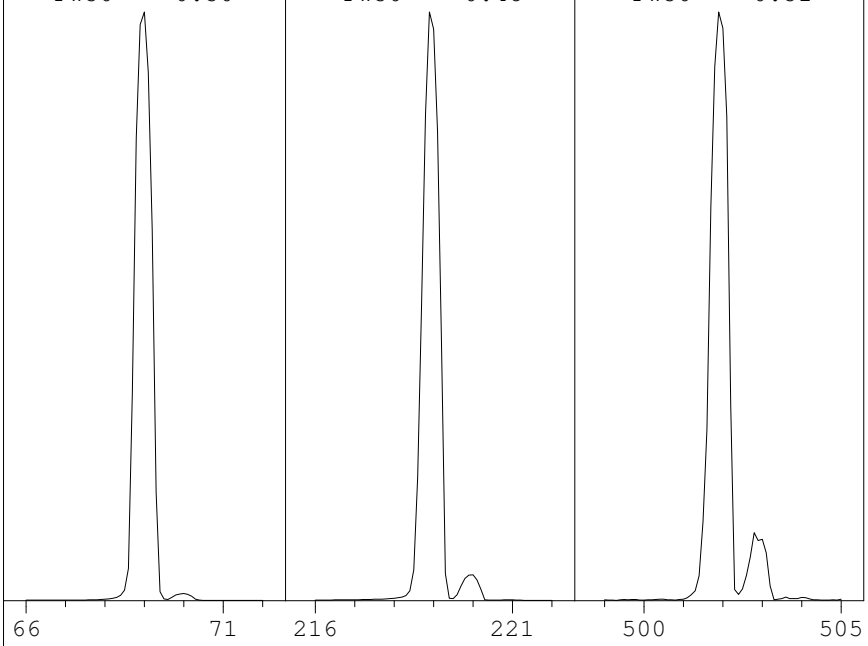
Average of 4.156 to 4.167 min.: 11202002.D\data.ms
S20K096-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.85	449	144.90	1115	155.95	309	169.20	244
136.85	2445	145.90	1762	156.90	2372	169.70	122
137.80	55	146.90	453	157.95	297	169.95	308
138.10	66	147.90	3445	158.85	1543	170.40	323
138.85	308	148.90	777	159.90	94	170.90	146
139.20	63	149.85	1268	160.95	1744	171.20	197
139.95	963	150.95	241	166.40	50	171.85	1488
140.90	13142	151.85	515	167.00	74	173.00	10028
141.90	1530	152.95	978	167.50	73	173.90	1.20132e+006
142.90	14428	153.85	773	168.20	85	174.90	86141
143.95	934	154.95	3321	168.70	90	175.90	1.1705e+006

Average of 4.156 to 4.167 min.: 11202002.D\data.ms
S20K096-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.90	75379	248.95	260				
177.90	1992	251.00	95				
191.00	229						
191.90	51						
192.80	192						
193.10	173						
193.80	51						
204.90	54						
206.95	71						
208.10	10						
223.00	73						

Mass	69.00	Mass	218.90	Mass	501.90
Ab	400638	Ab	268209	Ab	6872
Pw50	0.50	Pw50	0.48	Pw50	0.51

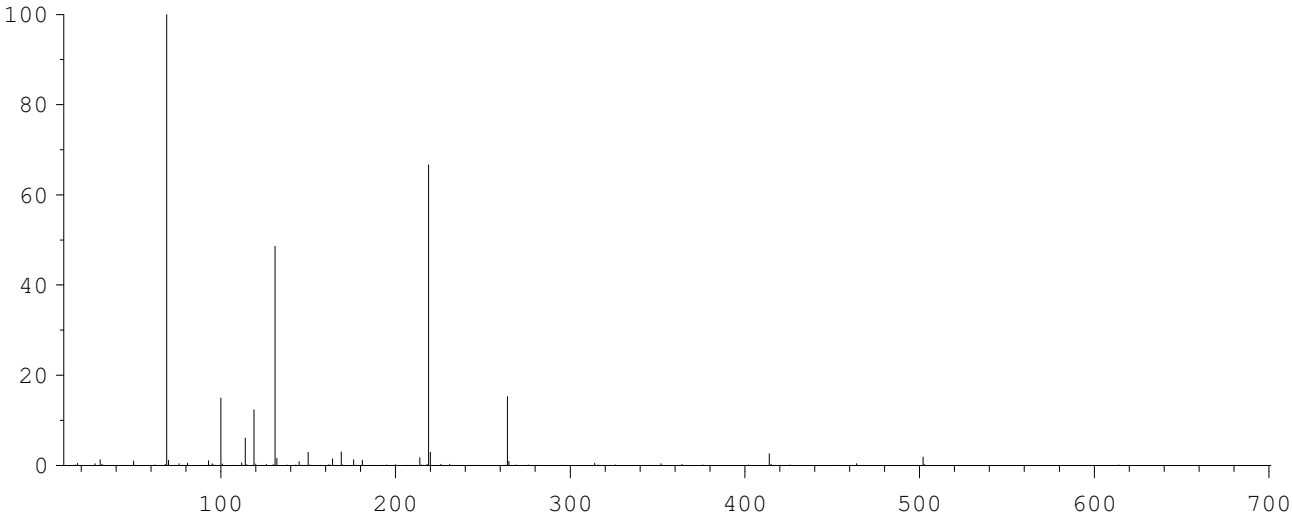


Ion Pol	Pos	MassGain	-1188
		MassOffs	-39
Emission	34.6	AmuGain	978
EIEnrgy	69.9	AmuOffs	127.94
Filament	1	Wid219	-0.003
		DC Pol	Pos
Repeller	29.79		
IonFcus	69.3	HEDEnab	On
EntLens	0.0	EMVolts	1329
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	230	Turbo Speed	100
MS Quad	150	HiVac	0.00e00

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10
106 peaks Base: 69.00 Abundance: 374656



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	374656	100.00	70.00	4055	1.08
219.00	249664	66.64	220.00	10927	4.38
502.00	6862	1.83	503.00	709	10.33

Air/Water Check: H20~0.44% N2~0.37% O2~0.21% CO2~0.03% N2/H2O~84.30%

Column(1) Flow: 1 Column(2): -1.79769e+308 ml/min. Interface Temp: 300

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 38079
Repeller Maximum 30 volts using ion 219; Gain Factor 0.38

MassGain Values(Samples): -1176(3) -1173(2) -1154(1) -1123(0) -1037(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	127.9	127.9	127.9	127.9	127.9	127.9	127.9
Entrance Lens Offset:	16.8	14.1	14.3	15.6	16.1	16.8	16.8
Target Abund(%):	1.0	100.0	45.0	55.0	2.5	2.0	
Actual Tune Abund(%):	1.0	100.0	48.6	66.6	2.6	1.8	

S20K096-CCV1

Evaluate Continuing Calibration Report

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202003.D
Acq On : 20 Nov 2020 10:28 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3
Multiplier: 1

REVIEWED
By LLH at 3:36 pm, Nov 23, 2020

Quant Time: Nov 23 14:17:12 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.03min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	2-Fluorotoluene	1.000	1.000	0.0	75	0.00
2	T	1,1-Dichloroethene	0.200	0.200	0.0	79	0.00
3	T	trans-1,2-Dichloroethene	0.231	0.218	5.6	75	0.01
4	T	1,1-Dichloroethane	0.287	0.276	3.8	77	0.01
5	T	cis-1,2-Dichloroethene	0.303	0.286	5.6	75	0.00
6	T	Chloroform	0.310	0.299	3.5	76	0.01
7	T	1,1,1-Trichloroethane	0.337	0.317	5.9	74	0.00
8	T	Carbon tetrachloride	0.317	0.299	5.7	74	0.00
9	T	Benzene	0.850	0.810	4.7	78	0.00
10	T	1,2-Dichloroethane	0.303	0.280	7.6	73	0.00
11	T	Trichloroethene	0.256	0.247	3.5	76	0.00
12	S	Toluene-d8	0.979	0.941	3.9	75	0.00
13	T	Toluene	1.248	1.137	8.9	75	0.01
14	T	1,1,2-Trichloroethane	0.272	0.256	5.9	75	0.01
15	T	Tetrachloroethene	0.361	0.346	4.2	75	0.00
16	T	Chlorobenzene	0.894	0.861	3.7	75	0.00
17	T	1,1,1,2-Tetrachloroethane	0.320	0.301	5.9	73	0.00
18	T	Ethylbenzene	1.519	1.402	7.7	73	0.00
19	T	m&p-Xylene	1.187	1.064	10.4	73	0.00
20	T	o-Xylene	1.268	1.154	9.0	72	0.00
21	T	1,1,2,2-Tetrachloroethane	0.562	0.526	6.4	73	0.00
22	T	1,3,5-Trimethylbenzene	1.350	1.239	8.2	71	0.00
23	T	1,2,4-Trimethylbenzene	1.402	1.252	10.7	71	0.00
24	T	Naphthalene	2.216	2.181	1.6	76	0.00
25		2-Fluorotoluene SCAN	0.487	0.484	0.6	74	0.01
26		1,1-Dichloroethene SCAN	0.104	0.107	-2.9	77	0.02
27		trans-1,2-Dichloroethene SC	0.128	0.123	3.9	71	0.01
28		1,1-Dichloroethane SCAN	0.148	0.155	-4.7	78	0.01
29		cis-1,2-Dichloroethene SCAN	0.159	0.161	-1.3	75	0.01
30		Chloroform SCAN	0.172	0.154	10.5	67	0.00
31		1,1,1-Trichloroethane SCAN	0.157	0.164	-4.5	78	0.01
32		Carbon tetrachloride SCAN	0.164	0.152	7.3	69	0.00
33		Benzene SCAN	0.432	0.450	-4.2	78	0.01
34		1,2-Dichloroethane SCAN	0.160	0.144	10.0	67	0.00
35		Trichloroethene SCAN	0.119	0.111	6.7	70	0.00
36		Toluene-d8 SCAN	0.477	0.477	0.0	75	0.01
37		Toluene SCAN	0.610	0.558	8.5	68	0.00
38		1,1,2-Trichloroethane SCAN	0.137	0.135	1.5	73	0.01
39		Tetrachloroethene SCAN	0.147	0.160	-8.8	81	0.00
40		Chlorobenzene SCAN	0.417	0.400	4.1	71	0.00
41		1,1,1,2-Tetrachloroethane S	0.154	0.135	12.3	65	0.00
42		Ethylbenzene SCAN	1.112	1.047	5.8	70	0.00
43		m&p-Xylene SCAN	1.112	1.047	5.8	70	0.00
44		o-Xylene SCAN	0.595	0.579	2.7	73	0.00
45		1,1,2,2-Tetrachloroethane S	0.290	0.289	0.3	74	0.00
46		1,3,5-Trimethylbenzene SCAN	0.627	0.574	8.5	68	0.00
47		1,2,4-Trimethylbenzene SCAN	0.642	0.602	6.2	70	0.00
48		Naphthalene SCAN	0.971	0.944	2.8	72	0.00

Table of Contents

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202003.D
Acq On : 20 Nov 2020 10:28 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3
Multiplier: 1

Quant Time: Nov 23 14:17:12 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.03min
Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

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

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202003.D
Acq On : 20 Nov 2020 10:28 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3
Multiplier: 1

Quant Time: Nov 23 14:17:12 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	501577	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	472088	4807.95	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 96.16%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	100291	5007.35	ug/L	86
3] trans-1,2-Dichloroethene	4.356	61	109450	4729.77	ug/L	99
4] 1,1-Dichloroethane	5.079	63	138401	4804.65	ug/L	99
5] cis-1,2-Dichloroethene	6.081	61	143568	4721.64	ug/L	99
6] Chloroform	6.652	83	149931	4817.51	ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	158865	4700.31	ug/L	100
8] Carbon tetrachloride	7.175	117	150035	4716.34	ug/L	100
9] Benzene	7.503	78	406387	4768.64	ug/L	99
10] 1,2-Dichloroethane	7.540	62	140266	4610.69	ug/L	99
11] Trichloroethene	8.569	130	123712	4821.42	ug/L	95
13] Toluene	10.582	91	570416	4556.69	ug/L	99
14] 1,1,2-Trichloroethane	11.232	97	128548	4712.66	ug/L	97
15] Tetrachloroethene	11.432	166	173760	4796.36	ug/L	100
16] Chlorobenzene	12.765	112	432076	4820.39	ug/L	94
17] 1,1,1,2-Tetrachloroethane	12.916	131	150862	4697.11	ug/L	100
18] Ethylbenzene	12.972	91	703418	4616.42	ug/L	99
19] m&p-Xylene	13.170	91	1067554	8964.34	ug/L	98
20] o-Xylene	13.782	91	578887	4549.88	ug/L	98
21] 1,1,2,2-Tetrachloroethane	14.880	83	263702	4676.57	ug/L	100
22] 1,3,5-Trimethylbenzene	15.350	105	621619	4590.22	ug/L	97
23] 1,2,4-Trimethylbenzene	15.906	105	627968	4464.34	ug/L	97
24] Naphthalene	17.906	128	1093741	4919.71	ug/L	100
25) 2-Fluorotoluene SCAN	10.979	109	242775	4965.28	ug/L	98
26) 1,1-Dichloroethene SCAN	3.096	61	53653	5167.02	ug/L #	27
27) trans-1,2-Dichloroethe...	4.361	61	61605	4794.47	ug/L	84
28) 1,1-Dichloroethane SCAN	5.078	63	77553	5215.24	ug/L #	55
29) cis-1,2-Dichloroethene...	6.086	61	80607	5059.36	ug/L	79
30) Chloroform SCAN	6.650	83	77313	4473.94	ug/L	91
31) 1,1,1-Trichloroethane ...	6.918	97	82501	5238.94	ug/L	89
32) Carbon tetrachloride SCAN	7.173	117	76412	4651.75	ug/L	86
33) Benzene SCAN	7.514	78	225809	5207.88	ug/L	97
34) 1,2-Dichloroethane SCAN	7.550	62	72476	4526.78	ug/L	92
35) Trichloroethene SCAN	8.568	130	55804	4683.36	ug/L	80
36) Toluene-d8 SCAN	10.486	98	239276	5003.96	ug/L	93
37) Toluene SCAN	10.580	91	280080	4573.69	ug/L	95
38) 1,1,2-Trichloroethane ...	11.242	97	67681	4923.99	ug/L	93
39) Tetrachloroethene SCAN	11.430	166	80082	5443.29	ug/L	97
40) Chlorobenzene SCAN	12.772	112	200740	4797.26	ug/L	91
41) 1,1,1,2-Tetrachloroeth...	12.915	131	67559	4362.63	ug/L	97
42) Ethylbenzene SCAN	13.169	91	525212	4707.74	ug/L	93
43) m&p-Xylene SCAN	13.169	91	525212	4707.74	ug/L	94
44) o-Xylene SCAN	13.781	91	290571	4865.78	ug/L	95
45) 1,1,2,2-Tetrachloroeth...	14.879	83	144953	4977.96	ug/L	96
46) 1,3,5-Trimethylbenzene...	15.348	105	287813	4573.11	ug/L	99
47) 1,2,4-Trimethylbenzene...	15.904	105	302060	4690.57	ug/L	95
48) Naphthalene SCAN	17.905	128	473264	4856.80	ug/L	98

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202003.D
Acq On : 20 Nov 2020 10:28 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3
Multiplier: 1

Quant Time: Nov 23 14:17:12 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

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

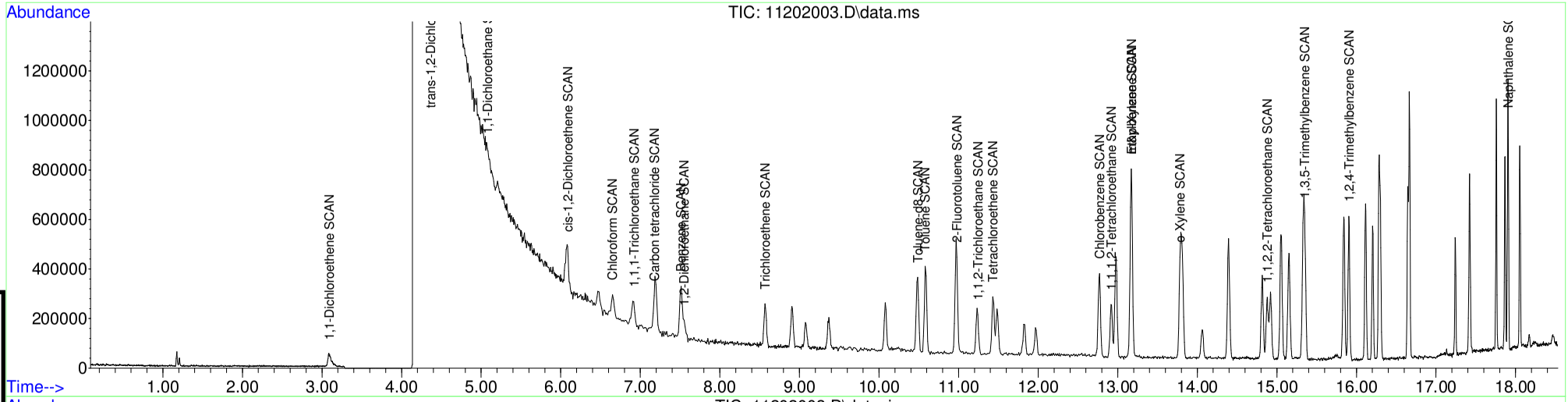
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202003.D
Acq On : 20 Nov 2020 10:28 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3
Multiplier: 1

Quant Time: Nov 23 14:17:12 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M



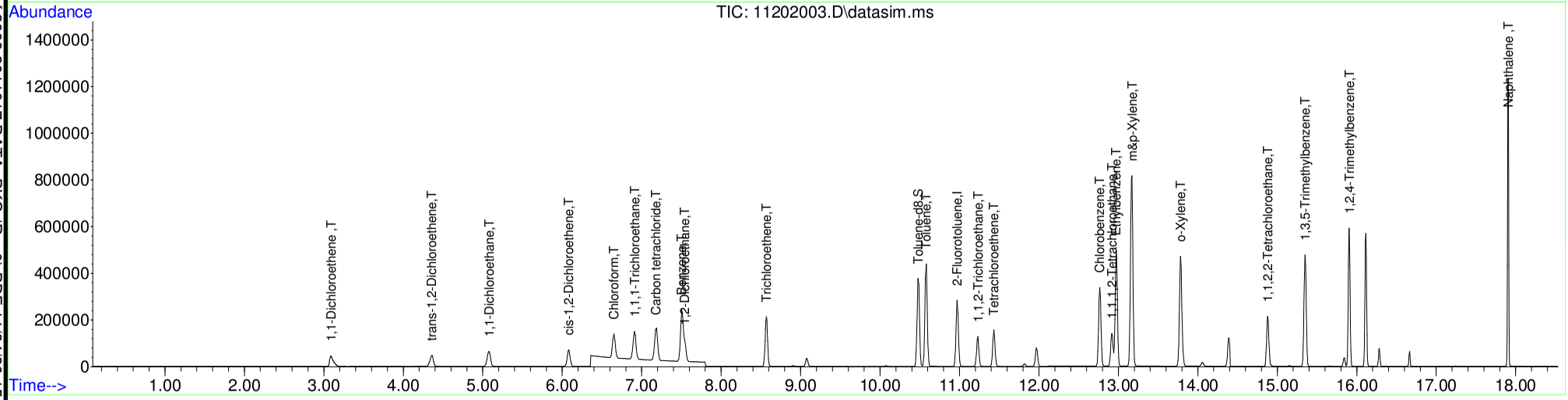


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Table of Contents

S20K096-CRL1

CRL REPORT

Instrument Name: AG5975C
Sample Name: S20K096-CRL1
Misc Info: 2030073 0.05 mg/L
Date Acquired: 11/20/2020 10:52
Operator: ZAR
File ID: 11202004.D

#	Name	Ret Time	Concentration	Amount	%R	QC Limit	STATUS
2)	1,1-Dichloroethene	3.09	57.0	50.0	114%	60 - 140	pass
3)	trans-1,2-Dichloroethene	4.36	62.7	50.0	125%	60 - 140	pass
4)	1,1-Dichloroethane	5.09	49.7	50.0	99%	60 - 140	pass
5)	cis-1,2-Dichloroethene	6.08	49.5	50.0	99%	60 - 140	pass
6)	Chloroform	6.65	59.0	50.0	118%	60 - 140	pass
7)	1,1,1-Trichloroethane	6.91	46.4	50.0	93%	60 - 140	pass
8)	Carbon tetrachloride	7.17	47.0	50.0	94%	60 - 140	pass
9)	Benzene	7.50	52.4	50.0	105%	60 - 140	pass
10)	1,2-Dichloroethane	7.54	47.8	50.0	96%	60 - 140	pass
11)	Trichloroethene	8.57	50.2	50.0	100%	60 - 140	pass
12)	Toluene-d8	10.48	49.5	50.0	99%	60 - 140	pass
13)	Toluene	10.58	50.8	50.0	102%	60 - 140	pass
14)	1,1,2-Trichloroethane	11.23	48.2	50.0	96%	60 - 140	pass
15)	Tetrachloroethene	11.43	49.5	50.0	99%	60 - 140	pass
16)	Chlorobenzene	12.77	51.5	50.0	103%	60 - 140	pass
17)	1,1,1,2-Tetrachloroethane	12.92	49.4	50.0	99%	60 - 140	pass
18)	Ethylbenzene	12.97	51.5	50.0	103%	60 - 140	pass
19)	m&p-Xylene	13.16	102.4	100.0	102%	60 - 140	pass
20)	o-Xylene	13.78	50.0	50.0	100%	60 - 140	pass
21)	1,1,2,2-Tetrachloroethane	14.88	50.8	50.0	102%	60 - 140	pass
22)	1,3,5-Trimethylbenzene	15.35	51.9	50.0	104%	60 - 140	pass
23)	1,2,4-Trimethylbenzene	15.90	53.0	50.0	106%	60 - 140	pass
24)	Naphthalene	17.91	51.6	50.0	103%	60 - 140	pass
25)	2-Fluorotoluene SCAN	10.97	4965.9	5000.0	99%	60 - 140	pass

REVIEWED
By LLH at 2:29 pm, Nov 23, 2020

Quantitation Report (QT Reviewed)

Table of Contents

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202004.D
Acq On : 20 Nov 2020 10:52 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4
Multiplier: 1

M.I. Performed By:
LLH at 2:29 pm, Nov 23, 2020

M.I. Approved By:
ZR at 4:16 pm, Nov 23, 2020

Quant Time: Nov 23 14:28:27 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	522678	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.477	98	5065	49.50	ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	0.99%#			
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.093	61	1189m	56.97	ug/L		
3] trans-1,2-Dichloroethene	4.363	61	1512	62.70	ug/L		74
4] 1,1-Dichloroethane	5.086	63	1492	49.70	ug/L		66
5] cis-1,2-Dichloroethene	6.081	61	1569	49.52	ug/L		97
6] Chloroform	6.652	83	1912	58.96	ug/L		99
7] 1,1,1-Trichloroethane	6.907	97	1635	46.42	ug/L		98
8] Carbon tetrachloride	7.175	117	1557	46.97	ug/L		97
9] Benzene	7.503	78	4654	52.41	ug/L	#	7
10] 1,2-Dichloroethane	7.540	62	1515	47.79	ug/L	#	14
11] Trichloroethene	8.569	130	1342	50.19	ug/L		91
13] Toluene	10.582	91	6621	50.76	ug/L		98
14] 1,1,2-Trichloroethane	11.232	97	1369	48.16	ug/L		88
15] Tetrachloroethene	11.432	166	1869	49.51	ug/L		98
16] Chlorobenzene	12.765	112	4814	51.54	ug/L		64
17] 1,1,1,2-Tetrachloroethane	12.916	131	1653	49.39	ug/L		96
18] Ethylbenzene	12.972	91	8181	51.52	ug/L		96
19] m&p-Xylene	13.162	91	12711	102.43	ug/L		95
20] o-Xylene	13.782	91	6630	50.01	ug/L		95
21] 1,1,2,2-Tetrachloroethane	14.880	83	2987	50.83	ug/L		100
22] 1,3,5-Trimethylbenzene	15.350	105	7322	51.89	ug/L		96
23] 1,2,4-Trimethylbenzene	15.901	105	7762	52.95	ug/L		94
24] Naphthalene	17.906	128	11950	51.58	ug/L		98
25) 2-Fluorotoluene SCAN	10.969	109	253018	4965.86	ug/L		97
26) 1,1-Dichloroethene SCAN	3.107	61	477	44.08	ug/L	#	25
27) trans-1,2-Dichloroethe...	4.348	61	377	28.16	ug/L	#	17
29) cis-1,2-Dichloroethene...	6.086	61	1007	60.65	ug/L	#	60
30) Chloroform SCAN	6.662	83	1324	73.52	ug/L	#	70
31) 1,1,1-Trichloroethane ...	6.942	97	399	24.31	ug/L	#	19
32) Carbon tetrachloride SCAN	7.186	117	499	29.15	ug/L	#	69
33) Benzene SCAN	7.599	78	1498	33.15	ug/L		99
34) 1,2-Dichloroethane SCAN	7.538	62	497	29.79	ug/L	#	1
35) Trichloroethene SCAN	8.552	130	331	26.66	ug/L	#	1
36) Toluene-d8 SCAN	10.486	98	3445	69.14	ug/L		84
37) Toluene SCAN	10.591	91	3760	58.92	ug/L		87
38) 1,1,2-Trichloroethane ...	11.242	97	553	38.61	ug/L	#	56
39) Tetrachloroethene SCAN	11.431	166	1240	80.88	ug/L	#	20
40) Chlorobenzene SCAN	12.772	112	1907	43.73	ug/L	#	48
42) Ethylbenzene SCAN	13.177	91	8258	71.03	ug/L		70
43) m&p-Xylene SCAN	13.177	91	8258	71.03	ug/L		77
44) o-Xylene SCAN	13.797	91	4491	72.17	ug/L		86
45) 1,1,2,2-Tetrachloroeth...	14.864	83	653	21.52	ug/L	#	54
47) 1,2,4-Trimethylbenzene...	15.899	105	4390	65.42	ug/L	#	67
48) Naphthalene SCAN	17.909	128	5588	55.03	ug/L		79

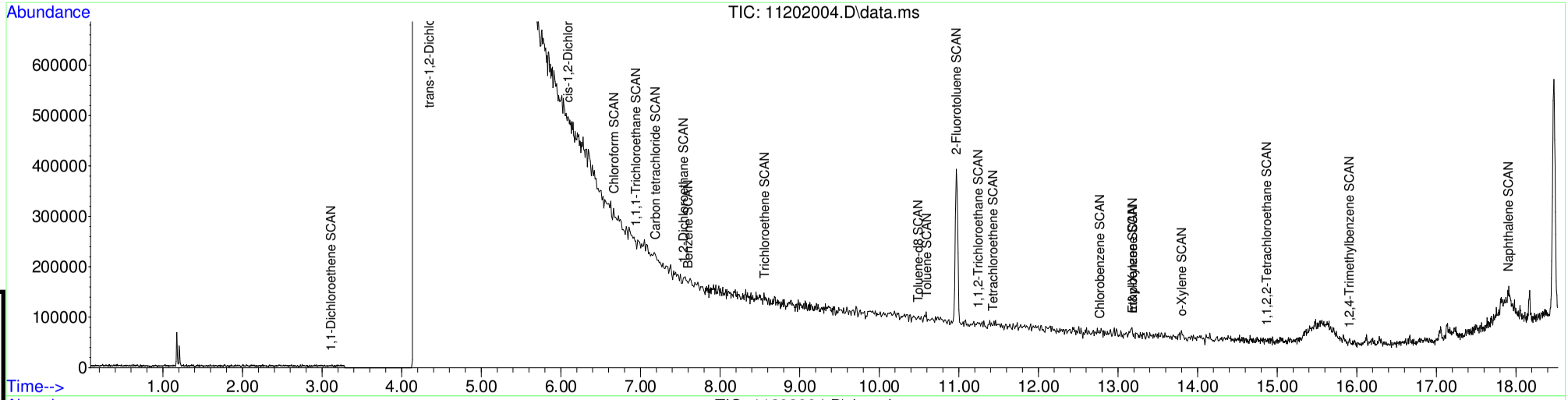
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202004.D
Acq On : 20 Nov 2020 10:52 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4
Multiplier: 1

Quant Time: Nov 23 14:28:27 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M



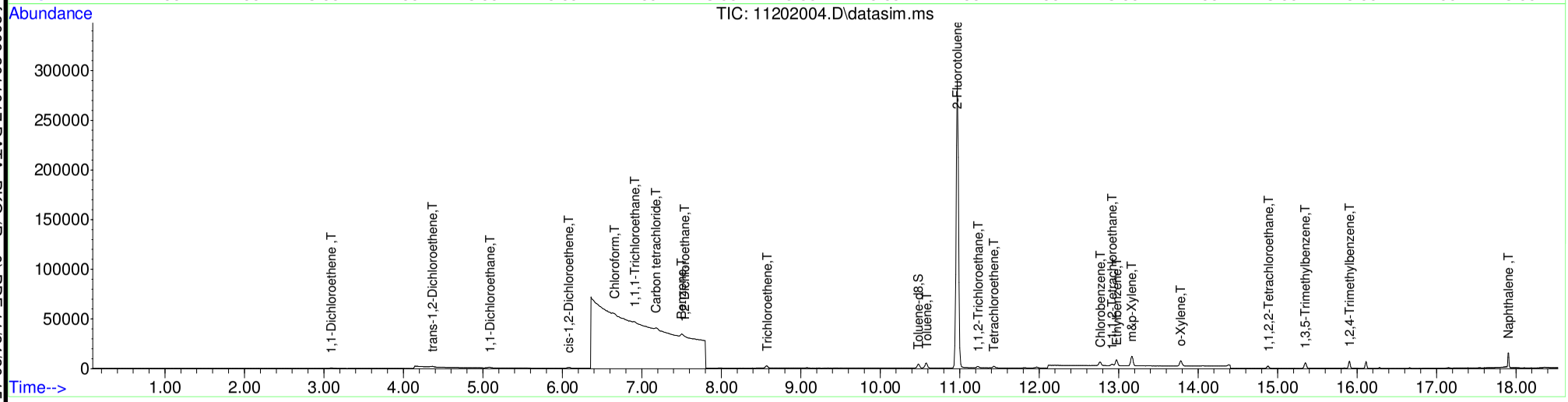


Table of Contents

Before Manual Integration

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202004.D
Acq On : 20 Nov 2020 10:52 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4
Multiplier: 1

Quant Time: Nov 23 14:28:05 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	522678	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	5065	49.50	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.093	61	1618	77.52	ug/L #	45
3] trans-1,2-Dichloroethene	4.363	61	1512	62.70	ug/L	74
4] 1,1-Dichloroethane	5.086	63	1492	49.70	ug/L	66
5] cis-1,2-Dichloroethene	6.081	61	1569	49.52	ug/L	97
6] Chloroform	6.652	83	1912	58.96	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1635	46.42	ug/L	98
8] Carbon tetrachloride	7.175	117	1557	46.97	ug/L	97
9] Benzene	7.503	78	4654	52.41	ug/L #	7
10] 1,2-Dichloroethane	7.540	62	1515	47.79	ug/L #	14
11] Trichloroethene	8.569	130	1342	50.19	ug/L	91
13] Toluene	10.582	91	6621	50.76	ug/L	98
14] 1,1,2-Trichloroethane	11.232	97	1369	48.16	ug/L	88
15] Tetrachloroethene	11.432	166	1869	49.51	ug/L	98
16] Chlorobenzene	12.765	112	4814	51.54	ug/L	64
17] 1,1,1,2-Tetrachloroethane	12.916	131	1653	49.39	ug/L	96
18] Ethylbenzene	12.972	91	8181	51.52	ug/L	96
19] m&p-Xylene	13.162	91	12711	102.43	ug/L	95
20] o-Xylene	13.782	91	6630	50.01	ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.880	83	2987	50.83	ug/L	100
22] 1,3,5-Trimethylbenzene	15.350	105	7322	51.89	ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	7762	52.95	ug/L	94
24] Naphthalene	17.906	128	11950	51.58	ug/L	98
25) 2-Fluorotoluene SCAN	10.969	109	253018	4965.86	ug/L	97
26) 1,1-Dichloroethene SCAN	3.107	61	477	44.08	ug/L #	25
27) trans-1,2-Dichloroethe...	4.348	61	377	28.16	ug/L #	17
29) cis-1,2-Dichloroethene...	6.086	61	1007	60.65	ug/L #	60
30) Chloroform SCAN	6.662	83	1324	73.52	ug/L #	70
31) 1,1,1-Trichloroethane ...	6.942	97	399	24.31	ug/L #	19
32) Carbon tetrachloride SCAN	7.186	117	499	29.15	ug/L #	69
33) Benzene SCAN	7.599	78	1498	33.15	ug/L	99
34) 1,2-Dichloroethane SCAN	7.538	62	497	29.79	ug/L #	1
35) Trichloroethene SCAN	8.552	130	331	26.66	ug/L #	1
36) Toluene-d8 SCAN	10.486	98	3445	69.14	ug/L	84
37) Toluene SCAN	10.591	91	3760	58.92	ug/L	87
38) 1,1,2-Trichloroethane ...	11.242	97	553	38.61	ug/L #	56
39) Tetrachloroethene SCAN	11.431	166	1240	80.88	ug/L #	20
40) Chlorobenzene SCAN	12.772	112	1907	43.73	ug/L #	48
42) Ethylbenzene SCAN	13.177	91	8258	71.03	ug/L	70
43) m&p-Xylene SCAN	13.177	91	8258	71.03	ug/L	77
44) o-Xylene SCAN	13.797	91	4491	72.17	ug/L	86
45) 1,1,2,2-Tetrachloroeth...	14.864	83	653	21.52	ug/L #	54
47) 1,2,4-Trimethylbenzene...	15.899	105	4390	65.42	ug/L #	67
48) Naphthalene SCAN	17.909	128	5588	55.03	ug/L	79

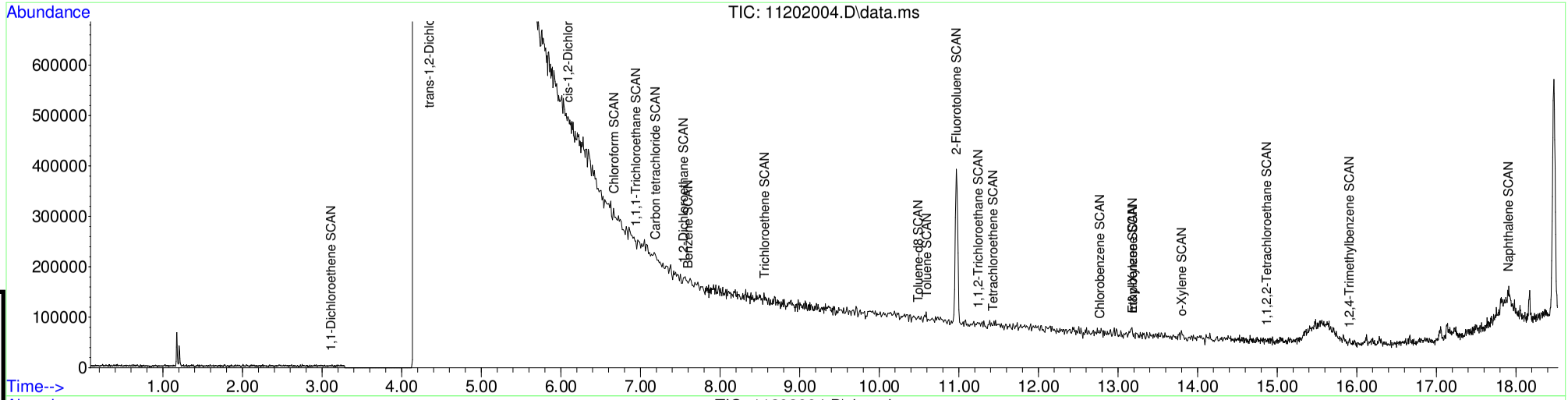
(#) = qualifier out of range (m) = manual integration (+) = signals summed

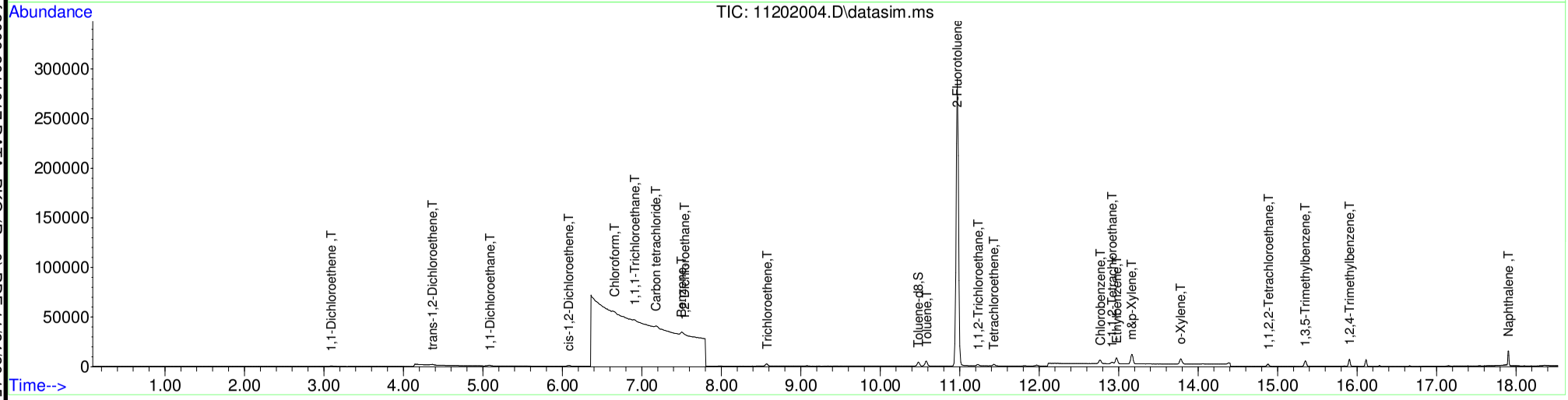
Quantitation Report (Not Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202004.D
Acq On : 20 Nov 2020 10:52 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4
Multiplier: 1

Quant Time: Nov 23 14:28:05 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M





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Quantitation Report (Qedit)

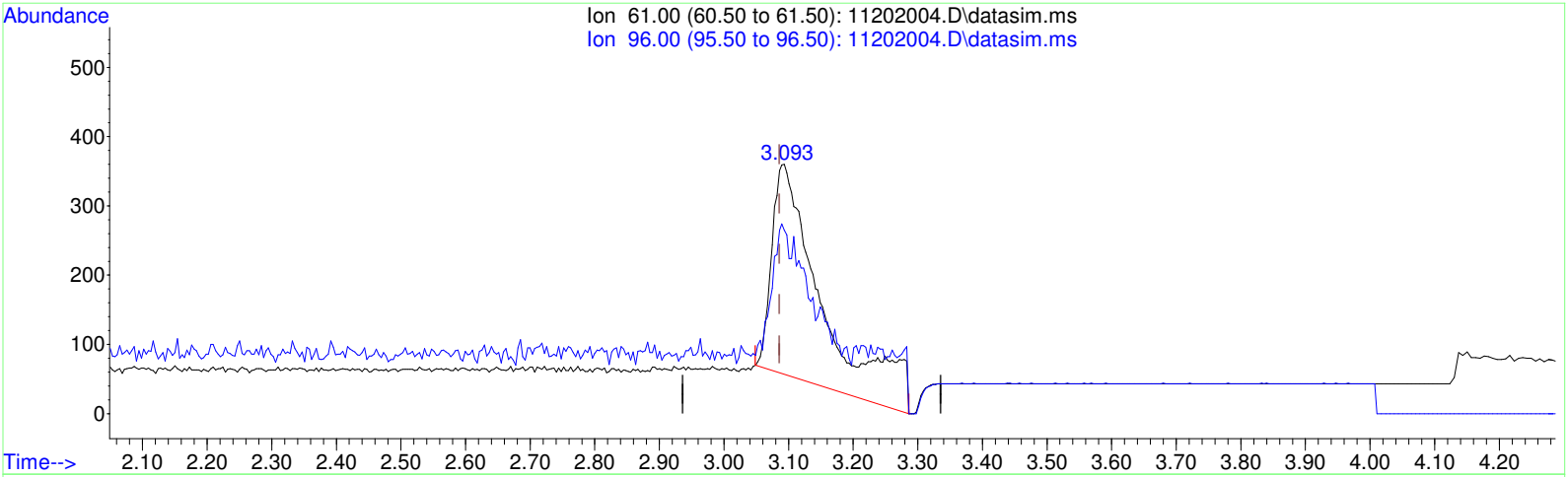
Table of Contents

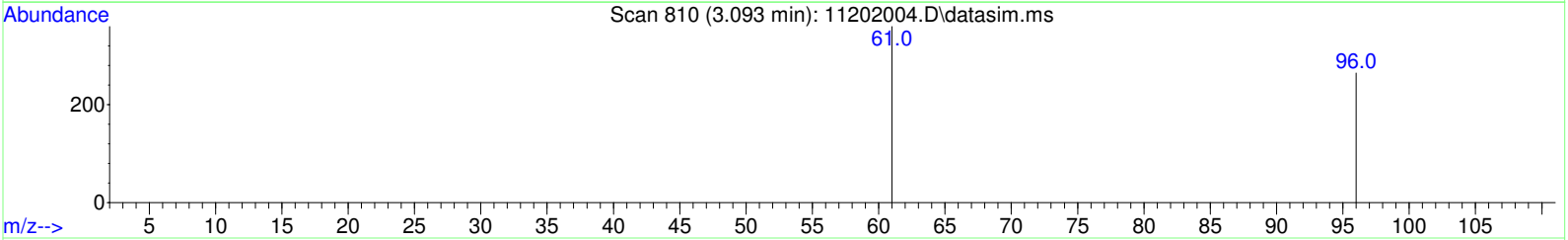
Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202004.D
Acq On : 20 Nov 2020 10:52 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4
Multiplier: 1

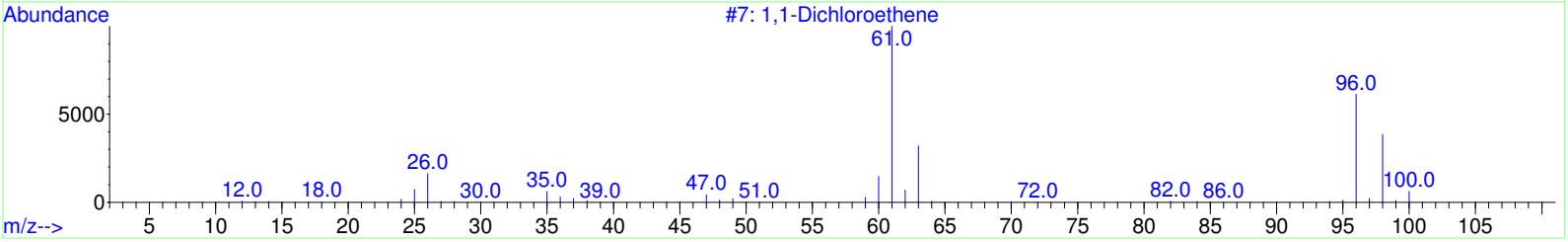
Before MI: IMPROPER BASELINE

Quant Time: Nov 23 14:28:05 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M







TIC: 11202004.D\data.ms

(2) 1,1-Dichloroethene (T)

3.093min (+ 0.007) 77.52 ug/L

response 1618

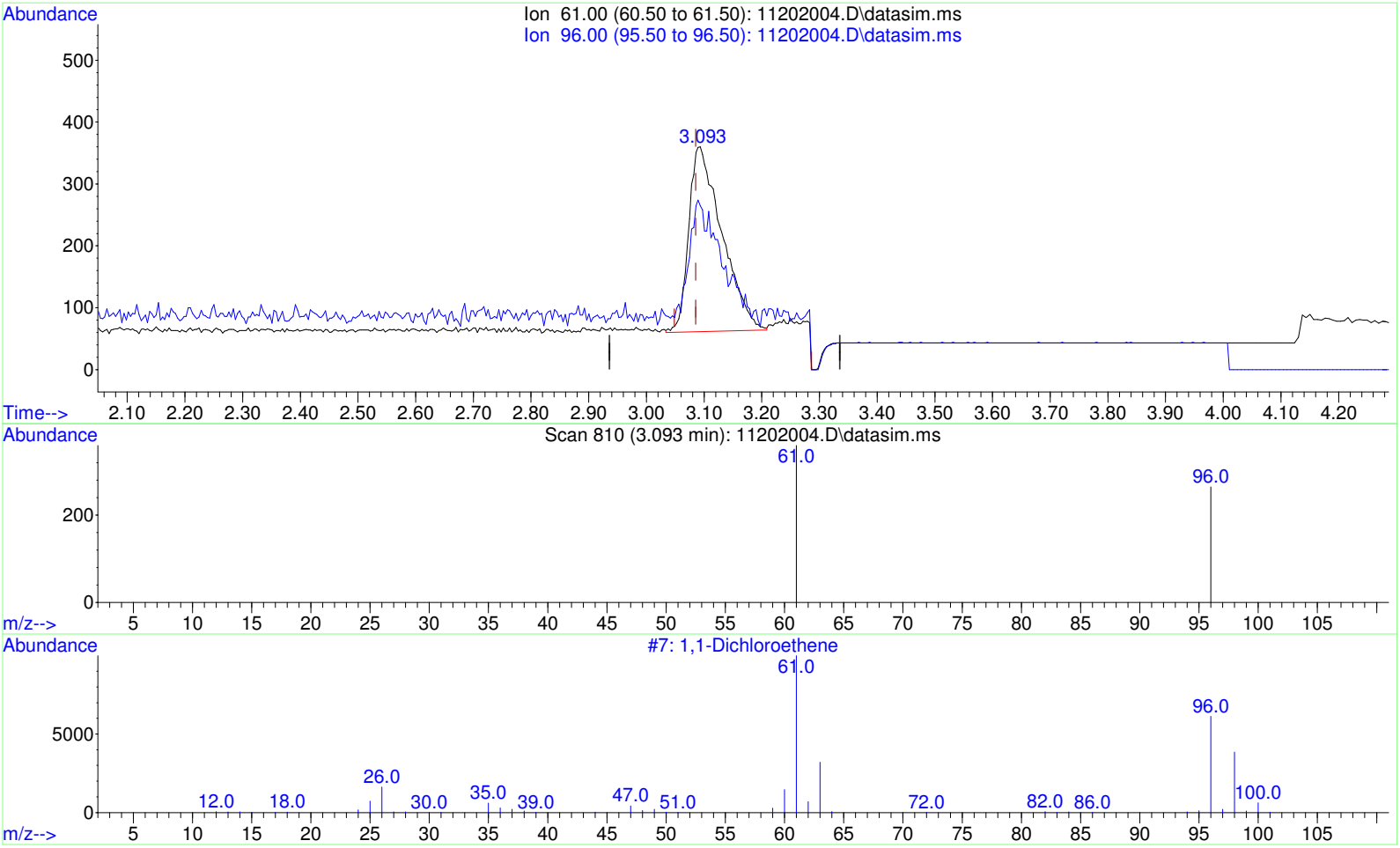
Ion	Exp%	Act%
61.00	100.00	100.00
96.00	67.20	23.36#
0.00	0.00	0.00
0.00	0.00	0.00

Table of Contents

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202004.D
Acq On : 20 Nov 2020 10:52 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4
Multiplier: 1

Quant Time: Nov 23 14:28:05 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M



TIC: 11202004.D\data.ms

(2) 1,1-Dichloroethene (T)

3.093min (+ 0.007) 56.97 ug/L m

response 1189

Ion	Exp%	Act%
61.00	100.00	100.00
96.00	67.20	31.79#
0.00	0.00	0.00
0.00	0.00	0.00

2011017-23

Quantitation Report (QT Reviewed)

Table of Contents

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202005.D
Acq On : 20 Nov 2020 11:15 am
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-23
Misc :
ALS Vial : 5
Multiplier: 1

M.I. Approved By:
ZR at 4:18 pm, Nov 23, 2020

REPORT

Quant Time: Nov 23 14:33:05 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	448955	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	389139	4427.68	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.55%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	1536m	85.68	ug/L	
3] trans-1,2-Dichloroethene	4.336	61	2683	129.53	ug/L	89
4] 1,1-Dichloroethane	5.059	63	2188	84.86	ug/L	78
5] cis-1,2-Dichloroethene	6.074	61	38931	1430.43	ug/L	99
6] Chloroform	6.639	83	76940	2761.97	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1997	66.01	ug/L	100
8] Carbon tetrachloride	7.175	117	3455	121.34	ug/L	98
9] Benzene	7.503	78	15840	207.66	ug/L	68
10] 1,2-Dichloroethane	7.540	62	781	28.68	ug/L #	1
11] Trichloroethene	8.569	130	166117	7232.89	ug/L	94
13] Toluene	10.582	91	27946	249.41	ug/L	99
15] Tetrachloroethene	11.432	166	9503	293.06	ug/L	99
18] Ethylbenzene	12.972	91	8498	62.31	ug/L	95
19] m&p-Xylene	13.162	91	21179	198.69	ug/L	95
20] o-Xylene	13.782	91	7720	67.79	ug/L	97
23] 1,2,4-Trimethylbenzene	15.904	105	6743	53.56	ug/L	90
25) 2-Fluorotoluene SCAN	10.969	109	217022	4958.82	ug/L	98
26) 1,1-Dichloroethene SCAN	3.085	61	259	27.87	ug/L #	57
27) trans-1,2-Dichloroethe...	4.348	61	1047	91.03	ug/L	85
28) 1,1-Dichloroethane SCAN	5.078	63	1188	89.25	ug/L #	56
29) cis-1,2-Dichloroethene...	6.066	61	22214	1557.70	ug/L	89
30) Chloroform SCAN	6.650	83	40971	2648.80	ug/L	92
31) 1,1,1-Trichloroethane ...	6.894	97	1218	86.41	ug/L #	19
32) Carbon tetrachloride SCAN	7.173	117	1384	94.13	ug/L #	48
33) Benzene SCAN	7.502	78	15242	392.73	ug/L	95
35) Trichloroethene SCAN	8.574	130	78888	7396.70	ug/L	87
36) Toluene-d8 SCAN	10.486	98	206750	4830.53	ug/L	92
37) Toluene SCAN	10.580	91	14826	270.49	ug/L	95
39) Tetrachloroethene SCAN	11.430	166	4560	346.28	ug/L	80
42) Ethylbenzene SCAN	13.169	91	12648	126.66	ug/L	96
43) m&p-Xylene SCAN	13.169	91	12648	126.66	ug/L #	51
44) o-Xylene SCAN	13.789	91	4196	78.50	ug/L	80
46) 1,3,5-Trimethylbenzene...	15.347	105	1421	25.22	ug/L #	41
47) 1,2,4-Trimethylbenzene...	15.908	105	2187	37.94	ug/L	83

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

M.I. Performed By:
LLH at 2:33 pm, Nov 23, 2020

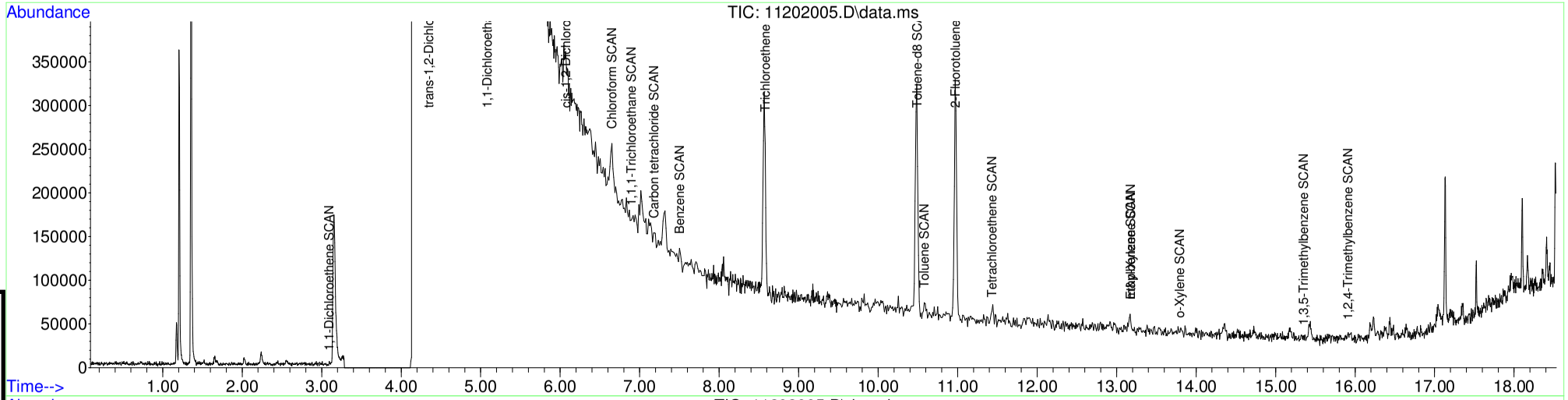
REVIEWED
By LLH at 2:33 pm, Nov 23, 2020

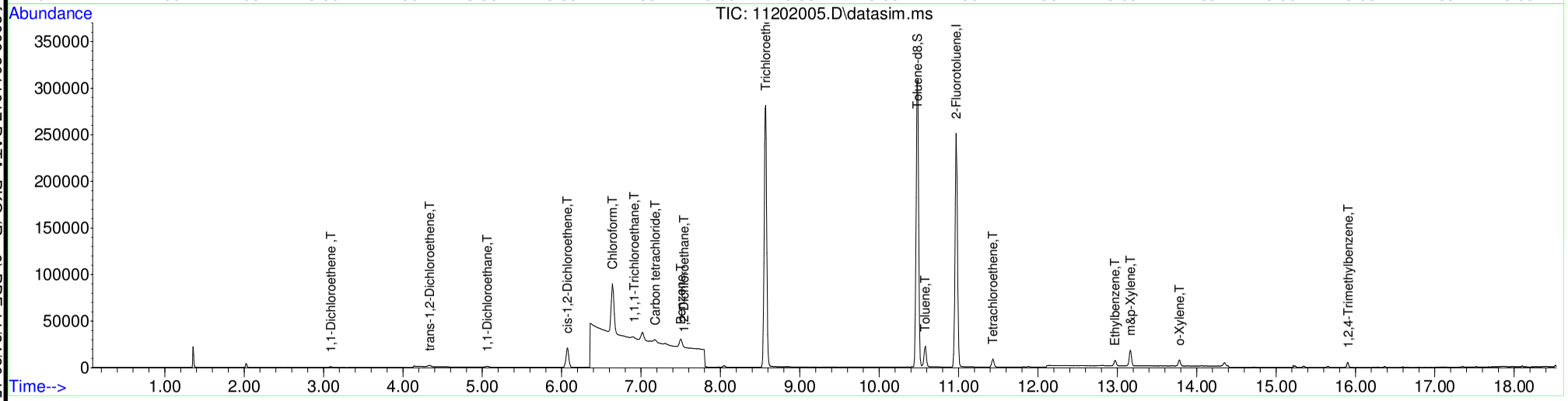
Quantitation Report (QT Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202005.D
Acq On : 20 Nov 2020 11:15 am
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-23
Misc :
ALS Vial : 5
Multiplier: 1

Quant Time: Nov 23 14:33:05 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M





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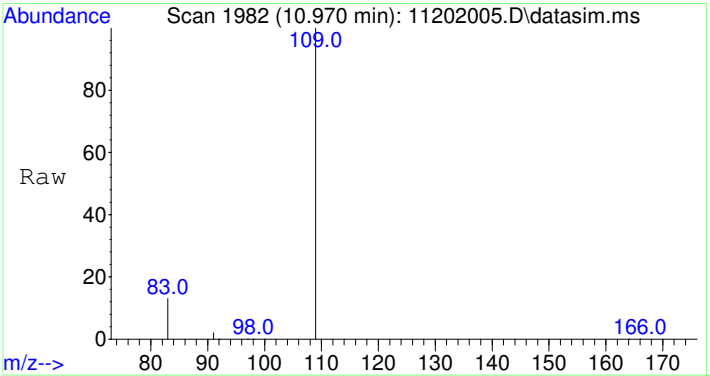
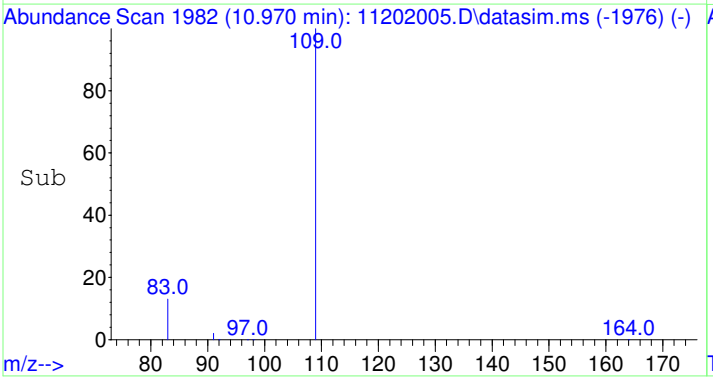
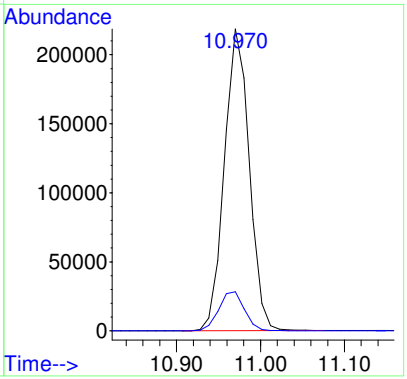


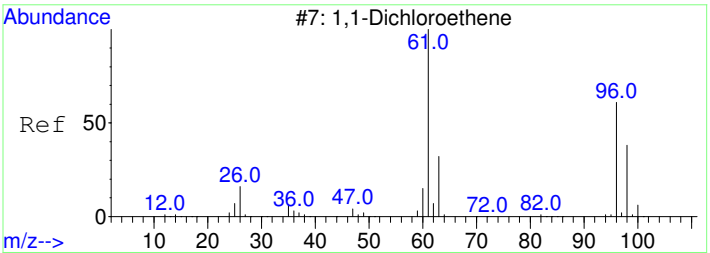
#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:109 Resp: 448955

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3



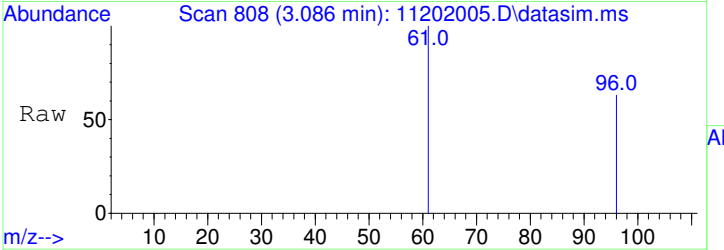


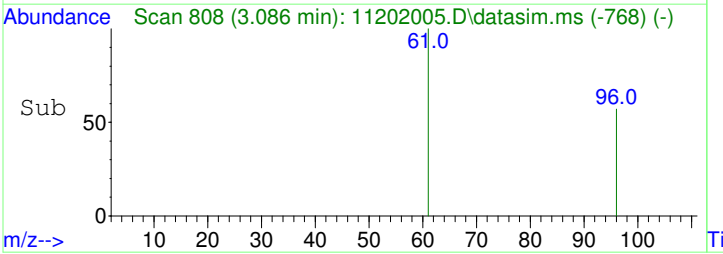


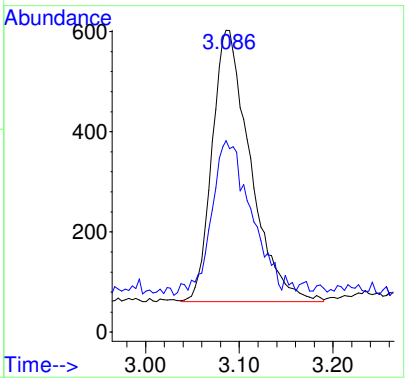
#2
1,1-Dichloroethene
Concen: 85.68 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. 0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

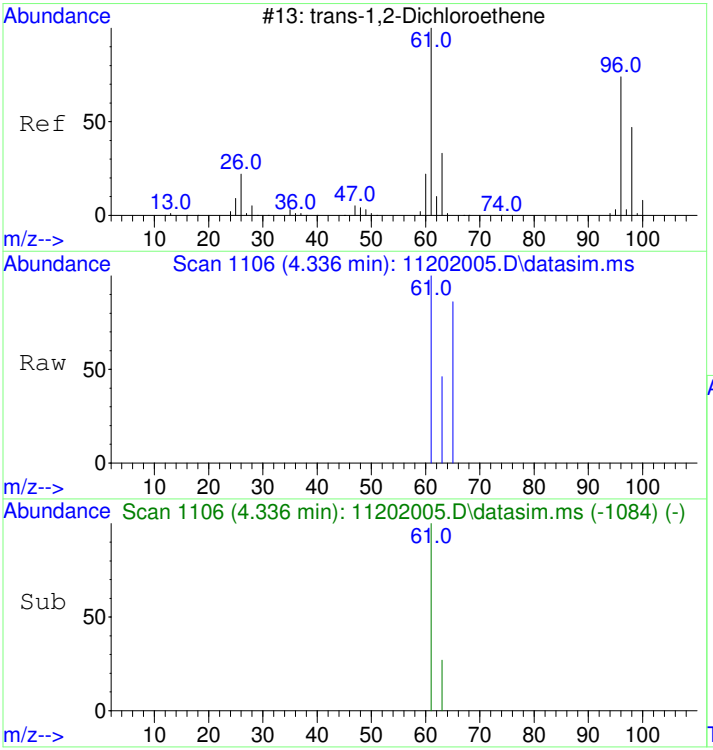
Tgt Ion: 61 Resp: 1536

Ion	Ratio	Lower	Upper
61	100		
96	53.9	37.2	97.2





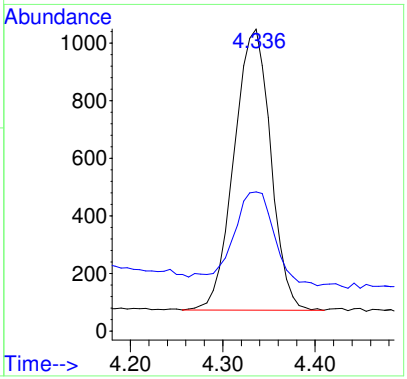


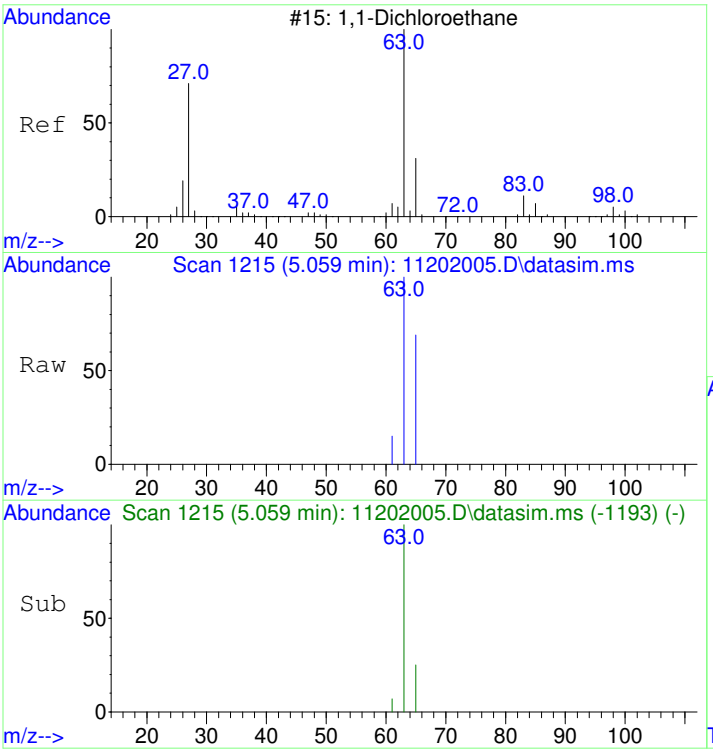


#3
trans-1,2-Dichloroethene
Concen: 129.53 ug/L
RT: 4.336 min Scan# 1106
Delta R.T. -0.007 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 61 Resp: 2683

Ion	Ratio	Lower	Upper
61	100		
63	38.8	2.4	62.4

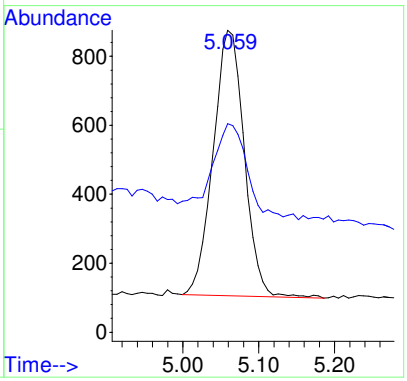


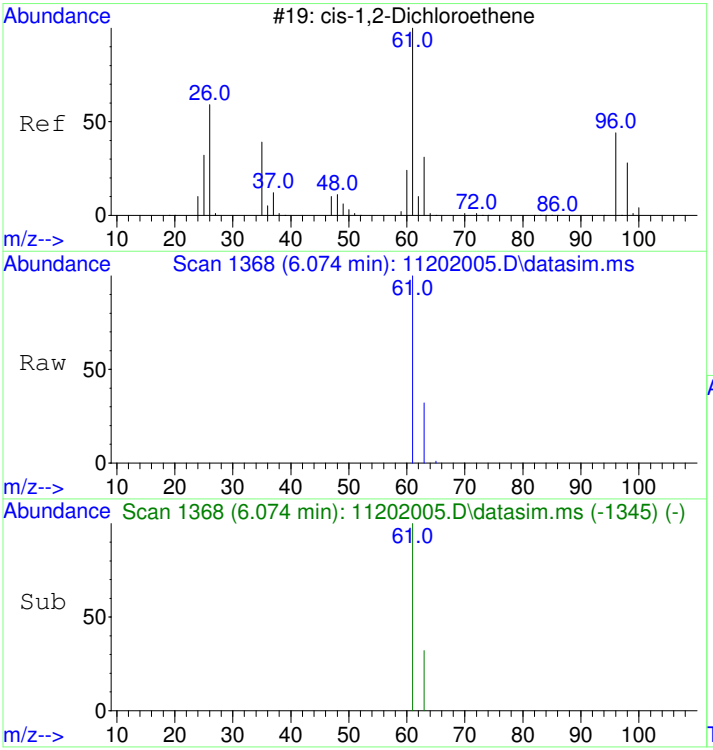


#4
1,1-Dichloroethane
Concen: 84.86 ug/L
RT: 5.059 min Scan# 1215
Delta R.T. -0.007 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 63 Resp: 2188

Ion	Ratio	Lower	Upper
63	100		
65	44.0	1.8	61.8

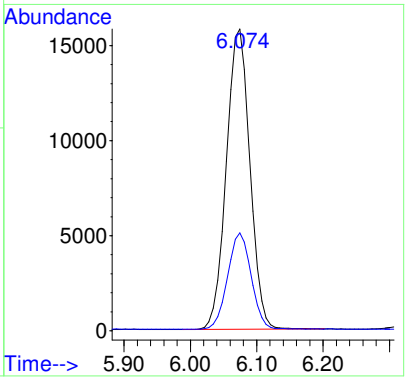


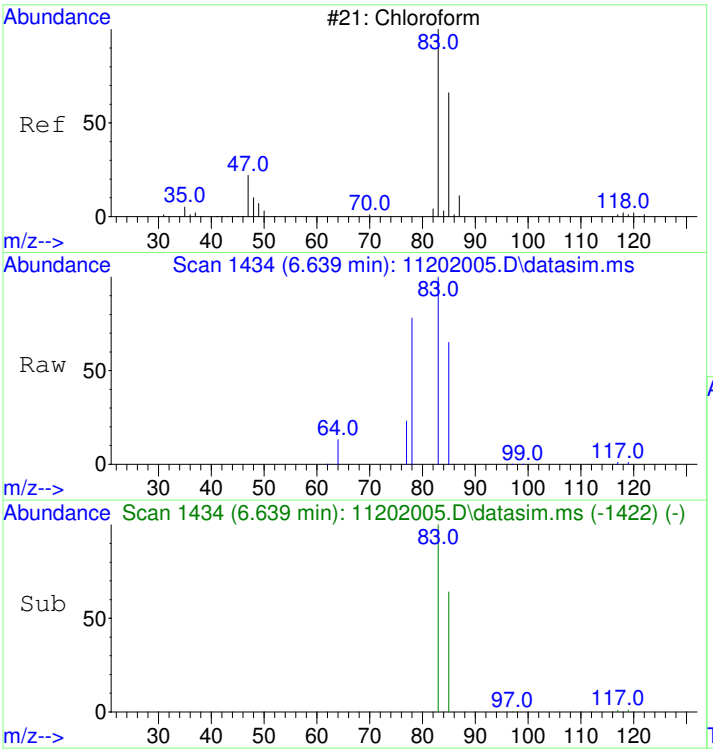


#5
cis-1,2-Dichloroethene
Concen: 1430.43 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 61 Resp: 38931

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

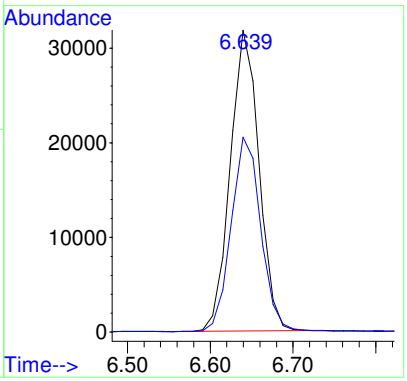


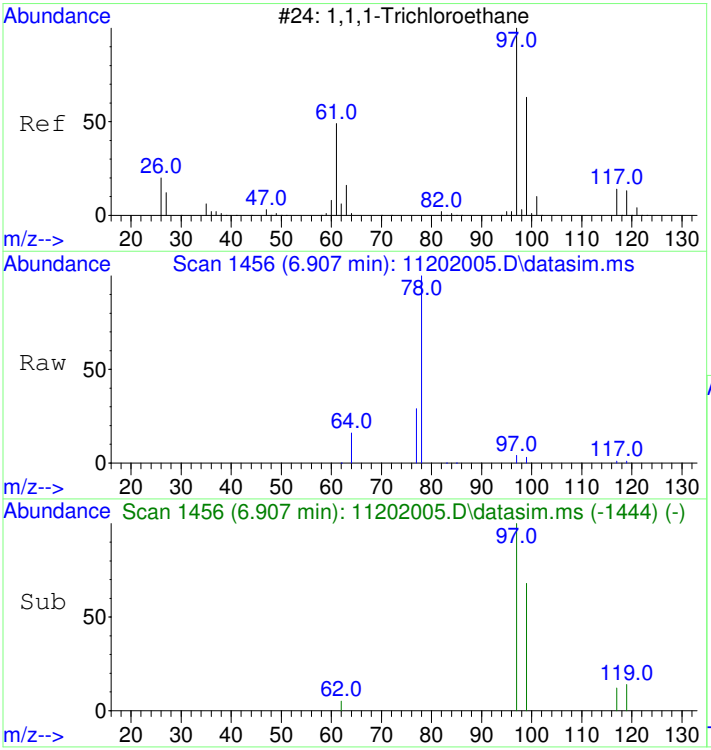


#6
Chloroform
Concen: 2761.97 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 83 Resp: 76940

Ion	Ratio	Lower	Upper
83	100		
85	66.2	35.1	95.1

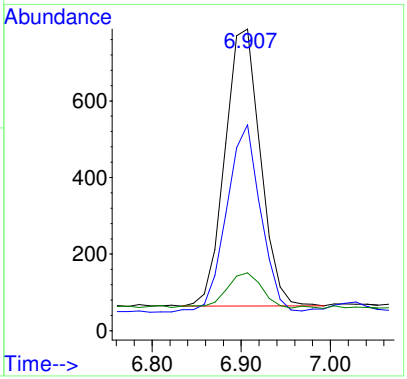


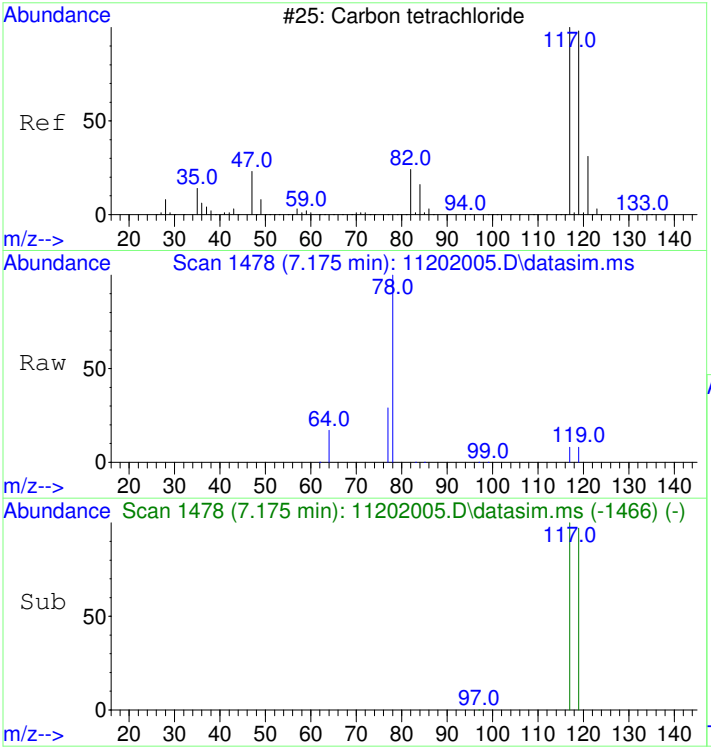


#7
1,1,1-Trichloroethane
Concen: 66.01 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 97 Resp: 1997

Ion	Ratio	Lower	Upper
97	100		
99	64.3	34.6	94.6
117	13.7	0.0	43.2

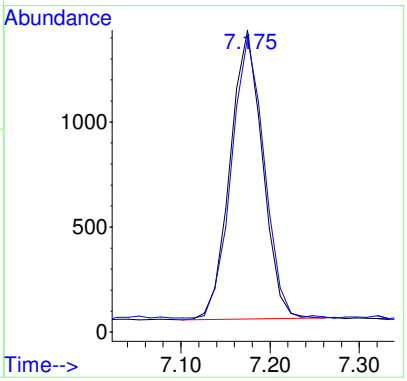


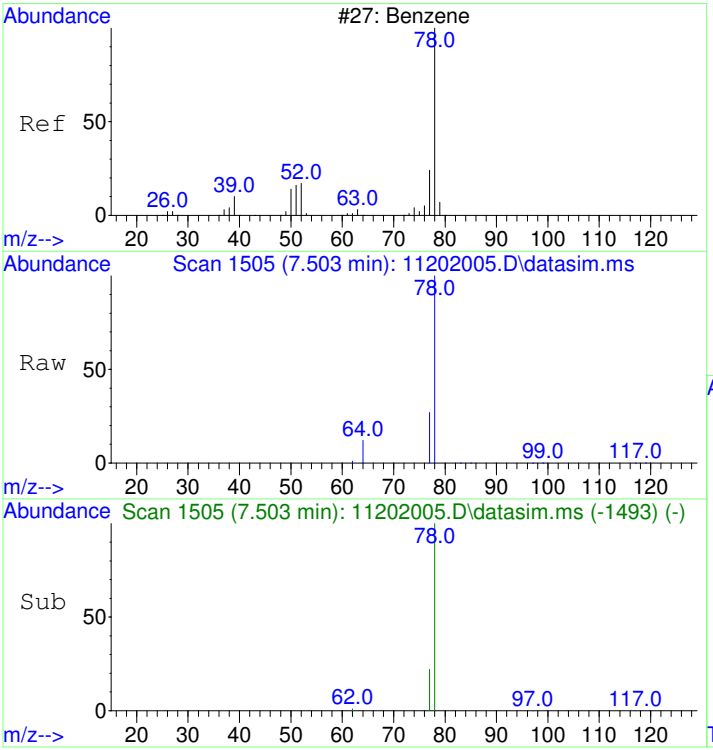


#8
Carbon tetrachloride
Concen: 121.34 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:117 Resp: 3455

Ion	Ratio	Lower	Upper
117	100		
119	98.4	66.4	126.4

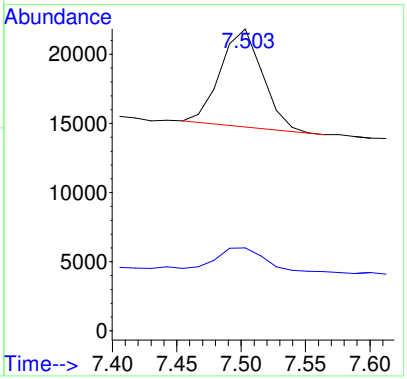


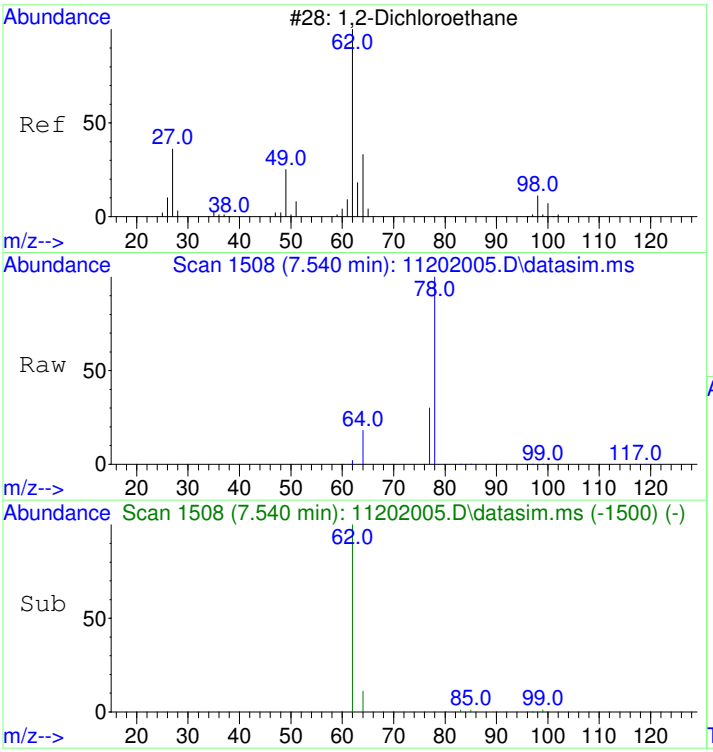


#9
Benzene
Concen: 207.66 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 78 Resp: 15840

Ion	Ratio	Lower	Upper
78	100		
77	38.9	0.0	53.2

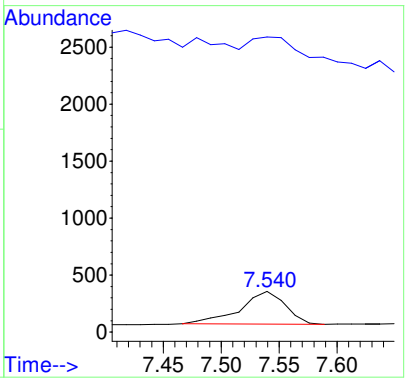


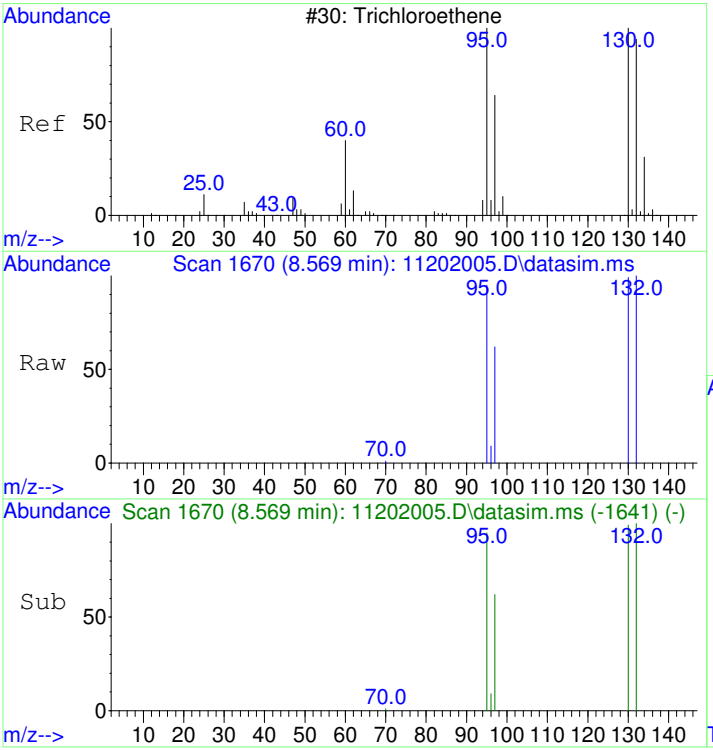


#10
1,2-Dichloroethane
Concen: 28.68 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 62 Resp: 781

Ion	Ratio	Lower	Upper
62	100		
64	118.1	2.3	62.3#

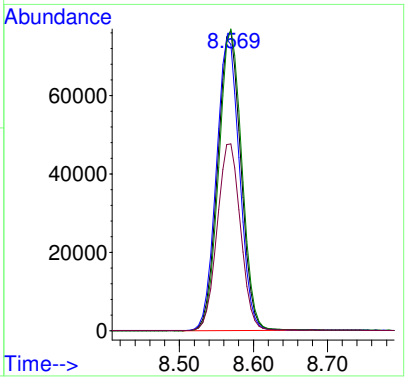


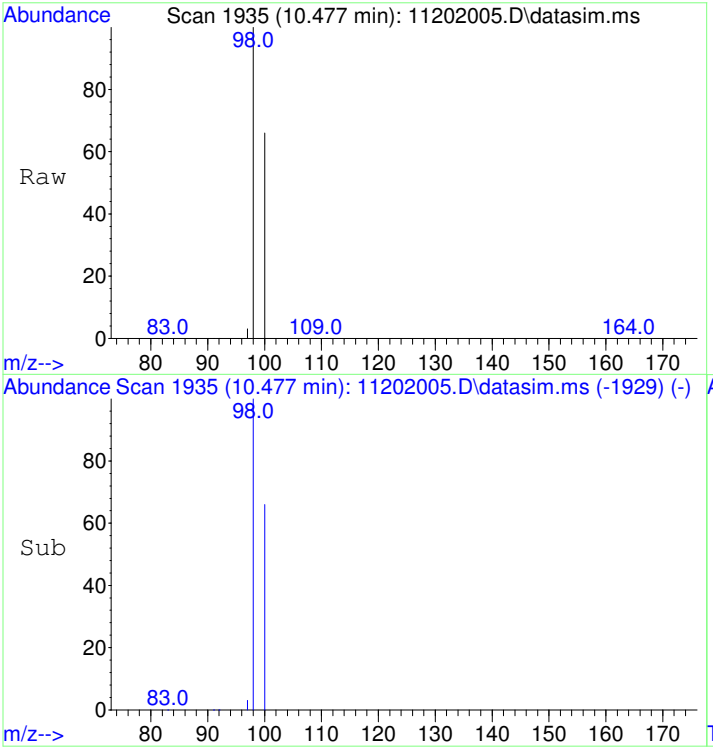


#11
Trichloroethene
Concen: 7232.89 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:130 Resp: 166117

Ion	Ratio	Lower	Upper
130	100		
95	97.6	60.7	120.7
132	99.8	76.0	116.0
97	62.6	38.6	78.6

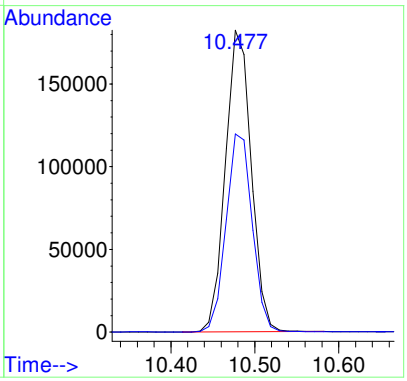


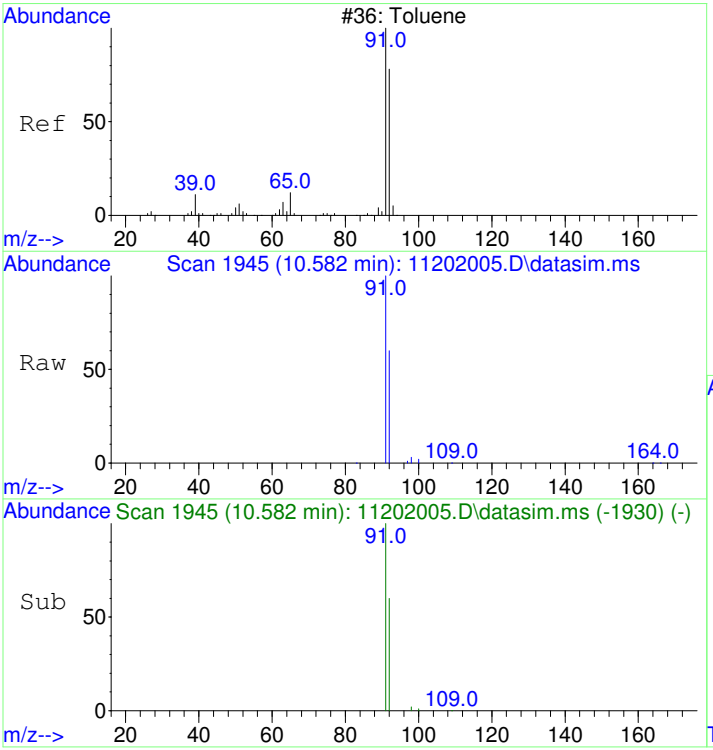


#12
Toluene-d8
Concen: 4427.68 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 98 Resp: 389139

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

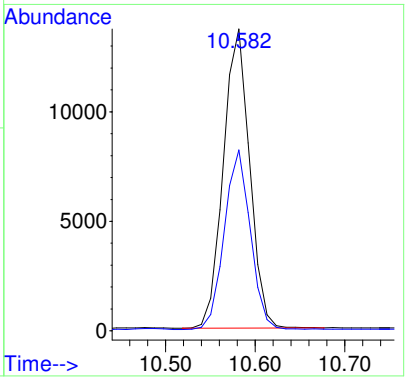


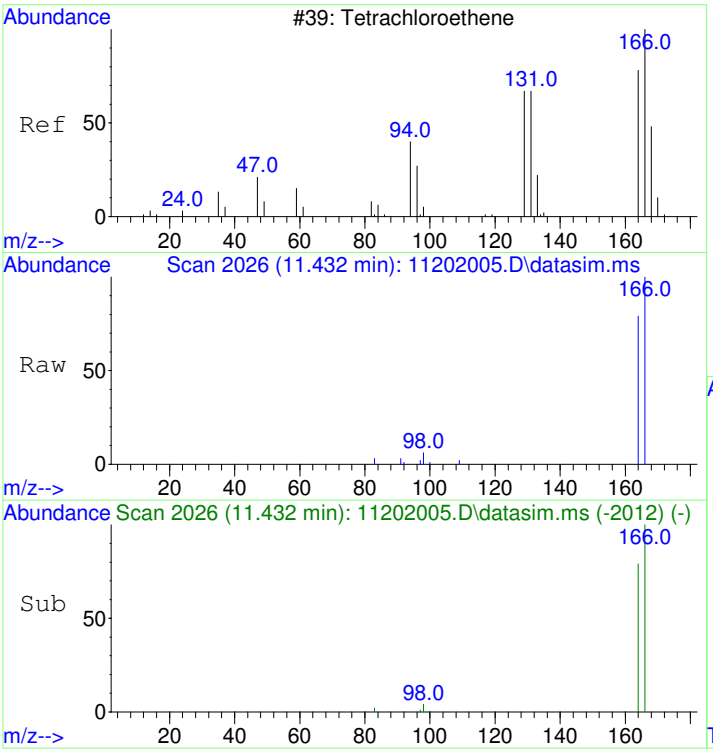


#13
Toluene
Concen: 249.41 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 27946

Ion	Ratio	Lower	Upper
91	100		
92	59.3	29.9	89.9

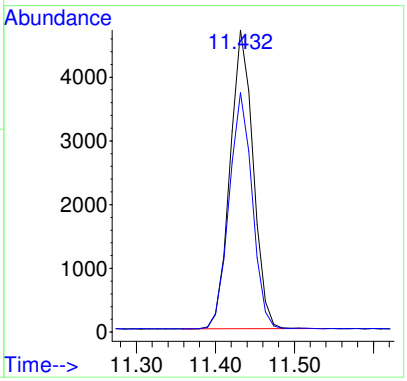


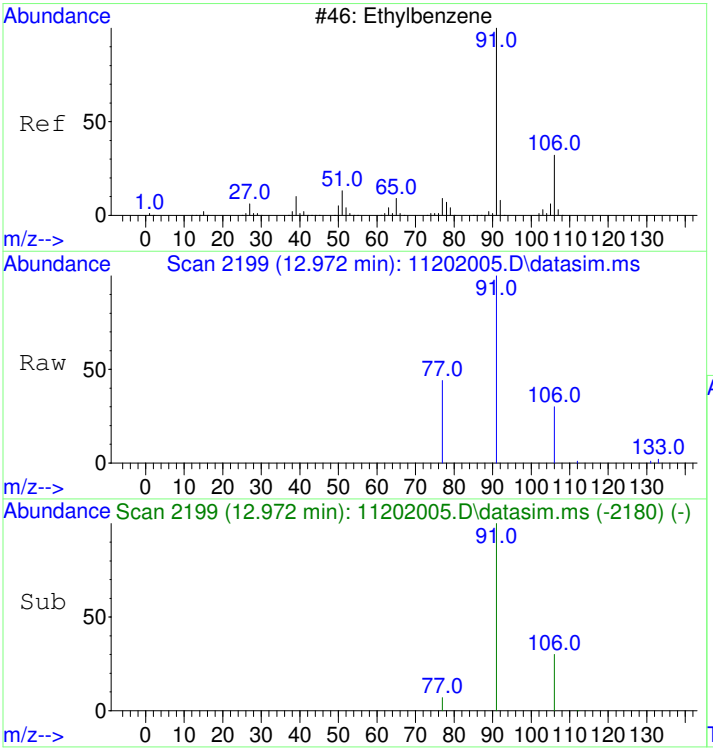


#15
Tetrachloroethene
Concen: 293.06 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:166 Resp: 9503

Ion	Ratio	Lower	Upper
166	100		
164	79.0	47.8	107.8

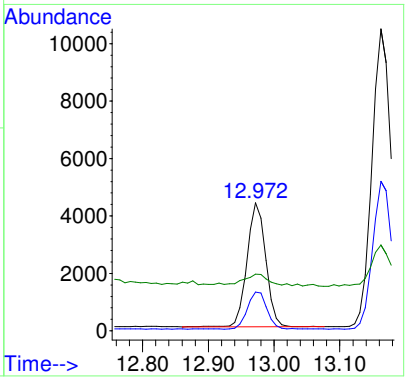


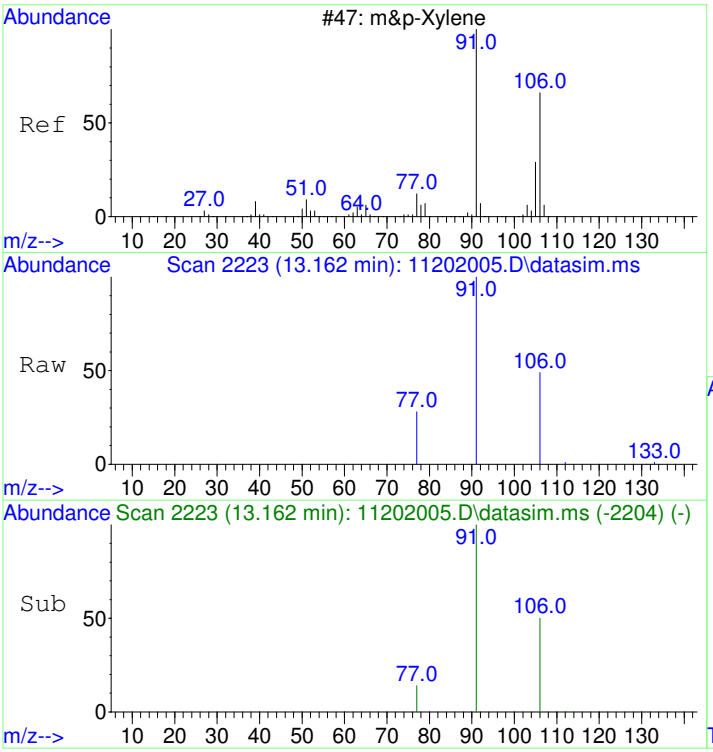


#18
Ethylbenzene
Concen: 62.31 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 8498

Ion	Ratio	Lower	Upper
91	100		
106	31.2	3.0	63.0
77	13.2	0.0	38.2

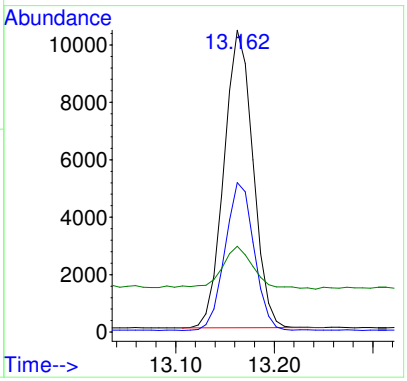


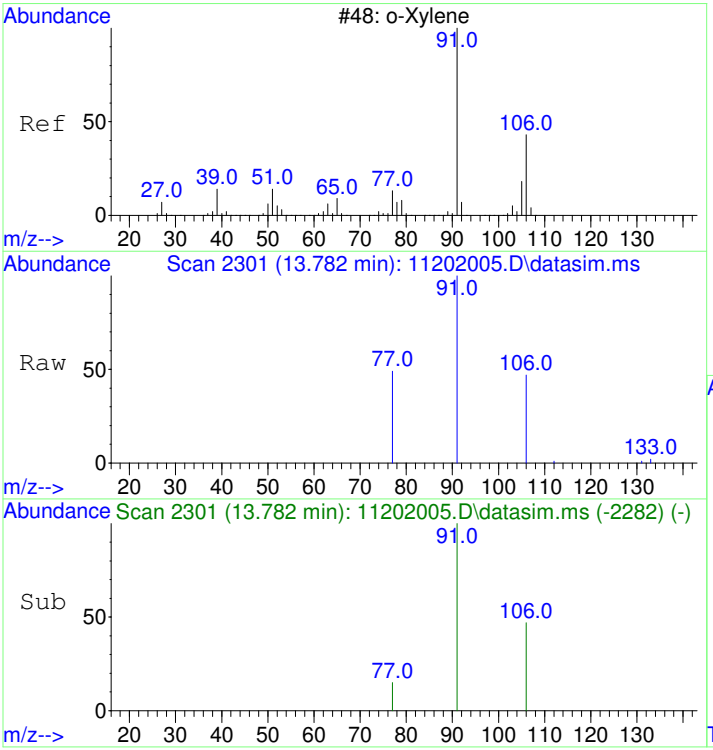


#19
m&p-Xylene
Concen: 198.69 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 21179

Ion	Ratio	Lower	Upper
91	100		
106	49.7	22.2	82.2
77	16.0	0.0	42.4

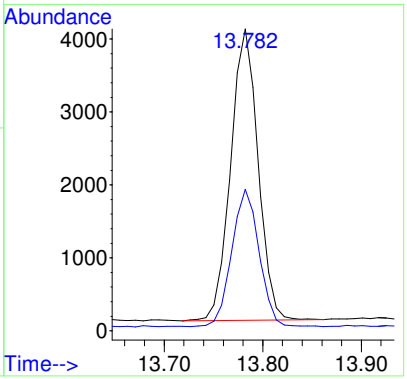


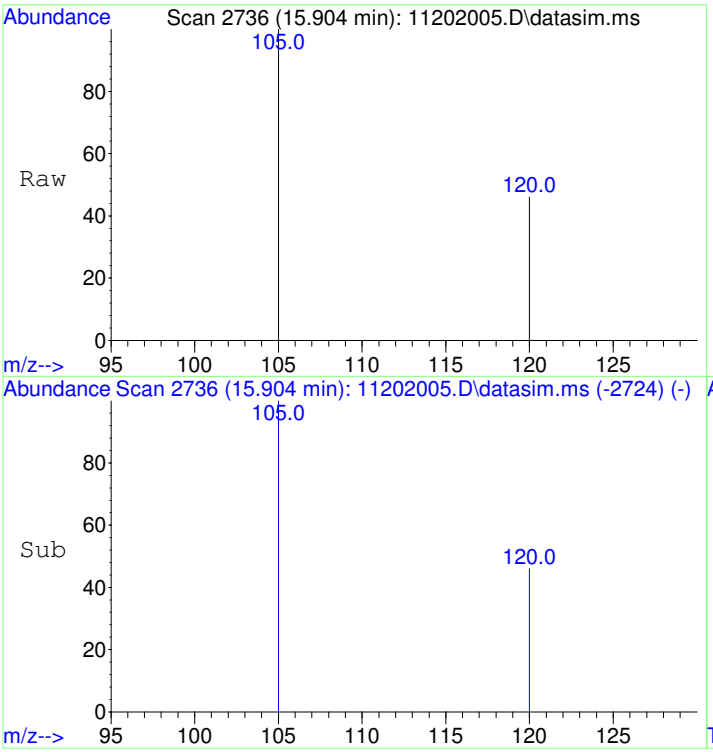


#20
o-Xylene
Concen: 67.79 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 7720

Ion	Ratio	Lower	Upper
91	100		
106	47.0	19.2	79.2

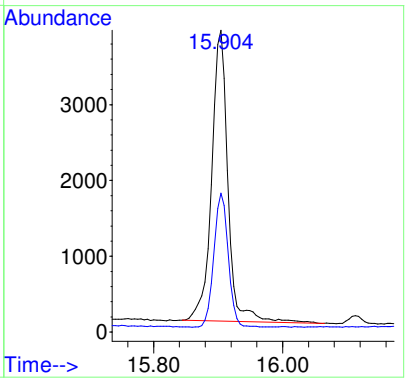


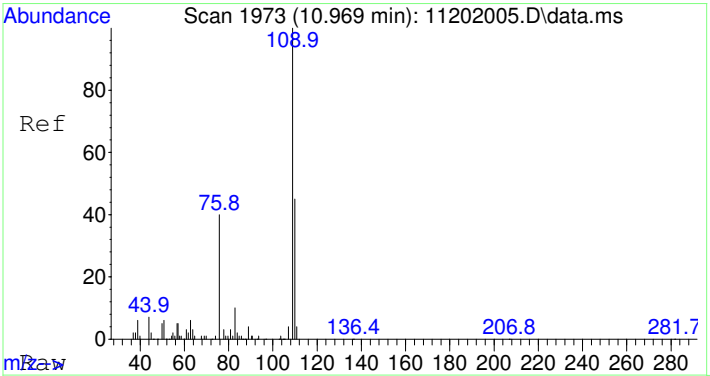


#23
1,2,4-Trimethylbenzene
Concen: 53.56 ug/L
RT: 15.904 min Scan# 2736
Delta R.T. 0.004 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:105 Resp: 6743

Ion	Ratio	Lower	Upper
105	100		
120	40.4	17.2	77.2

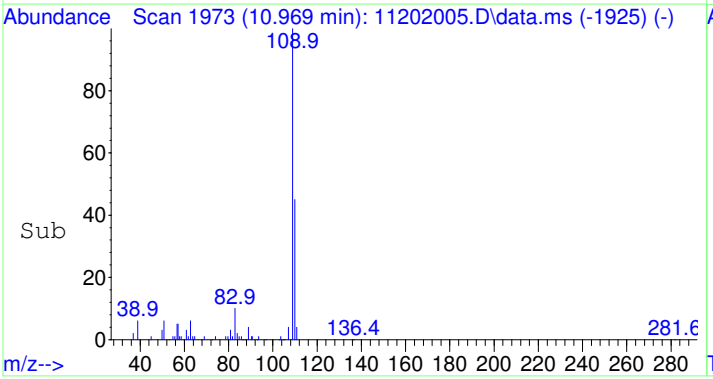


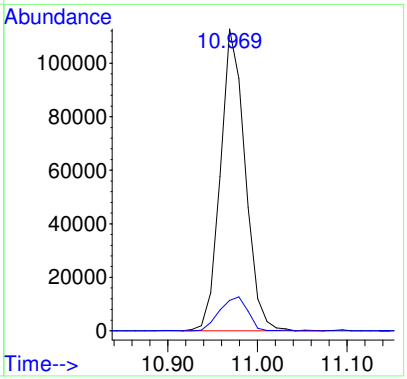


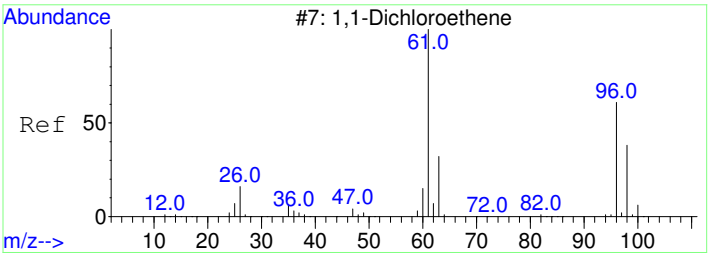
#25
2-Fluorotoluene SCAN
Concen: 4958.82 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:109 Resp: 217022

Ion	Ratio	Lower	Upper
109	100		
83	12.8	0.0	43.8



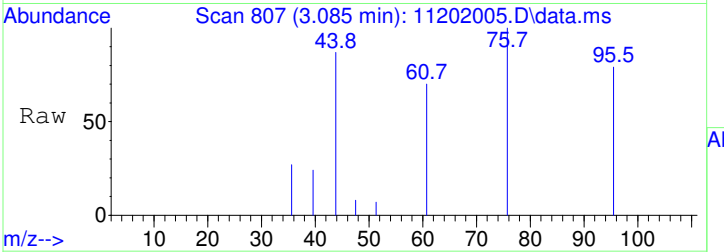


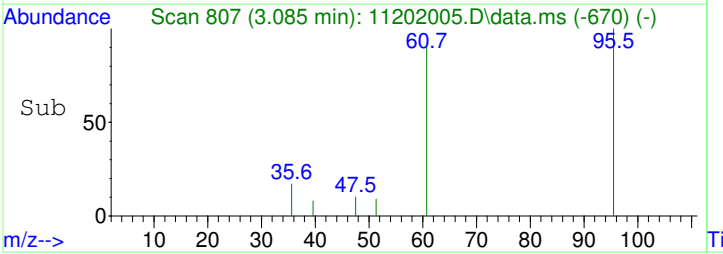


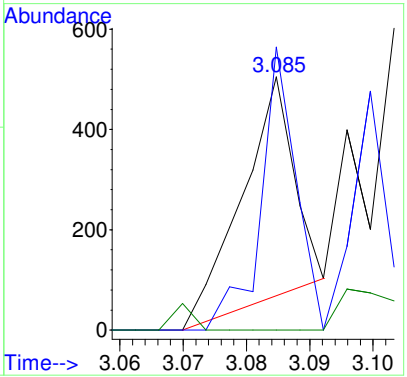
#26
1,1-Dichloroethene SCAN
Concen: 27.87 ug/L
RT: 3.085 min Scan# 807
Delta R.T. 0.007 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

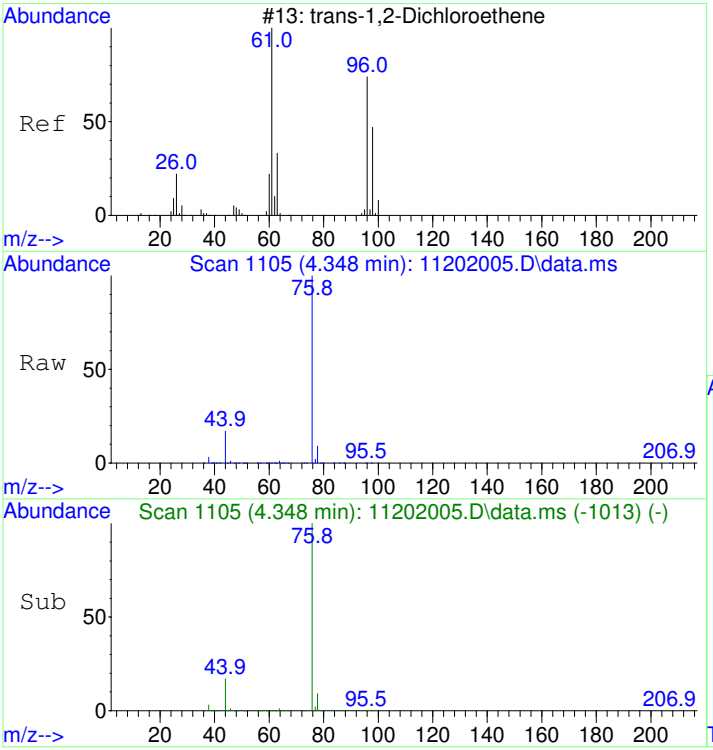
Tgt Ion: 61 Resp: 259

Ion	Ratio	Lower	Upper
61	100		
96	84.6	33.1	93.1
98	0.0	11.2	71.2#





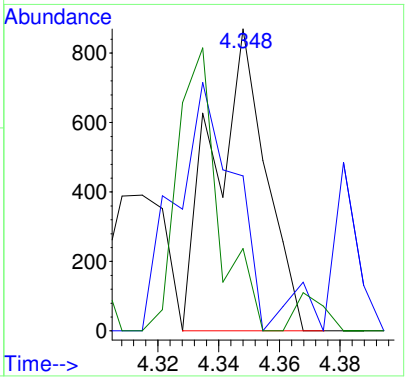


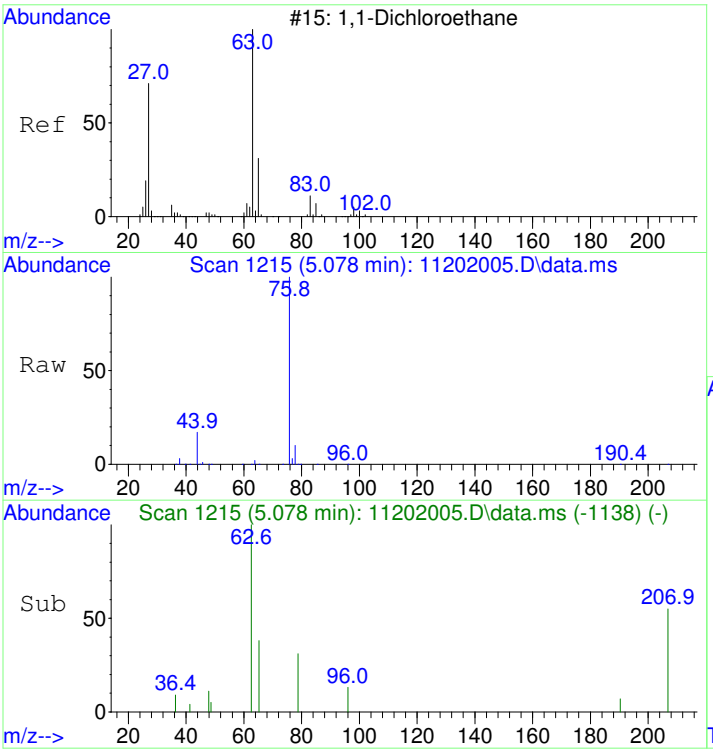


#27
trans-1,2-Dichloroethene SCAN
Concen: 91.03 ug/L
RT: 4.348 min Scan# 1105
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 61 Resp: 1047

Ion	Ratio	Lower	Upper
61	100		
96	83.3	49.0	109.0
98	72.7	20.5	80.5

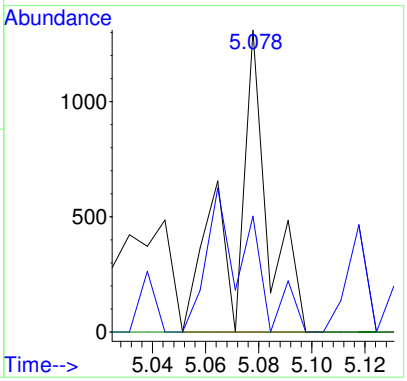


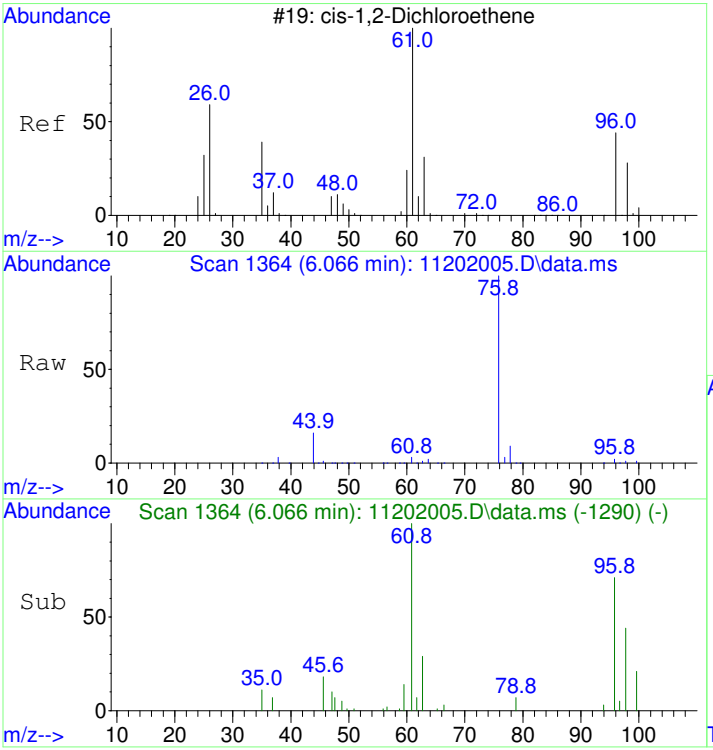


#28
1,1-Dichloroethane SCAN
Concen: 89.25 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 63 Resp: 1188

Ion	Ratio	Lower	Upper
63	100		
65	57.5	1.3	61.3
83	0.0	0.0	45.9

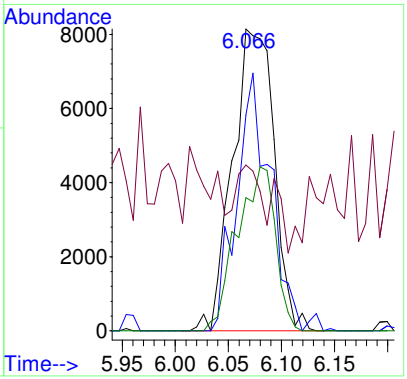


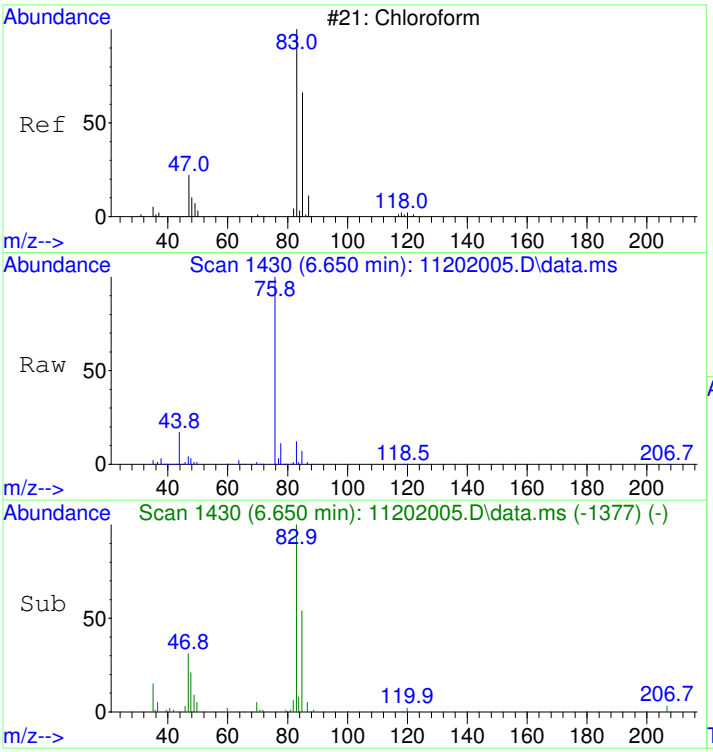


#29
cis-1,2-Dichloroethene SCAN
Concen: 1557.70 ug/L
RT: 6.066 min Scan# 1364
Delta R.T. -0.007 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 61 Resp: 22214

Ion	Ratio	Lower	Upper
61	100		
96	70.2	39.9	99.9
98	50.0	13.5	73.5
64	14.3	4.5	64.5

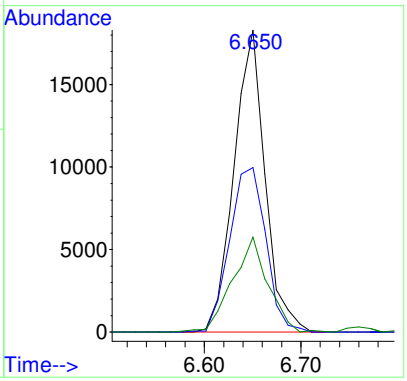


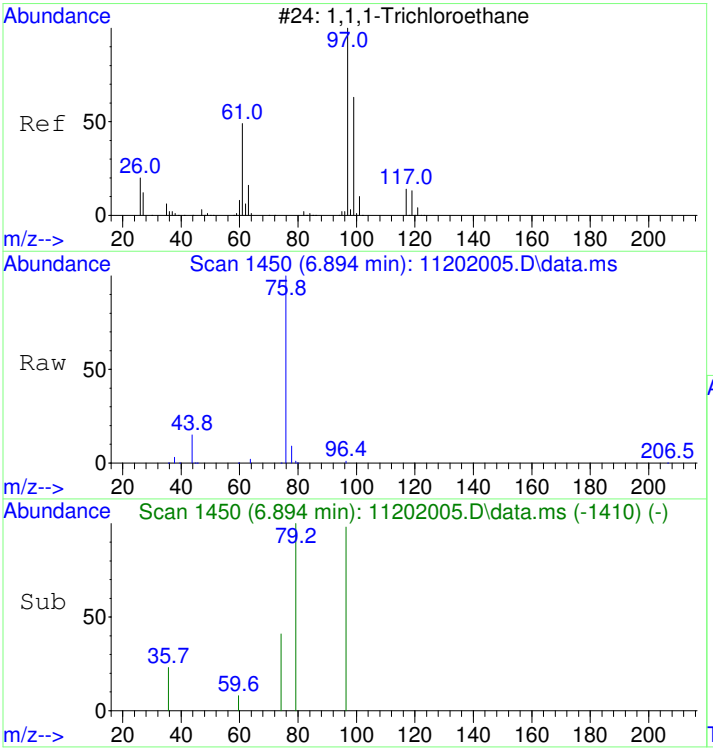


#30
Chloroform SCAN
Concen: 2648.80 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 83 Resp: 40971

Ion	Ratio	Lower	Upper
83	100		
85	63.5	34.6	94.6
47	36.0	0.0	53.4

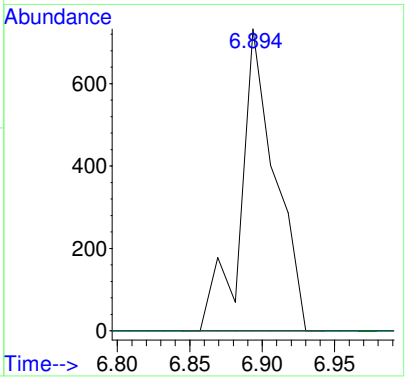


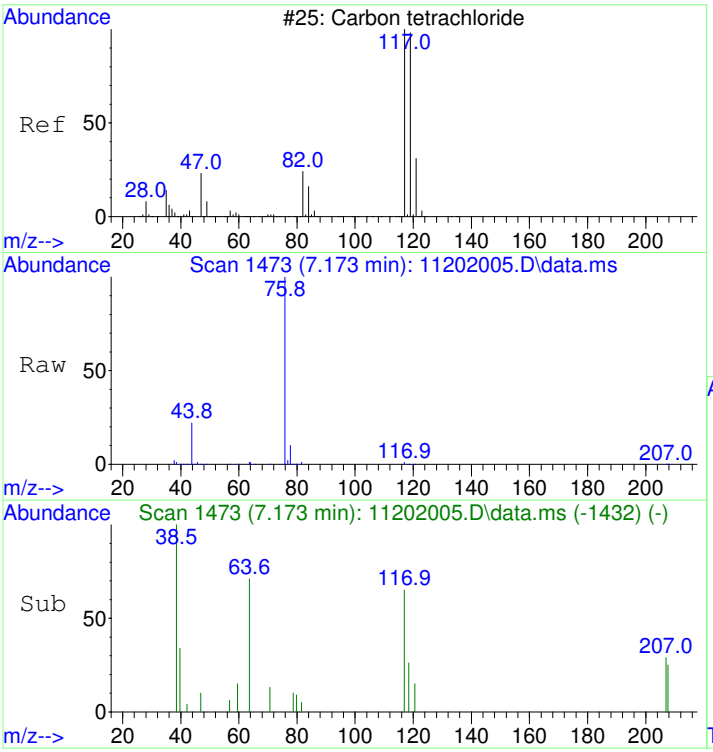


#31
1,1,1-Trichloroethane SCAN
Concen: 86.41 ug/L
RT: 6.894 min Scan# 1450
Delta R.T. -0.012 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 97 Resp: 1218

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	0.0	18.0	78.0#

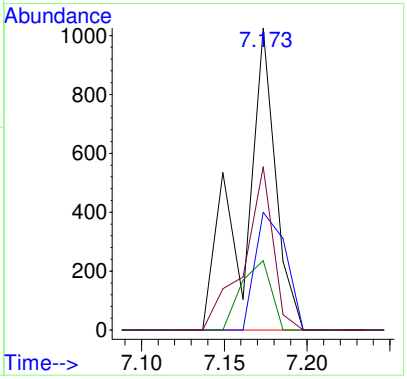


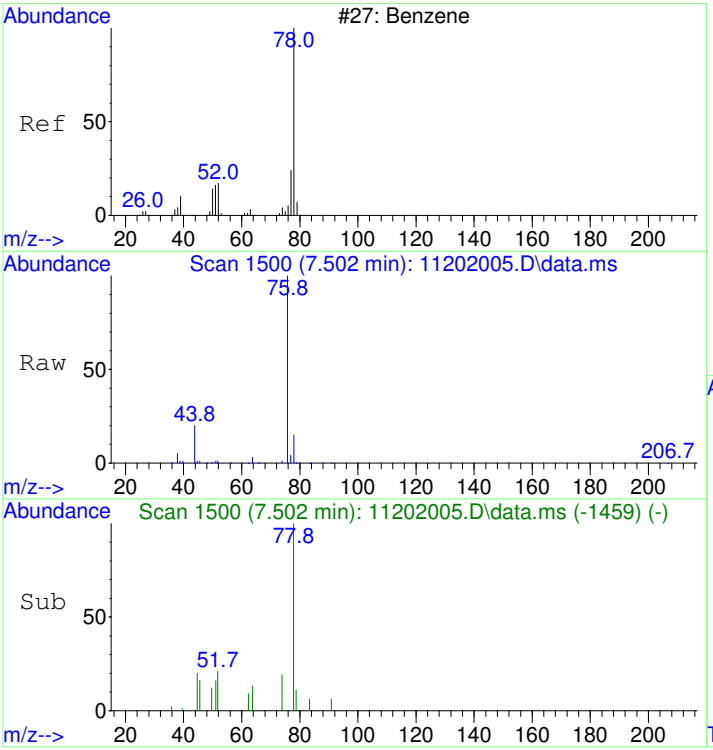


#32
Carbon tetrachloride SCAN
Concen: 94.13 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:117 Resp: 1384

Ion	Ratio	Lower	Upper
117	100		
119	37.5	75.5	135.5#
121	21.4	0.0	58.8
82	48.8	0.0	59.2

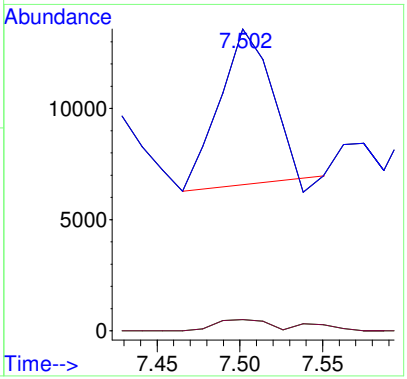


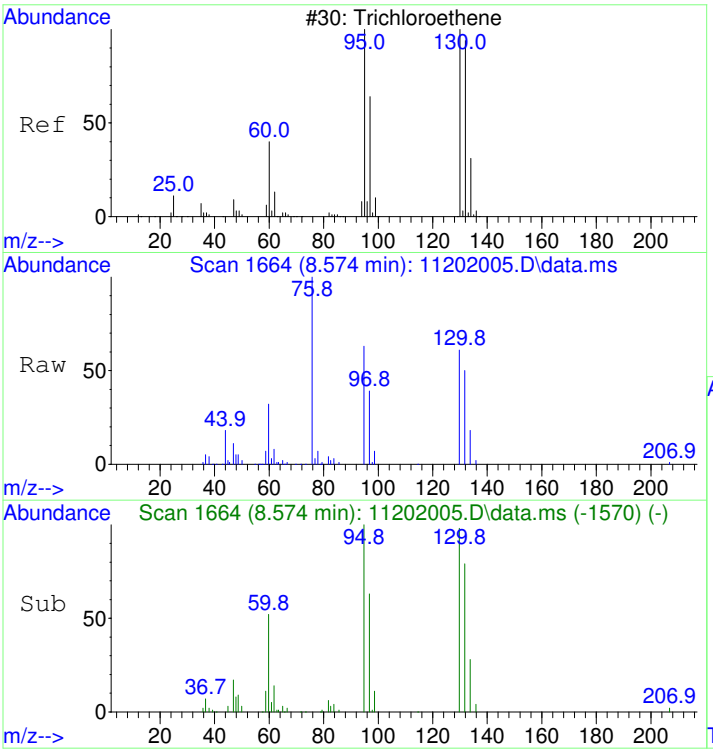


#33
Benzene SCAN
Concen: 392.73 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 78 Resp: 15242

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	6.8	0.0	47.9
51	6.8	0.0	44.1

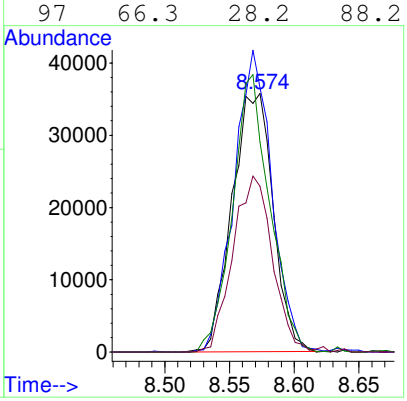


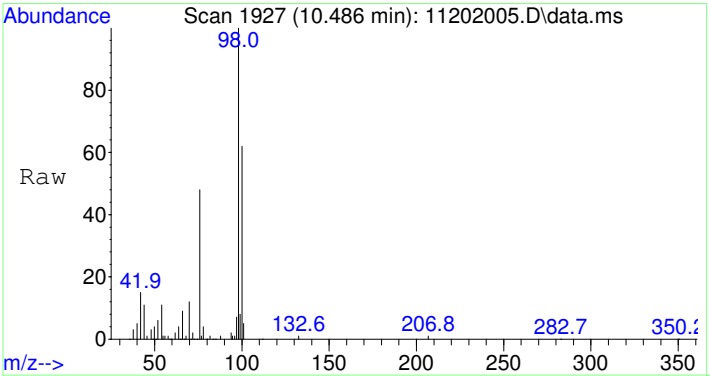


#35
Trichloroethene SCAN
Concen: 7396.70 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:130 Resp: 78888

Ion	Ratio	Lower	Upper
130	100		
95	107.4	60.5	120.5
132	97.6	59.6	119.6
97	66.3	28.2	88.2

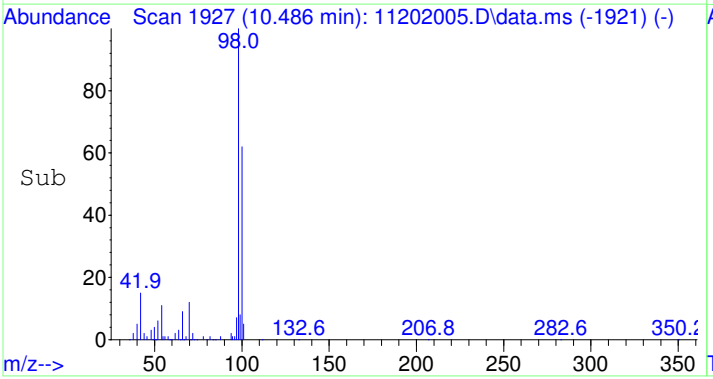


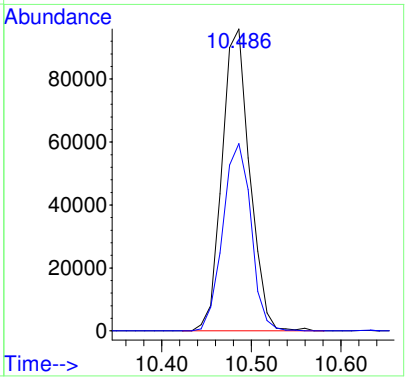


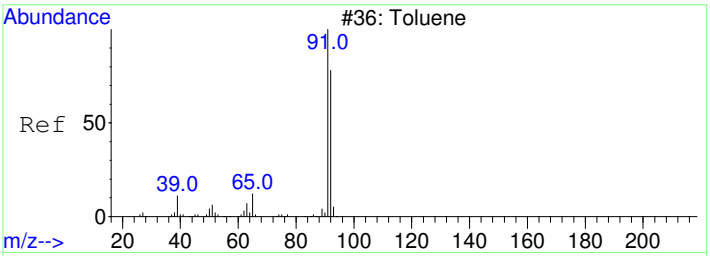
#36
Toluene-d8 SCAN
Concen: 4830.53 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 98 Resp: 206750

Ion	Ratio	Lower	Upper
98	100		
100	63.1	40.0	100.0



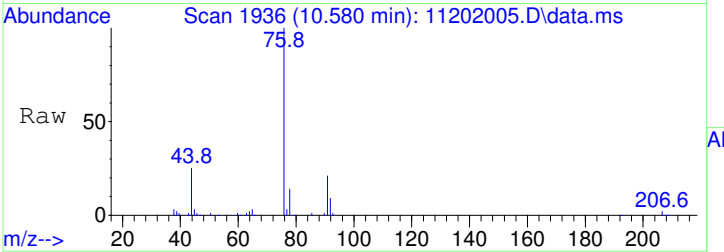


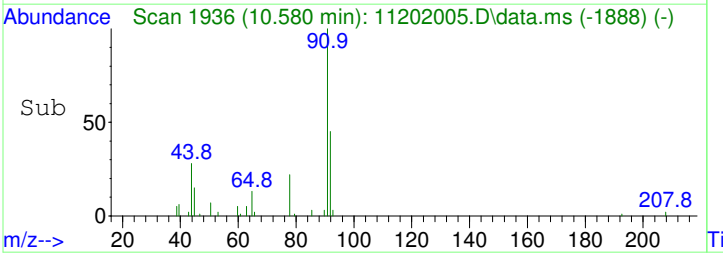


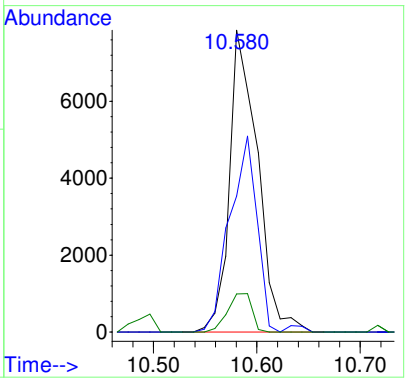
#37
Toluene SCAN
Concen: 270.49 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

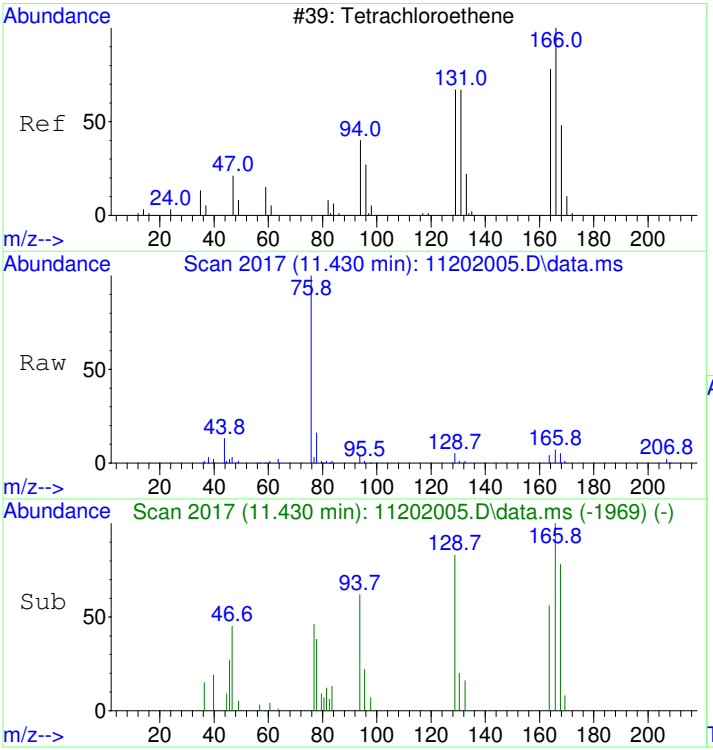
Tgt Ion: 91 Resp: 14826

Ion	Ratio	Lower	Upper
91	100		
92	62.8	28.3	88.3
65	11.0	0.0	41.0





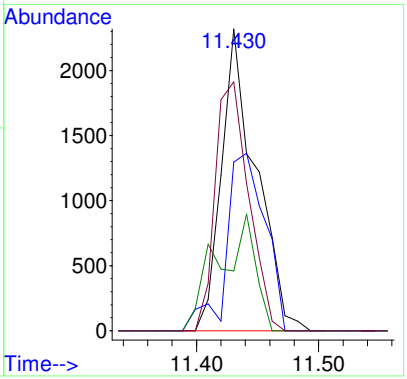


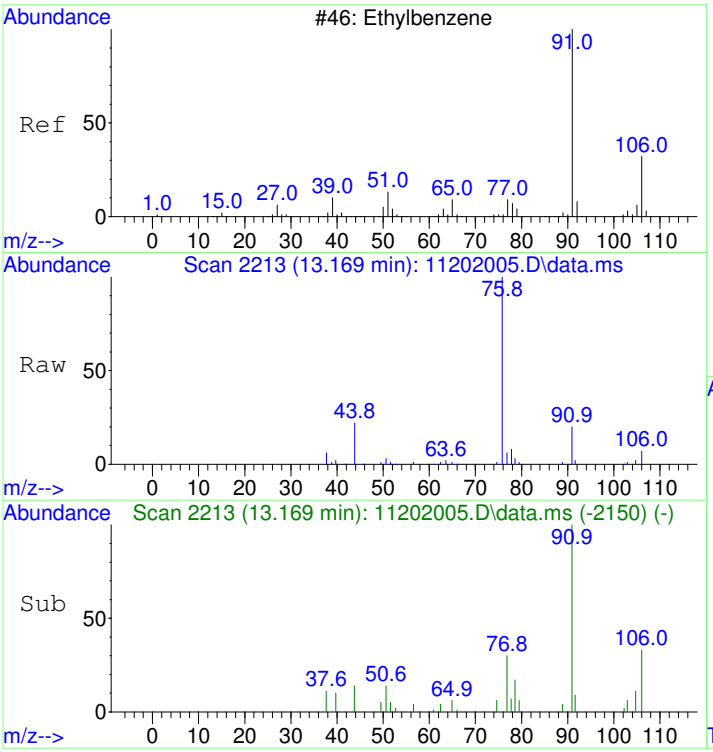


#39
Tetrachloroethene SCAN
Concen: 346.28 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:166 Resp: 4560

Ion	Ratio	Lower	Upper
166	100		
164	65.8	50.9	110.9
131	41.8	38.7	98.7
129	80.3	41.8	101.8

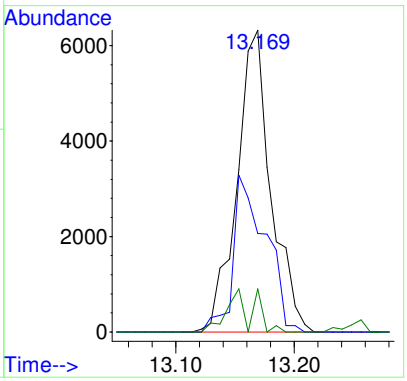


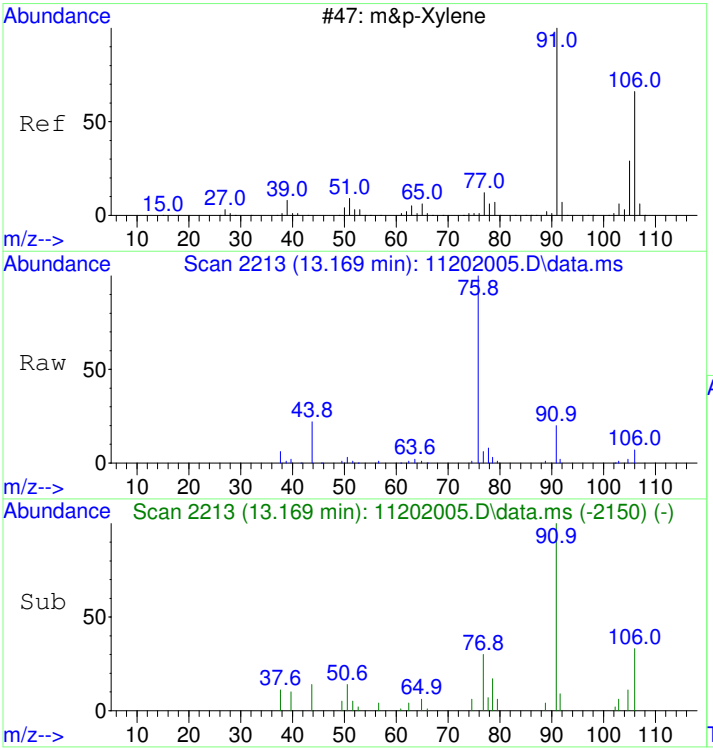


#42
Ethylbenzene SCAN
Concen: 126.66 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 12648

Ion	Ratio	Lower	Upper
91	100		
106	50.0	23.1	83.1
51	10.8	0.0	40.1

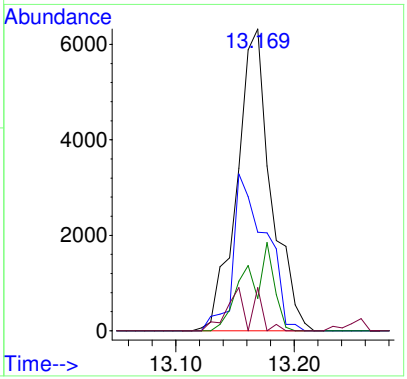


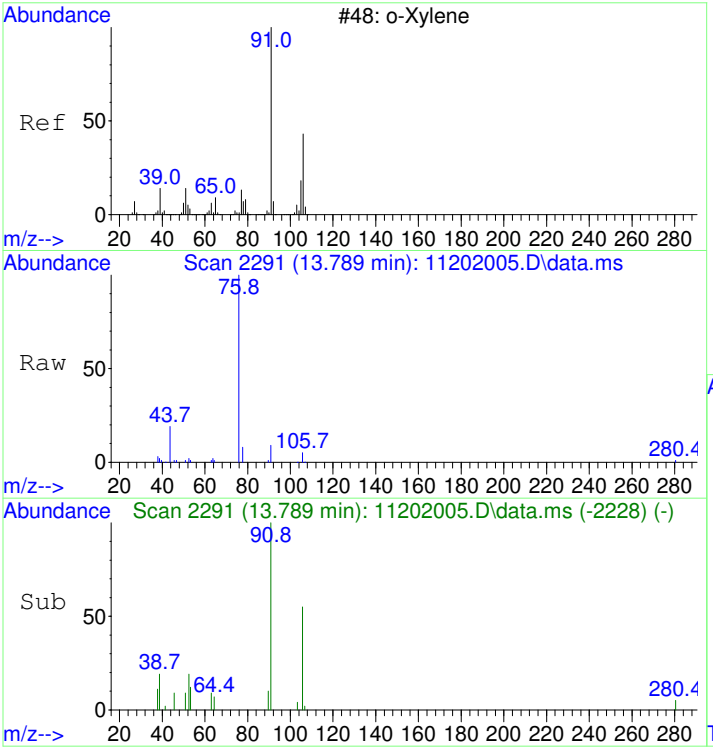


#43
m&p-Xylene SCAN
Concen: 126.66 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 12648

Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.1	83.1#
105	23.9	0.0	54.7
51	0.0	0.0	40.1

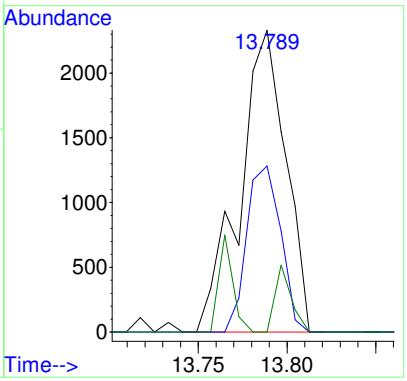


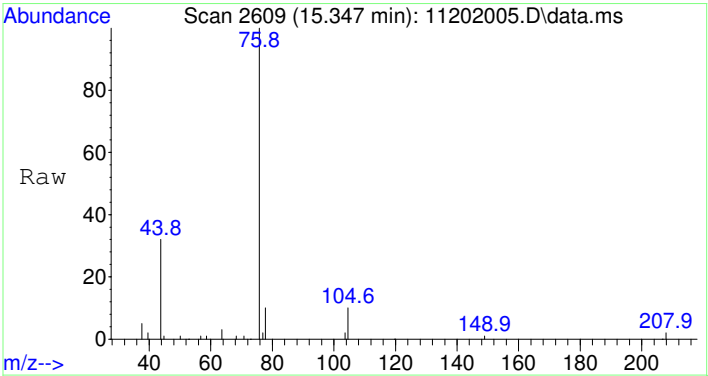


#44
o-Xylene SCAN
Concen: 78.50 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 4196

Ion	Ratio	Lower	Upper
91	100		
106	40.8	18.0	78.0
105	7.8	0.0	56.6

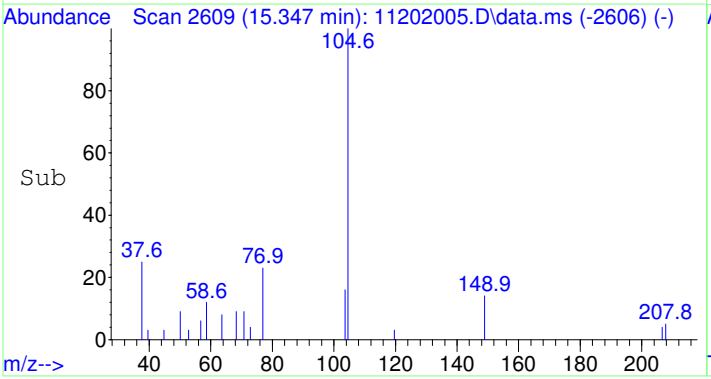


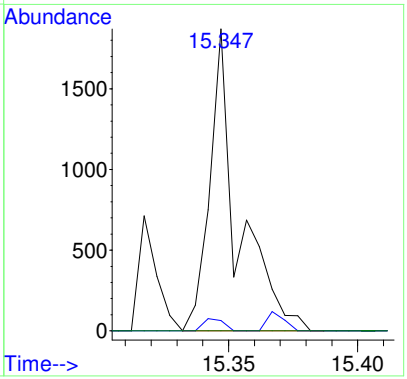


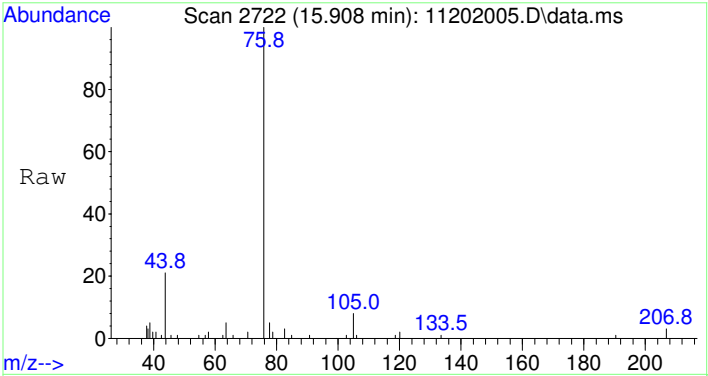
#46
1,3,5-Trimethylbenzene SCAN
Concen: 25.22 ug/L
RT: 15.347 min Scan# 2609
Delta R.T. 0.004 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:105 Resp: 1421

Ion	Ratio	Lower	Upper
105	100		
120	3.9	18.3	78.3#
119	0.0	0.0	43.1



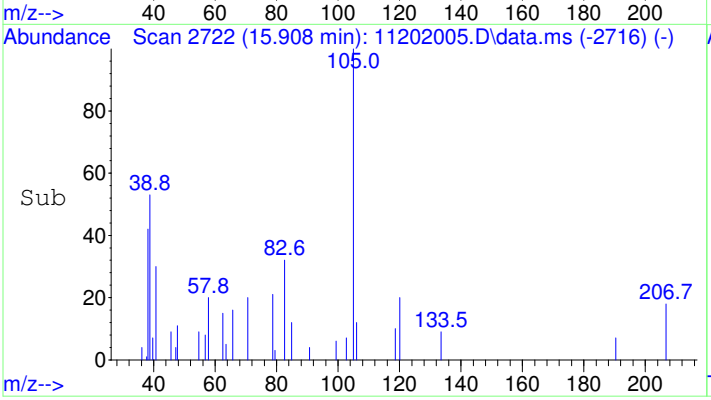


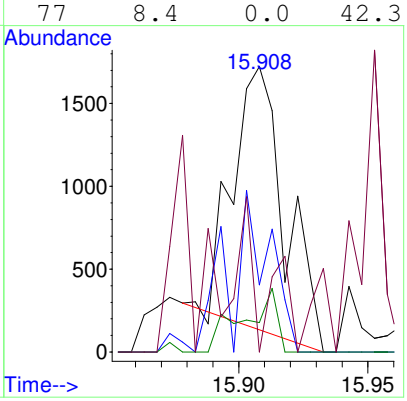


#47
1,2,4-Trimethylbenzene SCAN
Concen: 37.94 ug/L
RT: 15.908 min Scan# 2722
Delta R.T. 0.004 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:105 Resp: 2187

Ion	Ratio	Lower	Upper
105	100		
120	33.2	16.9	76.9
119	15.7	0.0	41.9
77	8.4	0.0	42.3





Quantitation Report (Not Reviewed)

Table of Contents

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202005.D
Acq On : 20 Nov 2020 11:15 am
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-23
Misc :
ALS Vial : 5
Multiplier: 1

Before Manual Integration

Quant Time: Nov 23 14:31:06 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	448955	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	389139	4427.68	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.55%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	1985	110.72	ug/L	68
3] trans-1,2-Dichloroethene	4.336	61	2683	129.53	ug/L	89
4] 1,1-Dichloroethane	5.059	63	2188	84.86	ug/L	78
5] cis-1,2-Dichloroethene	6.074	61	38931	1430.43	ug/L	99
6] Chloroform	6.639	83	76940	2761.97	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1997	66.01	ug/L	100
8] Carbon tetrachloride	7.175	117	3455	121.34	ug/L	98
9] Benzene	7.503	78	15840	207.66	ug/L	68
10] 1,2-Dichloroethane	7.540	62	781	28.68	ug/L #	1
11] Trichloroethene	8.569	130	166117	7232.89	ug/L	94
13] Toluene	10.582	91	27946	249.41	ug/L	99
14] 1,1,2-Trichloroethane	11.159	97	492	20.15	ug/L #	19
15] Tetrachloroethene	11.432	166	9503	293.06	ug/L	99
18] Ethylbenzene	12.972	91	8498	62.31	ug/L	95
19] m&p-Xylene	13.162	91	21179	198.69	ug/L	95
20] o-Xylene	13.782	91	7720	67.79	ug/L	97
23] 1,2,4-Trimethylbenzene	15.904	105	6743	53.56	ug/L	90
25) 2-Fluorotoluene SCAN	10.969	109	217022	4958.82	ug/L	98
26) 1,1-Dichloroethene SCAN	3.085	61	259	27.87	ug/L #	57
27) trans-1,2-Dichloroethe...	4.348	61	1047	91.03	ug/L	85
28) 1,1-Dichloroethane SCAN	5.078	63	1188	89.25	ug/L #	56
29) cis-1,2-Dichloroethene...	6.066	61	22214	1557.70	ug/L	89
30) Chloroform SCAN	6.650	83	40971	2648.80	ug/L	92
31) 1,1,1-Trichloroethane ...	6.894	97	1218	86.41	ug/L #	19
32) Carbon tetrachloride SCAN	7.173	117	1384	94.13	ug/L #	48
33) Benzene SCAN	7.502	78	15242	392.73	ug/L	95
35) Trichloroethene SCAN	8.574	130	78888	7396.70	ug/L	87
36) Toluene-d8 SCAN	10.486	98	206750	4830.53	ug/L	92
37) Toluene SCAN	10.580	91	14826	270.49	ug/L	95
39) Tetrachloroethene SCAN	11.430	166	4560	346.28	ug/L	80
42) Ethylbenzene SCAN	13.169	91	12648	126.66	ug/L	96
43) m&p-Xylene SCAN	13.169	91	12648	126.66	ug/L #	51
44) o-Xylene SCAN	13.789	91	4196	78.50	ug/L	80
46) 1,3,5-Trimethylbenzene...	15.347	105	1421	25.22	ug/L #	41
47) 1,2,4-Trimethylbenzene...	15.908	105	2187	37.94	ug/L	83

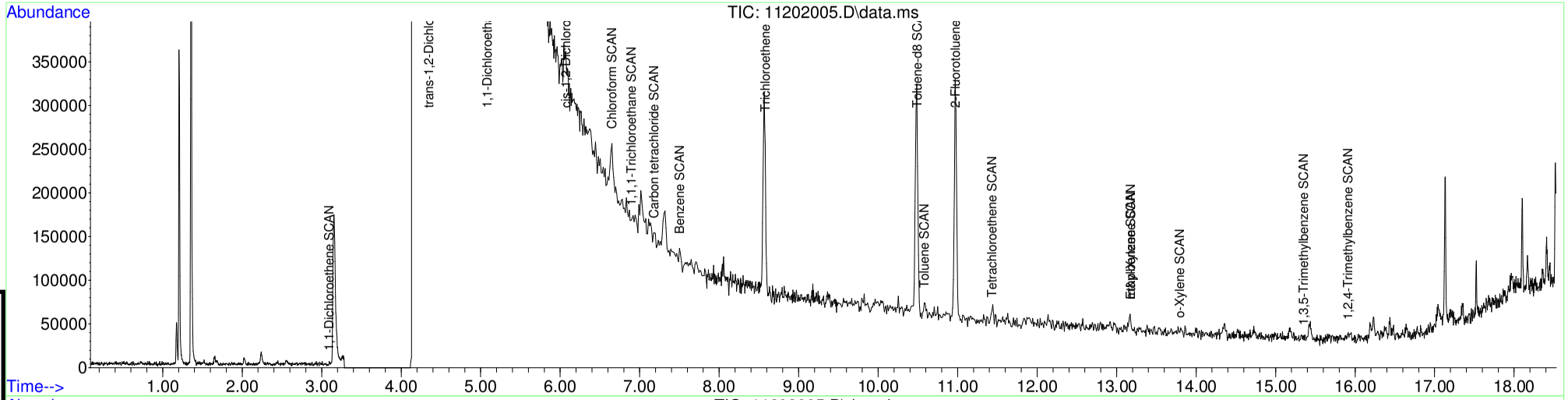
(#) = qualifier out of range (m) = manual integration (+) = signals summed

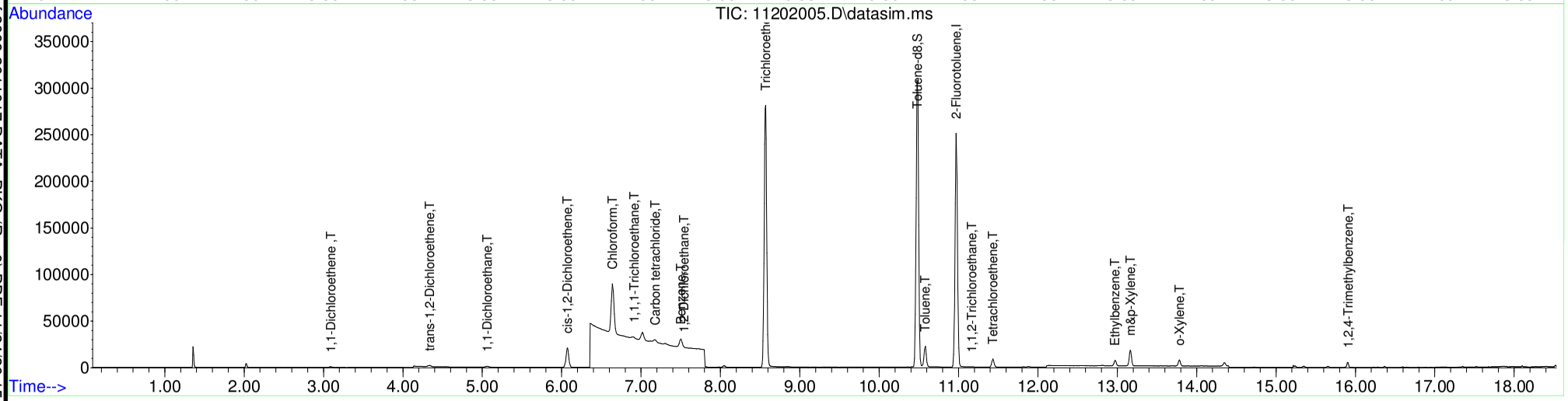
Quantitation Report (Not Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202005.D
Acq On : 20 Nov 2020 11:15 am
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-23
Misc :
ALS Vial : 5
Multiplier: 1

Quant Time: Nov 23 14:31:06 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M





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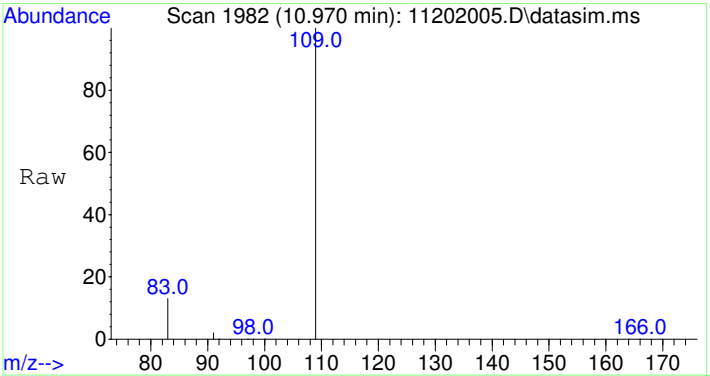
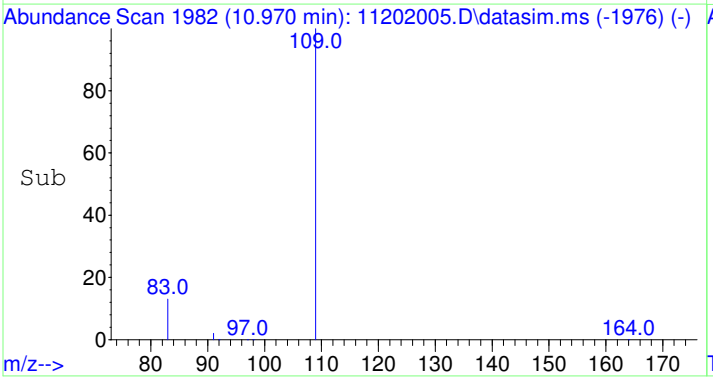
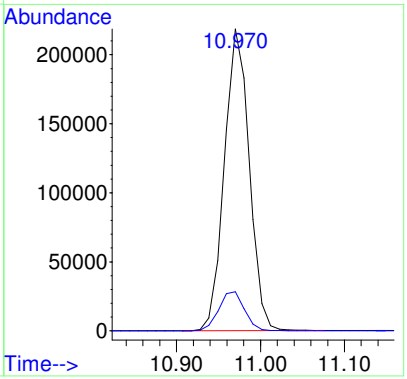


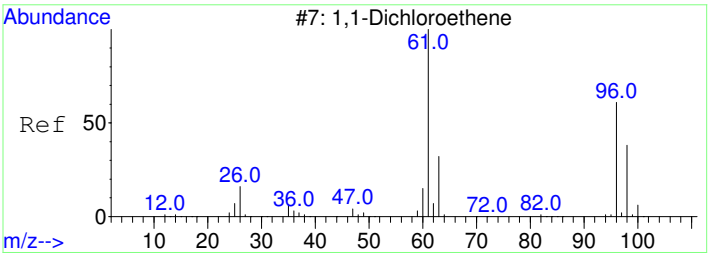
#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:109 Resp: 448955

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3



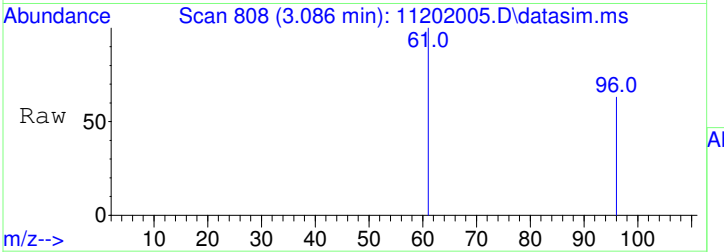


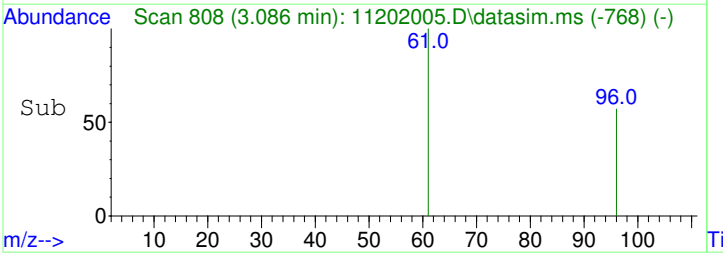


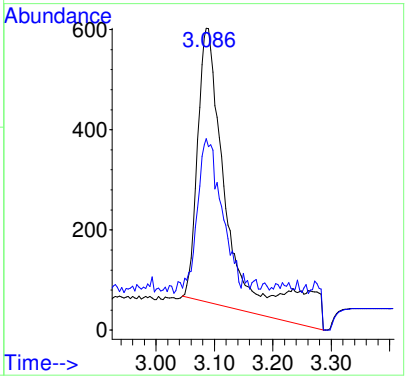
#2
1,1-Dichloroethene
Concen: 110.72 ug/L
RT: 3.086 min Scan# 808
Delta R.T. 0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 61 Resp: 1985

Ion	Ratio	Lower	Upper
61	100		
96	41.7	37.2	97.2







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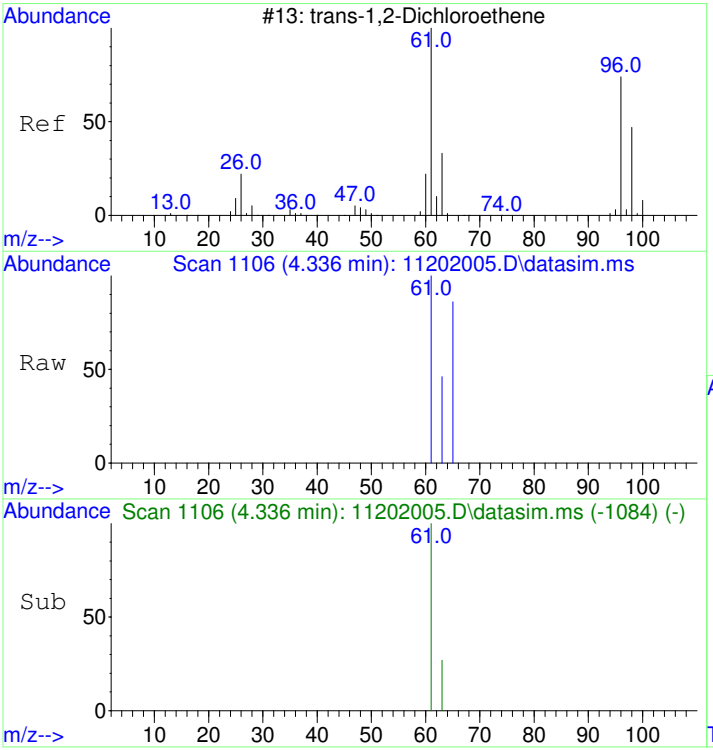
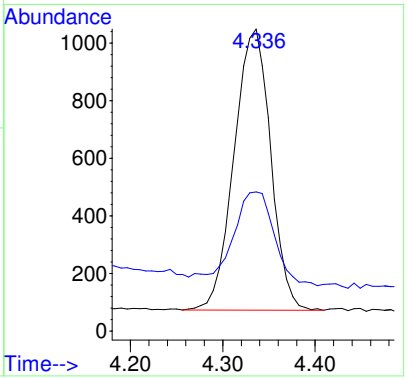
IMPROPER
BASELINE

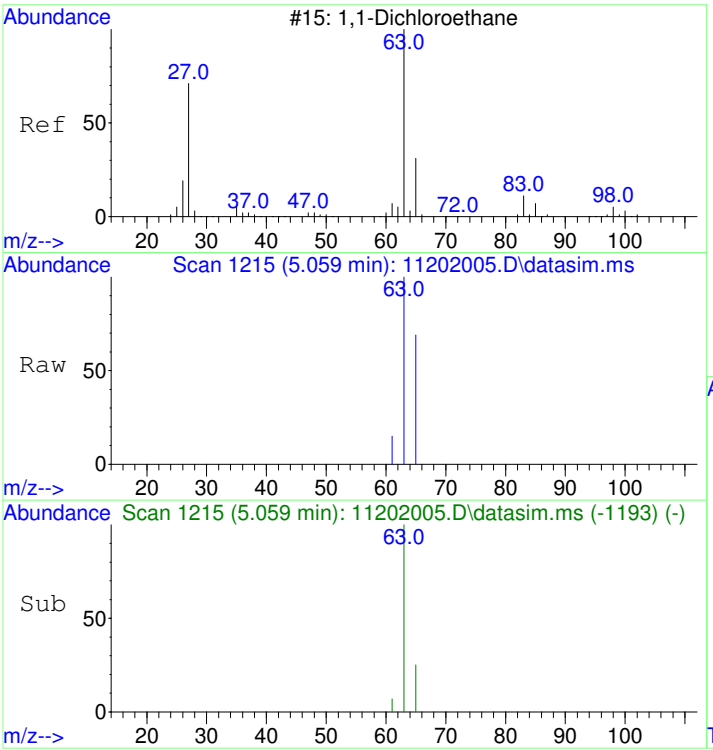


#3
trans-1,2-Dichloroethene
Concen: 129.53 ug/L
RT: 4.336 min Scan# 1106
Delta R.T. -0.007 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 61 Resp: 2683

Ion	Ratio	Lower	Upper
61	100		
63	38.8	2.4	62.4

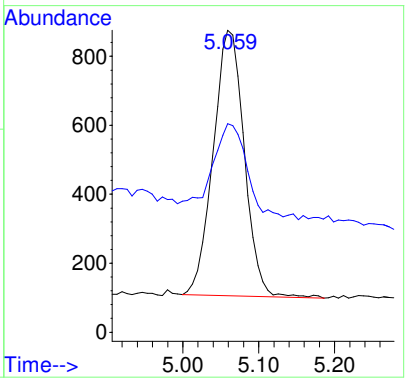


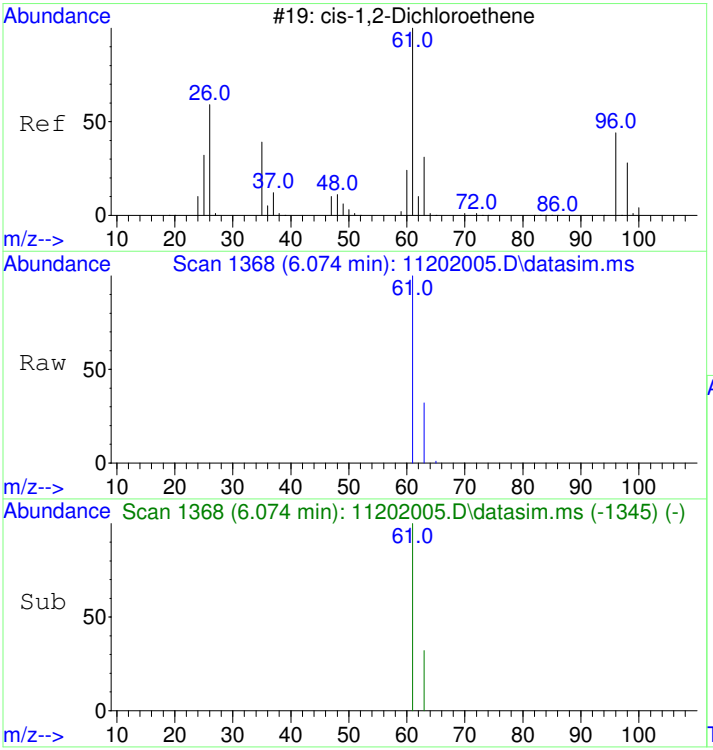


#4
1,1-Dichloroethane
Concen: 84.86 ug/L
RT: 5.059 min Scan# 1215
Delta R.T. -0.007 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 63 Resp: 2188

Ion	Ratio	Lower	Upper
63	100		
65	44.0	1.8	61.8

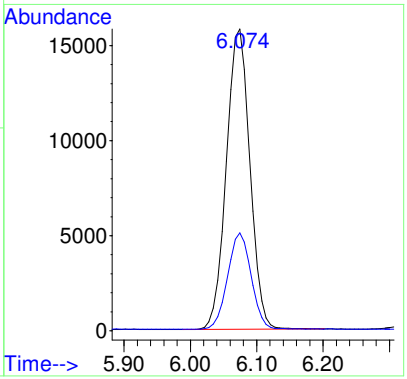


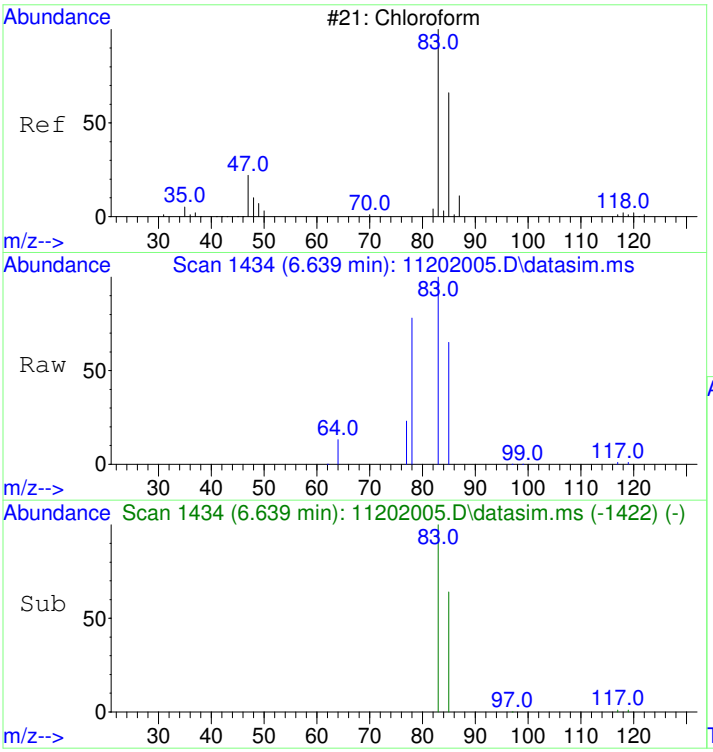


#5
cis-1,2-Dichloroethene
Concen: 1430.43 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 61 Resp: 38931

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

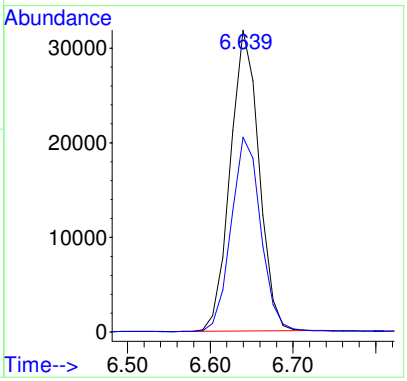


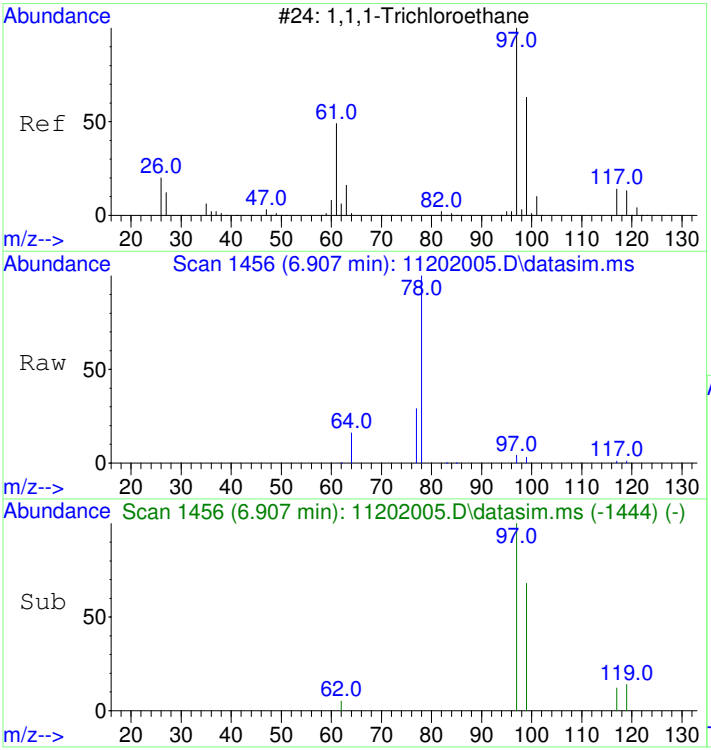


#6
Chloroform
Concen: 2761.97 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 83 Resp: 76940

Ion	Ratio	Lower	Upper
83	100		
85	66.2	35.1	95.1

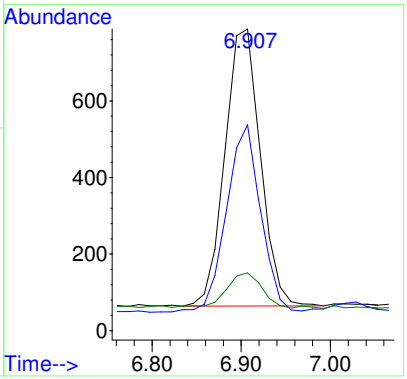


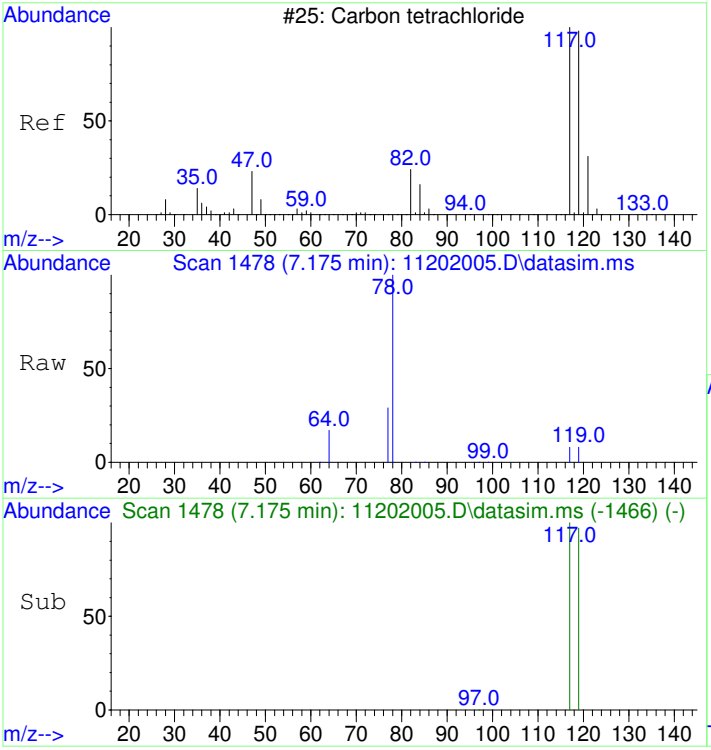


#7
1,1,1-Trichloroethane
Concen: 66.01 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 97 Resp: 1997

Ion	Ratio	Lower	Upper
97	100		
99	64.3	34.6	94.6
117	13.7	0.0	43.2

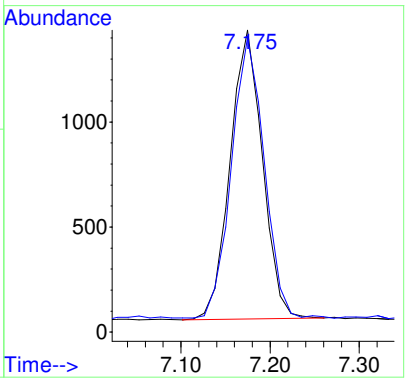


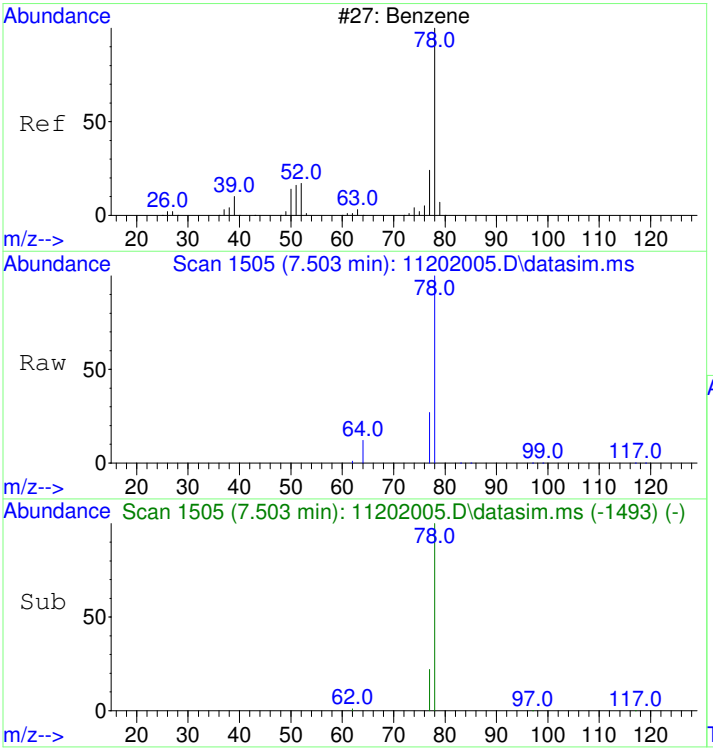


#8
Carbon tetrachloride
Concen: 121.34 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:117 Resp: 3455

Ion	Ratio	Lower	Upper
117	100		
119	98.4	66.4	126.4

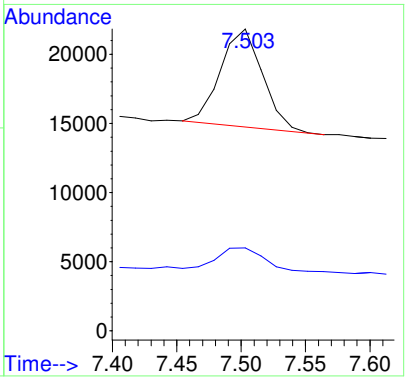


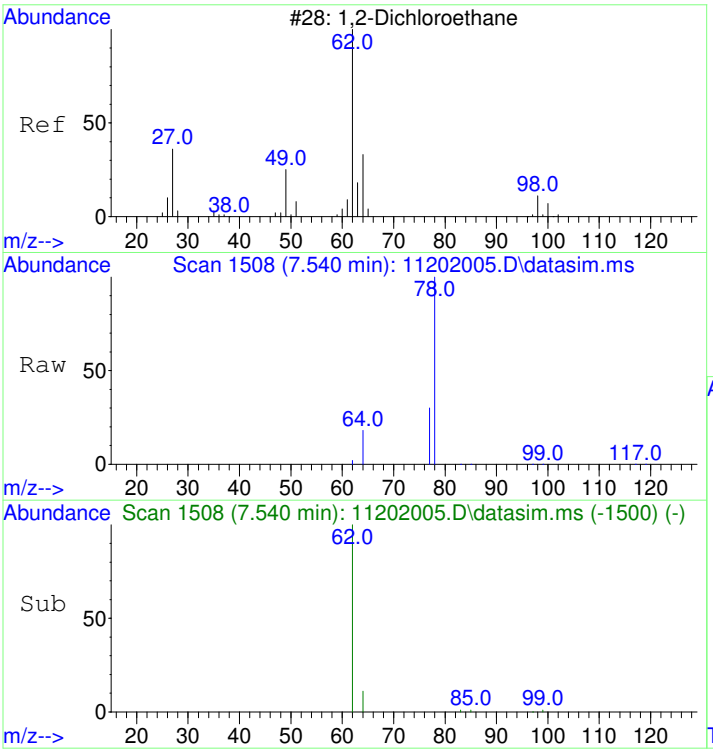


#9
Benzene
Concen: 207.66 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 78 Resp: 15840

Ion	Ratio	Lower	Upper
78	100		
77	38.9	0.0	53.2

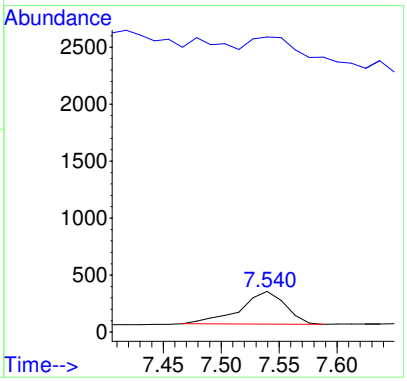


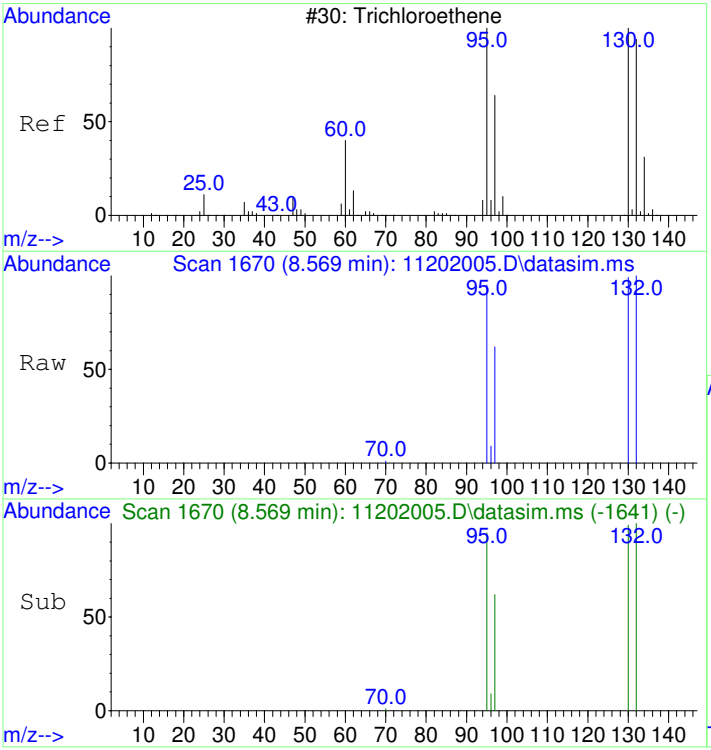


#10
1,2-Dichloroethane
Concen: 28.68 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 62 Resp: 781

Ion	Ratio	Lower	Upper
62	100		
64	118.1	2.3	62.3#

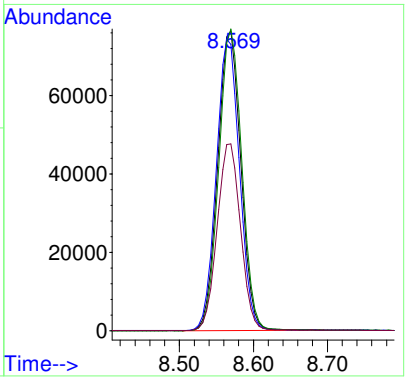


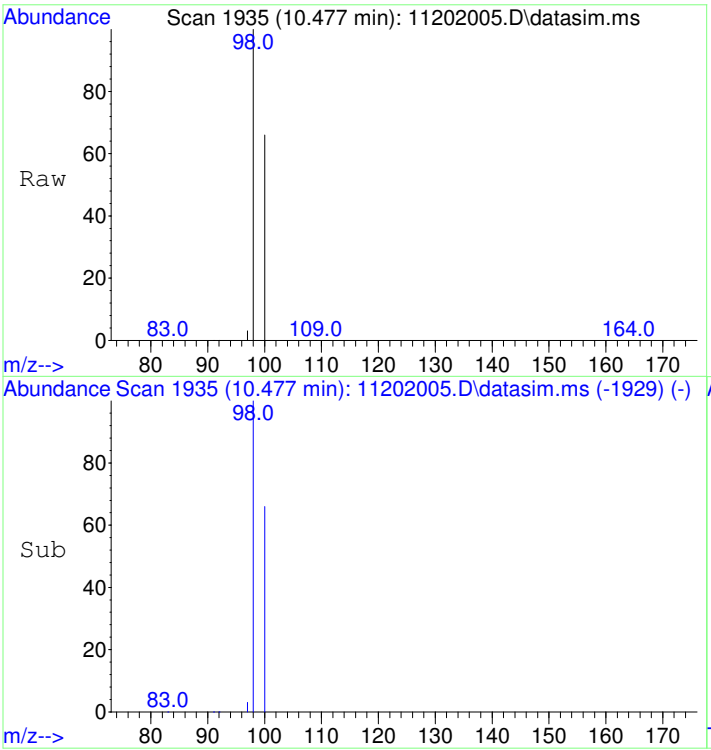


#11
Trichloroethene
Concen: 7232.89 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:130 Resp: 166117

Ion	Ratio	Lower	Upper
130	100		
95	97.6	60.7	120.7
132	99.8	76.0	116.0
97	62.6	38.6	78.6

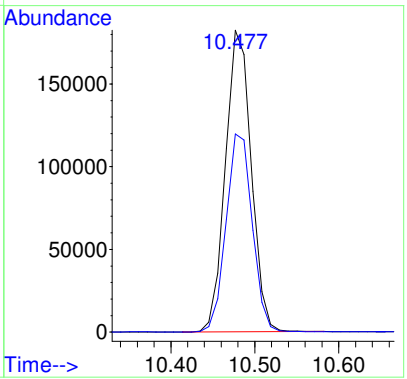


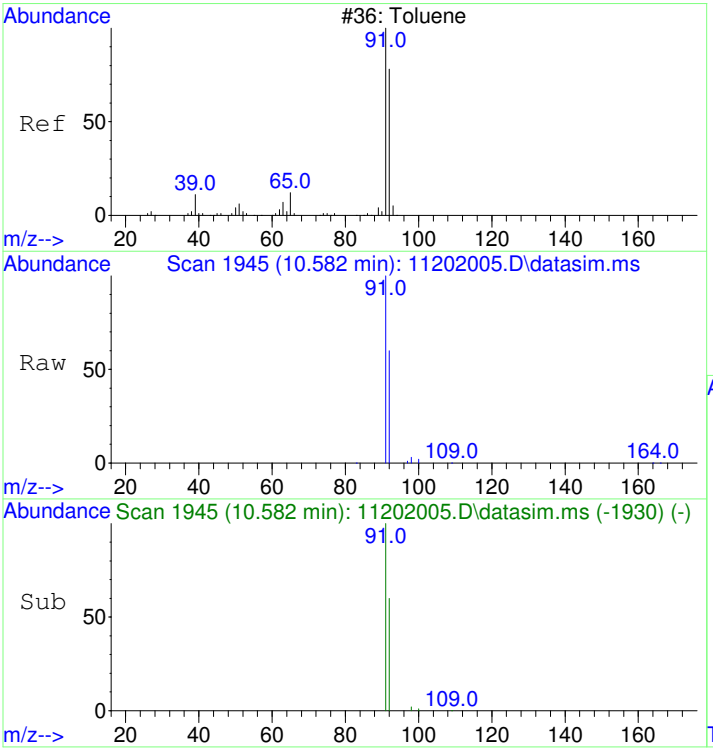


#12
Toluene-d8
Concen: 4427.68 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 98 Resp: 389139

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

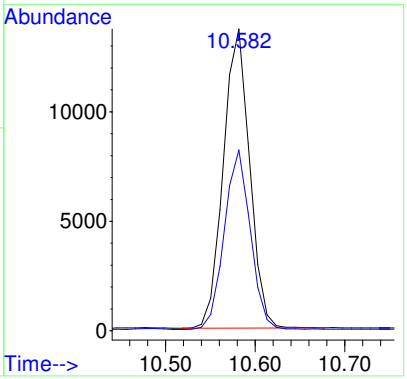


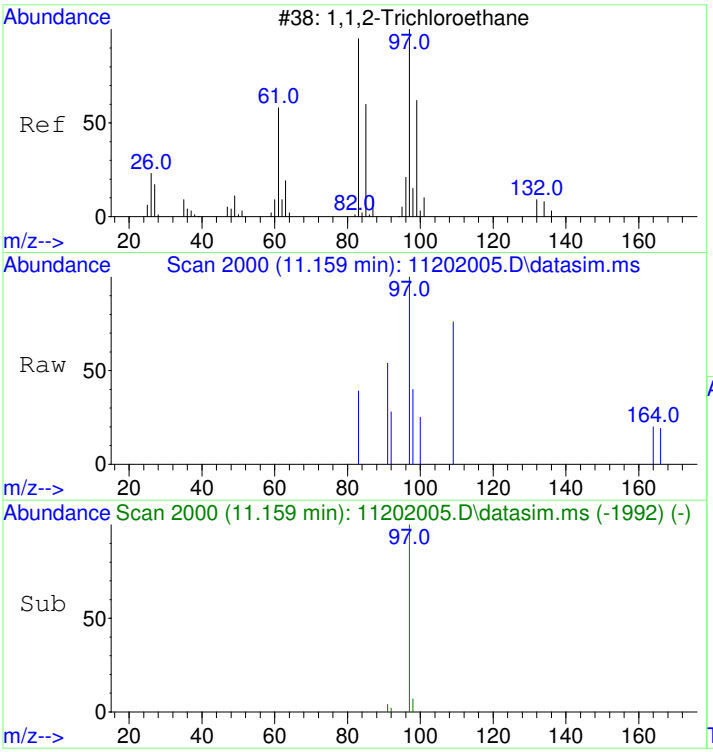


#13
Toluene
Concen: 249.41 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 27946

Ion	Ratio	Lower	Upper
91	100		
92	59.3	29.9	89.9

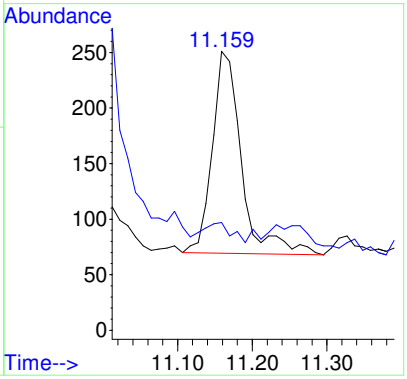




#14
1,1,2-Trichloroethane
Concen: 20.15 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 97 Resp: 492

Ion	Ratio	Lower	Upper
97	100		
83	9.3	51.2	111.2#



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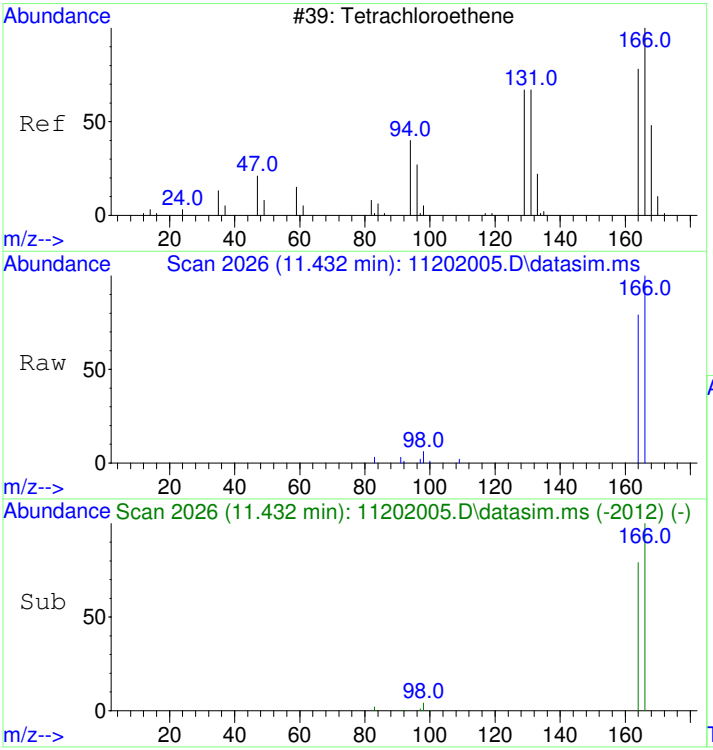
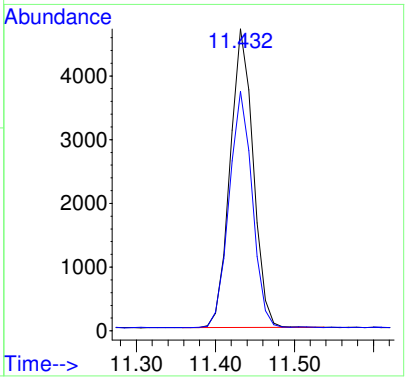
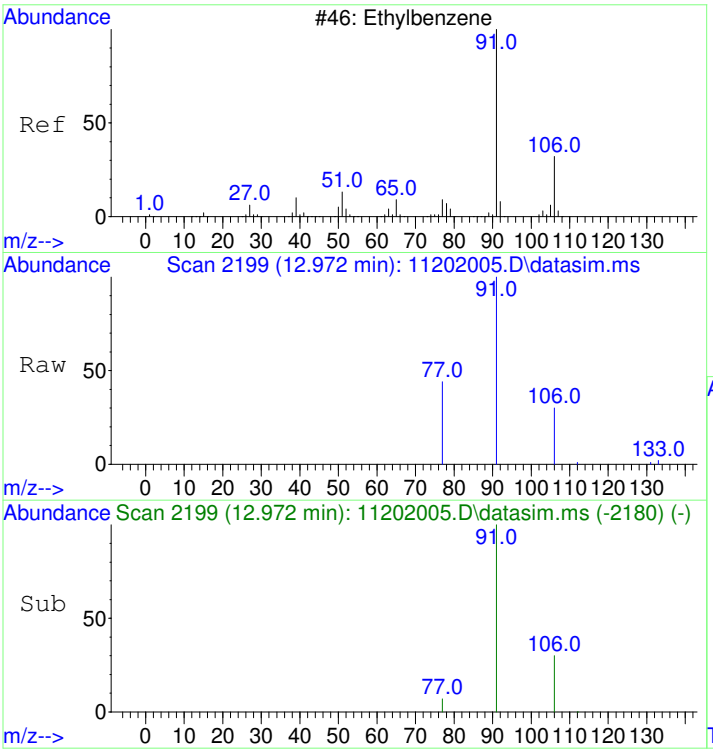


#15
Tetrachloroethene
Concen: 293.06 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:166 Resp: 9503

Ion	Ratio	Lower	Upper
166	100		
164	79.0	47.8	107.8

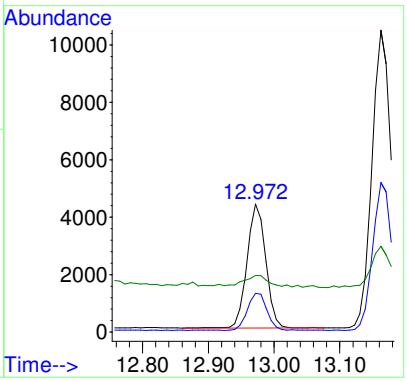


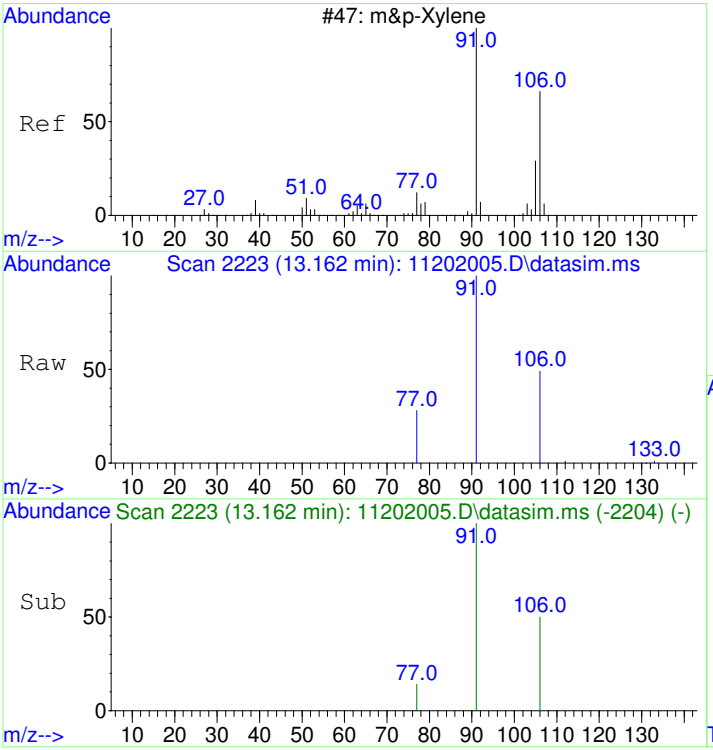


#18
Ethylbenzene
Concen: 62.31 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 8498

Ion	Ratio	Lower	Upper
91	100		
106	31.2	3.0	63.0
77	13.2	0.0	38.2

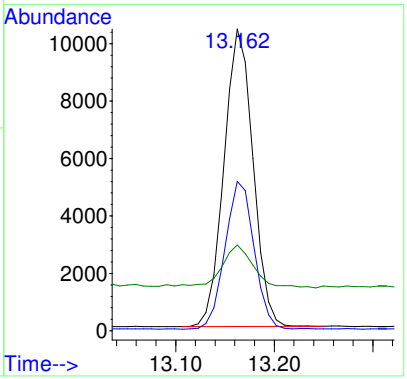


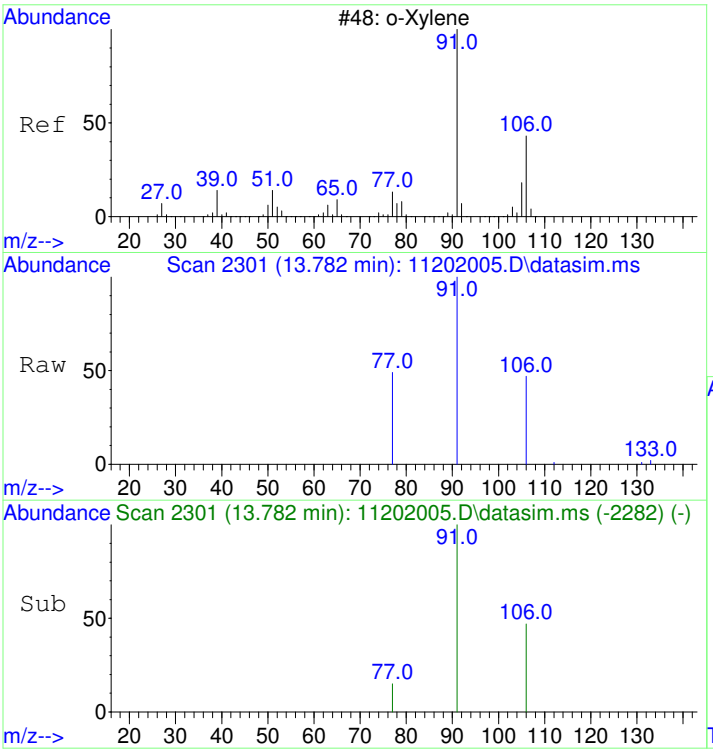


#19
m&p-Xylene
Concen: 198.69 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 21179

Ion	Ratio	Lower	Upper
91	100		
106	49.7	22.2	82.2
77	16.0	0.0	42.4

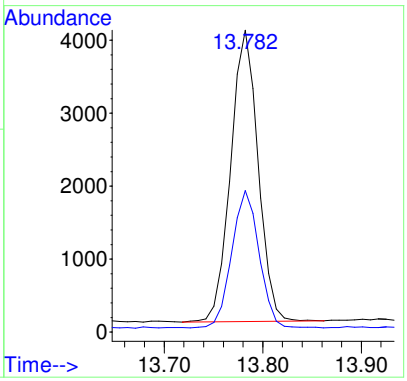


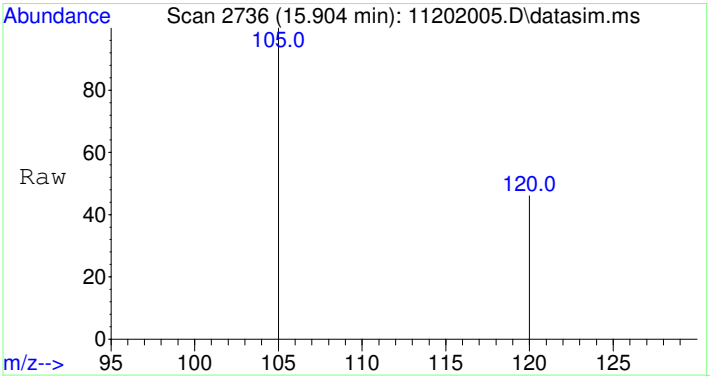


#20
o-Xylene
Concen: 67.79 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 7720

Ion	Ratio	Lower	Upper
91	100		
106	47.0	19.2	79.2

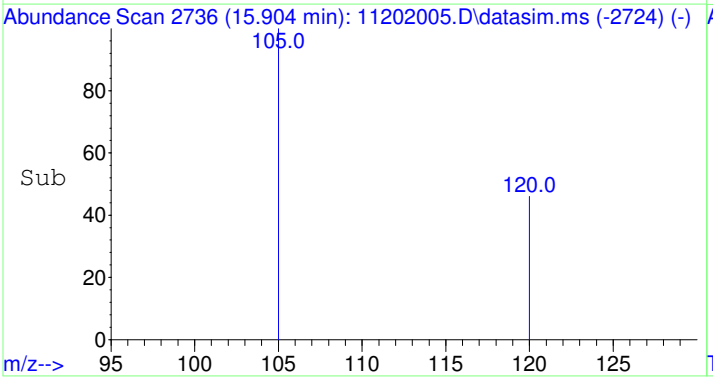


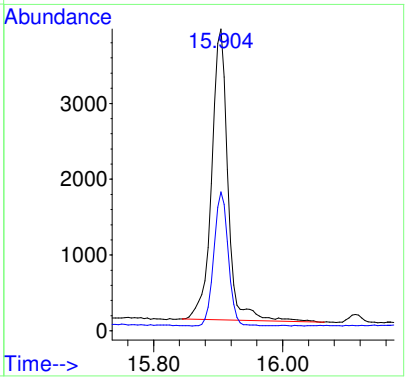


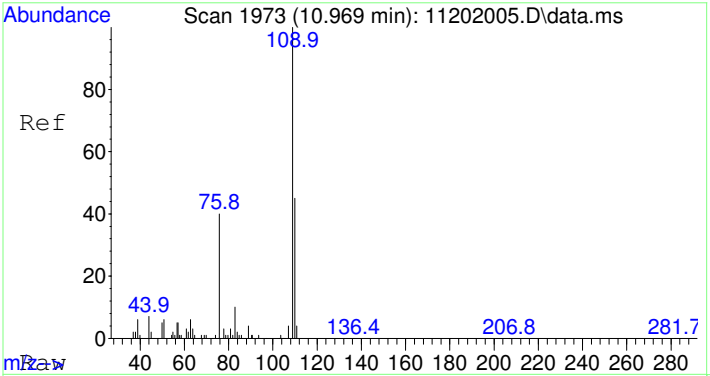
#23
1,2,4-Trimethylbenzene
Concen: 53.56 ug/L
RT: 15.904 min Scan# 2736
Delta R.T. 0.004 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:105 Resp: 6743

Ion	Ratio	Lower	Upper
105	100		
120	40.4	17.2	77.2



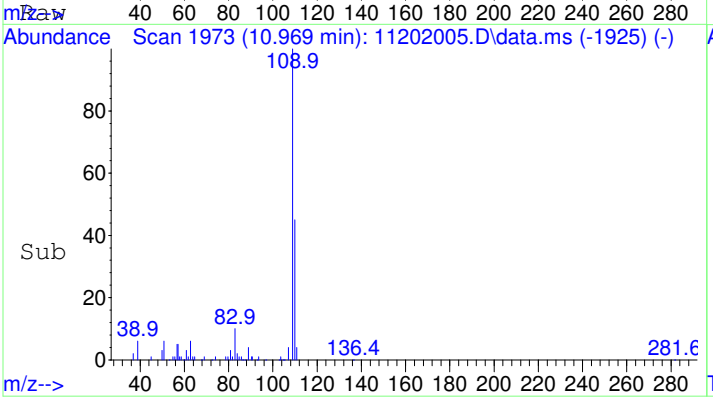


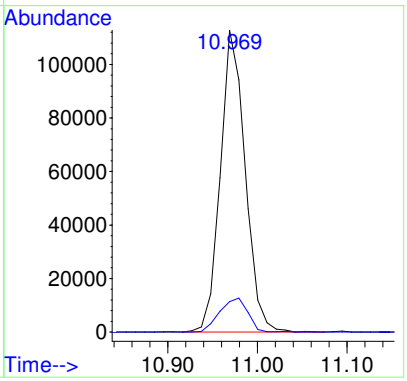


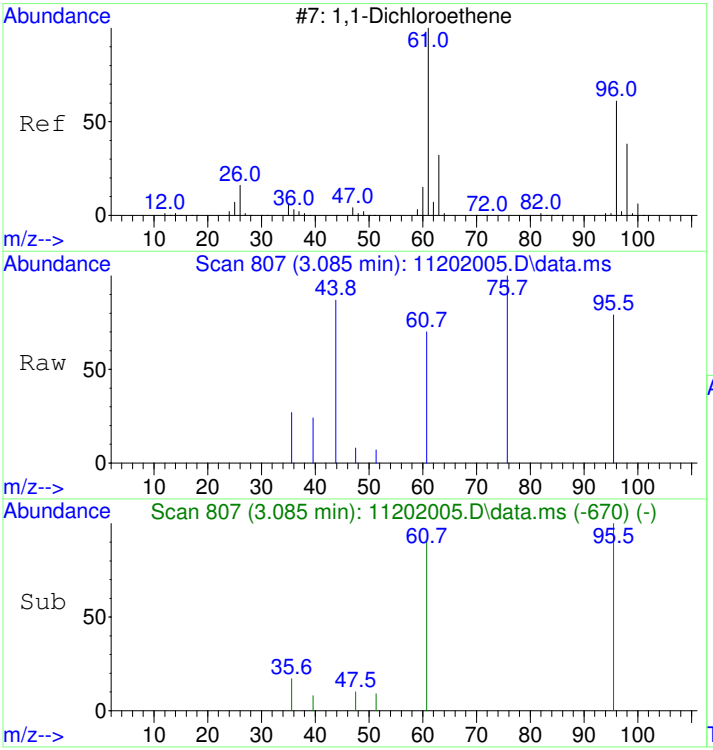
#25
2-Fluorotoluene SCAN
Concen: 4958.82 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:109 Resp: 217022

Ion	Ratio	Lower	Upper
109	100		
83	12.8	0.0	43.8



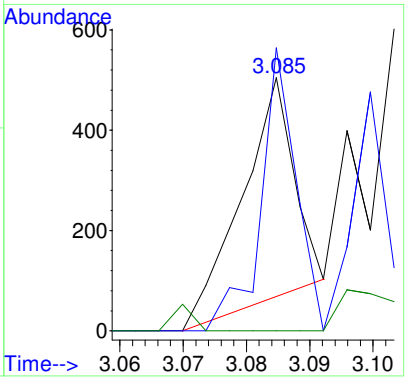


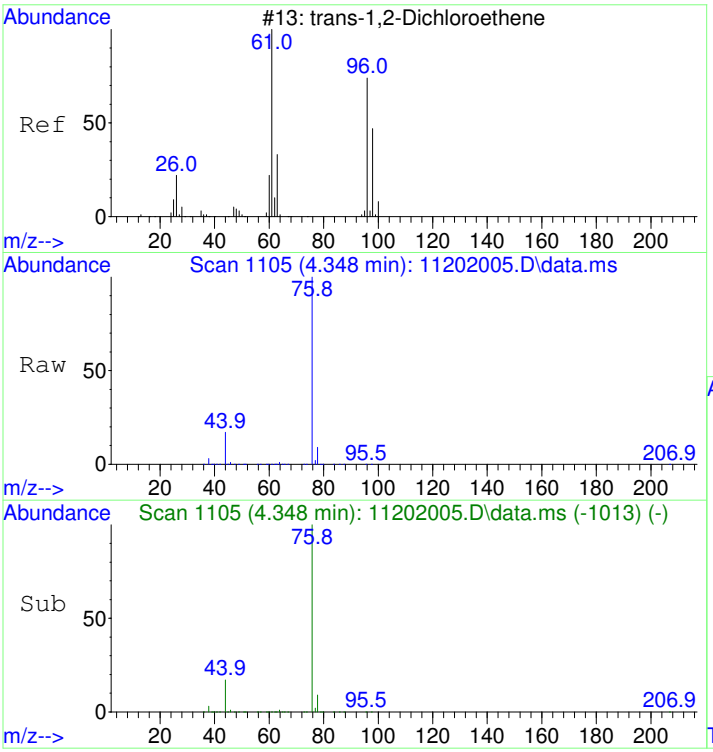


#26
1,1-Dichloroethene SCAN
Concen: 27.87 ug/L
RT: 3.085 min Scan# 807
Delta R.T. 0.007 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 61 Resp: 259

Ion	Ratio	Lower	Upper
61	100		
96	84.6	33.1	93.1
98	0.0	11.2	71.2#

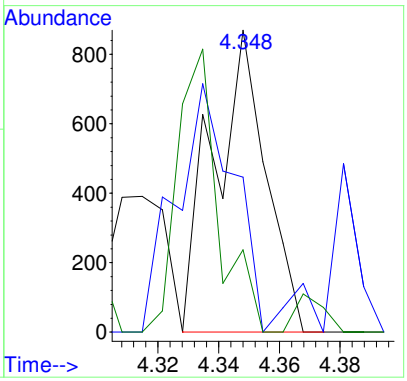


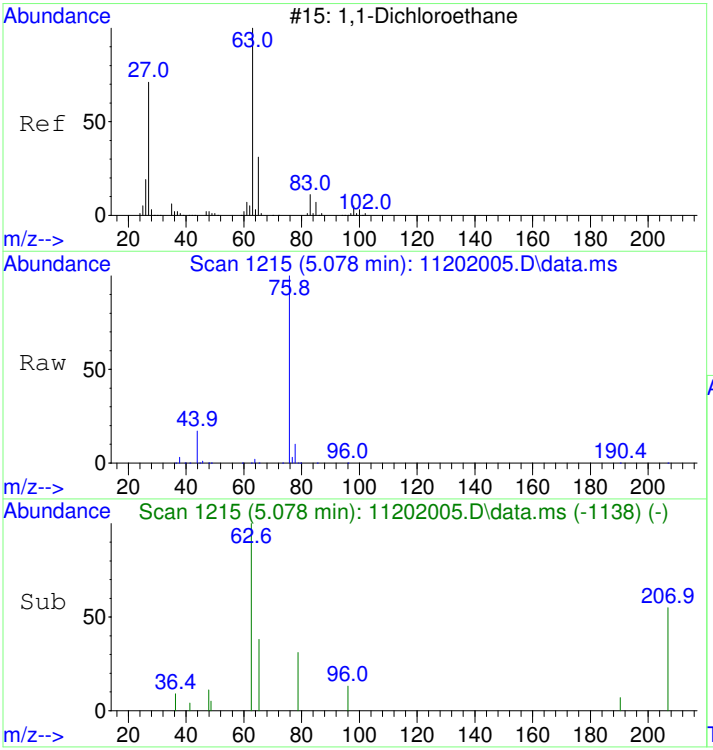


#27
trans-1,2-Dichloroethene SCAN
Concen: 91.03 ug/L
RT: 4.348 min Scan# 1105
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 61 Resp: 1047

Ion	Ratio	Lower	Upper
61	100		
96	83.3	49.0	109.0
98	72.7	20.5	80.5

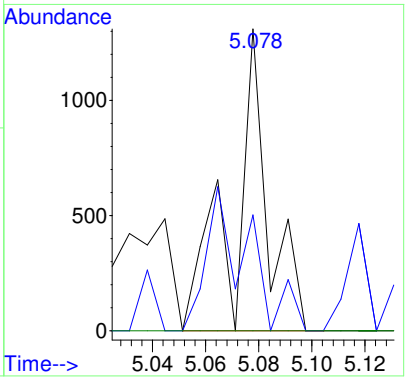


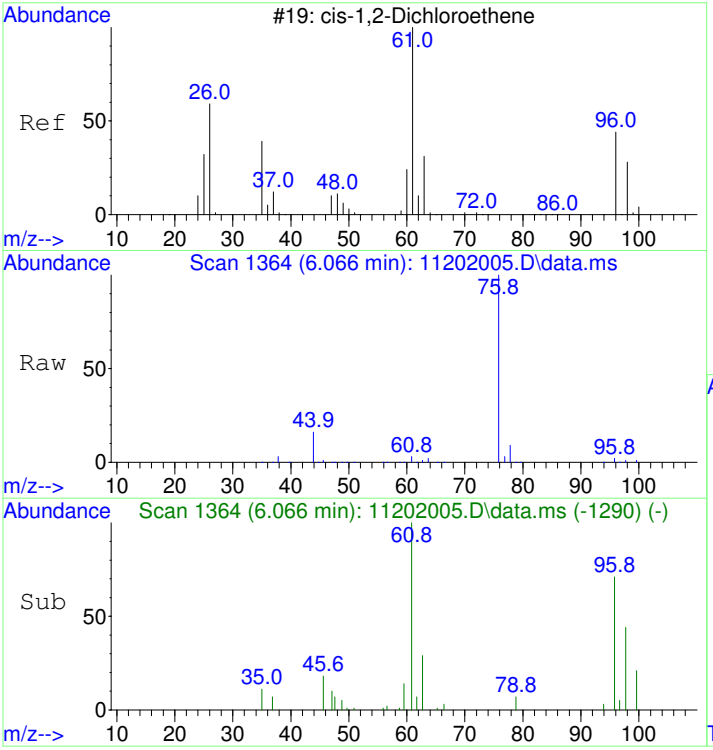


#28
1,1-Dichloroethane SCAN
Concen: 89.25 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. 0.013 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 63 Resp: 1188

Ion	Ratio	Lower	Upper
63	100		
65	57.5	1.3	61.3
83	0.0	0.0	45.9

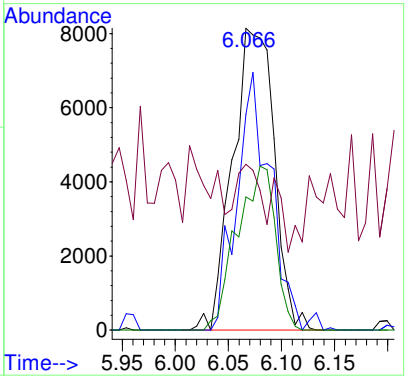


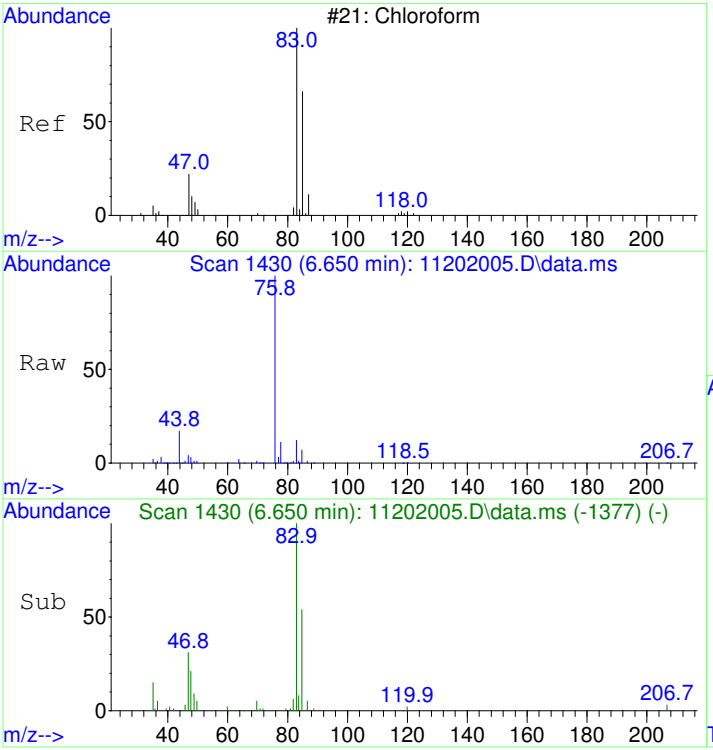


#29
cis-1,2-Dichloroethene SCAN
Concen: 1557.70 ug/L
RT: 6.066 min Scan# 1364
Delta R.T. -0.007 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 61 Resp: 22214

Ion	Ratio	Lower	Upper
61	100		
96	70.2	39.9	99.9
98	50.0	13.5	73.5
64	14.3	4.5	64.5

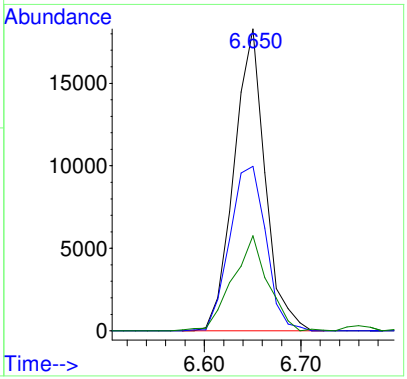


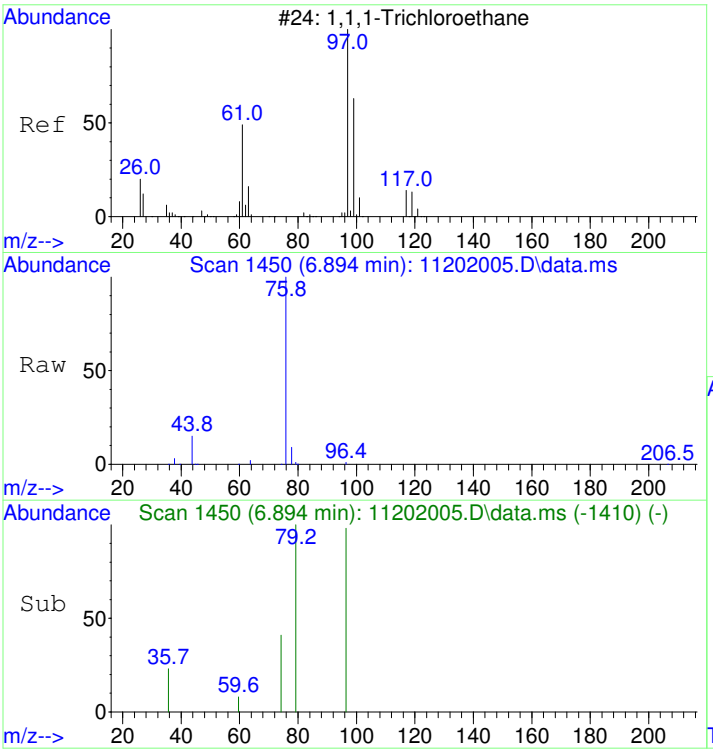


#30
Chloroform SCAN
Concen: 2648.80 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 83 Resp: 40971

Ion	Ratio	Lower	Upper
83	100		
85	63.5	34.6	94.6
47	36.0	0.0	53.4

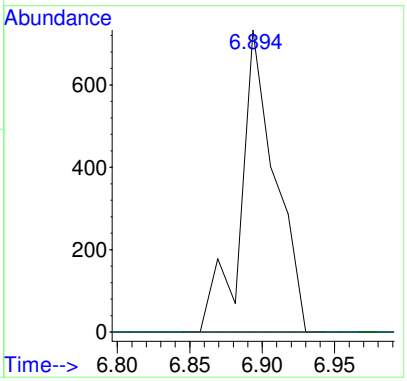


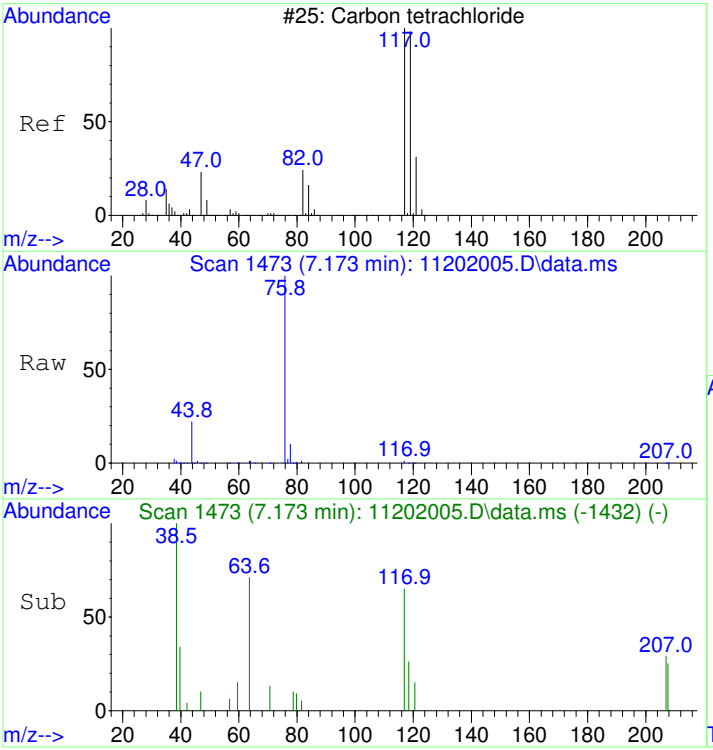


#31
1,1,1-Trichloroethane SCAN
Concen: 86.41 ug/L
RT: 6.894 min Scan# 1450
Delta R.T. -0.012 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 97 Resp: 1218

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	0.0	18.0	78.0#

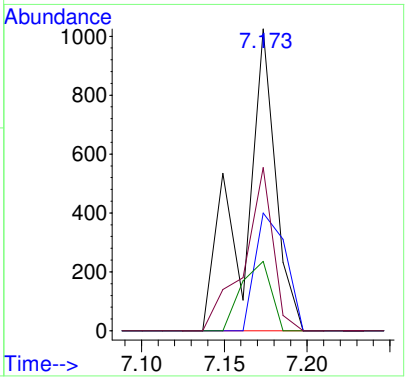


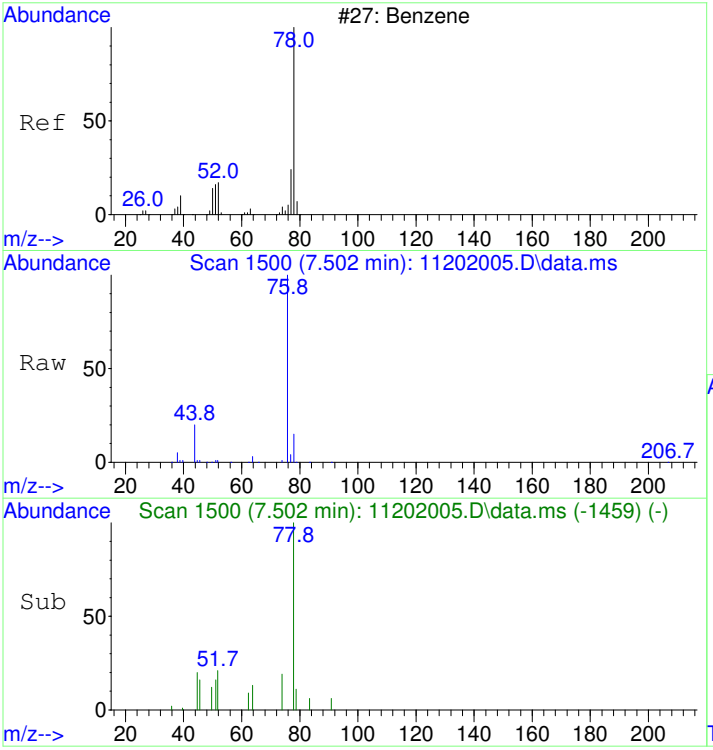


#32
Carbon tetrachloride SCAN
Concen: 94.13 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:117 Resp: 1384

Ion	Ratio	Lower	Upper
117	100		
119	37.5	75.5	135.5#
121	21.4	0.0	58.8
82	48.8	0.0	59.2

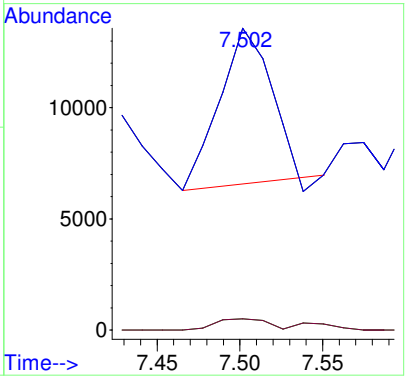


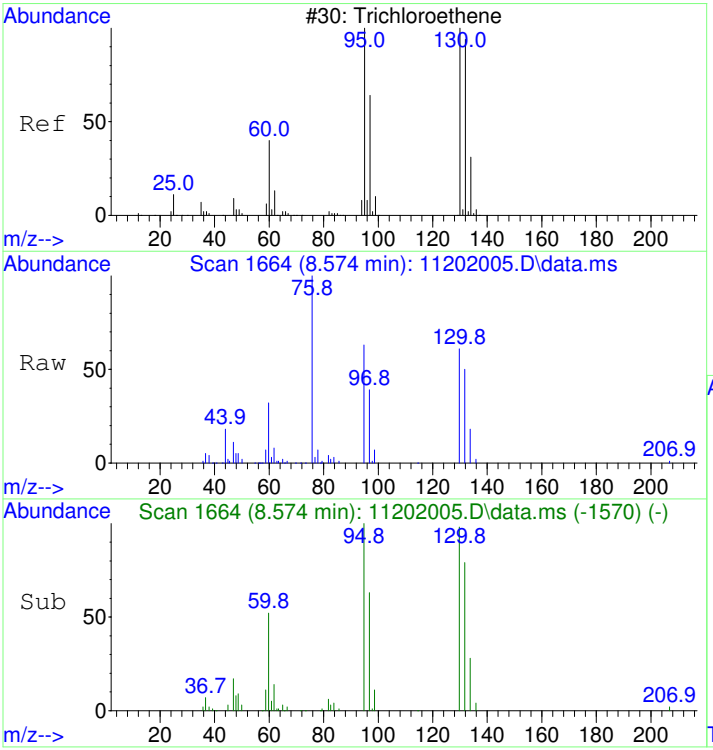


#33
Benzene SCAN
Concen: 392.73 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 78 Resp: 15242

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	6.8	0.0	47.9
51	6.8	0.0	44.1

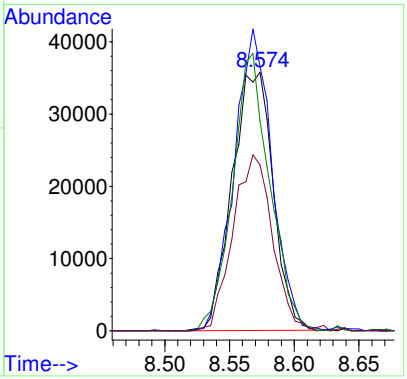


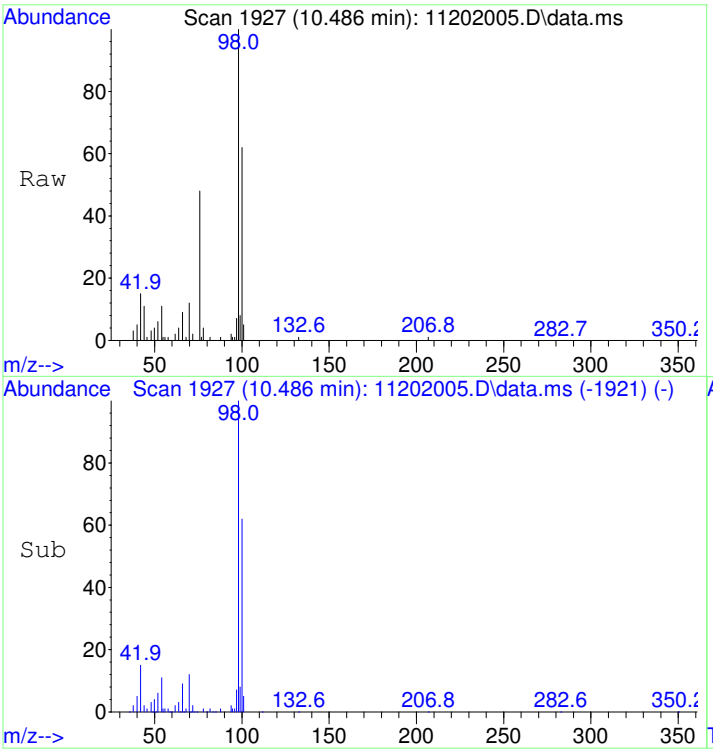


#35
Trichloroethene SCAN
Concen: 7396.70 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:130 Resp: 78888

Ion	Ratio	Lower	Upper
130	100		
95	107.4	60.5	120.5
132	97.6	59.6	119.6
97	66.3	28.2	88.2

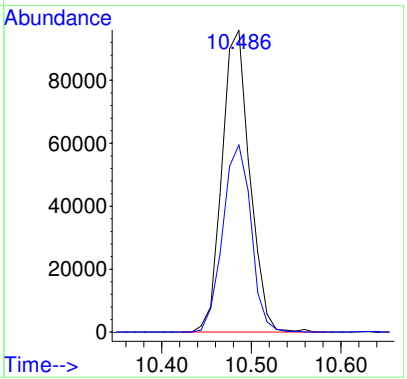


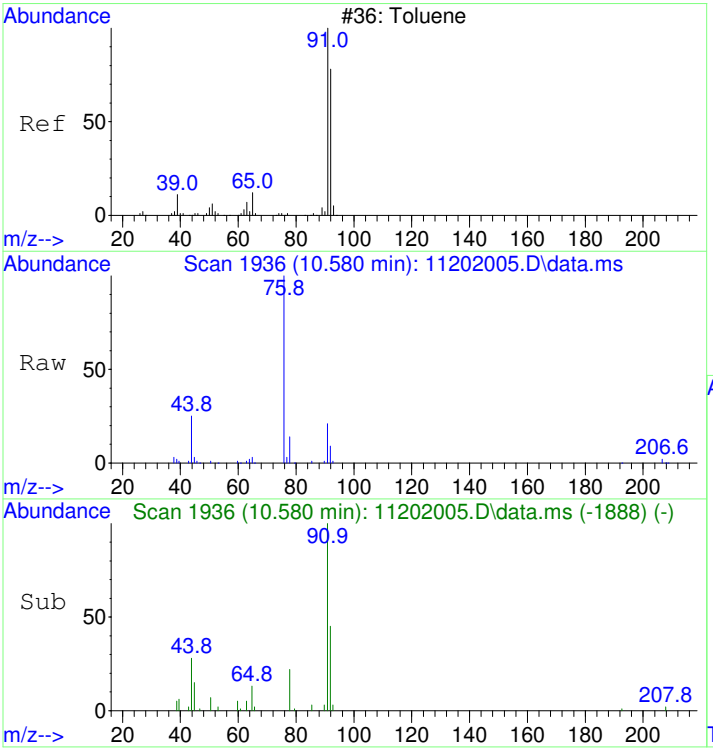


#36
Toluene-d8 SCAN
Concen: 4830.53 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 98 Resp: 206750

Ion	Ratio	Lower	Upper
98	100		
100	63.1	40.0	100.0

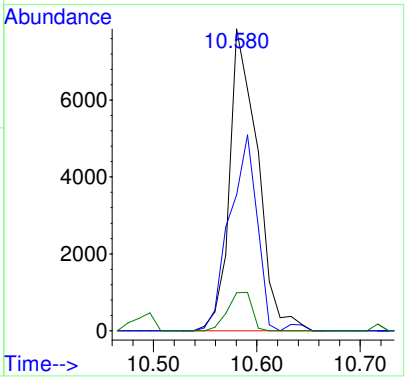


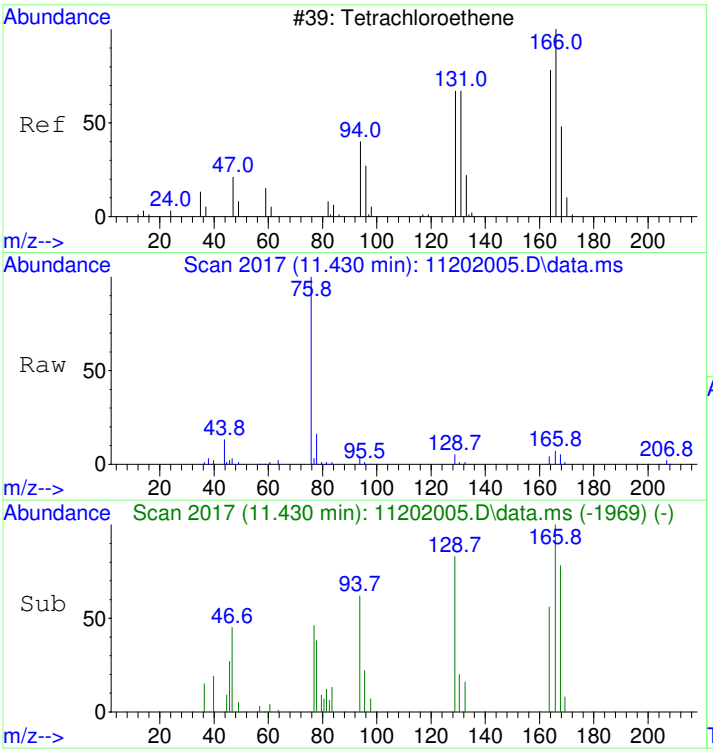


#37
Toluene SCAN
Concen: 270.49 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 14826

Ion	Ratio	Lower	Upper
91	100		
92	62.8	28.3	88.3
65	11.0	0.0	41.0

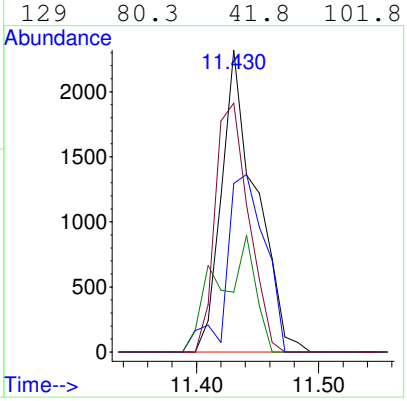


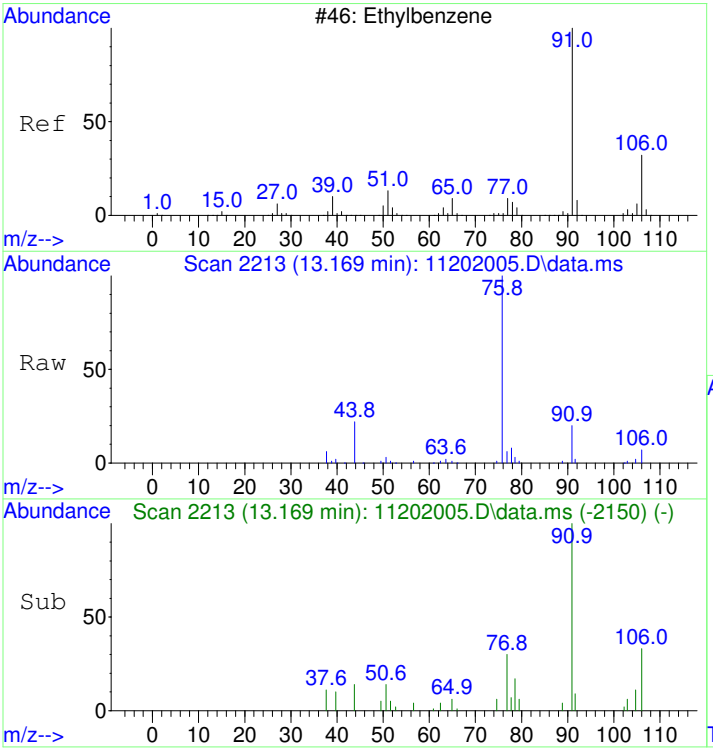


#39
Tetrachloroethene SCAN
Concen: 346.28 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:166 Resp: 4560

Ion	Ratio	Lower	Upper
166	100		
164	65.8	50.9	110.9
131	41.8	38.7	98.7
129	80.3	41.8	101.8

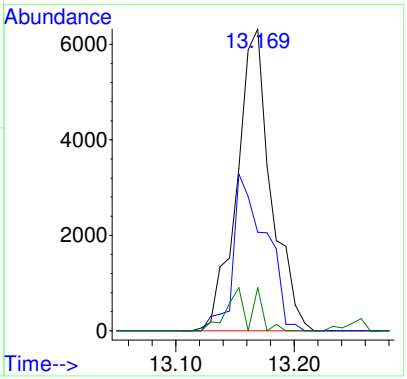


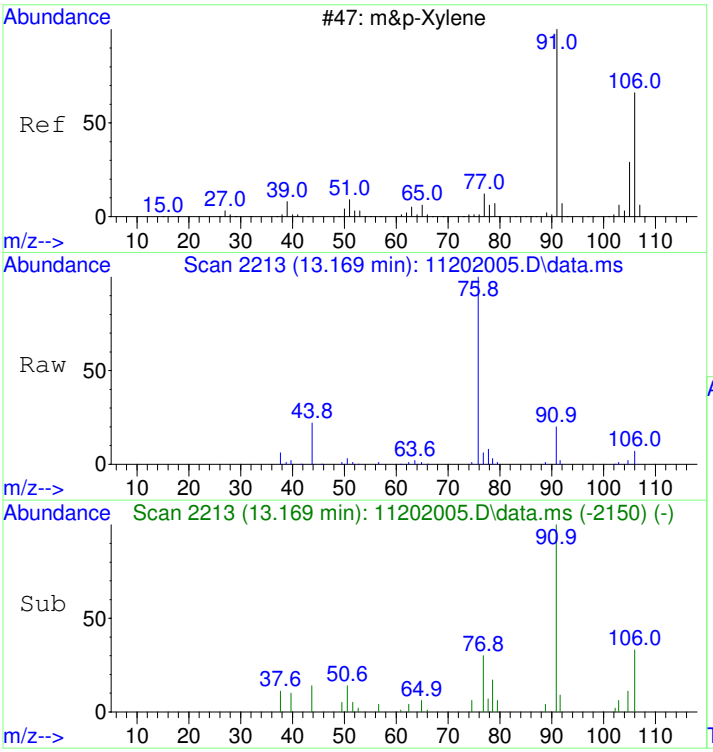


#42
Ethylbenzene SCAN
Concen: 126.66 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 12648

Ion	Ratio	Lower	Upper
91	100		
106	50.0	23.1	83.1
51	10.8	0.0	40.1

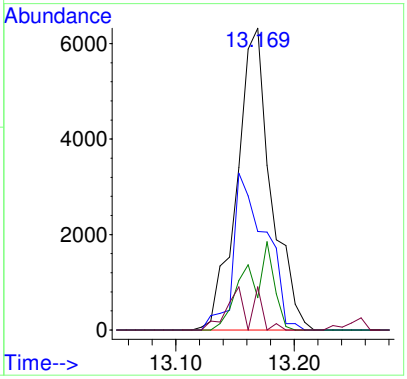


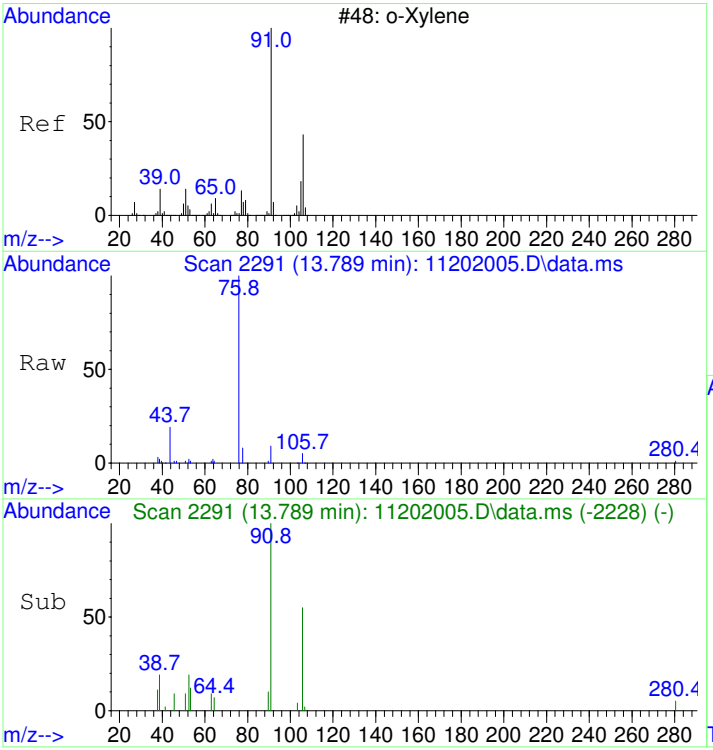


#43
m&p-Xylene SCAN
Concen: 126.66 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 12648

Ion	Ratio	Lower	Upper
91	100		
106	0.0	23.1	83.1#
105	23.9	0.0	54.7
51	0.0	0.0	40.1

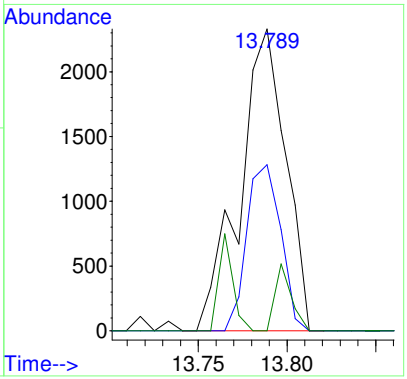


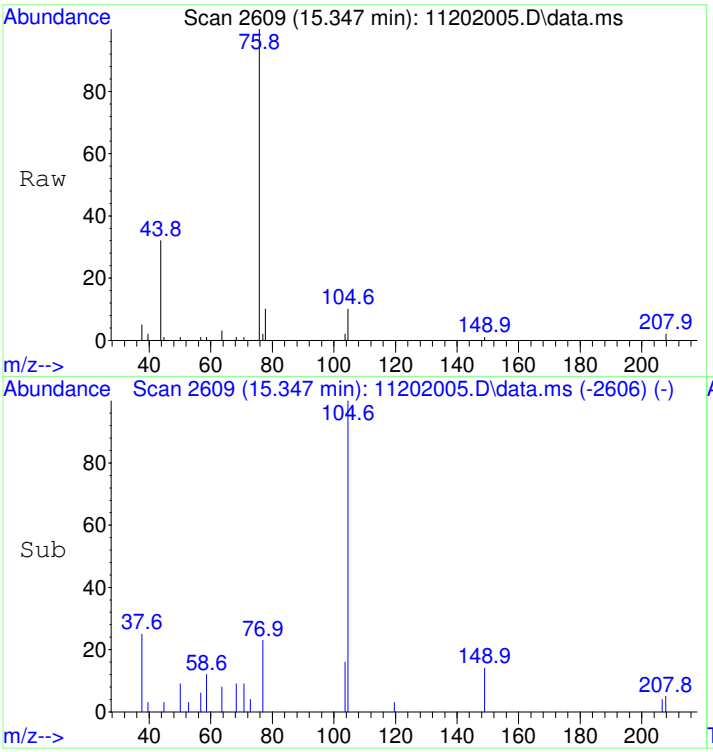


#44
o-Xylene SCAN
Concen: 78.50 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion: 91 Resp: 4196

Ion	Ratio	Lower	Upper
91	100		
106	40.8	18.0	78.0
105	7.8	0.0	56.6

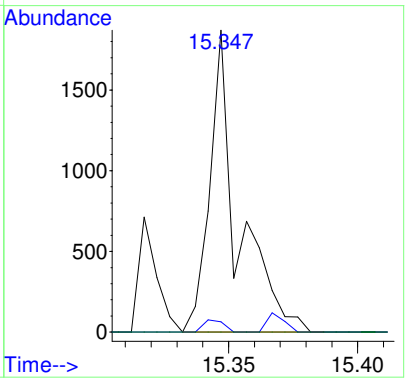


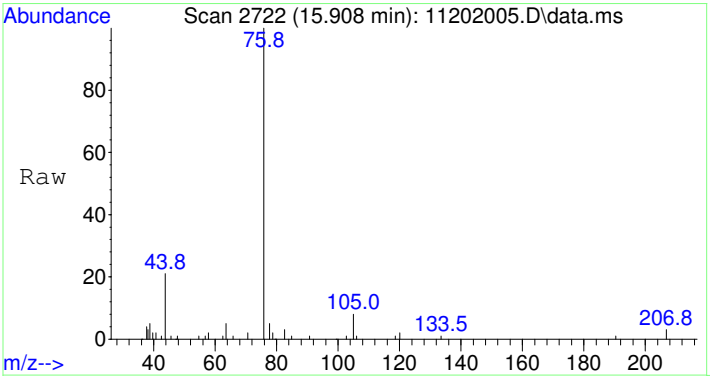


#46
1,3,5-Trimethylbenzene SCAN
Concen: 25.22 ug/L
RT: 15.347 min Scan# 2609
Delta R.T. 0.004 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:105 Resp: 1421

Ion	Ratio	Lower	Upper
105	100		
120	3.9	18.3	78.3#
119	0.0	0.0	43.1

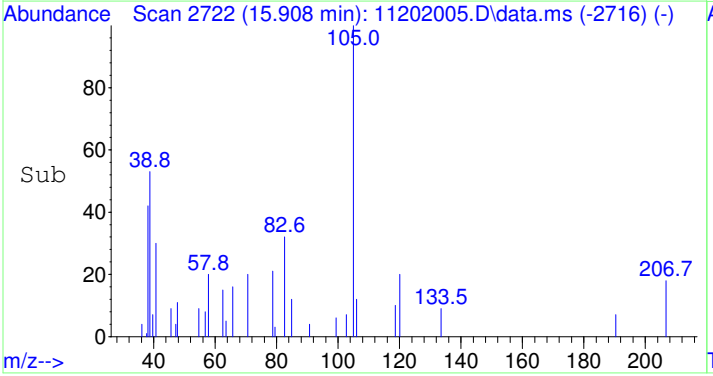


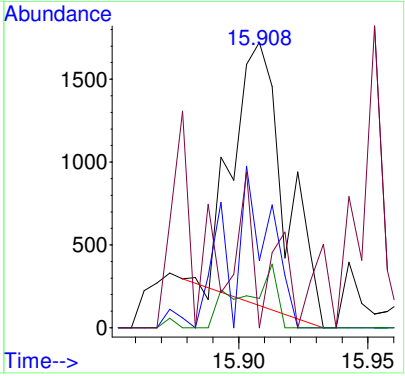


#47
1,2,4-Trimethylbenzene SCAN
Concen: 37.94 ug/L
RT: 15.908 min Scan# 2722
Delta R.T. 0.004 min
Lab File: 11202005.D
Acq: 20 Nov 2020 11:15 am

Tgt Ion:105 Resp: 2187

Ion	Ratio	Lower	Upper
105	100		
120	33.2	16.9	76.9
119	15.7	0.0	41.9
77	8.4	0.0	42.3





2011017-19RE1

Quantitation Report (QT Reviewed)

Table of Contents

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202006.D
Acq On : 20 Nov 2020 11:39 am
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-19RE1
Misc : 10X DL (180-20)
ALS Vial : 6
Multiplier: 10

report TCE

Quant Time: Nov 23 14:35:50 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	491213	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	411289	4277.12	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 85.54%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	2267m	115.58	ug/L	
3] trans-1,2-Dichloroethene	4.342	61	3418	150.82	ug/L	95
4] 1,1-Dichloroethane	5.066	63	2529	89.65	ug/L	91
5] cis-1,2-Dichloroethene	6.074	61	46386	1557.72	ug/L	99
6] Chloroform	6.639	83	41478	1360.87	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1945	58.76	ug/L	97
9] Benzene	7.503	78	2046	24.51	ug/L #	1
11] Trichloroethene	8.569	130	184016	7322.95	ug/L	95
13] Toluene	10.582	91	3804	31.03	ug/L	99
15] Tetrachloroethene	11.432	166	8999	253.64	ug/L	99
25) 2-Fluorotoluene SCAN	10.969	109	229285	4788.32	ug/L	98
26) 1,1-Dichloroethene SCAN	3.081	61	308	30.29	ug/L #	26
27) trans-1,2-Dichloroethe...	4.341	61	2684	213.29	ug/L #	56
28) 1,1-Dichloroethane SCAN	5.058	63	736	50.54	ug/L #	33
29) cis-1,2-Dichloroethene...	6.080	61	26127	1674.48	ug/L	85
30) Chloroform SCAN	6.650	83	21192	1252.21	ug/L #	75
31) 1,1,1-Trichloroethane ...	6.918	97	2308	149.65	ug/L #	31
33) Benzene SCAN	7.526	78	24885	586.04	ug/L	92
35) Trichloroethene SCAN	8.568	130	86331	7398.21	ug/L	88
36) Toluene-d8 SCAN	10.486	98	191801	4095.75	ug/L	99
37) Toluene SCAN	10.591	91	2307	38.47	ug/L	66
39) Tetrachloroethene SCAN	11.441	166	5021	348.49	ug/L #	34

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

M.I. Performed By:
LLH at 2:36 pm, Nov 23, 2020

M.I. Approved By:
ZR at 4:18 pm, Nov 23, 2020

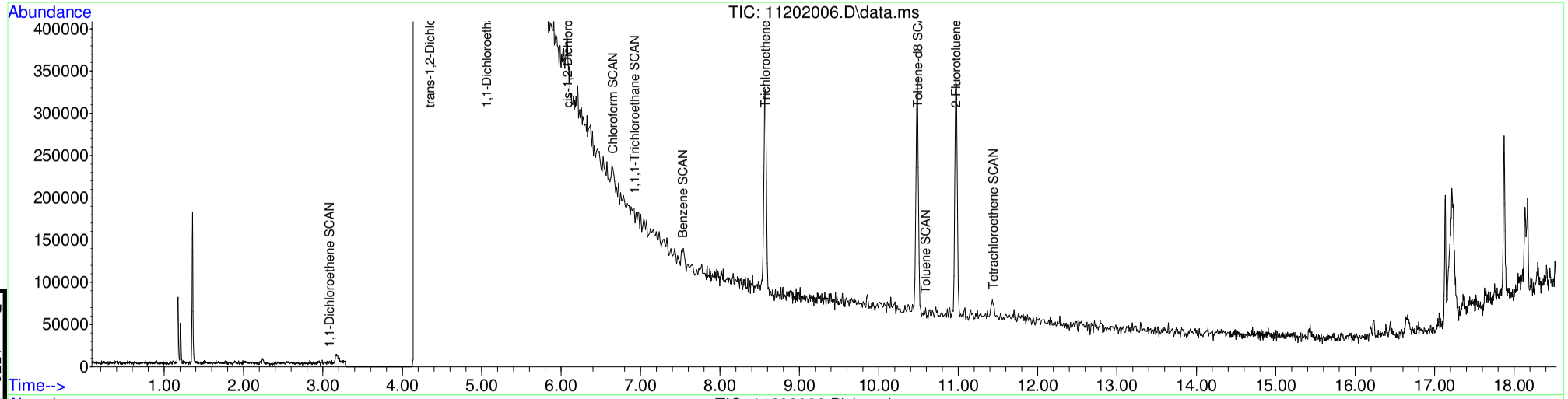
REVIEWED
By LLH at 2:36 pm, Nov 23, 2020

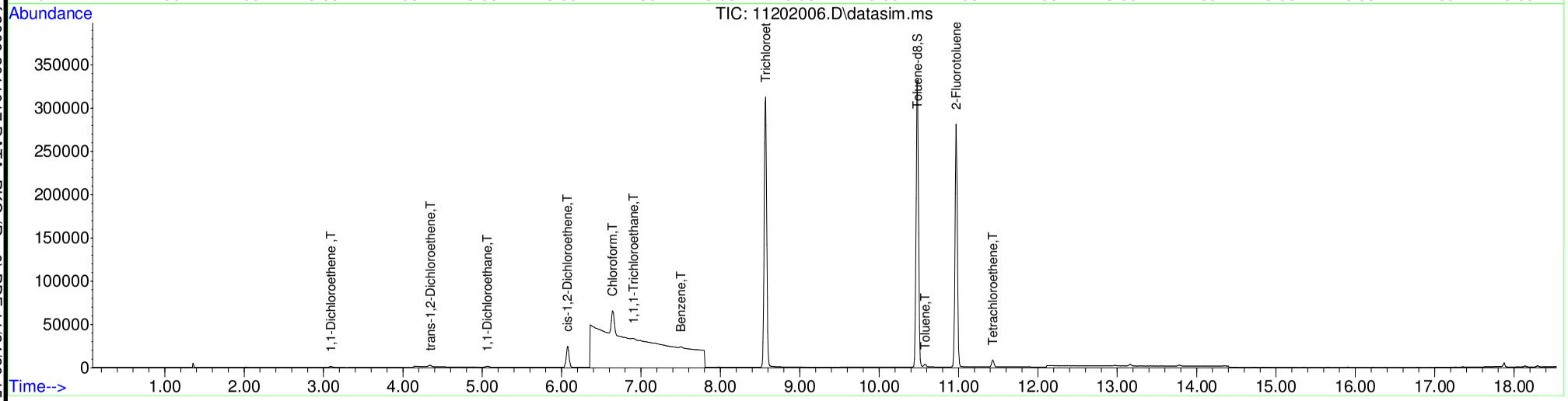
Quantitation Report (QT Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202006.D
Acq On : 20 Nov 2020 11:39 am
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-19RE1
Misc : 10X DL (180-20)
ALS Vial : 6
Multiplier: 10

Quant Time: Nov 23 14:35:50 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M





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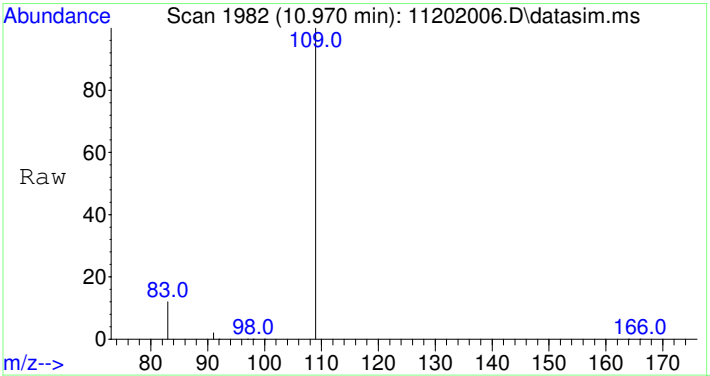
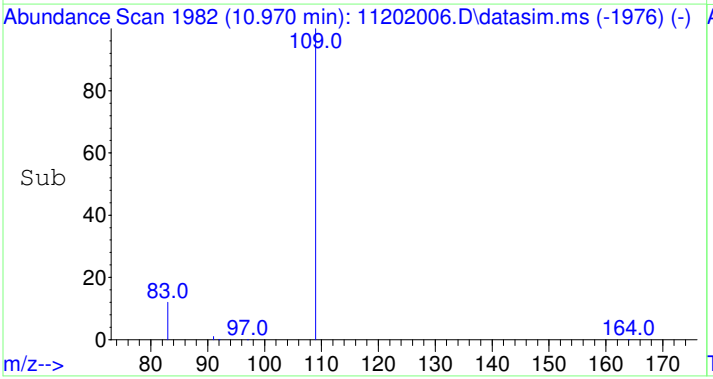
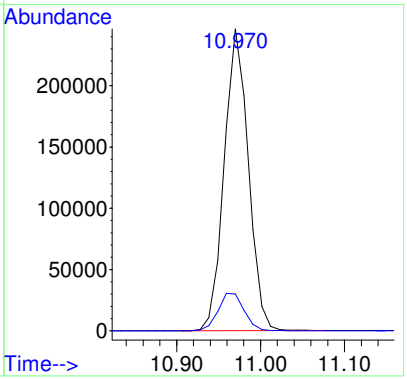


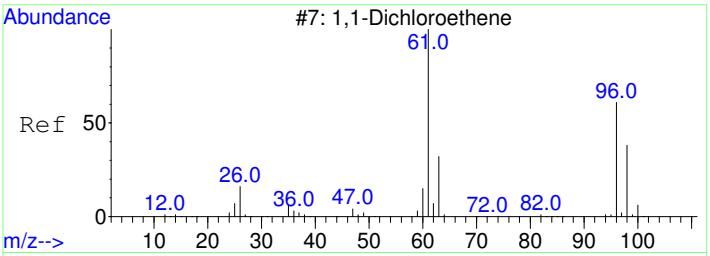
#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion:109 Resp: 491213

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3



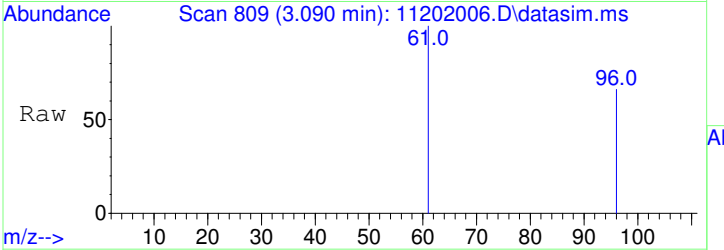


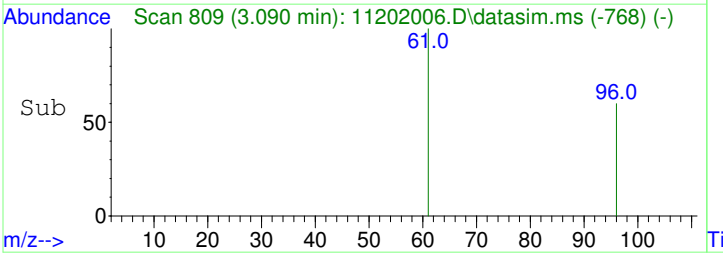


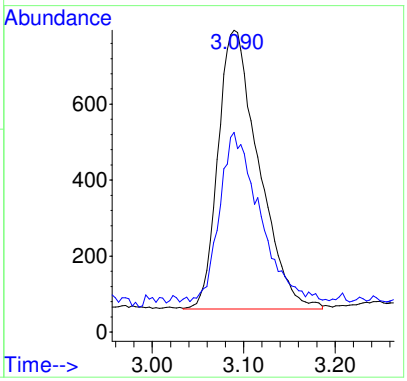
#2
1,1-Dichloroethene
Concen: 115.58 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

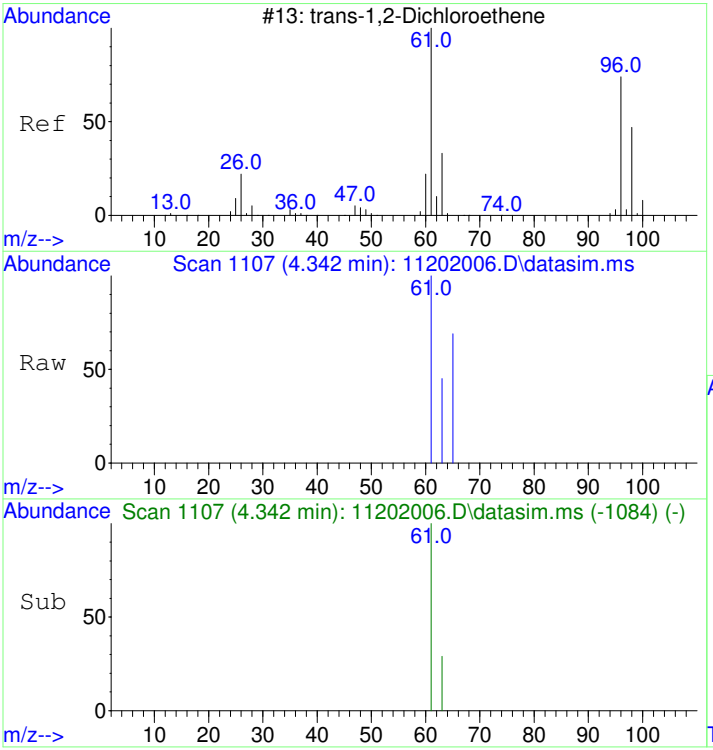
Tgt Ion: 61 Resp: 2267

Ion	Ratio	Lower	Upper
61	100		
96	71.8	37.2	97.2





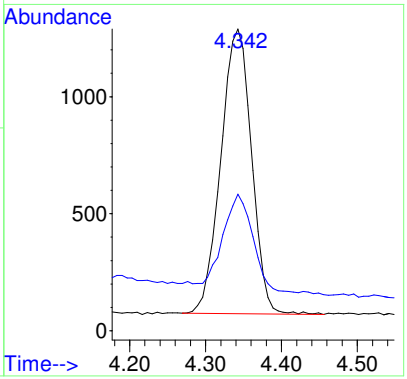


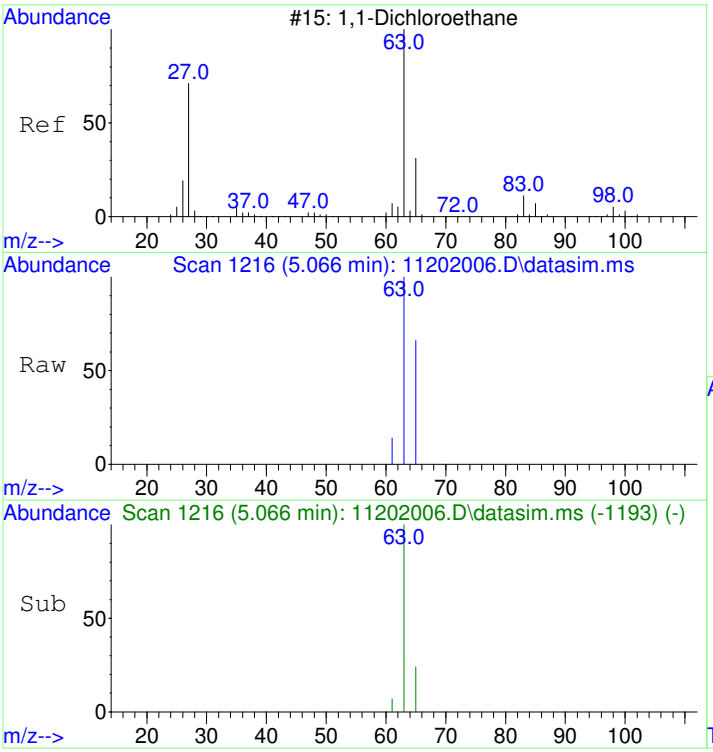


#3
trans-1,2-Dichloroethene
Concen: 150.82 ug/L
RT: 4.342 min Scan# 1107
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 61 Resp: 3418

Ion	Ratio	Lower	Upper
61	100		
63	35.1	2.4	62.4

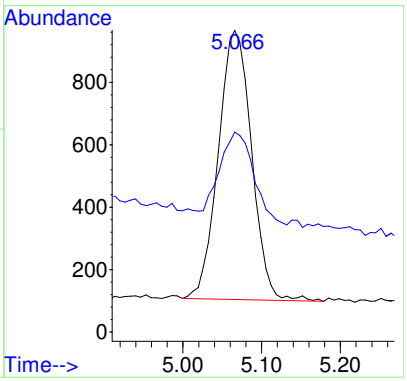


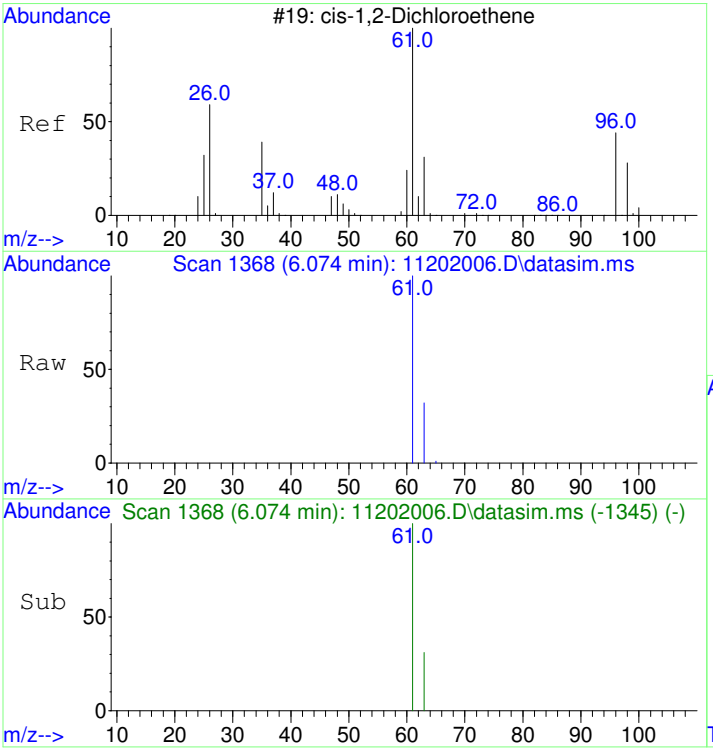


#4
1,1-Dichloroethane
Concen: 89.65 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 63 Resp: 2529

Ion	Ratio	Lower	Upper
63	100		
65	36.7	1.8	61.8

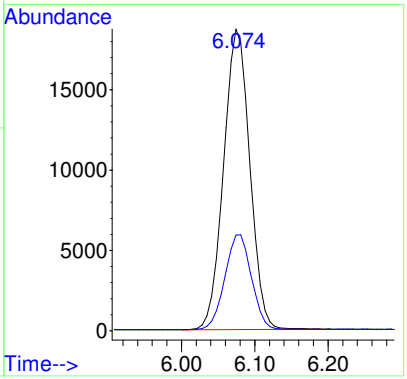


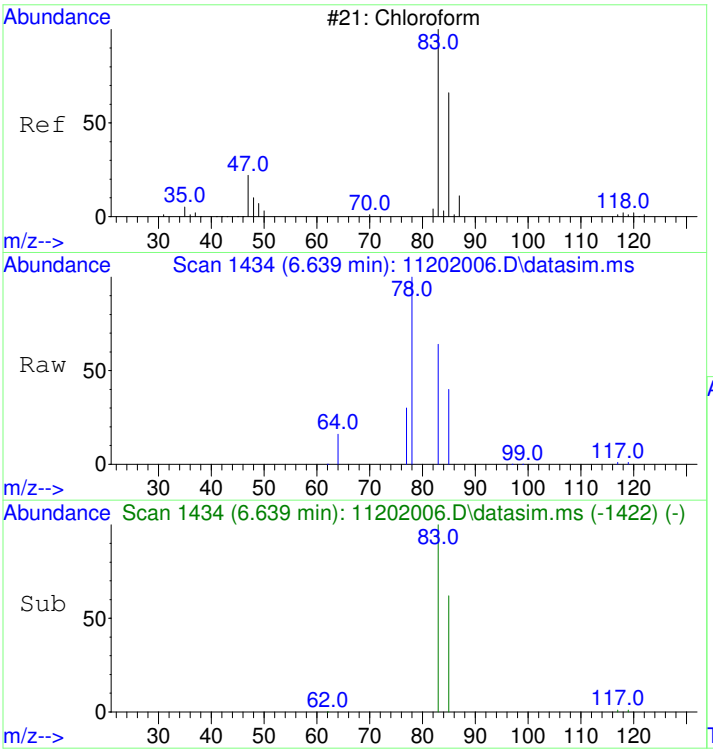


#5
cis-1,2-Dichloroethene
Concen: 1557.72 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 61 Resp: 46386

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

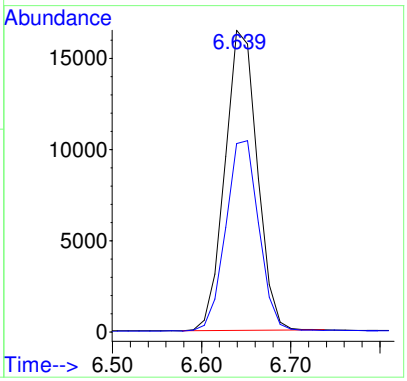


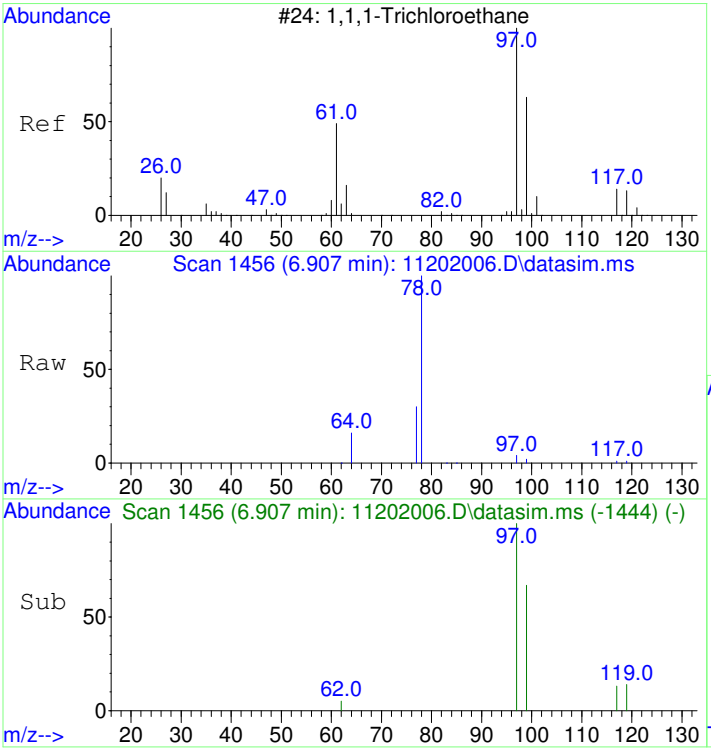


#6
Chloroform
Concen: 1360.87 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 83 Resp: 41478

Ion	Ratio	Lower	Upper
83	100		
85	64.4	35.1	95.1

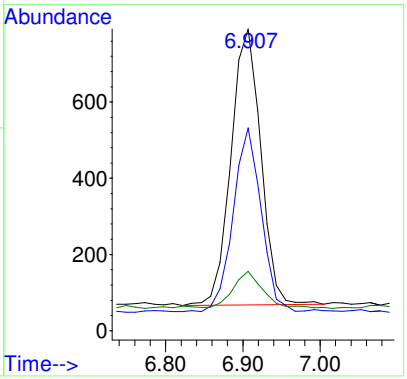


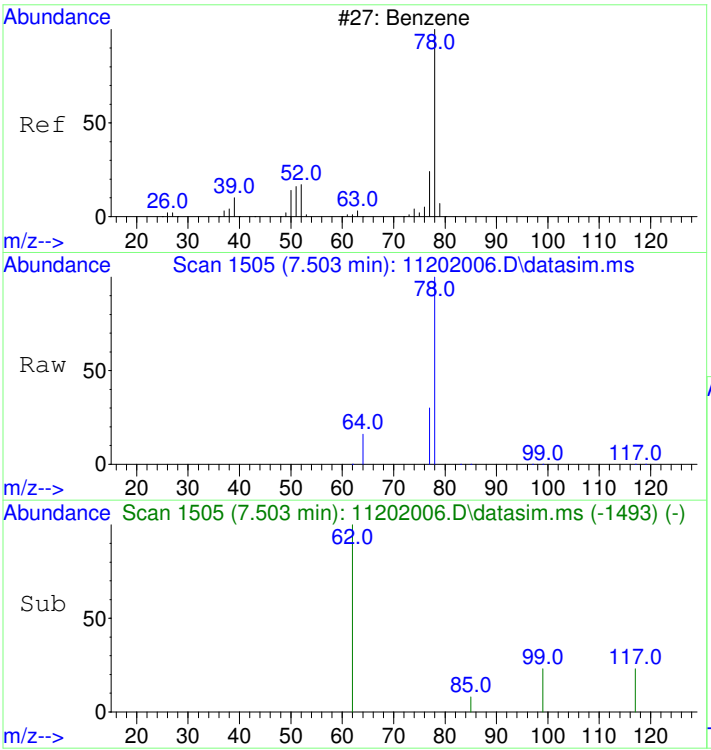


#7
1,1,1-Trichloroethane
Concen: 58.76 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 97 Resp: 1945

Ion	Ratio	Lower	Upper
97	100		
99	62.1	34.6	94.6
117	13.0	0.0	43.2

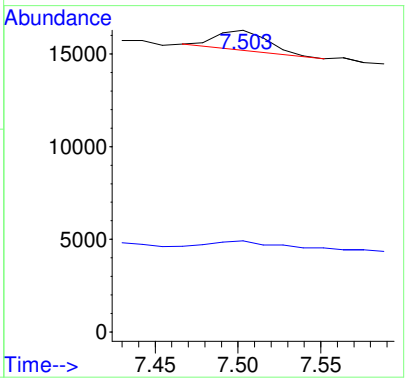


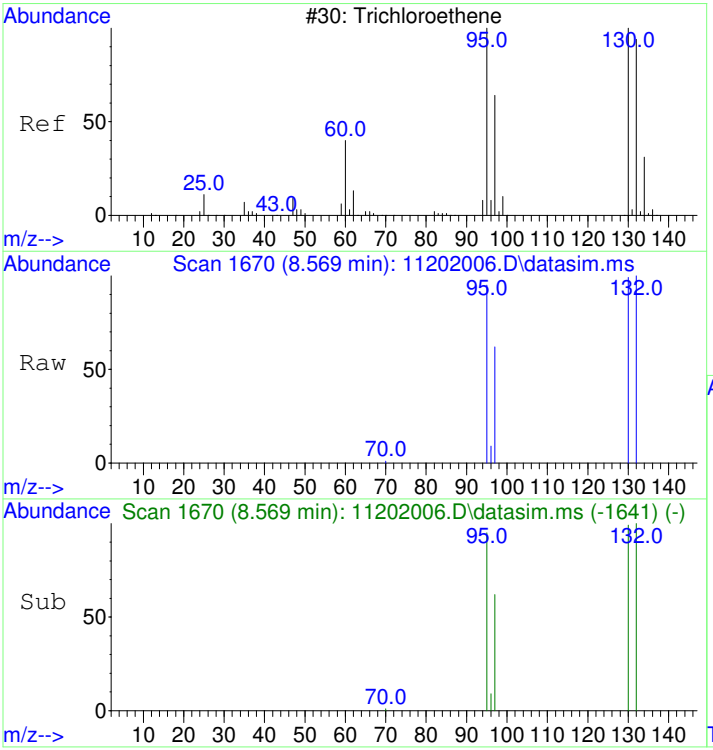


#9
Benzene
Concen: 24.51 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 78 Resp: 2046

Ion	Ratio	Lower	Upper
78	100		
77	123.3	0.0	53.2#

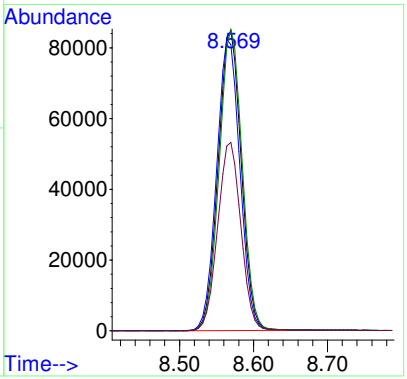


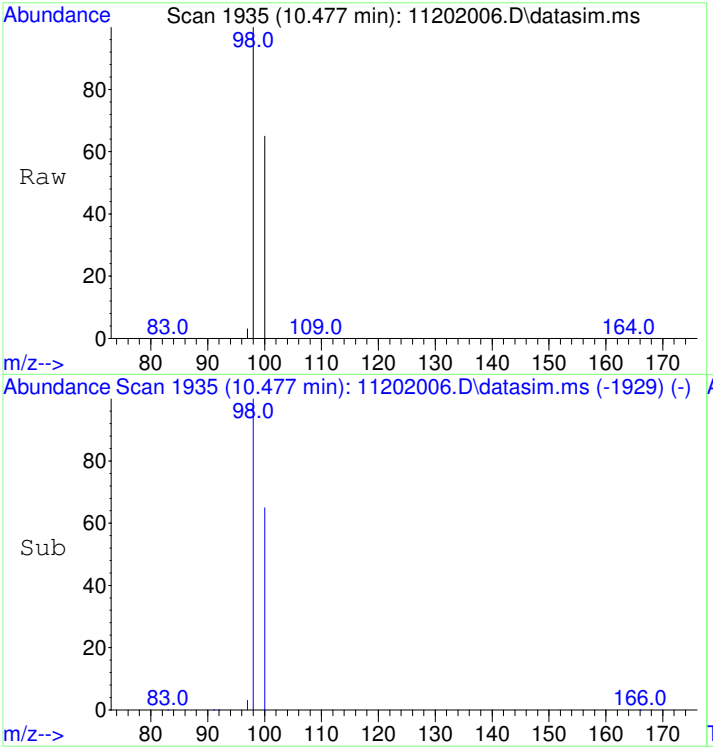


#11
Trichloroethene
Concen: 7322.95 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion:130 Resp: 184016

Ion	Ratio	Lower	Upper
130	100		
95	97.6	60.7	120.7
132	99.6	76.0	116.0
97	62.8	38.6	78.6

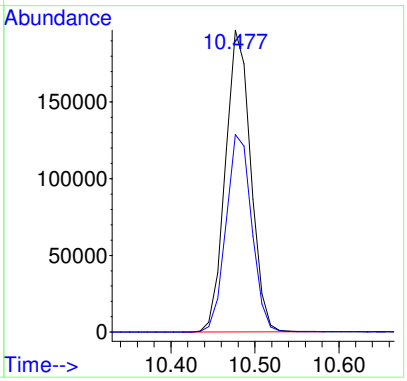


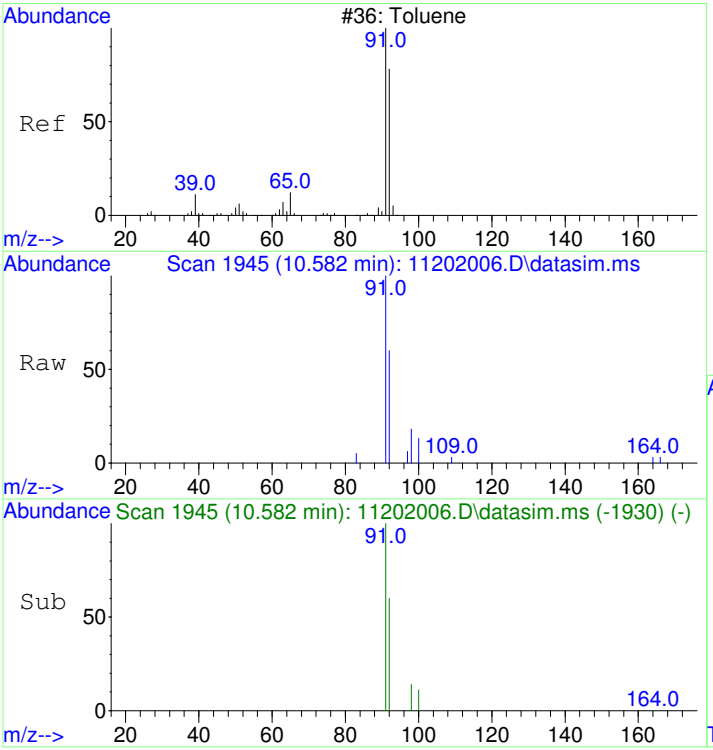


#12
Toluene-d8
Concen: 4277.12 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 98 Resp: 411289

Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1

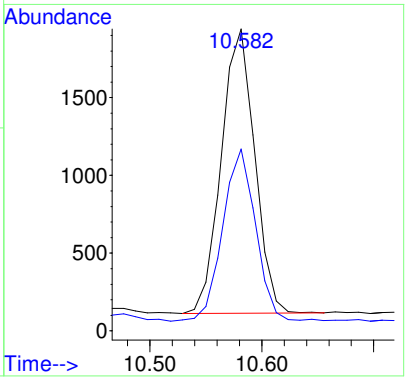


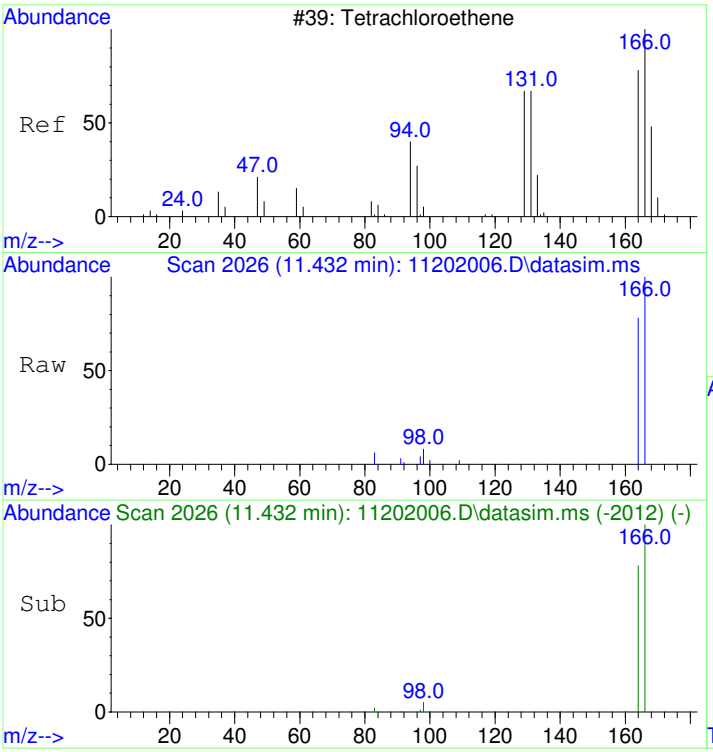


#13
Toluene
Concen: 31.03 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 91 Resp: 3804

Ion	Ratio	Lower	Upper
91	100		
92	59.0	29.9	89.9

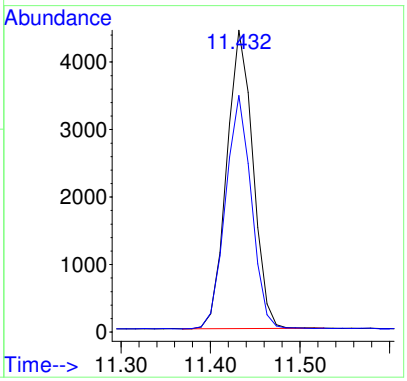


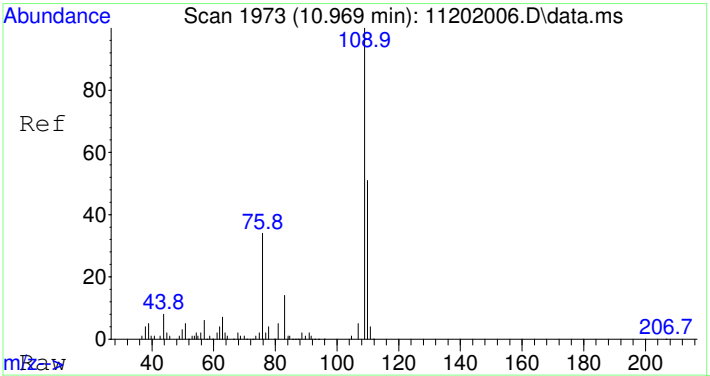


#15
Tetrachloroethene
Concen: 253.64 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion:166 Resp: 8999

Ion	Ratio	Lower	Upper
166	100		
164	77.2	47.8	107.8

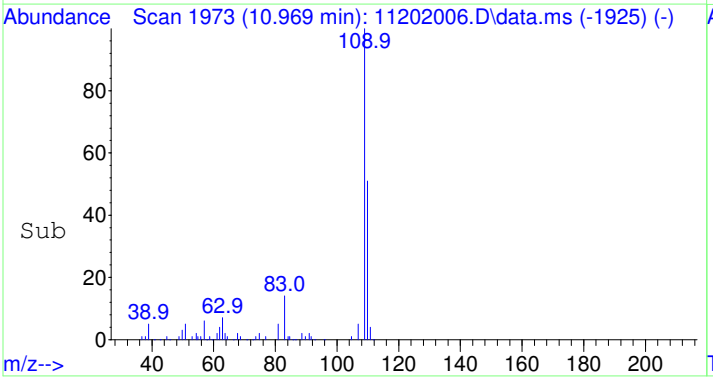


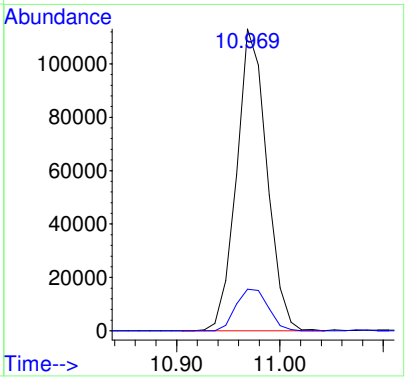


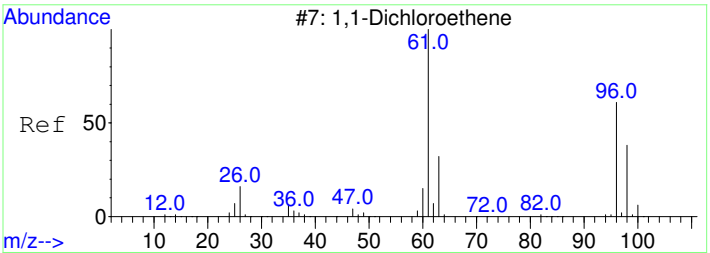
#25
2-Fluorotoluene SCAN
Concen: 4788.32 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion:109 Resp: 229285

Ion	Ratio	Lower	Upper
109	100		
83	14.7	0.0	43.8



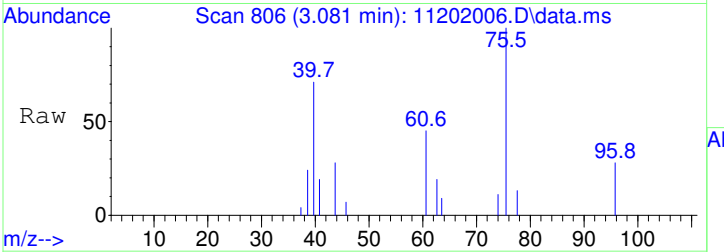


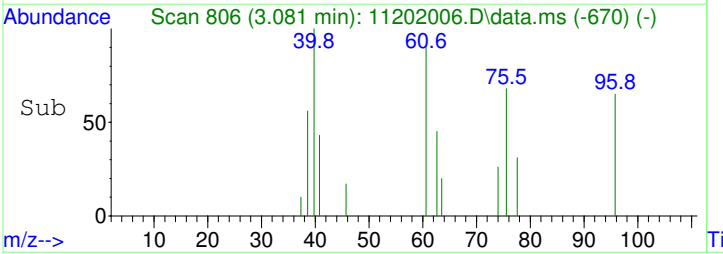


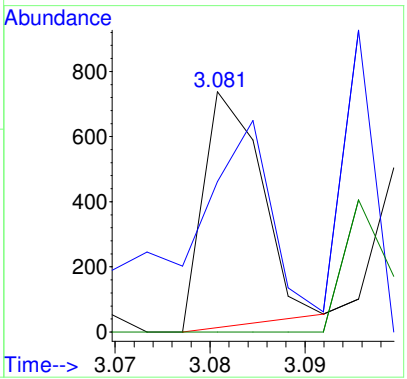
#26
1,1-Dichloroethene SCAN
Concen: 30.29 ug/L
RT: 3.081 min Scan# 806
Delta R.T. 0.004 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

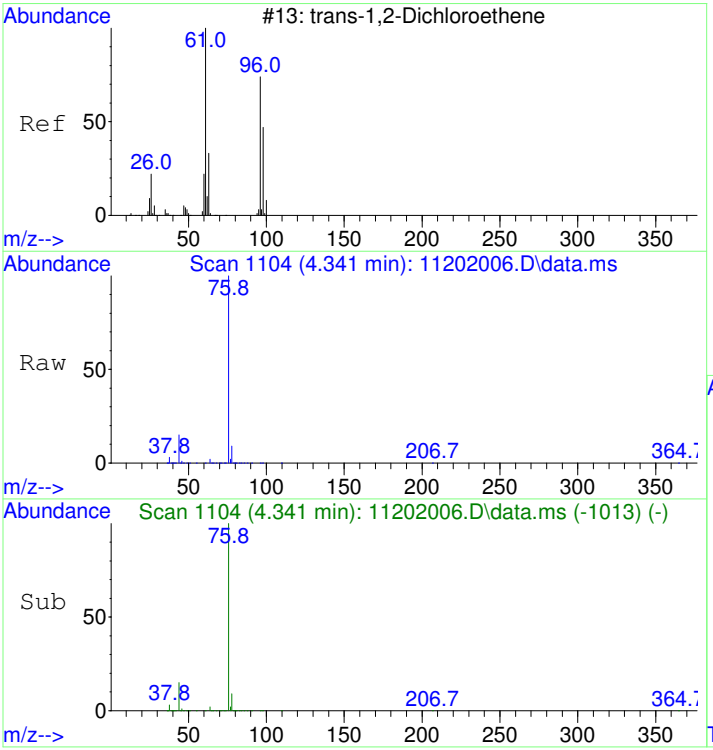
Tgt Ion: 61 Resp: 308

Ion	Ratio	Lower	Upper
61	100		
96	125.3	33.1	93.1#
98	0.0	11.2	71.2#





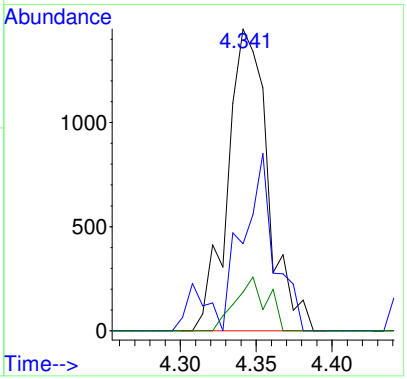


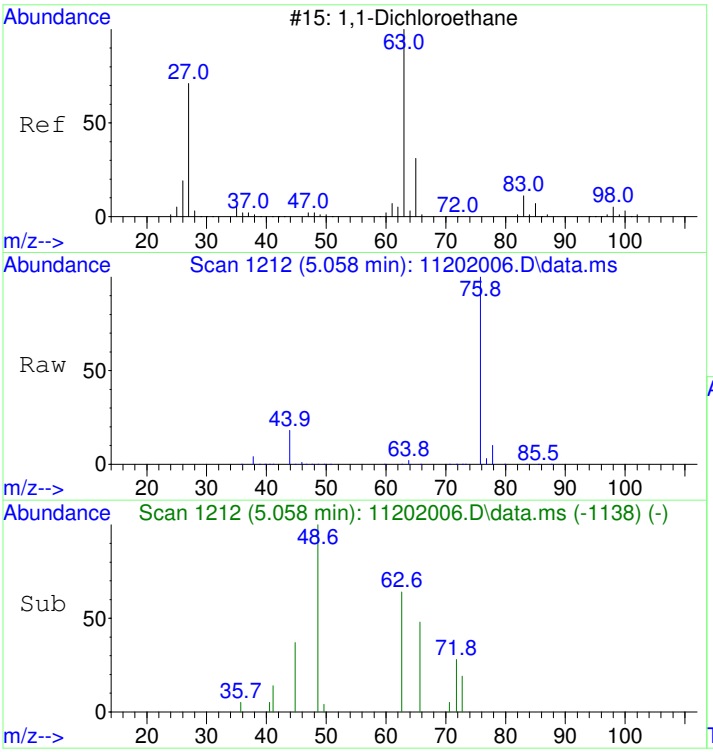


#27
trans-1,2-Dichloroethene SCAN
Concen: 213.29 ug/L
RT: 4.341 min Scan# 1104
Delta R.T. -0.007 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 61 Resp: 2684

Ion	Ratio	Lower	Upper
61	100		
96	45.6	49.0	109.0#
98	14.0	20.5	80.5#

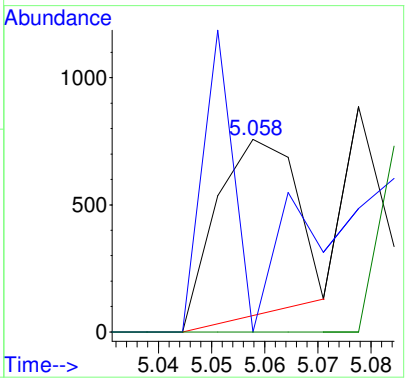


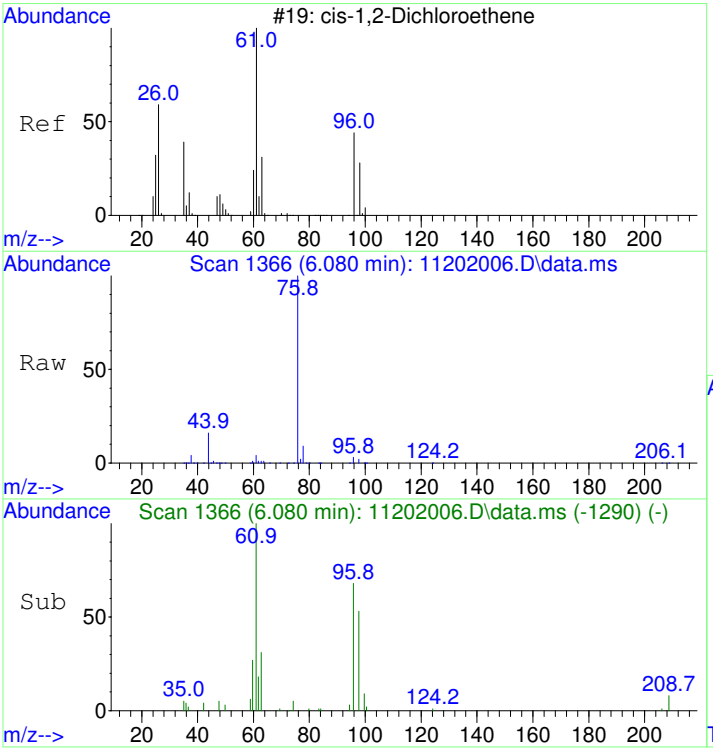


#28
1,1-Dichloroethane SCAN
Concen: 50.54 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.007 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 63 Resp: 736

Ion	Ratio	Lower	Upper
63	100		
65	76.9	1.3	61.3#
83	0.0	0.0	45.9

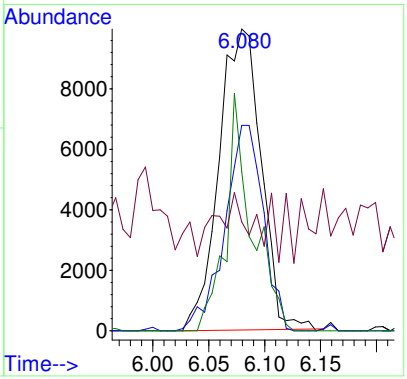


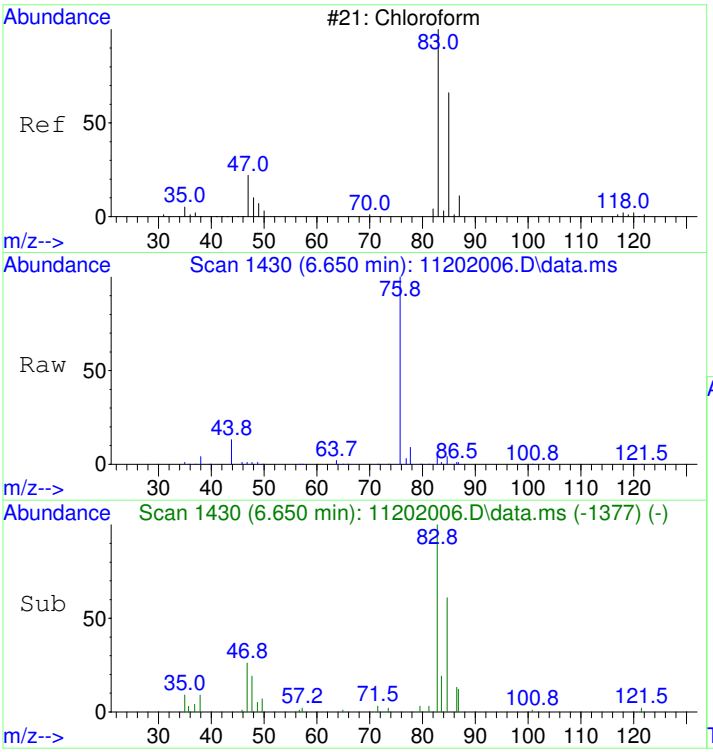


#29
cis-1,2-Dichloroethene SCAN
Concen: 1674.48 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.006 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 61 Resp: 26127

Ion	Ratio	Lower	Upper
61	100		
96	62.2	39.9	99.9
98	48.5	13.5	73.5
64	13.4	4.5	64.5

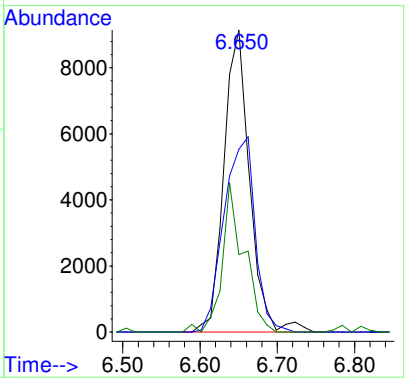


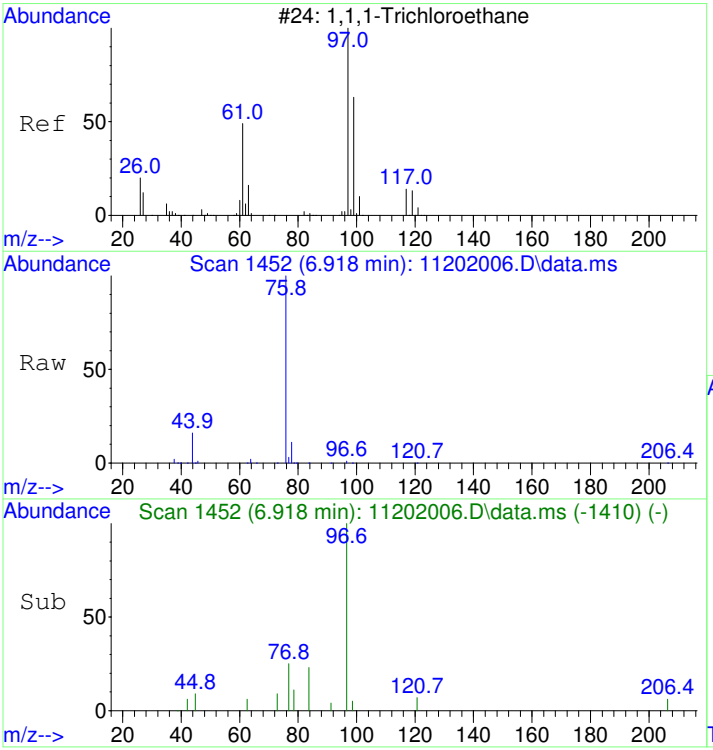


#30
Chloroform SCAN
Concen: 1252.21 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 83 Resp: 21192

Ion	Ratio	Lower	Upper
83	100		
85	77.9	34.6	94.6
47	0.0	0.0	53.4

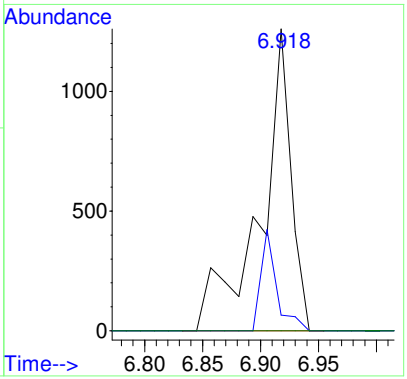


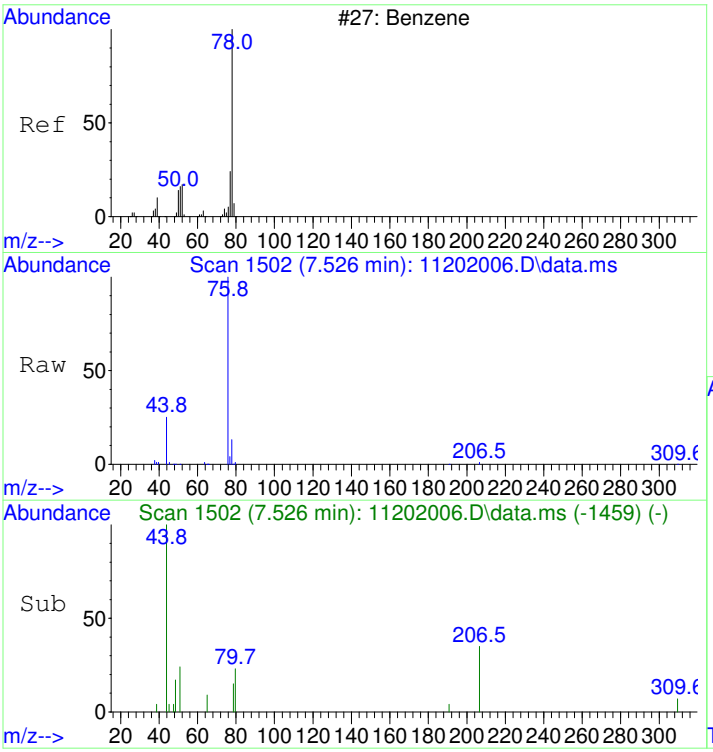


#31
1,1,1-Trichloroethane SCAN
Concen: 149.65 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 97 Resp: 2308

Ion	Ratio	Lower	Upper
97	100		
99	17.2	43.6	103.6#
61	0.0	18.0	78.0#

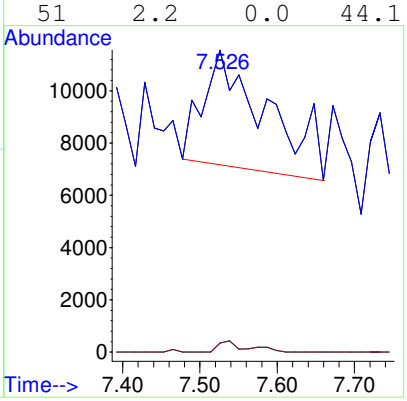


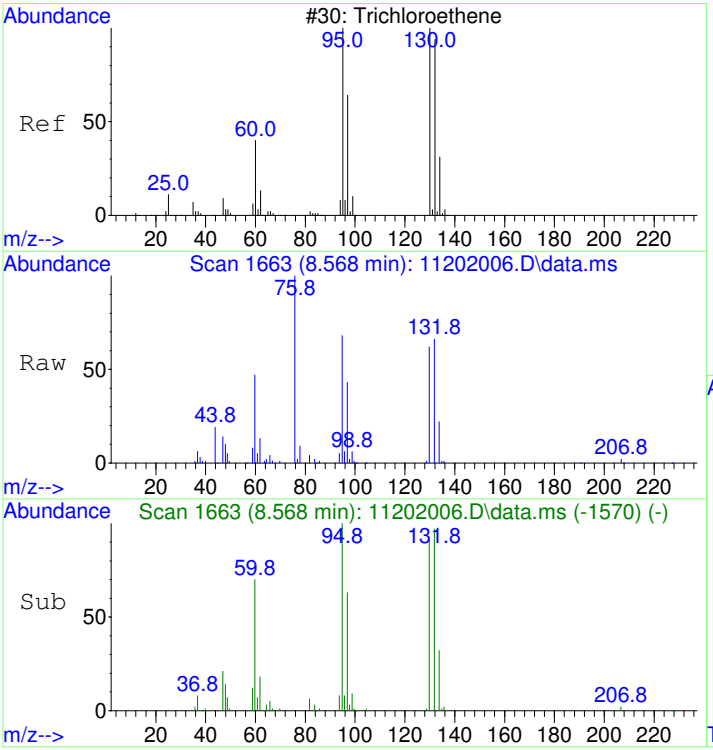


#33
Benzene SCAN
Concen: 586.04 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. 0.024 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 78 Resp: 24885

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	2.2	0.0	47.9
51	2.2	0.0	44.1

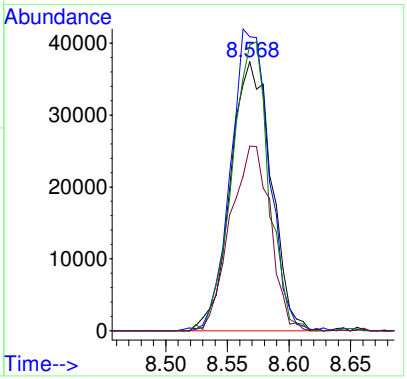


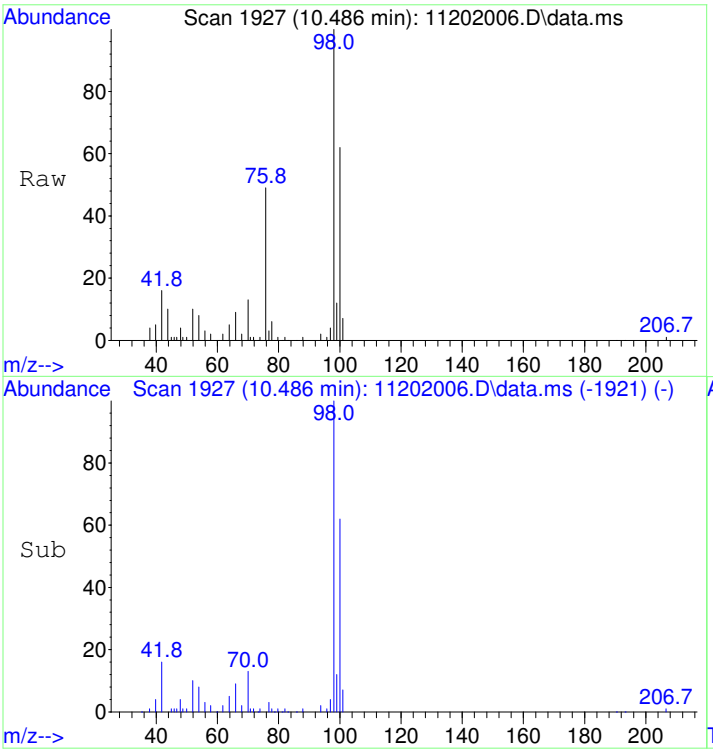


#35
Trichloroethene SCAN
Concen: 7398.21 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion:130 Resp: 86331

Ion	Ratio	Lower	Upper
130	100		
95	105.9	60.5	120.5
132	96.8	59.6	119.6
97	67.4	28.2	88.2

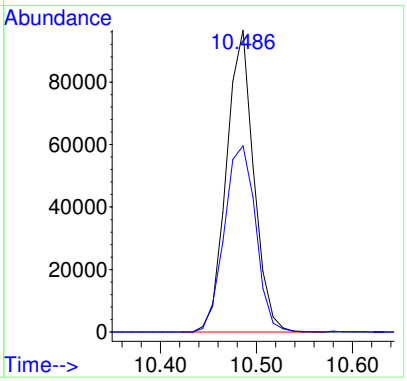


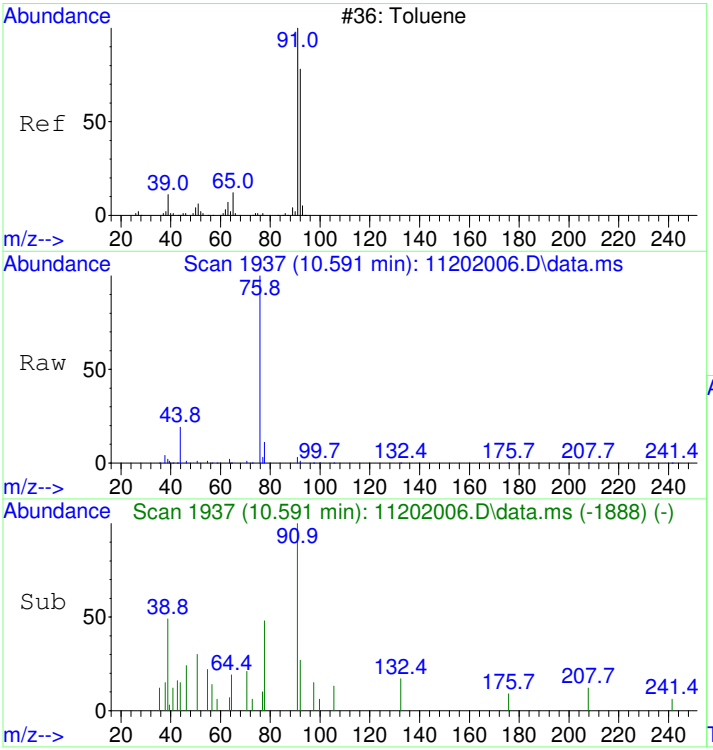


#36
Toluene-d8 SCAN
Concen: 4095.75 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 98 Resp: 191801

Ion	Ratio	Lower	Upper
98	100		
100	70.7	40.0	100.0

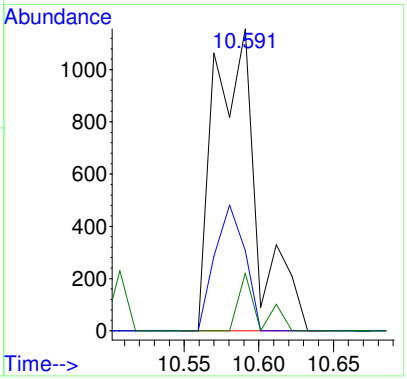


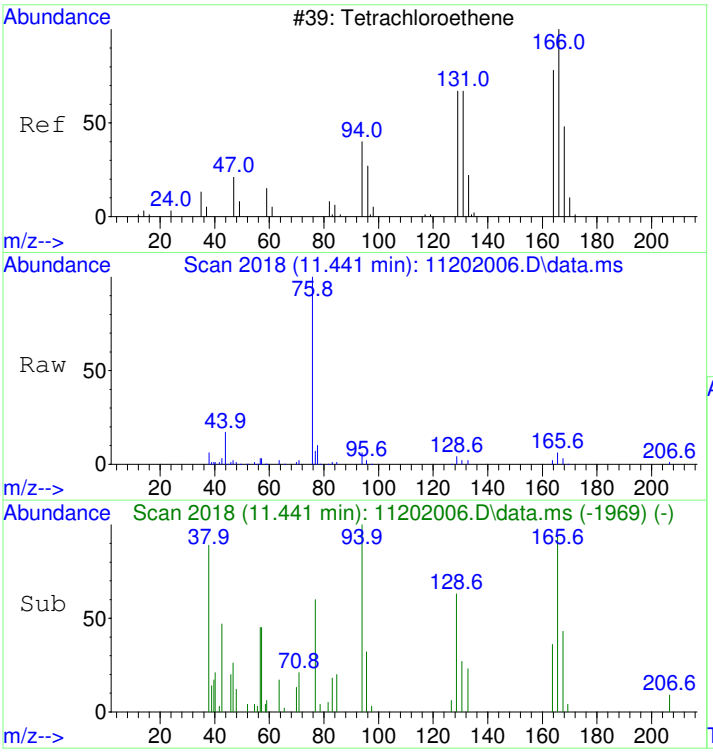


#37
Toluene SCAN
Concen: 38.47 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 91 Resp: 2307

Ion	Ratio	Lower	Upper
91	100		
92	29.3	28.3	88.3
65	8.8	0.0	41.0

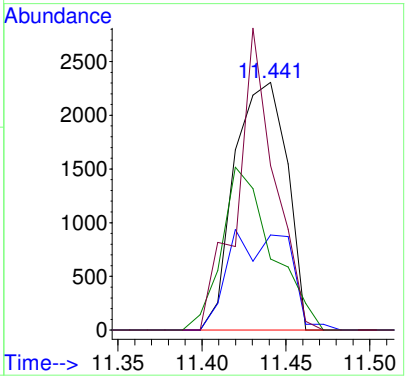




#39
Tetrachloroethene SCAN
Concen: 348.49 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion:166 Resp: 5021

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	0.0	38.7	98.7#
129	87.3	41.8	101.8



Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202006.D
Acq On : 20 Nov 2020 11:39 am
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-19RE1
Misc : 10X DL (180-20)
ALS Vial : 6
Multiplier: 10

Before Manual Integration

Quant Time: Nov 23 14:35:15 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	491213	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	411289	4277.12	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 85.54%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	2740	139.69	ug/L	90
3] trans-1,2-Dichloroethene	4.342	61	3418	150.82	ug/L	95
4] 1,1-Dichloroethane	5.066	63	2529	89.65	ug/L	91
5] cis-1,2-Dichloroethene	6.074	61	46386	1557.72	ug/L	99
6] Chloroform	6.639	83	41478	1360.87	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1945	58.76	ug/L	97
9] Benzene	7.503	78	2046	24.51	ug/L #	1
11] Trichloroethene	8.569	130	184016	7322.95	ug/L	95
13] Toluene	10.582	91	3804	31.03	ug/L	99
15] Tetrachloroethene	11.432	166	8999	253.64	ug/L	99
25) 2-Fluorotoluene SCAN	10.969	109	229285	4788.32	ug/L	98
26) 1,1-Dichloroethene SCAN	3.081	61	308	30.29	ug/L #	26
27) trans-1,2-Dichloroethe...	4.341	61	2684	213.29	ug/L #	56
28) 1,1-Dichloroethane SCAN	5.058	63	736	50.54	ug/L #	33
29) cis-1,2-Dichloroethene...	6.080	61	26127	1674.48	ug/L	85
30) Chloroform SCAN	6.650	83	21192	1252.21	ug/L #	75
31) 1,1,1-Trichloroethane ...	6.918	97	2308	149.65	ug/L #	31
33) Benzene SCAN	7.526	78	24885	586.04	ug/L	92
35) Trichloroethene SCAN	8.568	130	86331	7398.21	ug/L	88
36) Toluene-d8 SCAN	10.486	98	191801	4095.75	ug/L	99
37) Toluene SCAN	10.591	91	2307	38.47	ug/L	66
39) Tetrachloroethene SCAN	11.441	166	5021	348.49	ug/L #	34

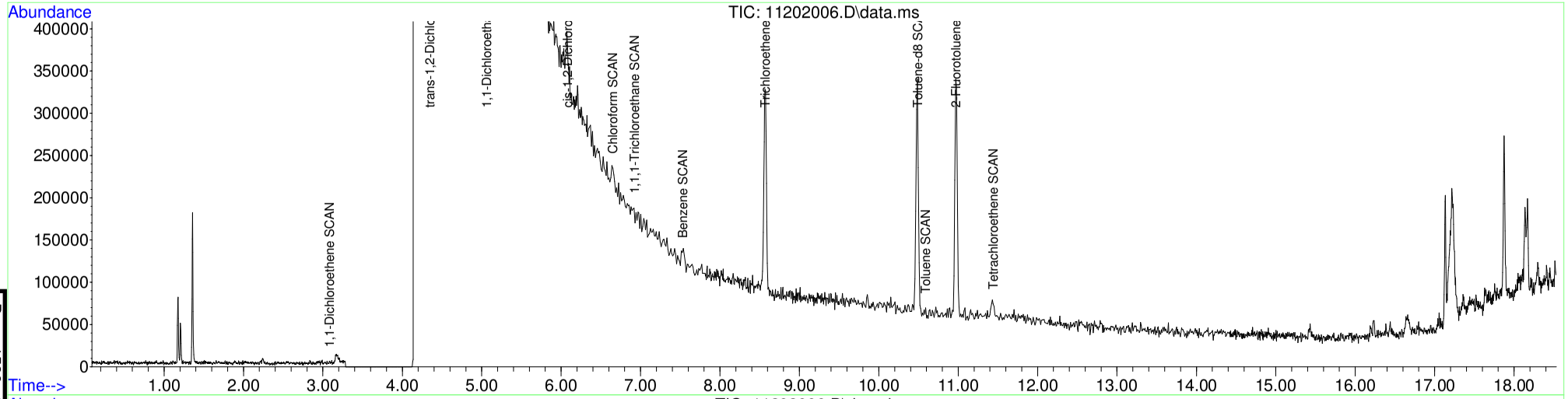
(#) = qualifier out of range (m) = manual integration (+) = signals summed

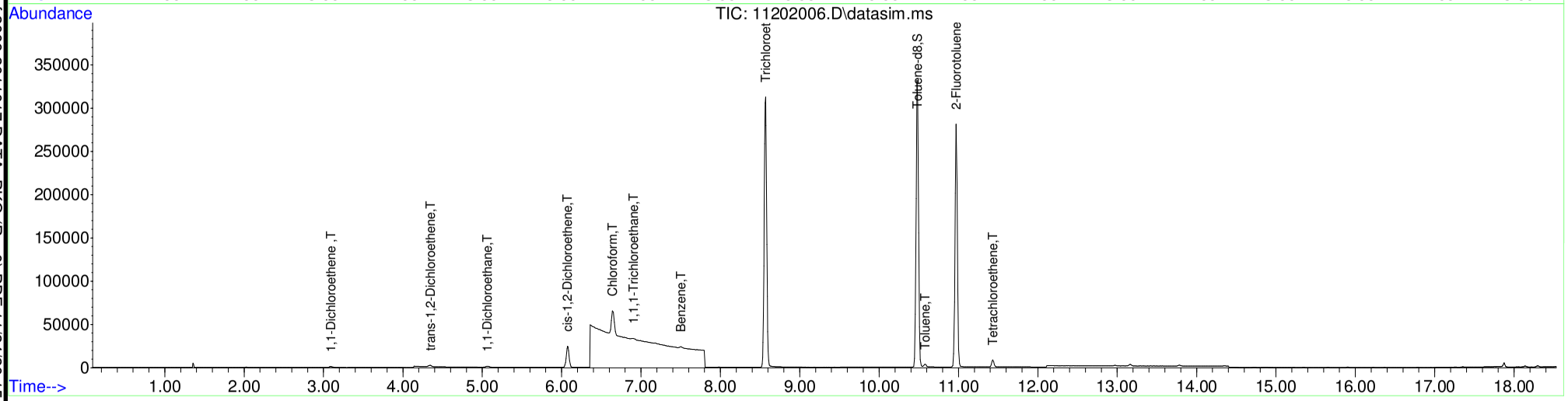
Quantitation Report (Not Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202006.D
Acq On : 20 Nov 2020 11:39 am
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-19RE1
Misc : 10X DL (180-20)
ALS Vial : 6
Multiplier: 10

Quant Time: Nov 23 14:35:15 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M





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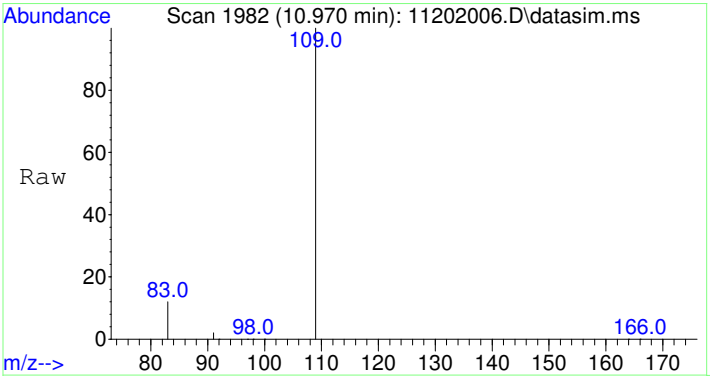
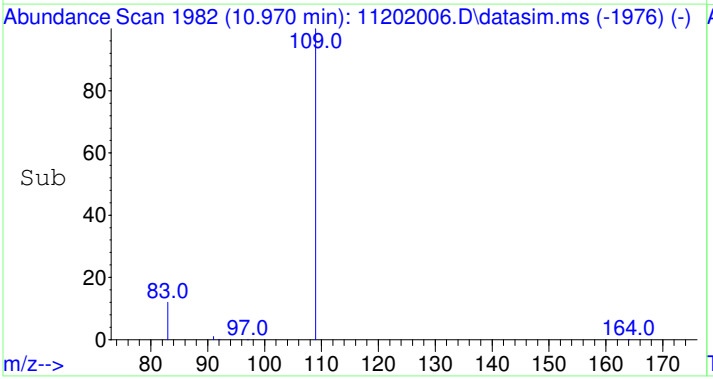
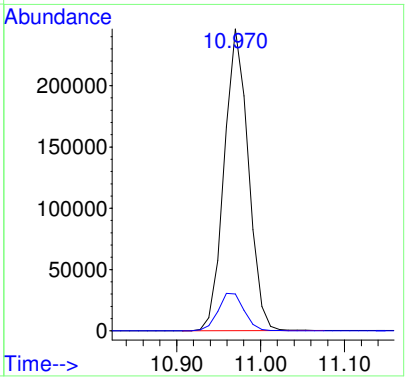


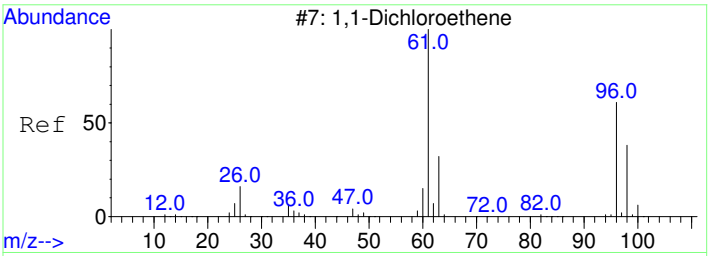
#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion:109 Resp: 491213

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3



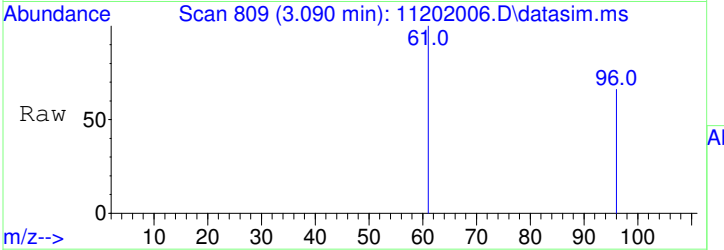


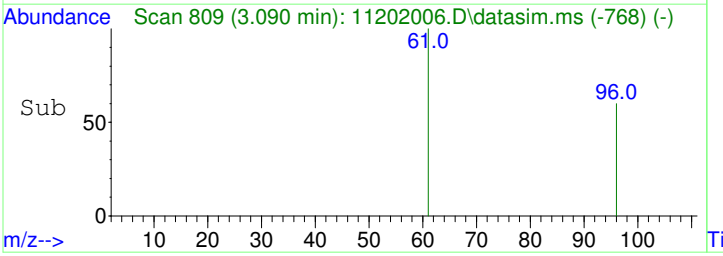


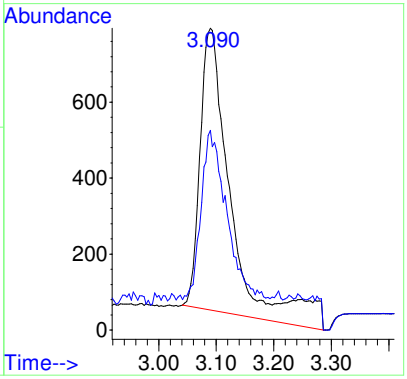
#2
1,1-Dichloroethene
Concen: 139.69 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 61 Resp: 2740

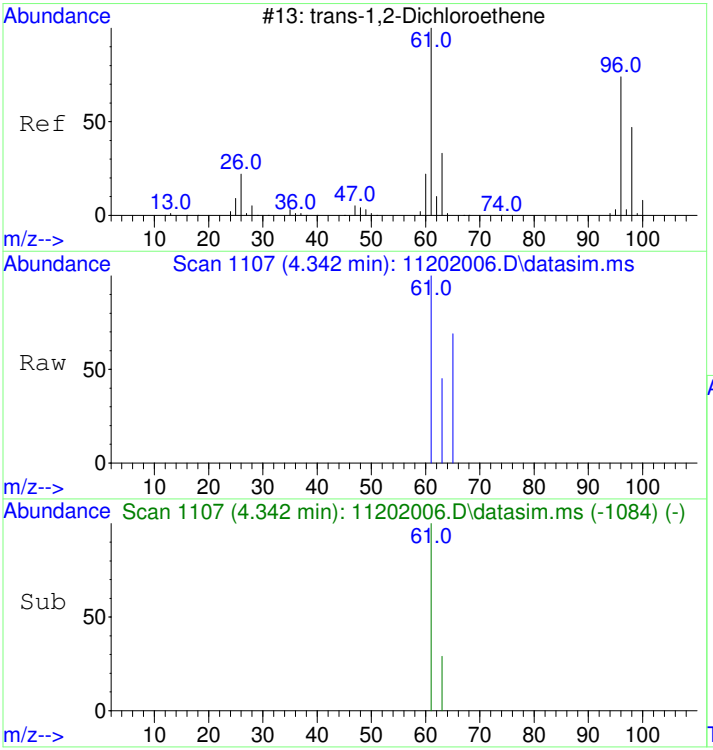
Ion	Ratio	Lower	Upper
61	100		
96	59.4	37.2	97.2







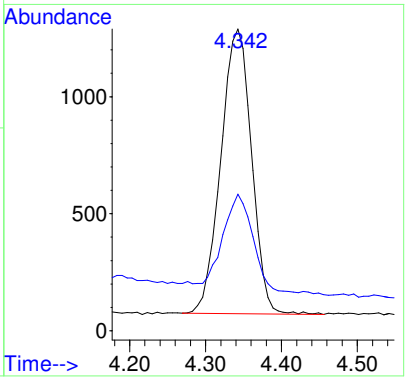
Before MI: IMPROPER BASELINE

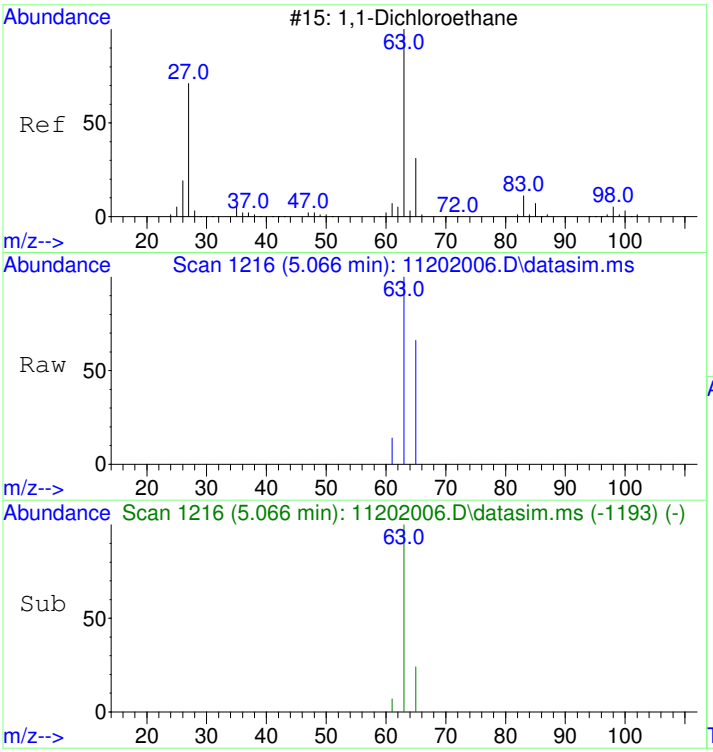


#3
trans-1,2-Dichloroethene
Concen: 150.82 ug/L
RT: 4.342 min Scan# 1107
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 61 Resp: 3418

Ion	Ratio	Lower	Upper
61	100		
63	35.1	2.4	62.4

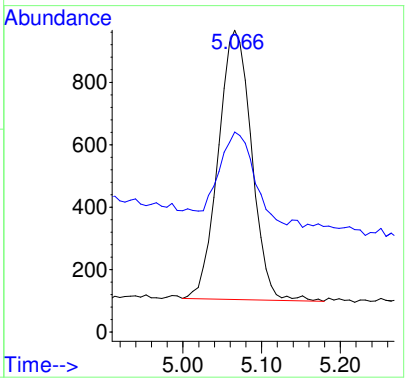


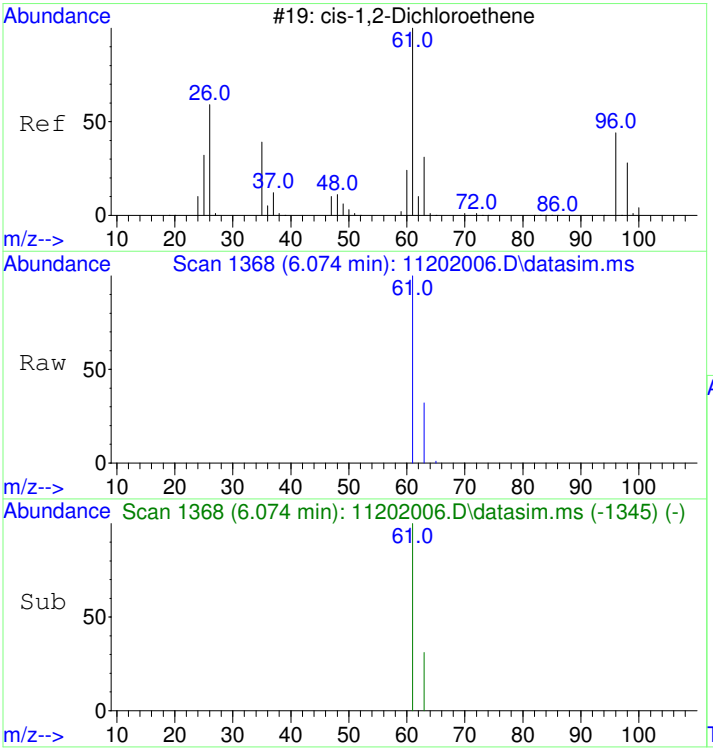


#4
1,1-Dichloroethane
Concen: 89.65 ug/L
RT: 5.066 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 63 Resp: 2529

Ion	Ratio	Lower	Upper
63	100		
65	36.7	1.8	61.8

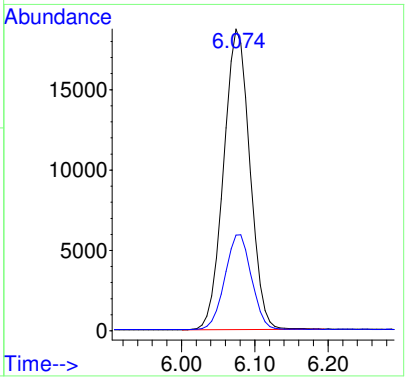


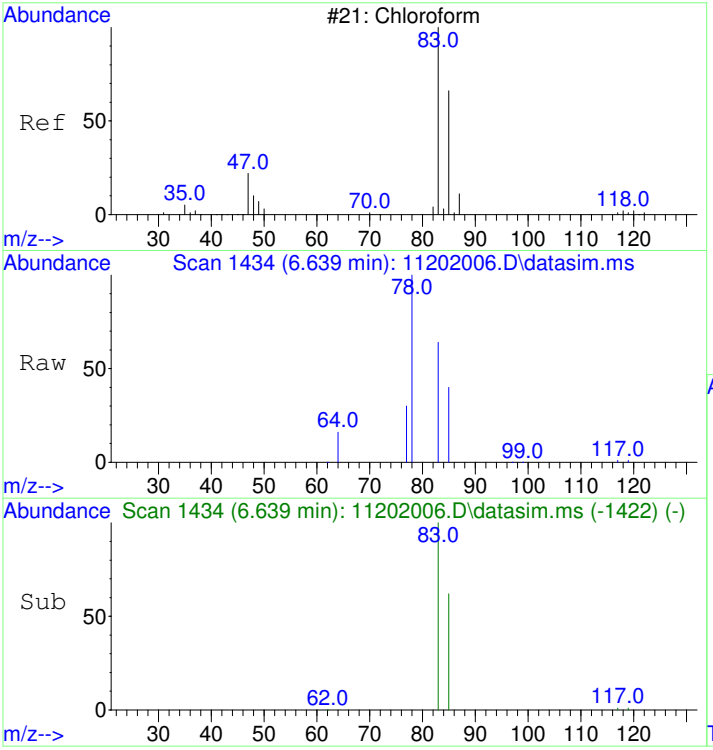


#5
cis-1,2-Dichloroethene
Concen: 1557.72 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 61 Resp: 46386

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

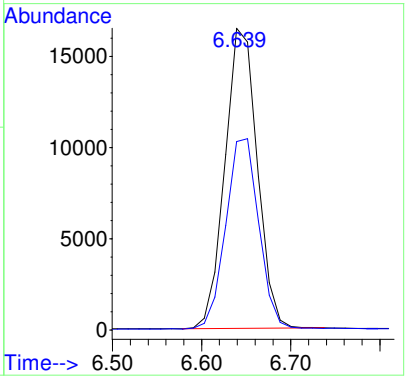


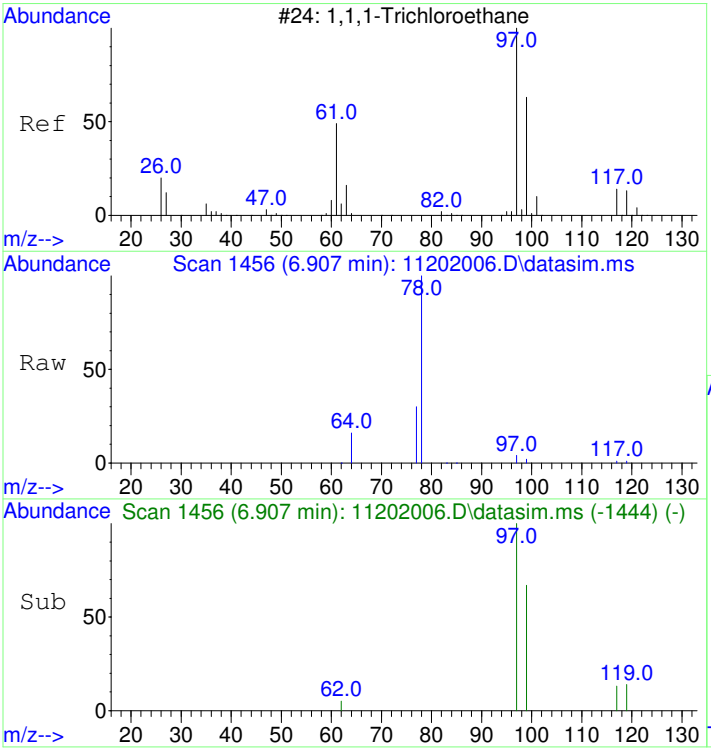


#6
Chloroform
Concen: 1360.87 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 83 Resp: 41478

Ion	Ratio	Lower	Upper
83	100		
85	64.4	35.1	95.1

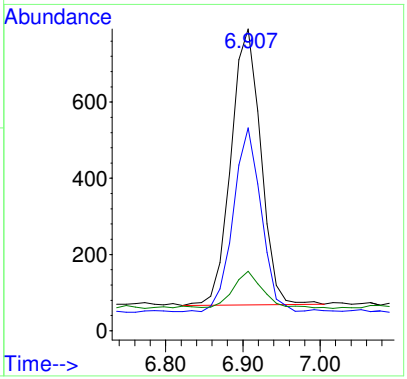


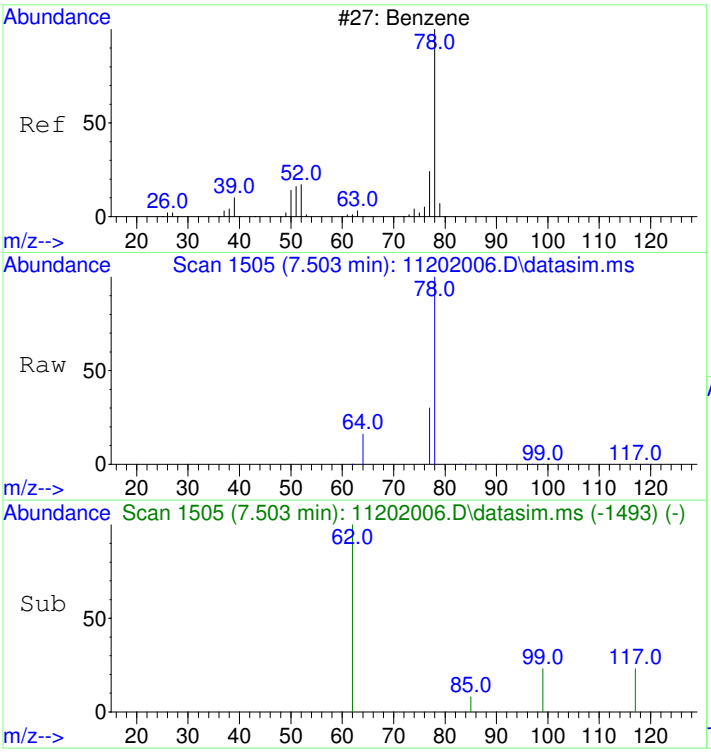


#7
1,1,1-Trichloroethane
Concen: 58.76 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 97 Resp: 1945

Ion	Ratio	Lower	Upper
97	100		
99	62.1	34.6	94.6
117	13.0	0.0	43.2

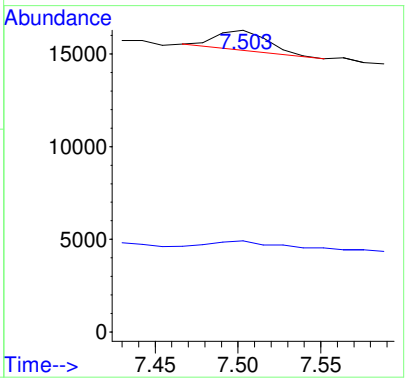


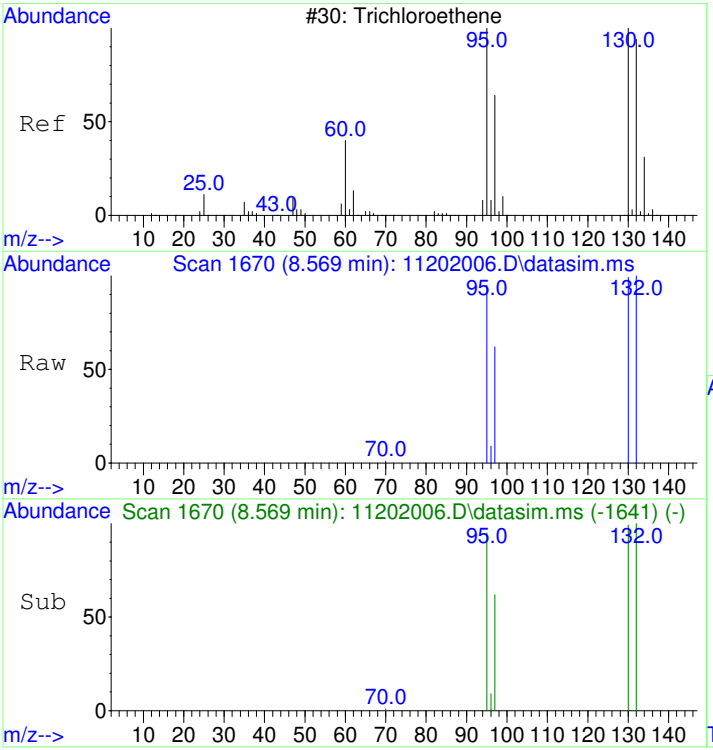


#9
Benzene
Concen: 24.51 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 78 Resp: 2046

Ion	Ratio	Lower	Upper
78	100		
77	123.3	0.0	53.2#

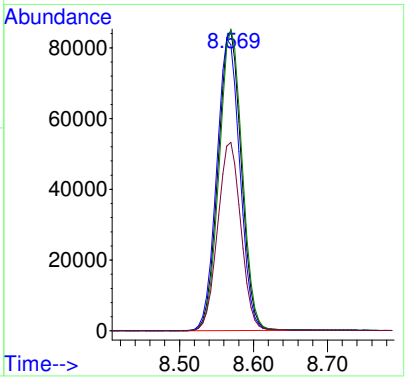


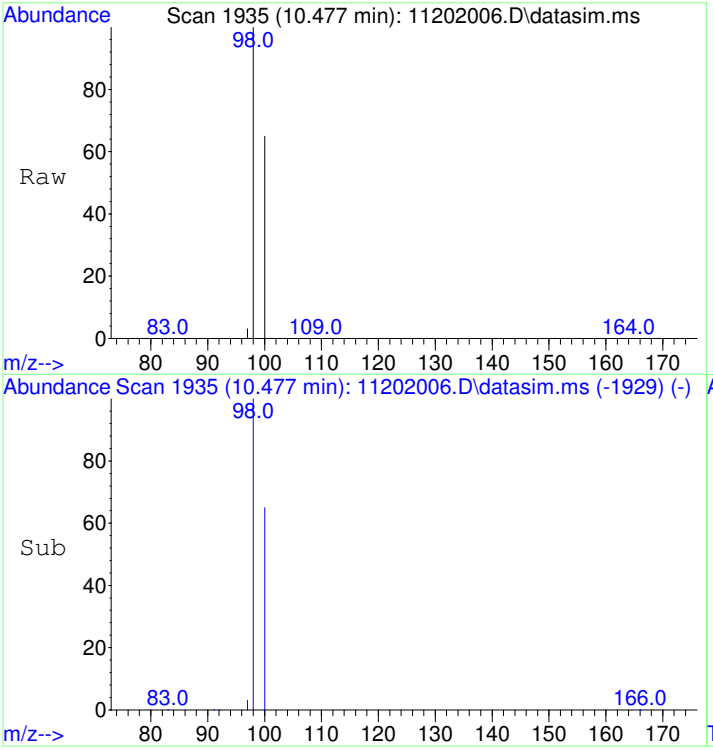


#11
Trichloroethene
Concen: 7322.95 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion:130 Resp: 184016

Ion	Ratio	Lower	Upper
130	100		
95	97.6	60.7	120.7
132	99.6	76.0	116.0
97	62.8	38.6	78.6

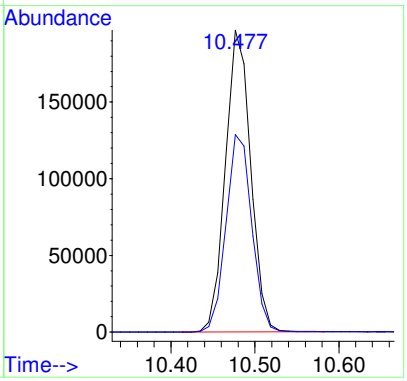


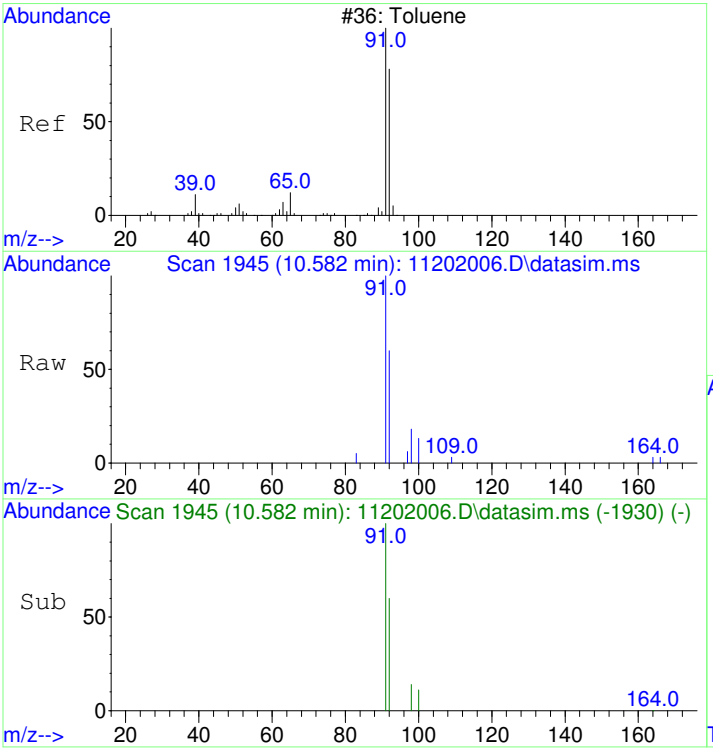


#12
Toluene-d8
Concen: 4277.12 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 98 Resp: 411289

Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1

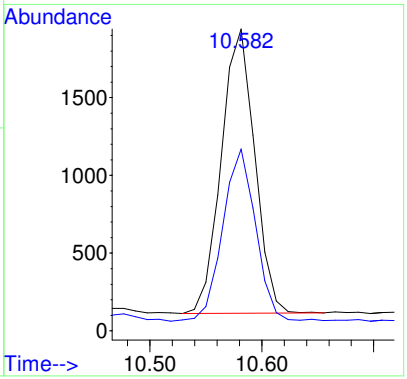


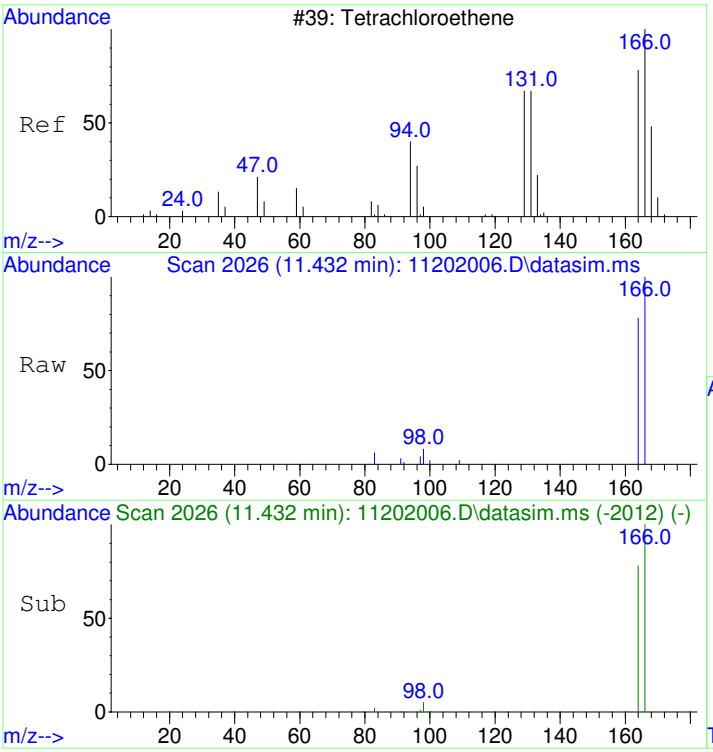


#13
Toluene
Concen: 31.03 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 91 Resp: 3804

Ion	Ratio	Lower	Upper
91	100		
92	59.0	29.9	89.9

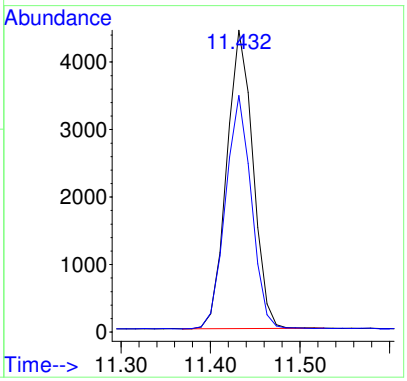


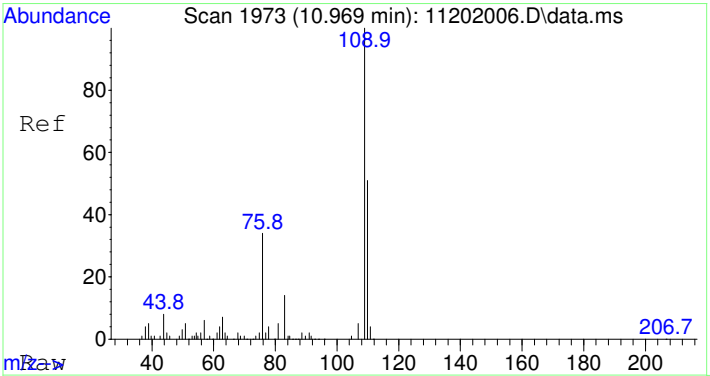


#15
Tetrachloroethene
Concen: 253.64 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion:166 Resp: 8999

Ion	Ratio	Lower	Upper
166	100		
164	77.2	47.8	107.8

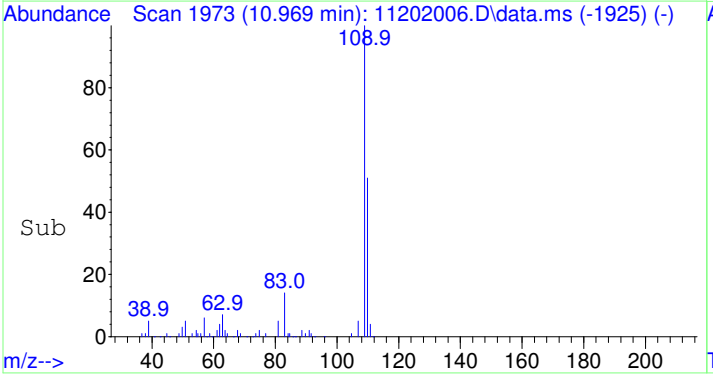


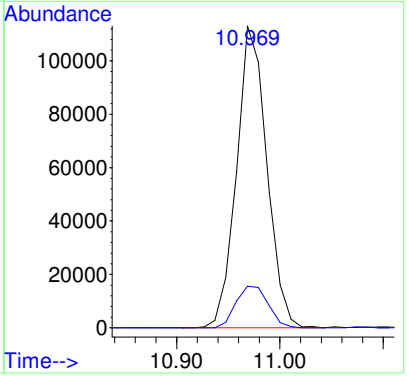


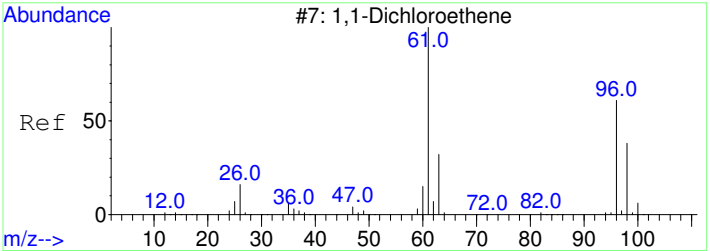
#25
2-Fluorotoluene SCAN
Concen: 4788.32 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

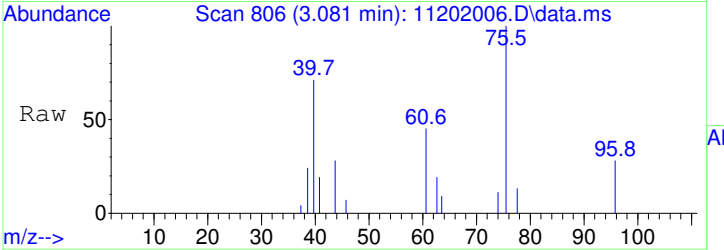
Tgt Ion:109 Resp: 229285

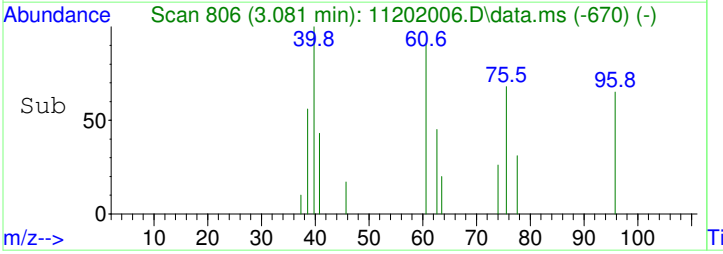
Ion	Ratio	Lower	Upper
109	100		
83	14.7	0.0	43.8







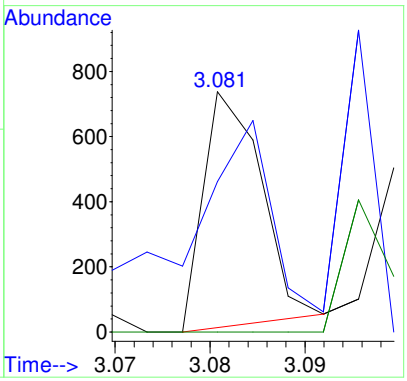


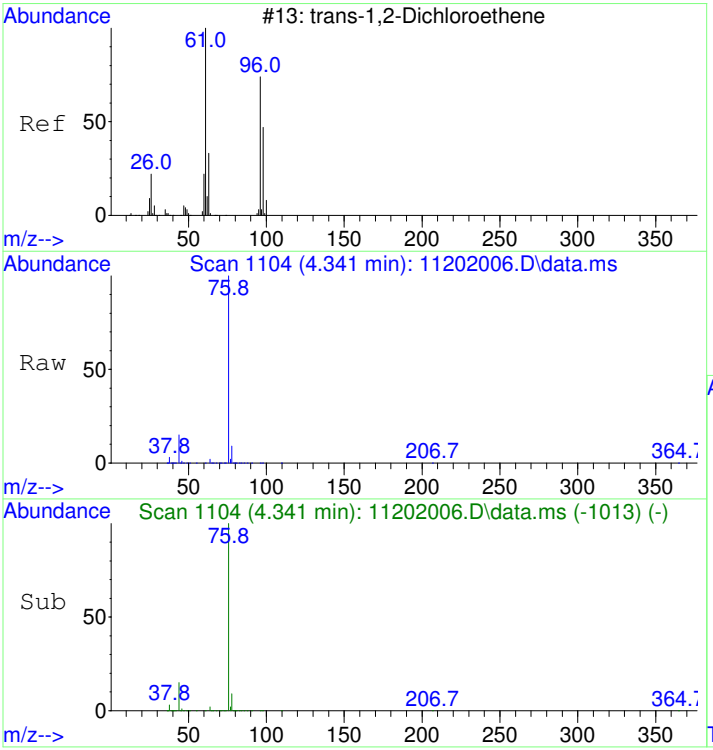


#26
1,1-Dichloroethene SCAN
Concen: 30.29 ug/L
RT: 3.081 min Scan# 806
Delta R.T. 0.004 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 61 Resp: 308

Ion	Ratio	Lower	Upper
61	100		
96	125.3	33.1	93.1#
98	0.0	11.2	71.2#

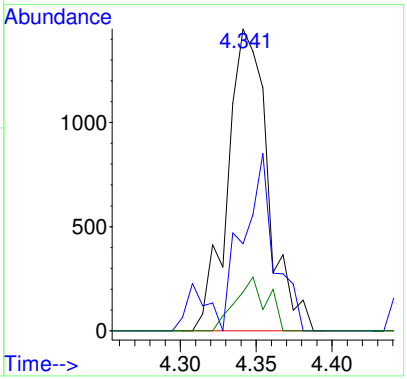


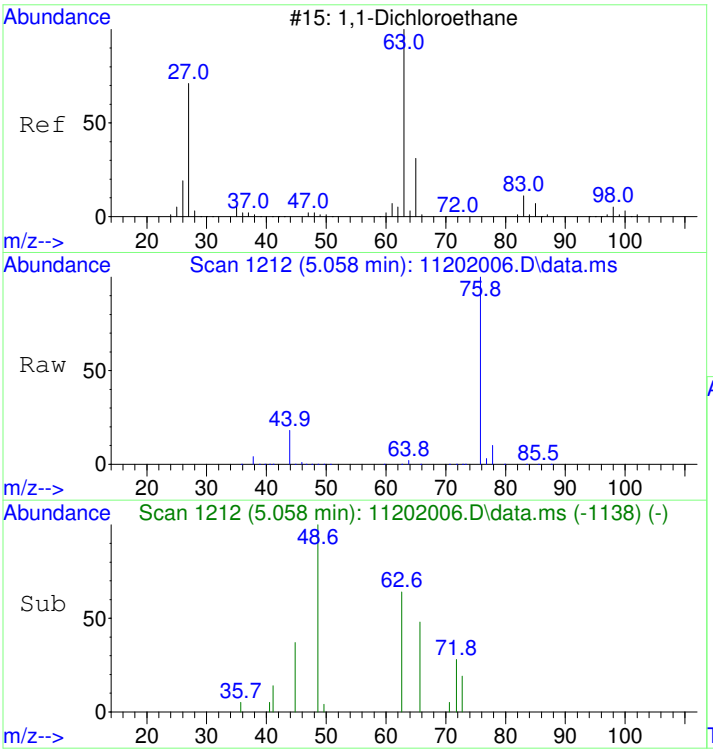


#27
trans-1,2-Dichloroethene SCAN
Concen: 213.29 ug/L
RT: 4.341 min Scan# 1104
Delta R.T. -0.007 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 61 Resp: 2684

Ion	Ratio	Lower	Upper
61	100		
96	45.6	49.0	109.0#
98	14.0	20.5	80.5#

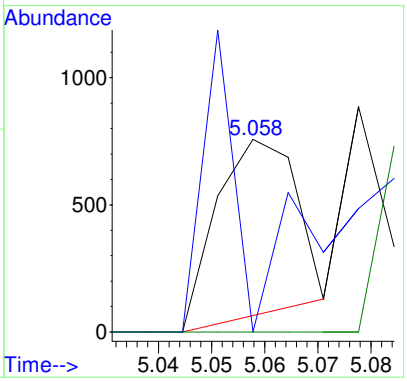


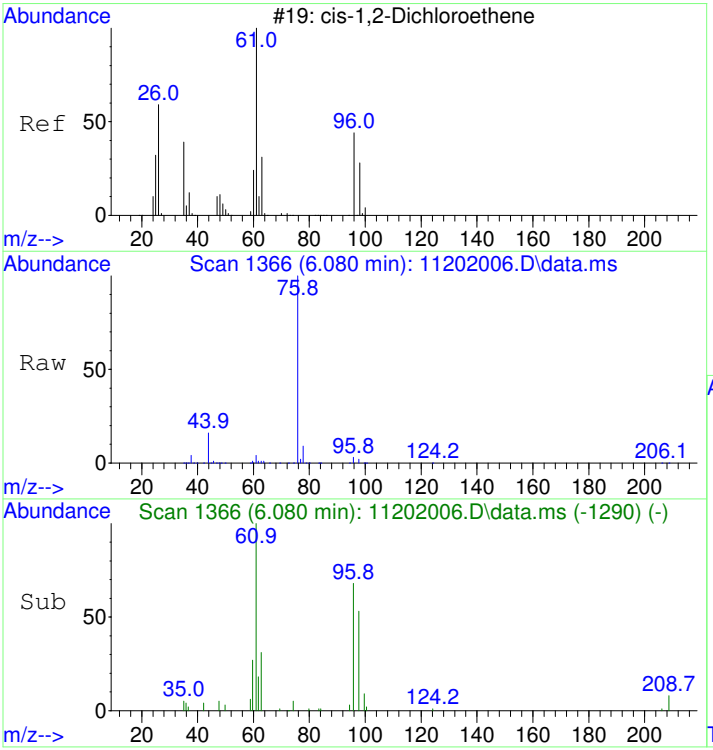


#28
1,1-Dichloroethane SCAN
Concen: 50.54 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.007 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 63 Resp: 736

Ion	Ratio	Lower	Upper
63	100		
65	76.9	1.3	61.3#
83	0.0	0.0	45.9

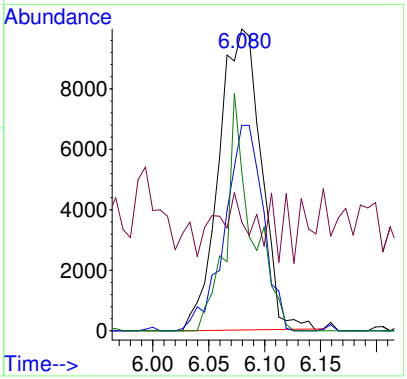


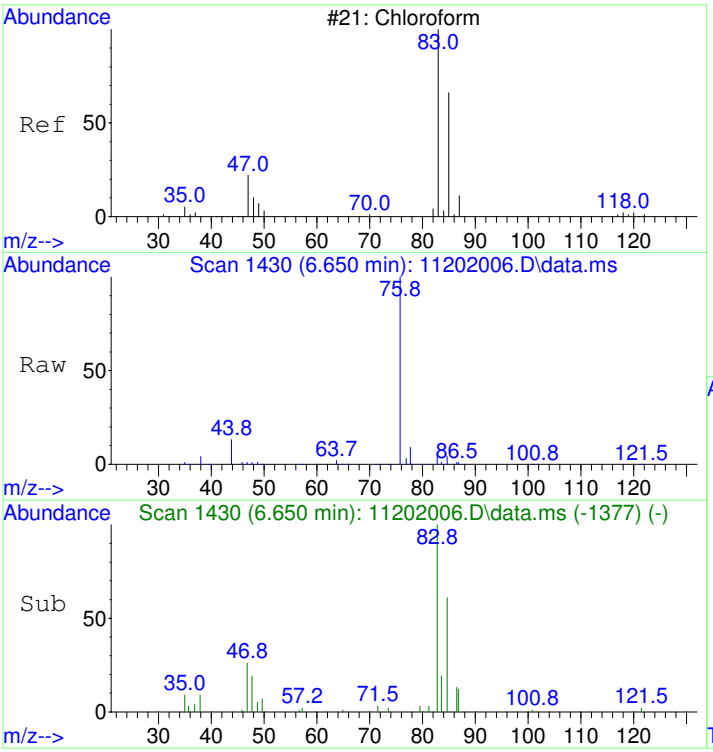


#29
cis-1,2-Dichloroethene SCAN
Concen: 1674.48 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.006 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 61 Resp: 26127

Ion	Ratio	Lower	Upper
61	100		
96	62.2	39.9	99.9
98	48.5	13.5	73.5
64	13.4	4.5	64.5

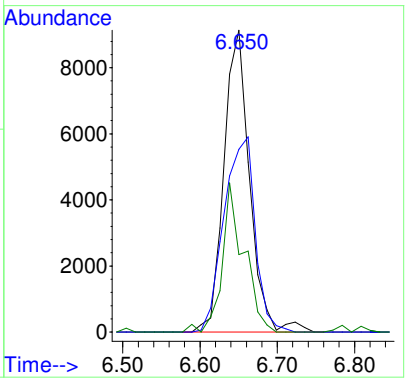


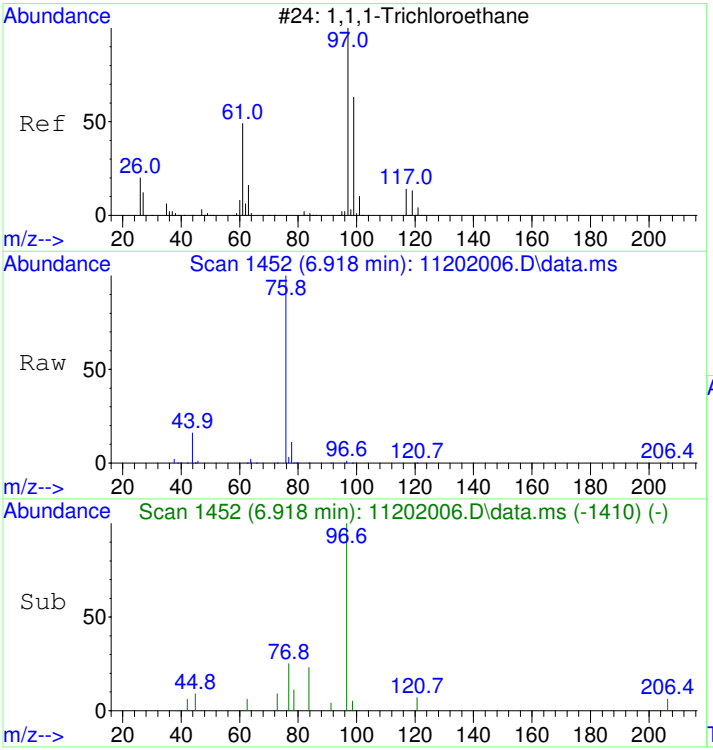


#30
Chloroform SCAN
Concen: 1252.21 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 83 Resp: 21192

Ion	Ratio	Lower	Upper
83	100		
85	77.9	34.6	94.6
47	0.0	0.0	53.4

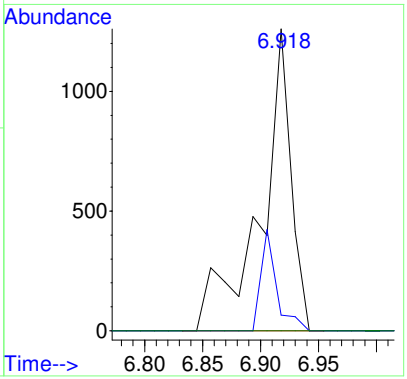


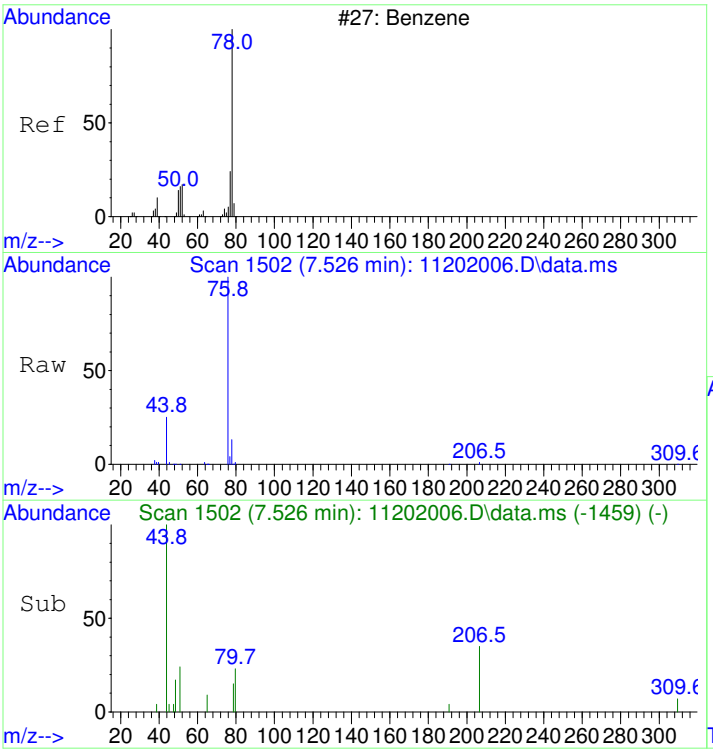


#31
1,1,1-Trichloroethane SCAN
Concen: 149.65 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 97 Resp: 2308

Ion	Ratio	Lower	Upper
97	100		
99	17.2	43.6	103.6#
61	0.0	18.0	78.0#

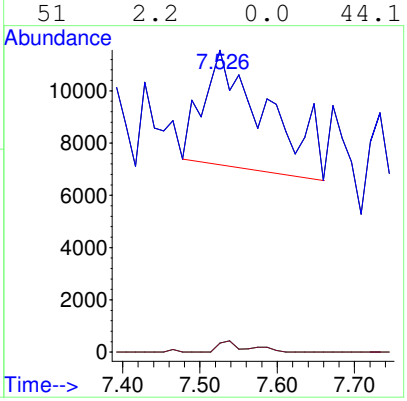


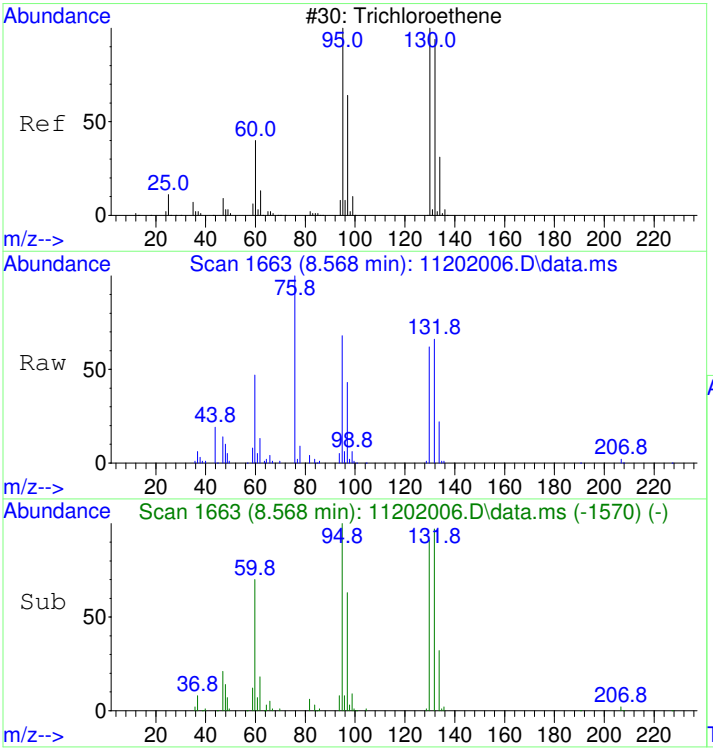


#33
Benzene SCAN
Concen: 586.04 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. 0.024 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 78 Resp: 24885

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	2.2	0.0	47.9
51	2.2	0.0	44.1

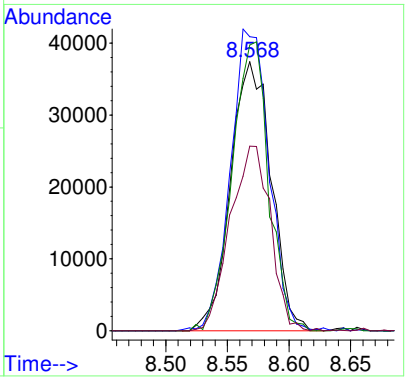


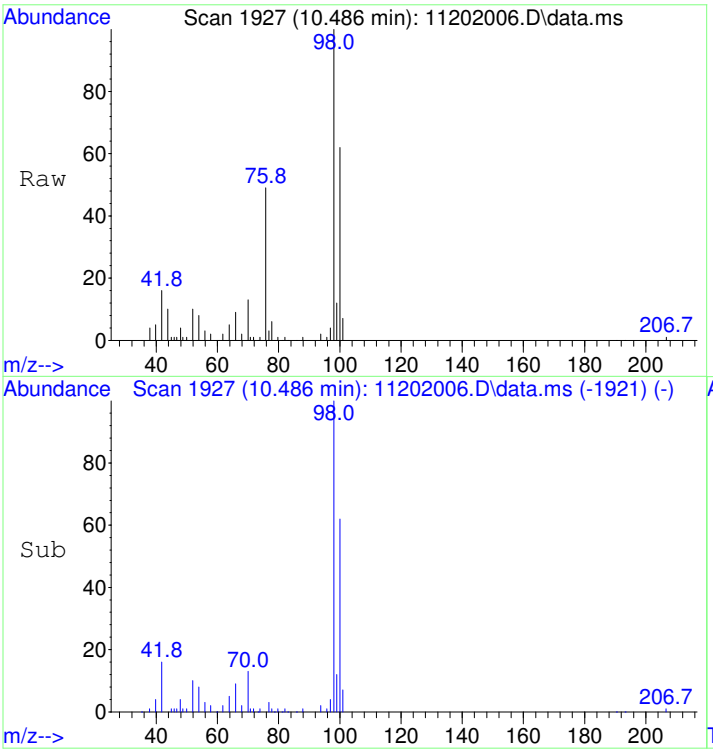


#35
Trichloroethene SCAN
Concen: 7398.21 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion:130 Resp: 86331

Ion	Ratio	Lower	Upper
130	100		
95	105.9	60.5	120.5
132	96.8	59.6	119.6
97	67.4	28.2	88.2

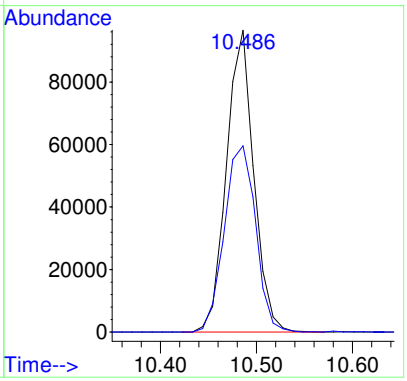


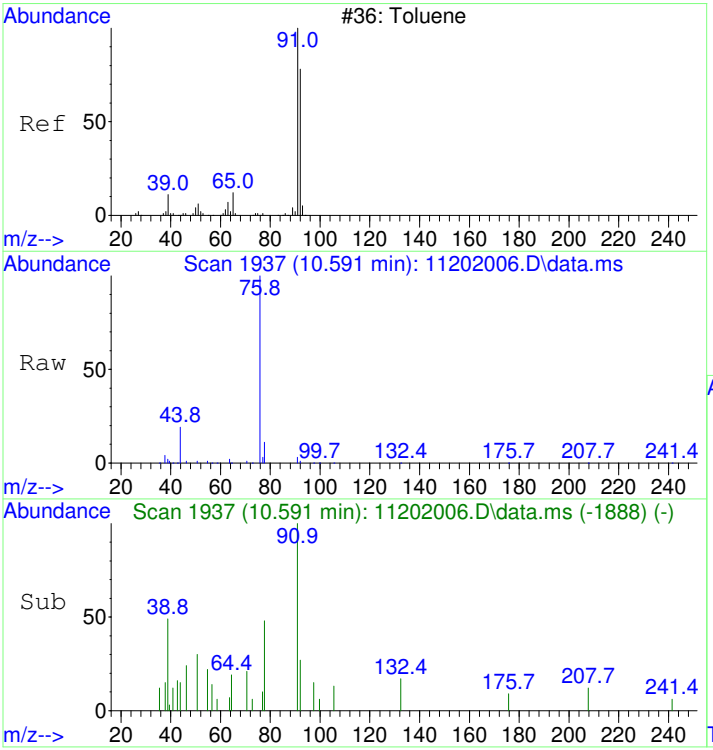


#36
Toluene-d8 SCAN
Concen: 4095.75 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 98 Resp: 191801

Ion	Ratio	Lower	Upper
98	100		
100	70.7	40.0	100.0

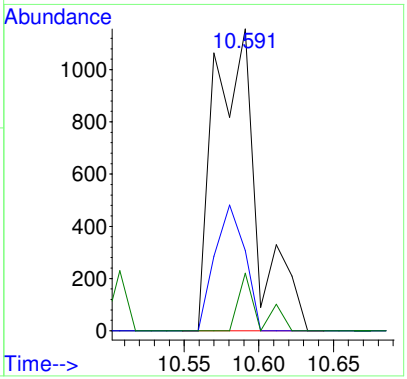


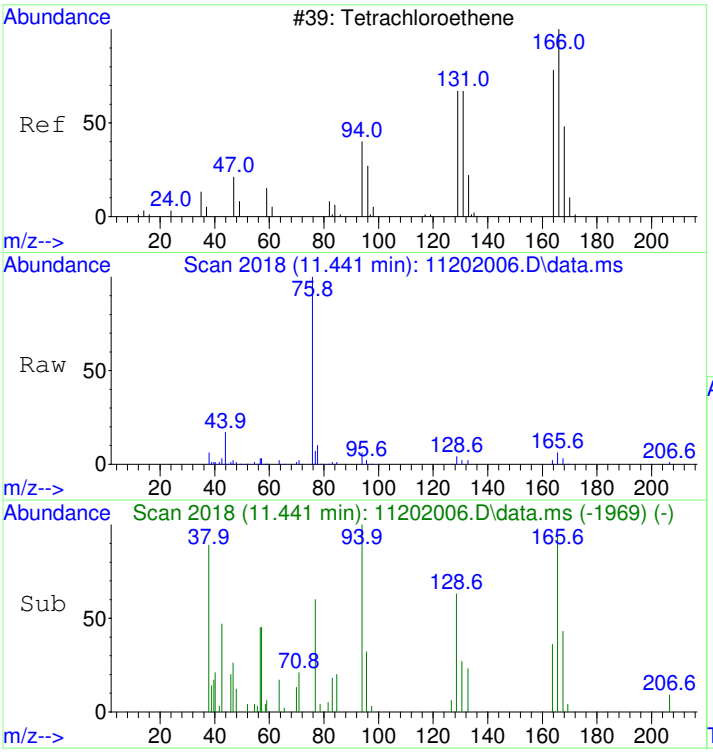


#37
Toluene SCAN
Concen: 38.47 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion: 91 Resp: 2307

Ion	Ratio	Lower	Upper
91	100		
92	29.3	28.3	88.3
65	8.8	0.0	41.0

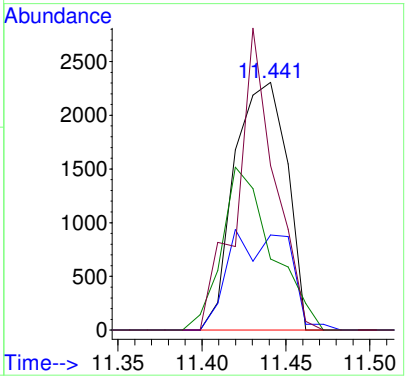




#39
Tetrachloroethene SCAN
Concen: 348.49 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11202006.D
Acq: 20 Nov 2020 11:39 am

Tgt Ion:166 Resp: 5021

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	0.0	38.7	98.7#
129	87.3	41.8	101.8



2011017-20RE1

Quantitation Report (QT Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202007.D
Acq On : 20 Nov 2020 12:02 pm
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-20RE1
Misc : 10X DL (180-20)
ALS Vial : 7
Multiplier: 10

report TCE

Quant Time: Nov 23 14:38:35 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	582943	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	484692	4247.31	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 84.95%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.093	61	2170m	93.22	ug/L	
3] trans-1,2-Dichloroethene	4.363	61	3049	113.37	ug/L	79
4] 1,1-Dichloroethane	5.086	63	2608	77.90	ug/L	69
5] cis-1,2-Dichloroethene	6.088	61	45000	1273.38	ug/L	99
6] Chloroform	6.652	83	42217	1167.16	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1904	48.47	ug/L	98
11] Trichloroethene	8.569	130	177445	5950.29	ug/L	95
13] Toluene	10.582	91	4514	31.03	ug/L	98
15] Tetrachloroethene	11.432	166	8518	202.31	ug/L	99
19] m&p-Xylene	13.163	91	3401	24.57	ug/L	86
25) 2-Fluorotoluene SCAN	10.969	109	272318	4792.12	ug/L	99
26) 1,1-Dichloroethene SCAN	3.129	61	497	41.18	ug/L	77
27) trans-1,2-Dichloroethe...	4.355	61	1658	111.02	ug/L #	29
28) 1,1-Dichloroethane SCAN	5.317	63	823	47.62	ug/L	71
29) cis-1,2-Dichloroethene...	6.093	61	25293	1365.95	ug/L #	84
30) Chloroform SCAN	6.650	83	24453	1217.53	ug/L	89
31) 1,1,1-Trichloroethane ...	6.906	97	1327	72.50	ug/L #	19
33) Benzene SCAN	7.441	78	11348	225.19	ug/L	91
34) 1,2-Dichloroethane SCAN	7.587	62	419	22.52	ug/L #	1
35) Trichloroethene SCAN	8.574	130	81585	5891.34	ug/L	87
36) Toluene-d8 SCAN	10.486	98	249495	4489.40	ug/L	91
37) Toluene SCAN	10.580	91	3747	52.65	ug/L #	78
39) Tetrachloroethene SCAN	11.441	166	4394	256.98	ug/L #	53
42) Ethylbenzene SCAN	13.169	91	2605	20.09	ug/L	74
43) m&p-Xylene SCAN	13.169	91	2605	20.09	ug/L #	67

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

M.I. Performed By:
LLH at 2:38 pm, Nov 23, 2020

M.I. Approved By:
ZR at 6:34 pm, Nov 23, 2020

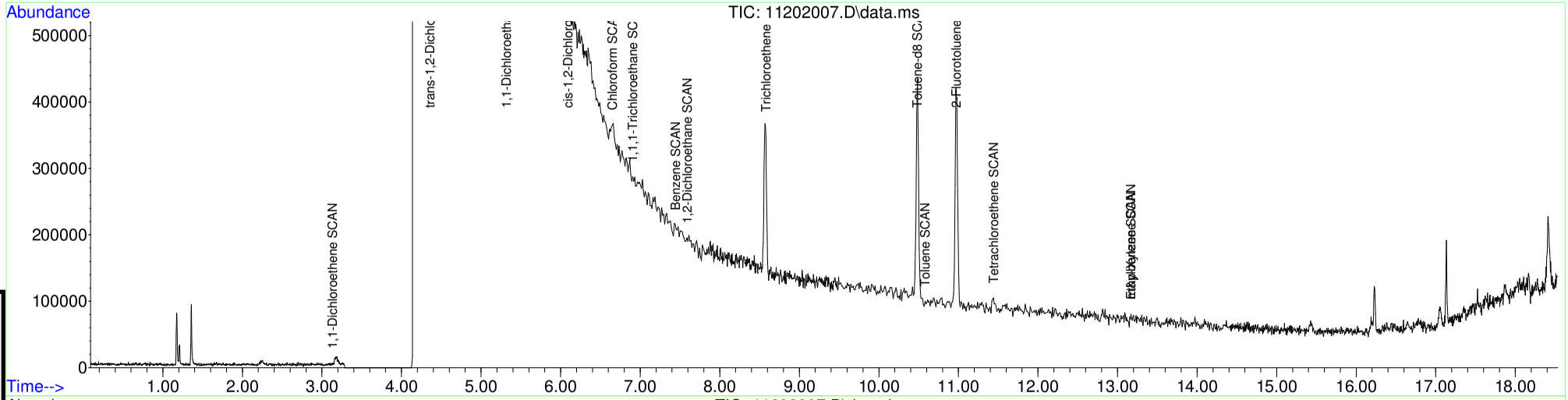
REVIEWED
By LLH at 2:38 pm, Nov 23, 2020

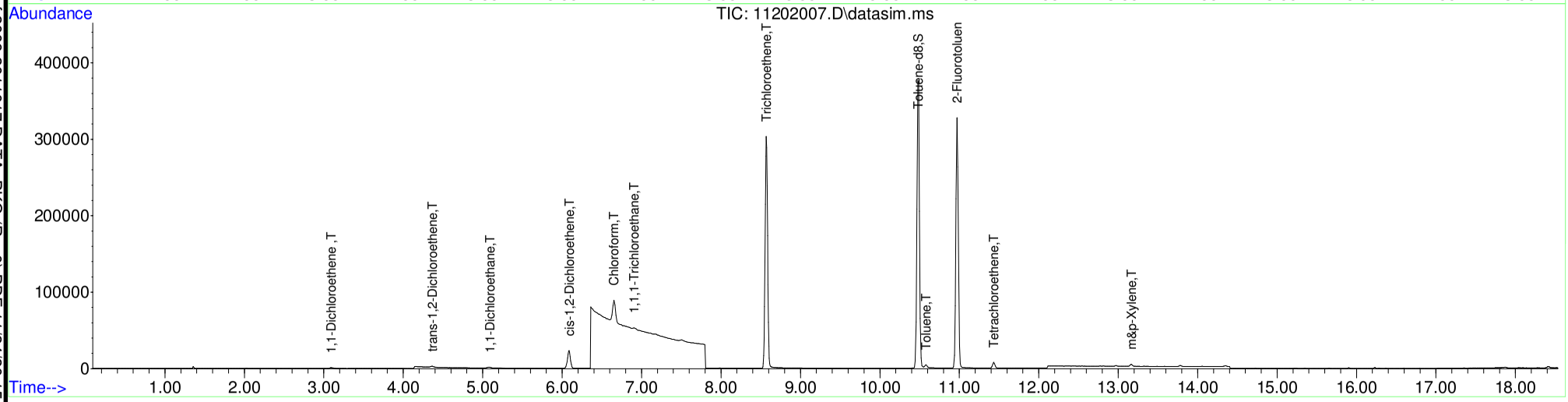
Quantitation Report (QT Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202007.D
Acq On : 20 Nov 2020 12:02 pm
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-20RE1
Misc : 10X DL (180-20)
ALS Vial : 7
Multiplier: 10

Quant Time: Nov 23 14:38:35 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M





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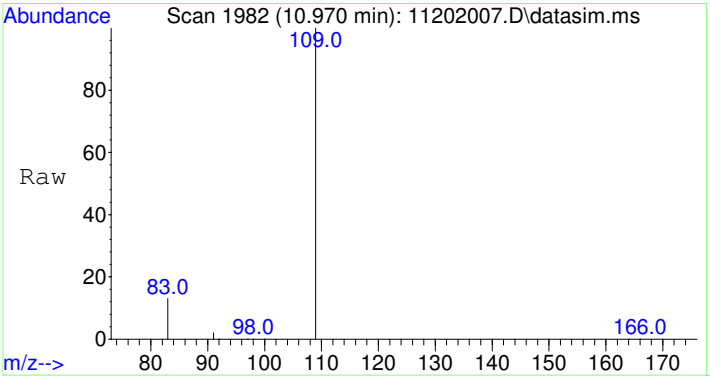
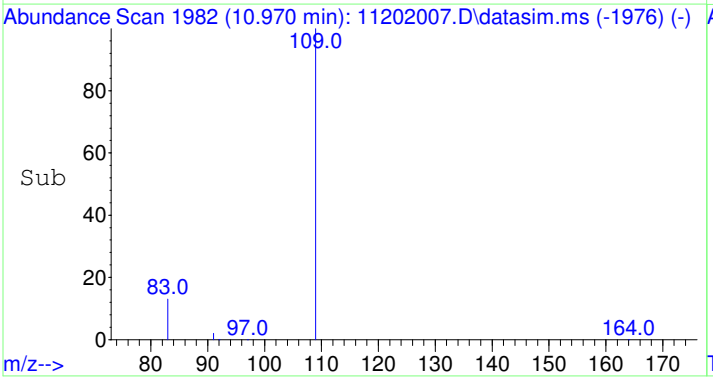
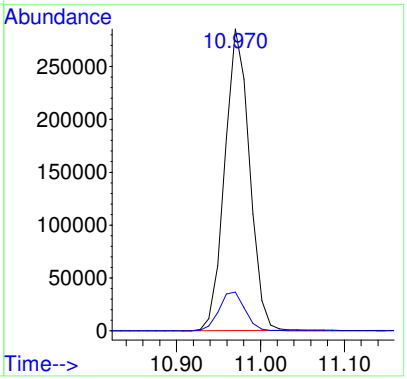


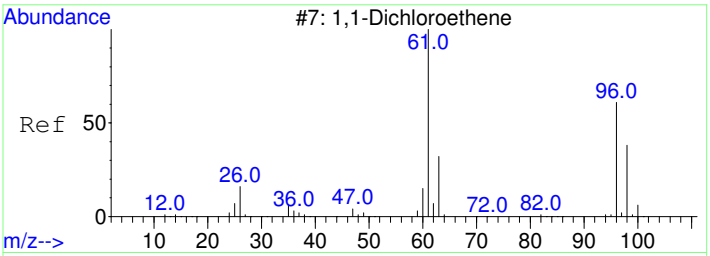
#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion:109 Resp: 582943

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3



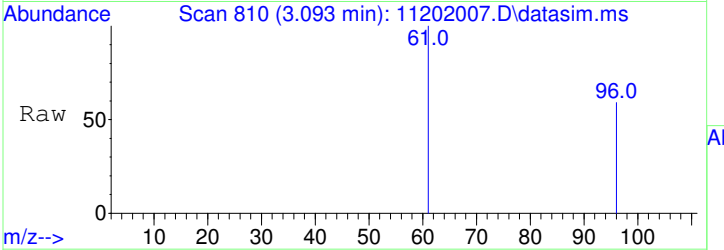


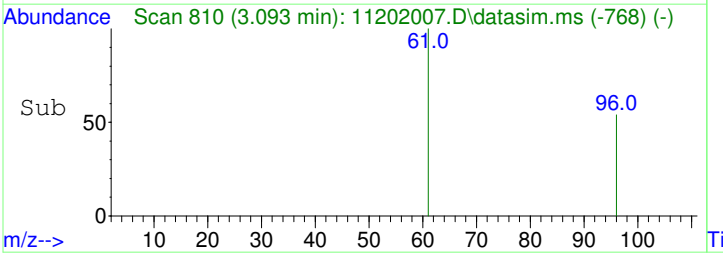


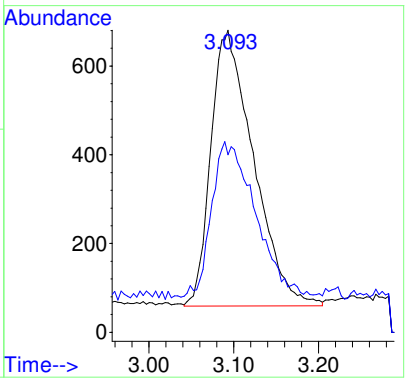
#2
1,1-Dichloroethene
Concen: 93.22 ug/L m
RT: 3.093 min Scan# 810
Delta R.T. 0.007 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

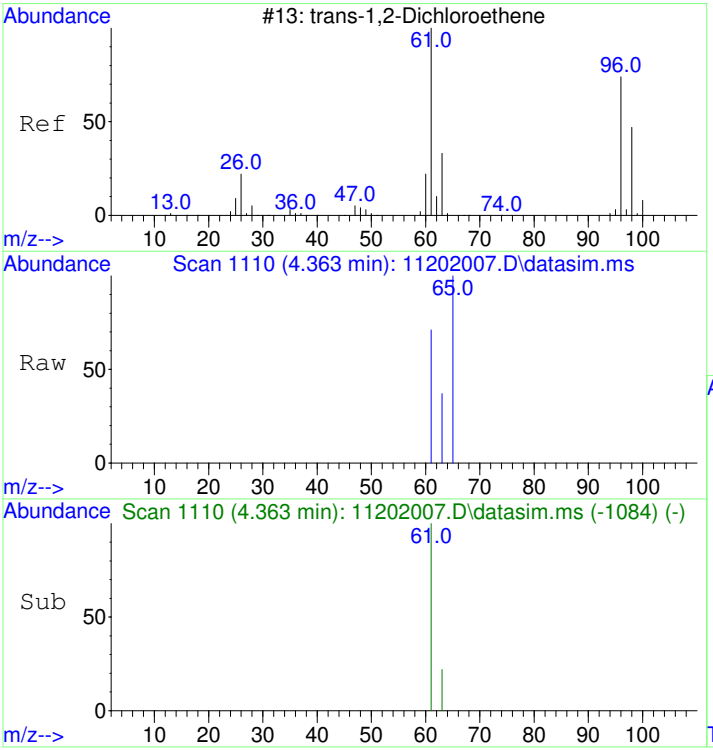
Tgt Ion: 61 Resp: 2170

Ion	Ratio	Lower	Upper
61	100		
96	68.5	37.2	97.2





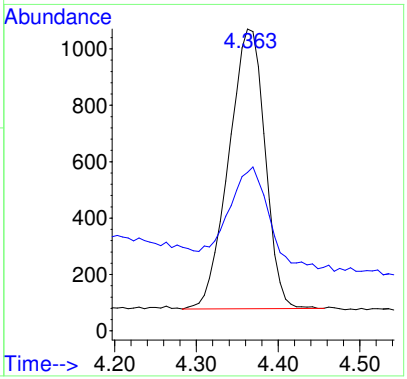


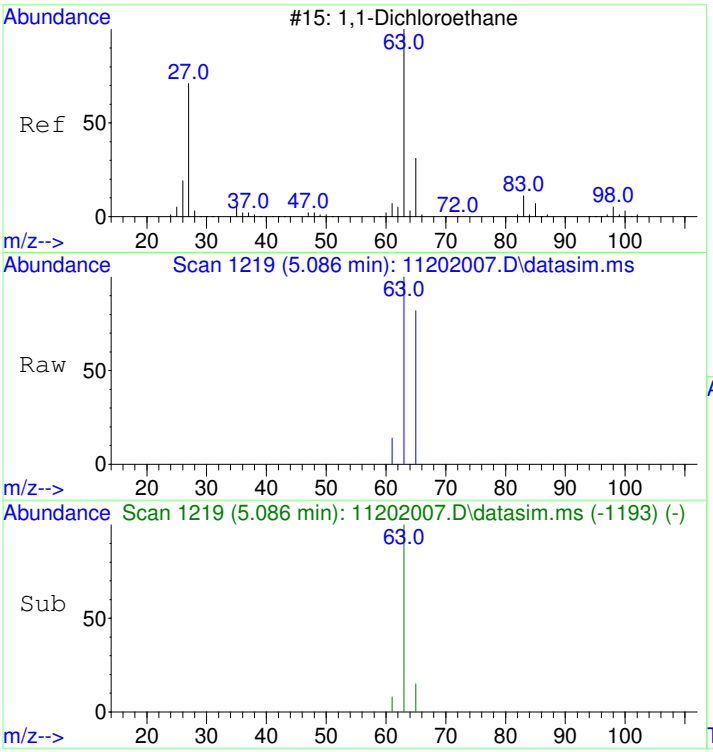


#3
trans-1,2-Dichloroethene
Concen: 113.37 ug/L
RT: 4.363 min Scan# 1110
Delta R.T. 0.020 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 61 Resp: 3049

Ion	Ratio	Lower	Upper
61	100		
63	44.4	2.4	62.4

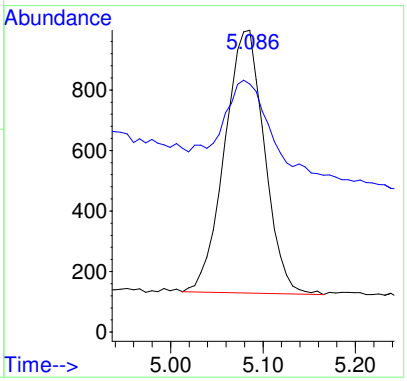


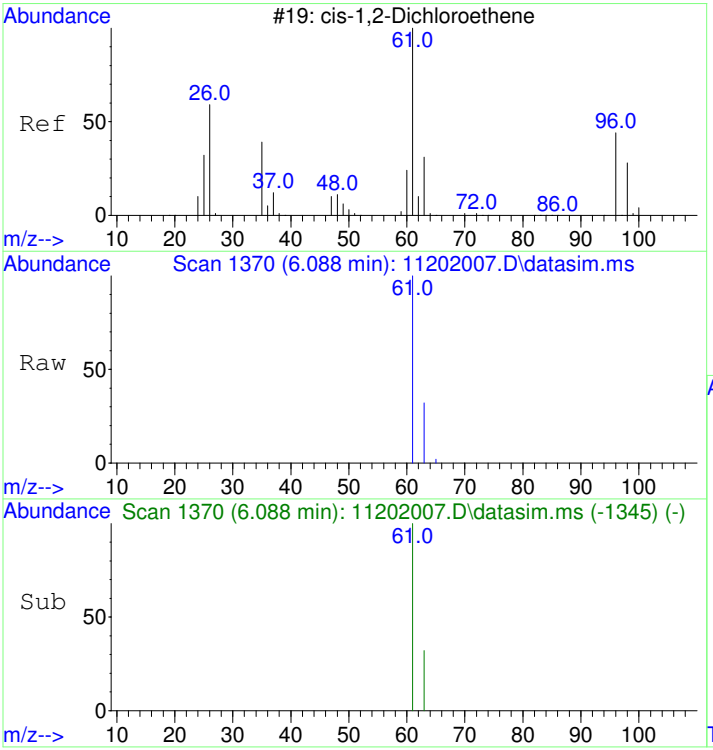


#4
1,1-Dichloroethane
Concen: 77.90 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 63 Resp: 2608

Ion	Ratio	Lower	Upper
63	100		
65	49.1	1.8	61.8

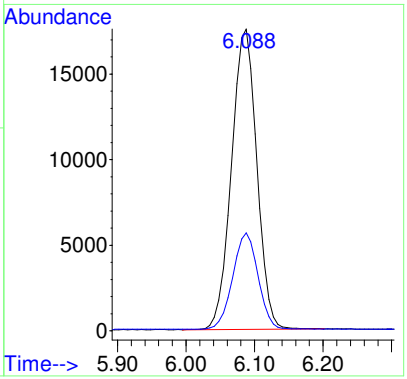


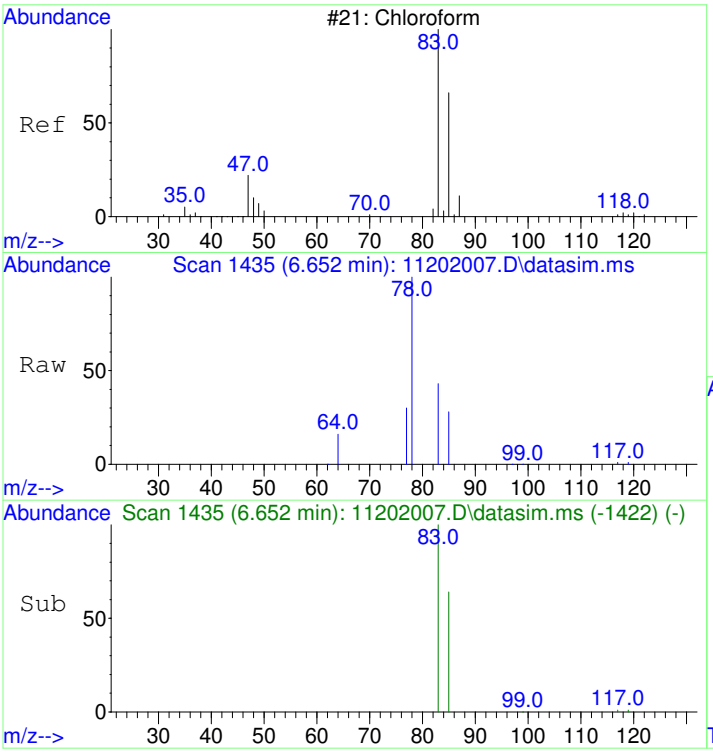


#5
cis-1,2-Dichloroethene
Concen: 1273.38 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 61 Resp: 45000

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

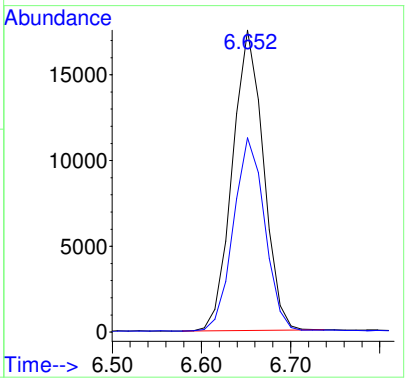


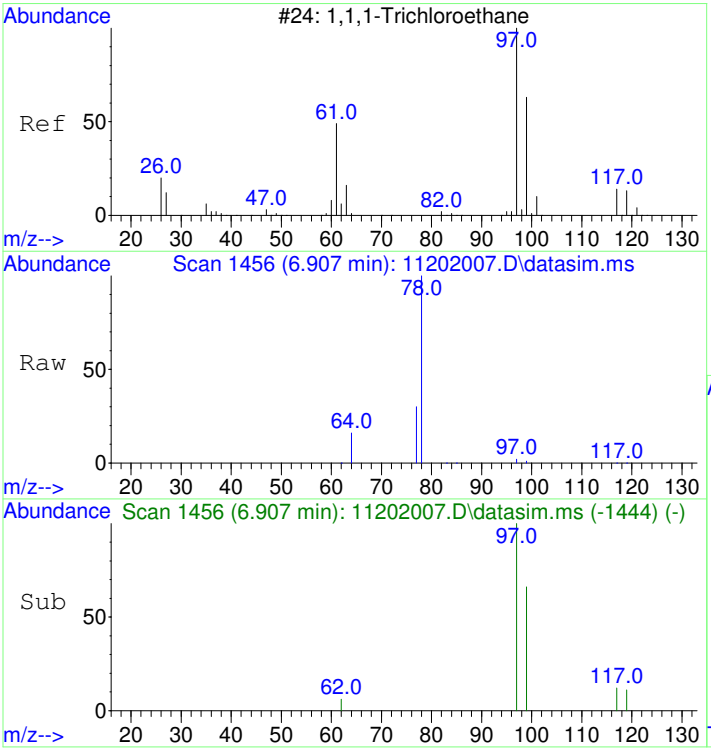


#6
Chloroform
Concen: 1167.16 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 83 Resp: 42217

Ion	Ratio	Lower	Upper
83	100		
85	64.7	35.1	95.1

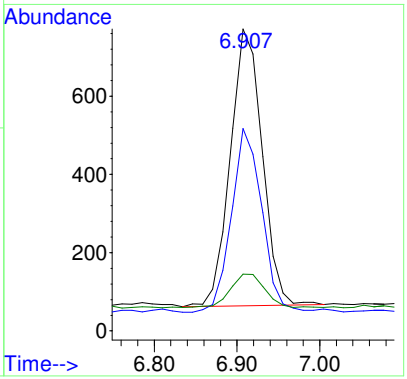


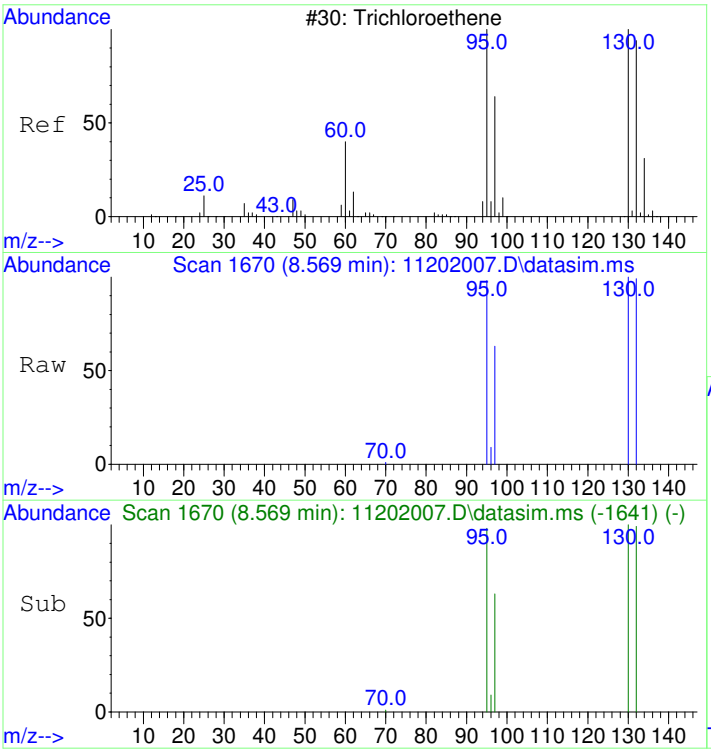


#7
1,1,1-Trichloroethane
Concen: 48.47 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. 0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 97 Resp: 1904

Ion	Ratio	Lower	Upper
97	100		
99	63.1	34.6	94.6
117	13.6	0.0	43.2

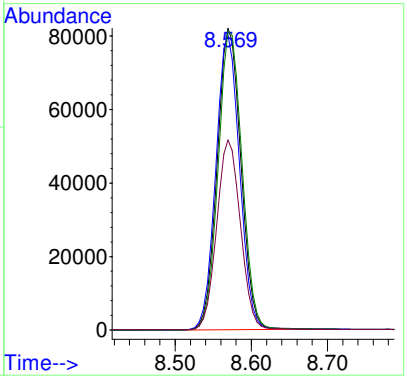


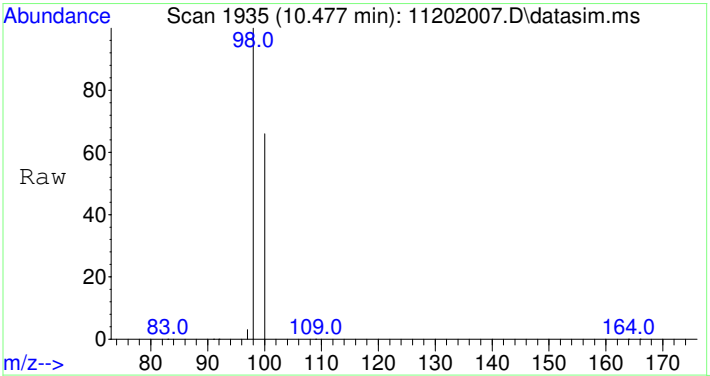


#11
Trichloroethene
Concen: 5950.29 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion:130 Resp: 177445

Ion	Ratio	Lower	Upper
130	100		
95	97.6	60.7	120.7
132	99.3	76.0	116.0
97	62.8	38.6	78.6

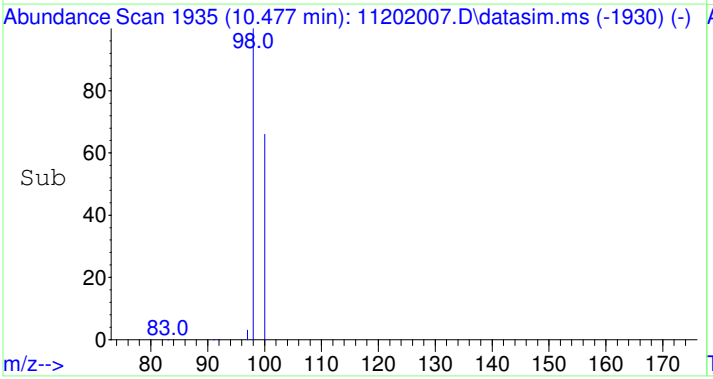


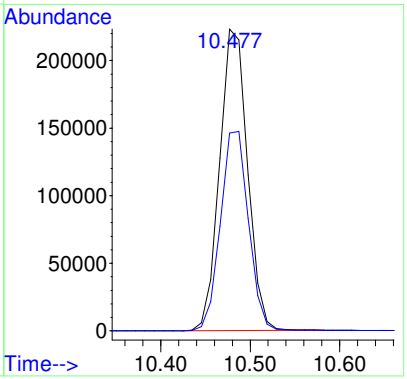


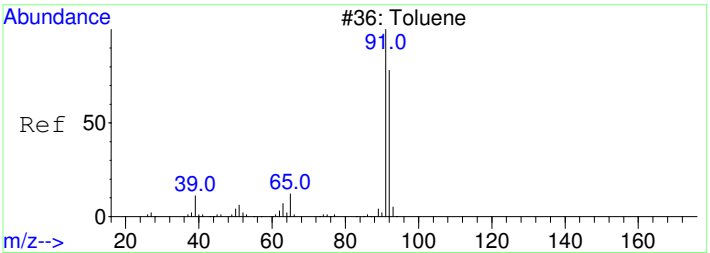
#12
Toluene-d8
Concen: 4247.31 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

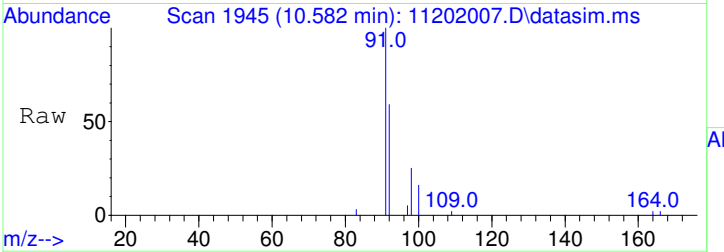
Tgt Ion: 98 Resp: 484692

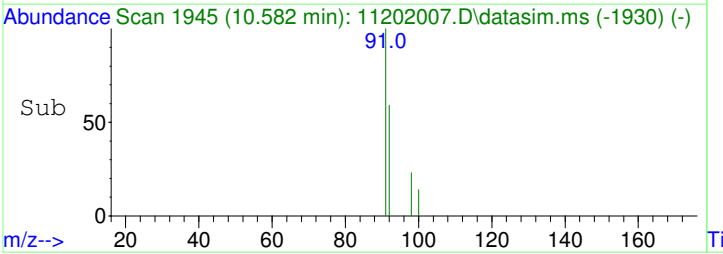
Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1







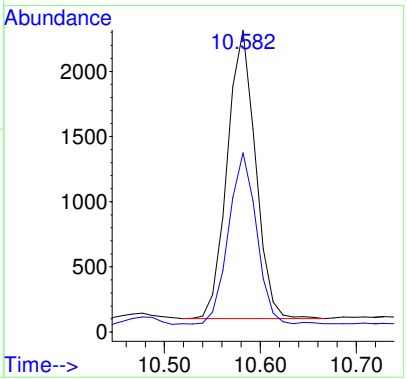


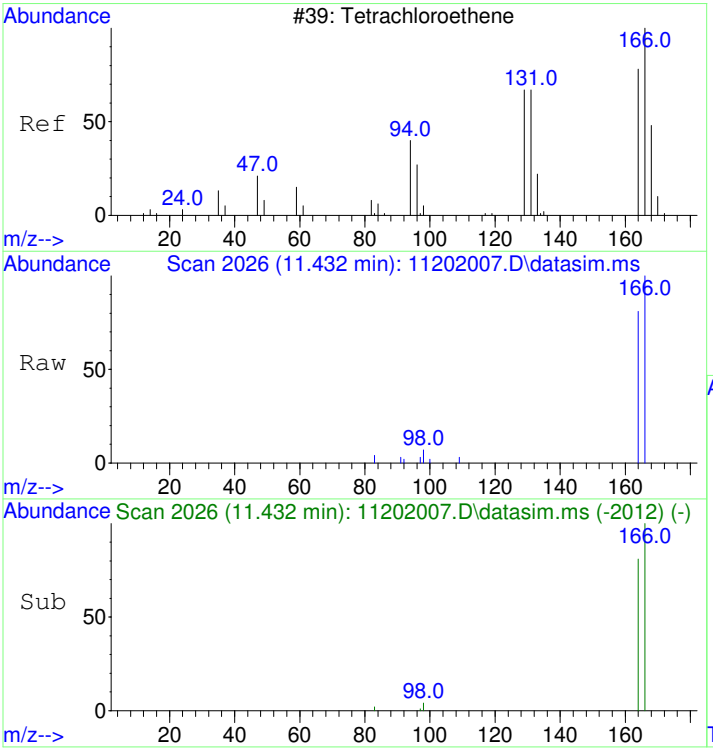


#13
Toluene
Concen: 31.03 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 91 Resp: 4514

Ion	Ratio	Lower	Upper
91	100		
92	58.3	29.9	89.9

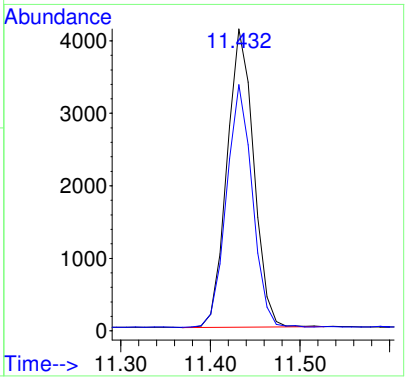


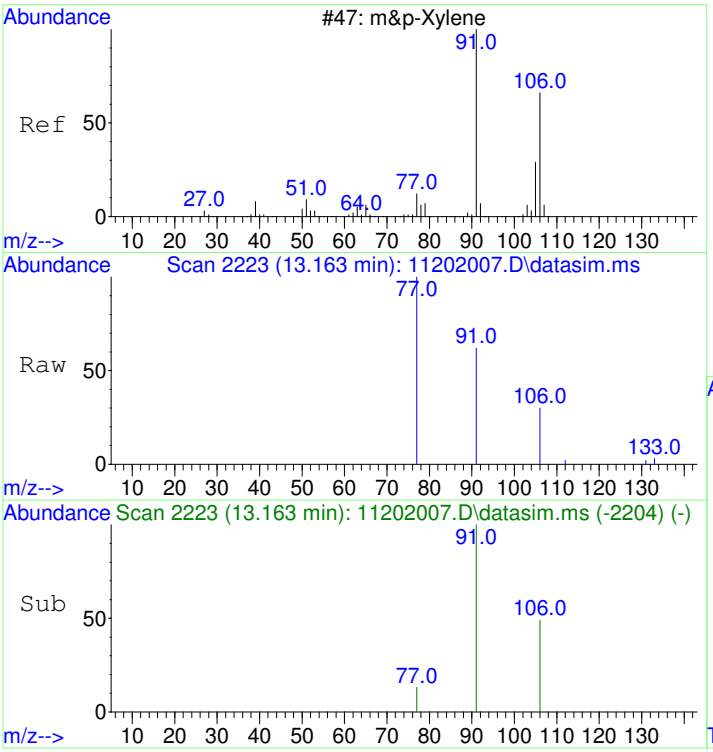


#15
Tetrachloroethene
Concen: 202.31 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion:166 Resp: 8518

Ion	Ratio	Lower	Upper
166	100		
164	78.5	47.8	107.8

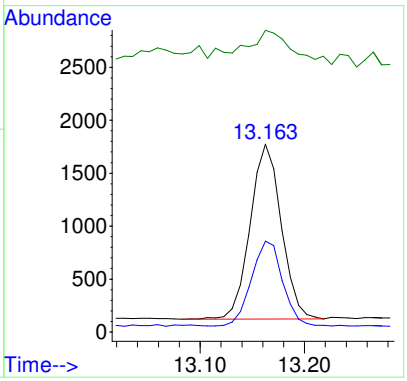


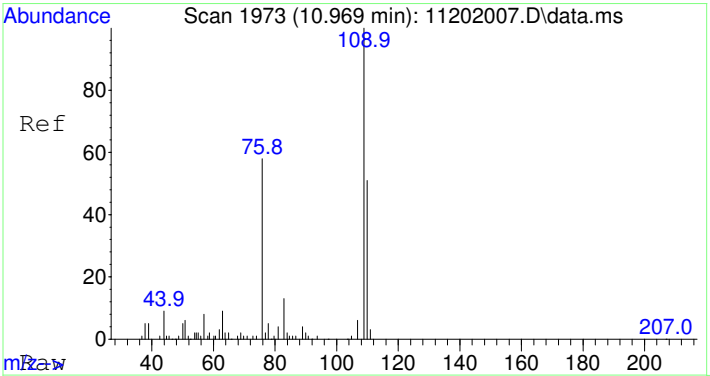


#19
m&p-Xylene
Concen: 24.57 ug/L
RT: 13.163 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 91 Resp: 3401

Ion	Ratio	Lower	Upper
91	100		
106	48.5	22.2	82.2
77	31.4	0.0	42.4

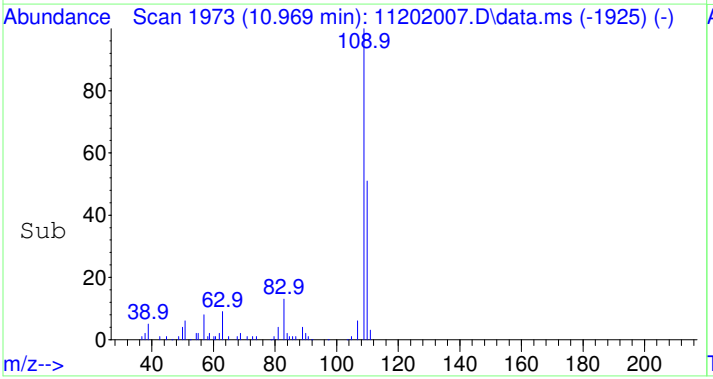


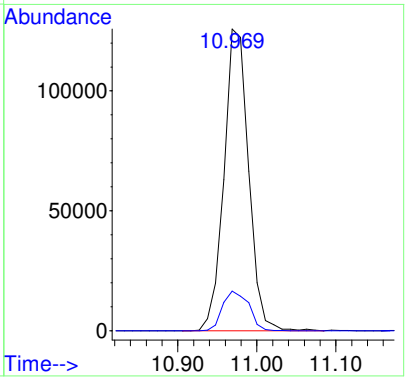


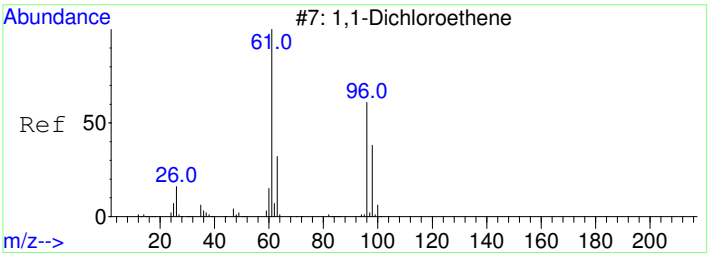
#25
2-Fluorotoluene SCAN
Concen: 4792.12 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion:109 Resp: 272318

Ion	Ratio	Lower	Upper
109	100		
83	14.1	0.0	43.8



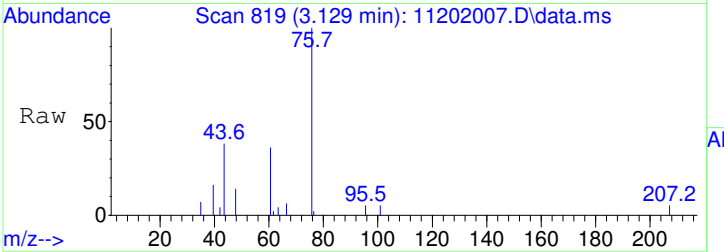


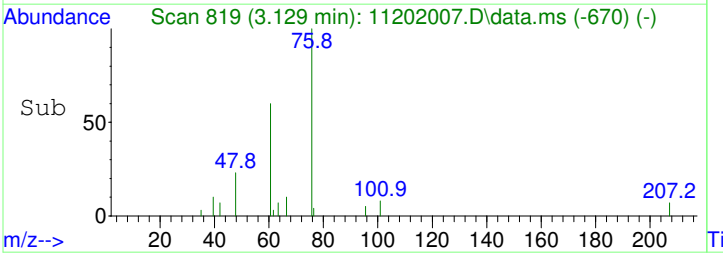


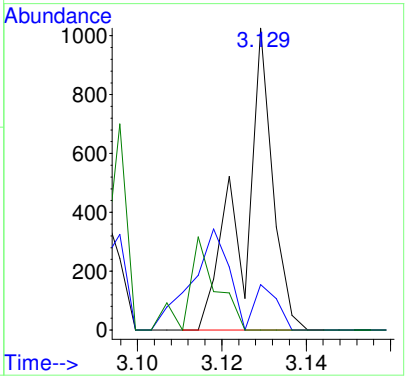
#26
1,1-Dichloroethene SCAN
Concen: 41.18 ug/L
RT: 3.129 min Scan# 819
Delta R.T. 0.052 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

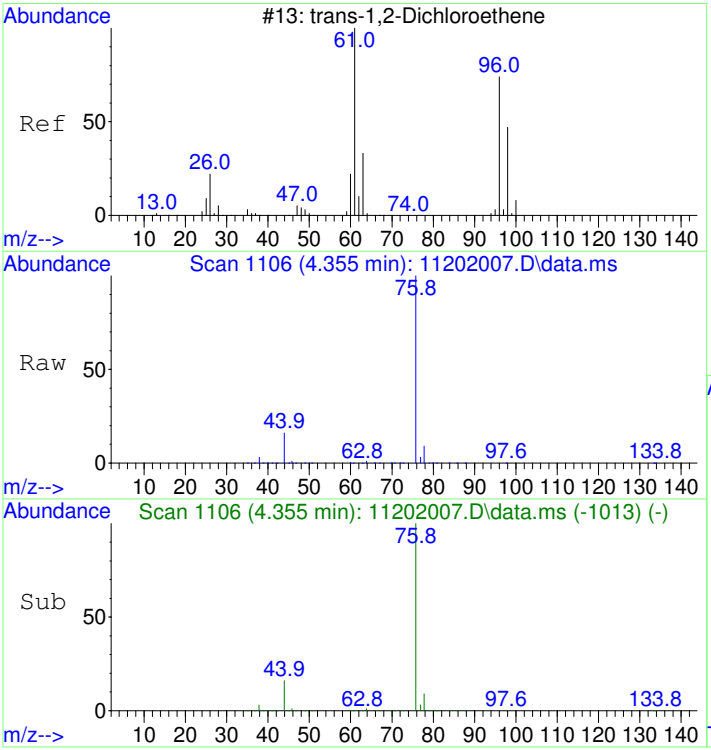
Tgt Ion: 61 Resp: 497

Ion	Ratio	Lower	Upper
61	100		
96	42.5	33.1	93.1
98	29.8	11.2	71.2





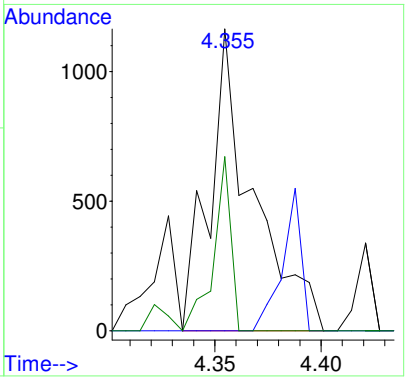


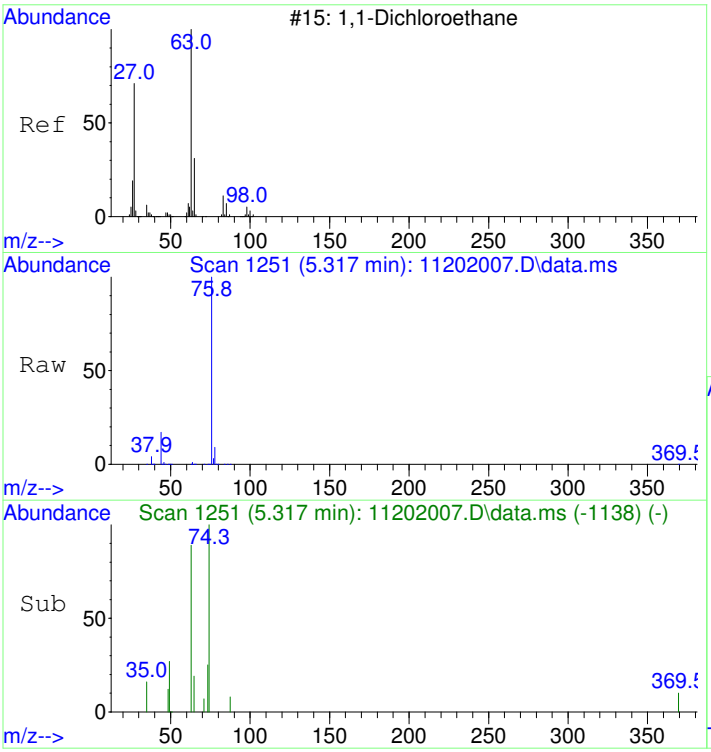


#27
trans-1,2-Dichloroethene SCAN
Concen: 111.02 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. 0.007 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 61 Resp: 1658

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	22.7	20.5	80.5

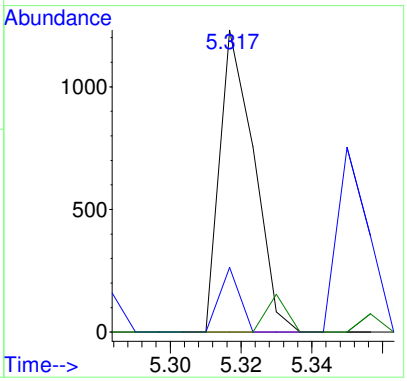


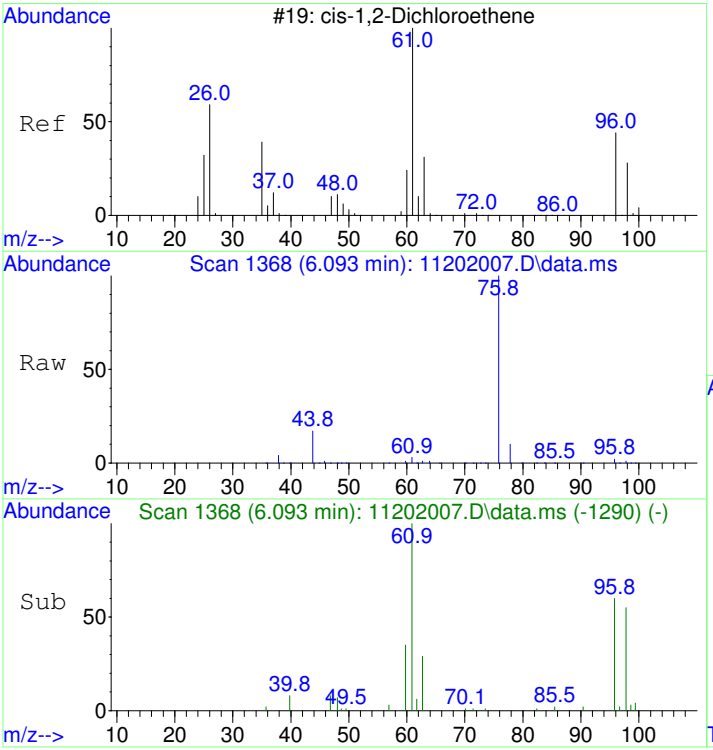


#28
1,1-Dichloroethane SCAN
Concen: 47.62 ug/L
RT: 5.317 min Scan# 1251
Delta R.T. 0.252 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 63 Resp: 823

Ion	Ratio	Lower	Upper
63	100		
65	12.8	1.3	61.3
83	7.4	0.0	45.9

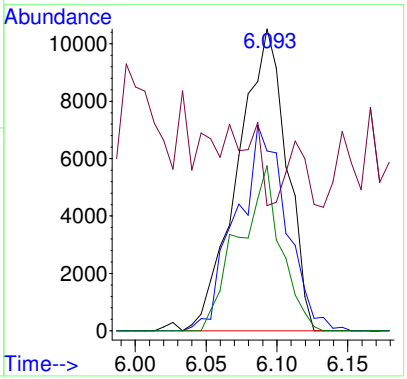


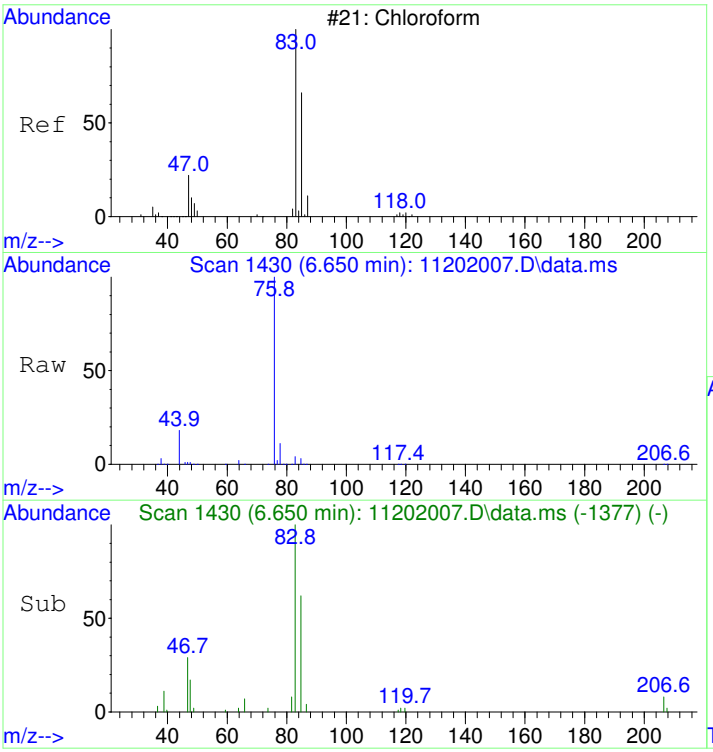


#29
cis-1,2-Dichloroethene SCAN
Concen: 1365.95 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 61 Resp: 25293

Ion	Ratio	Lower	Upper
61	100		
96	69.9	39.9	99.9
98	47.4	13.5	73.5
64	0.0	4.5	64.5#

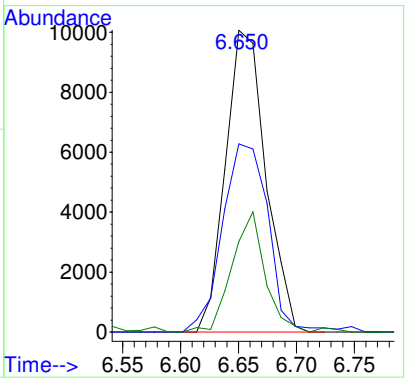


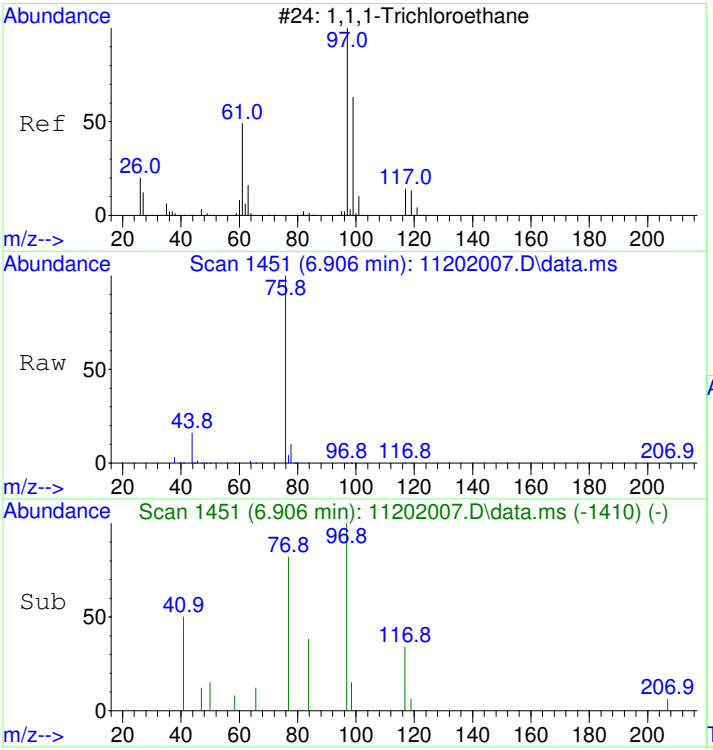


#30
Chloroform SCAN
Concen: 1217.53 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 83 Resp: 24453

Ion	Ratio	Lower	Upper
83	100		
85	71.1	34.6	94.6
47	33.1	0.0	53.4

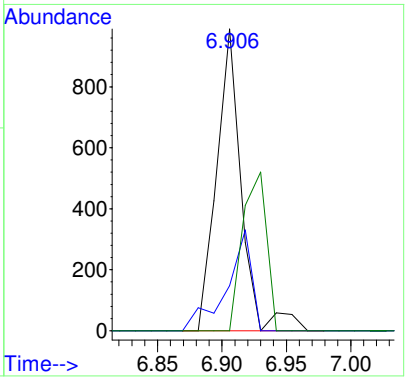


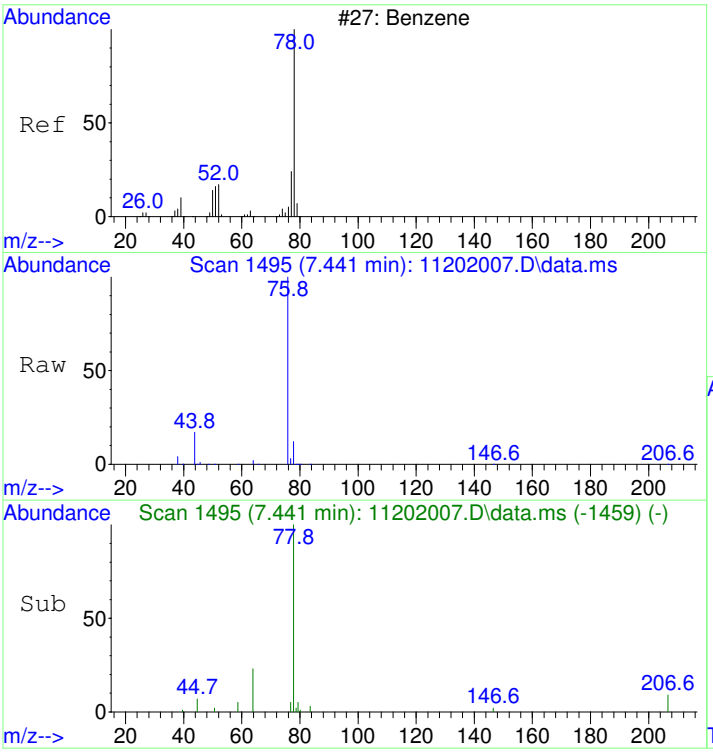


#31
1,1,1-Trichloroethane SCAN
Concen: 72.50 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 97 Resp: 1327

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	0.0	18.0	78.0#

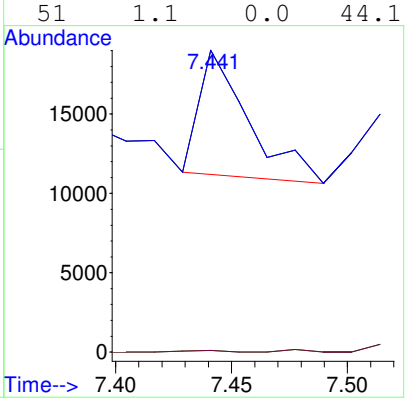


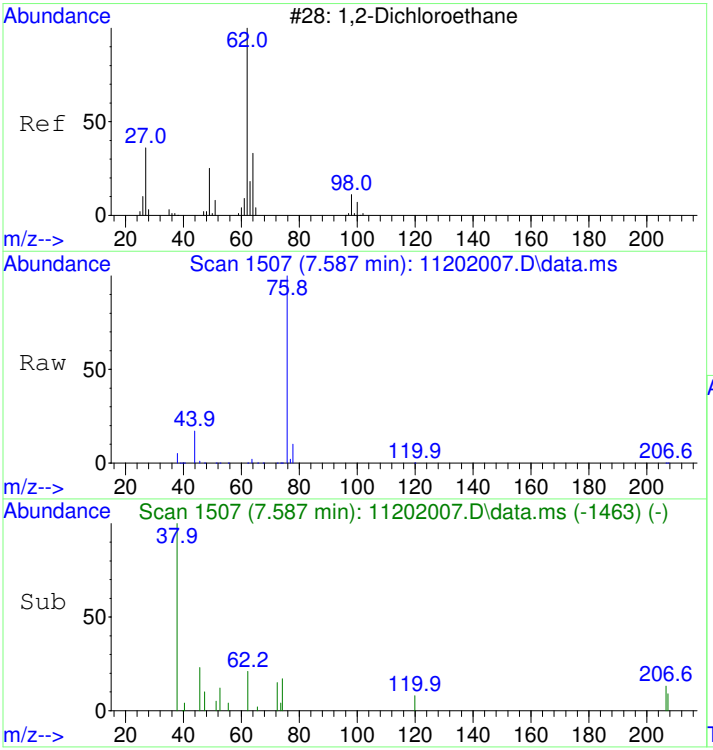


#33
Benzene SCAN
Concen: 225.19 ug/L
RT: 7.441 min Scan# 1495
Delta R.T. -0.061 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 78 Resp: 11348

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.1	0.0	47.9
51	1.1	0.0	44.1

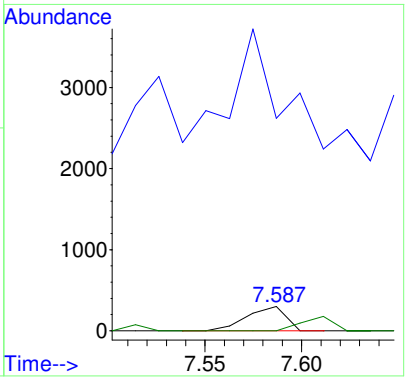


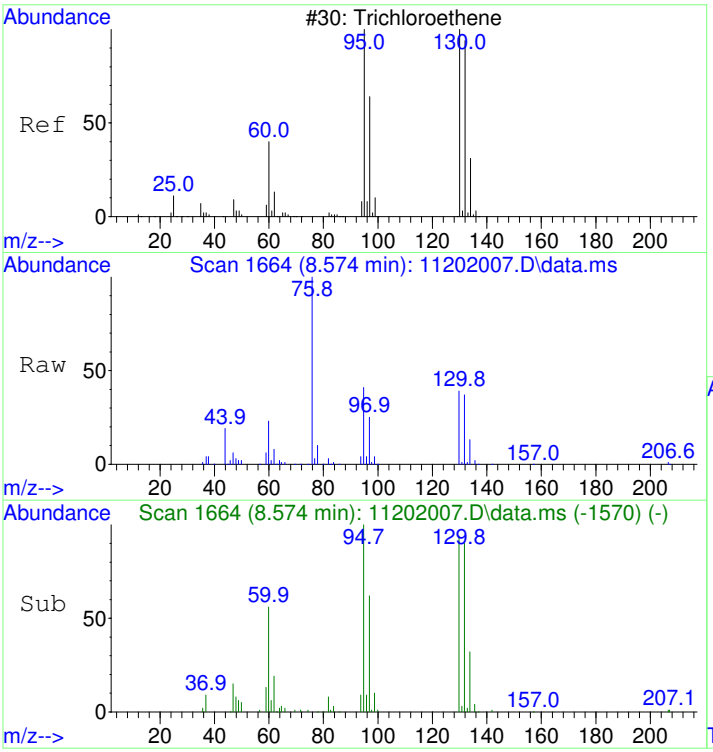


#34
1,2-Dichloroethane SCAN
Concen: 22.52 ug/L
RT: 7.587 min Scan# 1507
Delta R.T. 0.036 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 62 Resp: 419

Ion	Ratio	Lower	Upper
62	100		
64	547.5	5.2	65.2#
49	0.0	3.9	63.9#

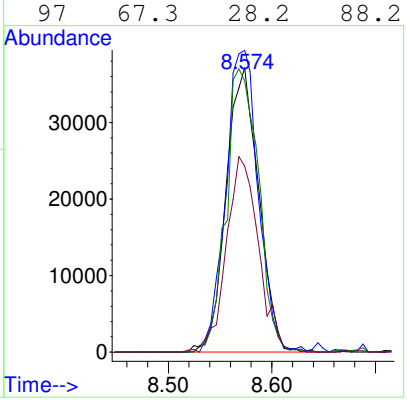


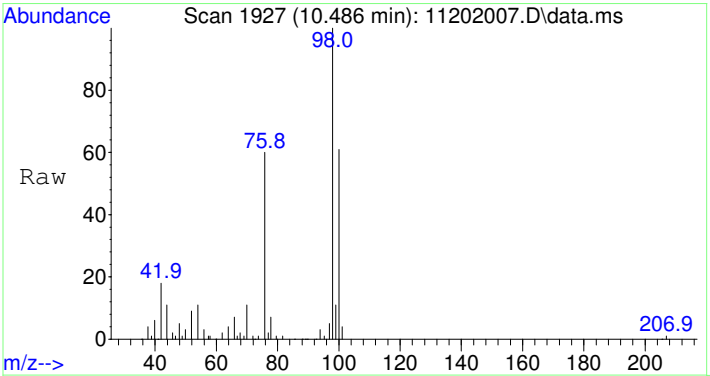


#35
Trichloroethene SCAN
Concen: 5891.34 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion:130 Resp: 81585

Ion	Ratio	Lower	Upper
130	100		
95	105.2	60.5	120.5
132	99.1	59.6	119.6
97	67.3	28.2	88.2

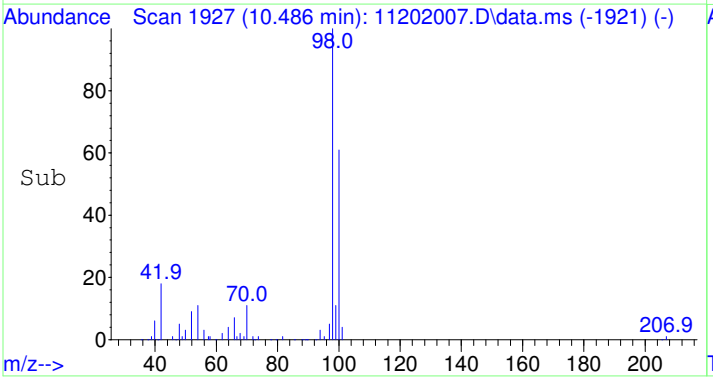


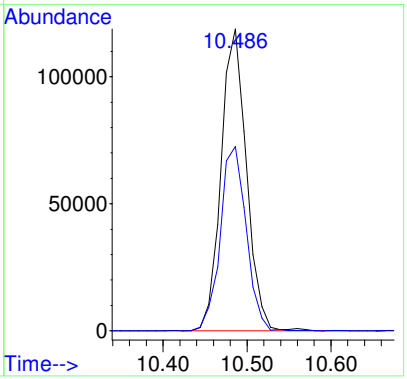


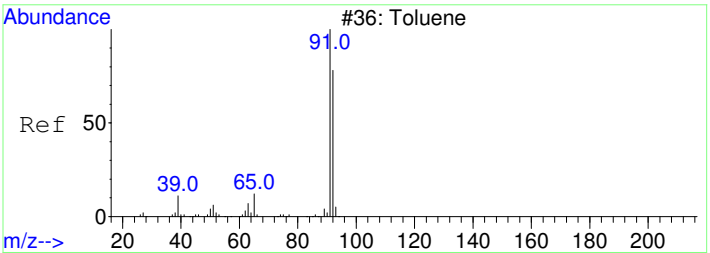
#36
Toluene-d8 SCAN
Concen: 4489.40 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 98 Resp: 249495

Ion	Ratio	Lower	Upper
98	100		
100	62.6	40.0	100.0



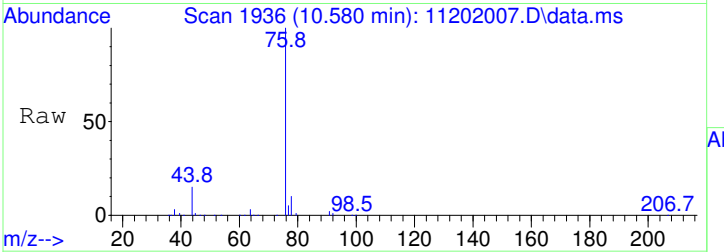


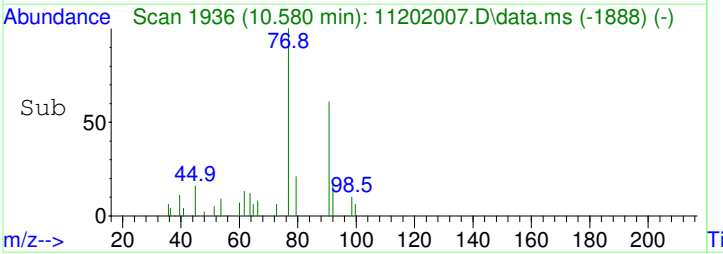


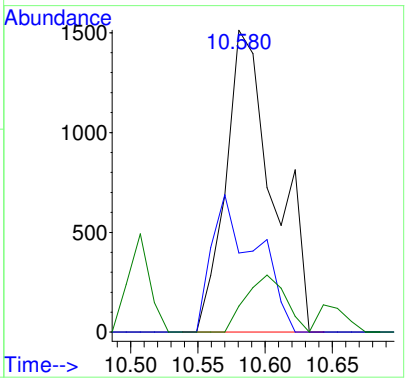
#37
Toluene SCAN
Concen: 52.65 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

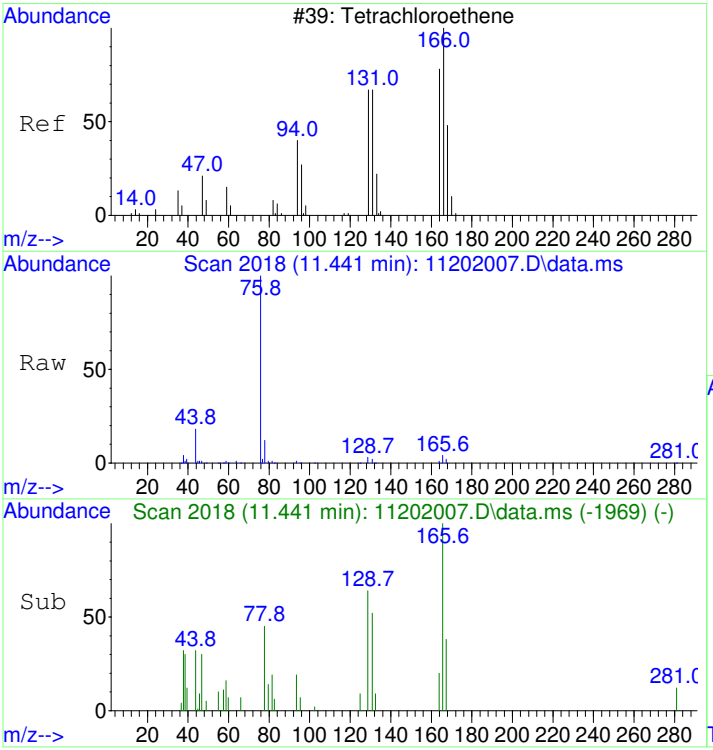
Tgt Ion: 91 Resp: 3747

Ion	Ratio	Lower	Upper
91	100		
92	42.5	28.3	88.3
65	0.0	0.0	41.0





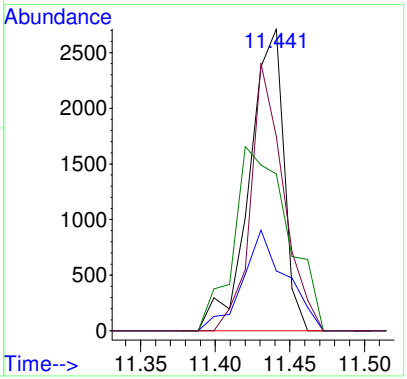


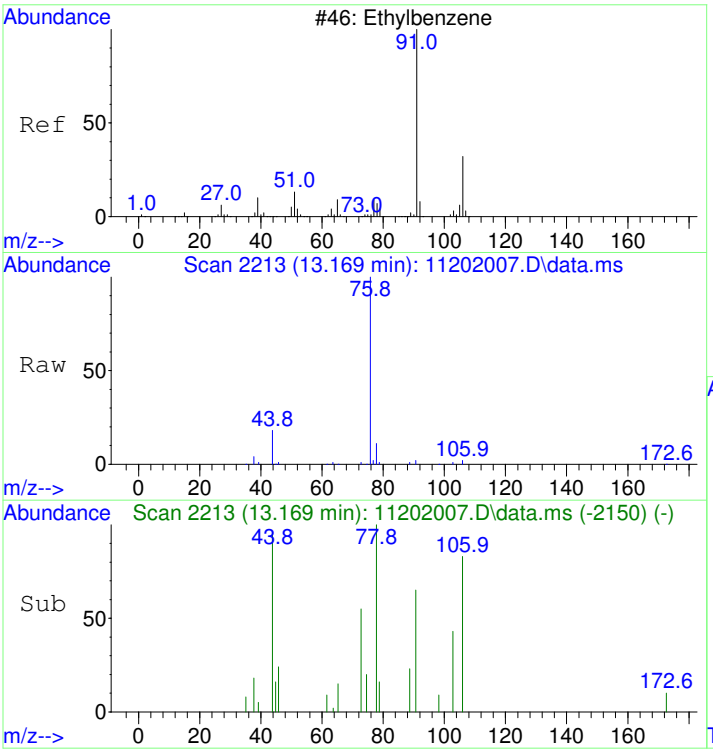


#39
Tetrachloroethene SCAN
Concen: 256.98 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion:166 Resp: 4394

Ion	Ratio	Lower	Upper
166	100		
164	41.8	50.9	110.9#
131	0.0	38.7	98.7#
129	84.4	41.8	101.8

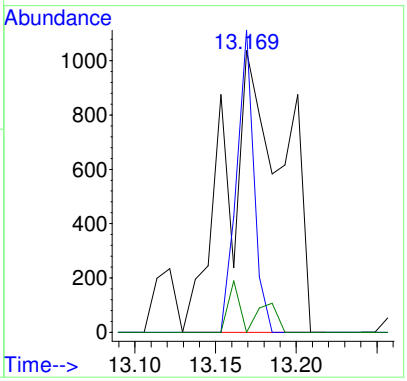


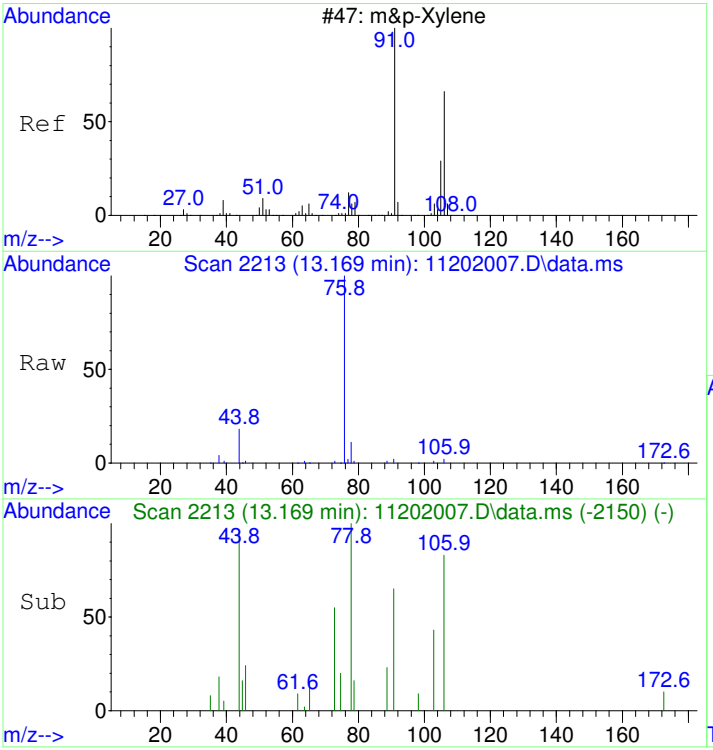


#42
Ethylbenzene SCAN
Concen: 20.09 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 91 Resp: 2605

Ion	Ratio	Lower	Upper
91	100		
106	31.9	23.1	83.1
51	7.0	0.0	40.1

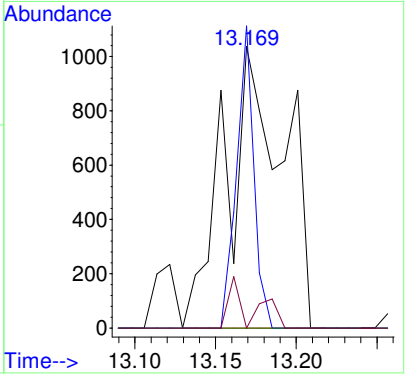




#43
m&p-Xylene SCAN
Concen: 20.09 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 91 Resp: 2605

Ion	Ratio	Lower	Upper
91	100		
106	31.9	23.1	83.1
105	0.0	0.0	54.7
51	7.0	0.0	40.1



Quantitation Report (Not Reviewed)

Table of Contents

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202007.D
Acq On : 20 Nov 2020 12:02 pm
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-20RE1
Misc : 10X DL (180-20)
ALS Vial : 7
Multiplier: 10

Before Manual Integration

Quant Time: Nov 23 14:38:04 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	582943	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	484692	4247.31	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 84.95%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.093	61	2660	114.27	ug/L	86
3] trans-1,2-Dichloroethene	4.363	61	3049	113.37	ug/L	79
4] 1,1-Dichloroethane	5.086	63	2608	77.90	ug/L	69
5] cis-1,2-Dichloroethene	6.088	61	45000	1273.38	ug/L	99
6] Chloroform	6.652	83	42217	1167.16	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1904	48.47	ug/L	98
11] Trichloroethene	8.569	130	177445	5950.29	ug/L	95
13] Toluene	10.582	91	4514	31.03	ug/L	98
15] Tetrachloroethene	11.432	166	8518	202.31	ug/L	99
19] m&p-Xylene	13.163	91	3401	24.57	ug/L	86
25) 2-Fluorotoluene SCAN	10.969	109	272318	4792.12	ug/L	99
26) 1,1-Dichloroethene SCAN	3.129	61	497	41.18	ug/L	77
27) trans-1,2-Dichloroethe...	4.355	61	1658	111.02	ug/L #	29
28) 1,1-Dichloroethane SCAN	5.317	63	823	47.62	ug/L	71
29) cis-1,2-Dichloroethene...	6.093	61	25293	1365.95	ug/L #	84
30) Chloroform SCAN	6.650	83	24453	1217.53	ug/L	89
31) 1,1,1-Trichloroethane ...	6.906	97	1327	72.50	ug/L #	19
33) Benzene SCAN	7.441	78	11348	225.19	ug/L	91
34) 1,2-Dichloroethane SCAN	7.587	62	419	22.52	ug/L #	1
35) Trichloroethene SCAN	8.574	130	81585	5891.34	ug/L	87
36) Toluene-d8 SCAN	10.486	98	249495	4489.40	ug/L	91
37) Toluene SCAN	10.580	91	3747	52.65	ug/L #	78
39) Tetrachloroethene SCAN	11.441	166	4394	256.98	ug/L #	53
42) Ethylbenzene SCAN	13.169	91	2605	20.09	ug/L	74
43) m&p-Xylene SCAN	13.169	91	2605	20.09	ug/L #	67

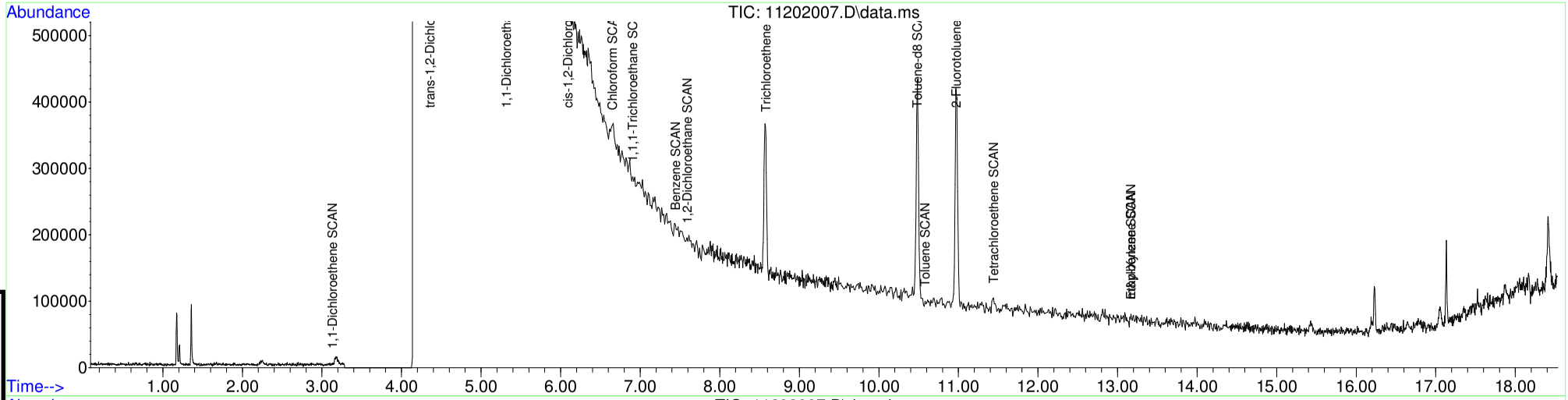
(#) = qualifier out of range (m) = manual integration (+) = signals summed

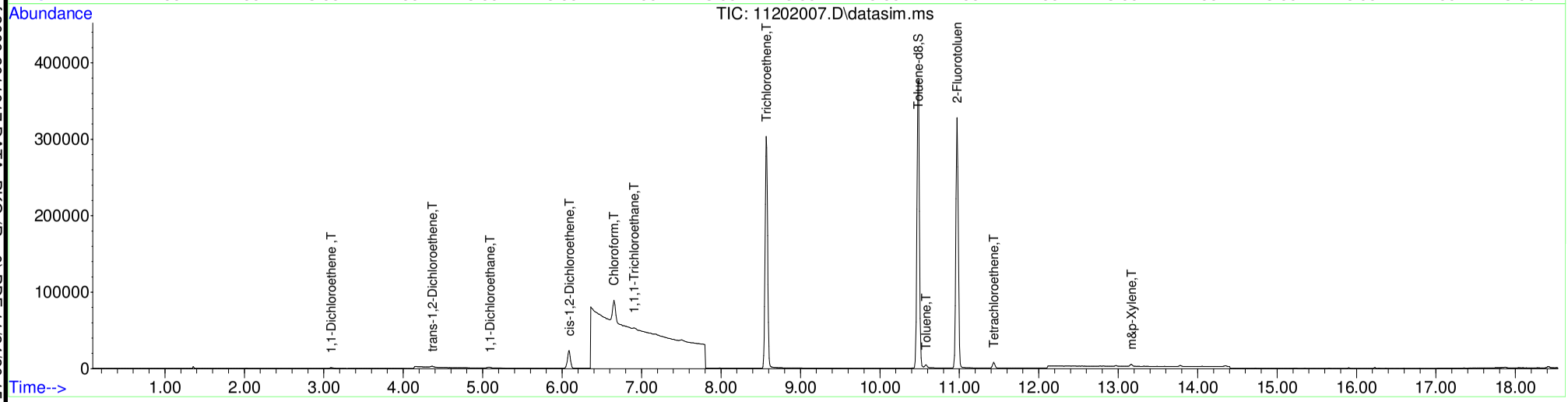
Quantitation Report (Not Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202007.D
Acq On : 20 Nov 2020 12:02 pm
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-20RE1
Misc : 10X DL (180-20)
ALS Vial : 7
Multiplier: 10

Quant Time: Nov 23 14:38:04 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M





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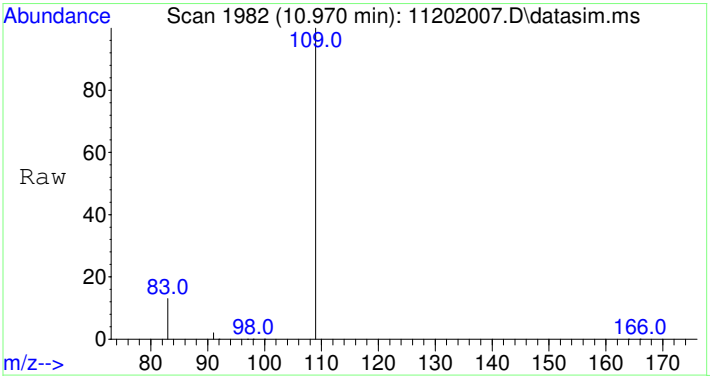
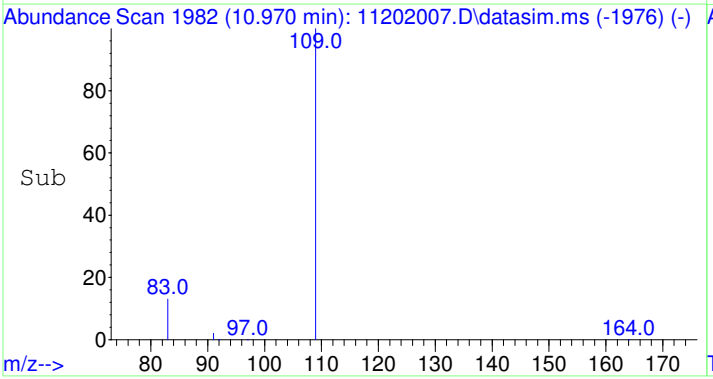
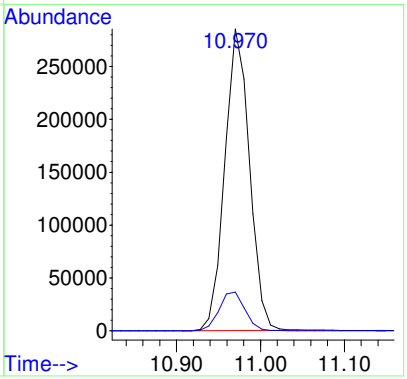


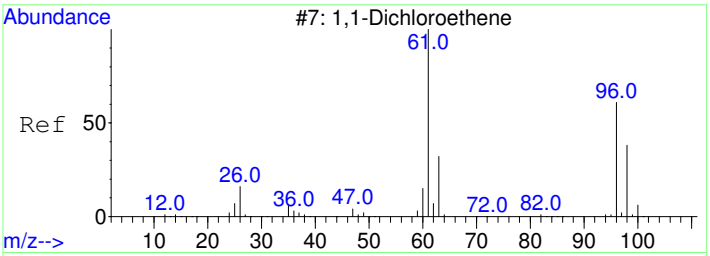
#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion:109 Resp: 582943

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3





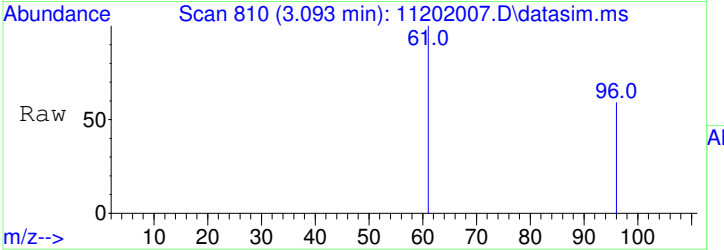


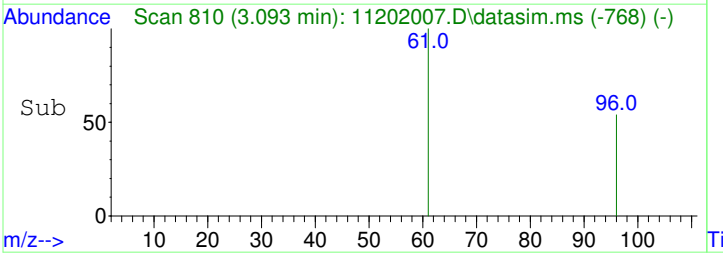
#2
1,1-Dichloroethene
Concen: 114.27 ug/L
RT: 3.093 min Scan# 810
Delta R.T. 0.007 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

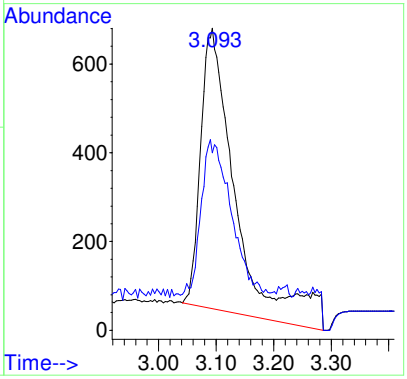
Tgt Ion: 61 Resp: 2660

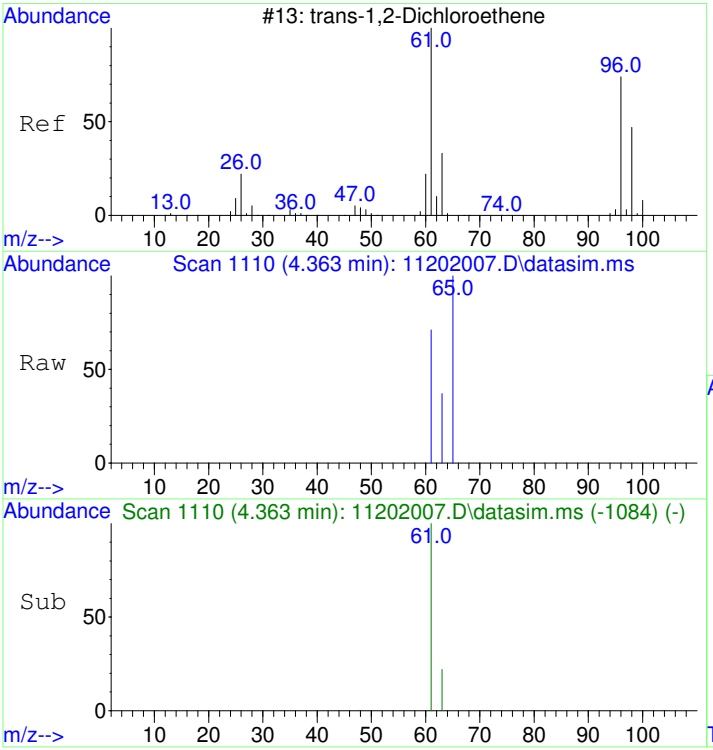
Ion	Ratio	Lower	Upper
61	100		
96	55.9	37.2	97.2

Before MI:
IMPROPER
BASELINE





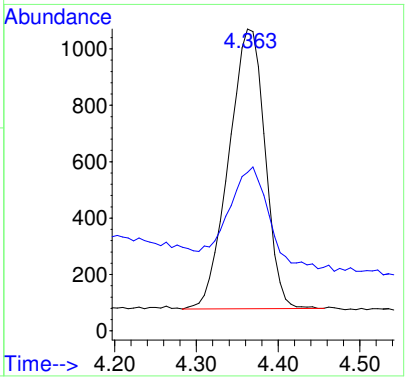


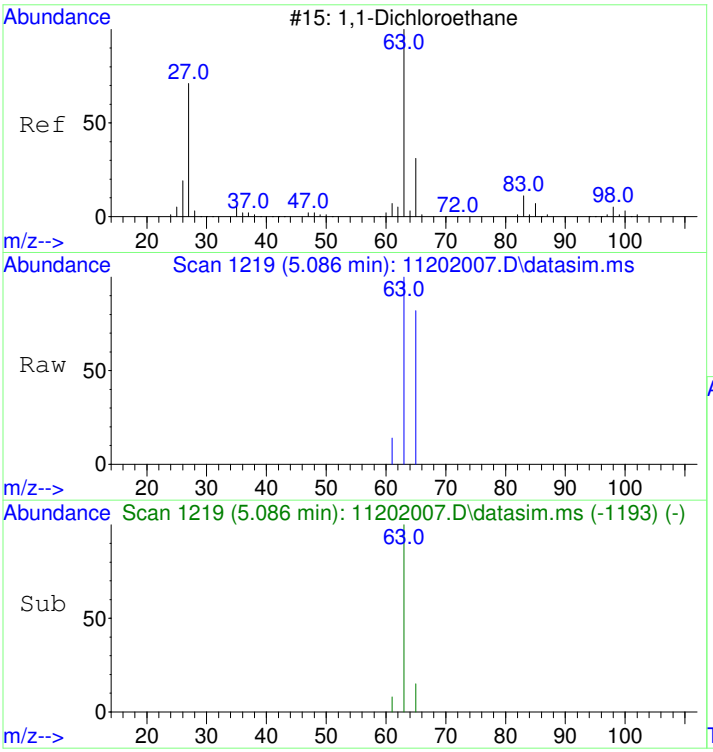


#3
trans-1,2-Dichloroethene
Concen: 113.37 ug/L
RT: 4.363 min Scan# 1110
Delta R.T. 0.020 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 61 Resp: 3049

Ion	Ratio	Lower	Upper
61	100		
63	44.4	2.4	62.4

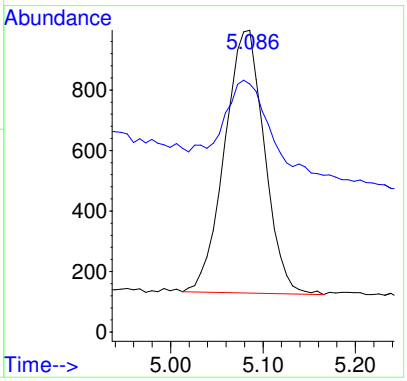


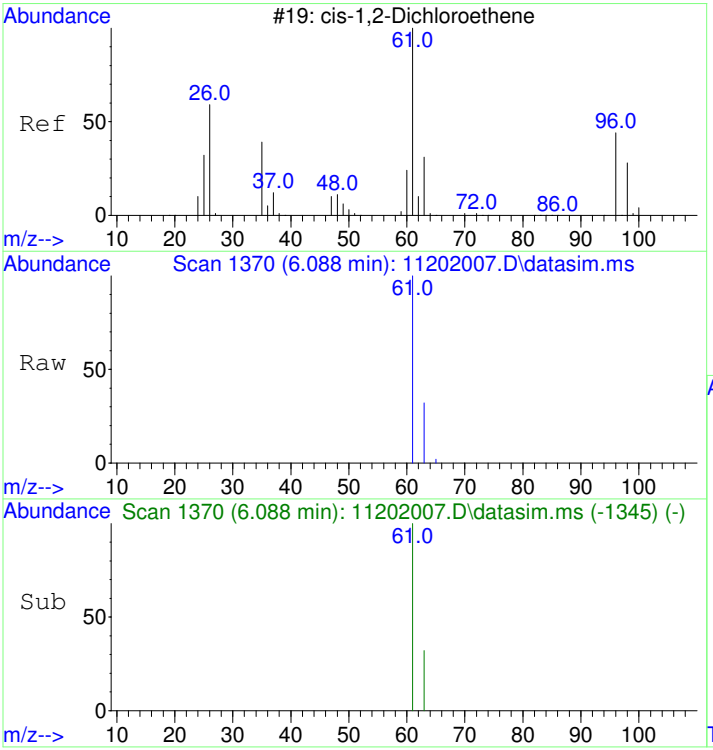


#4
1,1-Dichloroethane
Concen: 77.90 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 63 Resp: 2608

Ion	Ratio	Lower	Upper
63	100		
65	49.1	1.8	61.8

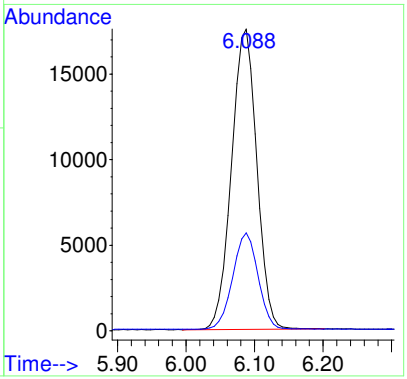


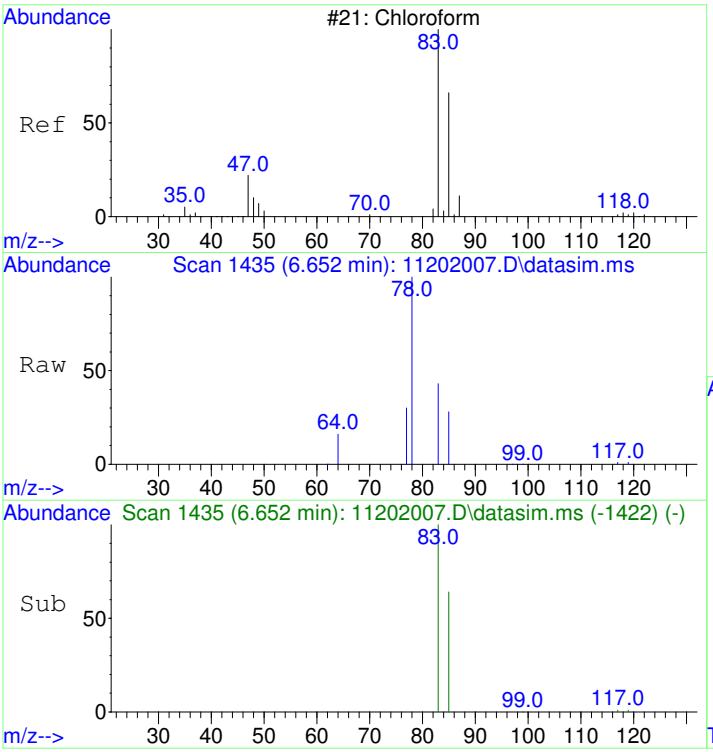


#5
cis-1,2-Dichloroethene
Concen: 1273.38 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 61 Resp: 45000

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

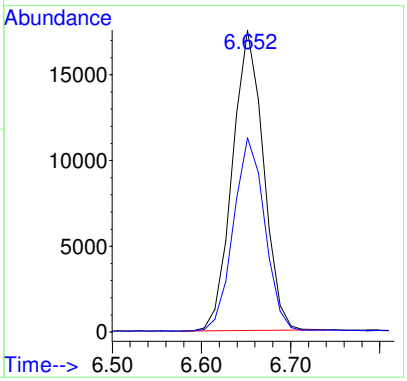


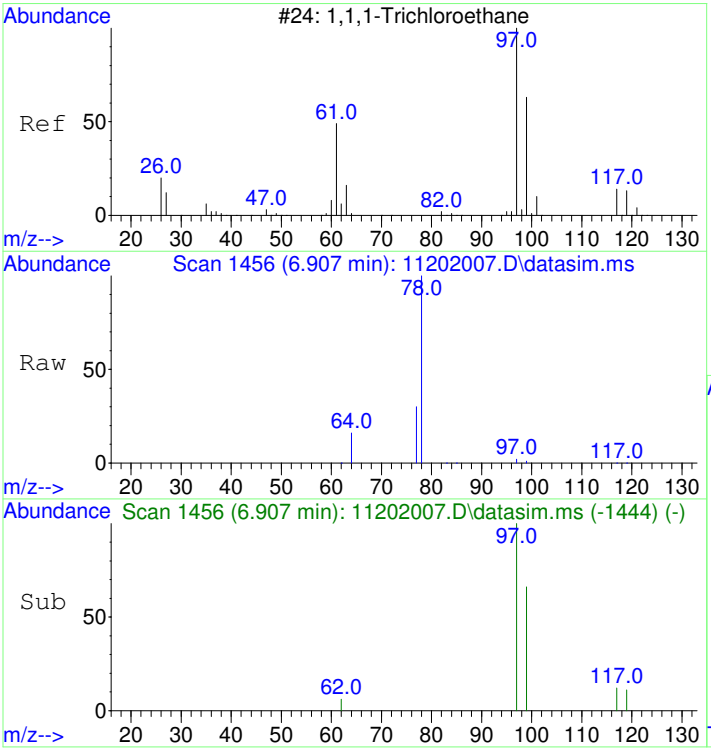


#6
Chloroform
Concen: 1167.16 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 83 Resp: 42217

Ion	Ratio	Lower	Upper
83	100		
85	64.7	35.1	95.1

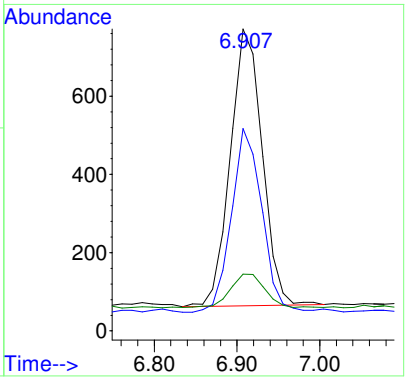


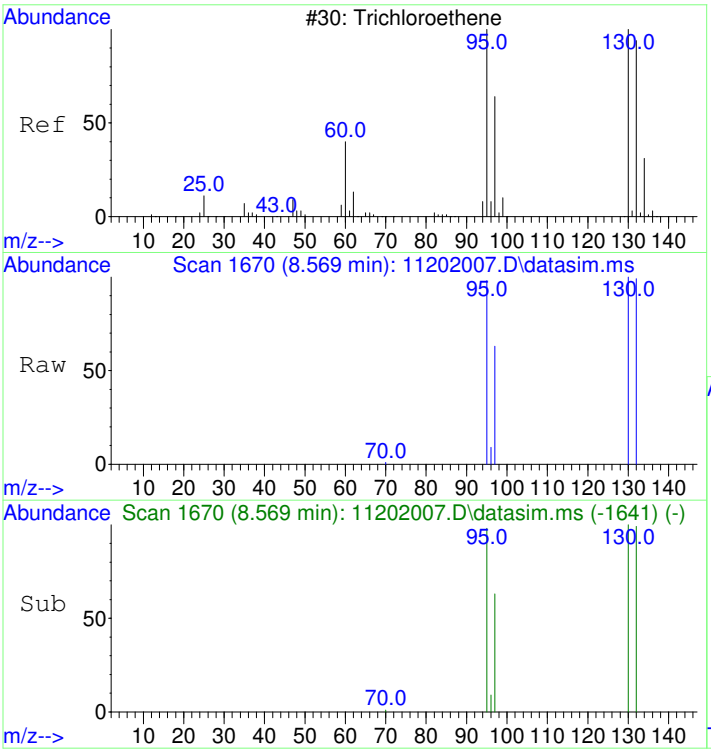


#7
1,1,1-Trichloroethane
Concen: 48.47 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. 0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 97 Resp: 1904

Ion	Ratio	Lower	Upper
97	100		
99	63.1	34.6	94.6
117	13.6	0.0	43.2

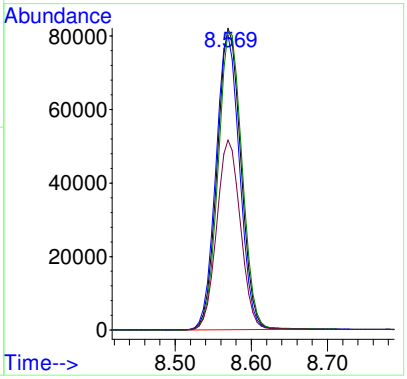


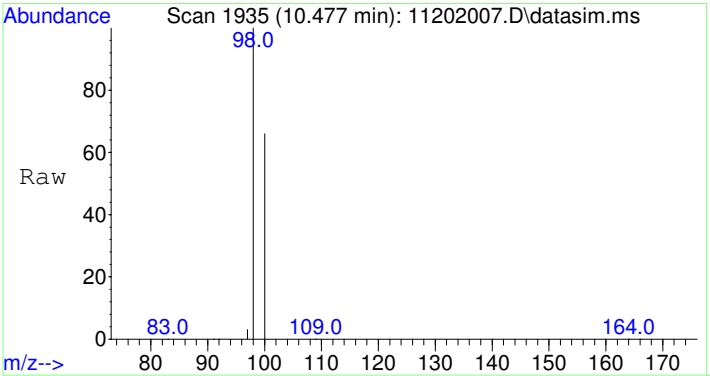


#11
Trichloroethene
Concen: 5950.29 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion:130 Resp: 177445

Ion	Ratio	Lower	Upper
130	100		
95	97.6	60.7	120.7
132	99.3	76.0	116.0
97	62.8	38.6	78.6

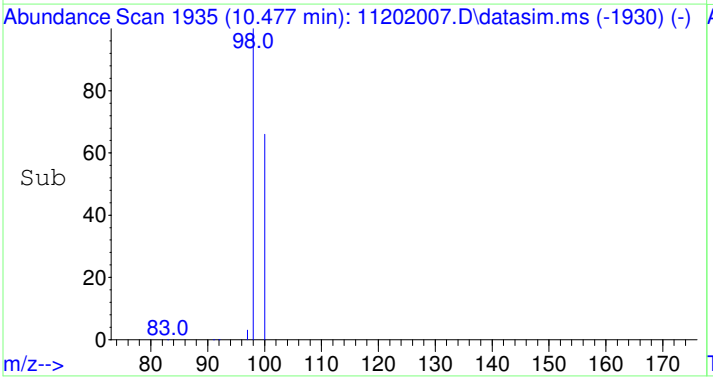


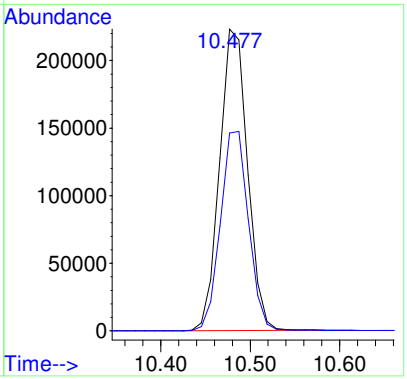


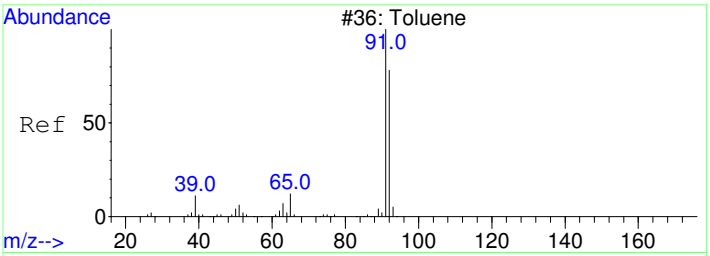
#12
Toluene-d8
Concen: 4247.31 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

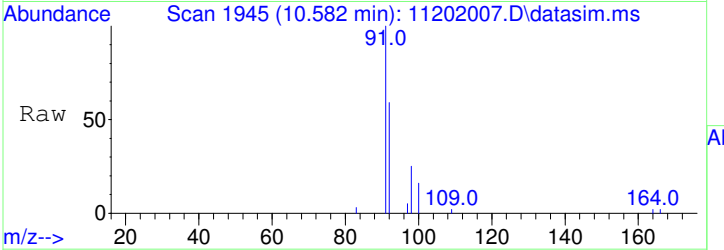
Tgt Ion: 98 Resp: 484692

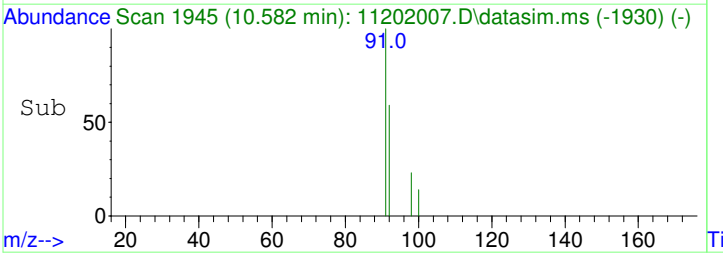
Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1







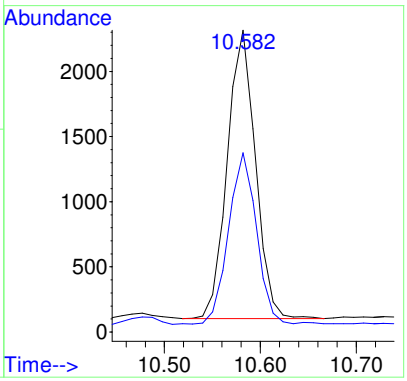


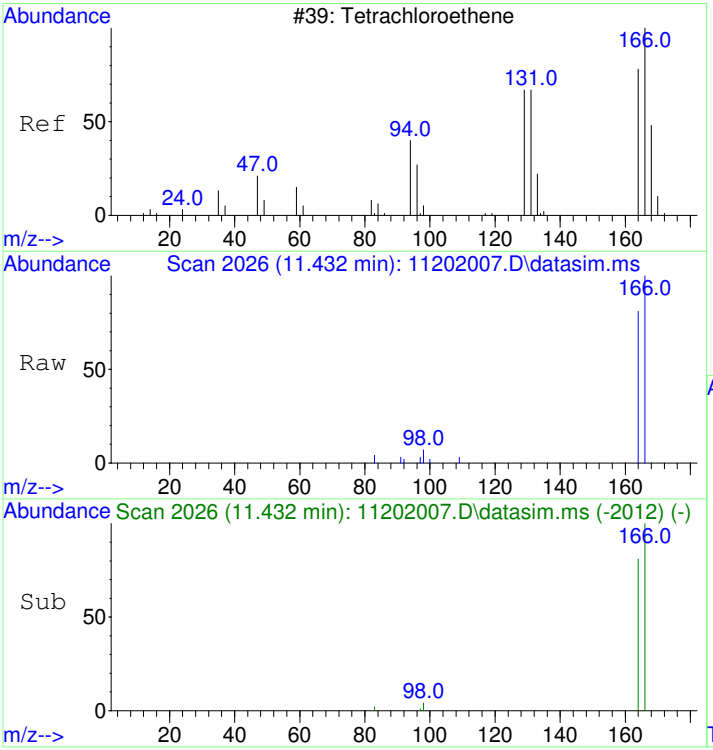


#13
Toluene
Concen: 31.03 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 91 Resp: 4514

Ion	Ratio	Lower	Upper
91	100		
92	58.3	29.9	89.9

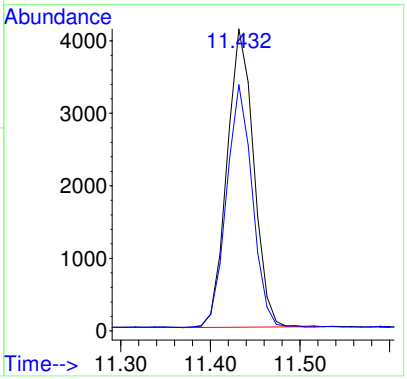


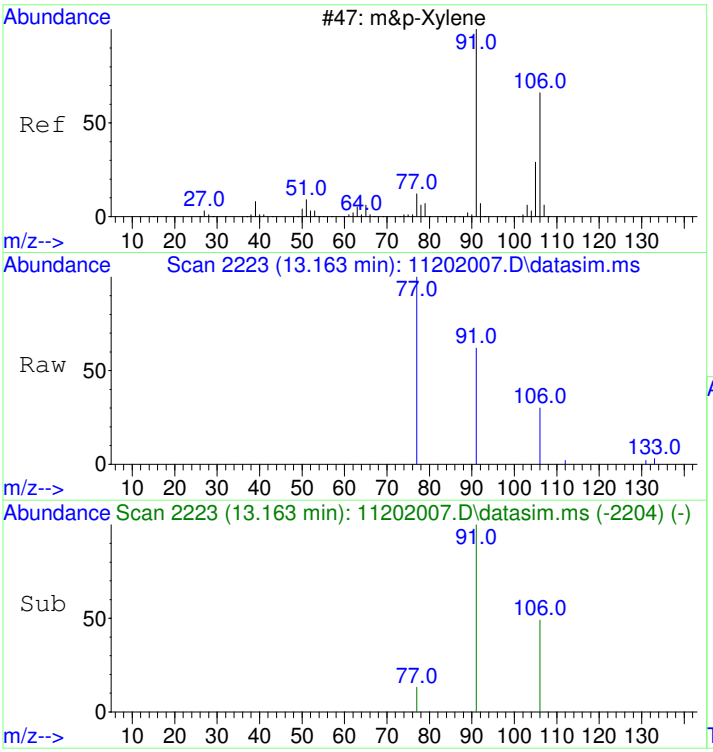


#15
Tetrachloroethene
Concen: 202.31 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion:166 Resp: 8518

Ion	Ratio	Lower	Upper
166	100		
164	78.5	47.8	107.8

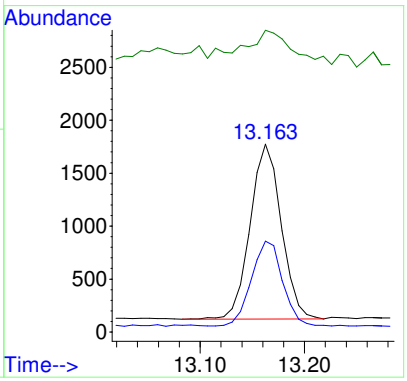


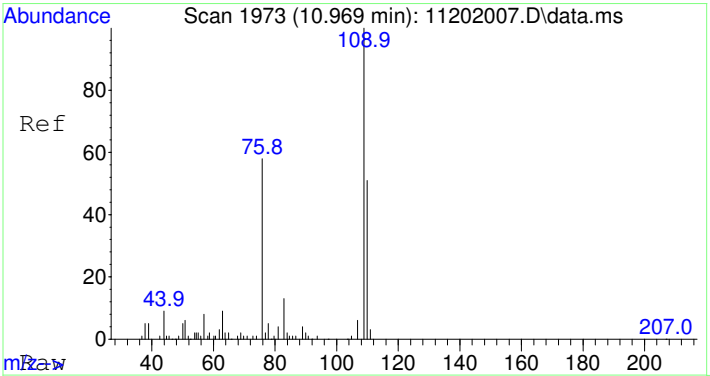


#19
m&p-Xylene
Concen: 24.57 ug/L
RT: 13.163 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 91 Resp: 3401

Ion	Ratio	Lower	Upper
91	100		
106	48.5	22.2	82.2
77	31.4	0.0	42.4

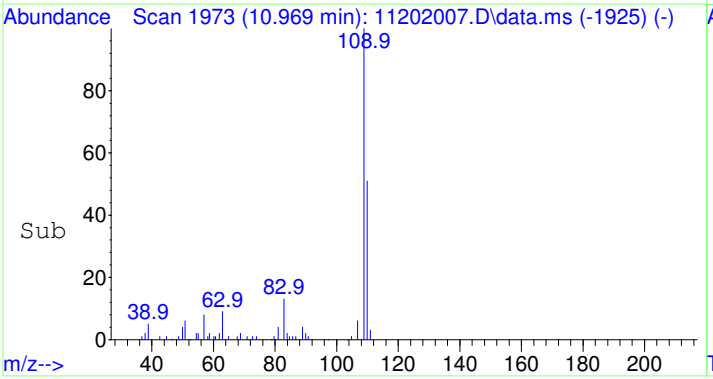


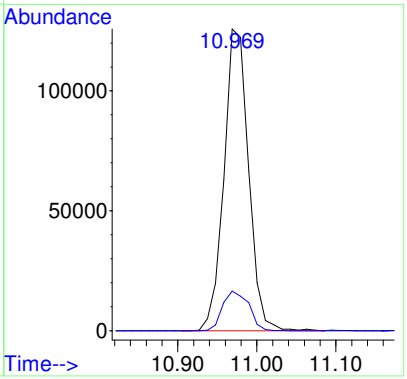


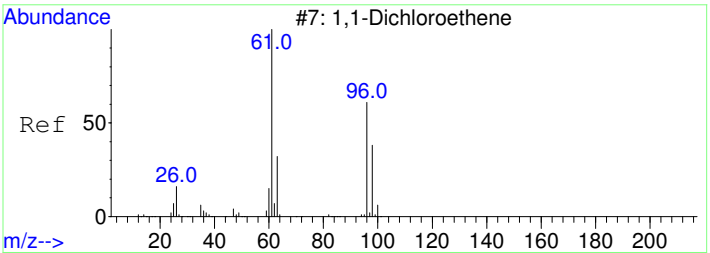
#25
2-Fluorotoluene SCAN
Concen: 4792.12 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion:109 Resp: 272318

Ion	Ratio	Lower	Upper
109	100		
83	14.1	0.0	43.8



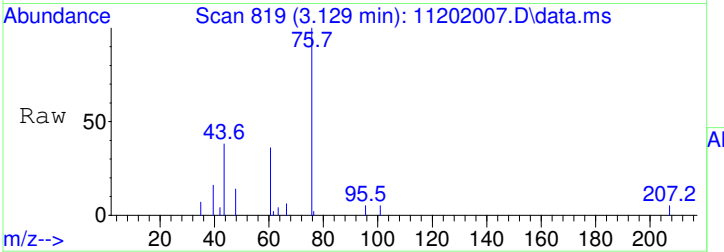


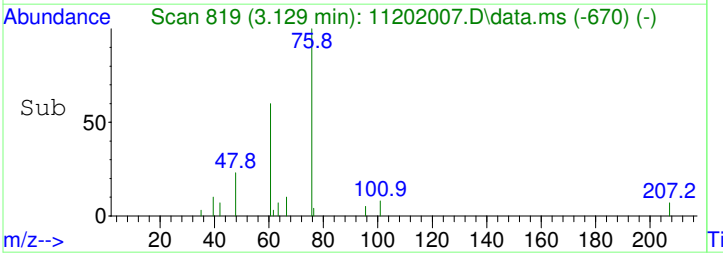


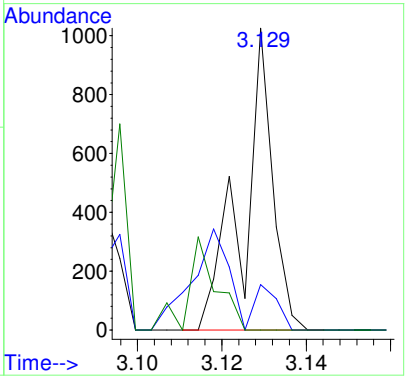
#26
1,1-Dichloroethene SCAN
Concen: 41.18 ug/L
RT: 3.129 min Scan# 819
Delta R.T. 0.052 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

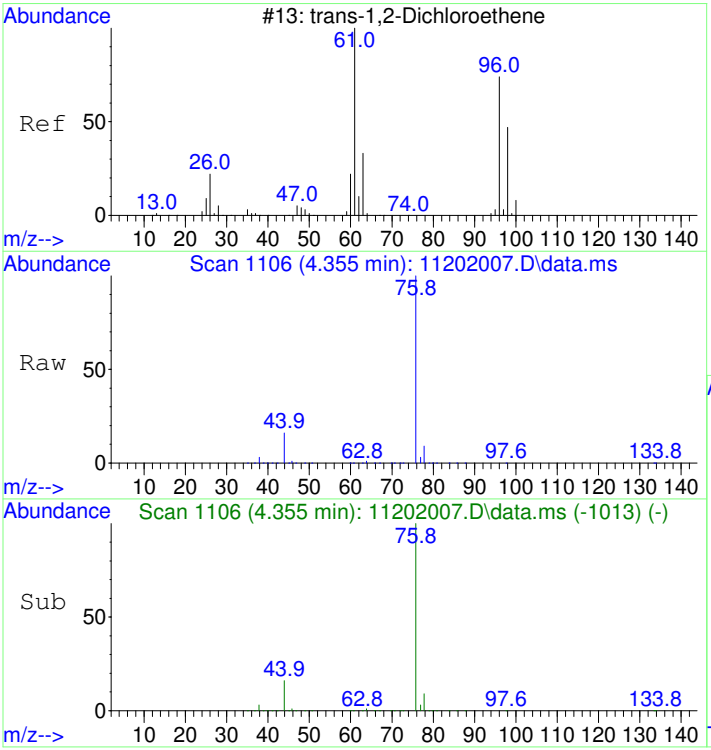
Tgt Ion: 61 Resp: 497

Ion	Ratio	Lower	Upper
61	100		
96	42.5	33.1	93.1
98	29.8	11.2	71.2





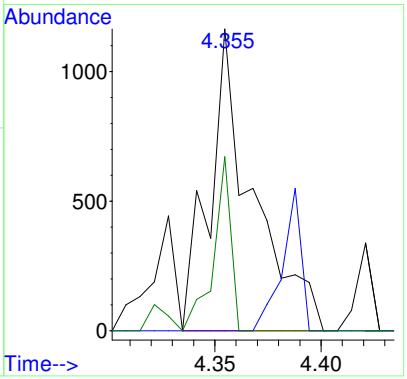


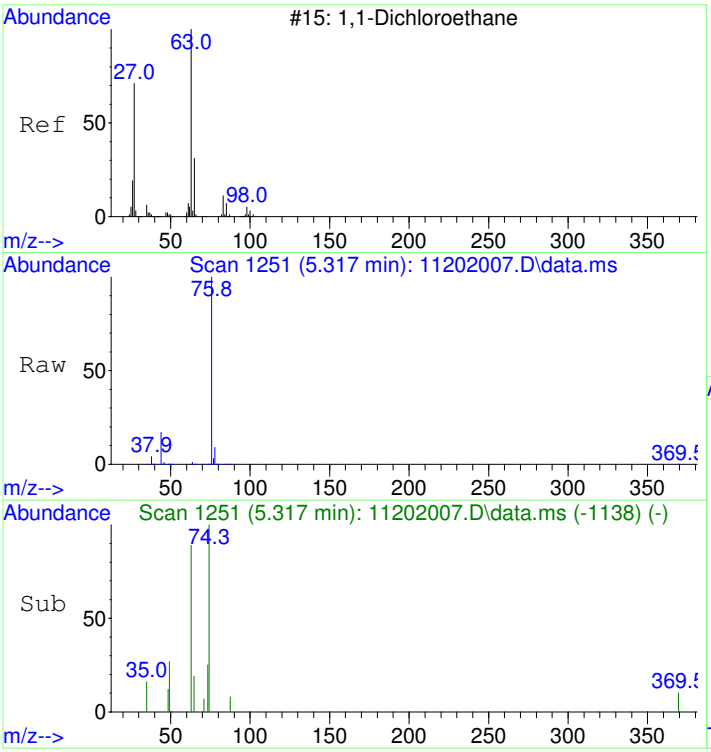


#27
trans-1,2-Dichloroethene SCAN
Concen: 111.02 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. 0.007 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 61 Resp: 1658

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	22.7	20.5	80.5

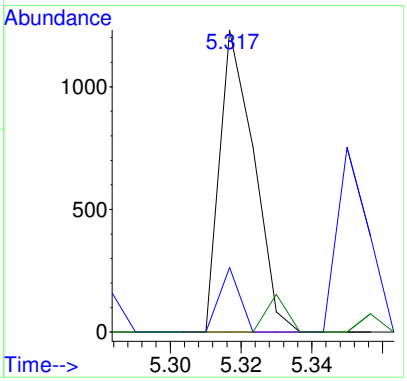


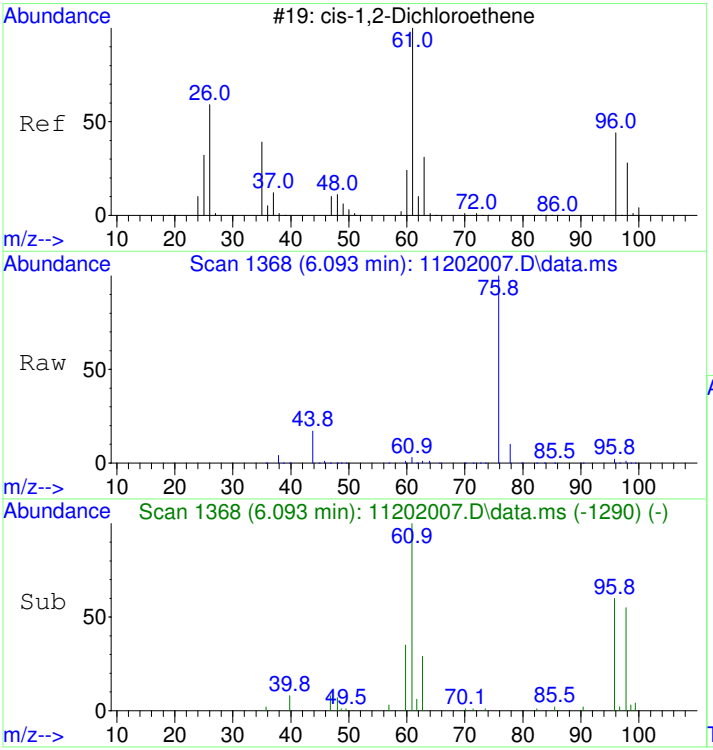


#28
1,1-Dichloroethane SCAN
Concen: 47.62 ug/L
RT: 5.317 min Scan# 1251
Delta R.T. 0.252 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 63 Resp: 823

Ion	Ratio	Lower	Upper
63	100		
65	12.8	1.3	61.3
83	7.4	0.0	45.9

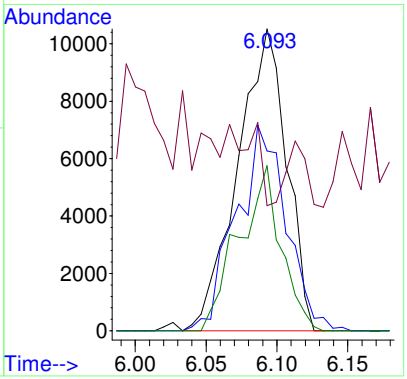


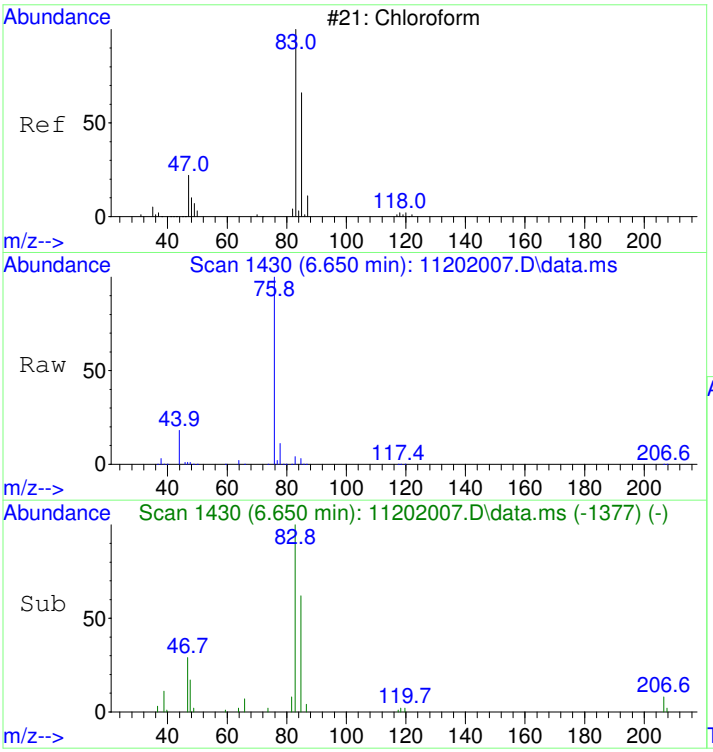


#29
cis-1,2-Dichloroethene SCAN
Concen: 1365.95 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 61 Resp: 25293

Ion	Ratio	Lower	Upper
61	100		
96	69.9	39.9	99.9
98	47.4	13.5	73.5
64	0.0	4.5	64.5#

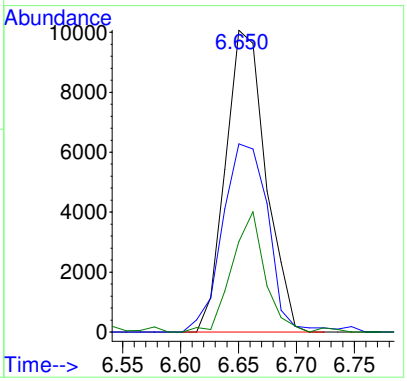


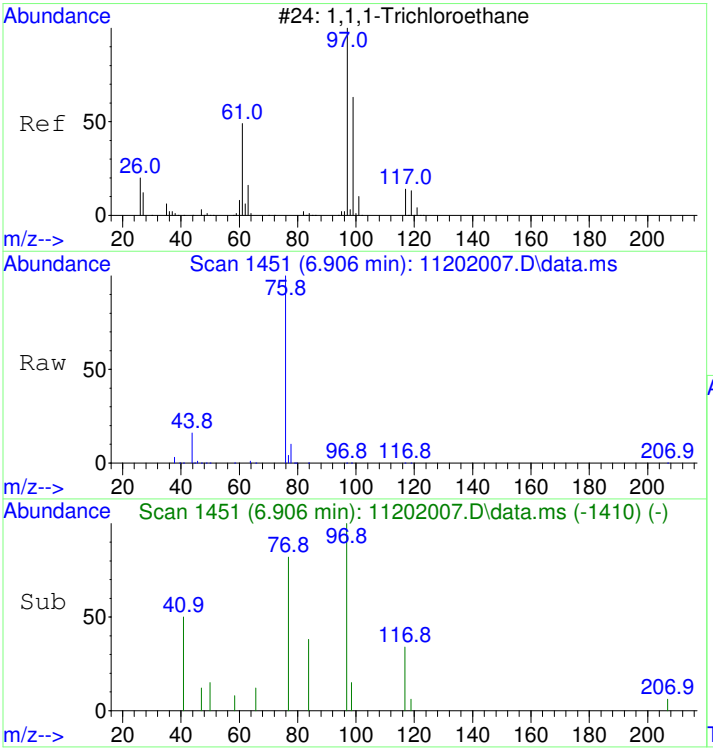


#30
Chloroform SCAN
Concen: 1217.53 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 83 Resp: 24453

Ion	Ratio	Lower	Upper
83	100		
85	71.1	34.6	94.6
47	33.1	0.0	53.4

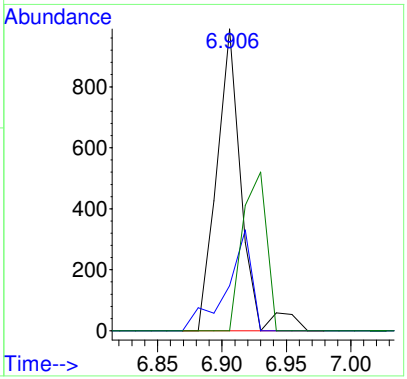


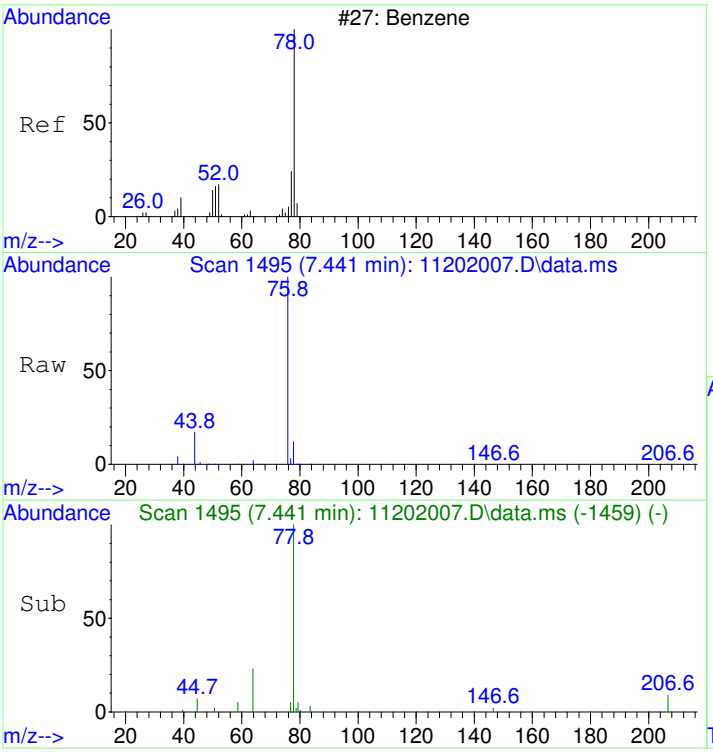


#31
1,1,1-Trichloroethane SCAN
Concen: 72.50 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 97 Resp: 1327

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	0.0	18.0	78.0#

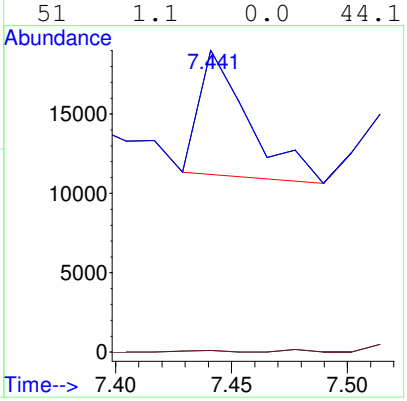


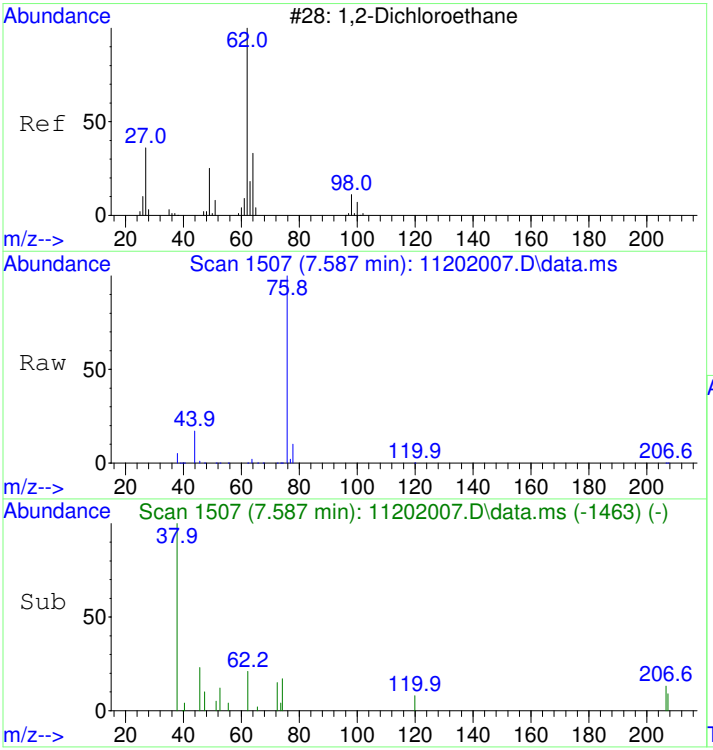


#33
Benzene SCAN
Concen: 225.19 ug/L
RT: 7.441 min Scan# 1495
Delta R.T. -0.061 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 78 Resp: 11348

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.1	0.0	47.9
51	1.1	0.0	44.1

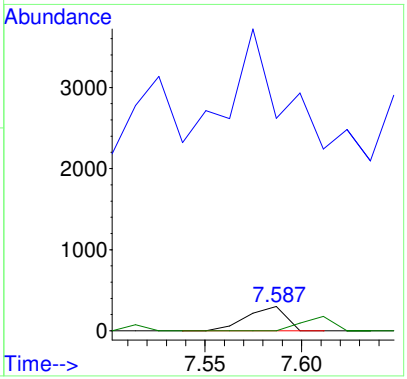


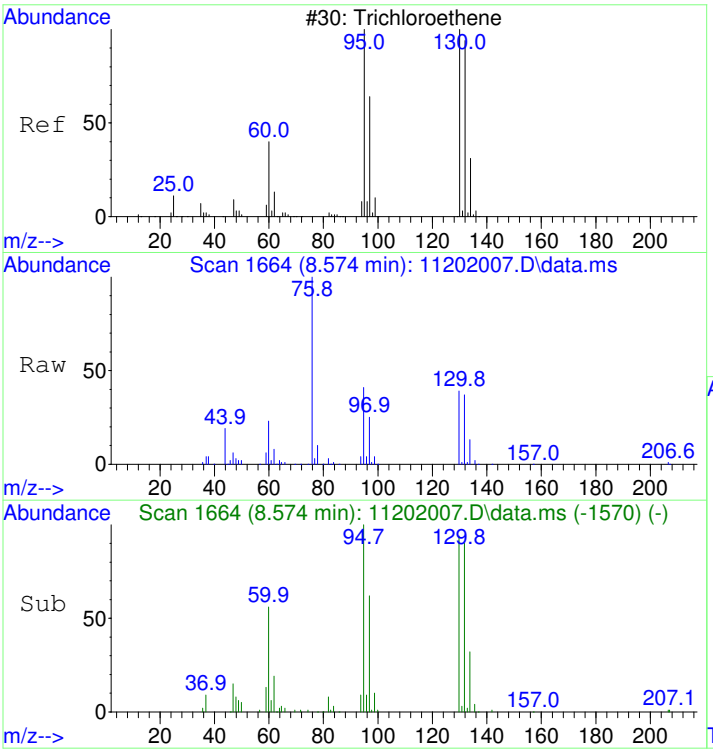


#34
1,2-Dichloroethane SCAN
Concen: 22.52 ug/L
RT: 7.587 min Scan# 1507
Delta R.T. 0.036 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 62 Resp: 419

Ion	Ratio	Lower	Upper
62	100		
64	547.5	5.2	65.2#
49	0.0	3.9	63.9#

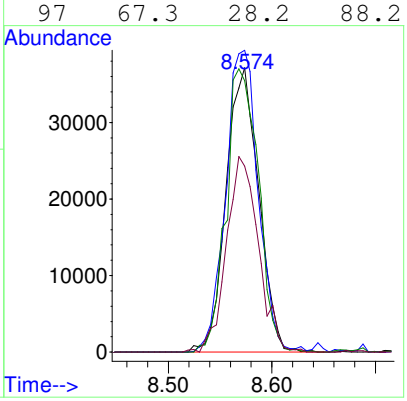


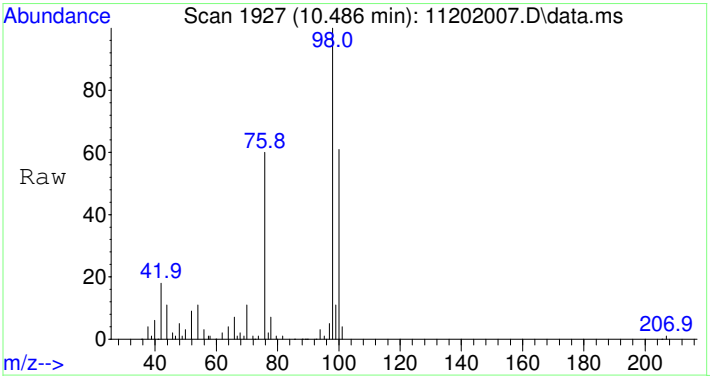


#35
Trichloroethene SCAN
Concen: 5891.34 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion:130 Resp: 81585

Ion	Ratio	Lower	Upper
130	100		
95	105.2	60.5	120.5
132	99.1	59.6	119.6
97	67.3	28.2	88.2

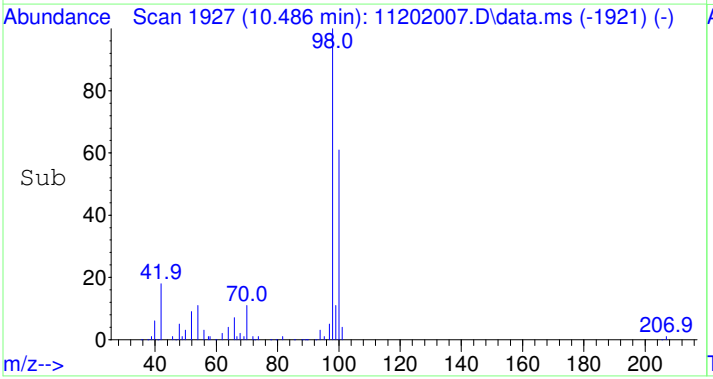


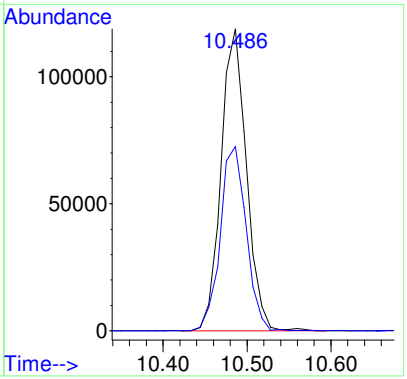


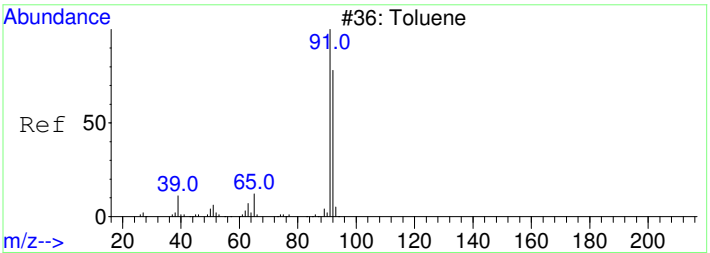
#36
Toluene-d8 SCAN
Concen: 4489.40 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 98 Resp: 249495

Ion	Ratio	Lower	Upper
98	100		
100	62.6	40.0	100.0



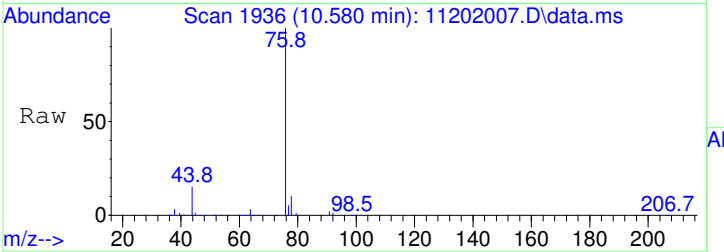


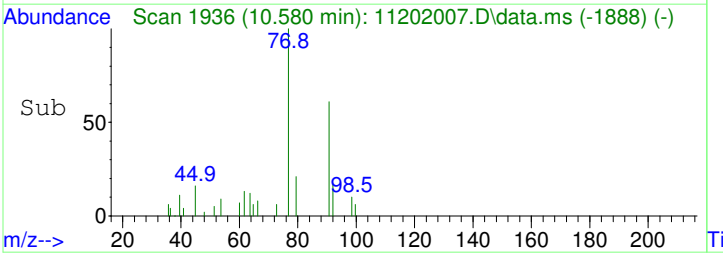


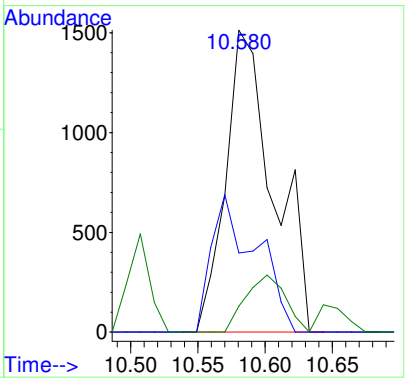
#37
Toluene SCAN
Concen: 52.65 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

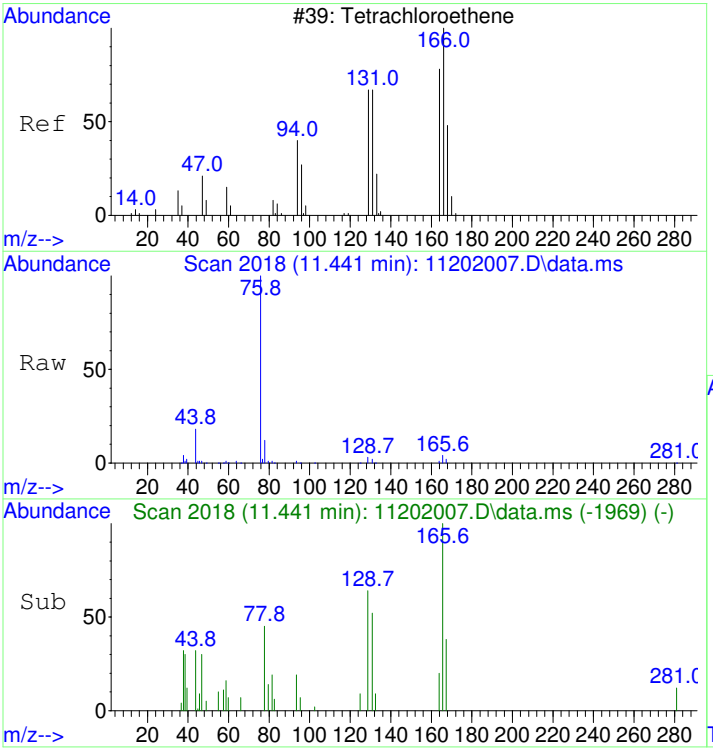
Tgt Ion: 91 Resp: 3747

Ion	Ratio	Lower	Upper
91	100		
92	42.5	28.3	88.3
65	0.0	0.0	41.0





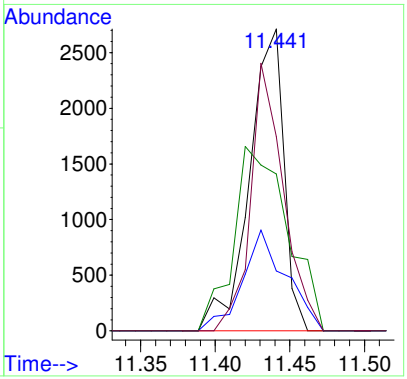


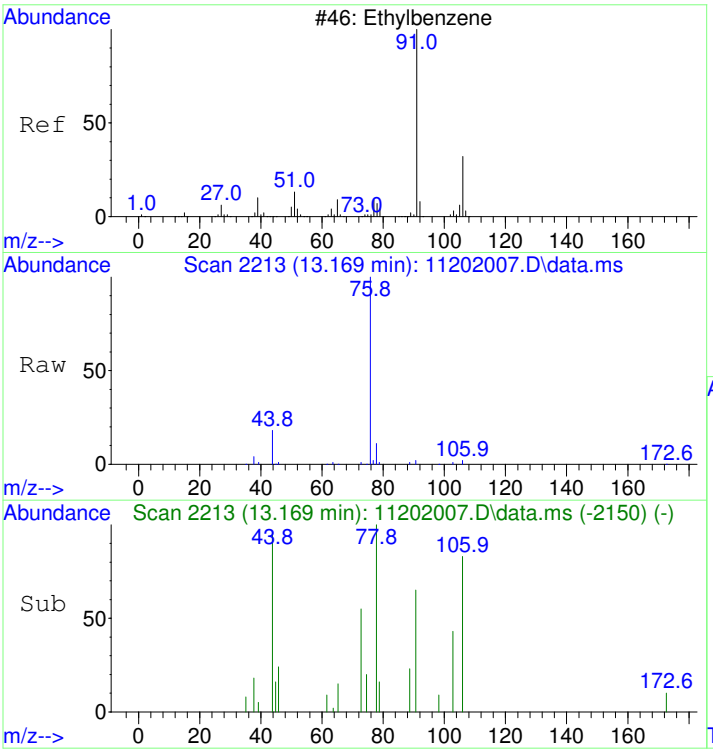


#39
Tetrachloroethene SCAN
Concen: 256.98 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion:166 Resp: 4394

Ion	Ratio	Lower	Upper
166	100		
164	41.8	50.9	110.9#
131	0.0	38.7	98.7#
129	84.4	41.8	101.8

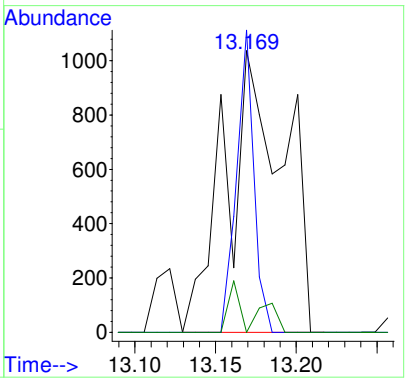


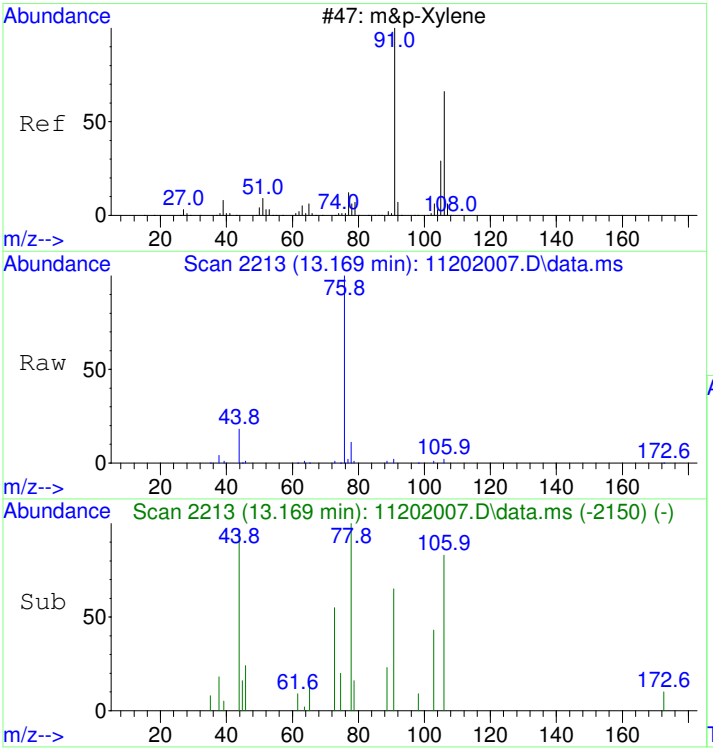


#42
Ethylbenzene SCAN
Concen: 20.09 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 91 Resp: 2605

Ion	Ratio	Lower	Upper
91	100		
106	31.9	23.1	83.1
51	7.0	0.0	40.1

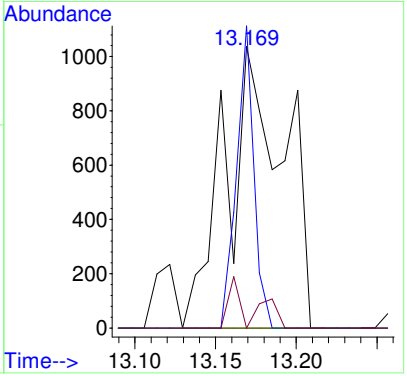




#43
m&p-Xylene SCAN
Concen: 20.09 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.000 min
Lab File: 11202007.D
Acq: 20 Nov 2020 12:02 pm

Tgt Ion: 91 Resp: 2605

Ion	Ratio	Lower	Upper
91	100		
106	31.9	23.1	83.1
105	0.0	0.0	54.7
51	7.0	0.0	40.1



2011017-21RE1

Quantitation Report (QT Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202008.D
Acq On : 20 Nov 2020 12:26 pm
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-21RE1
Misc : 10X DL (180-20)
ALS Vial : 8
Multiplier: 10

report TCE

Quant Time: Nov 23 14:41:05 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	541820	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	450715	4249.34	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 84.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	2192m	101.31	ug/L	
3] trans-1,2-Dichloroethene	4.349	61	3116	124.65	ug/L	88
4] 1,1-Dichloroethane	5.072	63	2554	82.08	ug/L	84
5] cis-1,2-Dichloroethene	6.081	61	50178	1527.68	ug/L	99
6] Chloroform	6.652	83	40429	1202.56	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	2034	55.71	ug/L	99
9] Benzene	7.503	78	3106	33.74	ug/L #	1
11] Trichloroethene	8.569	130	210292	7586.97	ug/L	95
13] Toluene	10.582	91	4388	32.45	ug/L	98
15] Tetrachloroethene	11.432	166	10401	265.78	ug/L	100
19] m&p-Xylene	13.162	91	2844	22.11	ug/L	96
25) 2-Fluorotoluene SCAN	10.969	109	259082	4905.23	ug/L	97
27) trans-1,2-Dichloroethe...	4.361	61	1081	77.88	ug/L #	71
28) 1,1-Dichloroethane SCAN	5.058	63	827	51.48	ug/L	59
29) cis-1,2-Dichloroethene...	6.086	61	28357	1647.65	ug/L	84
30) Chloroform SCAN	6.662	83	21627	1158.55	ug/L	88
33) Benzene SCAN	7.502	78	12132	259.02	ug/L	95
35) Trichloroethene SCAN	8.568	130	94074	7308.78	ug/L	83
36) Toluene-d8 SCAN	10.486	98	225559	4366.74	ug/L	96
37) Toluene SCAN	10.591	91	1404	21.22	ug/L #	47
39) Tetrachloroethene SCAN	11.441	166	3810	239.74	ug/L #	75

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

M.I. Performed By:
LLH at 2:41 pm, Nov 23, 2020

M.I. Approved By:
ZR at 4:19 pm, Nov 23, 2020

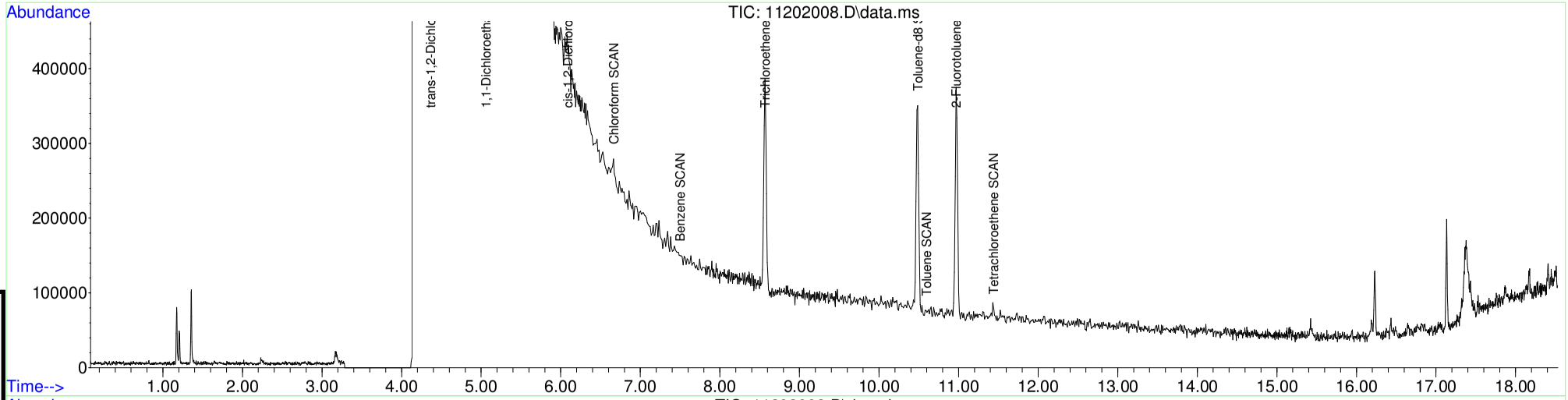
REVIEWED
By LLH at 2:41 pm, Nov 23, 2020

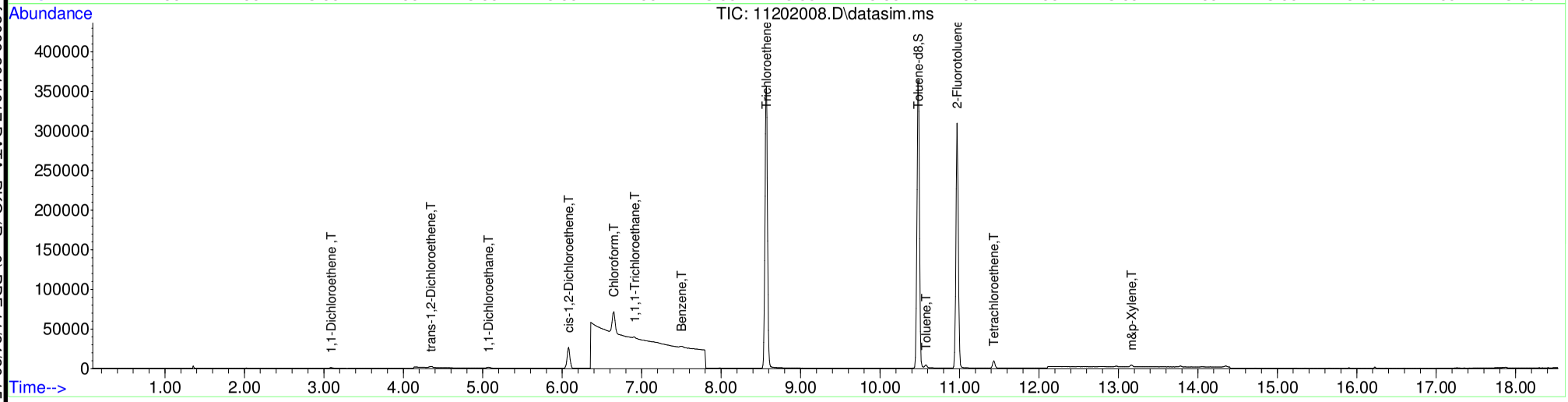
Quantitation Report (QT Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202008.D
Acq On : 20 Nov 2020 12:26 pm
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-21RE1
Misc : 10X DL (180-20)
ALS Vial : 8
Multiplier: 10

Quant Time: Nov 23 14:41:05 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M





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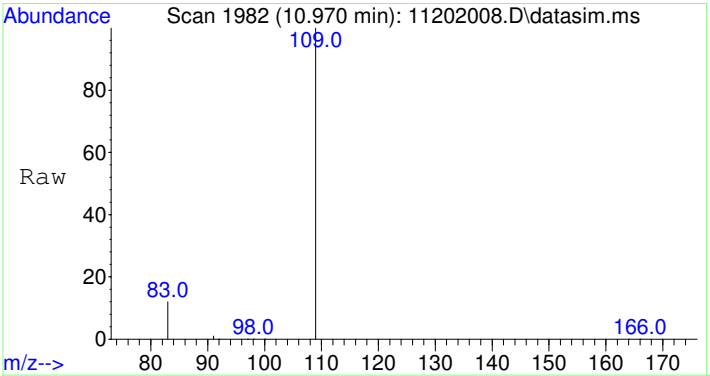
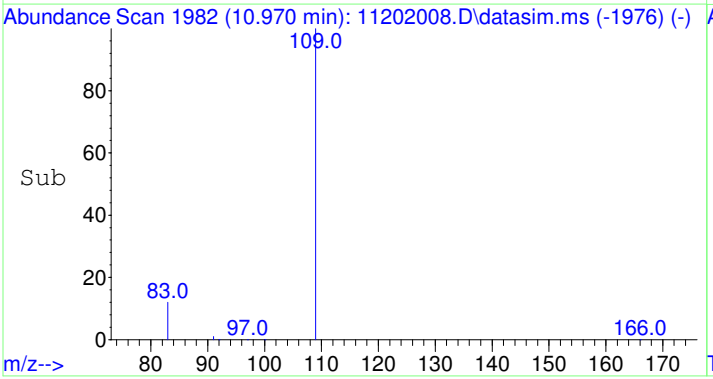
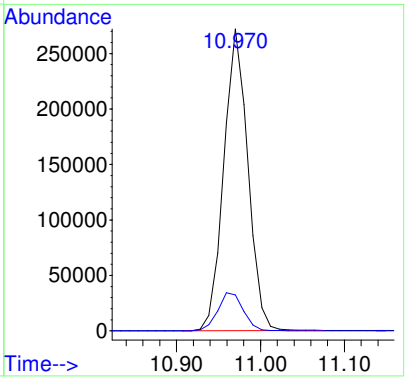


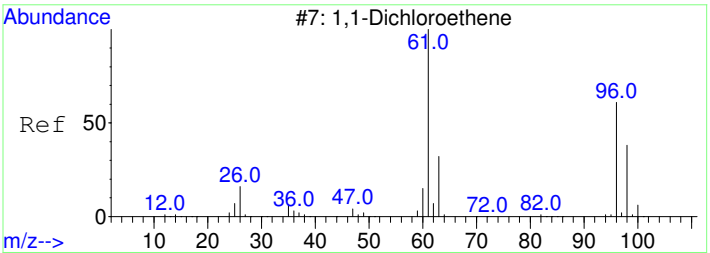
#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion:109 Resp: 541820

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3



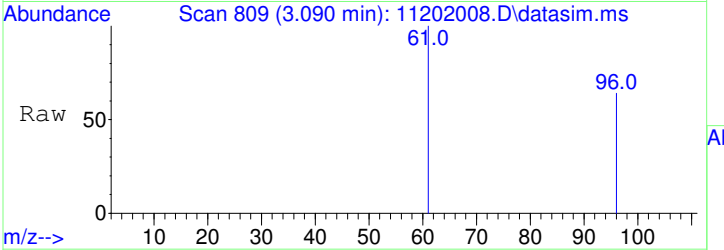


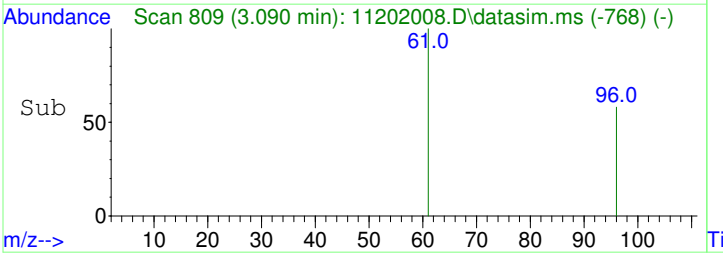


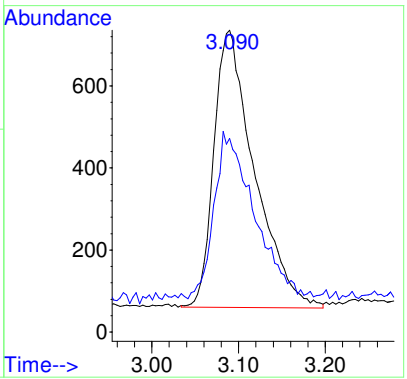
#2
1,1-Dichloroethene
Concen: 101.31 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

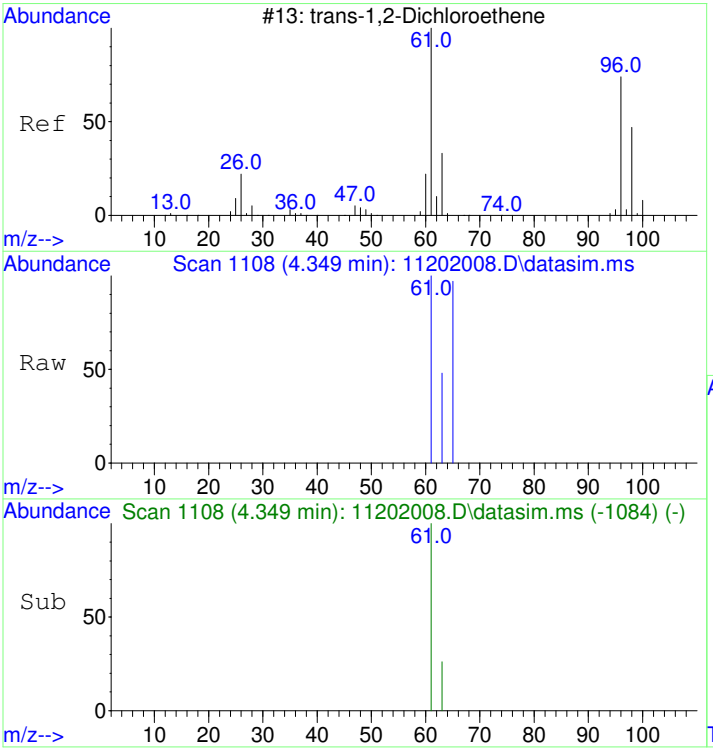
Tgt Ion: 61 Resp: 2192

Ion	Ratio	Lower	Upper
61	100		
96	77.3	37.2	97.2





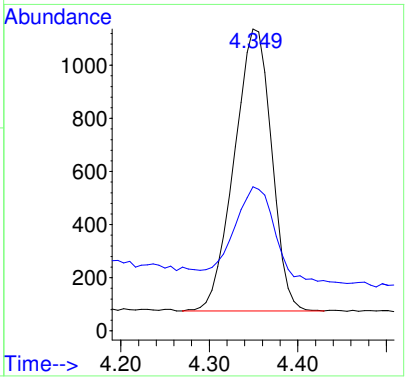


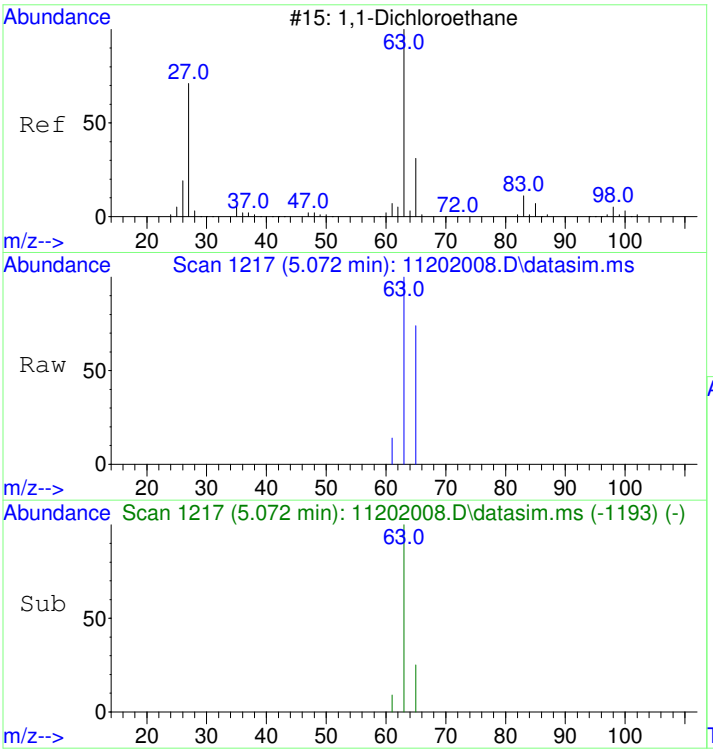


#3
trans-1,2-Dichloroethene
Concen: 124.65 ug/L
RT: 4.349 min Scan# 1108
Delta R.T. 0.007 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 61 Resp: 3116

Ion	Ratio	Lower	Upper
61	100		
63	39.0	2.4	62.4

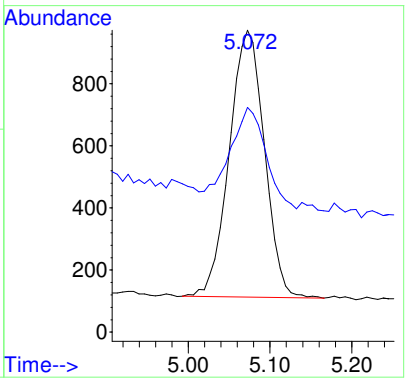


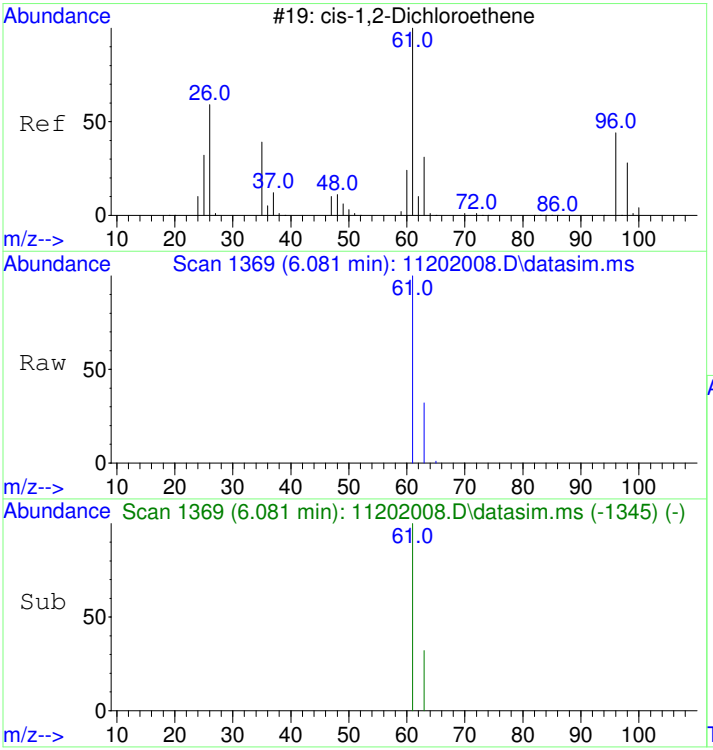


#4
1,1-Dichloroethane
Concen: 82.08 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 63 Resp: 2554

Ion	Ratio	Lower	Upper
63	100		
65	40.8	1.8	61.8

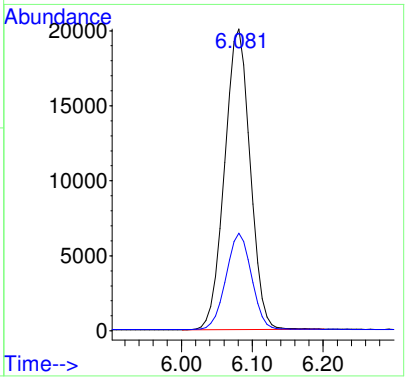


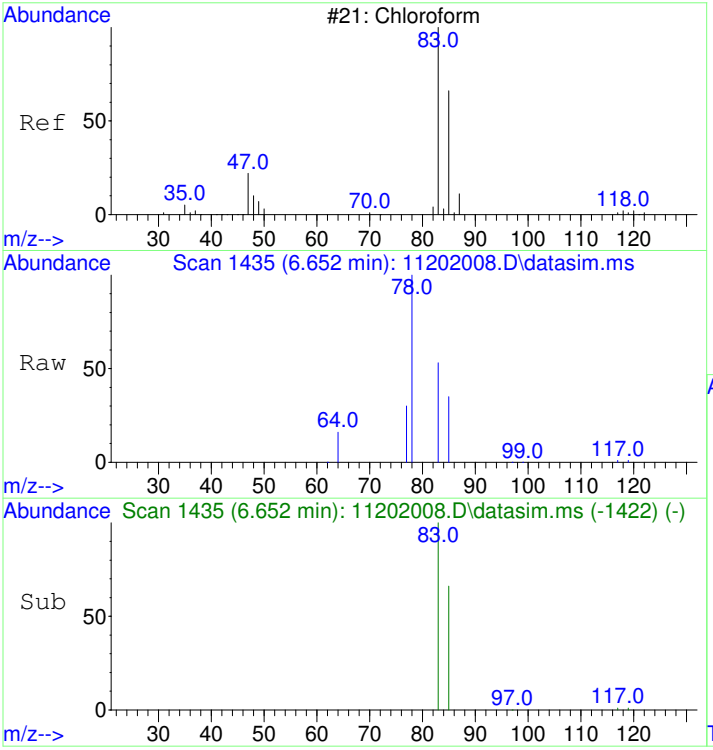


#5
cis-1,2-Dichloroethene
Concen: 1527.68 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 61 Resp: 50178

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

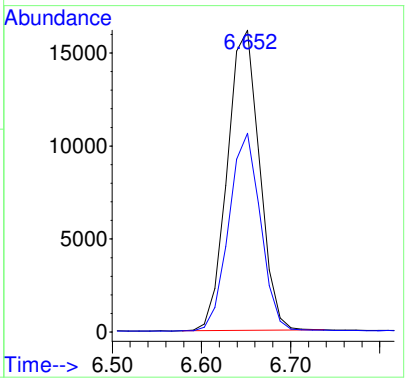


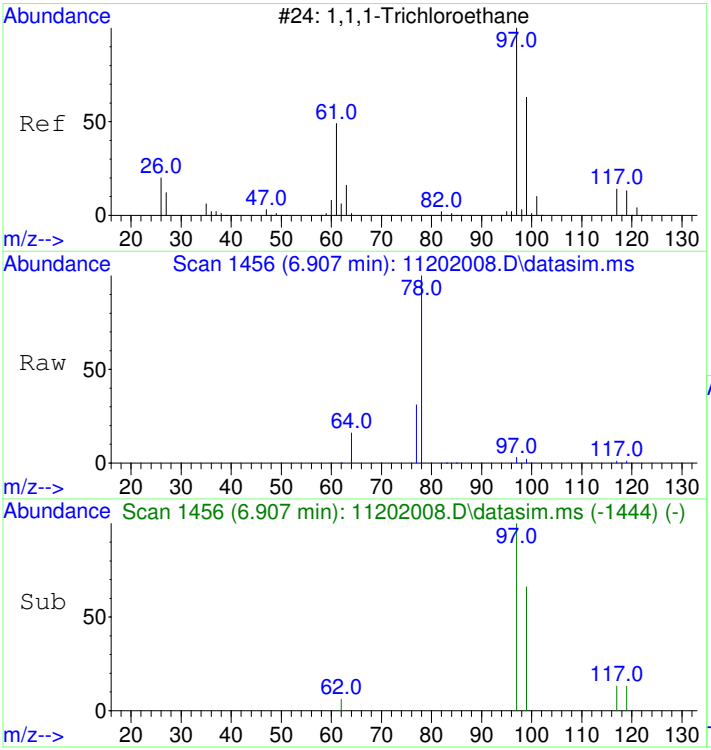


#6
Chloroform
Concen: 1202.56 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 83 Resp: 40429

Ion	Ratio	Lower	Upper
83	100		
85	64.4	35.1	95.1

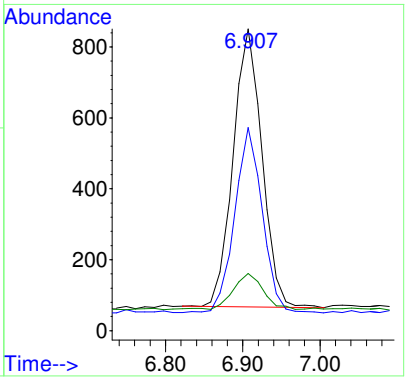


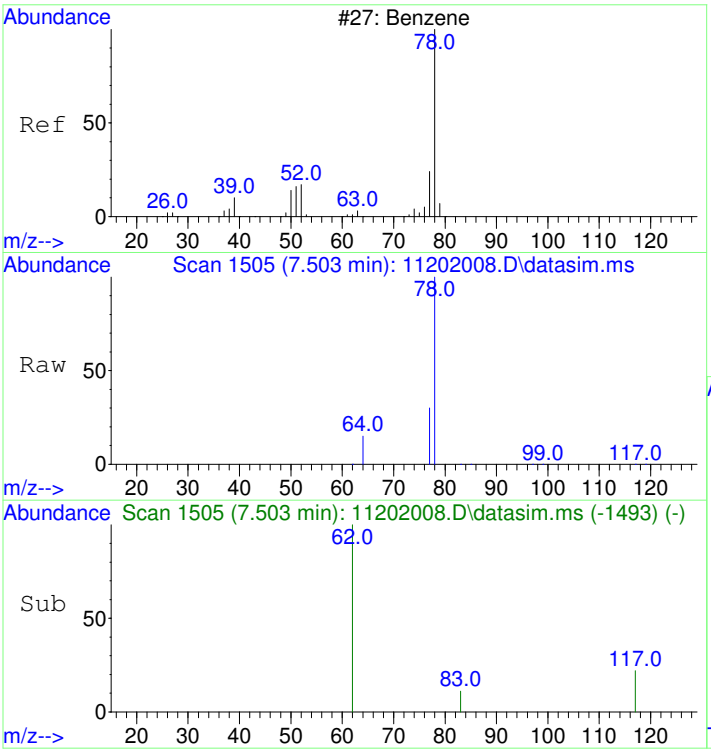


#7
1,1,1-Trichloroethane
Concen: 55.71 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 97 Resp: 2034

Ion	Ratio	Lower	Upper
97	100		
99	63.8	34.6	94.6
117	14.1	0.0	43.2

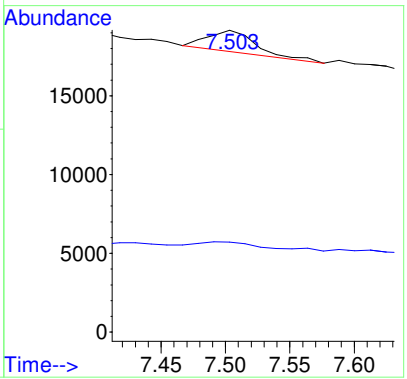


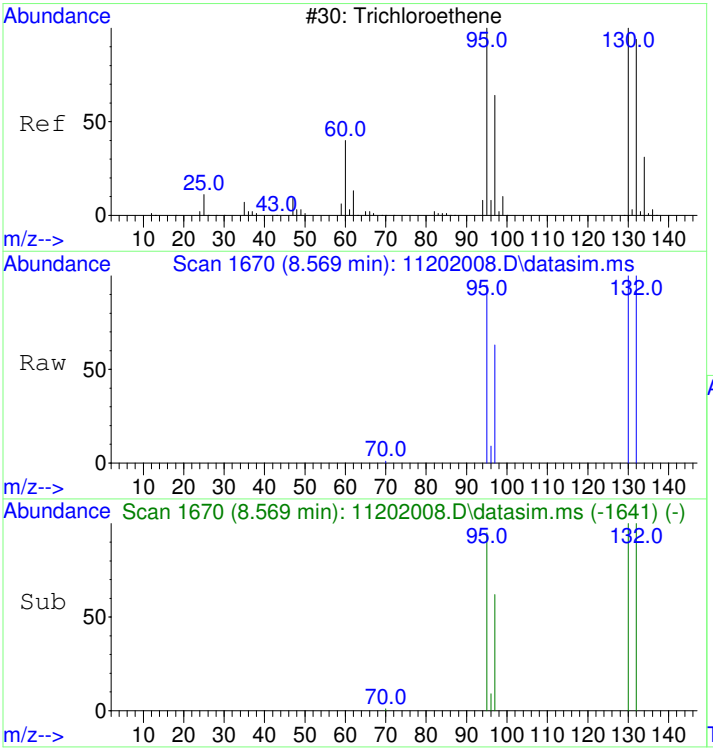


#9
Benzene
Concen: 33.74 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 78 Resp: 3106

Ion	Ratio	Lower	Upper
78	100		
77	71.7	0.0	53.2#

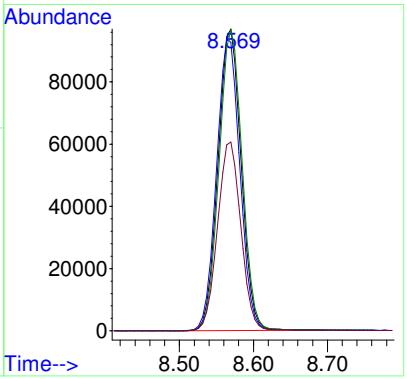


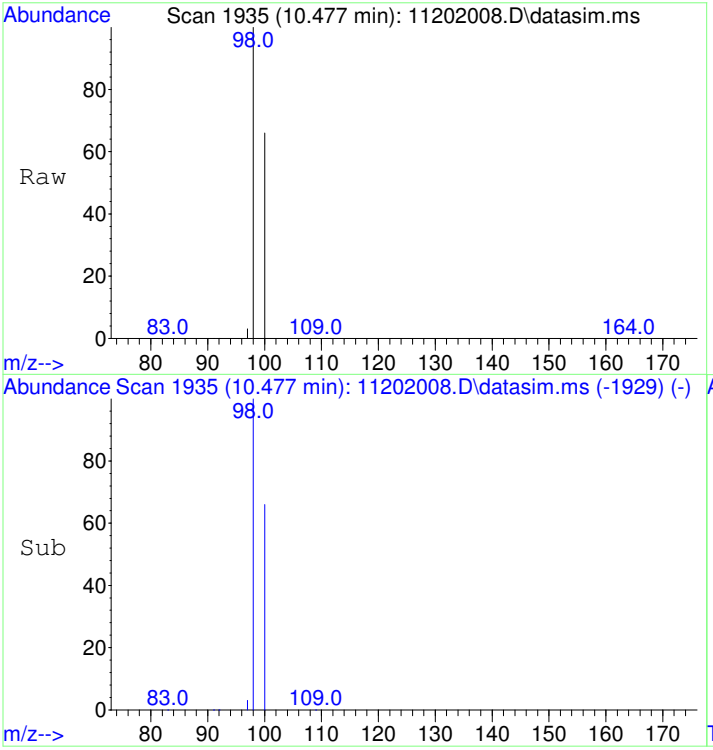


#11
Trichloroethene
Concen: 7586.97 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion:130 Resp: 210292

Ion	Ratio	Lower	Upper
130	100		
95	97.6	60.7	120.7
132	99.4	76.0	116.0
97	62.7	38.6	78.6

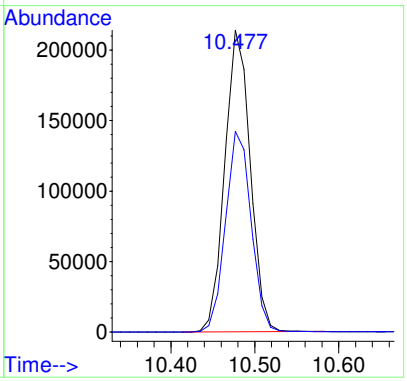


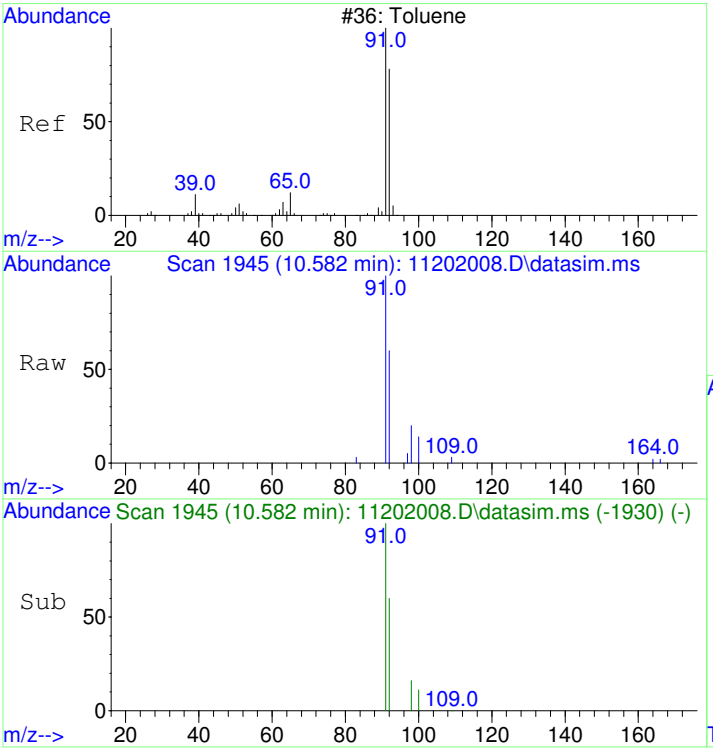


#12
Toluene-d8
Concen: 4249.34 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 98 Resp: 450715

Ion	Ratio	Lower	Upper
98	100		
100	66.7	37.1	97.1

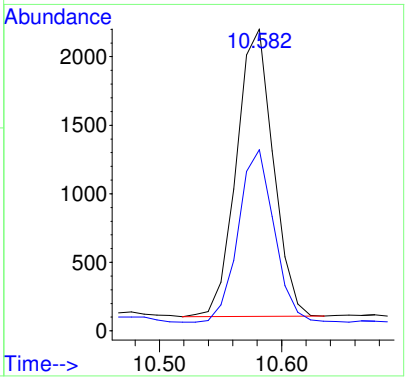


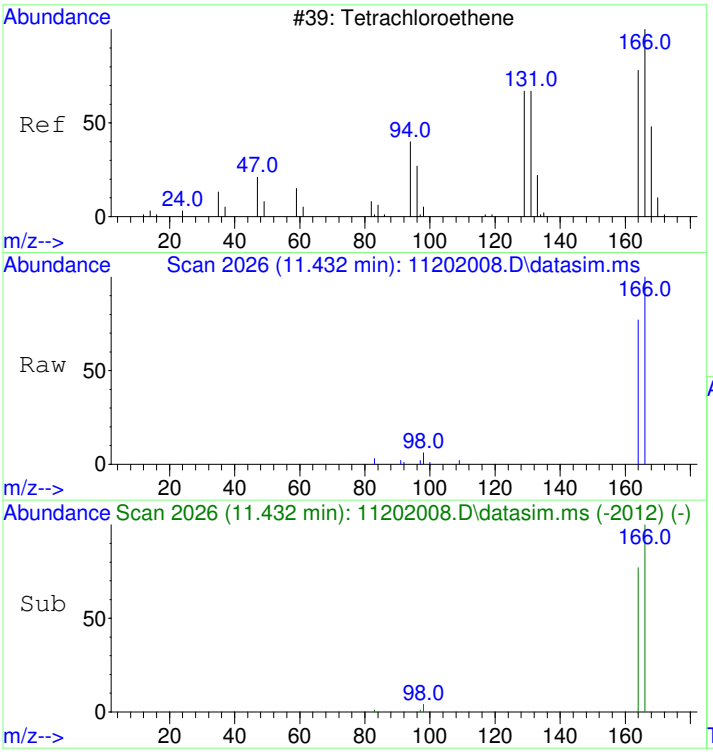


#13
Toluene
Concen: 32.45 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 91 Resp: 4388

Ion	Ratio	Lower	Upper
91	100		
92	58.6	29.9	89.9

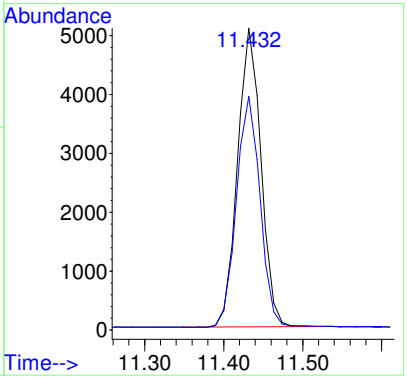


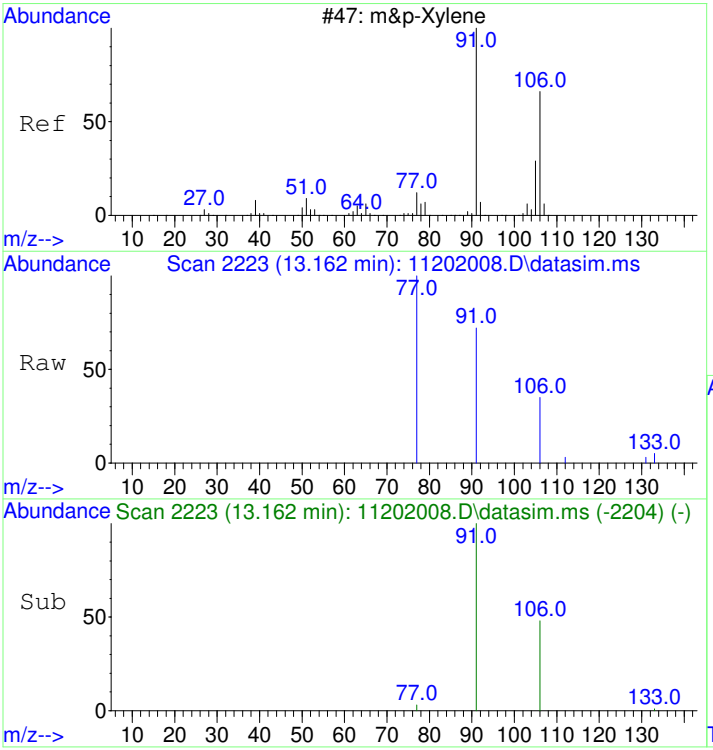


#15
Tetrachloroethene
Concen: 265.78 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion:166 Resp: 10401

Ion	Ratio	Lower	Upper
166	100		
164	77.8	47.8	107.8

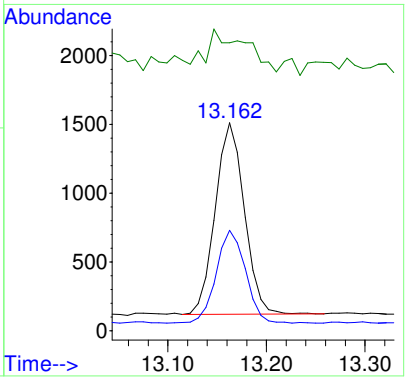


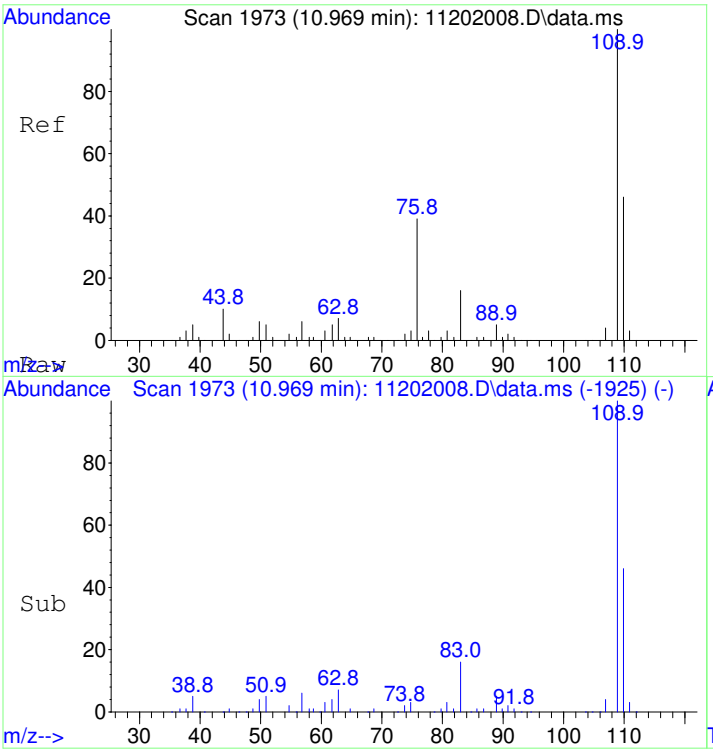


#19
m&p-Xylene
Concen: 22.11 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 91 Resp: 2844

Ion	Ratio	Lower	Upper
91	100		
106	49.1	22.2	82.2
77	13.2	0.0	42.4

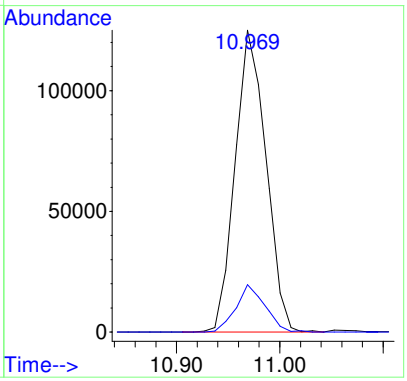


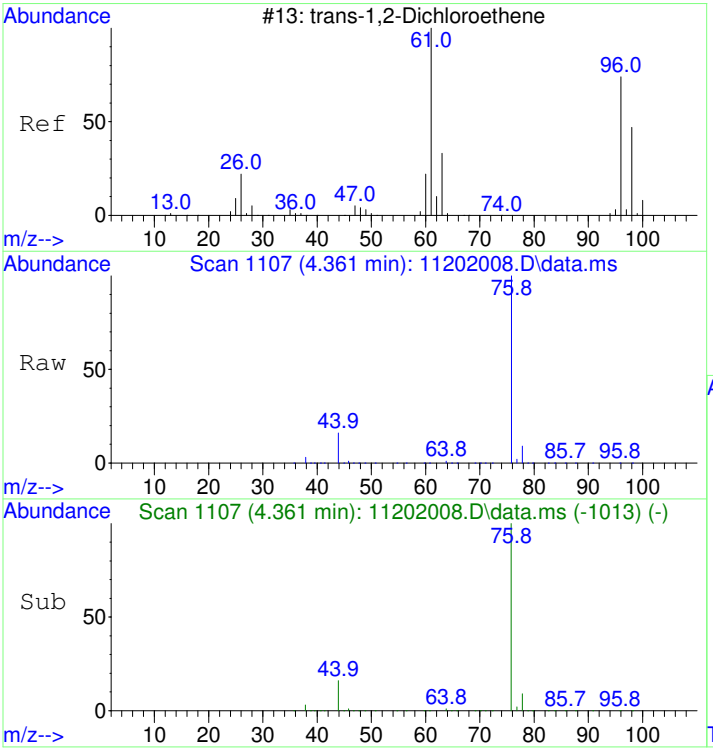


#25
2-Fluorotoluene SCAN
Concen: 4905.23 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion:109 Resp: 259082

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	43.8

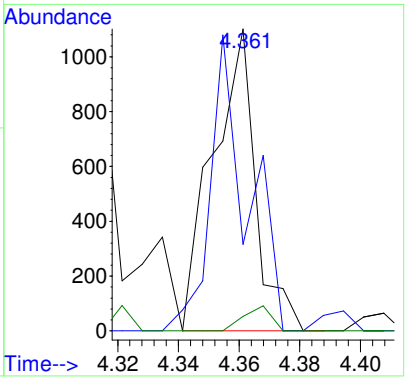


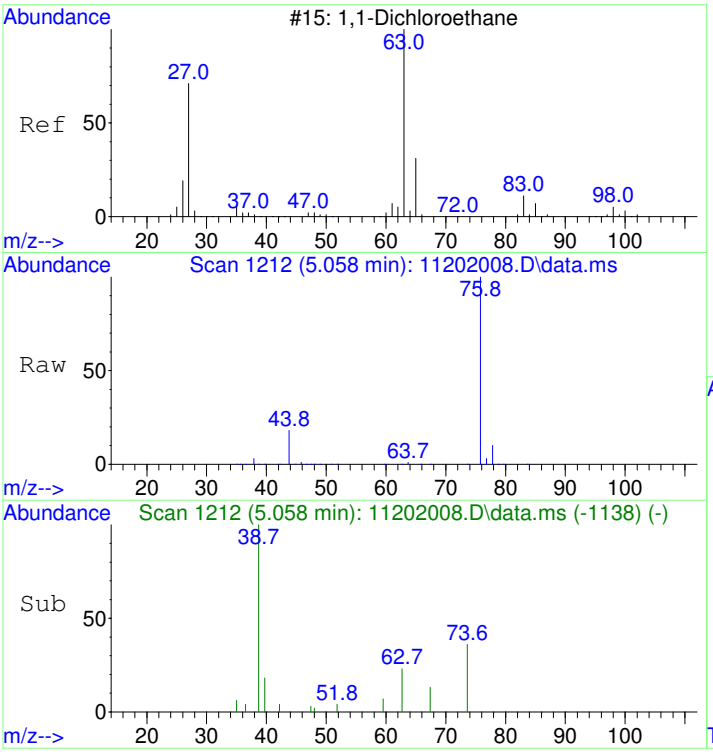


#27
trans-1,2-Dichloroethene SCAN
Concen: 77.88 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. 0.013 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 61 Resp: 1081

Ion	Ratio	Lower	Upper
61	100		
96	84.5	49.0	109.0
98	5.3	20.5	80.5#

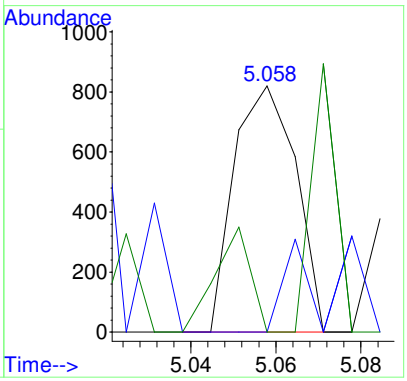


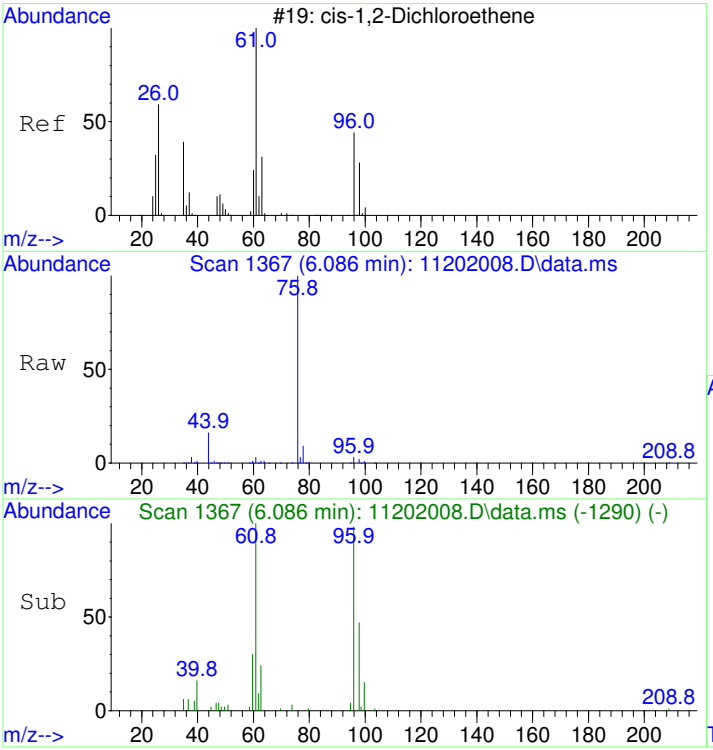


#28
1,1-Dichloroethane SCAN
Concen: 51.48 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.007 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 63 Resp: 827

Ion	Ratio	Lower	Upper
63	100		
65	14.9	1.3	61.3
83	43.0	0.0	45.9

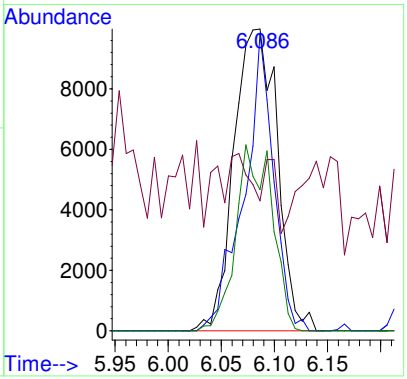


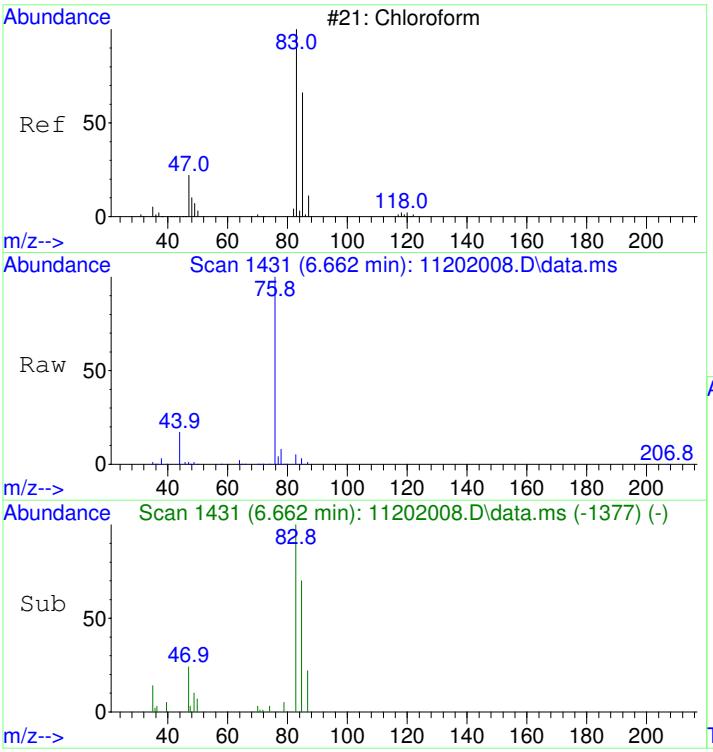


#29
cis-1,2-Dichloroethene SCAN
Concen: 1647.65 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 61 Resp: 28357

Ion	Ratio	Lower	Upper
61	100		
96	67.2	39.9	99.9
98	51.0	13.5	73.5
64	6.4	4.5	64.5

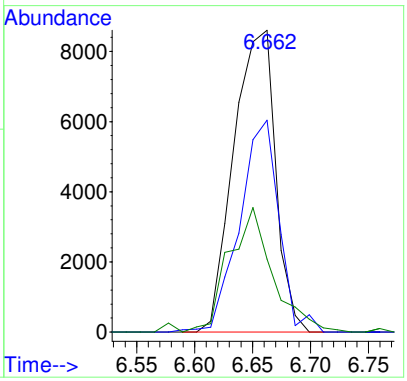


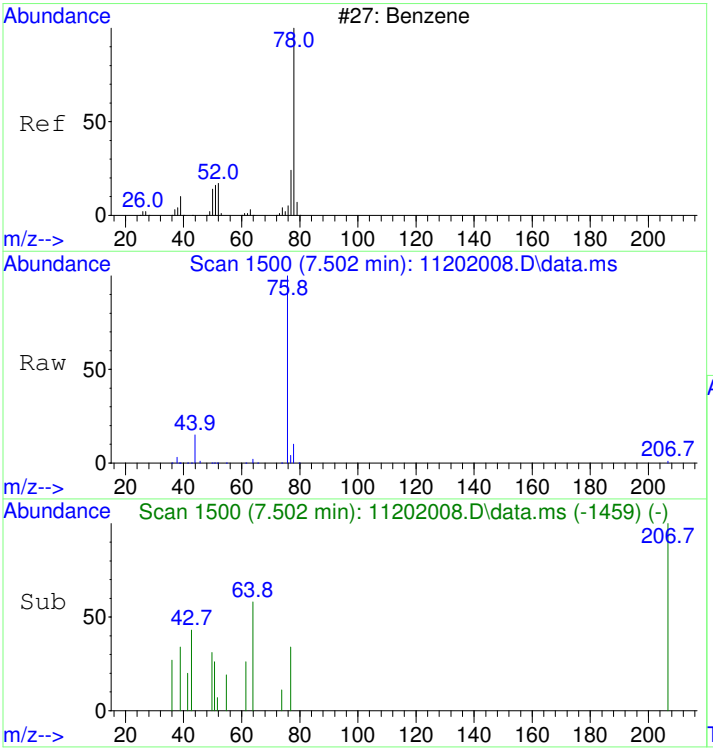


#30
Chloroform SCAN
Concen: 1158.55 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 83 Resp: 21627

Ion	Ratio	Lower	Upper
83	100		
85	66.4	34.6	94.6
47	43.3	0.0	53.4

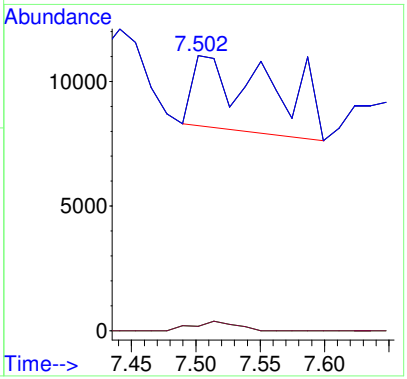


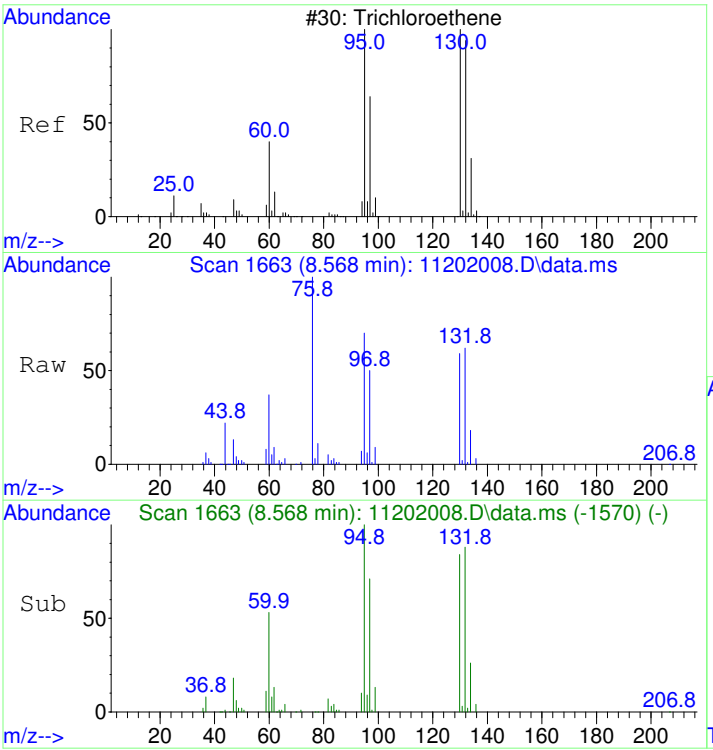


#33
Benzene SCAN
Concen: 259.02 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 78 Resp: 12132

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	7.2	0.0	47.9
51	7.2	0.0	44.1

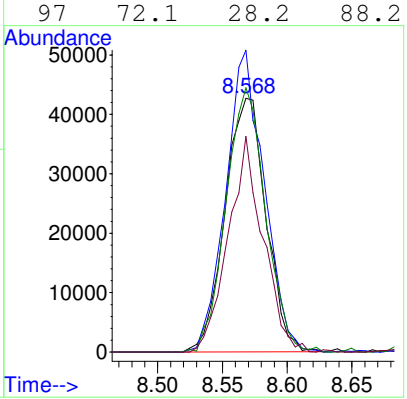


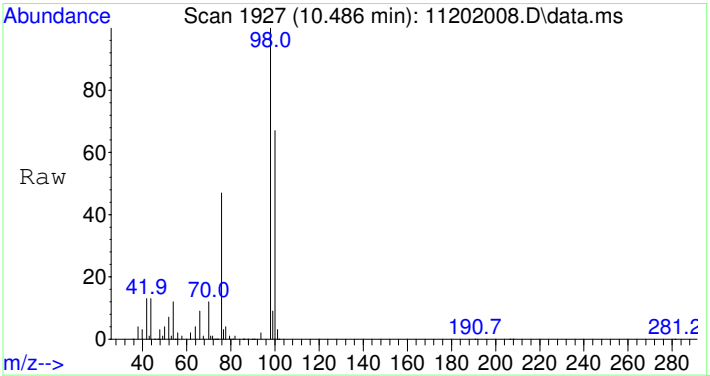


#35
Trichloroethene SCAN
Concen: 7308.78 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion:130 Resp: 94074

Ion	Ratio	Lower	Upper
130	100		
95	111.6	60.5	120.5
132	100.5	59.6	119.6
97	72.1	28.2	88.2

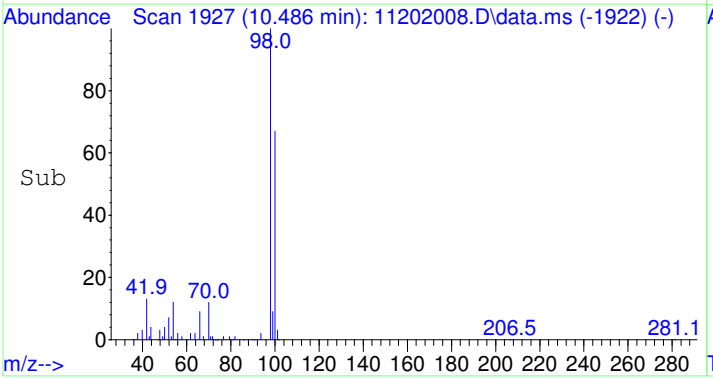


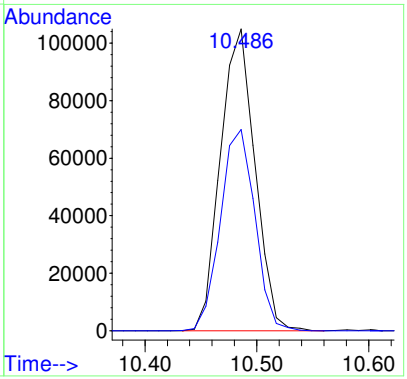


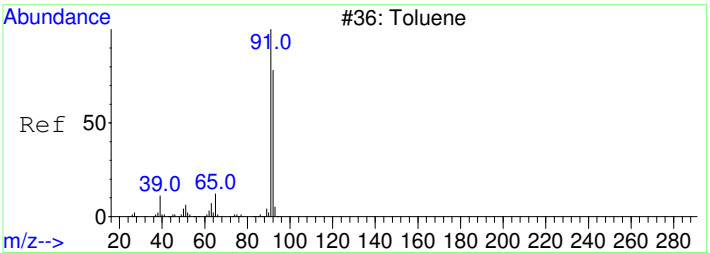
#36
Toluene-d8 SCAN
Concen: 4366.74 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 98 Resp: 225559

Ion	Ratio	Lower	Upper
98	100		
100	66.7	40.0	100.0



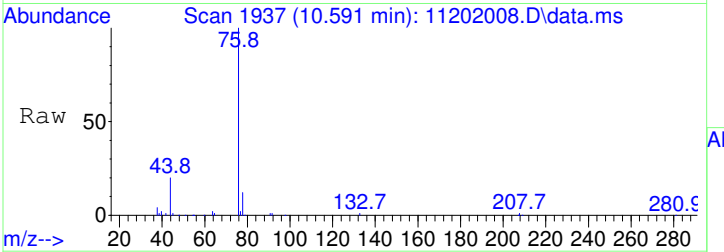


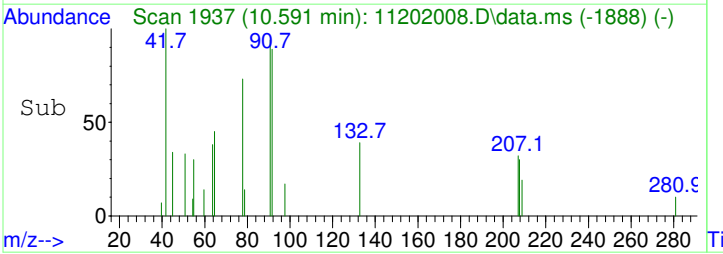


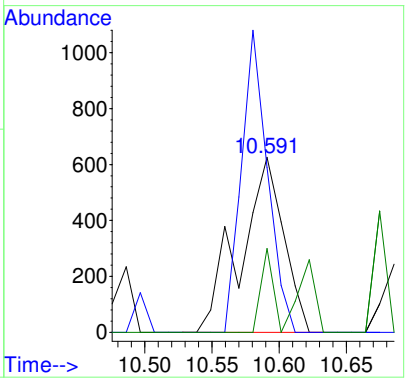
#37
Toluene SCAN
Concen: 21.22 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

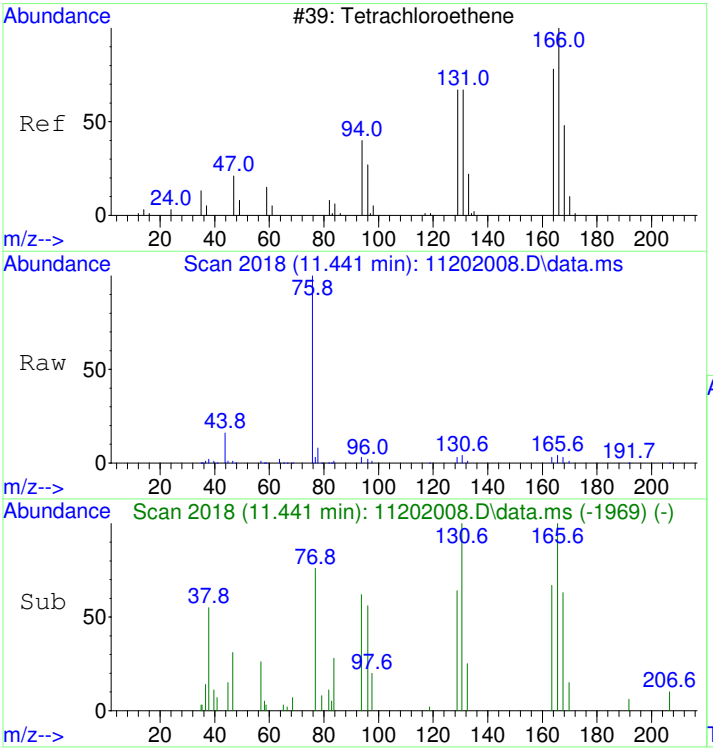
Tgt Ion: 91 Resp: 1404

Ion	Ratio	Lower	Upper
91	100		
92	104.1	28.3	88.3#
65	13.4	0.0	41.0





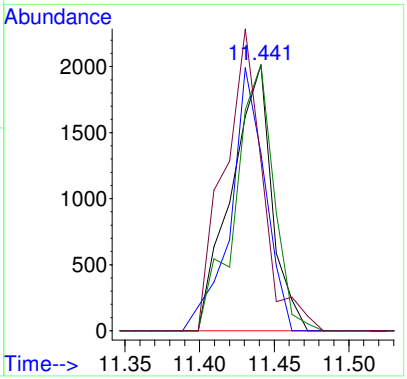




#39
Tetrachloroethene SCAN
Concen: 239.74 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion:166 Resp: 3810

Ion	Ratio	Lower	Upper
166	100		
164	83.7	50.9	110.9
131	95.6	38.7	98.7
129	107.5	41.8	101.8#



Quantitation Report (Not Reviewed)

Table of Contents

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202008.D
Acq On : 20 Nov 2020 12:26 pm
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-21RE1
Misc : 10X DL (180-20)
ALS Vial : 8
Multiplier: 10

Before Manual Integration

Quant Time: Nov 23 14:40:11 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	541820	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	450715	4249.34	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 84.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	2650	122.48	ug/L	96
3] trans-1,2-Dichloroethene	4.349	61	3116	124.65	ug/L	88
4] 1,1-Dichloroethane	5.072	63	2554	82.08	ug/L	84
5] cis-1,2-Dichloroethene	6.081	61	50178	1527.68	ug/L	99
6] Chloroform	6.652	83	40429	1202.56	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	2034	55.71	ug/L	99
9] Benzene	7.503	78	3106	33.74	ug/L #	1
11] Trichloroethene	8.569	130	210292	7586.97	ug/L	95
13] Toluene	10.582	91	4388	32.45	ug/L	98
15] Tetrachloroethene	11.432	166	10401	265.78	ug/L	100
19] m&p-Xylene	13.162	91	2844	22.11	ug/L	96
25) 2-Fluorotoluene SCAN	10.969	109	259082	4905.23	ug/L	97
27) trans-1,2-Dichloroethe...	4.361	61	1081	77.88	ug/L #	71
28) 1,1-Dichloroethane SCAN	5.058	63	827	51.48	ug/L	59
29) cis-1,2-Dichloroethene...	6.086	61	28357	1647.65	ug/L	84
30) Chloroform SCAN	6.662	83	21627	1158.55	ug/L	88
33) Benzene SCAN	7.502	78	12132	259.02	ug/L	95
35) Trichloroethene SCAN	8.568	130	94074	7308.78	ug/L	83
36) Toluene-d8 SCAN	10.486	98	225559	4366.74	ug/L	96
37) Toluene SCAN	10.591	91	1404	21.22	ug/L #	47
39) Tetrachloroethene SCAN	11.441	166	3810	239.74	ug/L #	75

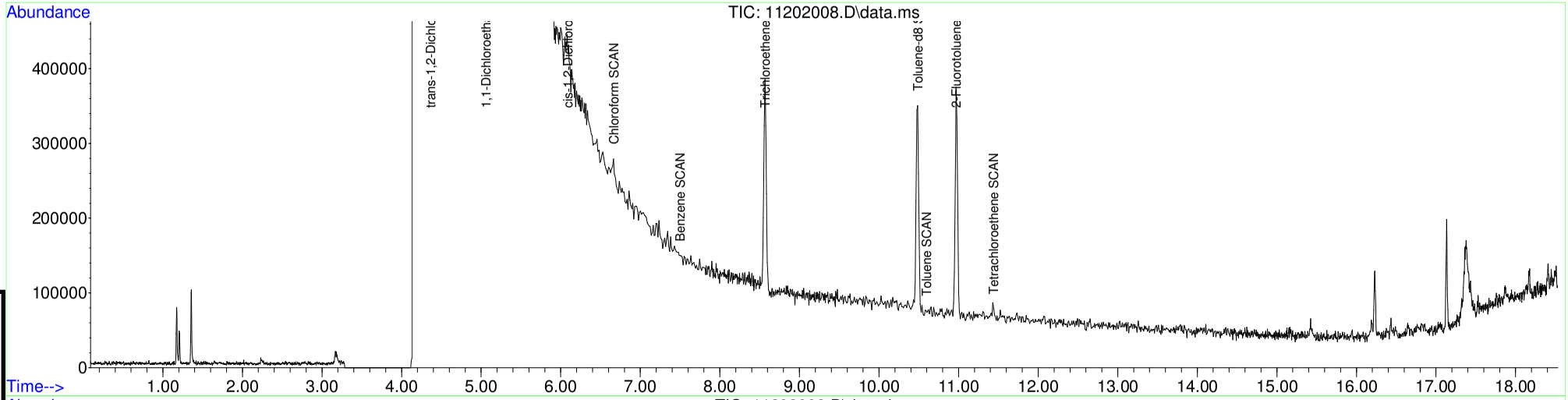
(#) = qualifier out of range (m) = manual integration (+) = signals summed

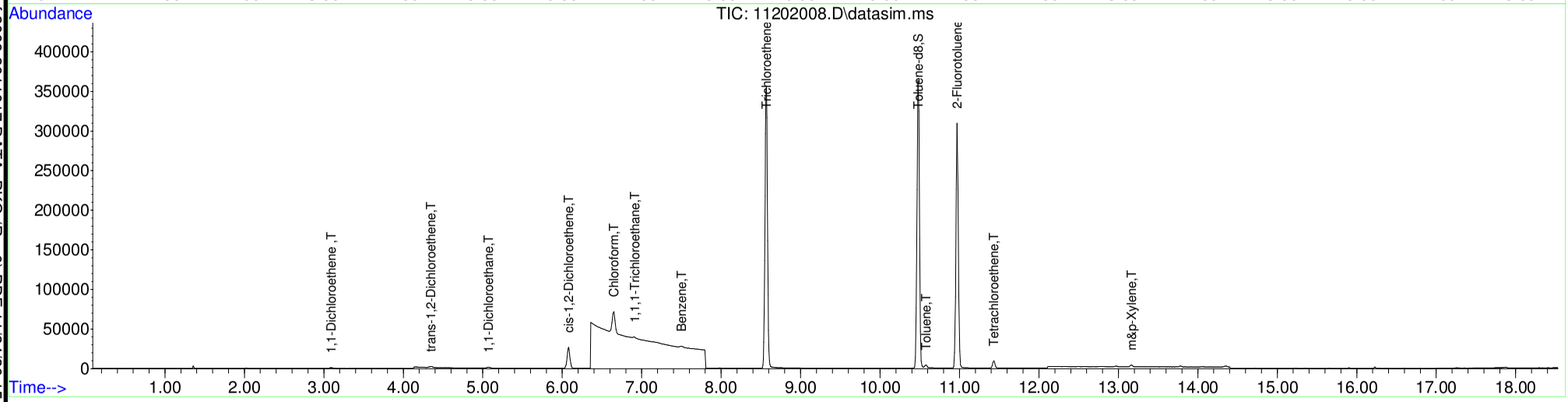
Quantitation Report (Not Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202008.D
Acq On : 20 Nov 2020 12:26 pm
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-21RE1
Misc : 10X DL (180-20)
ALS Vial : 8
Multiplier: 10

Quant Time: Nov 23 14:40:11 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M





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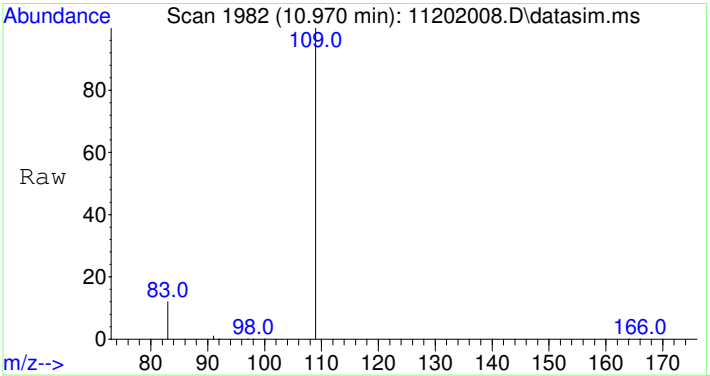
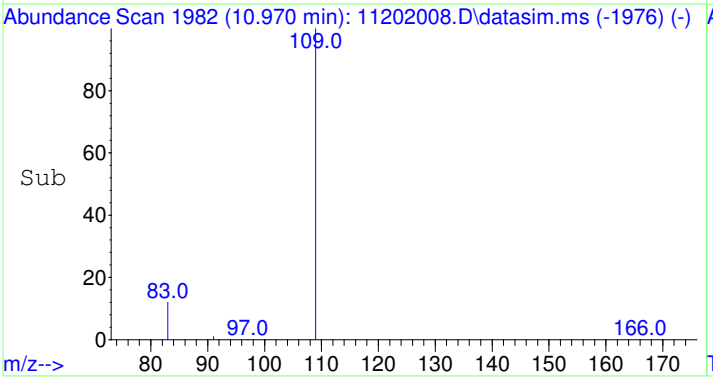
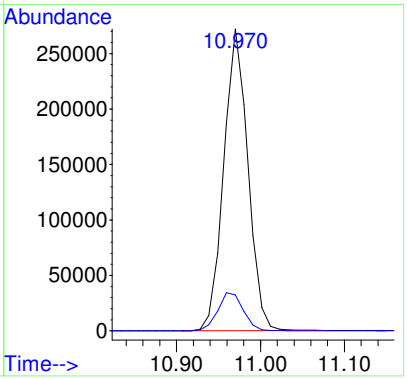


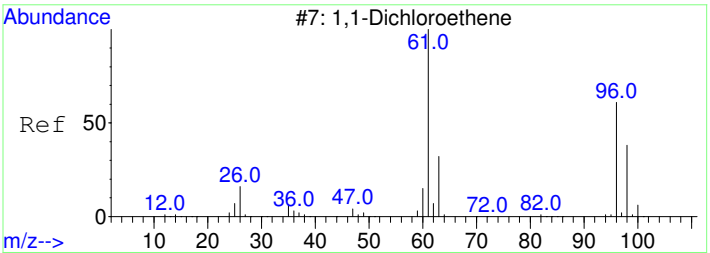
#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion:109 Resp: 541820

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3



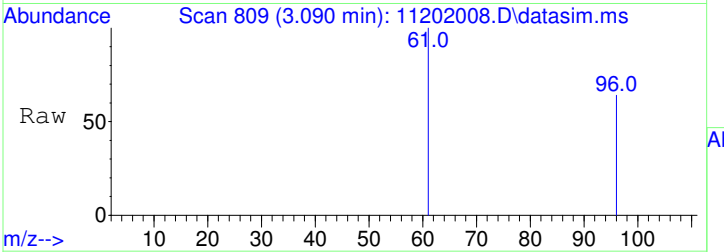


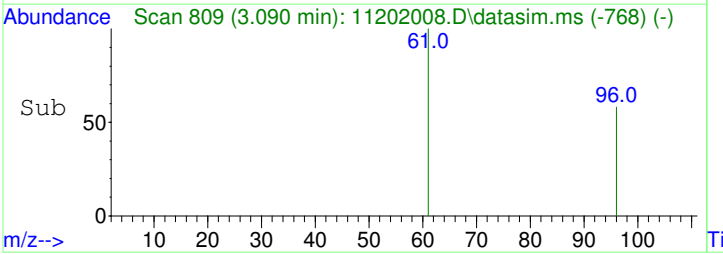


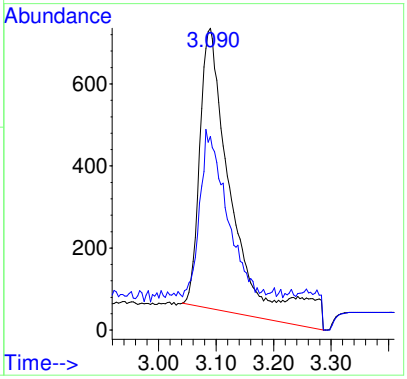
#2
1,1-Dichloroethene
Concen: 122.48 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 61 Resp: 2650

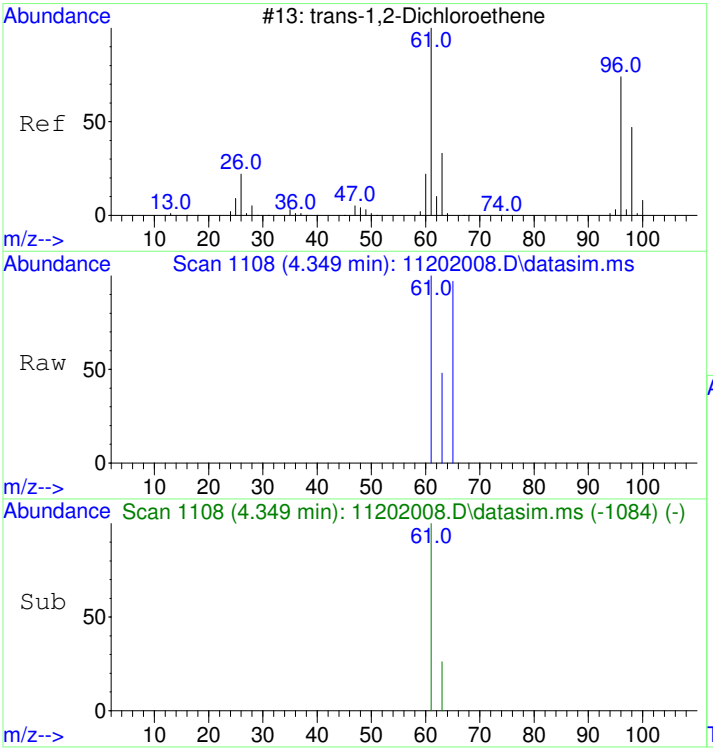
Ion	Ratio	Lower	Upper
61	100		
96	63.9	37.2	97.2







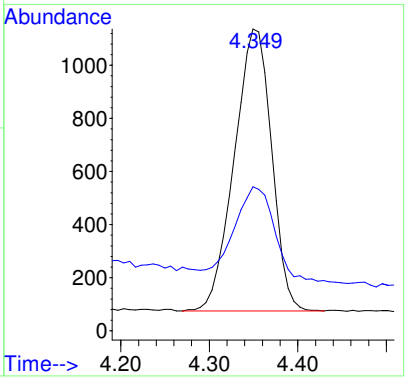
Before MI:
IMPROPER
BASELINE

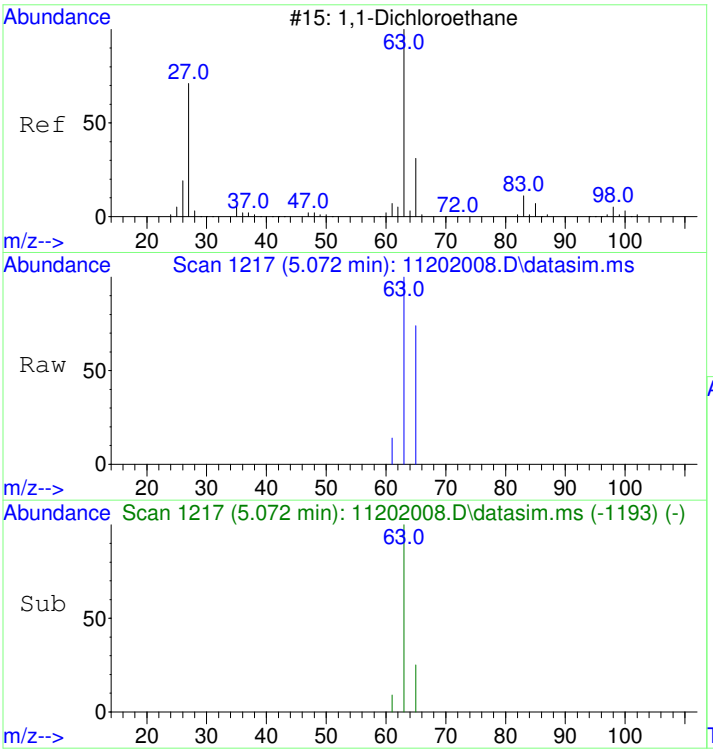


#3
trans-1,2-Dichloroethene
Concen: 124.65 ug/L
RT: 4.349 min Scan# 1108
Delta R.T. 0.007 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 61 Resp: 3116

Ion	Ratio	Lower	Upper
61	100		
63	39.0	2.4	62.4

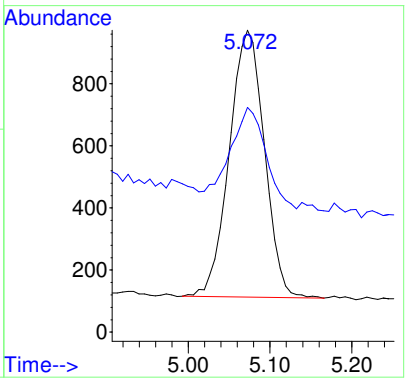


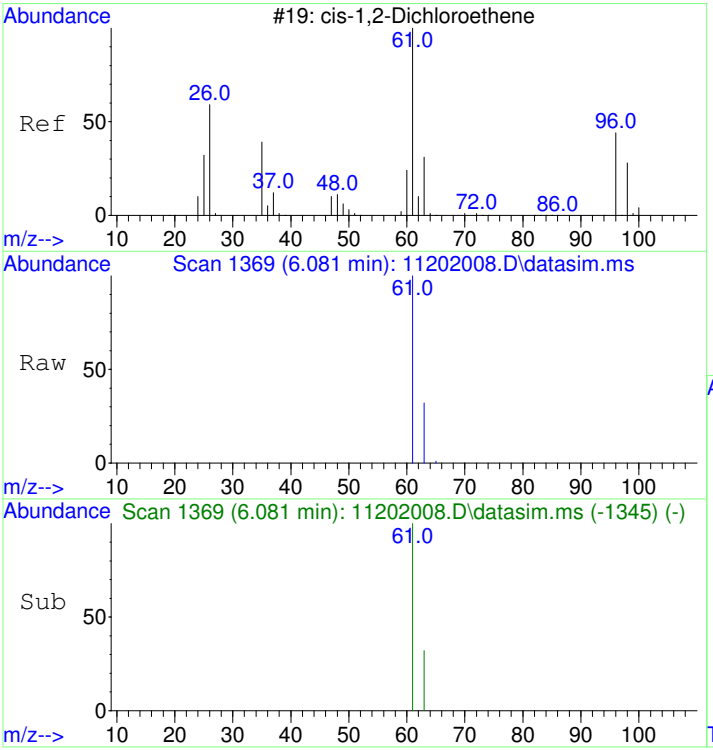


#4
1,1-Dichloroethane
Concen: 82.08 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 63 Resp: 2554

Ion	Ratio	Lower	Upper
63	100		
65	40.8	1.8	61.8

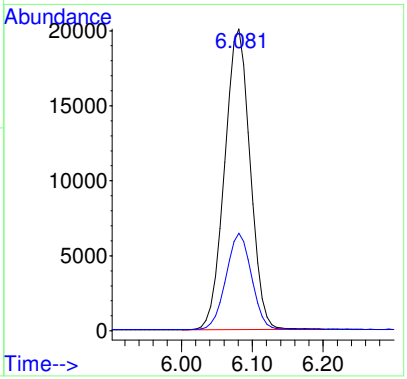


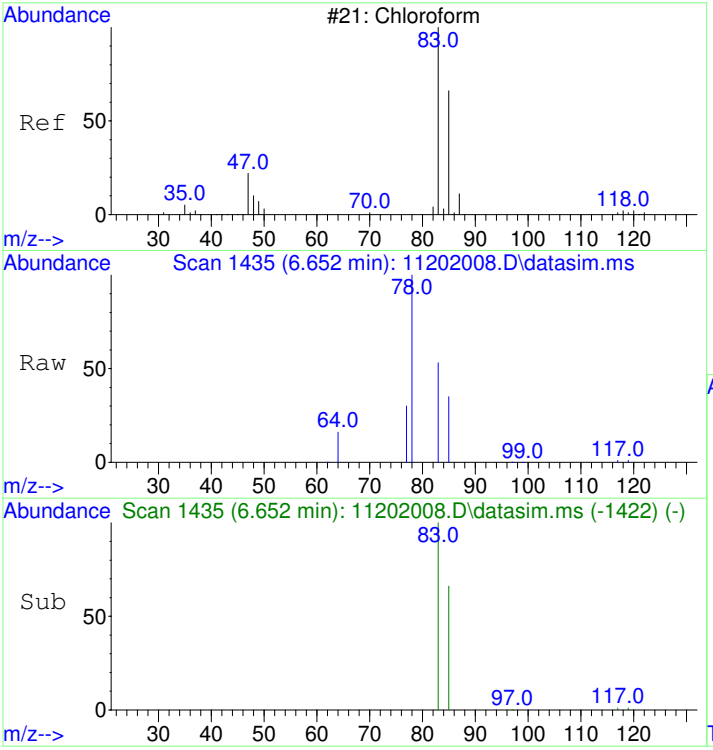


#5
cis-1,2-Dichloroethene
Concen: 1527.68 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 61 Resp: 50178

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

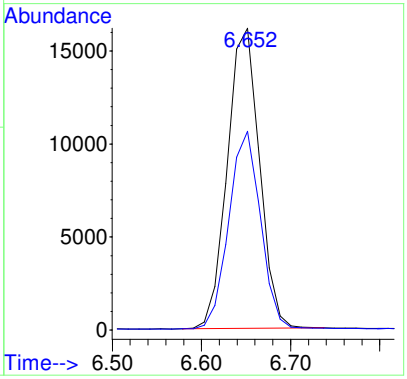


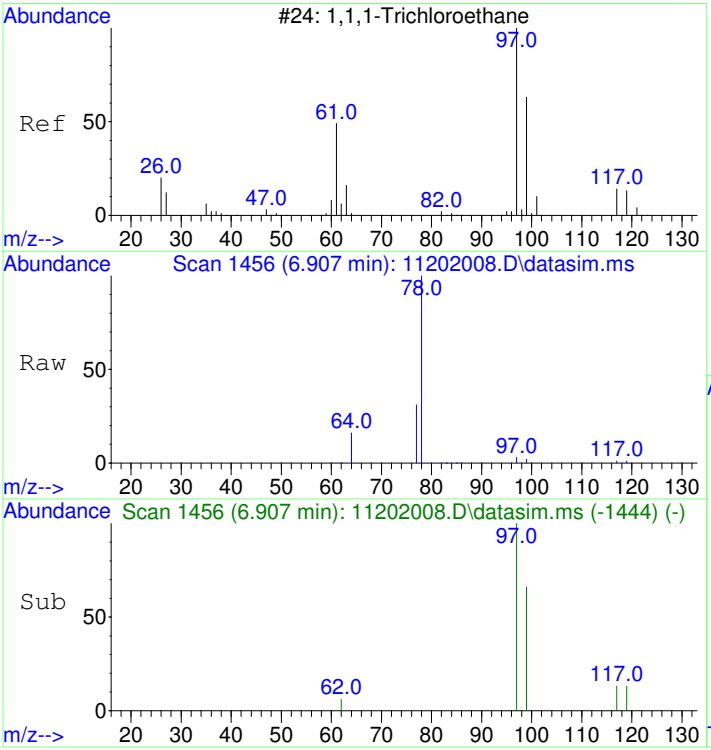


#6
Chloroform
Concen: 1202.56 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 83 Resp: 40429

Ion	Ratio	Lower	Upper
83	100		
85	64.4	35.1	95.1

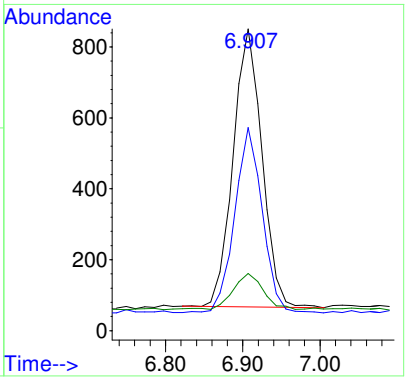


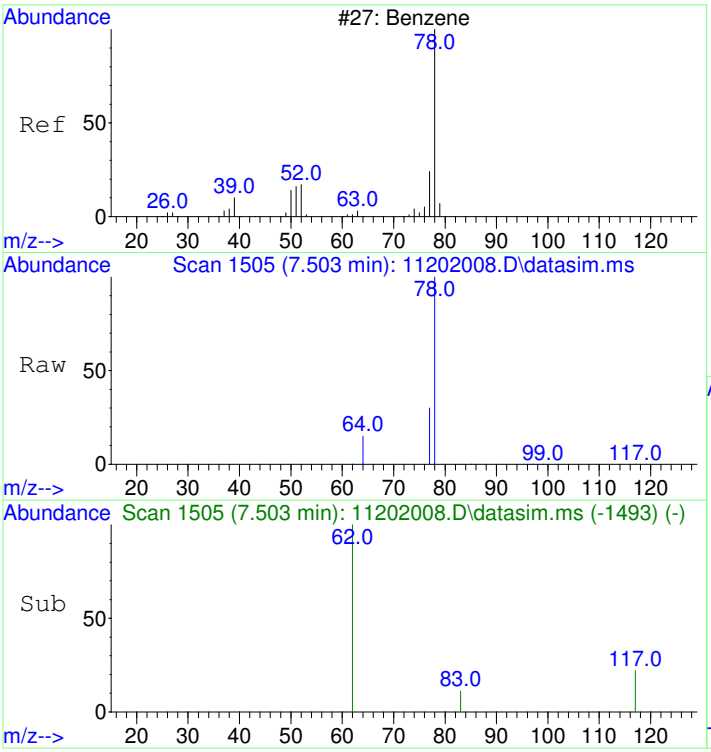


#7
1,1,1-Trichloroethane
Concen: 55.71 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 97 Resp: 2034

Ion	Ratio	Lower	Upper
97	100		
99	63.8	34.6	94.6
117	14.1	0.0	43.2

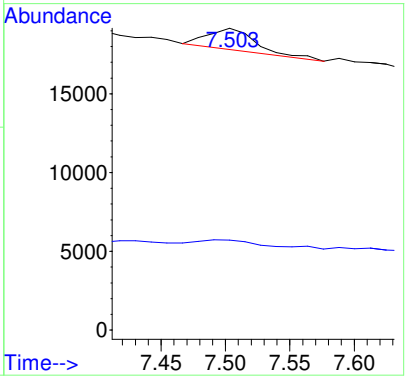


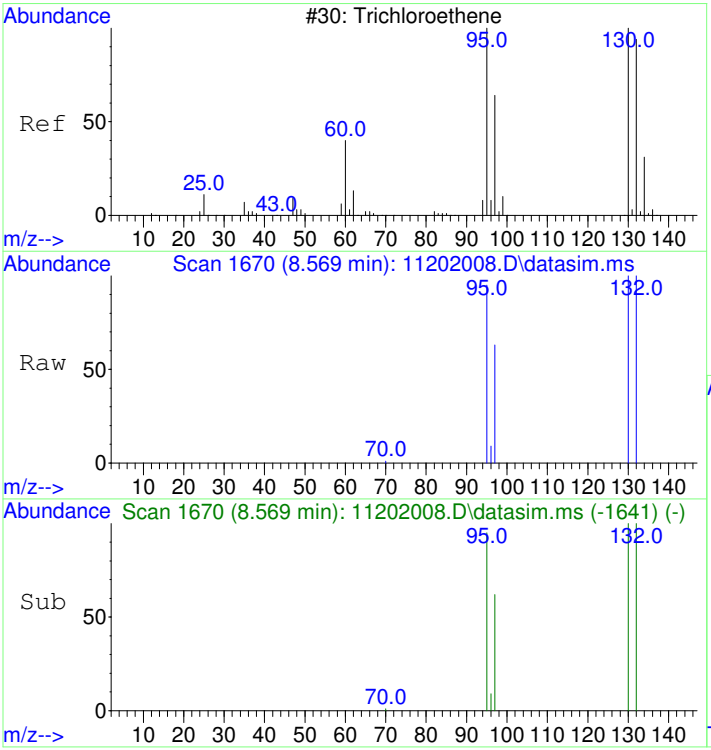


#9
Benzene
Concen: 33.74 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 78 Resp: 3106

Ion	Ratio	Lower	Upper
78	100		
77	71.7	0.0	53.2#

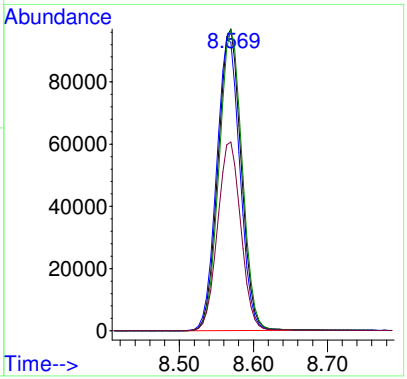


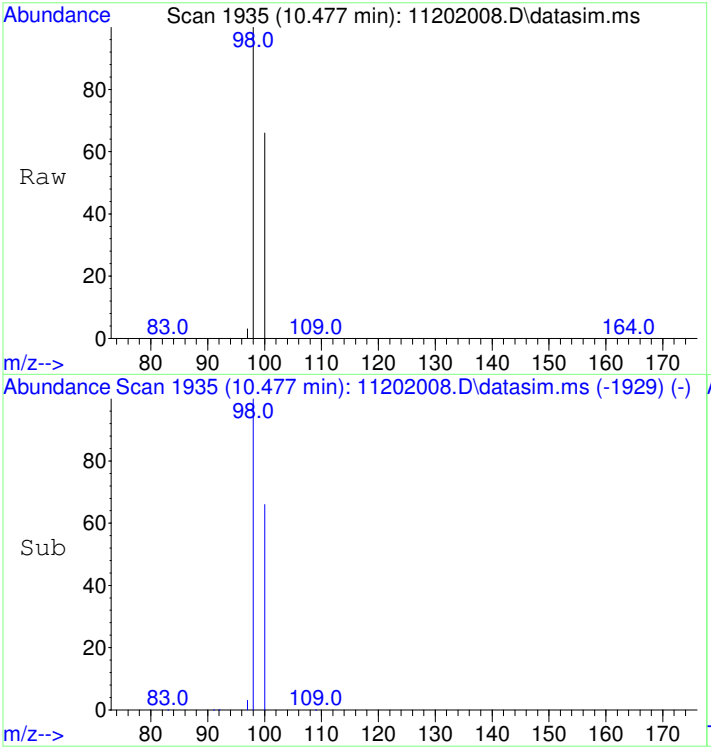


#11
Trichloroethene
Concen: 7586.97 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion:130 Resp: 210292

Ion	Ratio	Lower	Upper
130	100		
95	97.6	60.7	120.7
132	99.4	76.0	116.0
97	62.7	38.6	78.6

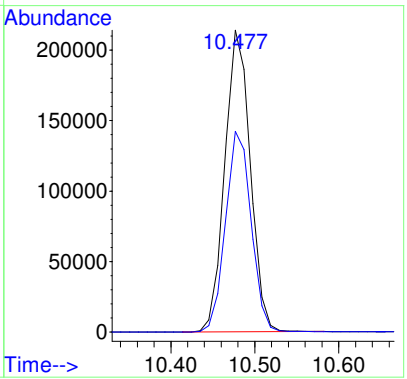


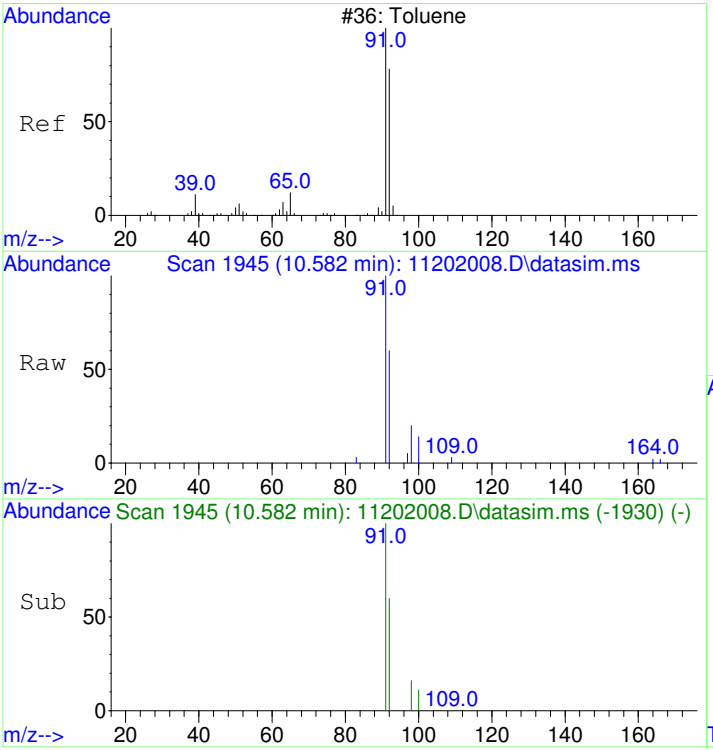


#12
Toluene-d8
Concen: 4249.34 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 98 Resp: 450715

Ion	Ratio	Lower	Upper
98	100		
100	66.7	37.1	97.1

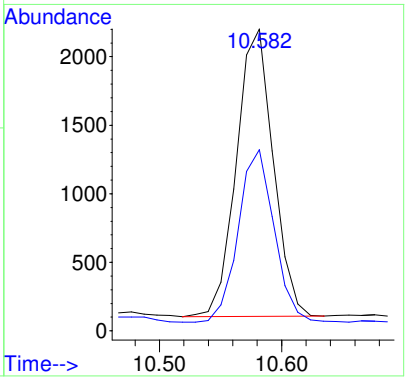


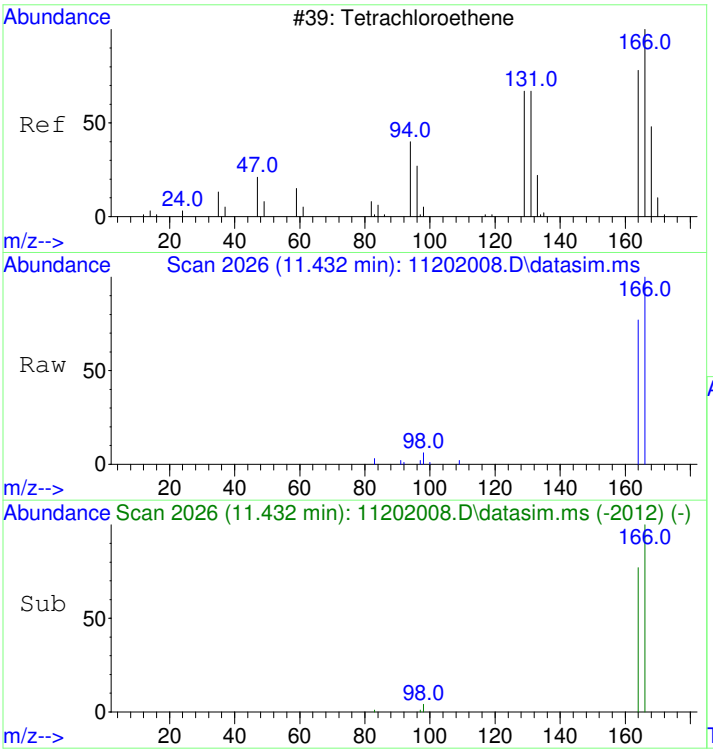


#13
Toluene
Concen: 32.45 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 91 Resp: 4388

Ion	Ratio	Lower	Upper
91	100		
92	58.6	29.9	89.9

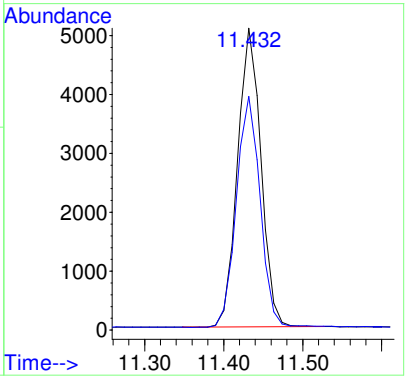


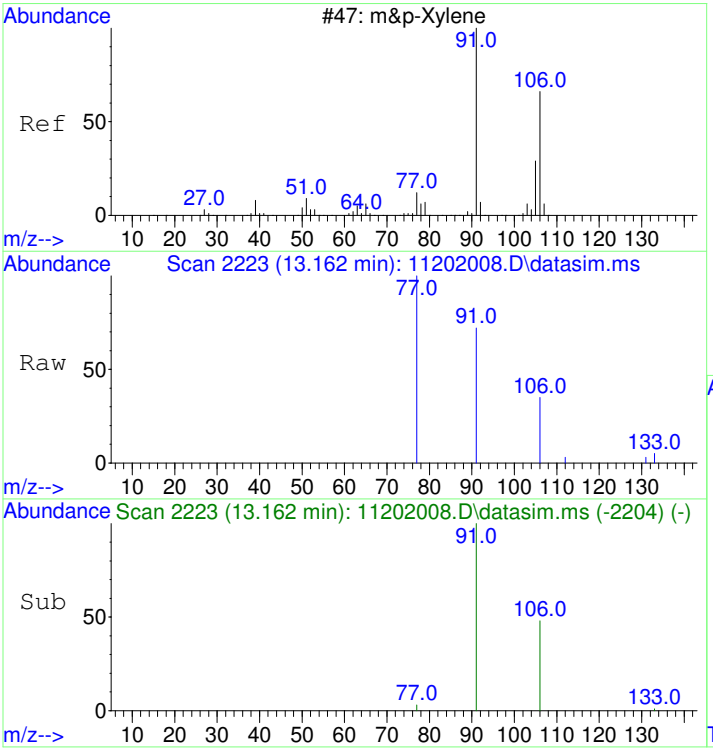


#15
Tetrachloroethene
Concen: 265.78 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion:166 Resp: 10401

Ion	Ratio	Lower	Upper
166	100		
164	77.8	47.8	107.8

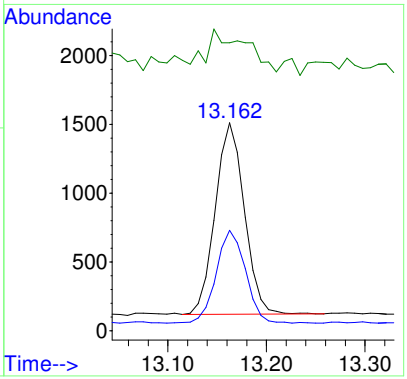


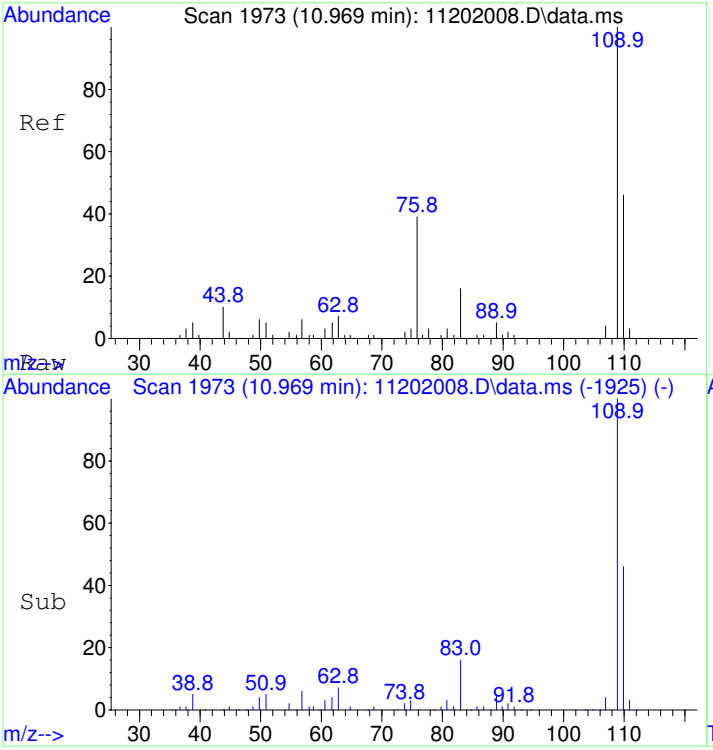


#19
m&p-Xylene
Concen: 22.11 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 91 Resp: 2844

Ion	Ratio	Lower	Upper
91	100		
106	49.1	22.2	82.2
77	13.2	0.0	42.4

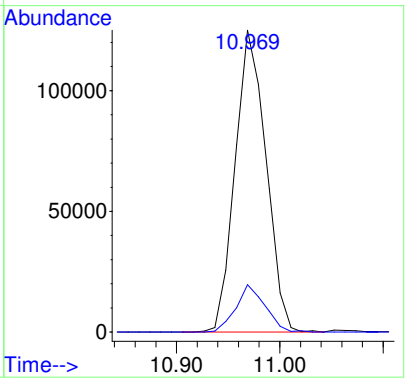


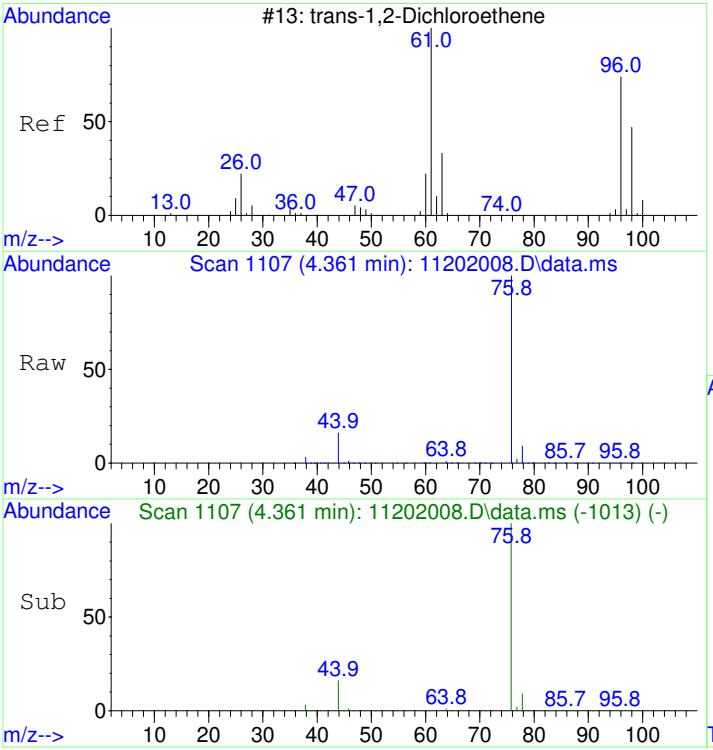


#25
2-Fluorotoluene SCAN
Concen: 4905.23 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion:109 Resp: 259082

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	43.8

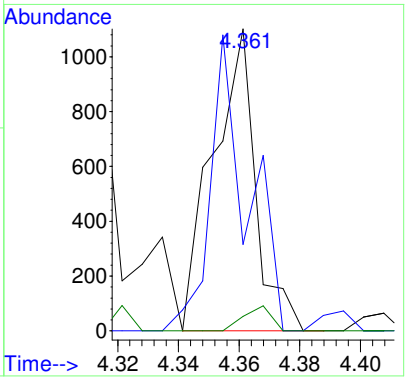


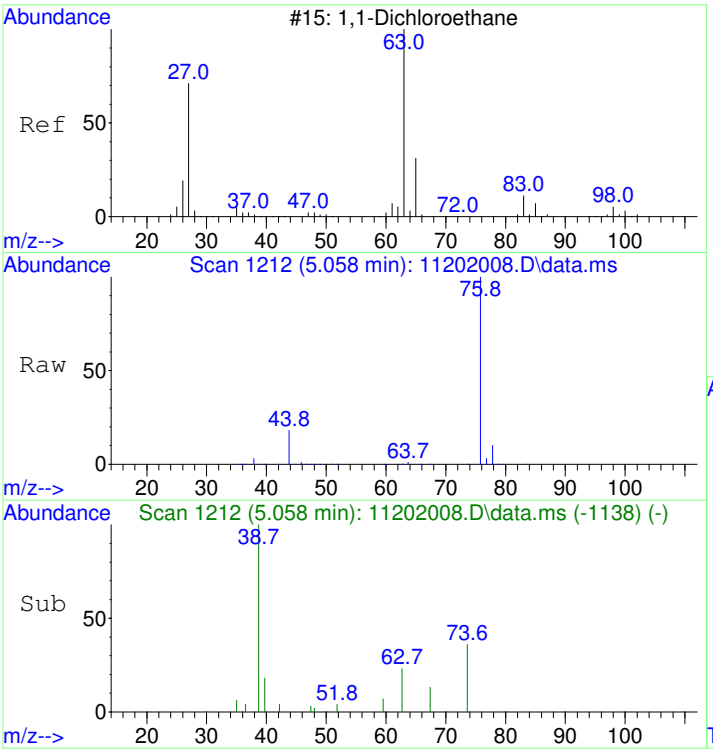


#27
trans-1,2-Dichloroethene SCAN
Concen: 77.88 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. 0.013 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 61 Resp: 1081

Ion	Ratio	Lower	Upper
61	100		
96	84.5	49.0	109.0
98	5.3	20.5	80.5#

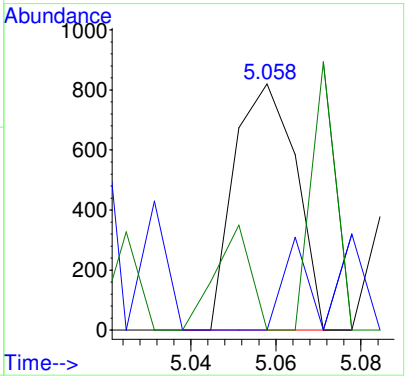


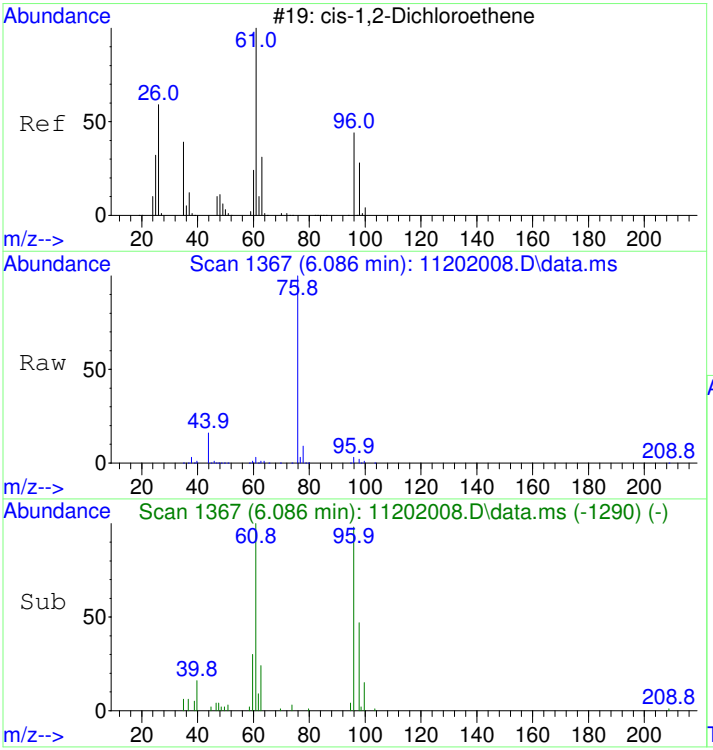


#28
1,1-Dichloroethane SCAN
Concen: 51.48 ug/L
RT: 5.058 min Scan# 1212
Delta R.T. -0.007 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 63 Resp: 827

Ion	Ratio	Lower	Upper
63	100		
65	14.9	1.3	61.3
83	43.0	0.0	45.9

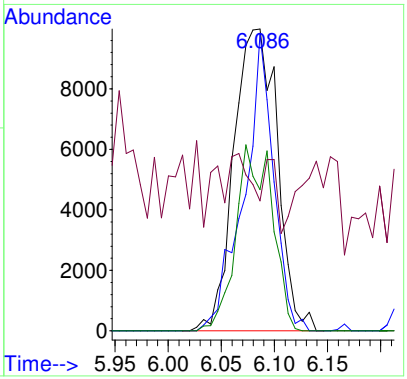


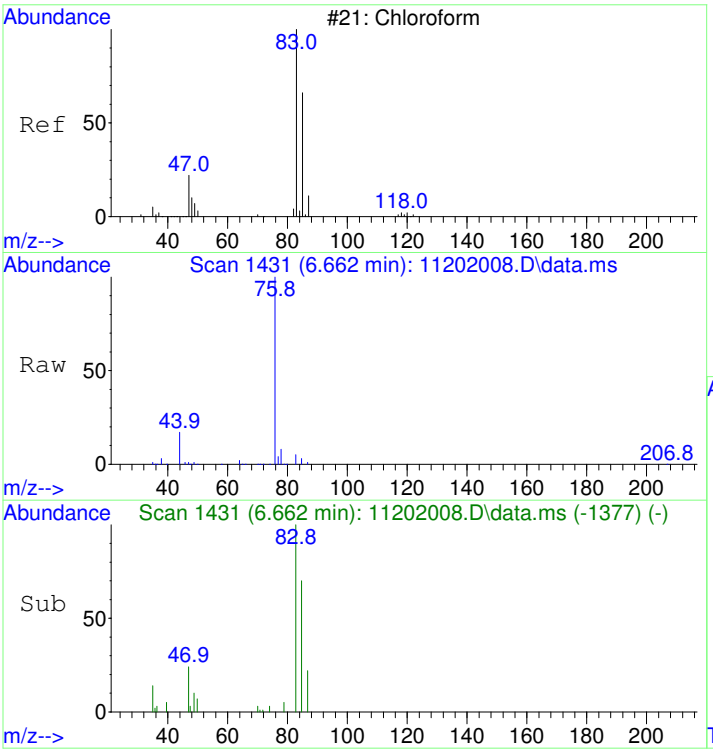


#29
cis-1,2-Dichloroethene SCAN
Concen: 1647.65 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 61 Resp: 28357

Ion	Ratio	Lower	Upper
61	100		
96	67.2	39.9	99.9
98	51.0	13.5	73.5
64	6.4	4.5	64.5

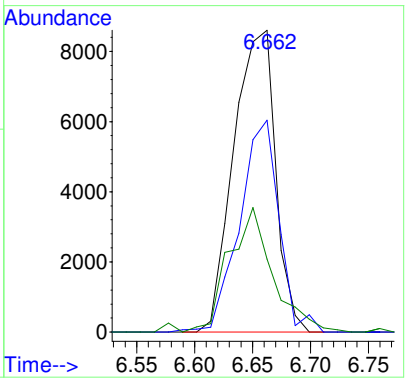


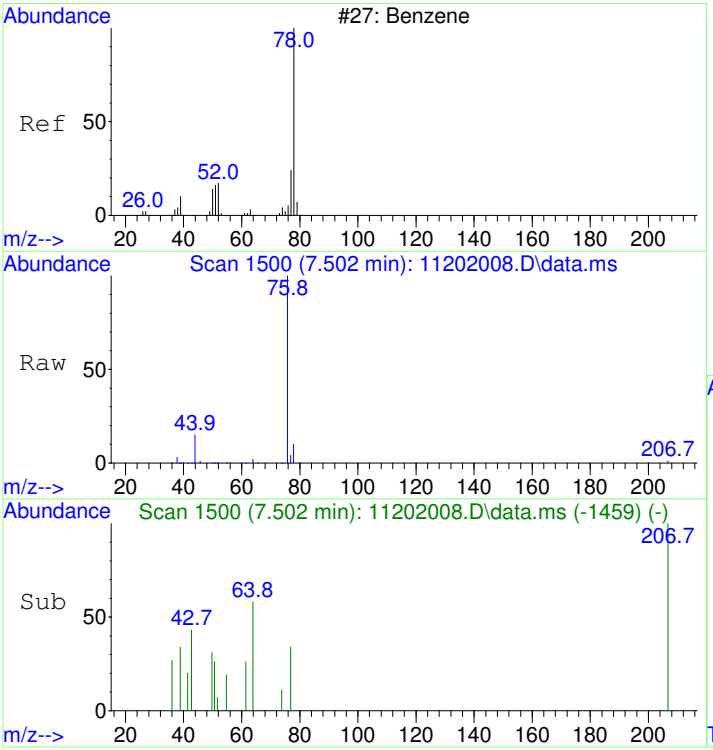


#30
Chloroform SCAN
Concen: 1158.55 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 83 Resp: 21627

Ion	Ratio	Lower	Upper
83	100		
85	66.4	34.6	94.6
47	43.3	0.0	53.4

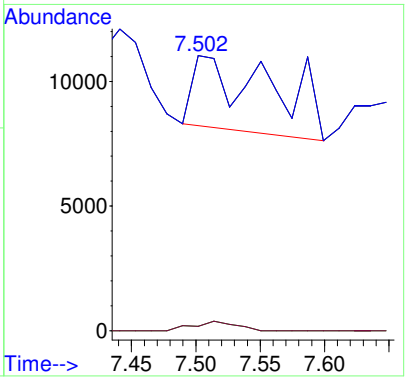


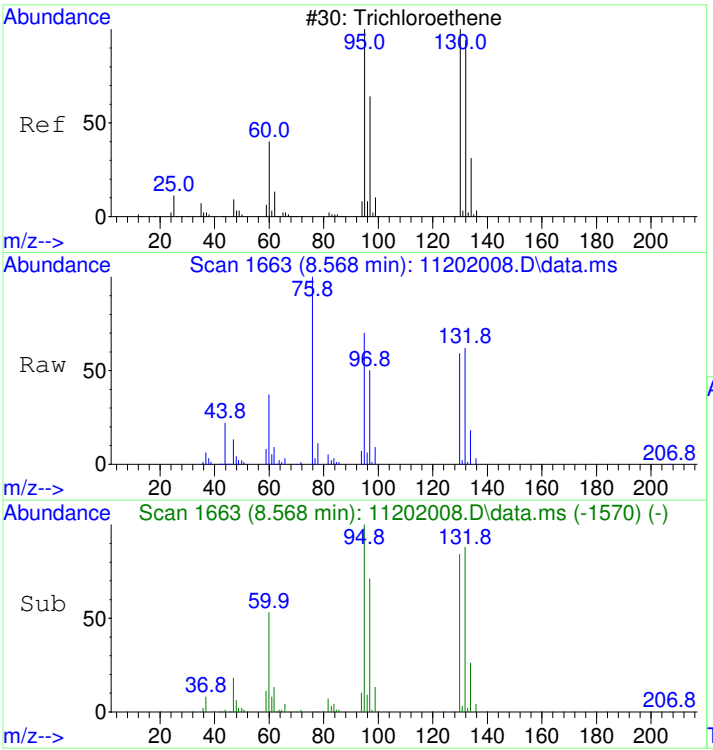


#33
Benzene SCAN
Concen: 259.02 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.000 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 78 Resp: 12132

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	7.2	0.0	47.9
51	7.2	0.0	44.1

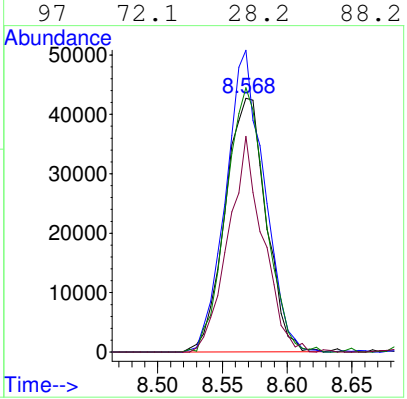


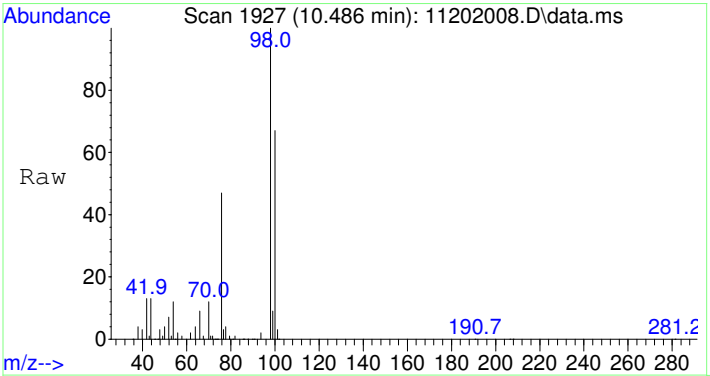


#35
Trichloroethene SCAN
Concen: 7308.78 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion:130 Resp: 94074

Ion	Ratio	Lower	Upper
130	100		
95	111.6	60.5	120.5
132	100.5	59.6	119.6
97	72.1	28.2	88.2

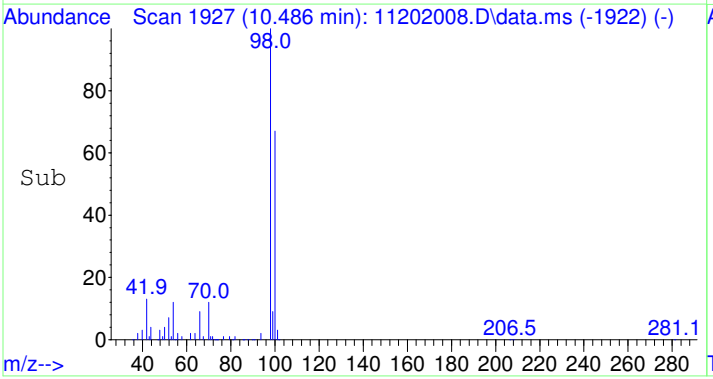


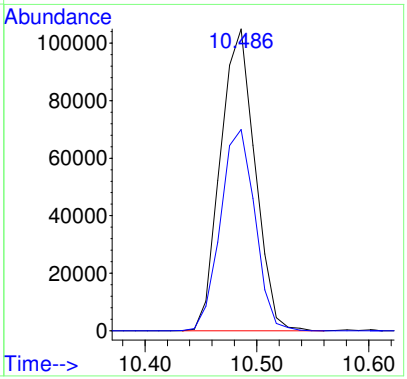


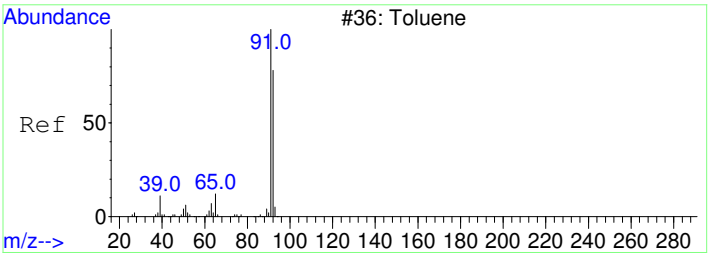
#36
Toluene-d8 SCAN
Concen: 4366.74 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion: 98 Resp: 225559

Ion	Ratio	Lower	Upper
98	100		
100	66.7	40.0	100.0



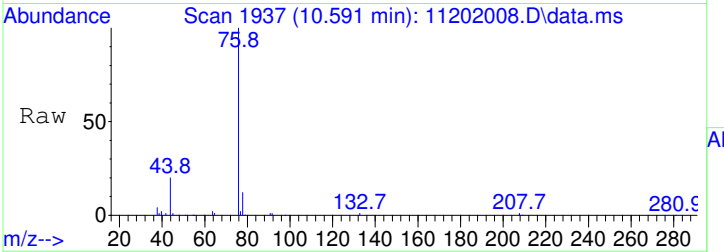


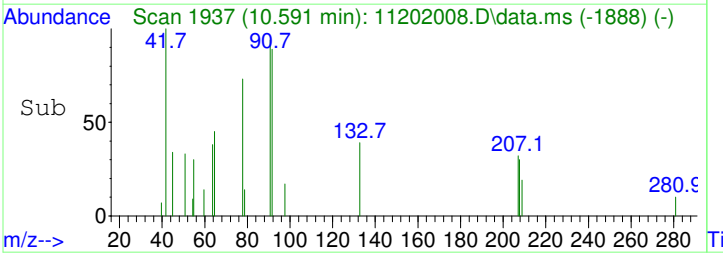


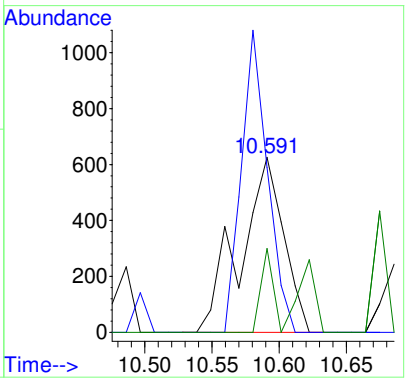
#37
Toluene SCAN
Concen: 21.22 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

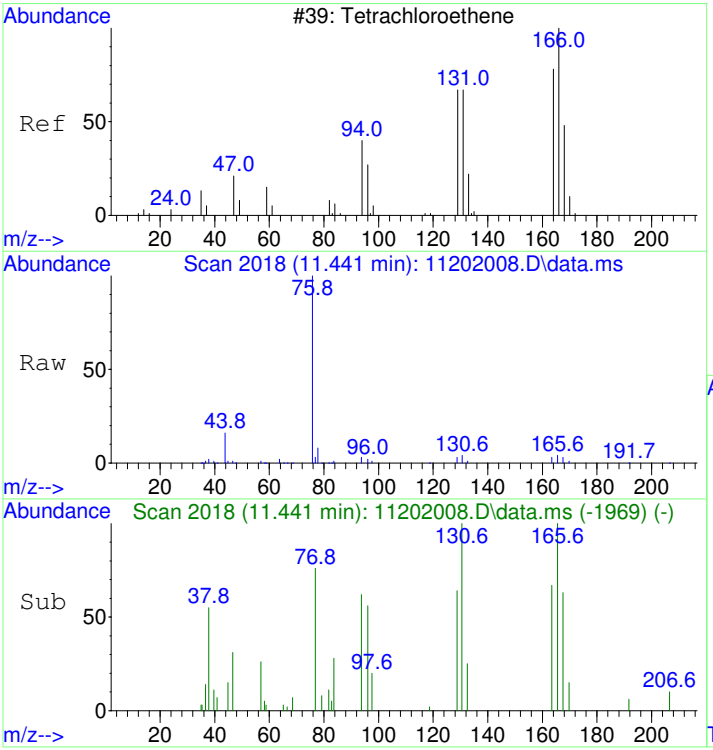
Tgt Ion: 91 Resp: 1404

Ion	Ratio	Lower	Upper
91	100		
92	104.1	28.3	88.3#
65	13.4	0.0	41.0





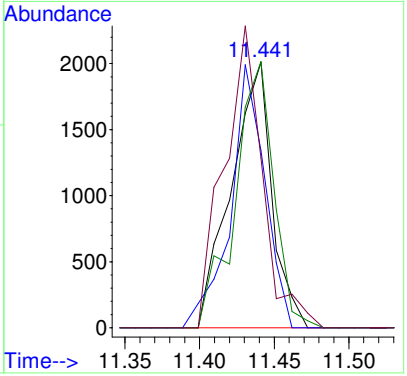




#39
Tetrachloroethene SCAN
Concen: 239.74 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11202008.D
Acq: 20 Nov 2020 12:26 pm

Tgt Ion:166 Resp: 3810

Ion	Ratio	Lower	Upper
166	100		
164	83.7	50.9	110.9
131	95.6	38.7	98.7
129	107.5	41.8	101.8#



2011017-22RE1

Quantitation Report (QT Reviewed)

Table of Contents

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202009.D
Acq On : 20 Nov 2020 12:50 pm
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-22RE1
Misc : 10X DL (180-20)
ALS Vial : 9
Multiplier: 10

report TCE

Quant Time: Nov 23 14:43:13 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	604408	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	503278	4253.56	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 85.07%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	2089m	86.55	ug/L	
3] trans-1,2-Dichloroethene	4.362	61	3736	133.98	ug/L	90
4] 1,1-Dichloroethane	5.079	63	2302	66.32	ug/L	74
5] cis-1,2-Dichloroethene	6.081	61	52320	1427.94	ug/L	99
6] Chloroform	6.652	83	49603	1322.66	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	2300	56.47	ug/L	99
9] Benzene	7.503	78	2150	20.94	ug/L #	1
11] Trichloroethene	8.569	130	241401	7807.45	ug/L	95
13] Toluene	10.582	91	3183	21.10	ug/L	100
15] Tetrachloroethene	11.432	166	12208	279.65	ug/L	99
25) 2-Fluorotoluene SCAN	10.969	109	296054	5024.79	ug/L	98
26) 1,1-Dichloroethene SCAN	3.111	61	386	30.85	ug/L	77
27) trans-1,2-Dichloroethe...	4.368	61	1607	103.79	ug/L #	51
29) cis-1,2-Dichloroethene...	6.080	61	31621	1647.05	ug/L	89
30) Chloroform SCAN	6.650	83	26161	1256.32	ug/L	94
33) Benzene SCAN	7.877	78	1237	23.68	ug/L	97
35) Trichloroethene SCAN	8.568	130	109373	7617.46	ug/L	85
36) Toluene-d8 SCAN	10.486	98	255168	4428.41	ug/L	94
37) Toluene SCAN	10.580	91	2453	33.24	ug/L #	88
39) Tetrachloroethene SCAN	11.430	166	4143	233.69	ug/L	81

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

M.I. Performed By:
LLH at 2:43 pm, Nov 23, 2020

M.I. Approved By:
ZR at 4:20 pm, Nov 23, 2020

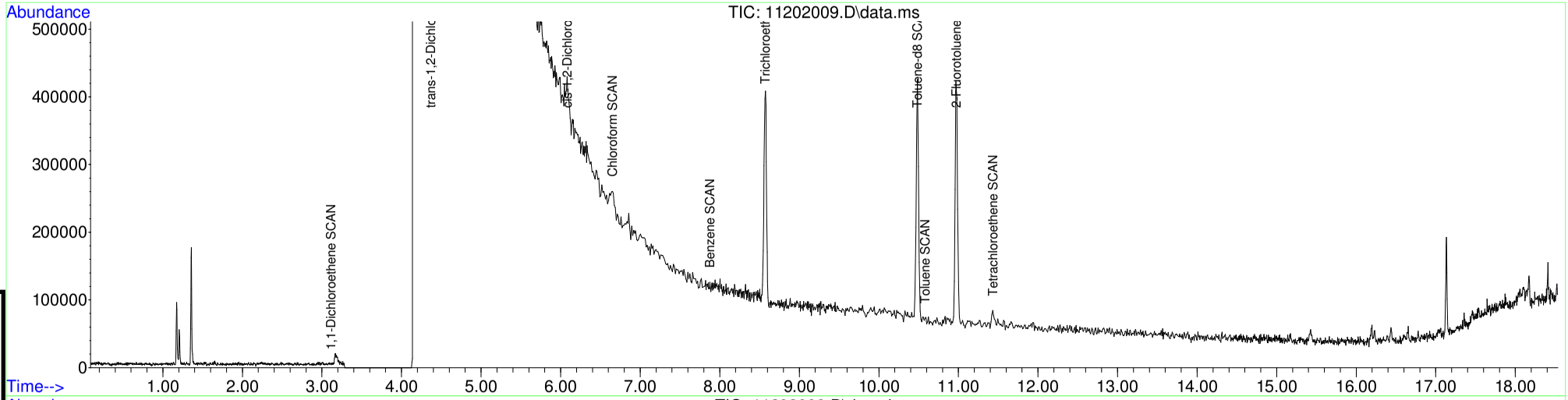
REVIEWED
By LLH at 2:43 pm, Nov 23, 2020

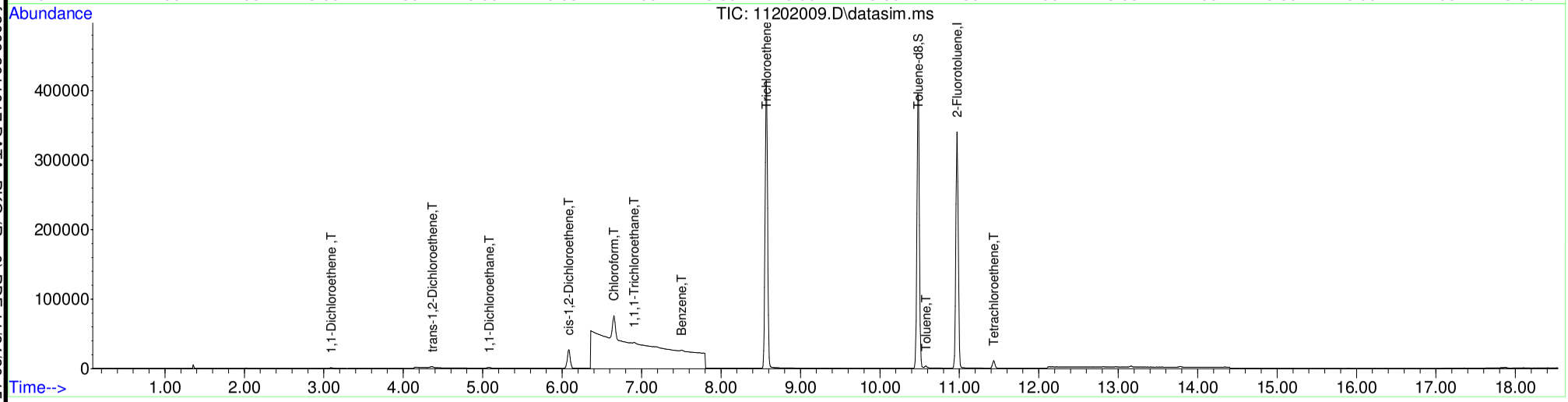
Quantitation Report (QT Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202009.D
Acq On : 20 Nov 2020 12:50 pm
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-22RE1
Misc : 10X DL (180-20)
ALS Vial : 9
Multiplier: 10

Quant Time: Nov 23 14:43:13 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M





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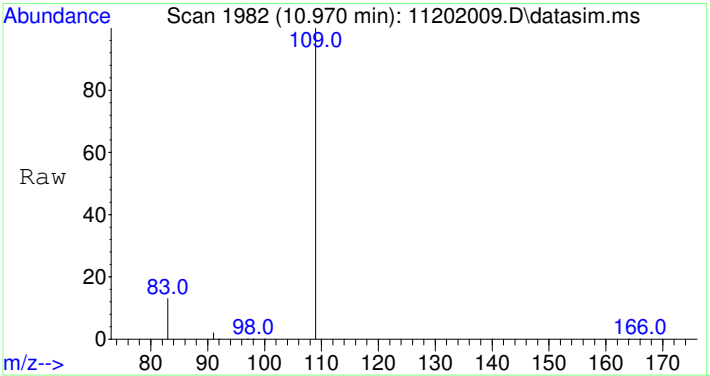
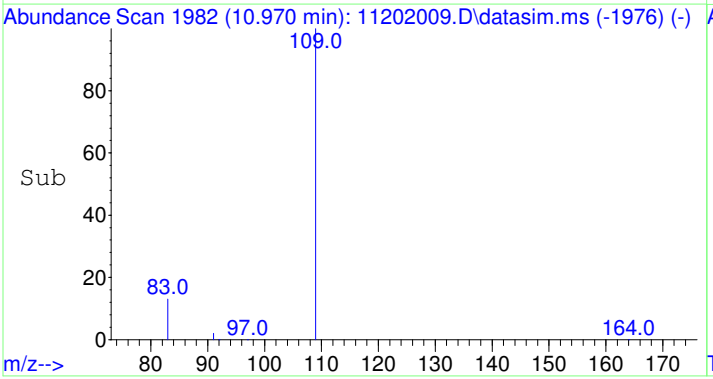
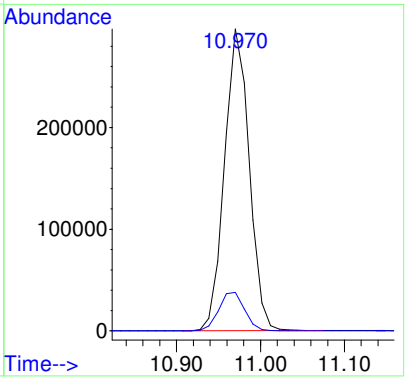


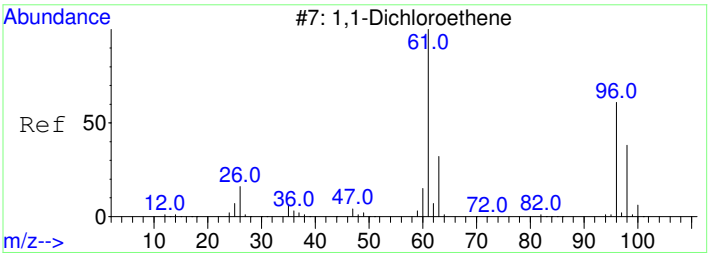
#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion:109 Resp: 604408

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3



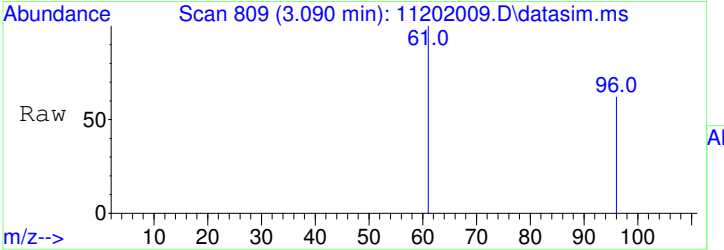


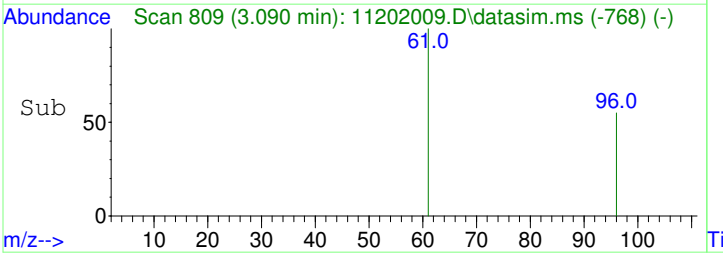


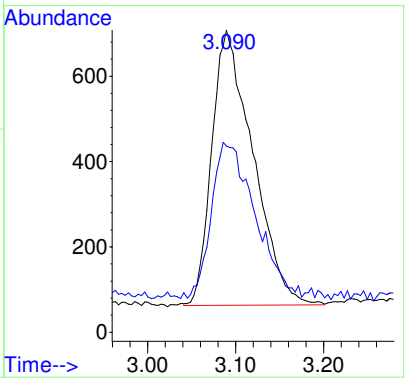
#2
1,1-Dichloroethene
Concen: 86.55 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

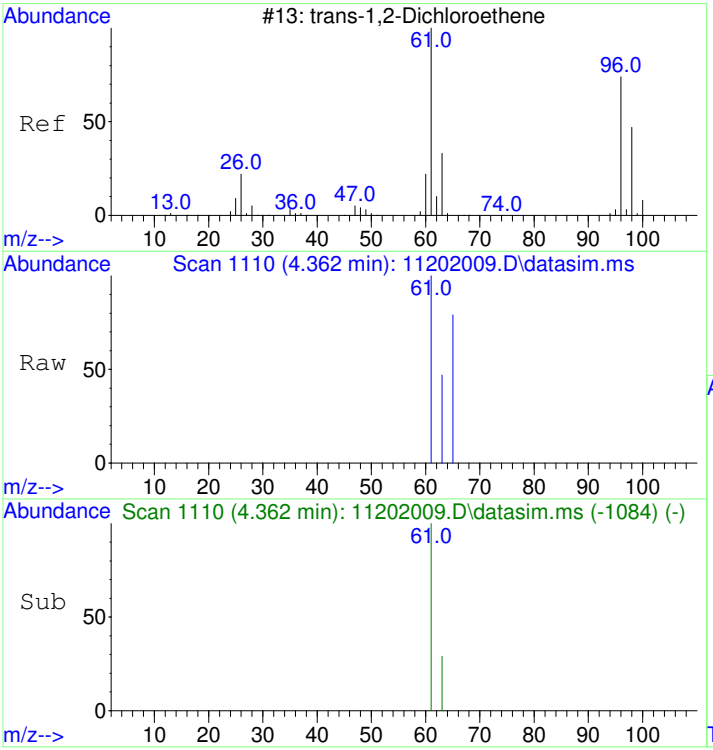
Tgt Ion: 61 Resp: 2089

Ion	Ratio	Lower	Upper
61	100		
96	59.9	37.2	97.2





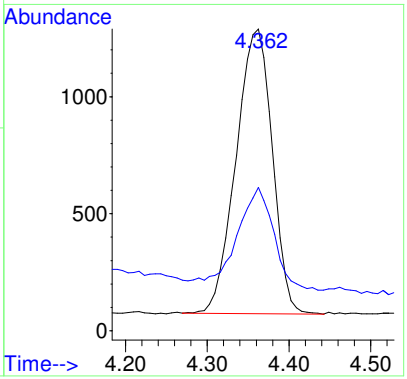


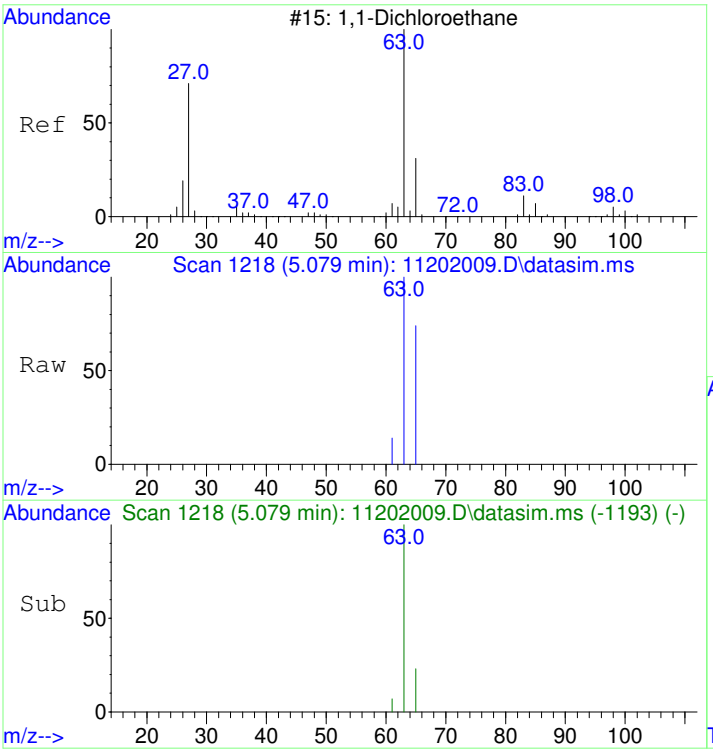


#3
trans-1,2-Dichloroethene
Concen: 133.98 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. 0.020 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 61 Resp: 3736

Ion	Ratio	Lower	Upper
61	100		
63	38.1	2.4	62.4

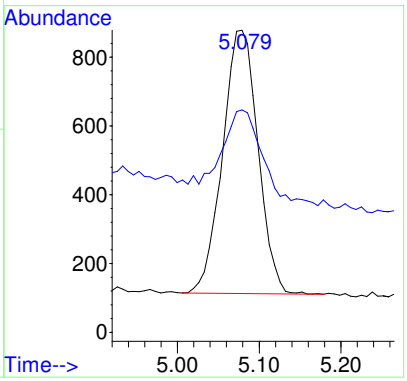


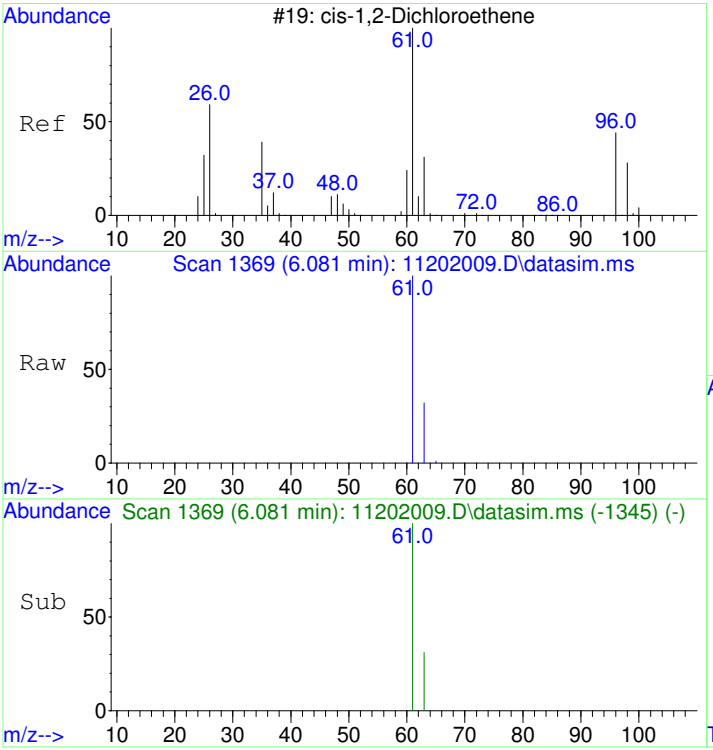


#4
1,1-Dichloroethane
Concen: 66.32 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 63 Resp: 2302

Ion	Ratio	Lower	Upper
63	100		
65	46.4	1.8	61.8

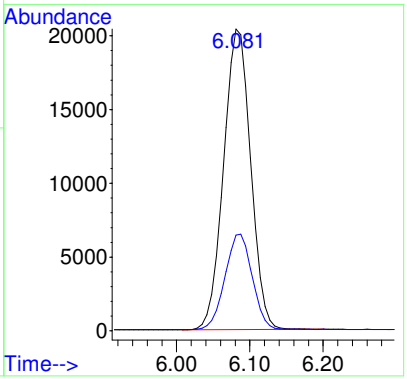


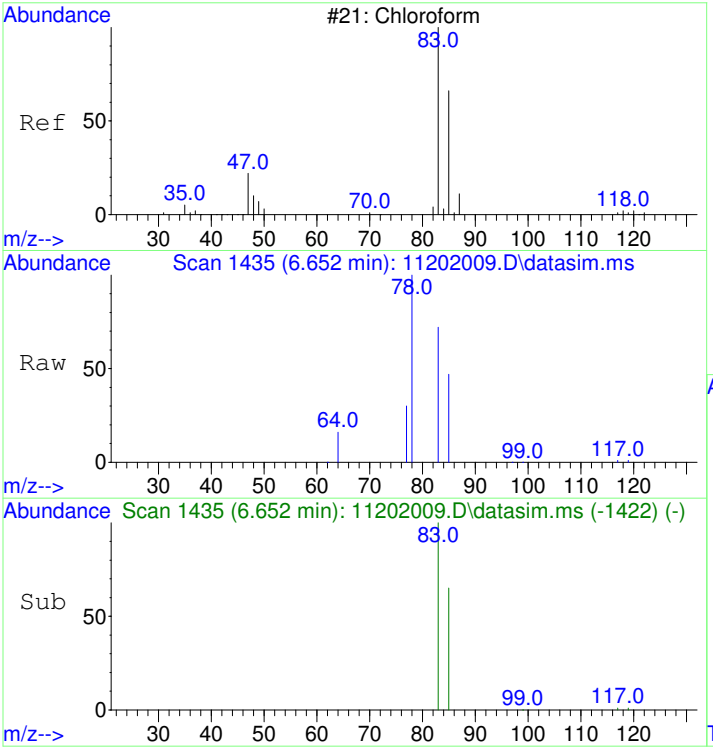


#5
cis-1,2-Dichloroethene
Concen: 1427.94 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 61 Resp: 52320

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

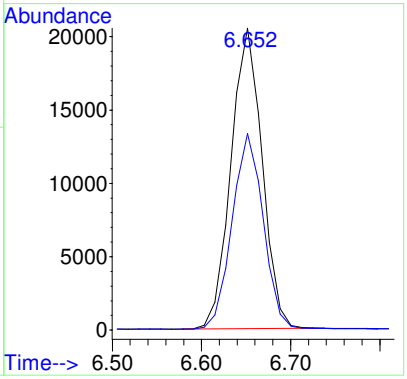


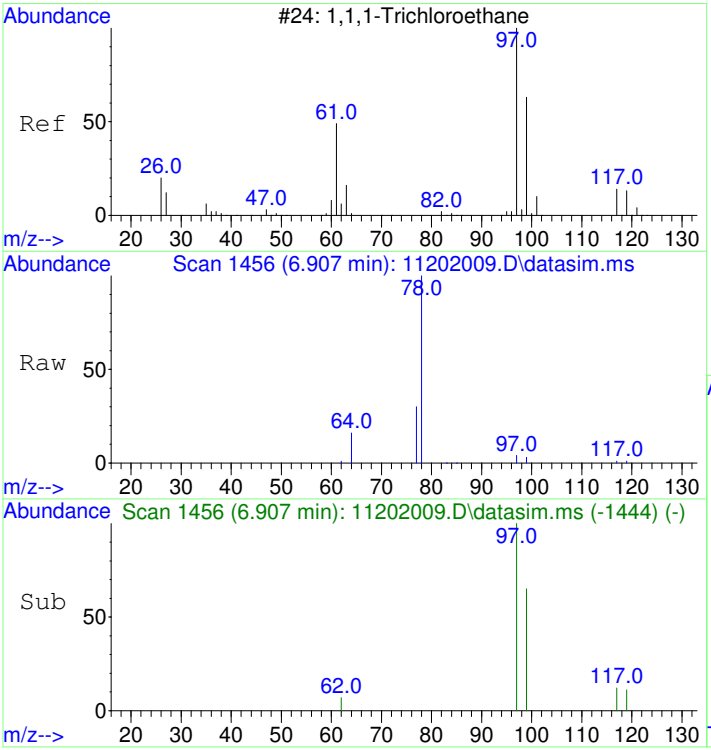


#6
Chloroform
Concen: 1322.66 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 83 Resp: 49603

Ion	Ratio	Lower	Upper
83	100		
85	64.7	35.1	95.1

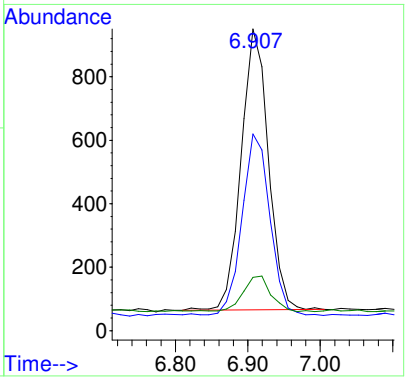


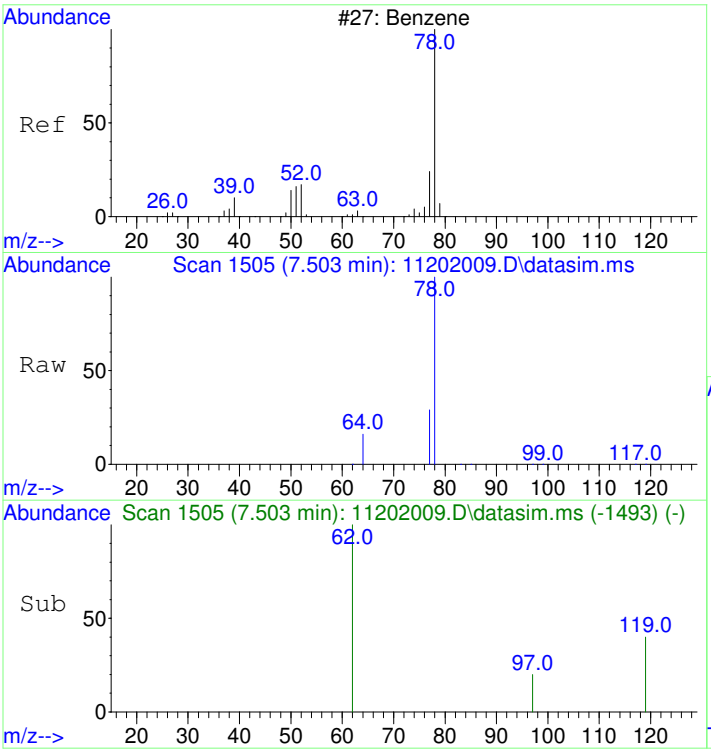


#7
1,1,1-Trichloroethane
Concen: 56.47 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 97 Resp: 2300

Ion	Ratio	Lower	Upper
97	100		
99	65.8	34.6	94.6
117	13.1	0.0	43.2

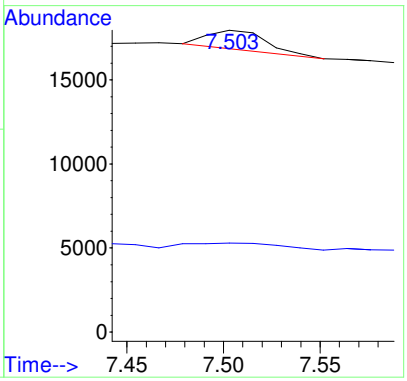


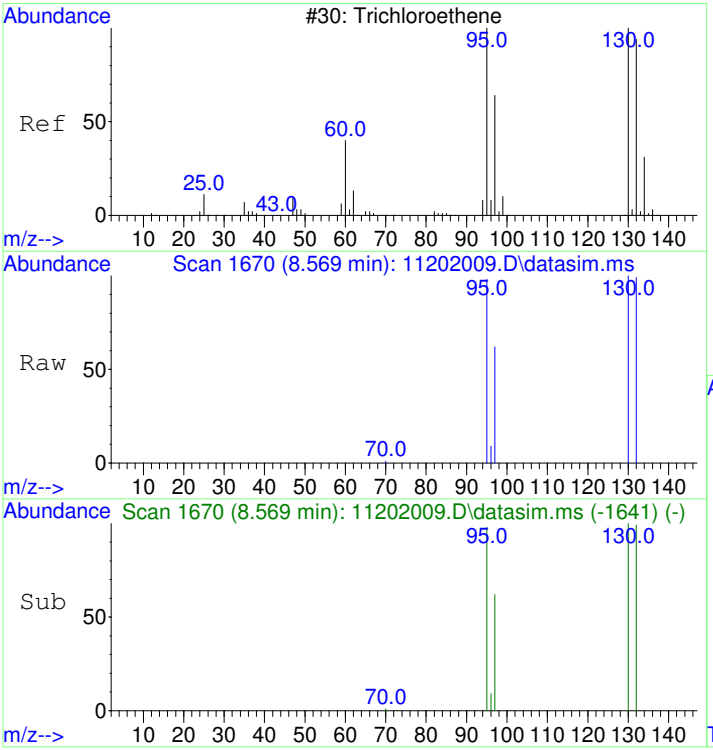


#9
Benzene
Concen: 20.94 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 78 Resp: 2150

Ion	Ratio	Lower	Upper
78	100		
77	88.3	0.0	53.2#

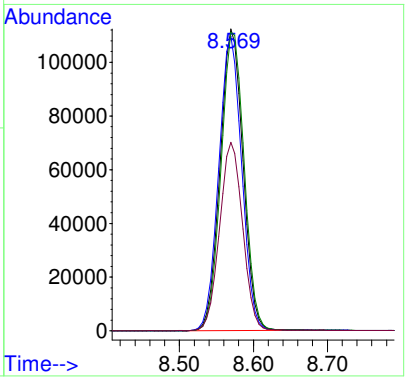


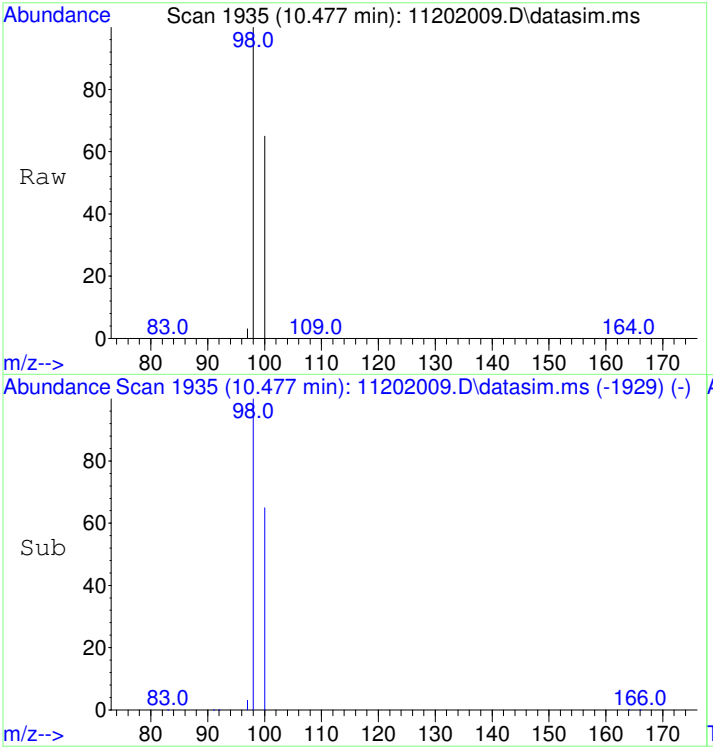


#11
Trichloroethene
Concen: 7807.45 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion:130 Resp: 241401

Ion	Ratio	Lower	Upper
130	100		
95	97.6	60.7	120.7
132	99.8	76.0	116.0
97	62.5	38.6	78.6

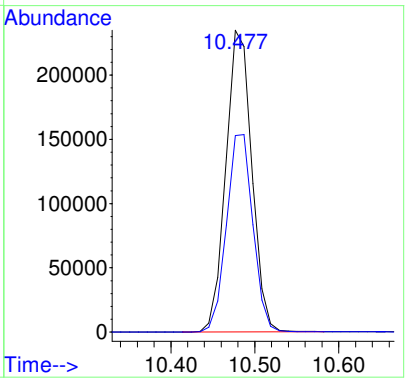


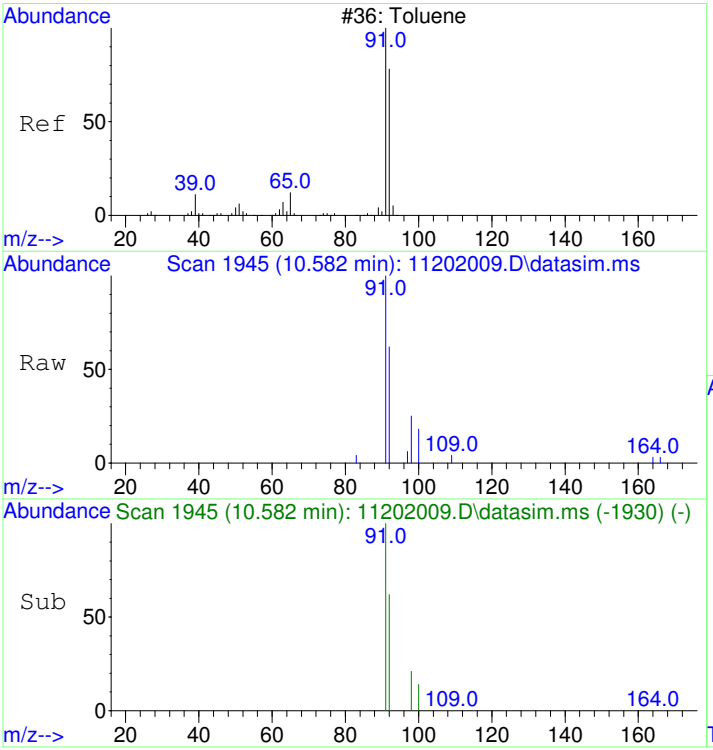


#12
Toluene-d8
Concen: 4253.56 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 98 Resp: 503278

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

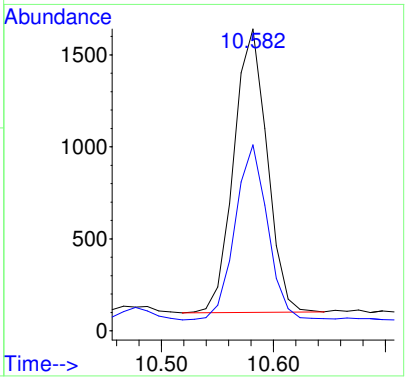


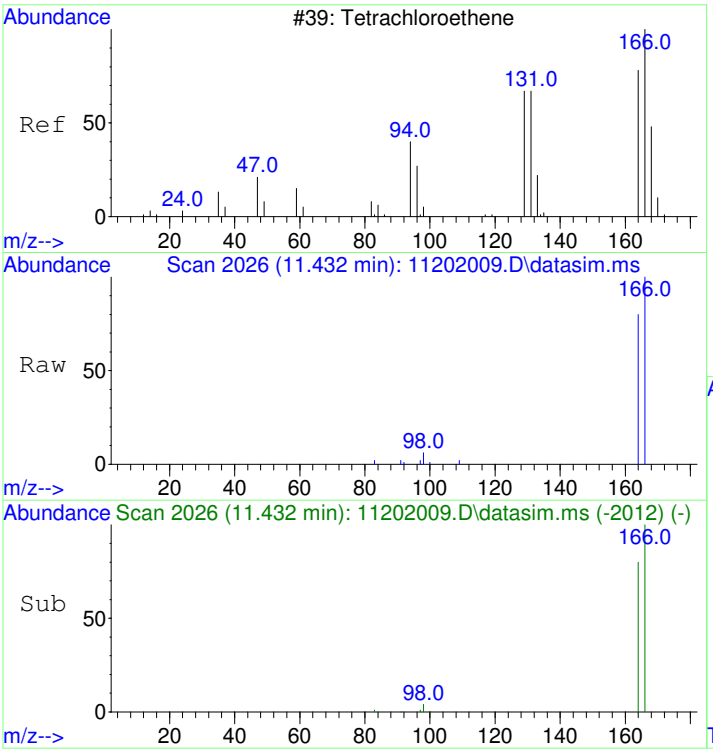


#13
Toluene
Concen: 21.10 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 91 Resp: 3183

Ion	Ratio	Lower	Upper
91	100		
92	59.8	29.9	89.9

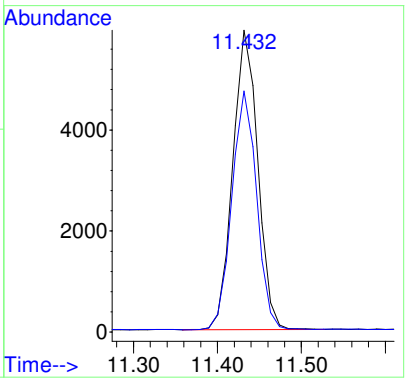


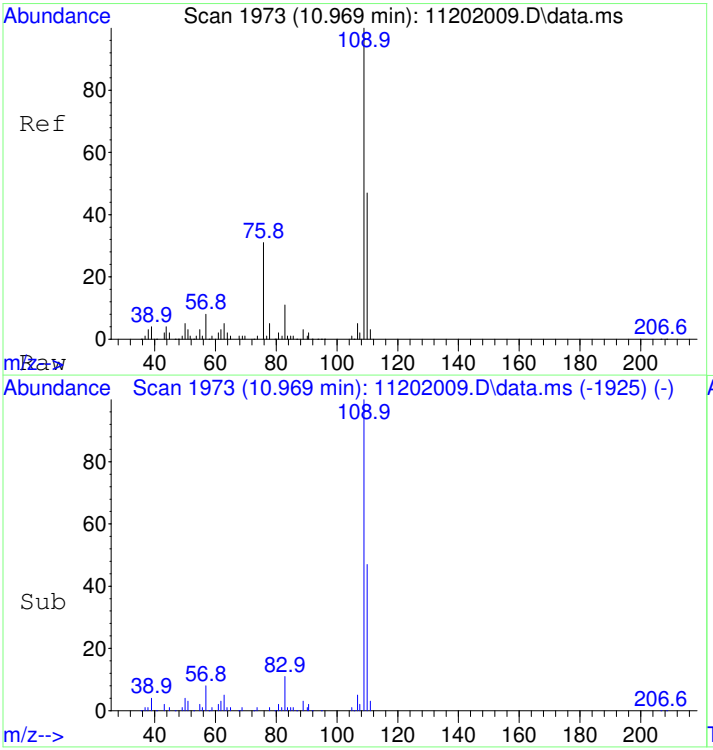


#15
Tetrachloroethene
Concen: 279.65 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion:166 Resp: 12208

Ion	Ratio	Lower	Upper
166	100		
164	79.0	47.8	107.8

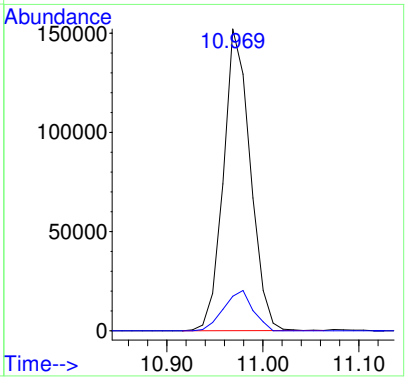


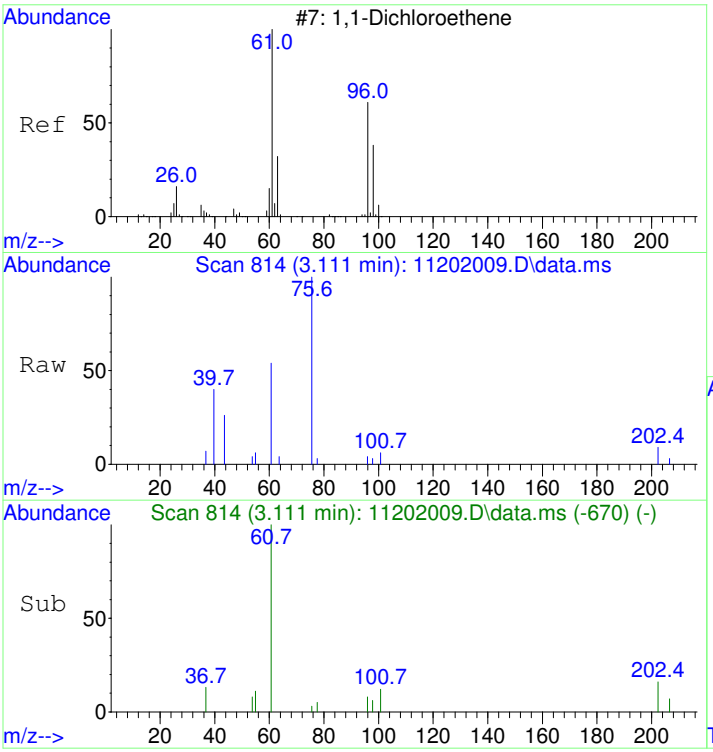


#25
2-Fluorotoluene SCAN
Concen: 5024.79 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion:109 Resp: 296054

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	43.8

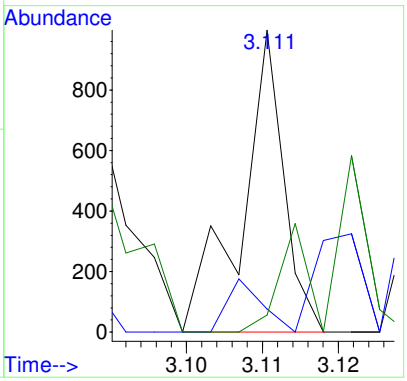


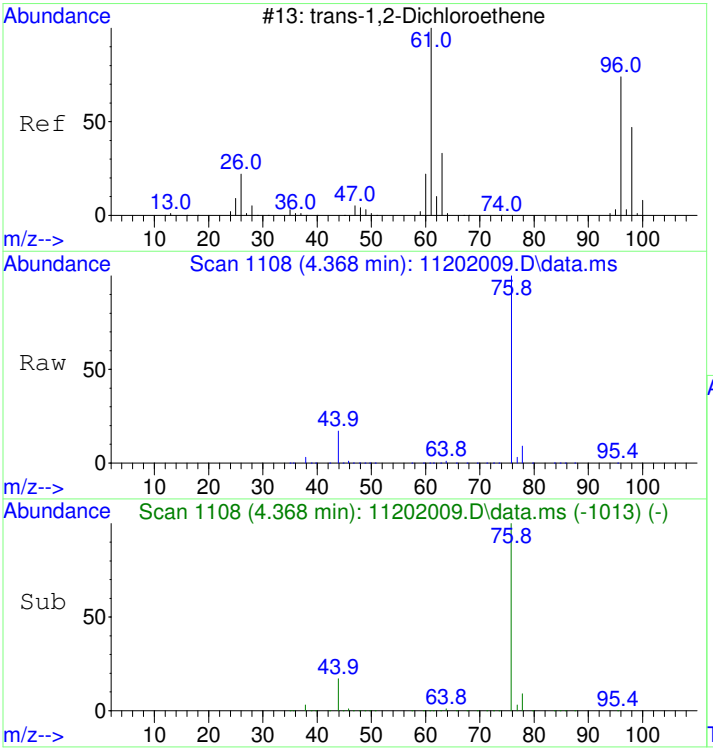


#26
1,1-Dichloroethene SCAN
Concen: 30.85 ug/L
RT: 3.111 min Scan# 814
Delta R.T. 0.033 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 61 Resp: 386

Ion	Ratio	Lower	Upper
61	100		
96	50.8	33.1	93.1
98	61.9	11.2	71.2

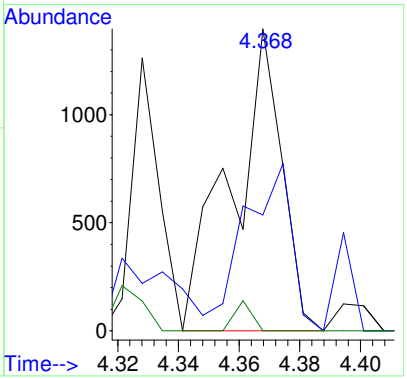


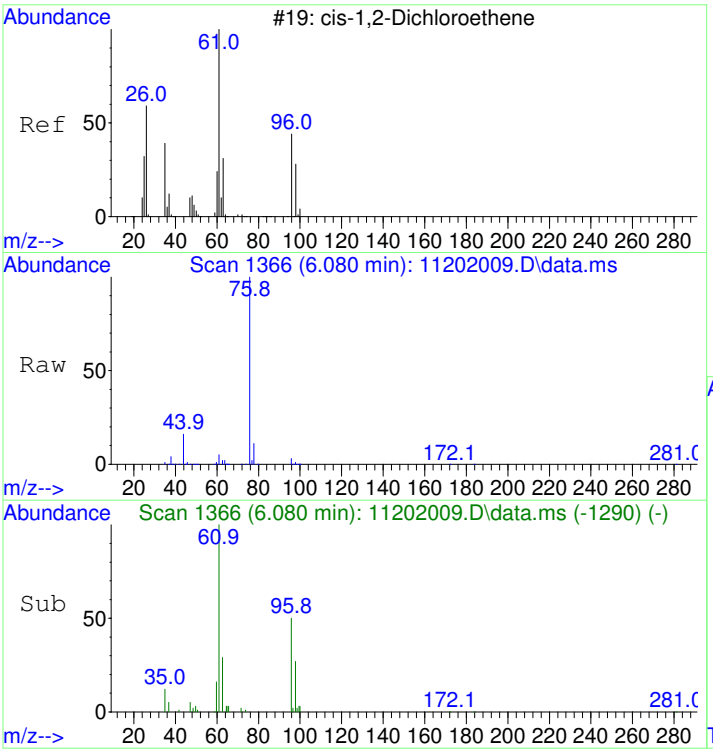


#27
trans-1,2-Dichloroethene SCAN
Concen: 103.79 ug/L
RT: 4.368 min Scan# 1108
Delta R.T. 0.020 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 61 Resp: 1607

Ion	Ratio	Lower	Upper
61	100		
96	46.5	49.0	109.0#
98	3.5	20.5	80.5#

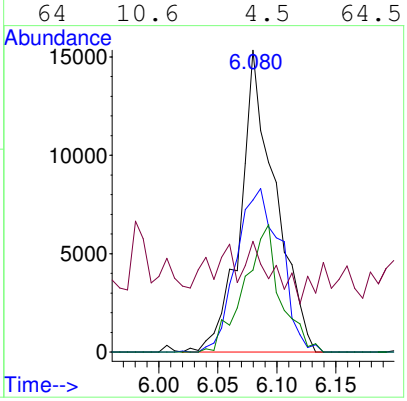


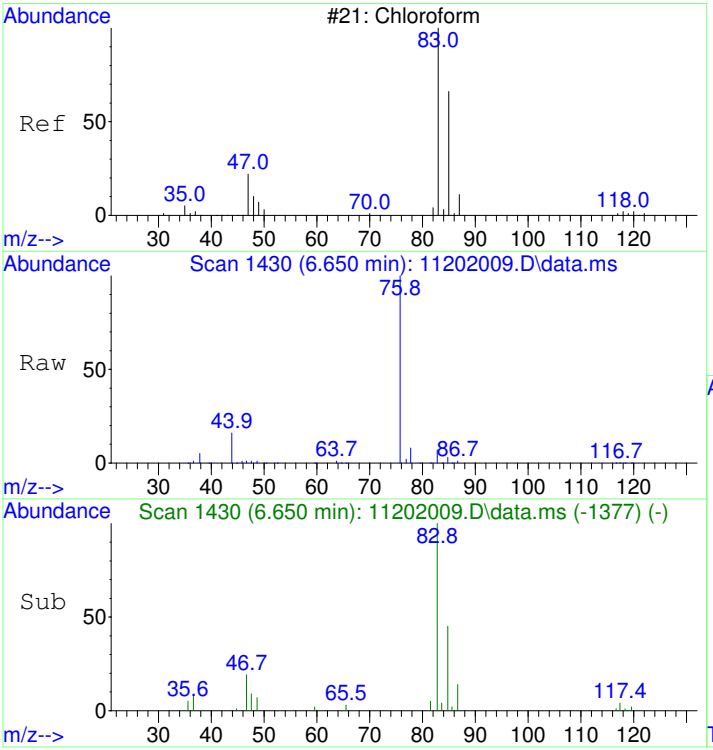


#29
cis-1,2-Dichloroethene SCAN
Concen: 1647.05 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.007 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 61 Resp: 31621

Ion	Ratio	Lower	Upper
61	100		
96	68.6	39.9	99.9
98	43.8	13.5	73.5
64	10.6	4.5	64.5

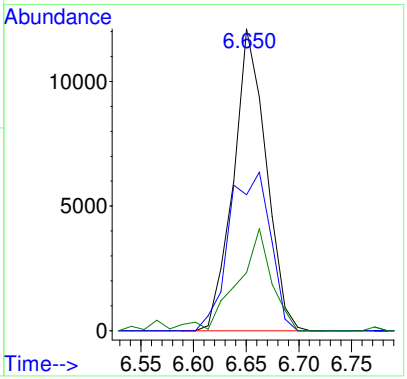


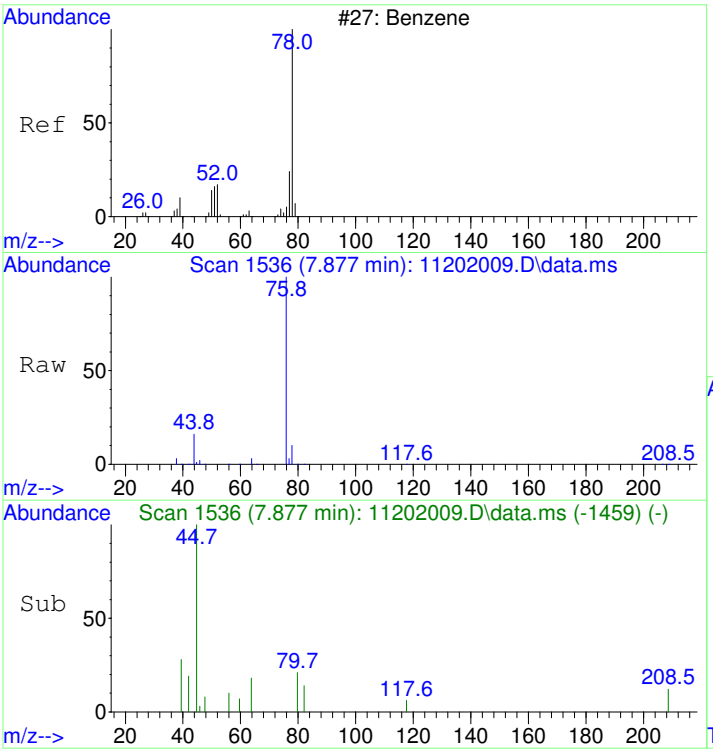


#30
Chloroform SCAN
Concen: 1256.32 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 83 Resp: 26161

Ion	Ratio	Lower	Upper
83	100		
85	66.6	34.6	94.6
47	31.6	0.0	53.4

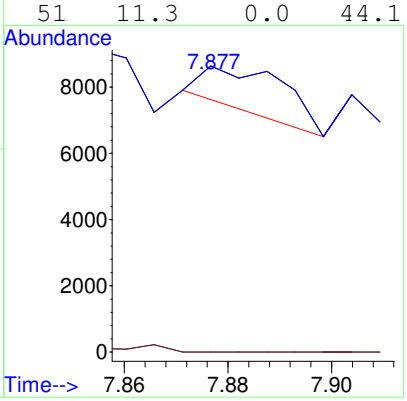


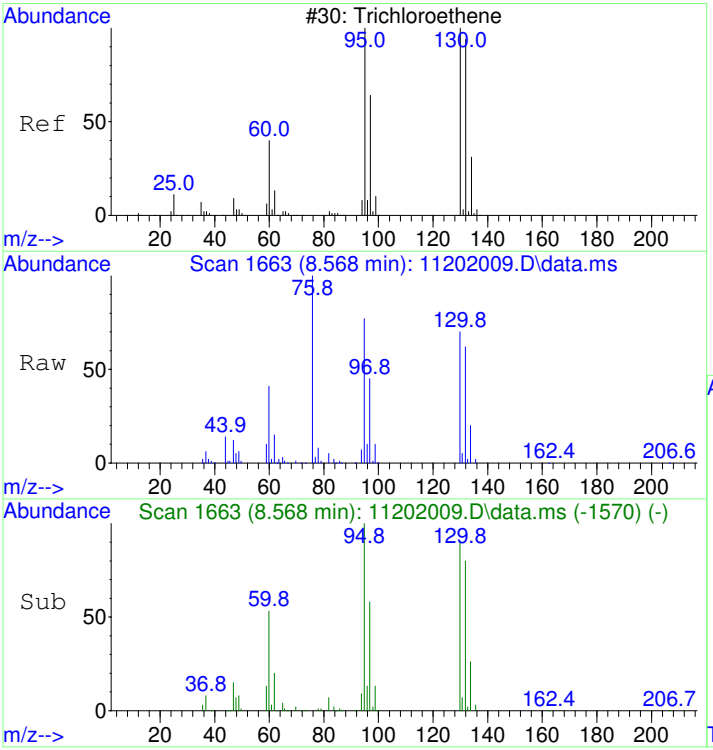


#33
Benzene SCAN
Concen: 23.68 ug/L
RT: 7.877 min Scan# 1536
Delta R.T. 0.375 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 78 Resp: 1237

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	11.3	0.0	47.9
51	11.3	0.0	44.1

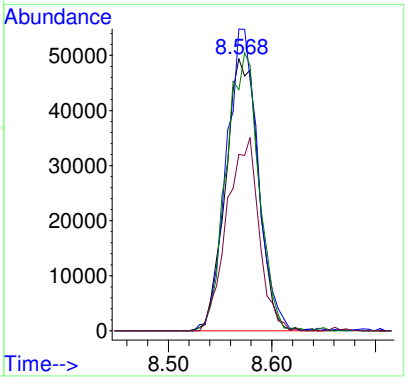


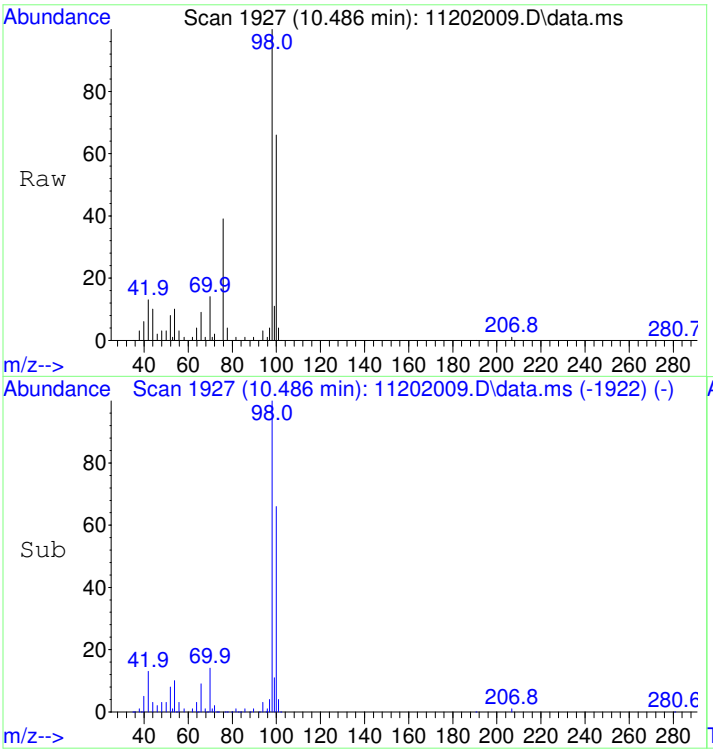


#35
Trichloroethene SCAN
Concen: 7617.46 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion:130 Resp: 109373

Ion	Ratio	Lower	Upper
130	100		
95	106.0	60.5	120.5
132	101.4	59.6	119.6
97	69.2	28.2	88.2

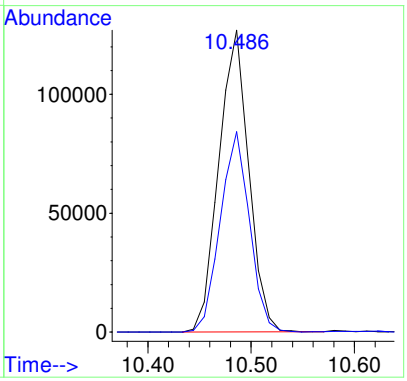


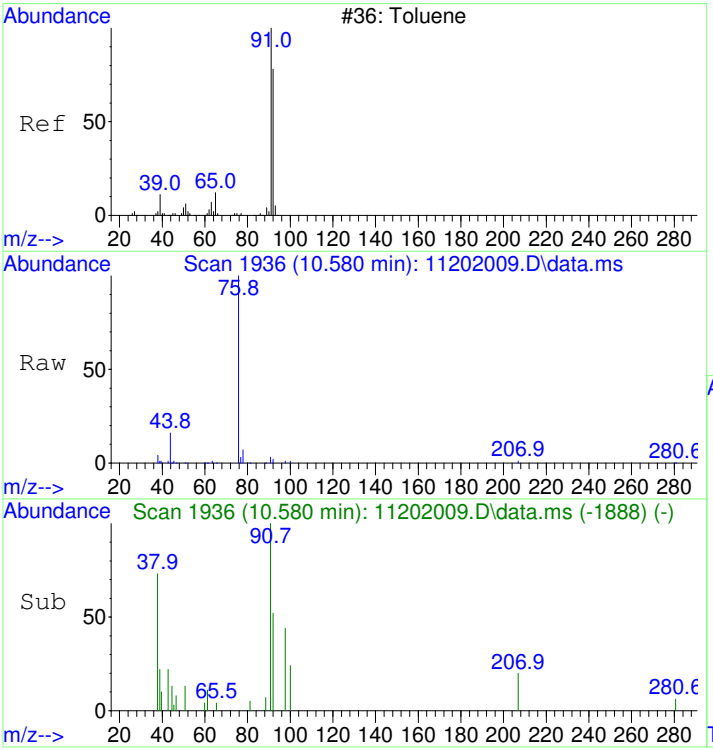


#36
Toluene-d8 SCAN
Concen: 4428.41 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 98 Resp: 255168

Ion	Ratio	Lower	Upper
98	100		
100	64.8	40.0	100.0

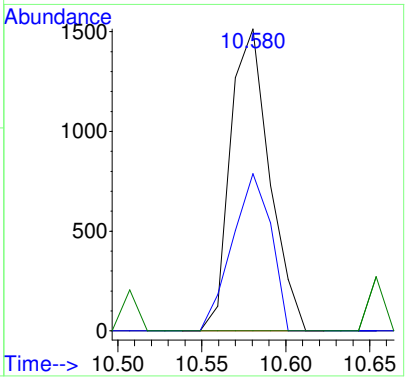


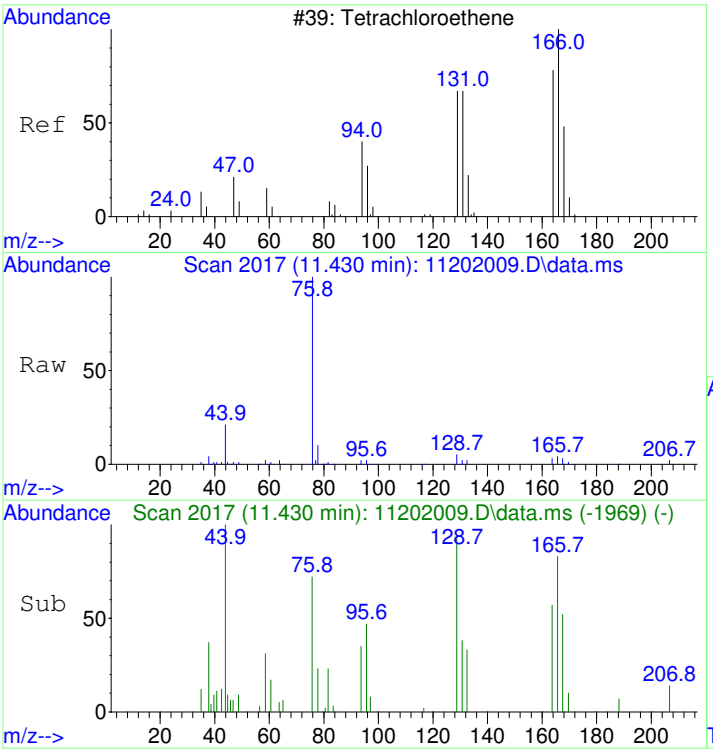


#37
Toluene SCAN
Concen: 33.24 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 91 Resp: 2453

Ion	Ratio	Lower	Upper
91	100		
92	51.7	28.3	88.3
65	0.0	0.0	41.0

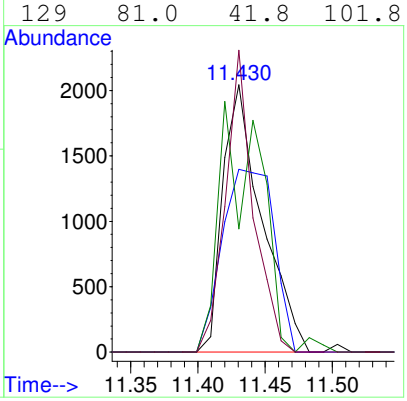




#39
Tetrachloroethene SCAN
Concen: 233.69 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion:166 Resp: 4143

Ion	Ratio	Lower	Upper
166	100		
164	90.9	50.9	110.9
131	97.1	38.7	98.7
129	81.0	41.8	101.8



Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202009.D
Acq On : 20 Nov 2020 12:50 pm
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-22RE1
Misc : 10X DL (180-20)
ALS Vial : 9
Multiplier: 10

Quant Time: Nov 23 14:42:46 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	604408	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	503278	4253.56	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 85.07%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	2562	106.15	ug/L	77
3] trans-1,2-Dichloroethene	4.362	61	3736	133.98	ug/L	90
4] 1,1-Dichloroethane	5.079	63	2302	66.32	ug/L	74
5] cis-1,2-Dichloroethene	6.081	61	52320	1427.94	ug/L	99
6] Chloroform	6.652	83	49603	1322.66	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	2300	56.47	ug/L	99
9] Benzene	7.503	78	2150	20.94	ug/L #	1
11] Trichloroethene	8.569	130	241401	7807.45	ug/L	95
13] Toluene	10.582	91	3183	21.10	ug/L	100
15] Tetrachloroethene	11.432	166	12208	279.65	ug/L	99
25) 2-Fluorotoluene SCAN	10.969	109	296054	5024.79	ug/L	98
26) 1,1-Dichloroethene SCAN	3.111	61	386	30.85	ug/L	77
27) trans-1,2-Dichloroethe...	4.368	61	1607	103.79	ug/L #	51
29) cis-1,2-Dichloroethene...	6.080	61	31621	1647.05	ug/L	89
30) Chloroform SCAN	6.650	83	26161	1256.32	ug/L	94
33) Benzene SCAN	7.877	78	1237	23.68	ug/L	97
35) Trichloroethene SCAN	8.568	130	109373	7617.46	ug/L	85
36) Toluene-d8 SCAN	10.486	98	255168	4428.41	ug/L	94
37) Toluene SCAN	10.580	91	2453	33.24	ug/L #	88
39) Tetrachloroethene SCAN	11.430	166	4143	233.69	ug/L	81

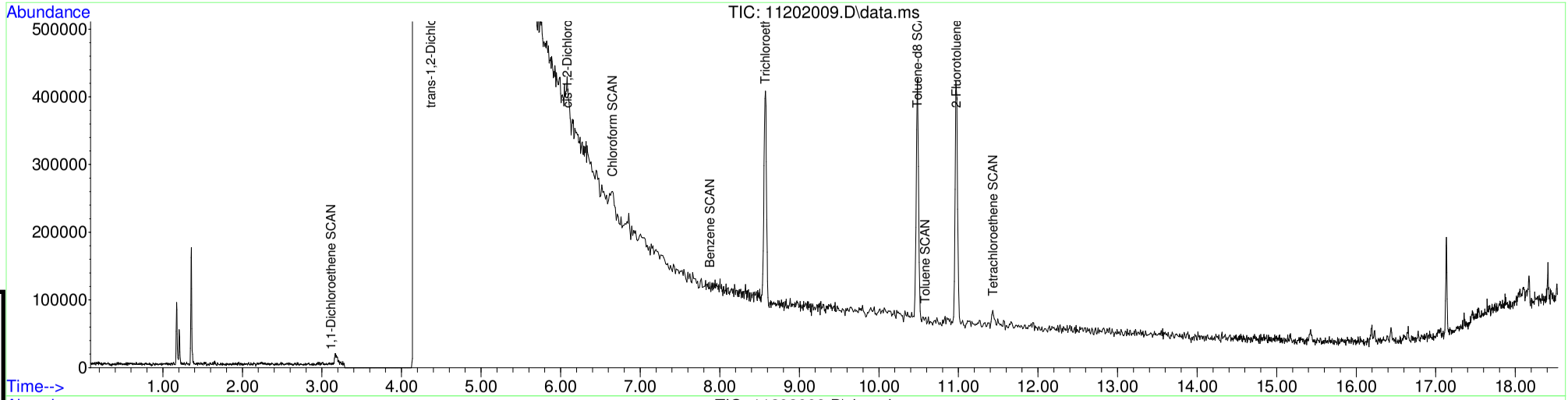
(#) = qualifier out of range (m) = manual integration (+) = signals summed

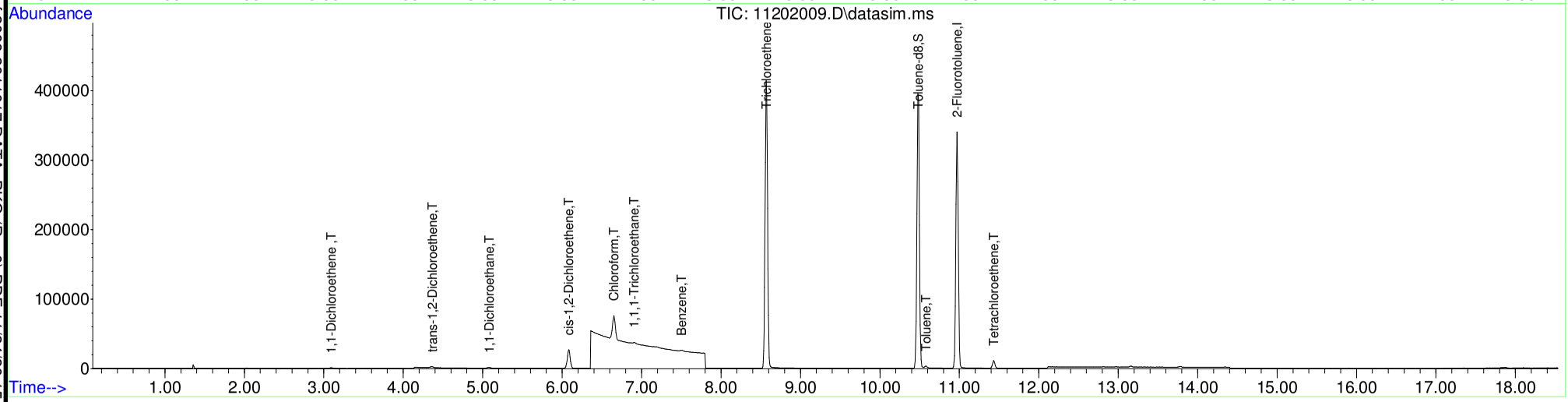
Quantitation Report (Not Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202009.D
Acq On : 20 Nov 2020 12:50 pm
Instrument: AG5975C
Operator : ZAR
Sample : 2011017-22RE1
Misc : 10X DL (180-20)
ALS Vial : 9
Multiplier: 10

Quant Time: Nov 23 14:42:46 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M





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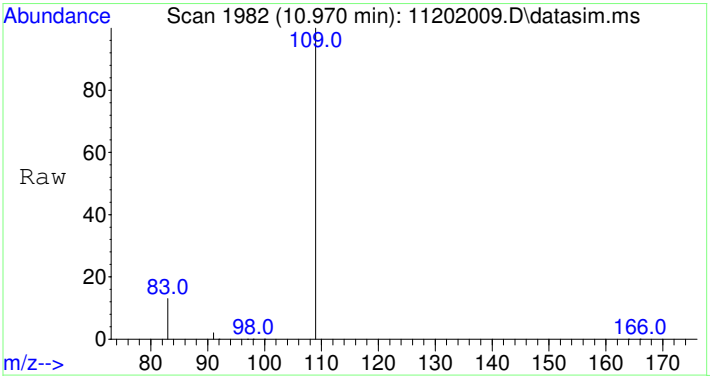
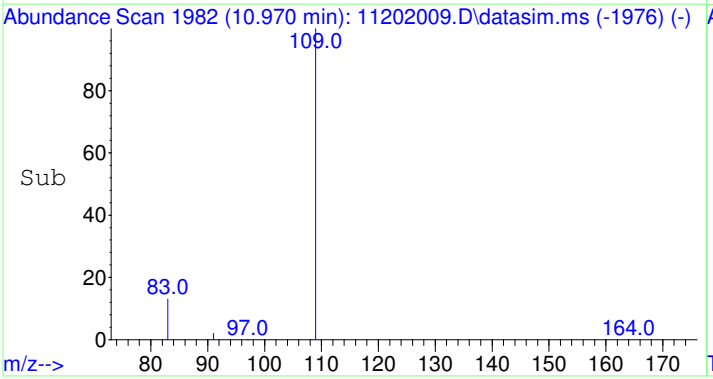
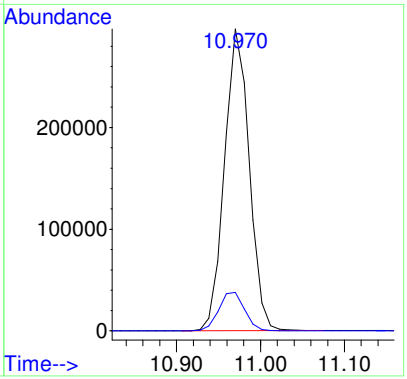


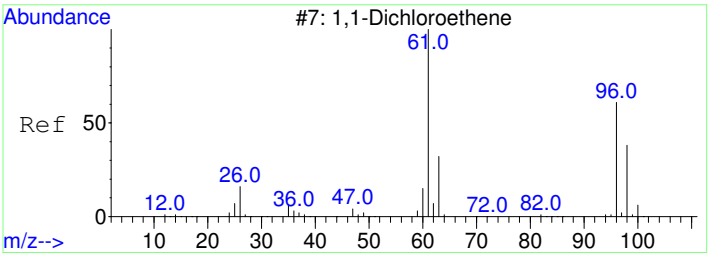
#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion:109 Resp: 604408

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3





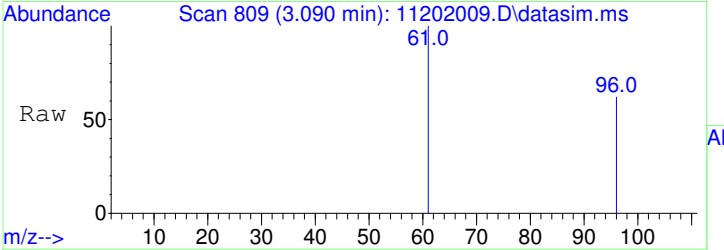


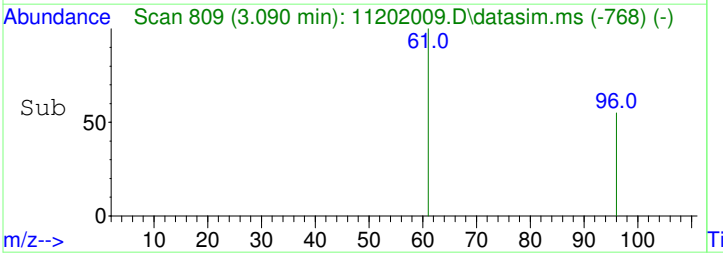
#2
1,1-Dichloroethene
Concen: 106.15 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

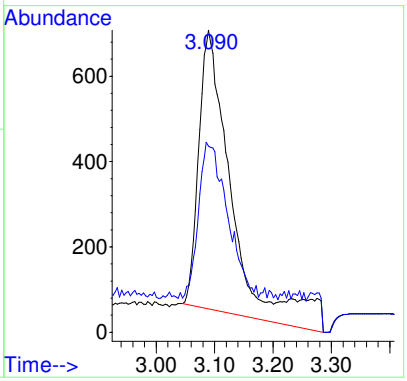
Tgt Ion: 61 Resp: 2562

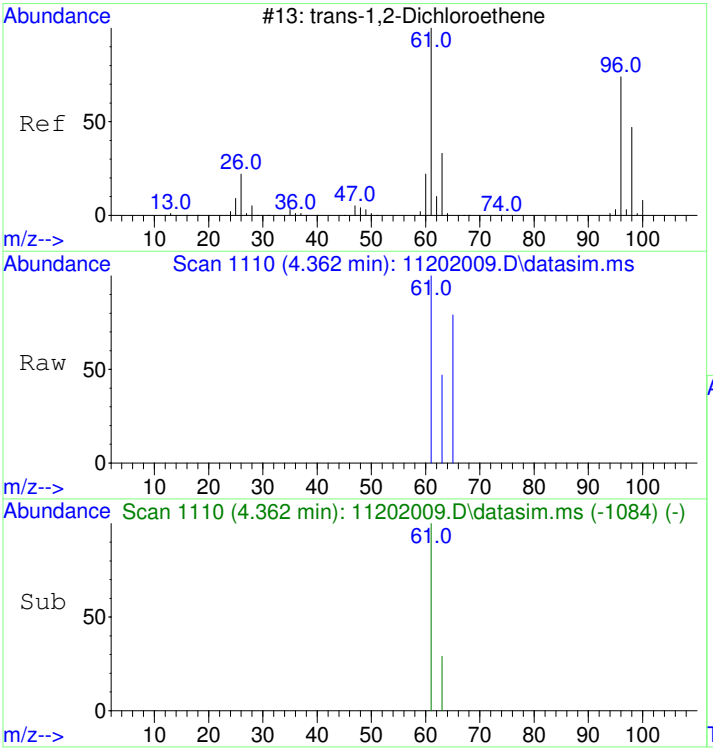
Ion	Ratio	Lower	Upper
61	100		
96	48.8	37.2	97.2

Before MI:
IMPROPER
BASELINE





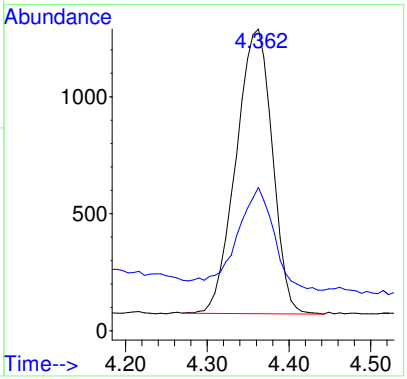


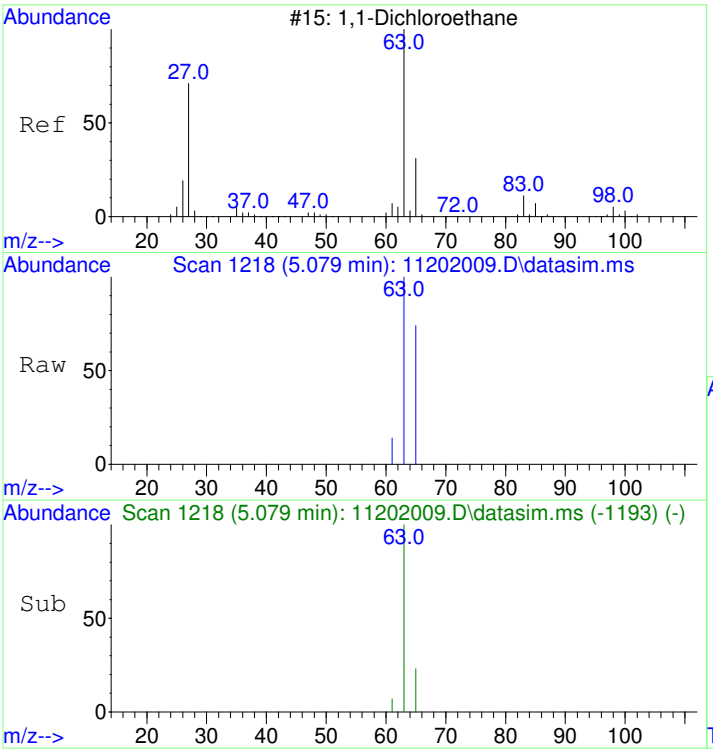


#3
trans-1,2-Dichloroethene
Concen: 133.98 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. 0.020 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 61 Resp: 3736

Ion	Ratio	Lower	Upper
61	100		
63	38.1	2.4	62.4

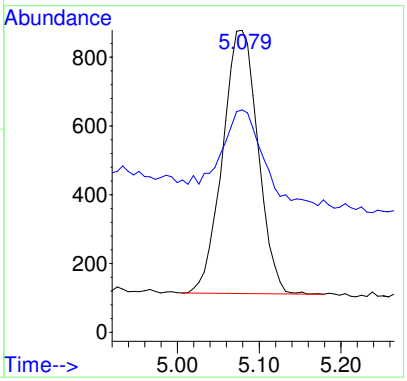


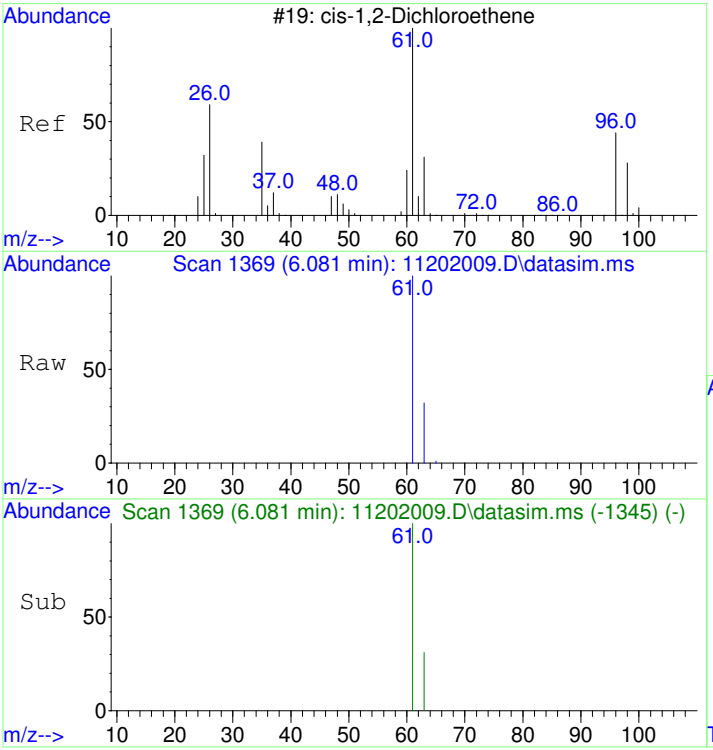


#4
1,1-Dichloroethane
Concen: 66.32 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 63 Resp: 2302

Ion	Ratio	Lower	Upper
63	100		
65	46.4	1.8	61.8

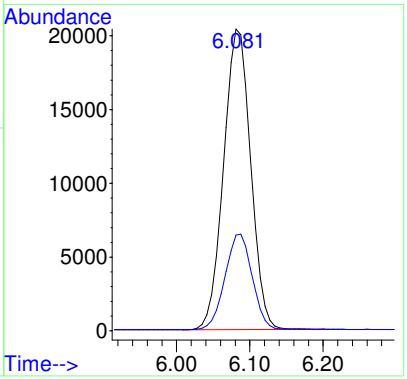


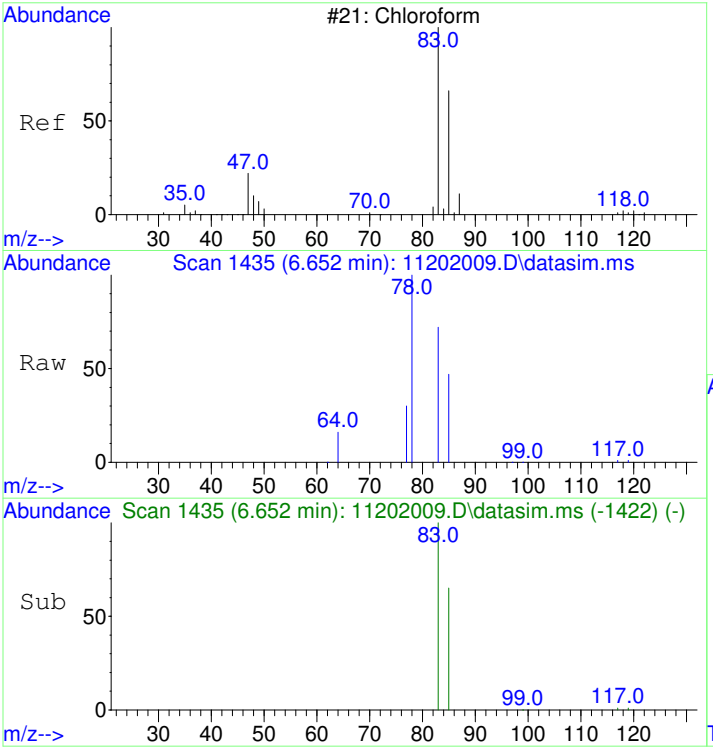


#5
cis-1,2-Dichloroethene
Concen: 1427.94 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 61 Resp: 52320

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

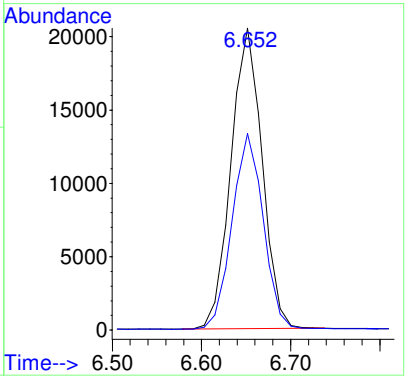


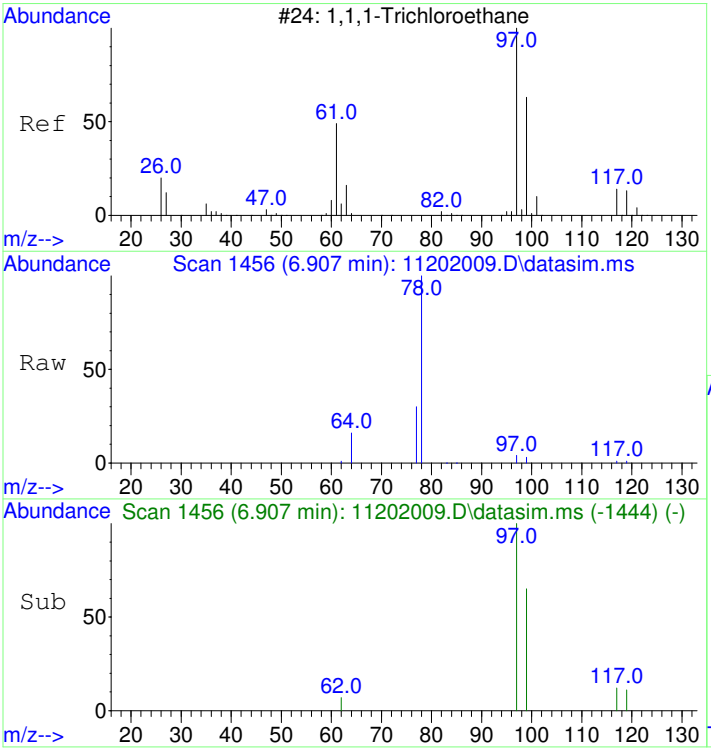


#6
Chloroform
Concen: 1322.66 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 83 Resp: 49603

Ion	Ratio	Lower	Upper
83	100		
85	64.7	35.1	95.1

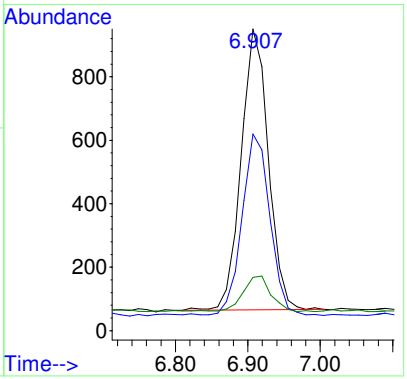


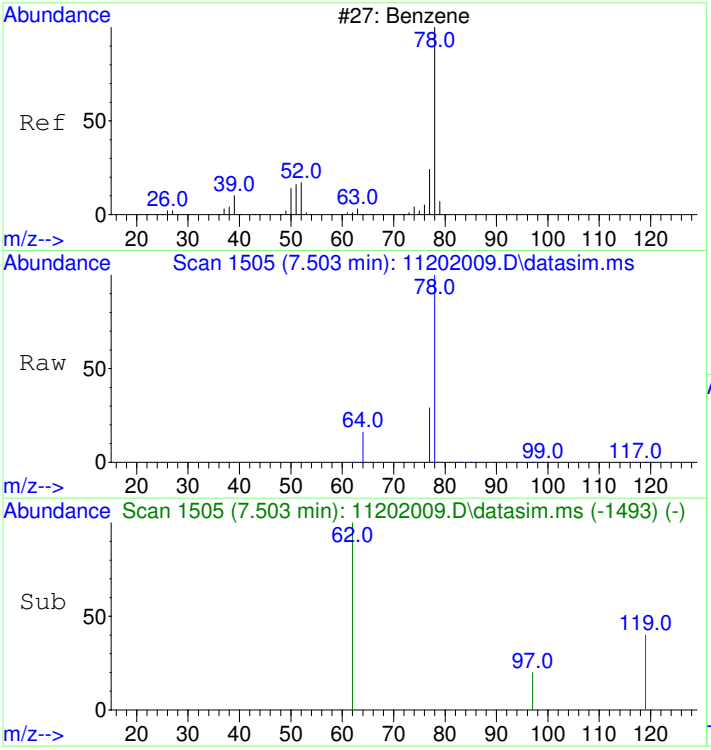


#7
1,1,1-Trichloroethane
Concen: 56.47 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 97 Resp: 2300

Ion	Ratio	Lower	Upper
97	100		
99	65.8	34.6	94.6
117	13.1	0.0	43.2

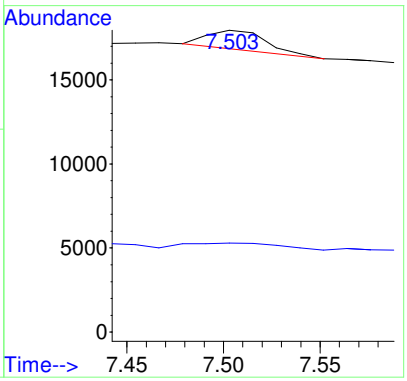


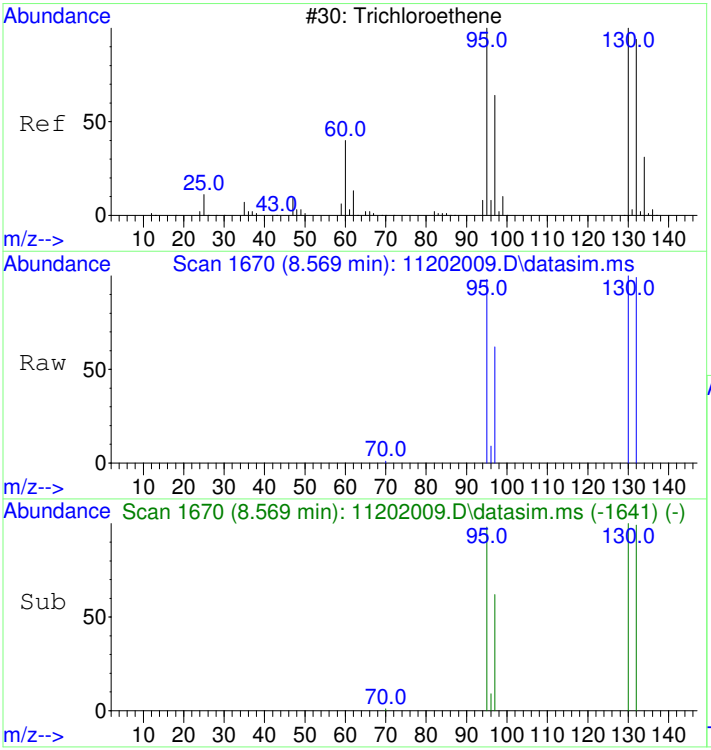


#9
Benzene
Concen: 20.94 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 78 Resp: 2150

Ion	Ratio	Lower	Upper
78	100		
77	88.3	0.0	53.2#

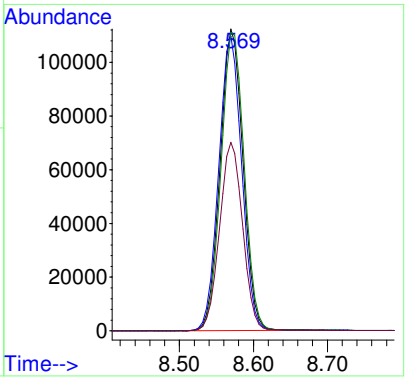


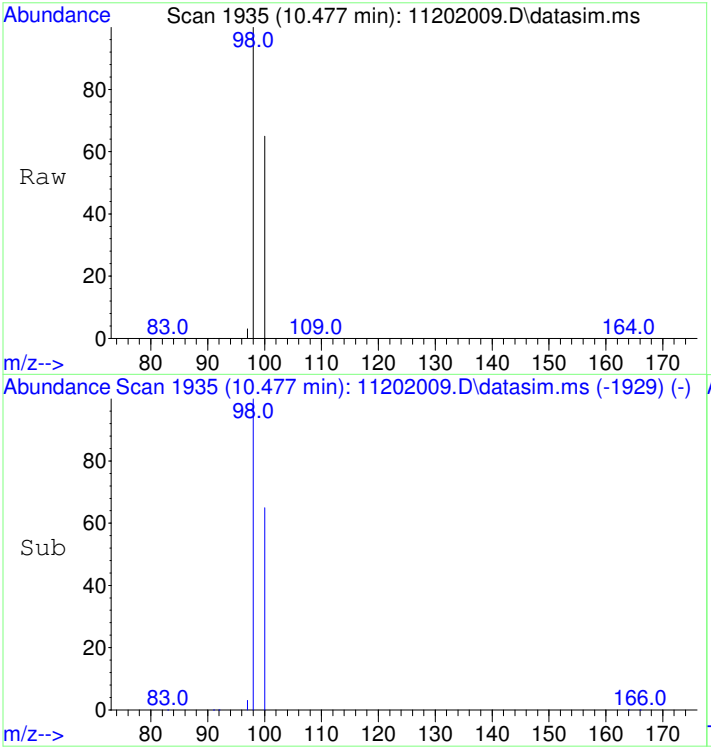


#11
Trichloroethene
Concen: 7807.45 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion:130 Resp: 241401

Ion	Ratio	Lower	Upper
130	100		
95	97.6	60.7	120.7
132	99.8	76.0	116.0
97	62.5	38.6	78.6

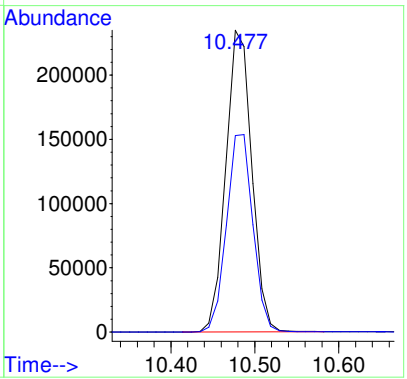


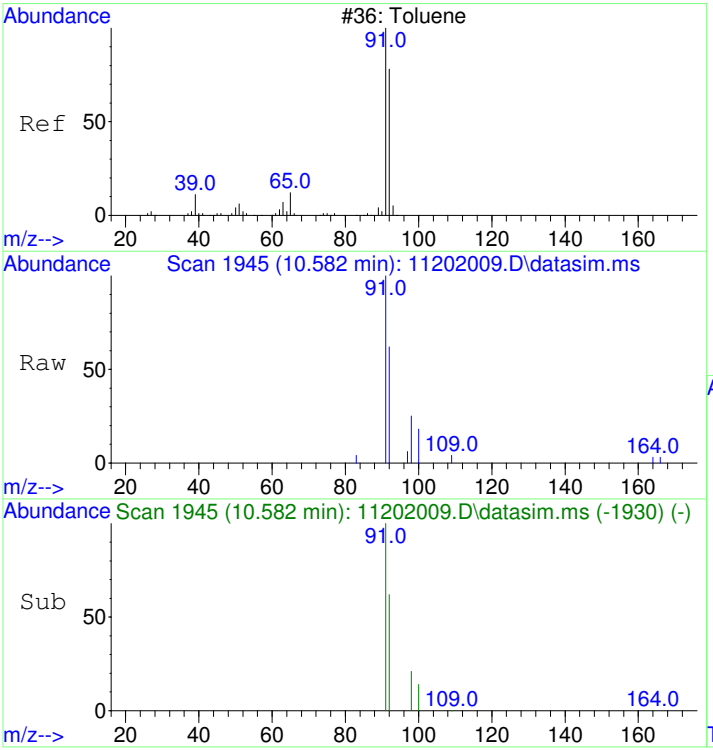


#12
Toluene-d8
Concen: 4253.56 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 98 Resp: 503278

Ion	Ratio	Lower	Upper
98	100		
100	66.5	37.1	97.1

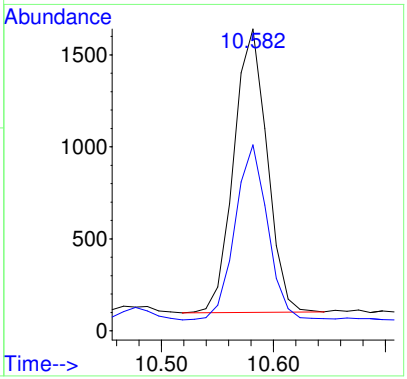


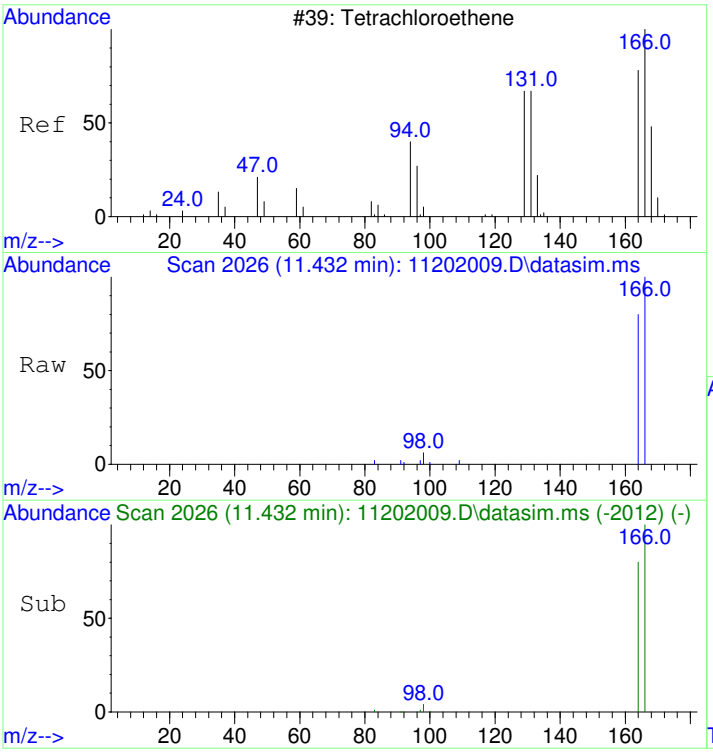


#13
Toluene
Concen: 21.10 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 91 Resp: 3183

Ion	Ratio	Lower	Upper
91	100		
92	59.8	29.9	89.9

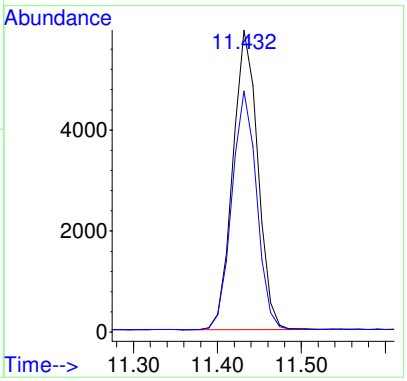


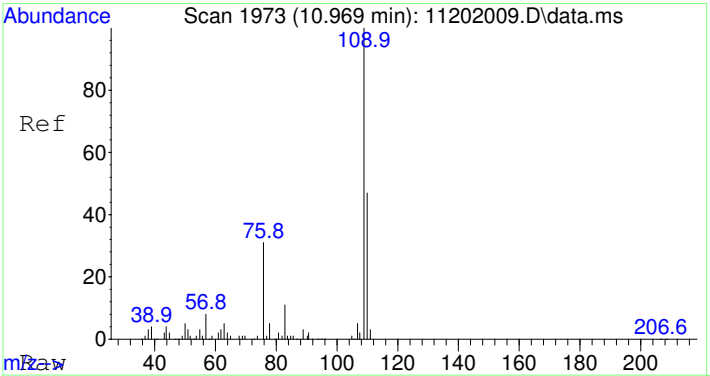


#15
Tetrachloroethene
Concen: 279.65 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion:166 Resp: 12208

Ion	Ratio	Lower	Upper
166	100		
164	79.0	47.8	107.8

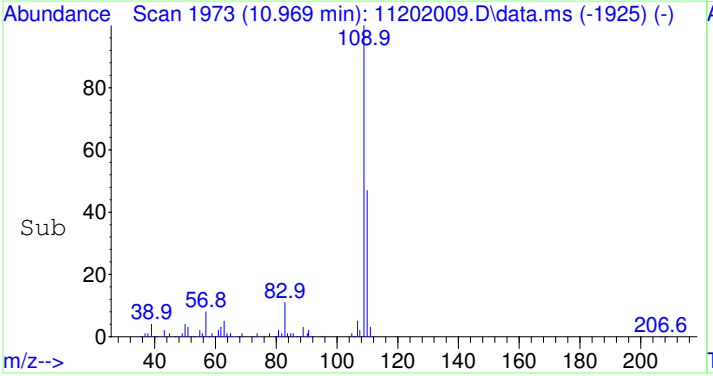


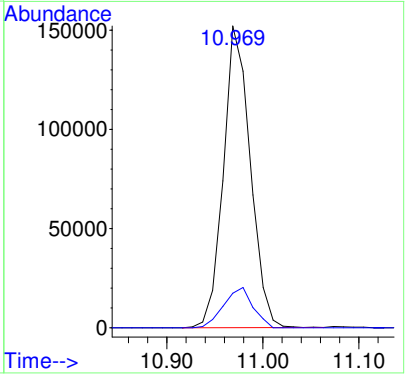


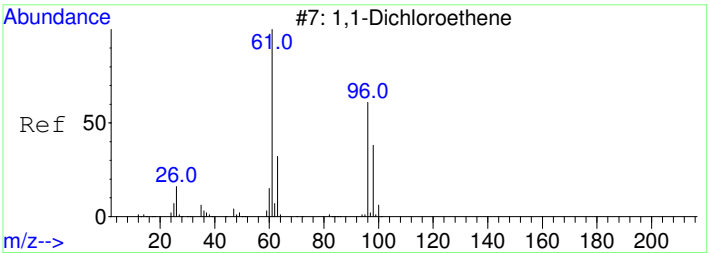
#25
2-Fluorotoluene SCAN
Concen: 5024.79 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion:109 Resp: 296054

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	43.8



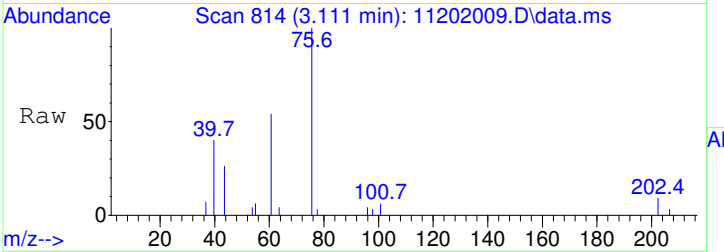


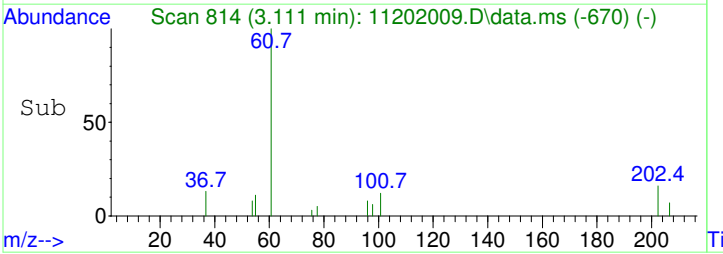


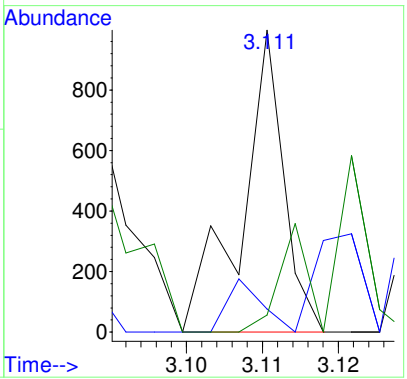
#26
1,1-Dichloroethene SCAN
Concen: 30.85 ug/L
RT: 3.111 min Scan# 814
Delta R.T. 0.033 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

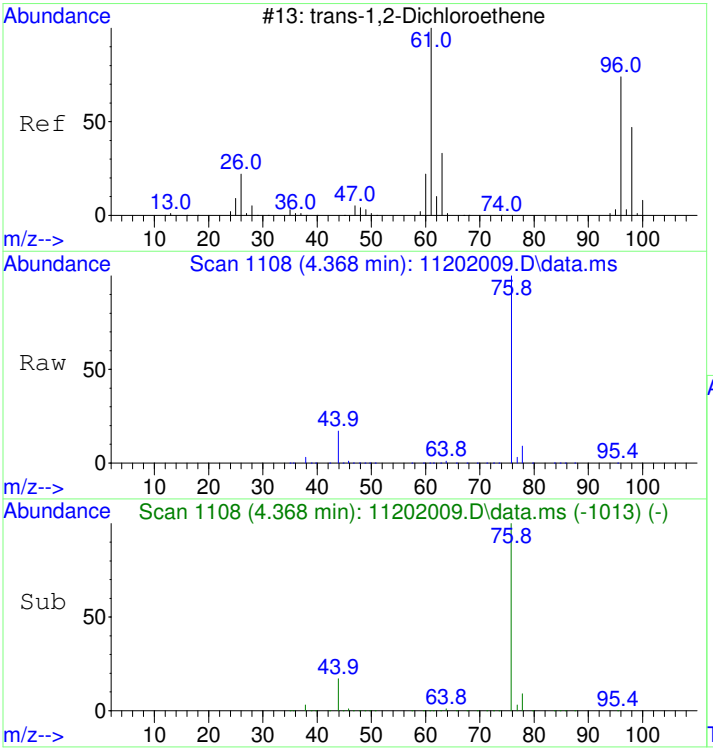
Tgt Ion: 61 Resp: 386

Ion	Ratio	Lower	Upper
61	100		
96	50.8	33.1	93.1
98	61.9	11.2	71.2





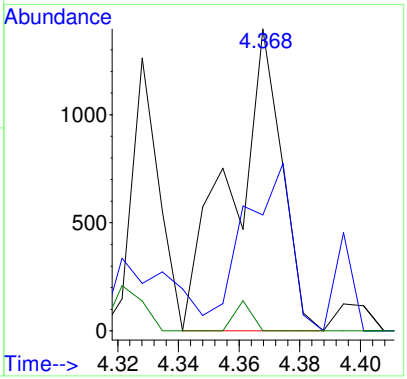


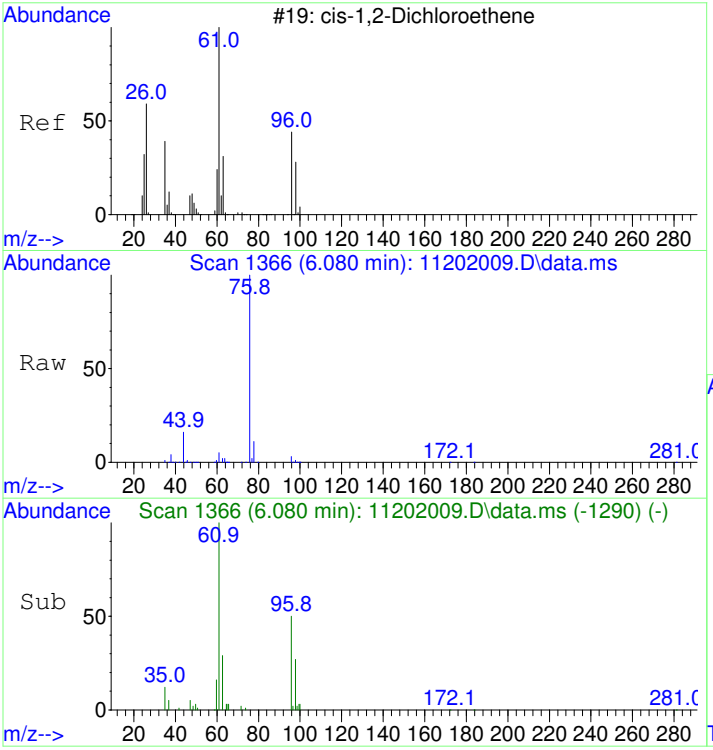


#27
trans-1,2-Dichloroethene SCAN
Concen: 103.79 ug/L
RT: 4.368 min Scan# 1108
Delta R.T. 0.020 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 61 Resp: 1607

Ion	Ratio	Lower	Upper
61	100		
96	46.5	49.0	109.0#
98	3.5	20.5	80.5#

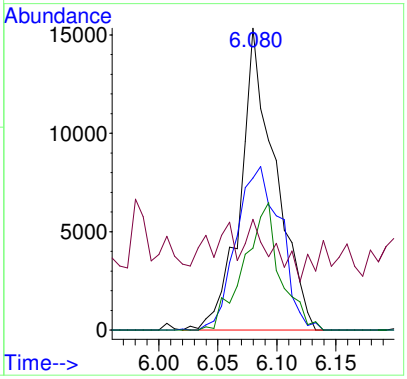


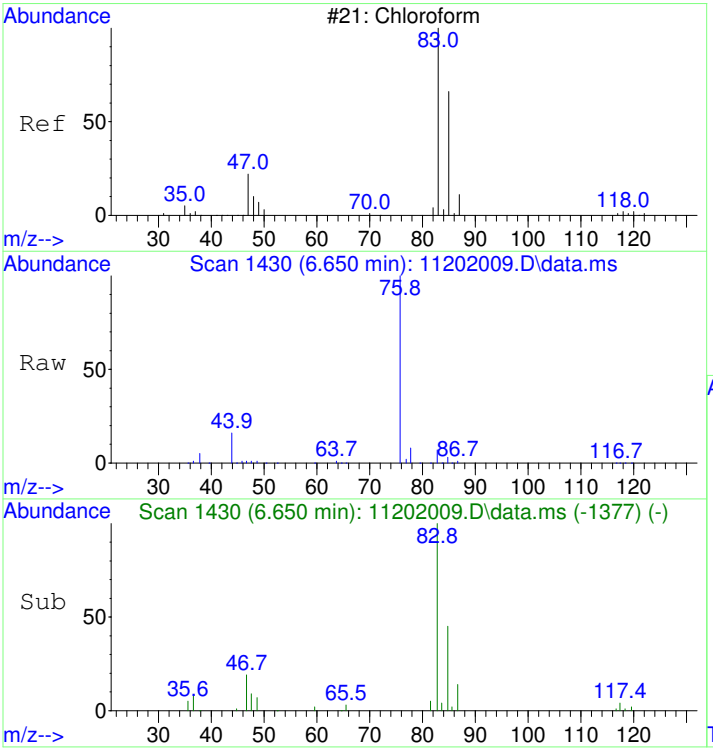


#29
cis-1,2-Dichloroethene SCAN
Concen: 1647.05 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.007 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 61 Resp: 31621

Ion	Ratio	Lower	Upper
61	100		
96	68.6	39.9	99.9
98	43.8	13.5	73.5
64	10.6	4.5	64.5

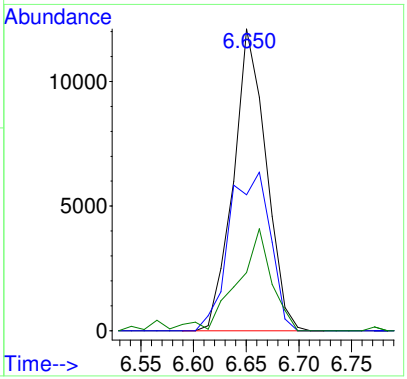


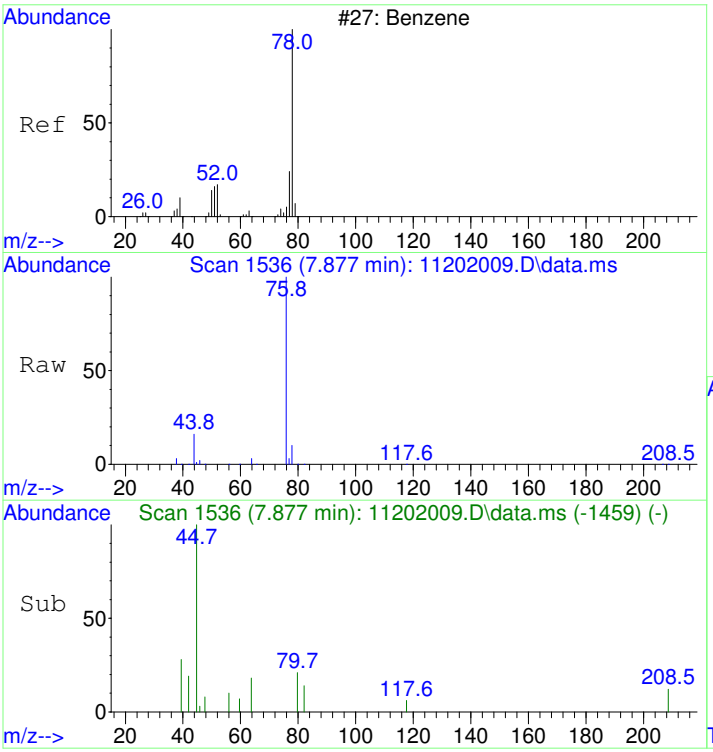


#30
Chloroform SCAN
Concen: 1256.32 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 83 Resp: 26161

Ion	Ratio	Lower	Upper
83	100		
85	66.6	34.6	94.6
47	31.6	0.0	53.4

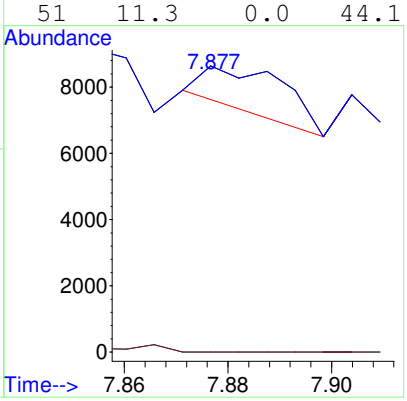


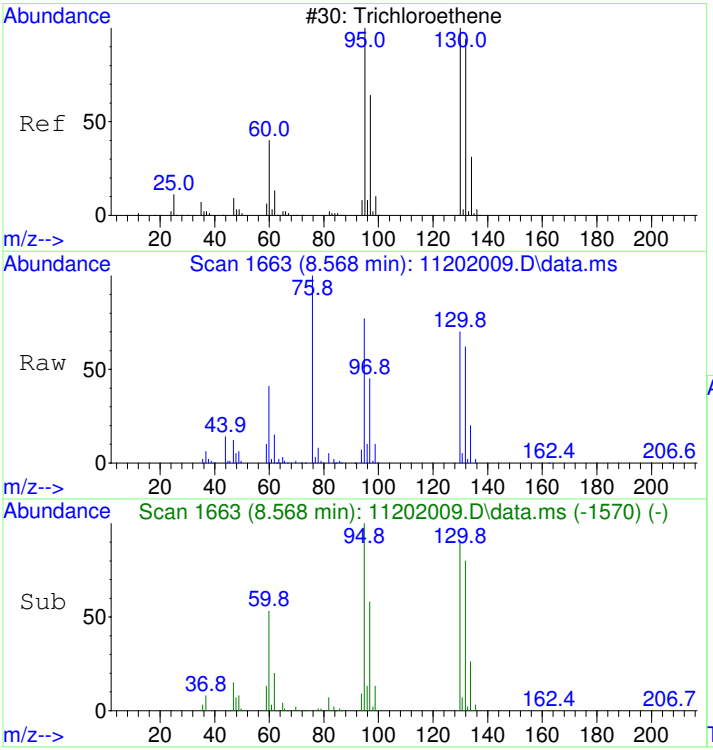


#33
Benzene SCAN
Concen: 23.68 ug/L
RT: 7.877 min Scan# 1536
Delta R.T. 0.375 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 78 Resp: 1237

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	11.3	0.0	47.9
51	11.3	0.0	44.1

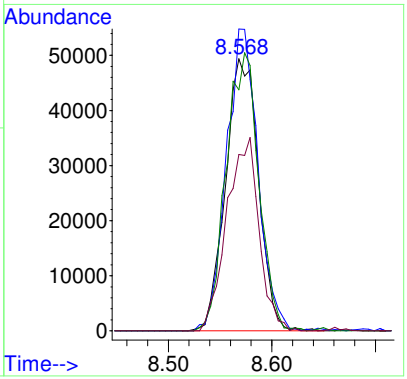


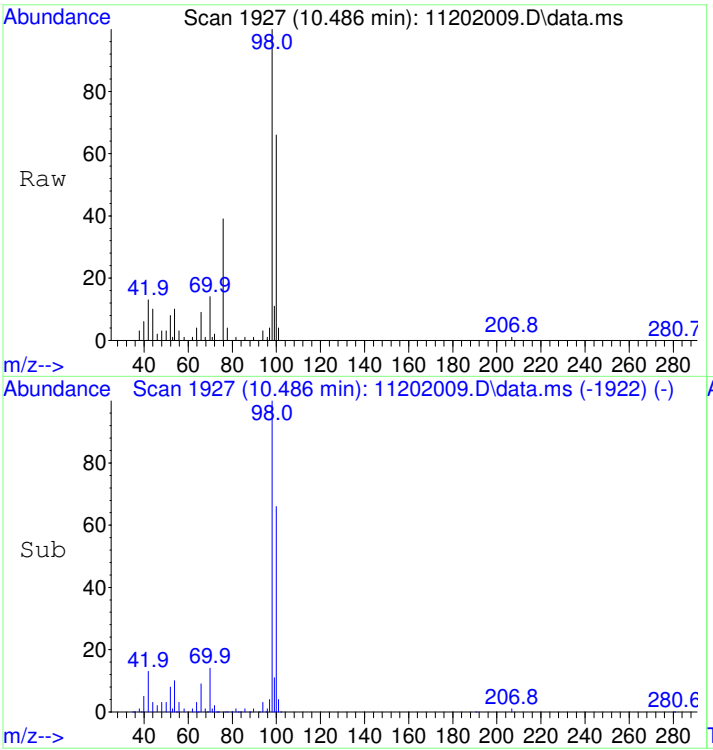


#35
Trichloroethene SCAN
Concen: 7617.46 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.005 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion:130 Resp: 109373

Ion	Ratio	Lower	Upper
130	100		
95	106.0	60.5	120.5
132	101.4	59.6	119.6
97	69.2	28.2	88.2

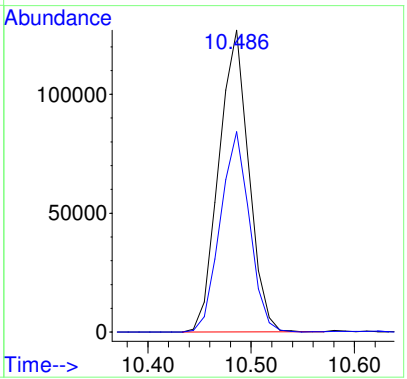


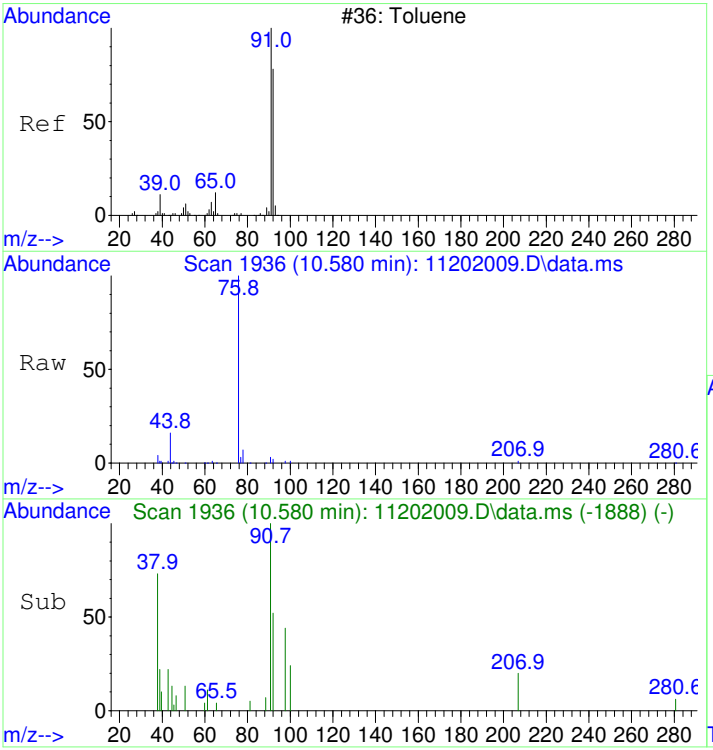


#36
Toluene-d8 SCAN
Concen: 4428.41 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 98 Resp: 255168

Ion	Ratio	Lower	Upper
98	100		
100	64.8	40.0	100.0

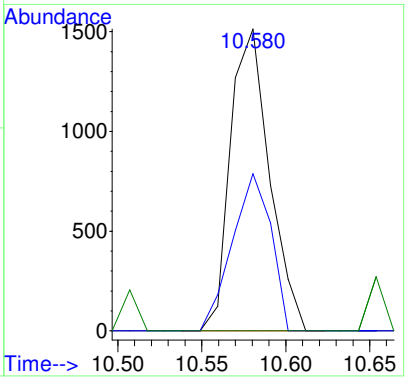


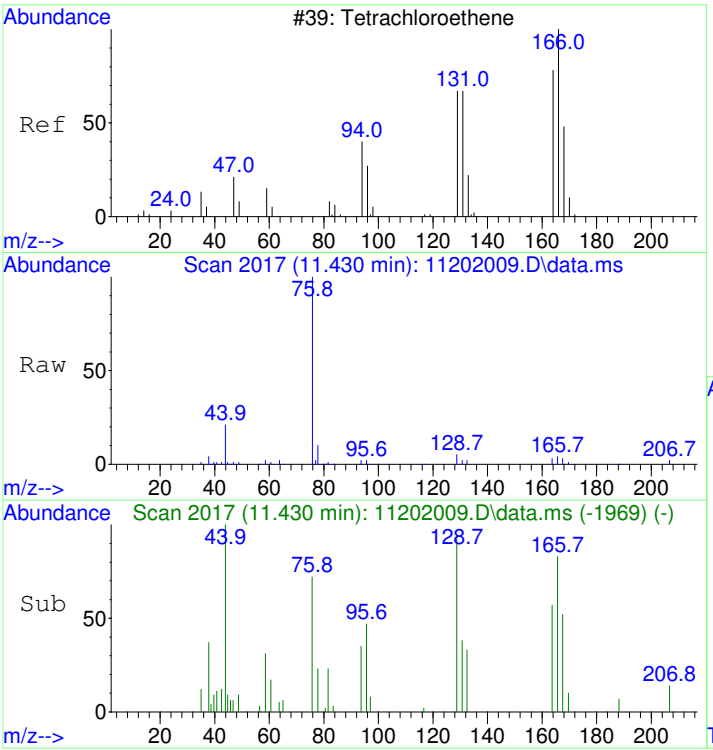


#37
Toluene SCAN
Concen: 33.24 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion: 91 Resp: 2453

Ion	Ratio	Lower	Upper
91	100		
92	51.7	28.3	88.3
65	0.0	0.0	41.0

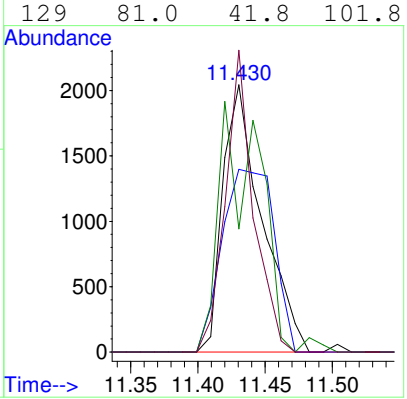




#39
Tetrachloroethene SCAN
Concen: 233.69 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11202009.D
Acq: 20 Nov 2020 12:50 pm

Tgt Ion:166 Resp: 4143

Ion	Ratio	Lower	Upper
166	100		
164	90.9	50.9	110.9
131	97.1	38.7	98.7
129	81.0	41.8	101.8



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 20316C
Client: California Site Cleanup Section 3
Project: MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID: AG5975CV
Calibration: 2008017
Sequence: S20K066

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
B20K062-MRL1	1,1-Dichloroethene	0.131	0.097	75	ug/m³ Air	50 - 150
	trans-1,2-Dichloroethene	0.160	0.127	80	ug/m³ Air	50 - 150
	1,1-Dichloroethane	0.157	0.131	83	ug/m³ Air	50 - 150
	cis-1,2-Dichloroethene	0.160	0.130	81	ug/m³ Air	50 - 150
	Chloroform	0.132	0.114	86	ug/m³ Air	50 - 150
	Trichloroethene	0.144	0.139	96	ug/m³ Air	50 - 150
	Tetrachloroethene	0.168	0.158	94	ug/m³ Air	50 - 150
	Toluene-d8	992	875	88	ug/m³ Air	86 - 118

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172008.D
Acq On : 17 Nov 2020 10:40
InstName : AG5975C
Operator : TD
Sample : B20K062-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 17 10:58:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

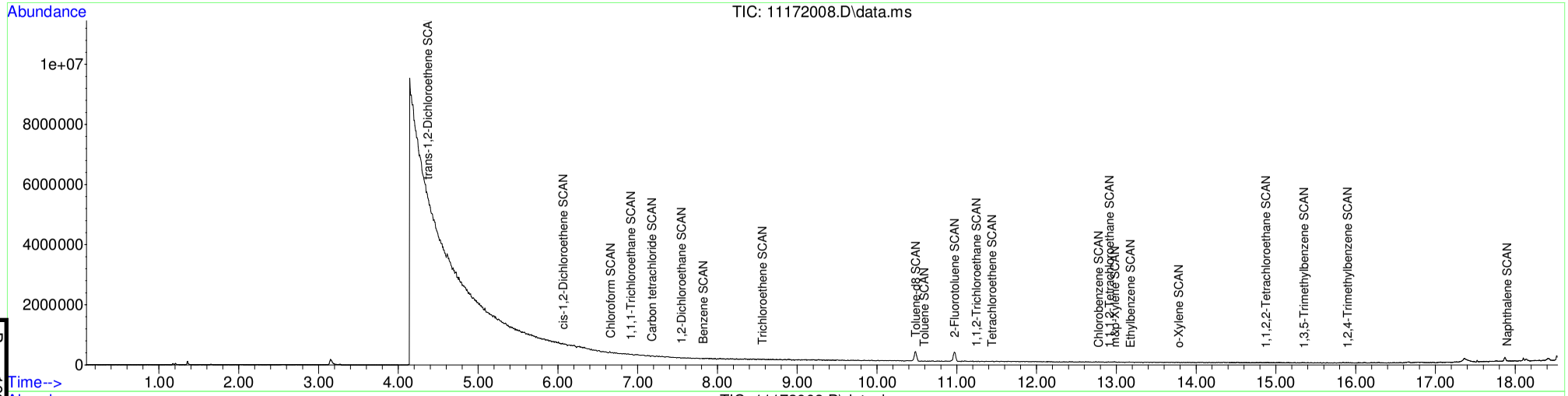
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	542657	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	468484	4410.05	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.20%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	1420	65.53	ug/L	79
3] trans-1,2-Dichloroethene	4.336	61	996	39.78	ug/L #	45
4] 1,1-Dichloroethane	5.059	63	1293	41.49	ug/L	46
5] cis-1,2-Dichloroethene	6.074	61	1337	40.64	ug/L	98
6] Chloroform	6.639	83	1450	43.06	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1549	42.36	ug/L	98
8] Carbon tetrachloride	7.175	117	1433	41.64	ug/L	100
9] Benzene	7.503	78	9310	100.98	ug/L #	28
10] 1,2-Dichloroethane	7.540	62	1407	42.75	ug/L #	1
11] Trichloroethene	8.564	130	1338	48.20	ug/L	94
13] Toluene	10.582	91	6794	50.16	ug/L	98
14] 1,1,2-Trichloroethane	11.232	97	1379	46.73	ug/L	97
15] Tetrachloroethene	11.432	166	1841	46.97	ug/L	95
16] Chlorobenzene	12.765	112	4776	49.25	ug/L	79
17] 1,1,1,2-Tetrachloroethane	12.916	131	1718	49.44	ug/L	97
18] Ethylbenzene	12.972	91	8848	53.67	ug/L	95
19] m&p-Xylene	13.162	91	13810	107.19	ug/L	93
20] o-Xylene	13.782	91	6602	47.96	ug/L	98
21] 1,1,2,2-Tetrachloroethane	14.880	83	2879	47.19	ug/L	97
22] 1,3,5-Trimethylbenzene	15.345	105	7546	51.50	ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	9137	60.04	ug/L	87
25) 2-Fluorotoluene SCAN	10.969	109	265508	5019.15	ug/L	98
27) trans-1,2-Dichloroethe...	4.361	61	1012	72.80	ug/L #	34
29) cis-1,2-Dichloroethene...	6.066	61	784	45.48	ug/L #	1
30) Chloroform SCAN	6.662	83	503	26.90	ug/L #	1
31) 1,1,1-Trichloroethane ...	6.918	97	1520	89.22	ug/L #	39
32) Carbon tetrachloride SCAN	7.173	117	986	55.48	ug/L #	15
33) Benzene SCAN	7.822	78	6435	137.18	ug/L	92
34) 1,2-Dichloroethane SCAN	7.550	62	507	29.27	ug/L #	1
35) Trichloroethene SCAN	8.563	130	326	25.29	ug/L #	1
36) Toluene-d8 SCAN	10.486	98	234139	4525.85	ug/L	98
37) Toluene SCAN	10.591	91	4700	70.94	ug/L	97
38) 1,1,2-Trichloroethane ...	11.242	97	400	26.90	ug/L #	42
39) Tetrachloroethene SCAN	11.441	166	582	36.56	ug/L #	76
40) Chlorobenzene SCAN	12.780	112	3297	72.83	ug/L #	25
41) 1,1,1,2-Tetrachloroeth...	12.915	131	823	49.12	ug/L #	79
42) Ethylbenzene SCAN	13.177	91	6696	55.48	ug/L	95
43) m&p-Xylene SCAN	12.978	91	4875	40.39	ug/L	75
44) o-Xylene SCAN	13.781	91	4073	63.04	ug/L	89
45) 1,1,2,2-Tetrachloroeth...	14.872	83	874	27.74	ug/L #	25
46) 1,3,5-Trimethylbenzene...	15.348	105	4677	68.69	ug/L	87
47) 1,2,4-Trimethylbenzene...	15.899	105	5611	80.53	ug/L	87
48) Naphthalene SCAN	17.901	128	2871	27.23	ug/L #	76

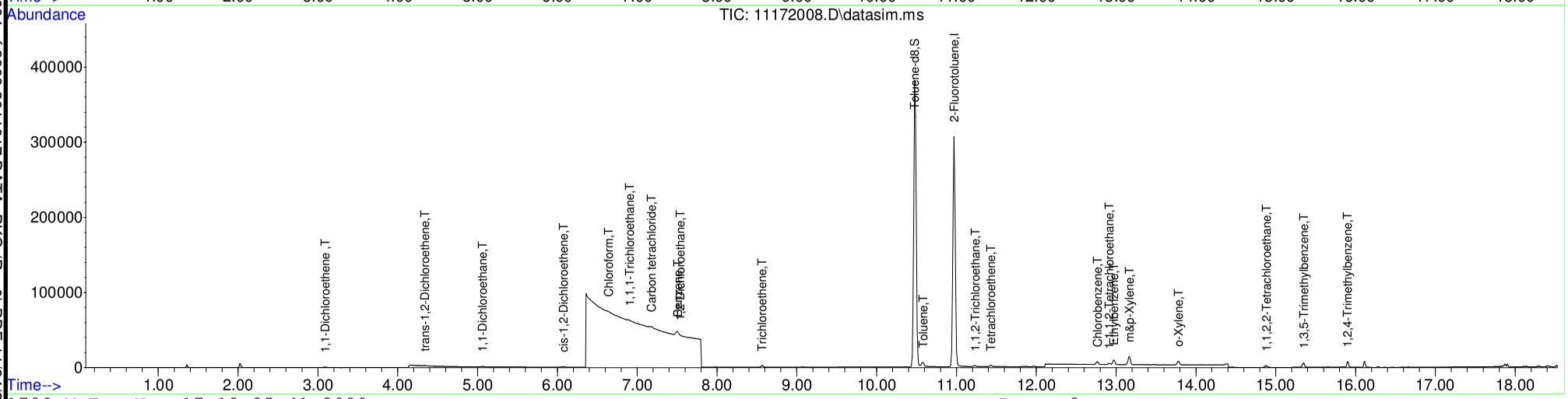
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172008.D
Acq On : 17 Nov 2020 10:40
InstName : AG5975C
Operator : TD
Sample : B20K062-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 17 10:58:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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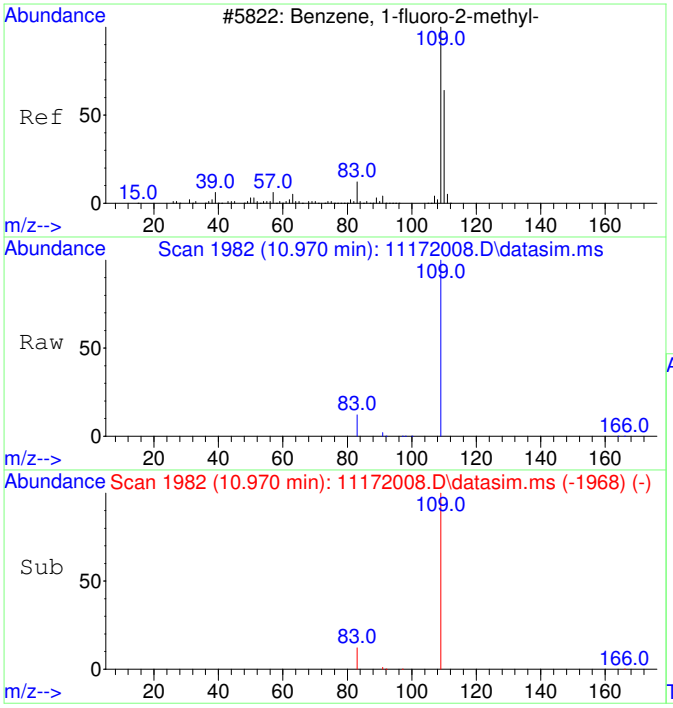
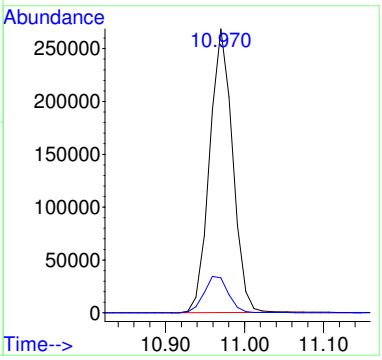
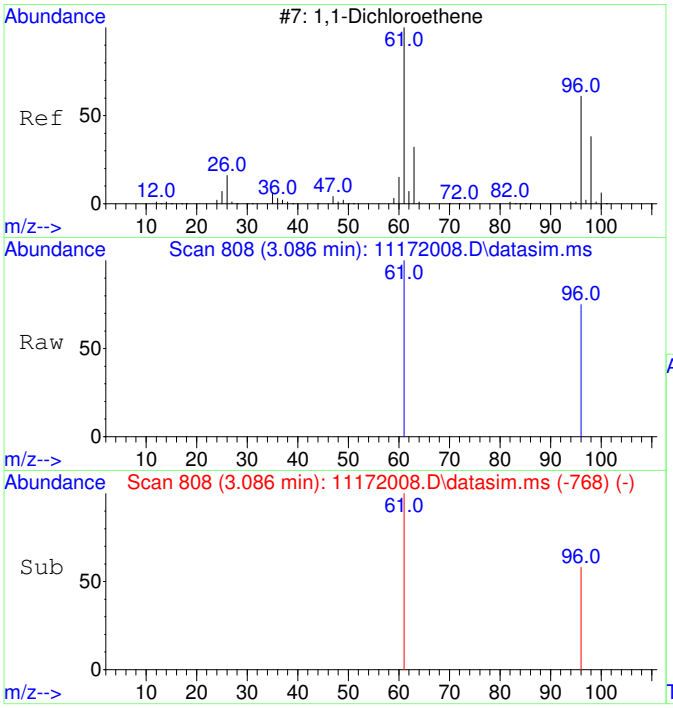


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:109 Resp: 542657

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

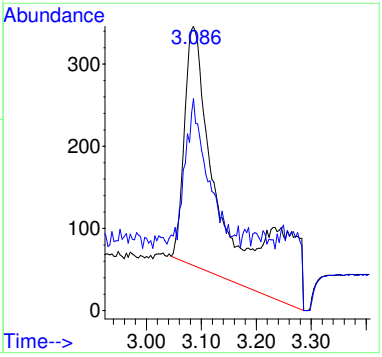




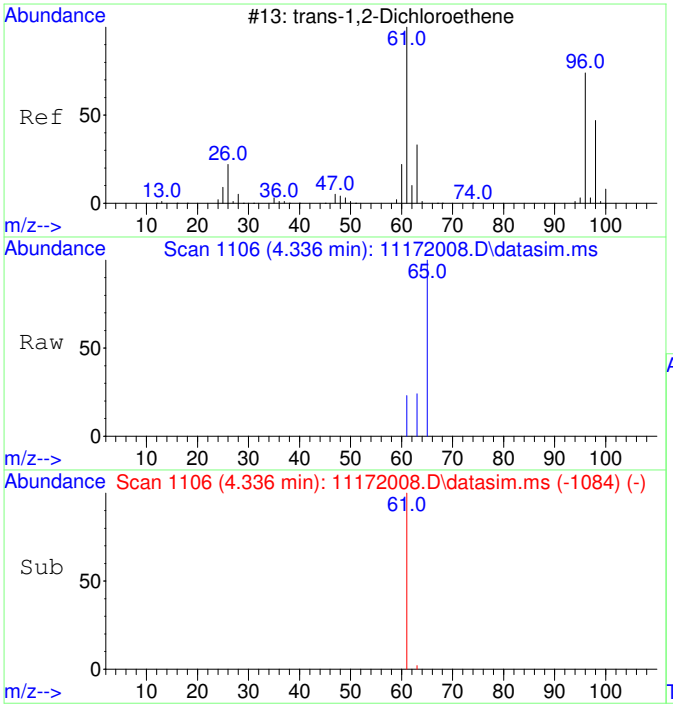
#2
1,1-Dichloroethene
Concen: 65.53 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 1420

Ion	Ratio	Lower	Upper
61	100		
96	50.7	37.2	97.2



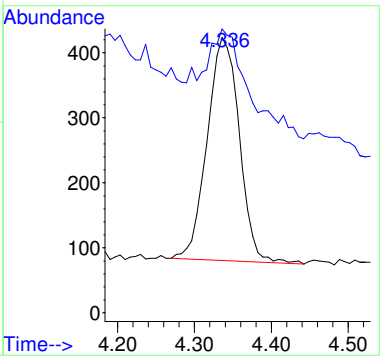
Before MI:
IMPROPER
BASELINE

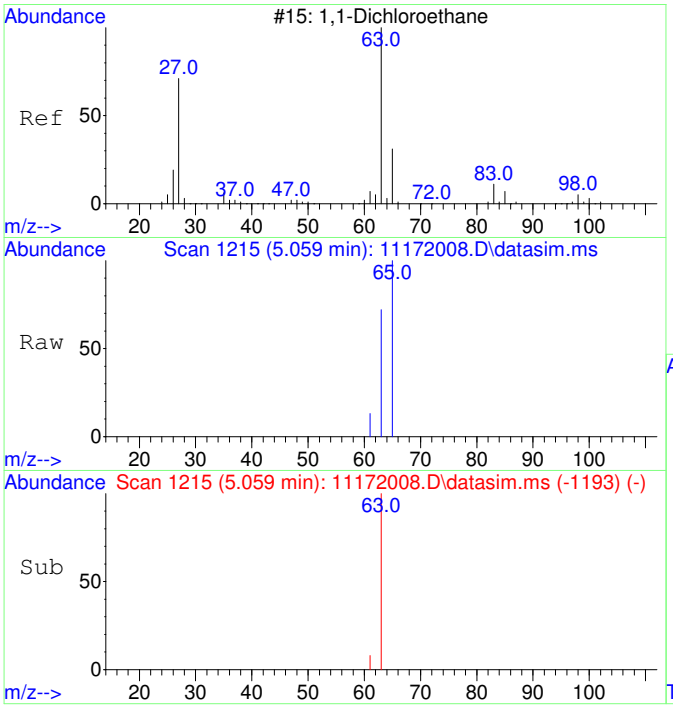


#3
trans-1,2-Dichloroethene
Concen: 39.78 ug/L
RT: 4.336 min Scan# 1106
Delta R.T. -0.007 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 996

Ion	Ratio	Lower	Upper
61	100		
63	63.3	2.4	62.4#

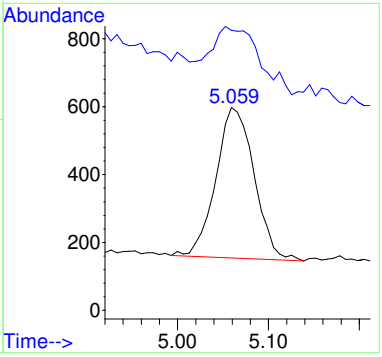


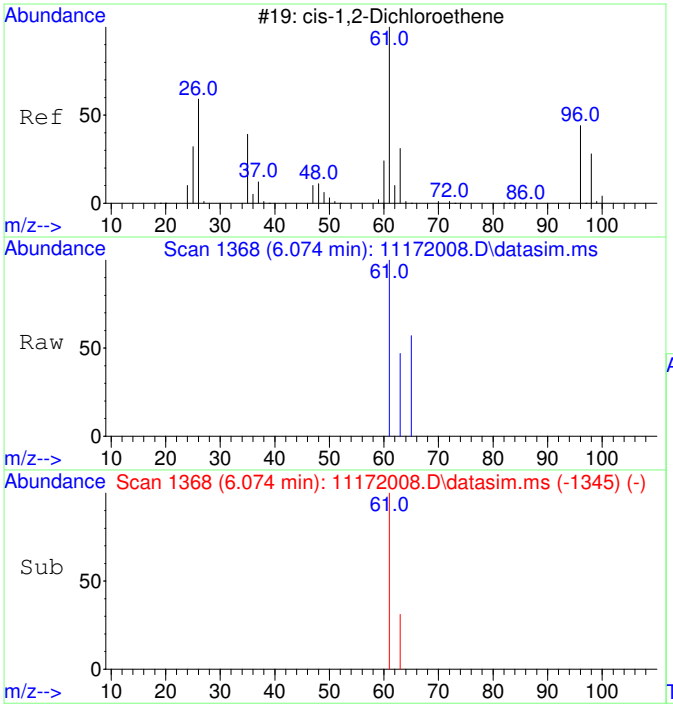


#4
1,1-Dichloroethane
Concen: 41.49 ug/L
RT: 5.059 min Scan# 1215
Delta R.T. -0.007 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 63 Resp: 1293

Ion	Ratio	Lower	Upper
63	100		
65	61.8	1.8	61.8

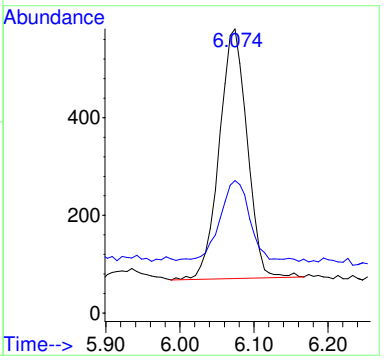


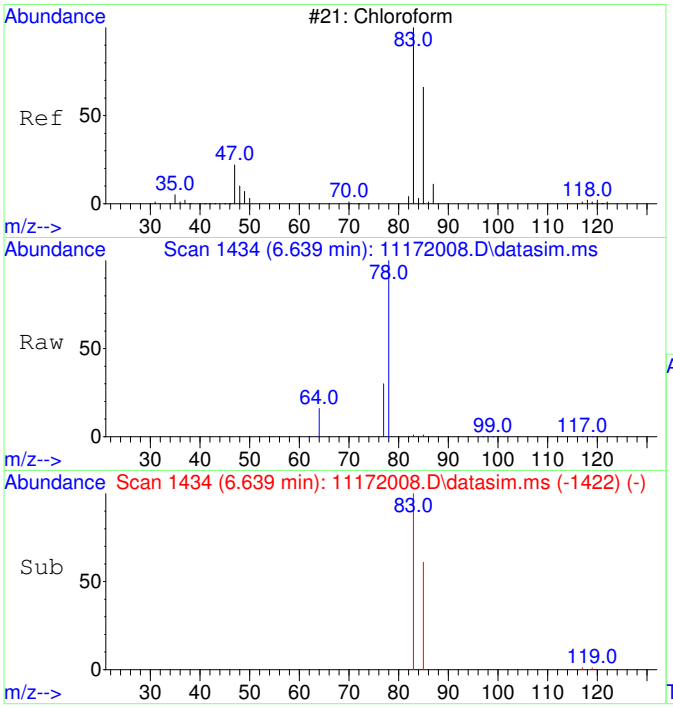


#5
cis-1,2-Dichloroethene
Concen: 40.64 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 1337

Ion	Ratio	Lower	Upper
61	100		
63	33.7	2.5	62.5

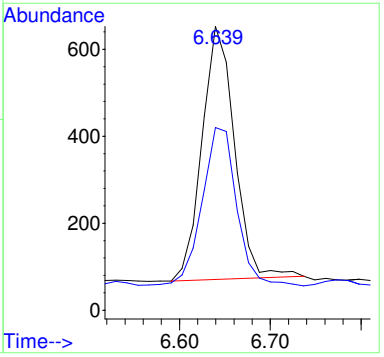


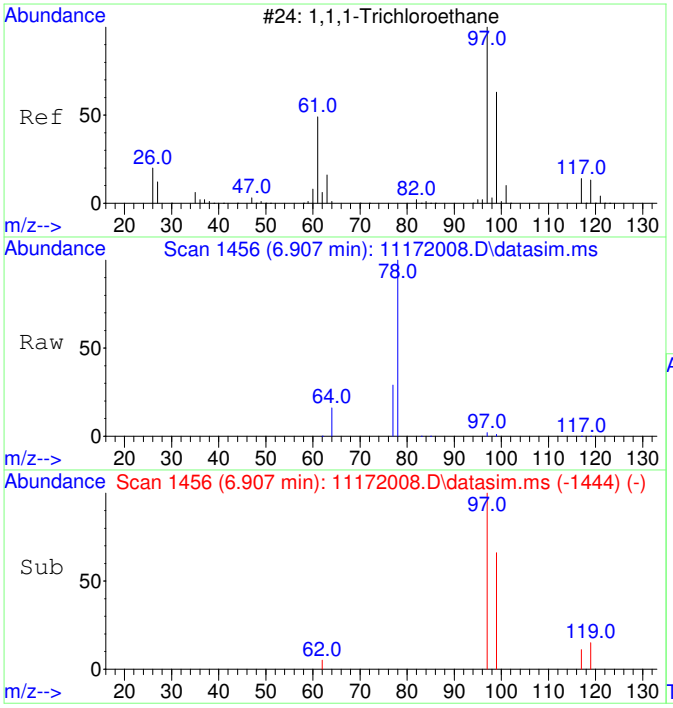


#6
Chloroform
Concen: 43.06 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 1450

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.1	95.1

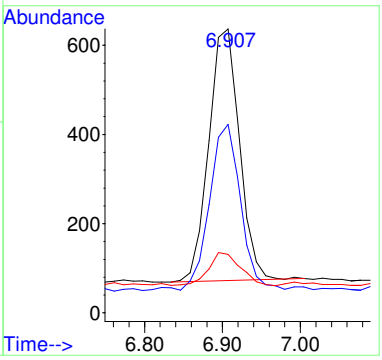


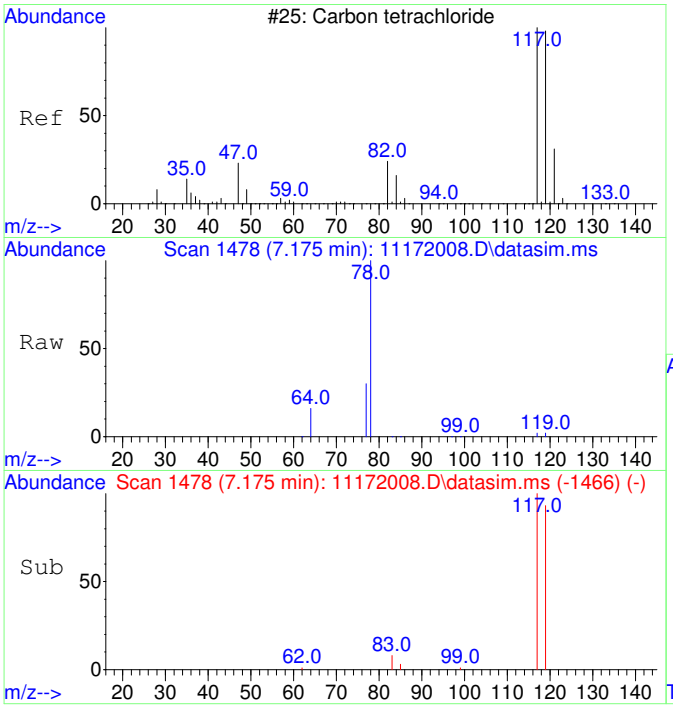


#7
1,1,1-Trichloroethane
Concen: 42.36 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 1549

Ion	Ratio	Lower	Upper
97	100		
99	66.4	34.6	94.6
117	13.8	0.0	43.2

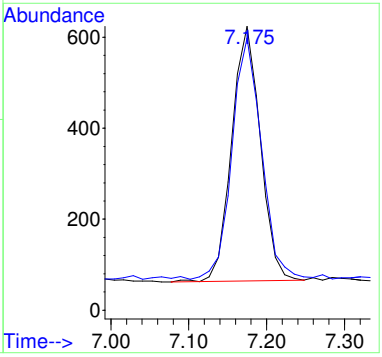


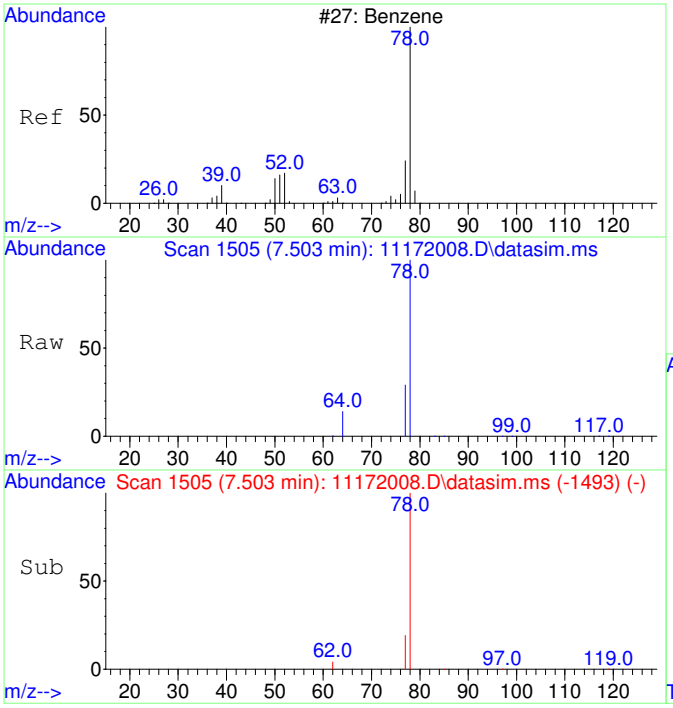


#8
Carbon tetrachloride
Concen: 41.64 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:117 Resp: 1433

Ion	Ratio	Lower	Upper
117	100		
119	96.2	66.4	126.4

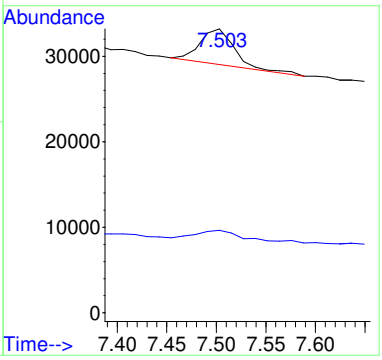


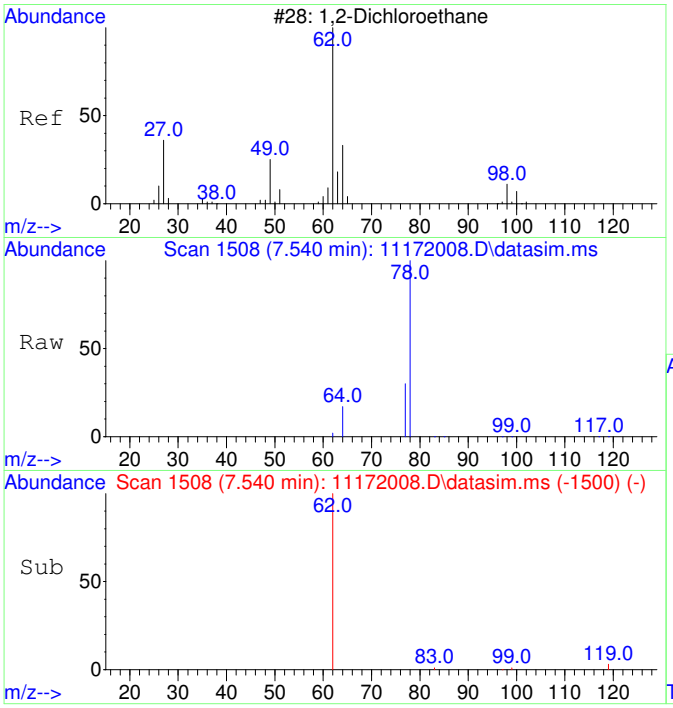


#9
Benzene
Concen: 100.98 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 78 Resp: 9310

Ion	Ratio	Lower	Upper
78	100		
77	58.3	0.0	53.2#

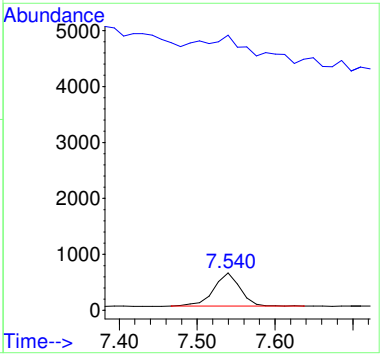


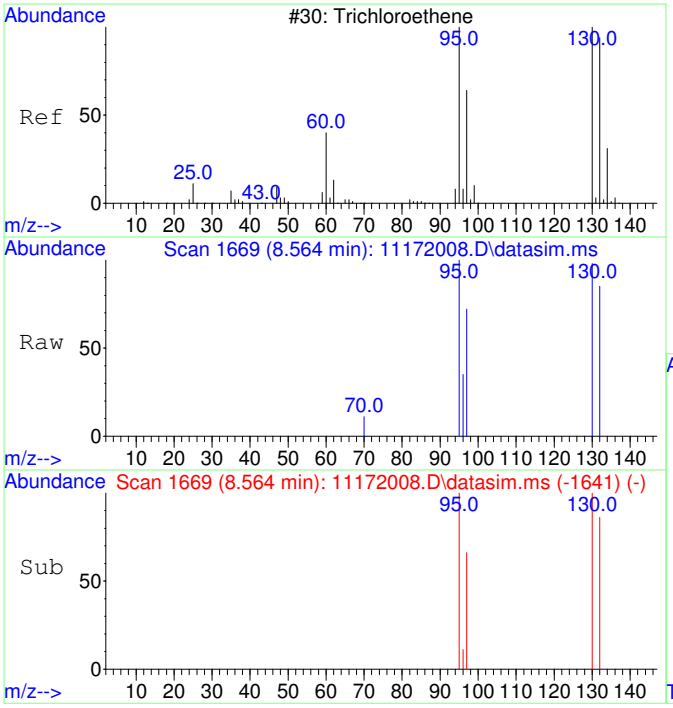


#10
1,2-Dichloroethane
Concen: 42.75 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 62 Resp: 1407

Ion	Ratio	Lower	Upper
62	100		
64	170.0	2.3	62.3#

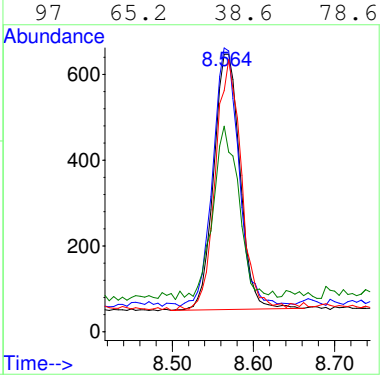


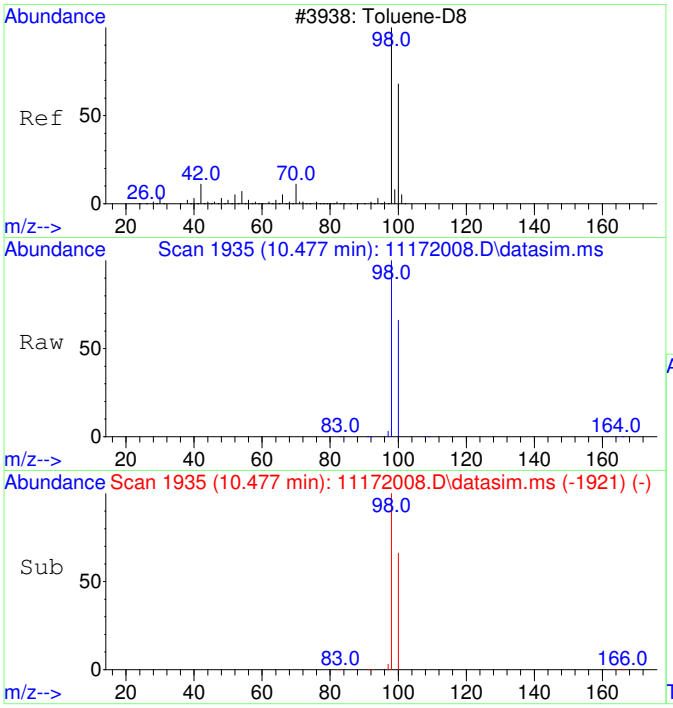


#11
Trichloroethene
Concen: 48.20 ug/L
RT: 8.564 min Scan# 1669
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:130 Resp: 1338

Ion	Ratio	Lower	Upper
130	100		
95	99.1	60.7	120.7
132	94.5	76.0	116.0
97	65.2	38.6	78.6

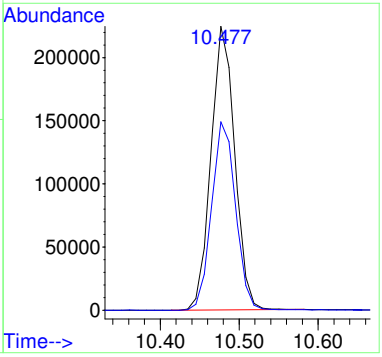


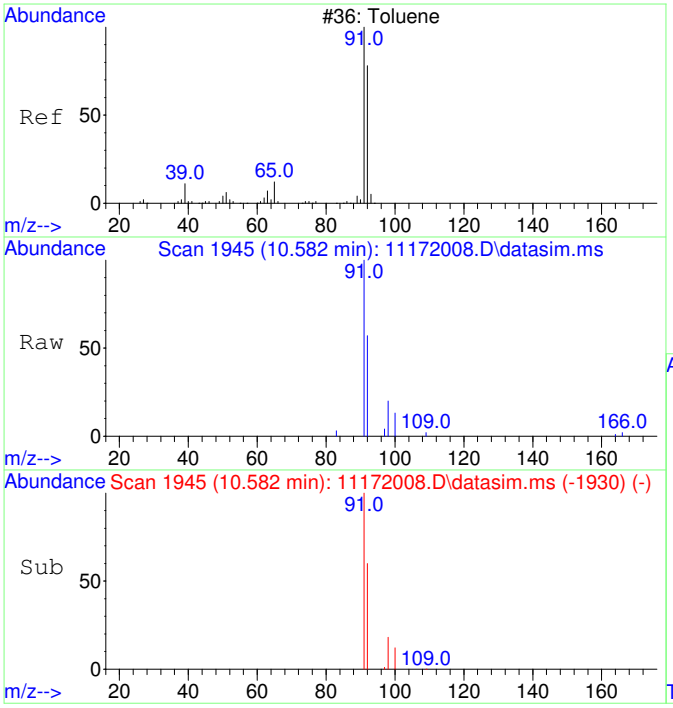


#12
Toluene-d8
Concen: 4410.05 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 98 Resp: 468484

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.1	97.1

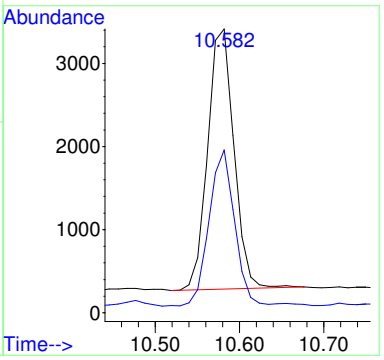


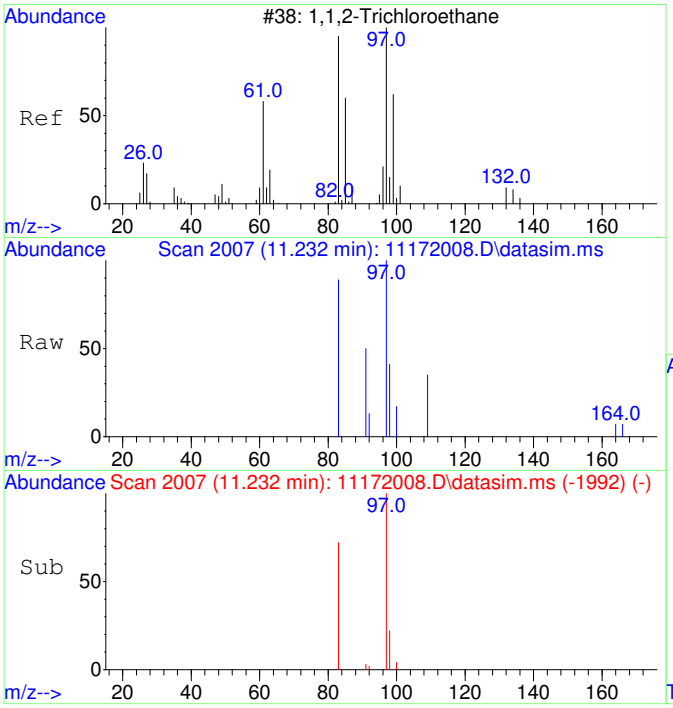


#13
Toluene
Concen: 50.16 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 6794

Ion	Ratio	Lower	Upper
91	100		
92	58.2	29.9	89.9

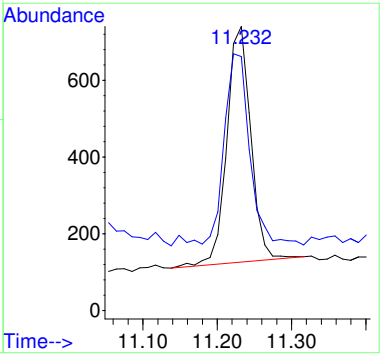


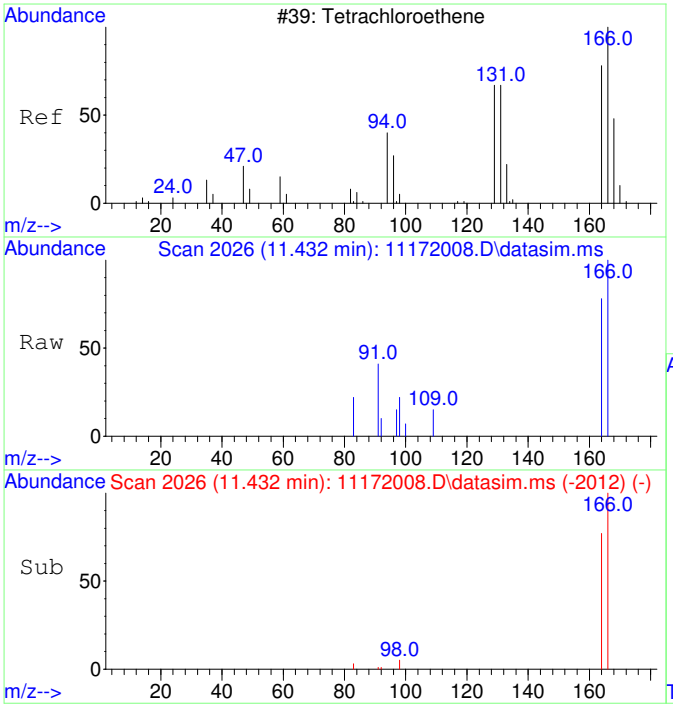


#14
1,1,2-Trichloroethane
Concen: 46.73 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 1379

Ion	Ratio	Lower	Upper
97	100		
83	84.3	51.2	111.2

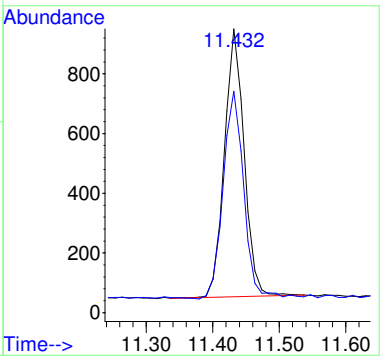


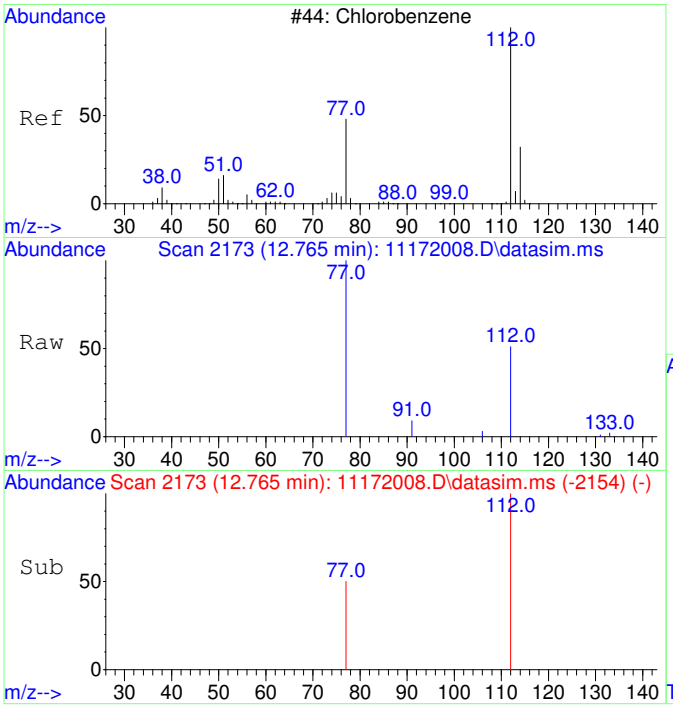


#15
Tetrachloroethene
Concen: 46.97 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:166 Resp: 1841

Ion	Ratio	Lower	Upper
166	100		
164	82.1	47.8	107.8

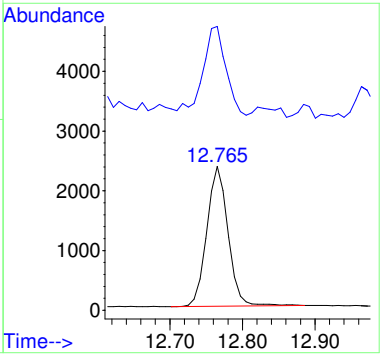


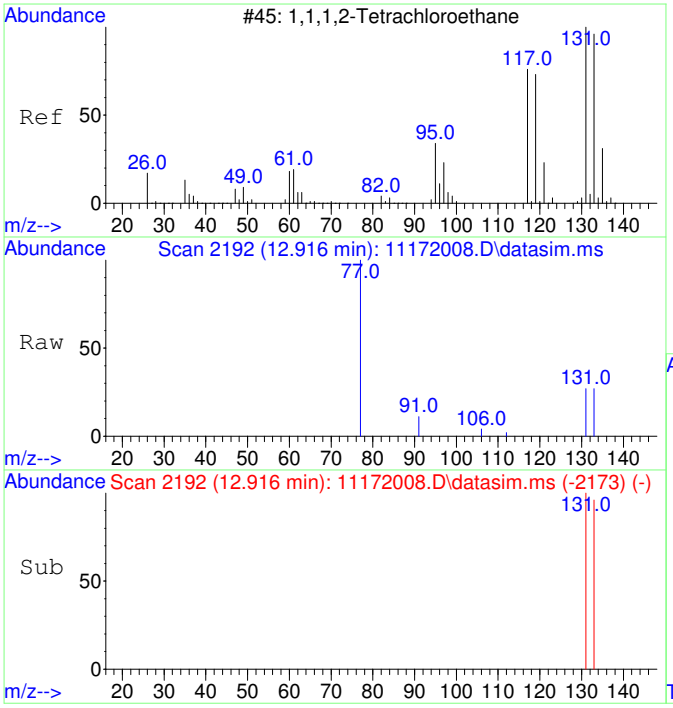


#16
Chlorobenzene
Concen: 49.25 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:112 Resp: 4776

Ion	Ratio	Lower	Upper
112	100		
77	68.7	23.6	83.6

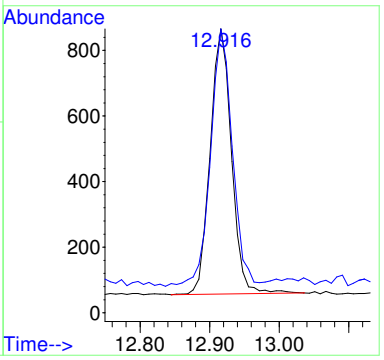


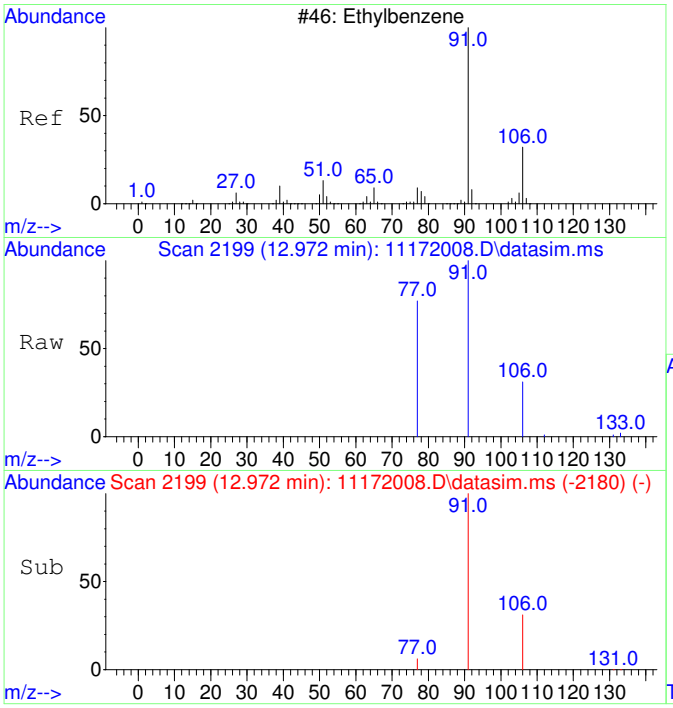


#17
1,1,1,2-Tetrachloroethane
Concen: 49.44 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:131 Resp: 1718

Ion	Ratio	Lower	Upper
131	100		
133	99.6	66.3	126.3

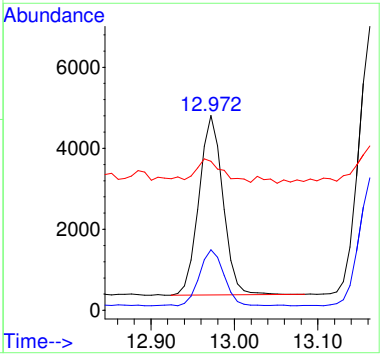


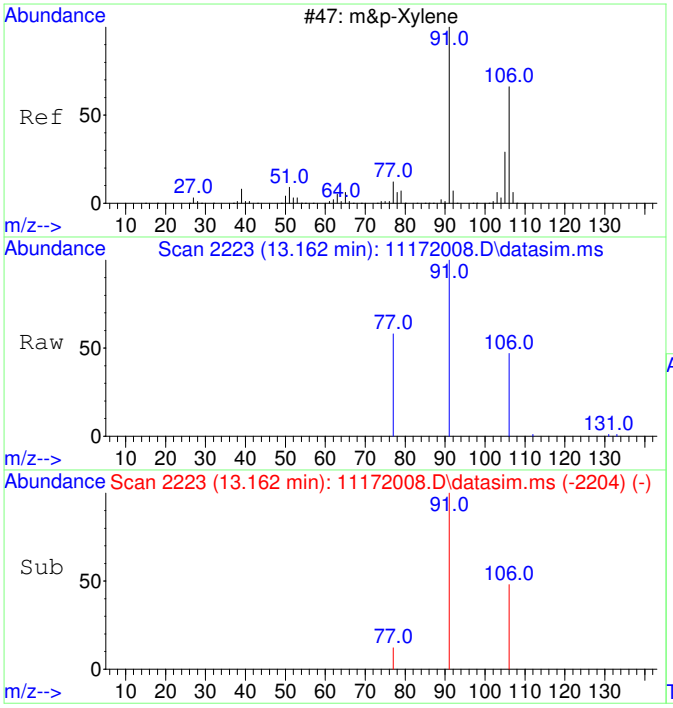


#18
Ethylbenzene
Concen: 53.67 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 8848

Ion	Ratio	Lower	Upper
91	100		
106	31.7	3.0	63.0
77	14.7	0.0	38.2

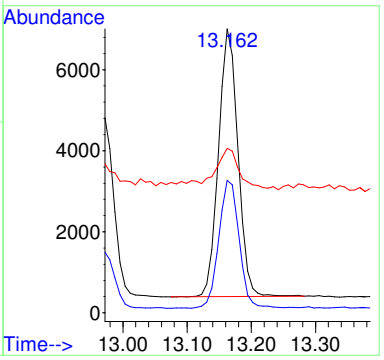


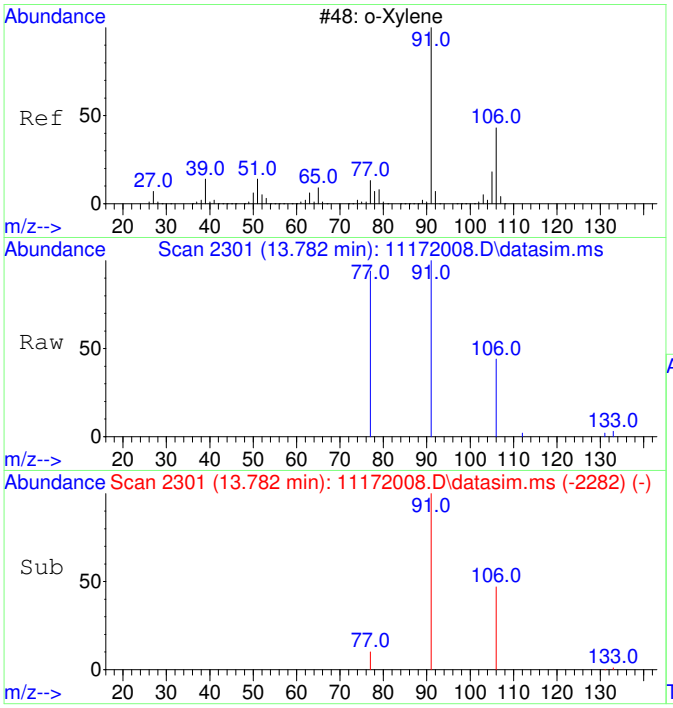


#19
m&p-Xylene
Concen: 107.19 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 13810

Ion	Ratio	Lower	Upper
91	100		
106	49.7	22.2	82.2
77	20.8	0.0	42.4

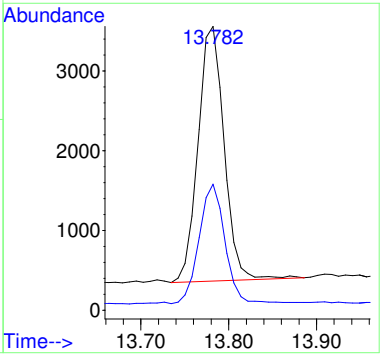


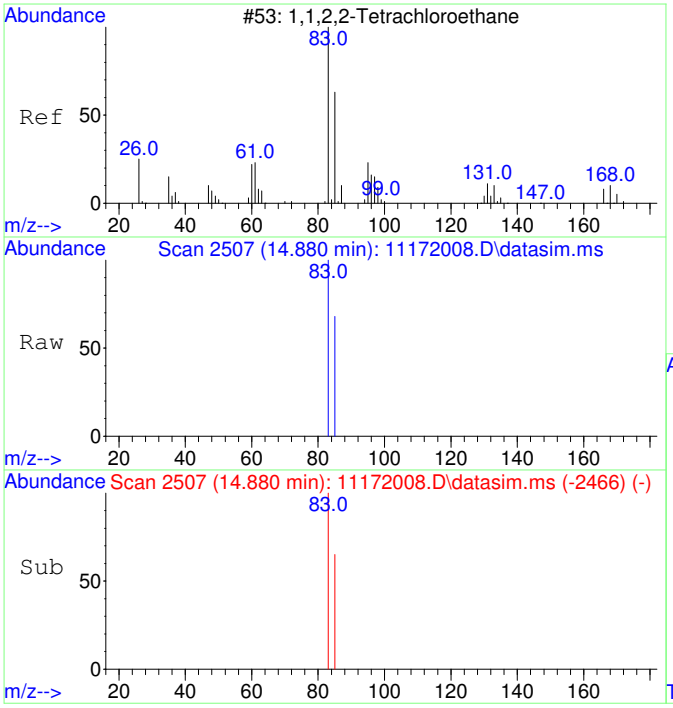


#20
o-Xylene
Concen: 47.96 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 6602

Ion	Ratio	Lower	Upper
91	100		
106	47.6	19.2	79.2

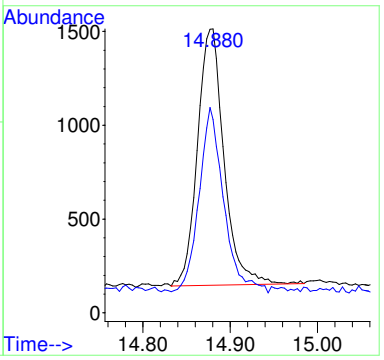


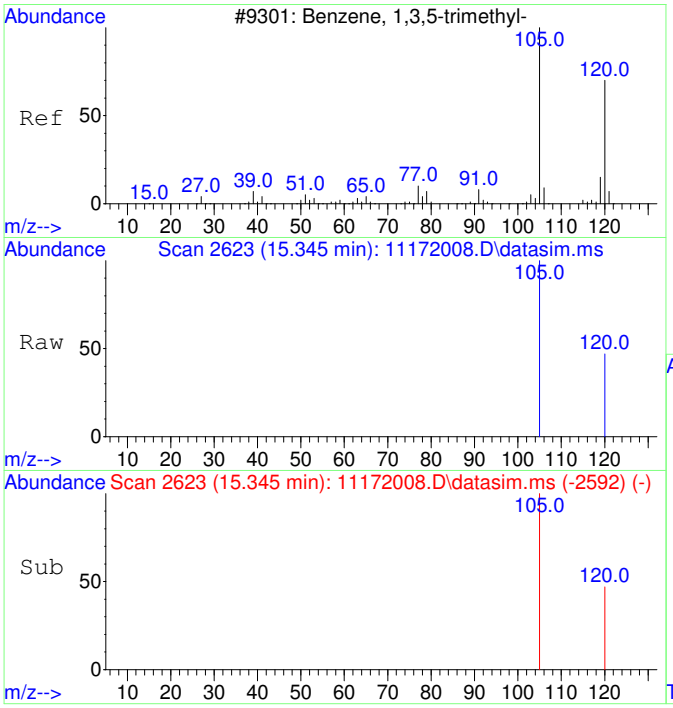


#21
1,1,2,2-Tetrachloroethane
Concen: 47.19 ug/L
RT: 14.880 min Scan# 2507
Delta R.T. 0.004 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 2879

Ion	Ratio	Lower	Upper
83	100		
85	67.1	34.8	94.8

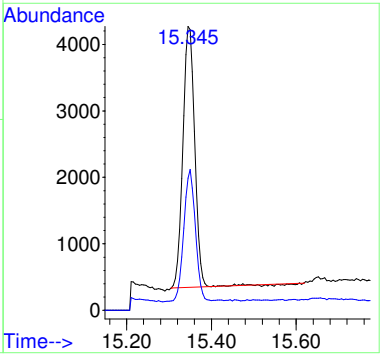


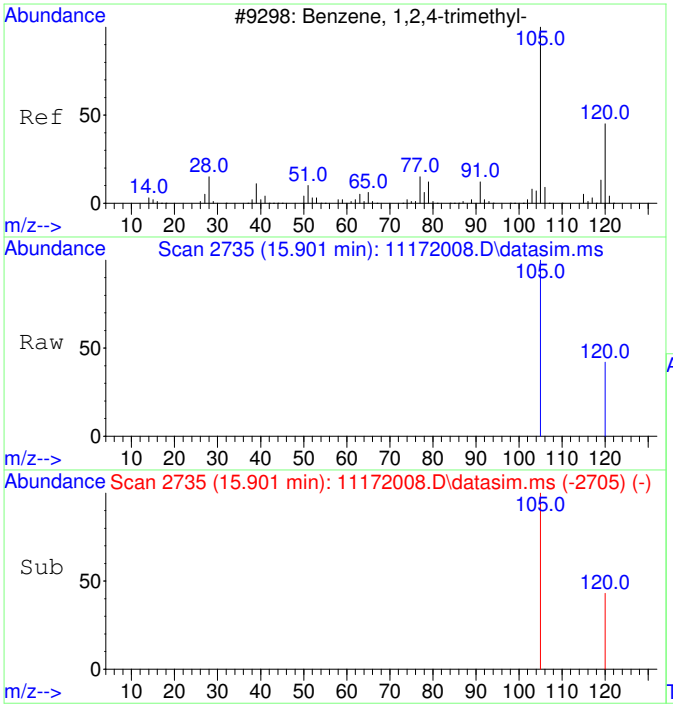


#22
1,3,5-Trimethylbenzene
Concen: 51.50 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 7546

Ion	Ratio	Lower	Upper
105	100		
120	49.3	21.1	81.1

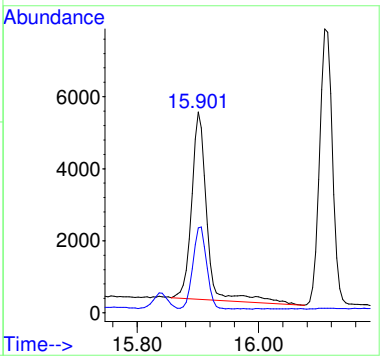


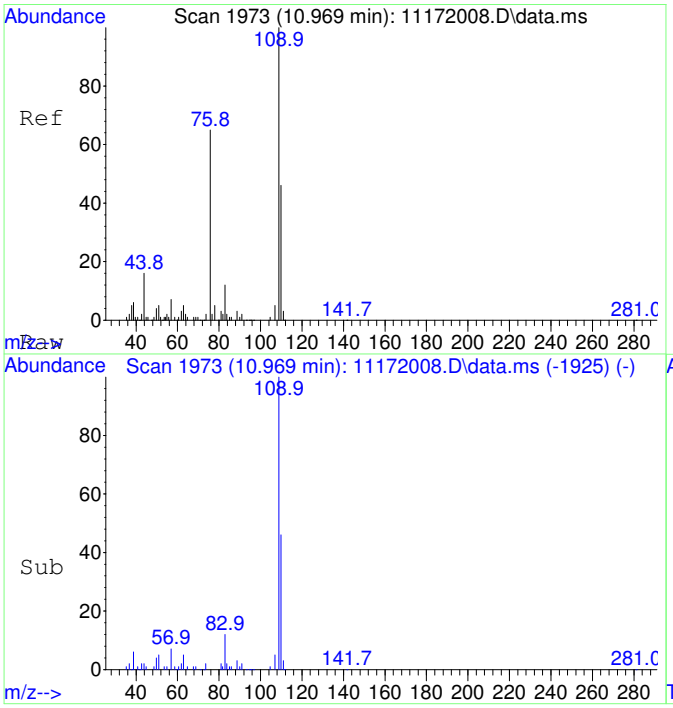


#23
1,2,4-Trimethylbenzene
Concen: 60.04 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 9137

Ion	Ratio	Lower	Upper
105	100		
120	38.7	17.2	77.2

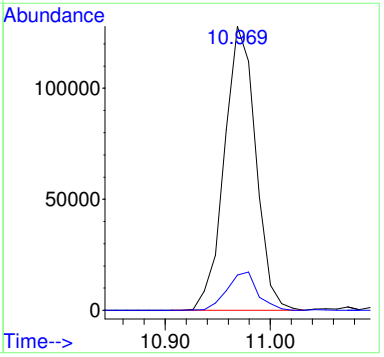


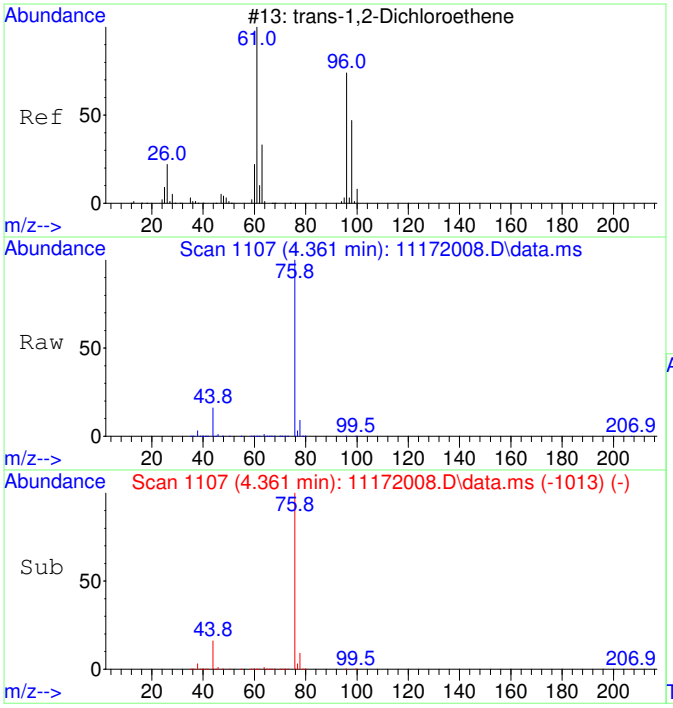


#25
2-Fluorotoluene SCAN
Concen: 5019.15 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:109 Resp: 265508

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.8

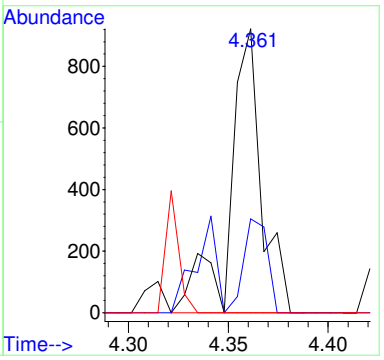


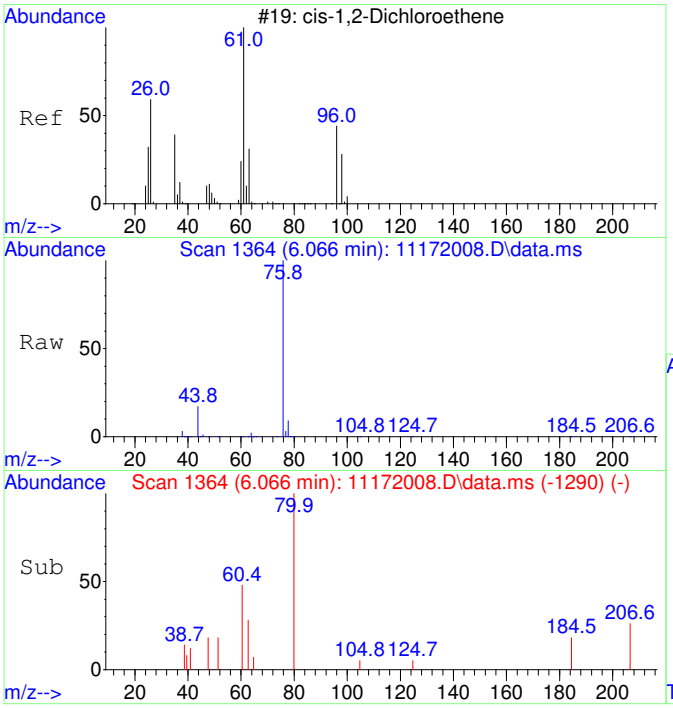


#27
trans-1,2-Dichloroethene SCAN
Concen: 72.80 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. 0.013 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 1012

Ion	Ratio	Lower	Upper
61	100		
96	25.0	49.0	109.0#
98	0.0	20.5	80.5#

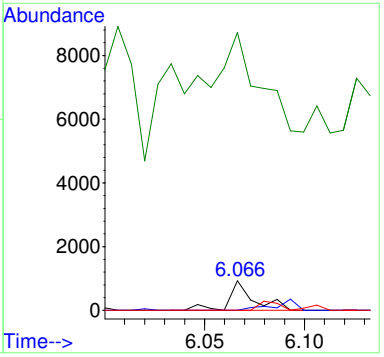


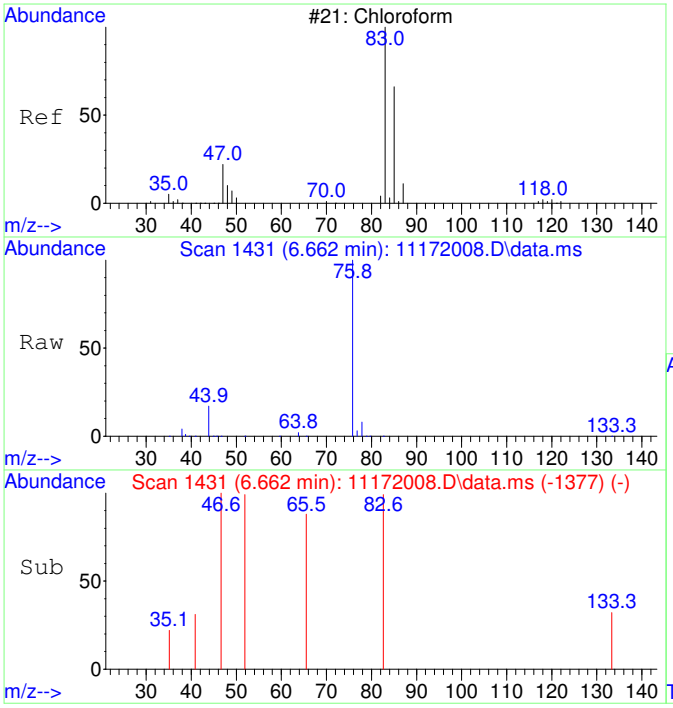


#29
cis-1,2-Dichloroethene SCAN
Concen: 45.48 ug/L
RT: 6.066 min Scan# 1364
Delta R.T. -0.007 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 784

Ion	Ratio	Lower	Upper
61	100		
96	0.0	39.9	99.9#
98	0.0	13.5	73.5#
64	1243.8	4.5	64.5#

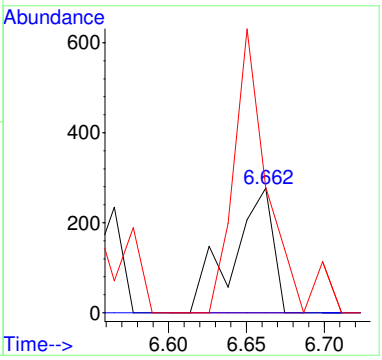


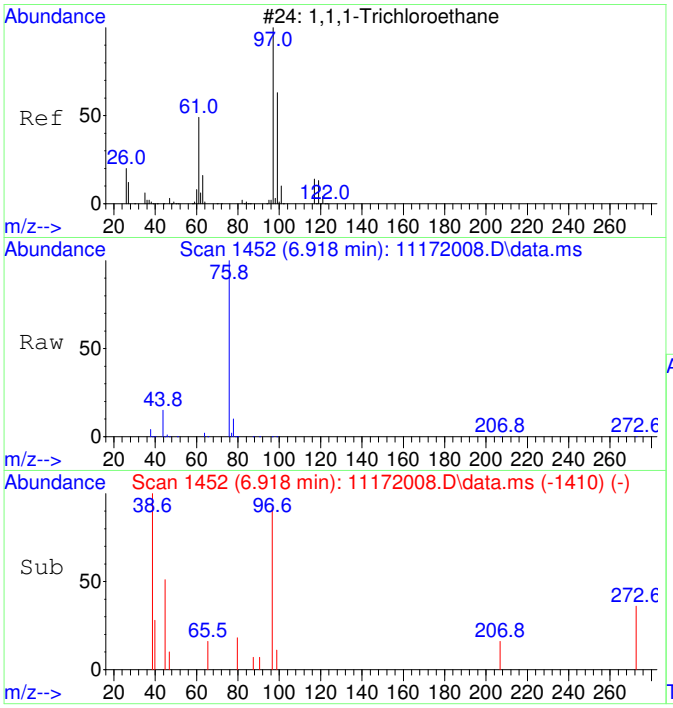


#30
Chloroform SCAN
Concen: 26.90 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 503

Ion	Ratio	Lower	Upper
83	100		
85	0.0	34.6	94.6#
47	198.0	0.0	53.4#

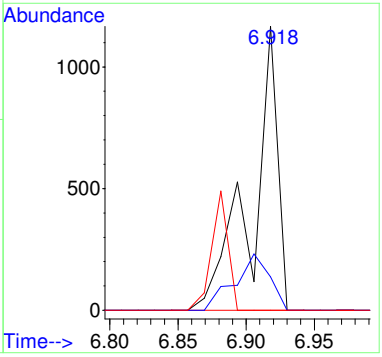


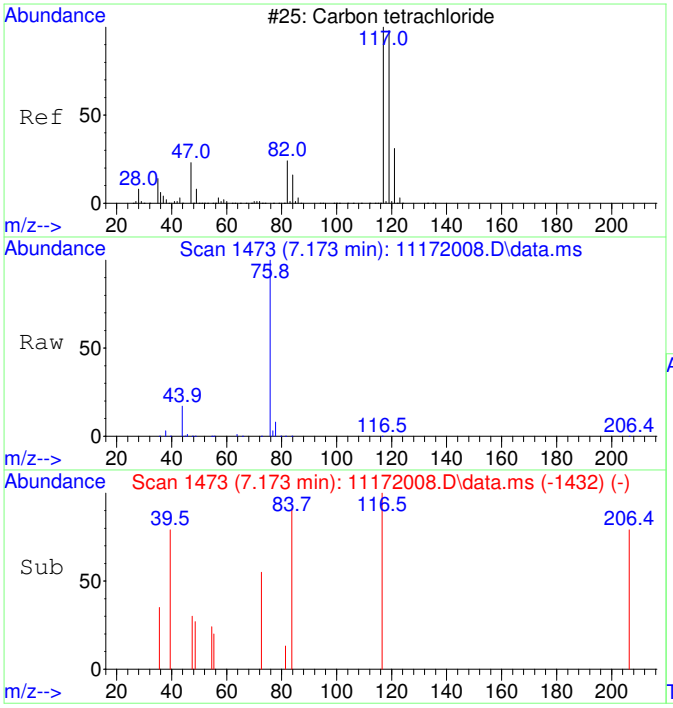


#31
1,1,1-Trichloroethane SCAN
Concen: 89.22 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 1520

Ion	Ratio	Lower	Upper
97	100		
99	27.4	43.6	103.6#
61	0.0	18.0	78.0#

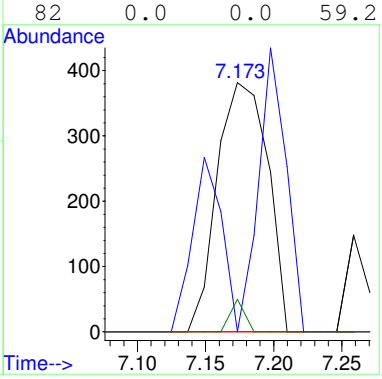


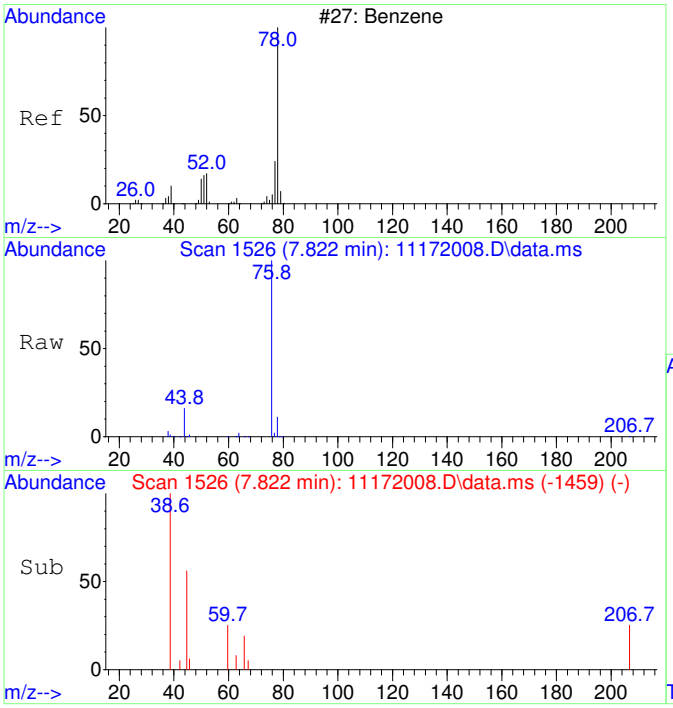


#32
Carbon tetrachloride SCAN
Concen: 55.48 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:117 Resp: 986

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

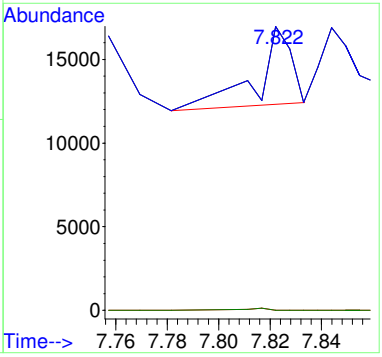


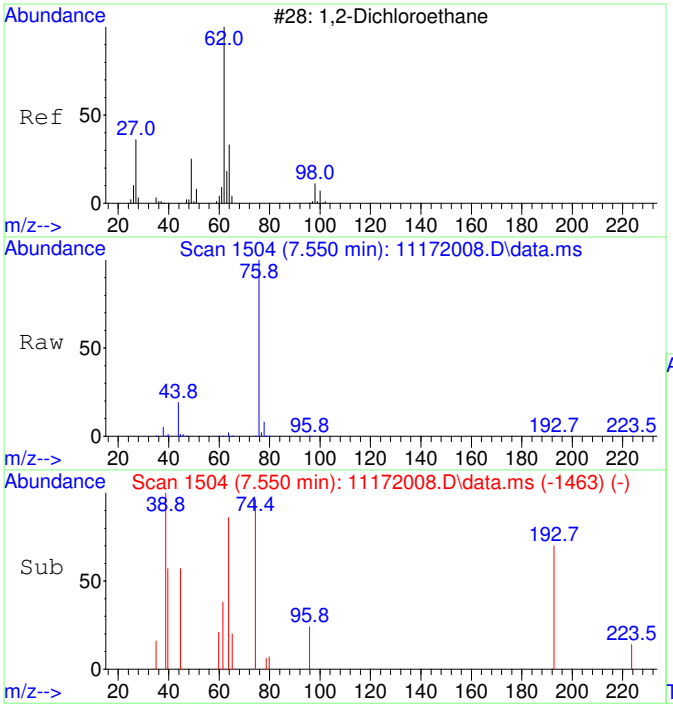


#33
Benzene SCAN
Concen: 137.18 ug/L
RT: 7.822 min Scan# 1526
Delta R.T. 0.320 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 78 Resp: 6435

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	2.0	0.0	47.9
51	2.0	0.0	44.1

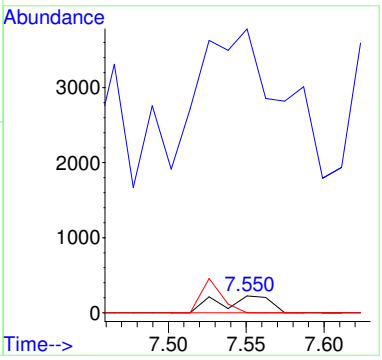


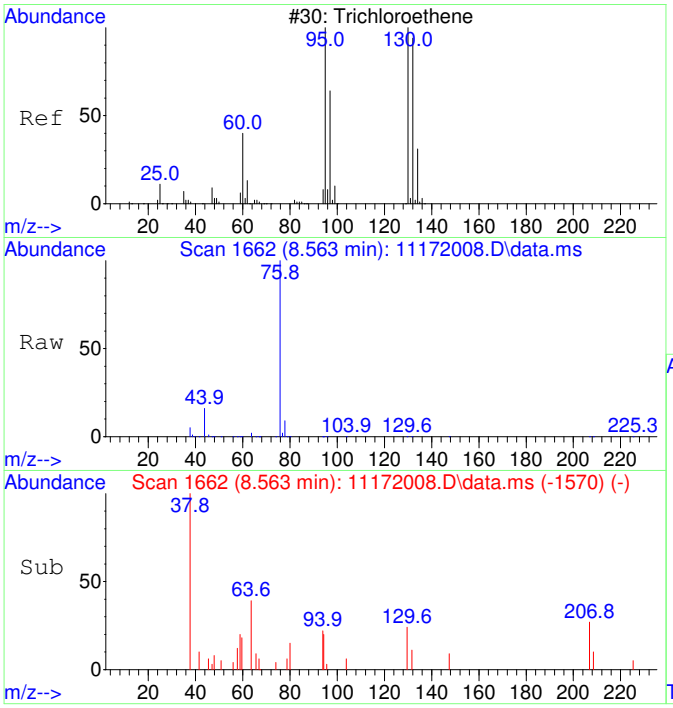


#34
1,2-Dichloroethane SCAN
Concen: 29.27 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 62 Resp: 507

Ion	Ratio	Lower	Upper
62	100		
64	1336.5	5.2	65.2#
49	0.0	3.9	63.9#

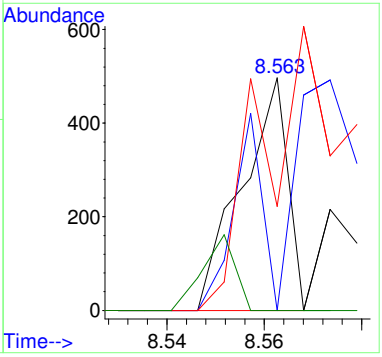


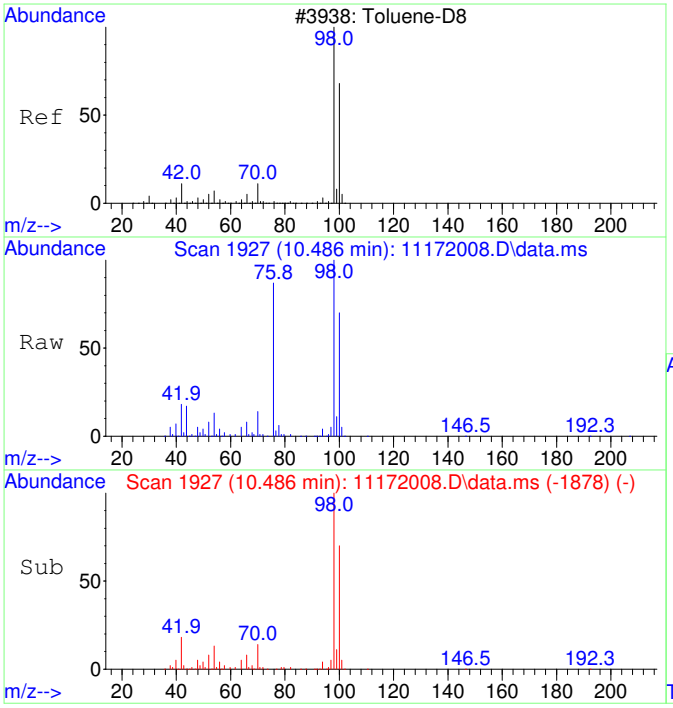


#35
Trichloroethene SCAN
Concen: 25.29 ug/L
RT: 8.563 min Scan# 1662
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:130 Resp: 326

Ion	Ratio	Lower	Upper
130	100		
95	0.0	60.5	120.5#
132	259.2	59.6	119.6#
97	23.3	28.2	88.2#

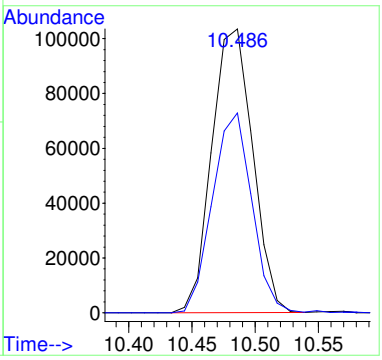


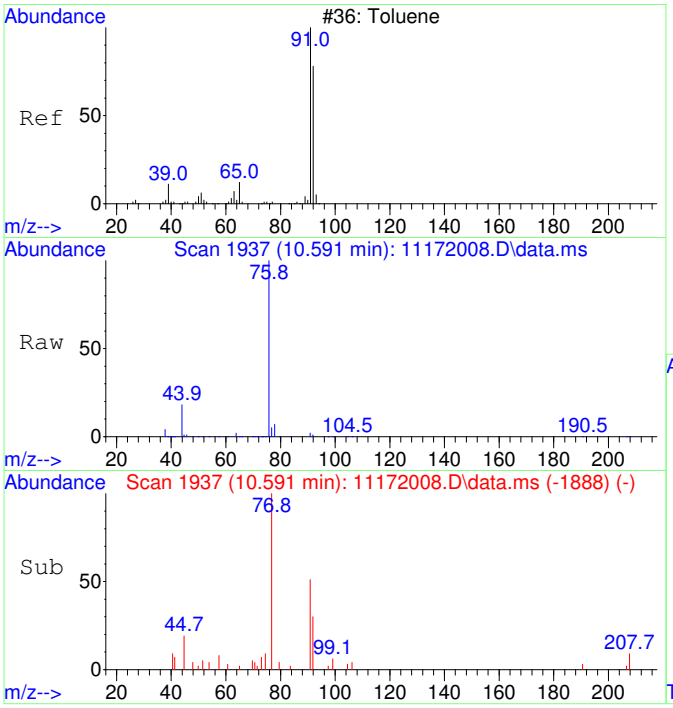


#36
Toluene-d8 SCAN
Concen: 4525.85 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 98 Resp: 234139

Ion	Ratio	Lower	Upper
98	100		
100	68.0	40.0	100.0

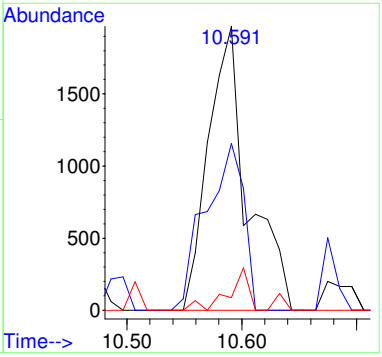


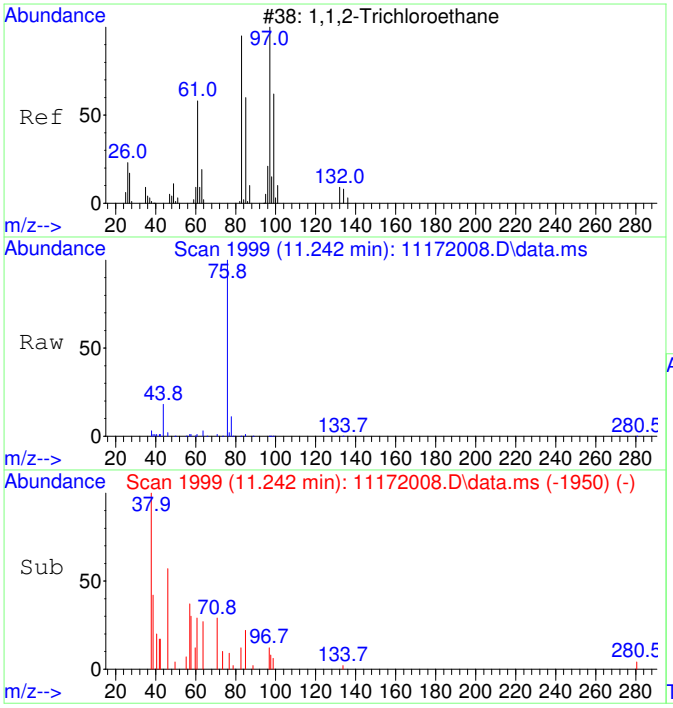


#37
Toluene SCAN
Concen: 70.94 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 4700

Ion	Ratio	Lower	Upper
91	100		
92	57.1	28.3	88.3
65	7.5	0.0	41.0

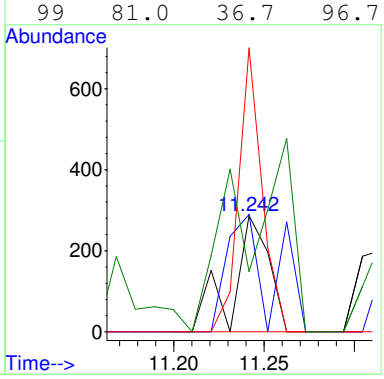


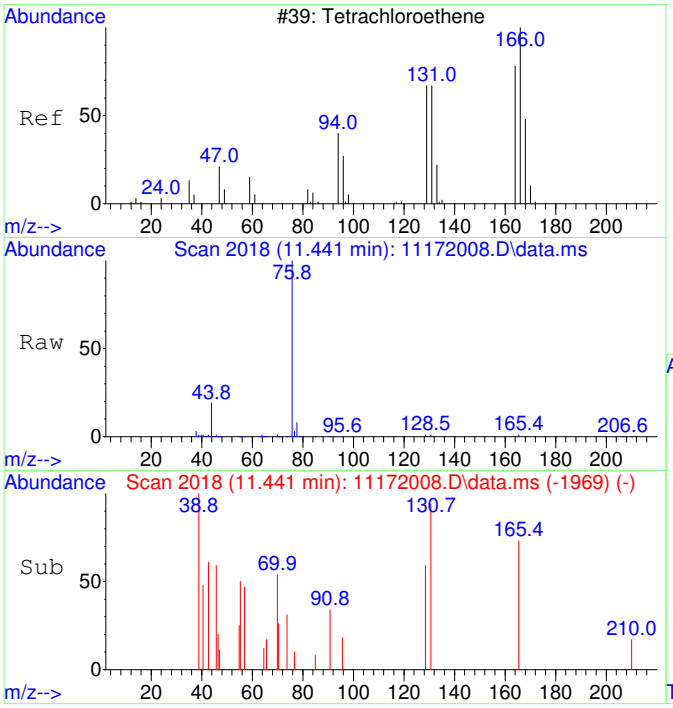


#38
1,1,2-Trichloroethane SCAN
Concen: 26.90 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 400

Ion	Ratio	Lower	Upper
97	100		
83	125.5	57.7	117.7#
61	158.5	32.1	92.1#
99	81.0	36.7	96.7

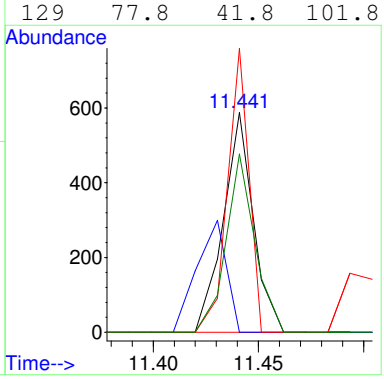


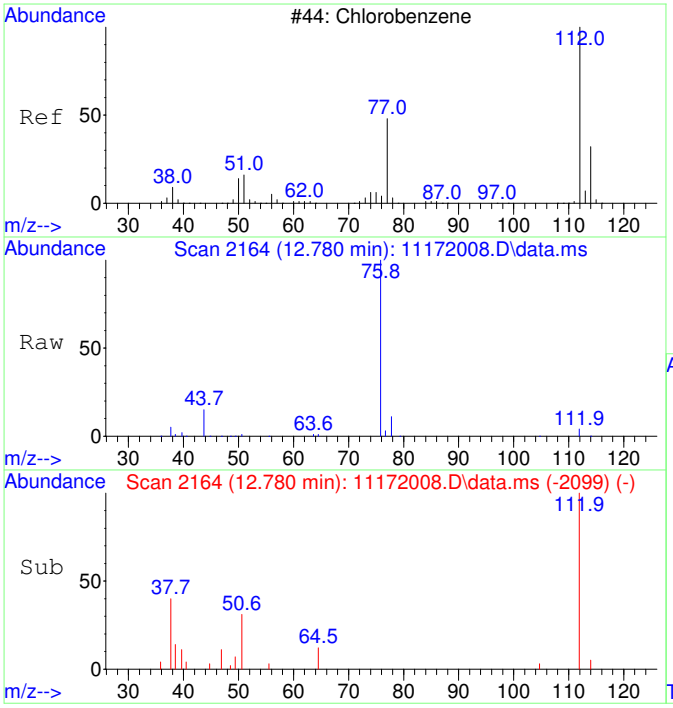


#39
Tetrachloroethene SCAN
Concen: 36.56 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:166 Resp: 582

Ion	Ratio	Lower	Upper
166	100		
164	50.2	50.9	110.9#
131	92.1	38.7	98.7
129	77.8	41.8	101.8

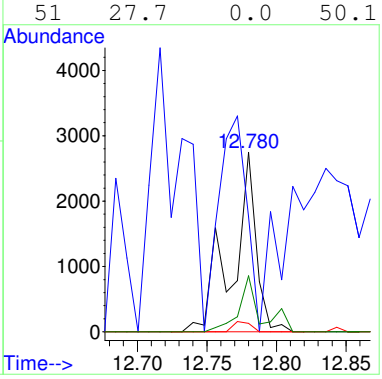


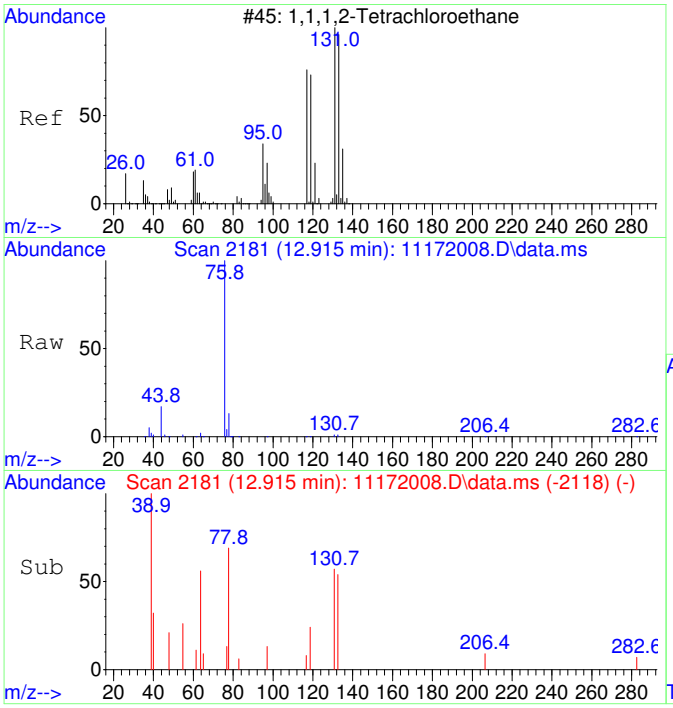


#40
Chlorobenzene SCAN
Concen: 72.83 ug/L
RT: 12.780 min Scan# 2164
Delta R.T. 0.016 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:112 Resp: 3297

Ion	Ratio	Lower	Upper
112	100		
77	139.8	28.2	88.2#
114	4.2	2.3	62.3
51	27.7	0.0	50.1

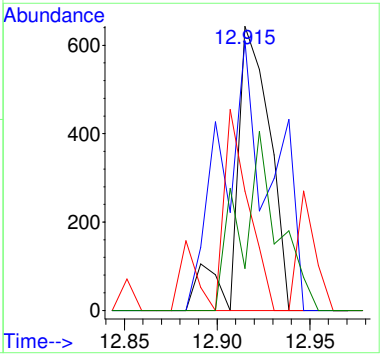


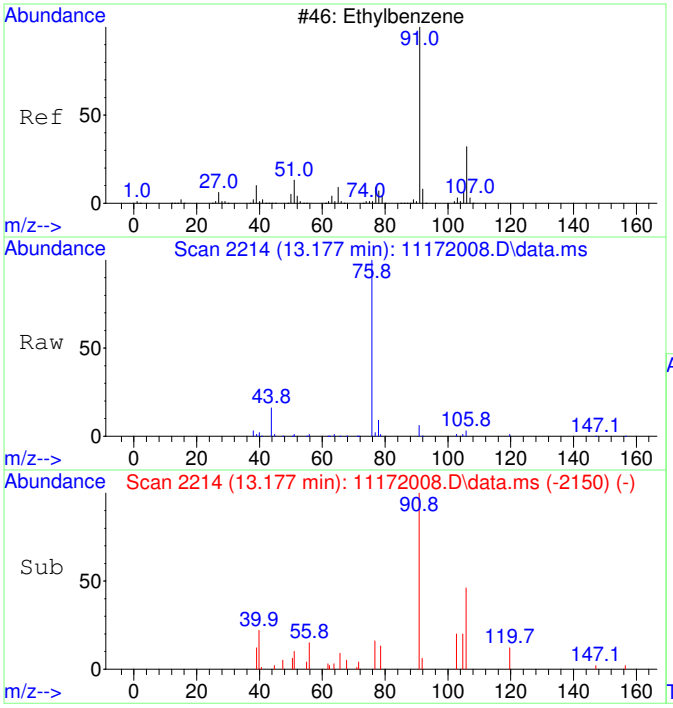


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 49.12 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:131 Resp: 823

Ion	Ratio	Lower	Upper
131	100		
133	136.6	66.9	126.9#
119	62.3	40.4	100.4
117	68.4	35.1	95.1

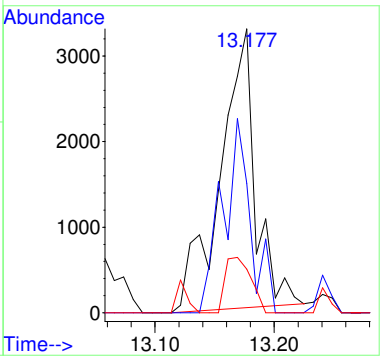


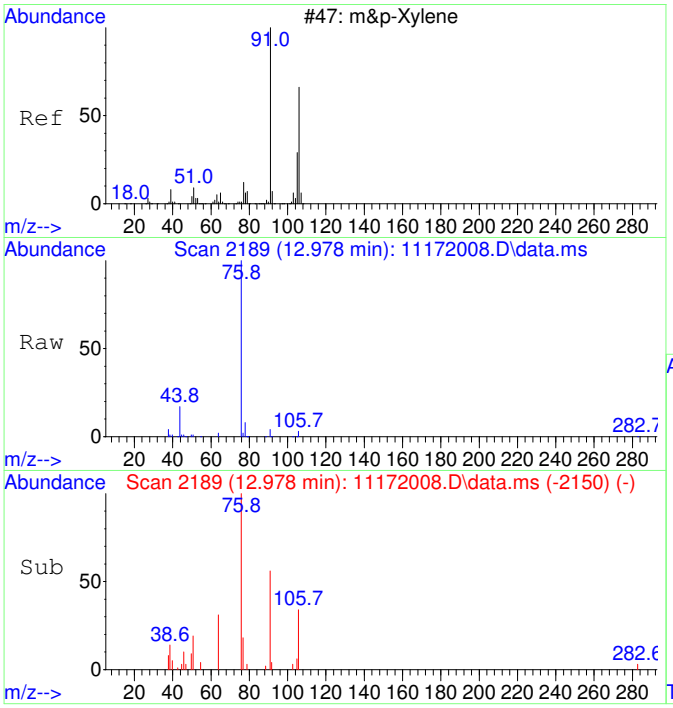


#42
Ethylbenzene SCAN
Concen: 55.48 ug/L
RT: 13.177 min Scan# 2214
Delta R.T. 0.008 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 6696

Ion	Ratio	Lower	Upper
91	100		
106	55.6	23.1	83.1
51	14.6	0.0	40.1

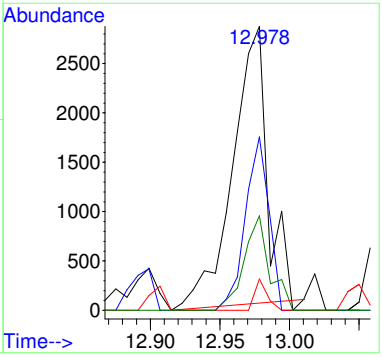


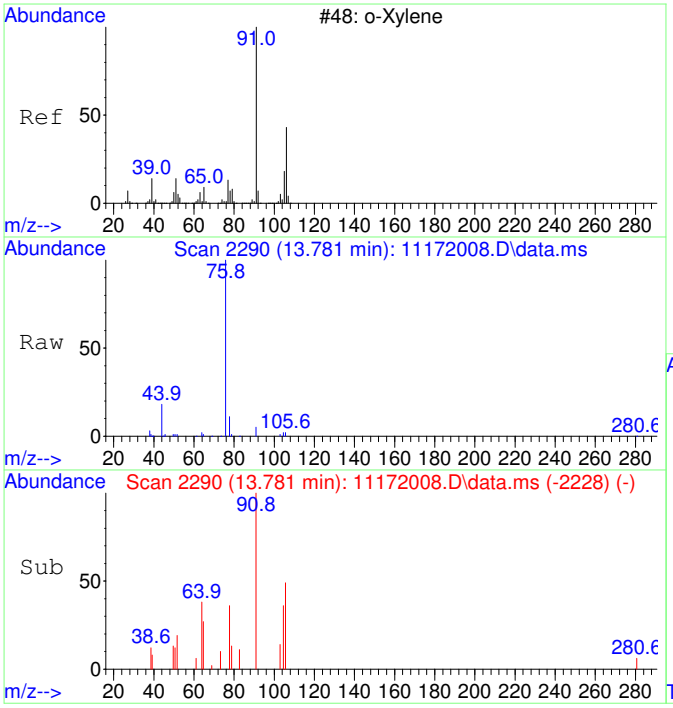


#43
m&p-Xylene SCAN
Concen: 40.39 ug/L
RT: 12.978 min Scan# 2189
Delta R.T. -0.191 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 4875

Ion	Ratio	Lower	Upper
91	100		
106	42.5	23.1	83.1
105	4.0	0.0	54.7
51	25.1	0.0	40.1

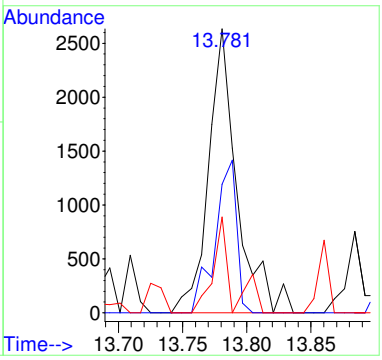


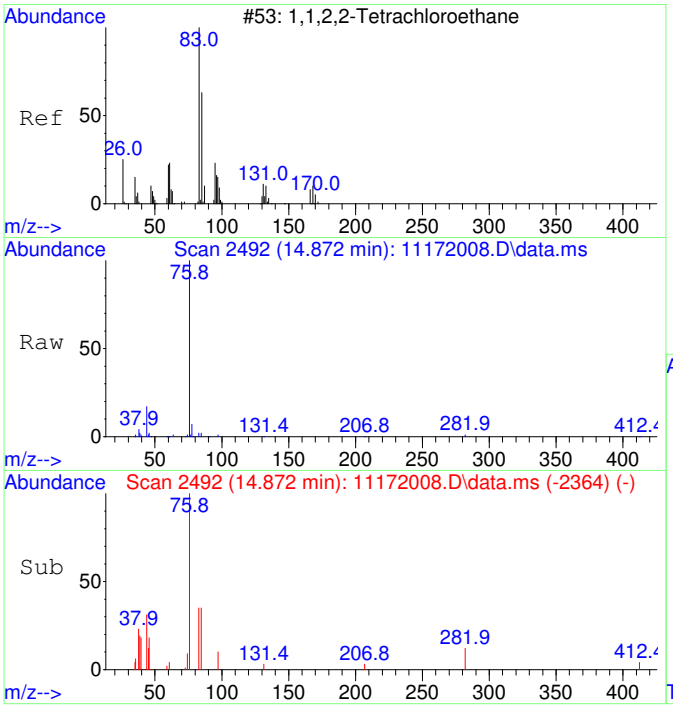


#44
o-Xylene SCAN
Concen: 63.04 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 4073

Ion	Ratio	Lower	Upper
91	100		
106	40.4	18.0	78.0
105	21.8	0.0	56.6

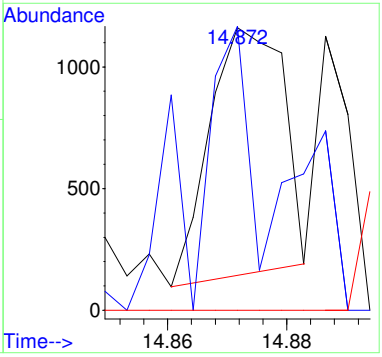


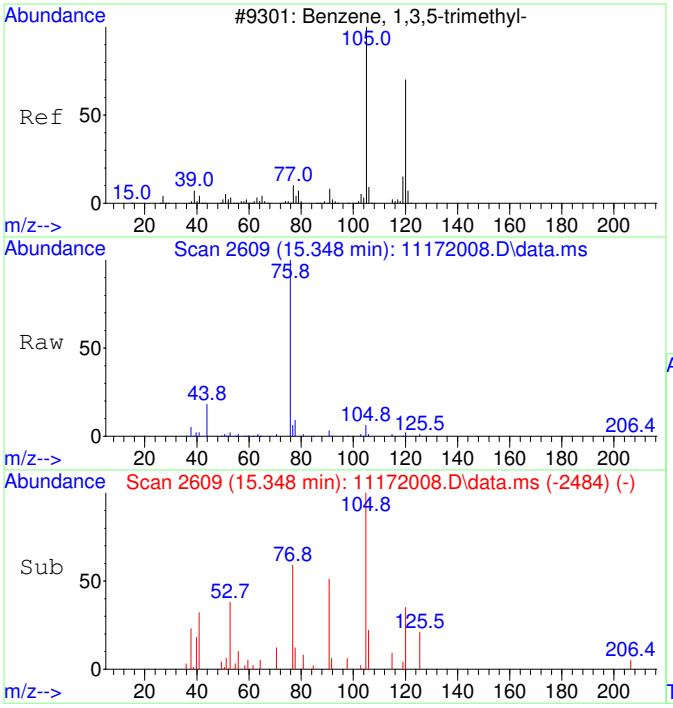


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 27.74 ug/L
RT: 14.872 min Scan# 2492
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 874

Ion	Ratio	Lower	Upper
83	100		
85	133.1	35.9	95.9#
95	0.0	0.0	47.4

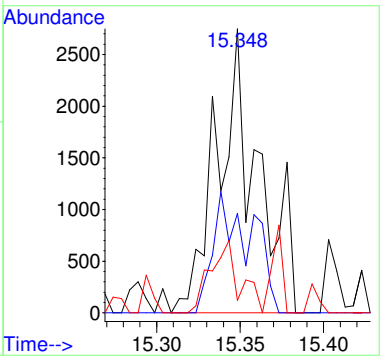


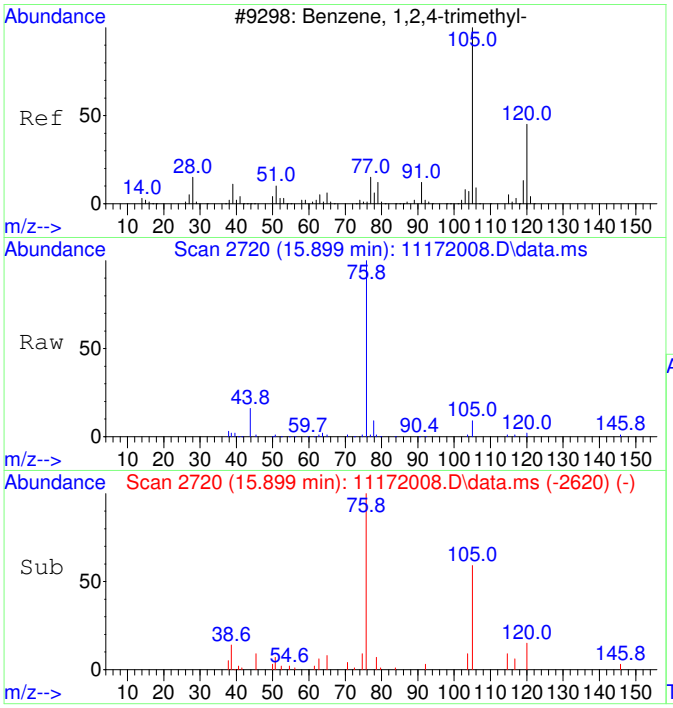


#46
1,3,5-Trimethylbenzene SCAN
Concen: 68.69 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 4677

Ion	Ratio	Lower	Upper
105	100		
120	39.6	18.3	78.3
119	18.2	0.0	43.1

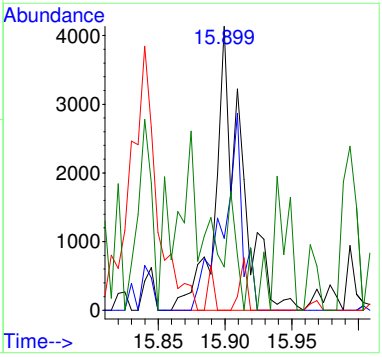


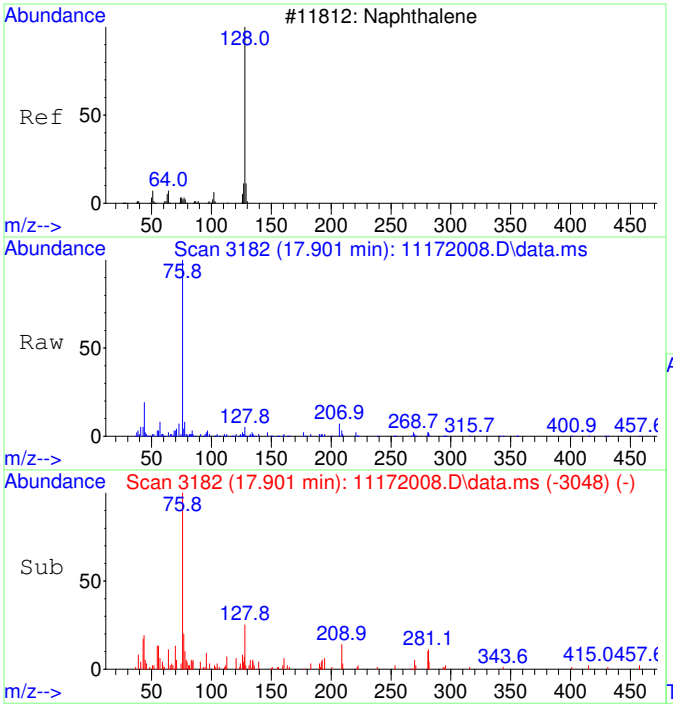


#47
1,2,4-Trimethylbenzene SCAN
Concen: 80.53 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.005 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 5611

Ion	Ratio	Lower	Upper
105	100		
120	53.3	16.9	76.9
119	5.1	0.0	41.9
77	4.8	0.0	42.3

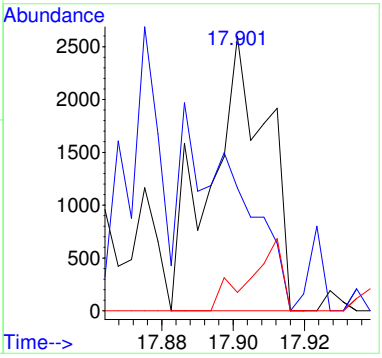




#48
Naphthalene SCAN
Concen: 27.23 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. -0.004 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:128 Resp: 2871

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	44.0
129	14.9	0.0	40.8



Quantitation Report (QT Reviewed)

Table of Contents

M.I. Performed By:
TD at 8:50 am, Nov 18, 2020

M.I. Approved By:
ZR at 3:36 pm, Nov 23, 2020

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172008.D
Acq On : 17 Nov 2020 10:40
InstName : AG5975C
Operator : TD
Sample : B20K062-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 17 10:58:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

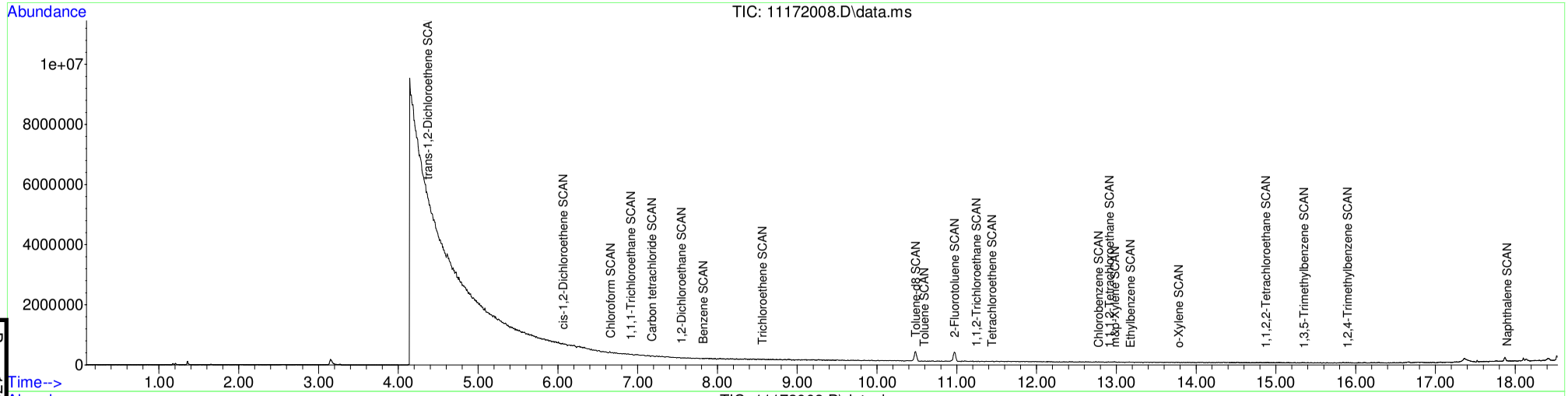
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	542657	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	468484	4410.05	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.20%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.086	61	809m	37.33	ug/L	
3] trans-1,2-Dichloroethene	4.336	61	996	39.78	ug/L #	45
4] 1,1-Dichloroethane	5.059	63	1293	41.49	ug/L	46
5] cis-1,2-Dichloroethene	6.074	61	1337	40.64	ug/L	98
6] Chloroform	6.639	83	1450	43.06	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1549	42.36	ug/L	98
8] Carbon tetrachloride	7.175	117	1433	41.64	ug/L	100
9] Benzene	7.503	78	9310	100.98	ug/L #	28
10] 1,2-Dichloroethane	7.540	62	1407	42.75	ug/L #	1
11] Trichloroethene	8.564	130	1338	48.20	ug/L	94
13] Toluene	10.582	91	6794	50.16	ug/L	98
14] 1,1,2-Trichloroethane	11.232	97	1379	46.73	ug/L	97
15] Tetrachloroethene	11.432	166	1841	46.97	ug/L	95
16] Chlorobenzene	12.765	112	4776	49.25	ug/L	79
17] 1,1,1,2-Tetrachloroethane	12.916	131	1718	49.44	ug/L	97
18] Ethylbenzene	12.972	91	8848	53.67	ug/L	95
19] m&p-Xylene	13.162	91	13810	107.19	ug/L	93
20] o-Xylene	13.782	91	6602	47.96	ug/L	98
21] 1,1,2,2-Tetrachloroethane	14.880	83	2879	47.19	ug/L	97
22] 1,3,5-Trimethylbenzene	15.345	105	7546	51.50	ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	9137	60.04	ug/L	87
25) 2-Fluorotoluene SCAN	10.969	109	265508	5019.15	ug/L	98
27) trans-1,2-Dichloroethe...	4.361	61	1012	72.80	ug/L #	34
29) cis-1,2-Dichloroethene...	6.066	61	784	45.48	ug/L #	1
30) Chloroform SCAN	6.662	83	503	26.90	ug/L #	1
31) 1,1,1-Trichloroethane ...	6.918	97	1520	89.22	ug/L #	39
32) Carbon tetrachloride SCAN	7.173	117	986	55.48	ug/L #	15
33) Benzene SCAN	7.822	78	6435	137.18	ug/L	92
34) 1,2-Dichloroethane SCAN	7.550	62	507	29.27	ug/L #	1
35) Trichloroethene SCAN	8.563	130	326	25.29	ug/L #	1
36) Toluene-d8 SCAN	10.486	98	234139	4525.85	ug/L	98
37) Toluene SCAN	10.591	91	4700	70.94	ug/L	97
38) 1,1,2-Trichloroethane ...	11.242	97	400	26.90	ug/L #	42
39) Tetrachloroethene SCAN	11.441	166	582	36.56	ug/L #	76
40) Chlorobenzene SCAN	12.780	112	3297	72.83	ug/L #	25
41) 1,1,1,2-Tetrachloroeth...	12.915	131	823	49.12	ug/L #	79
42) Ethylbenzene SCAN	13.177	91	6696	55.48	ug/L	95
43) m&p-Xylene SCAN	12.978	91	4875	40.39	ug/L	75
44) o-Xylene SCAN	13.781	91	4073	63.04	ug/L	89
45) 1,1,2,2-Tetrachloroeth...	14.872	83	874	27.74	ug/L #	25
46) 1,3,5-Trimethylbenzene...	15.348	105	4677	68.69	ug/L	87
47) 1,2,4-Trimethylbenzene...	15.899	105	5611	80.53	ug/L	87
48) Naphthalene SCAN	17.901	128	2871	27.23	ug/L #	76

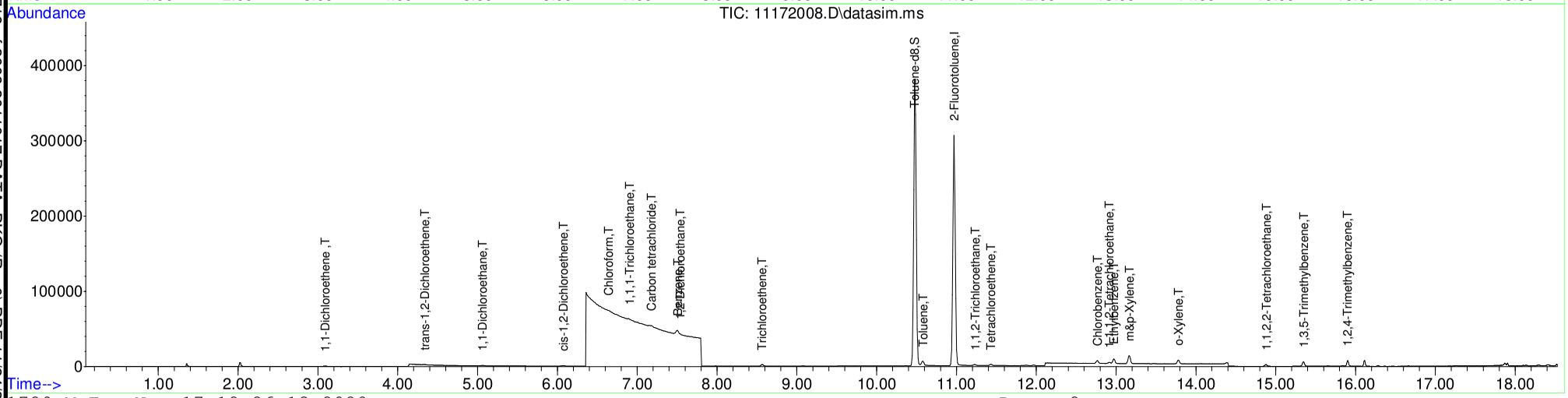
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172008.D
Acq On : 17 Nov 2020 10:40
InstName : AG5975C
Operator : TD
Sample : B20K062-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 17 10:58:55 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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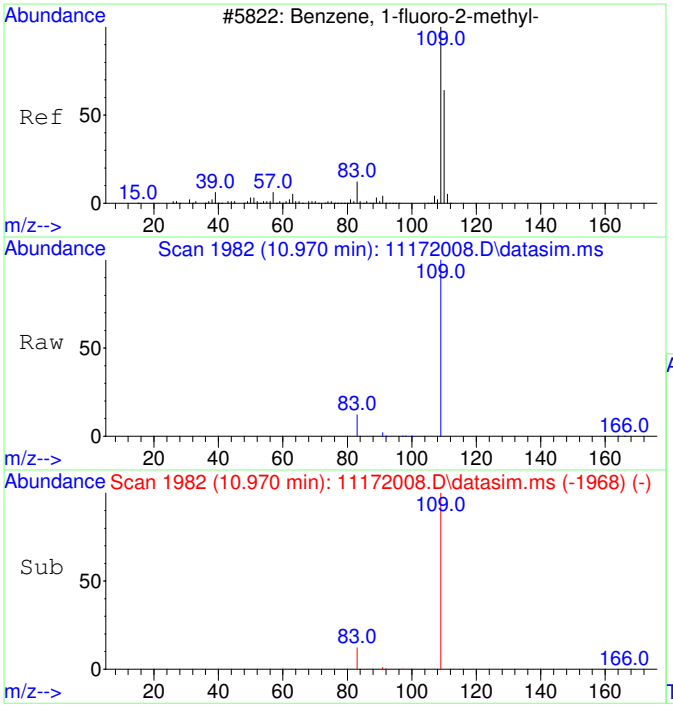
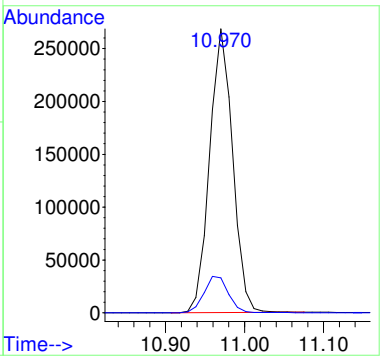
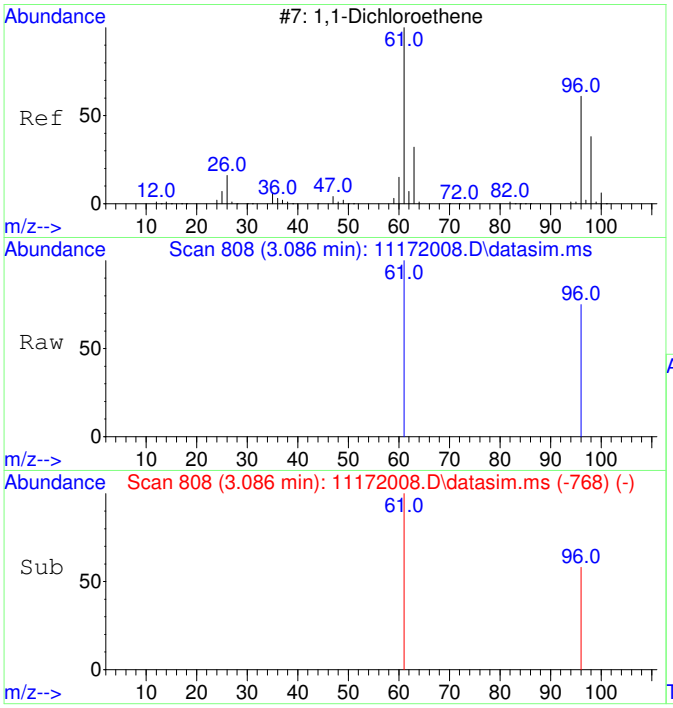


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:109 Resp: 542657

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

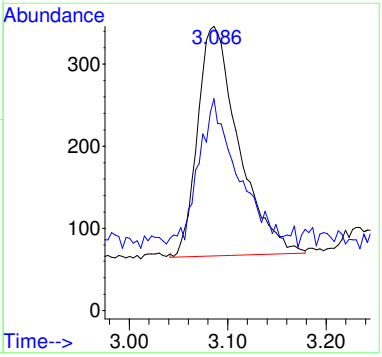


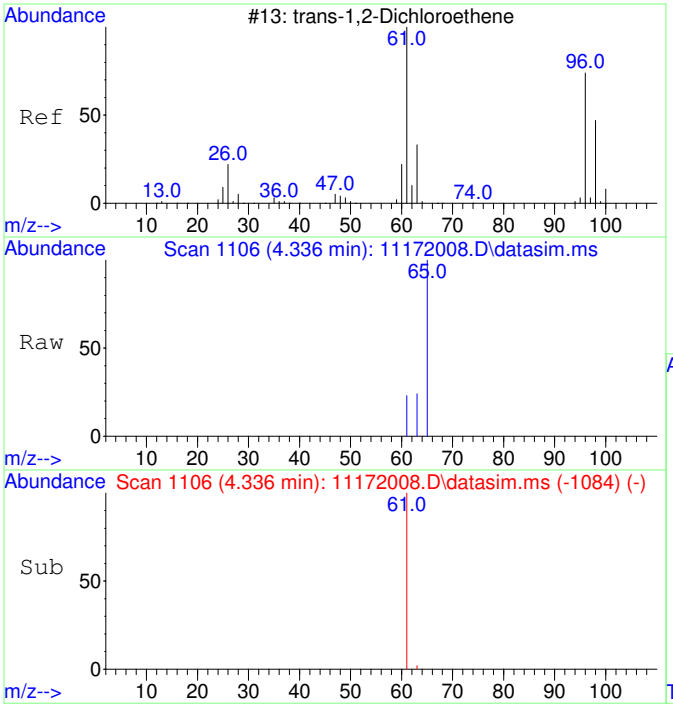


#2
1,1-Dichloroethene
Concen: 37.33 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 809

Ion	Ratio	Lower	Upper
61	100		
96	89.0	37.2	97.2

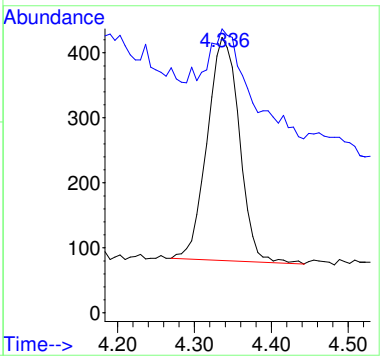


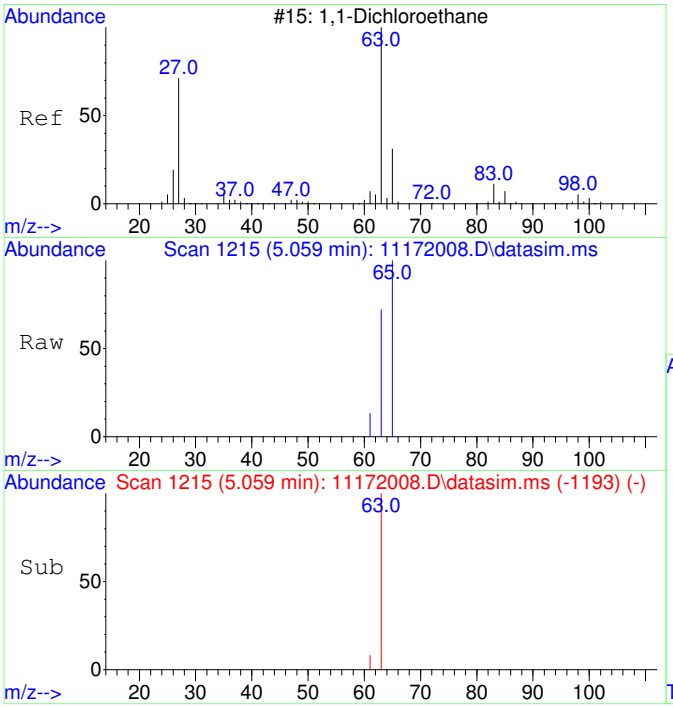


#3
trans-1,2-Dichloroethene
Concen: 39.78 ug/L
RT: 4.336 min Scan# 1106
Delta R.T. -0.007 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 996

Ion	Ratio	Lower	Upper
61	100		
63	63.3	2.4	62.4#

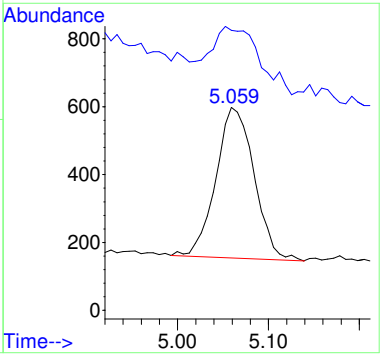


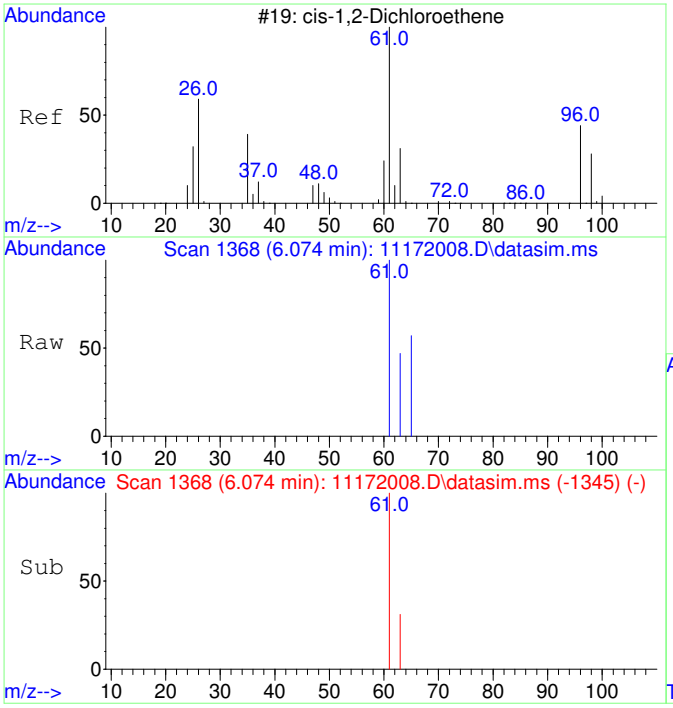


#4
1,1-Dichloroethane
Concen: 41.49 ug/L
RT: 5.059 min Scan# 1215
Delta R.T. -0.007 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 63 Resp: 1293

Ion	Ratio	Lower	Upper
63	100		
65	61.8	1.8	61.8

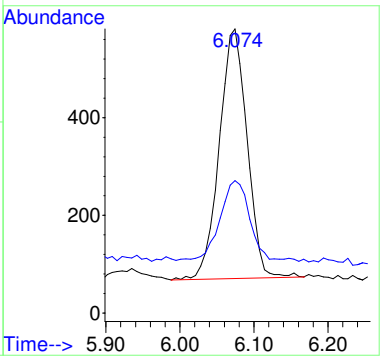


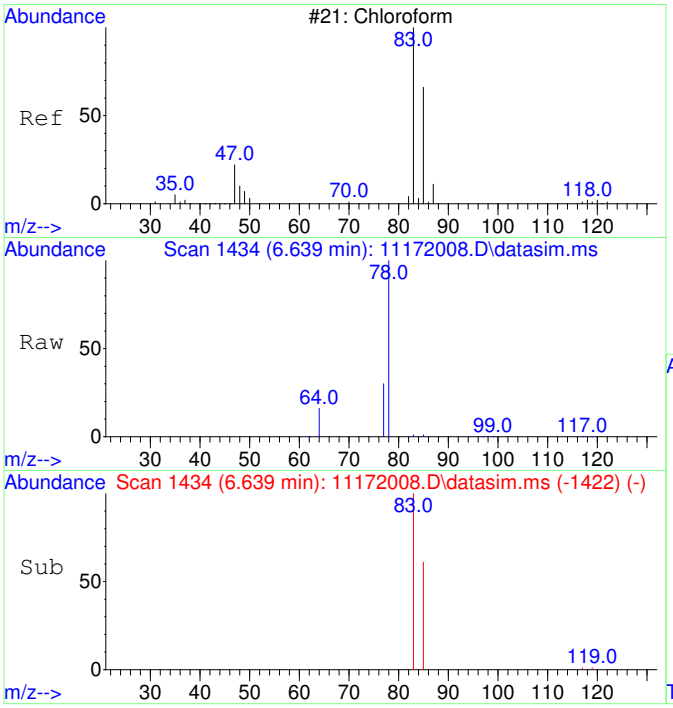


#5
cis-1,2-Dichloroethene
Concen: 40.64 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 1337

Ion	Ratio	Lower	Upper
61	100		
63	33.7	2.5	62.5

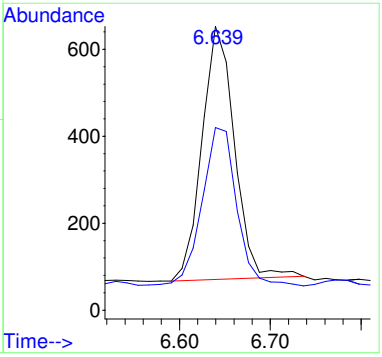


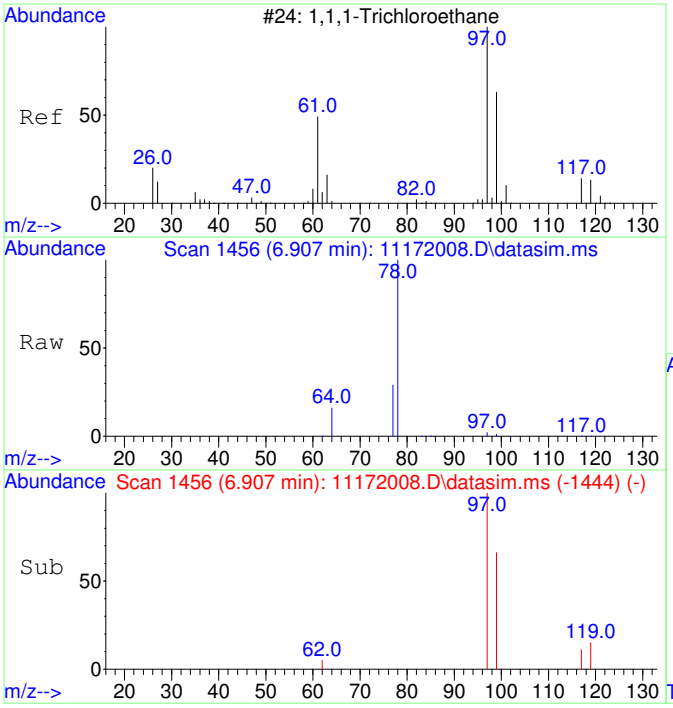


#6
Chloroform
Concen: 43.06 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 1450

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.1	95.1

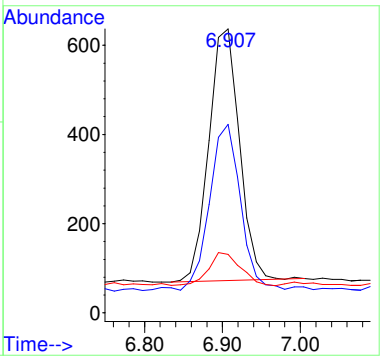


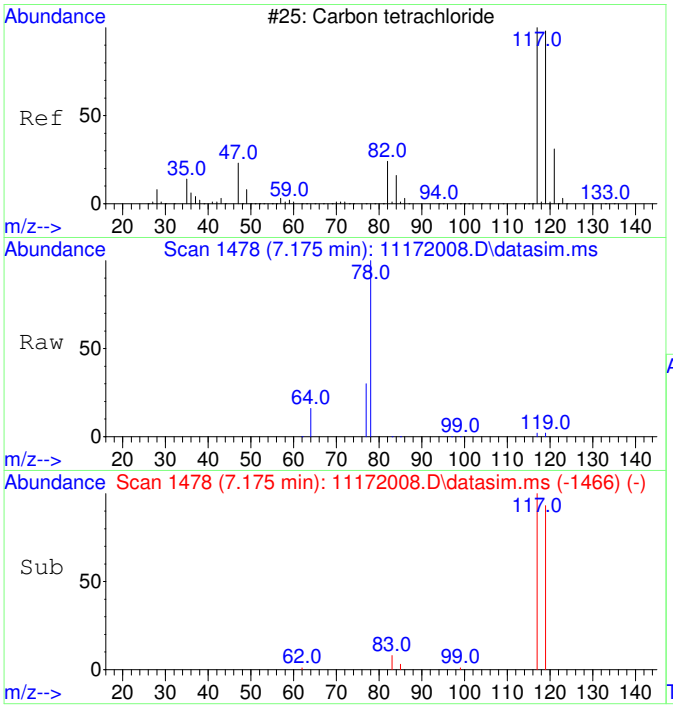


#7
1,1,1-Trichloroethane
Concen: 42.36 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 1549

Ion	Ratio	Lower	Upper
97	100		
99	66.4	34.6	94.6
117	13.8	0.0	43.2

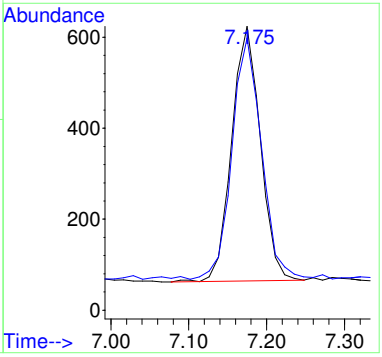


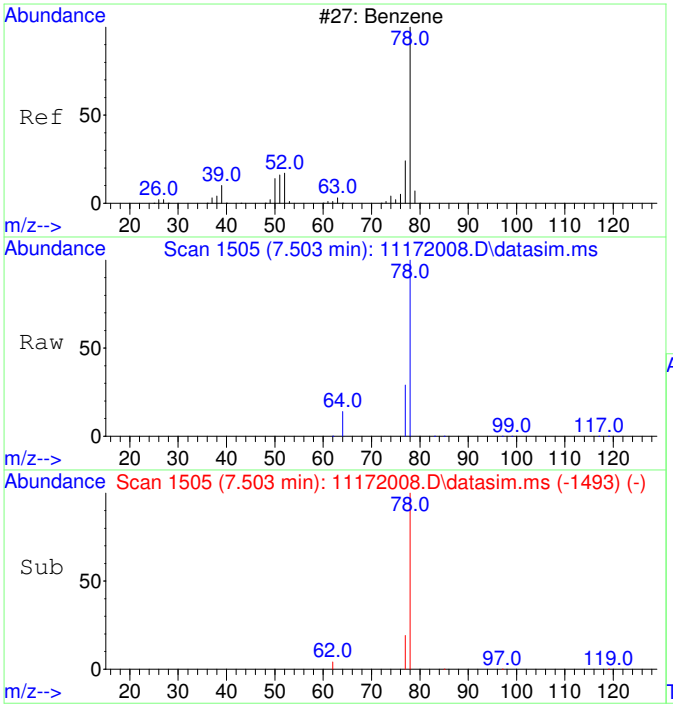


#8
Carbon tetrachloride
Concen: 41.64 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:117 Resp: 1433

Ion	Ratio	Lower	Upper
117	100		
119	96.2	66.4	126.4

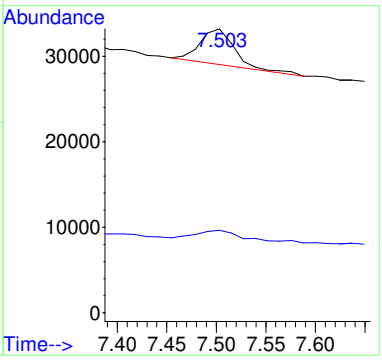


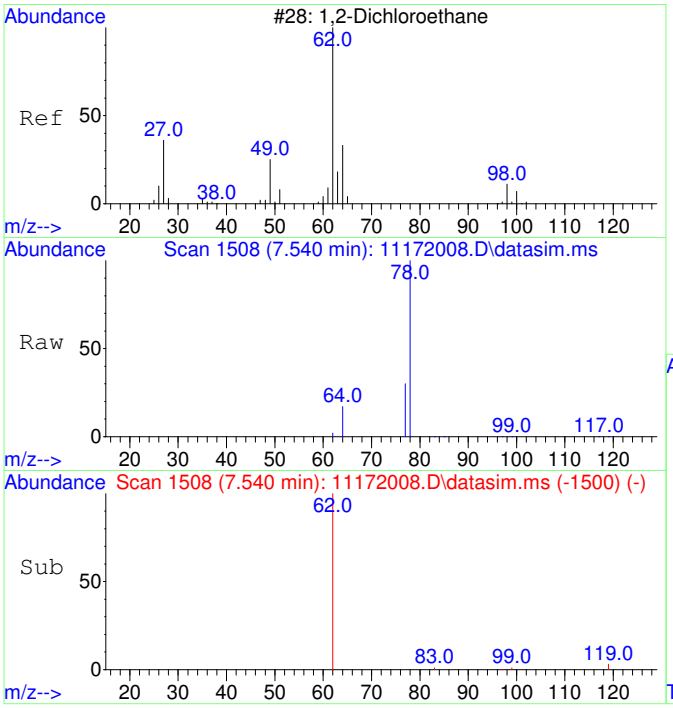


#9
Benzene
Concen: 100.98 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 78 Resp: 9310

Ion	Ratio	Lower	Upper
78	100		
77	58.3	0.0	53.2#

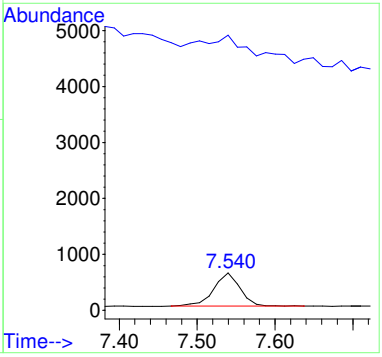


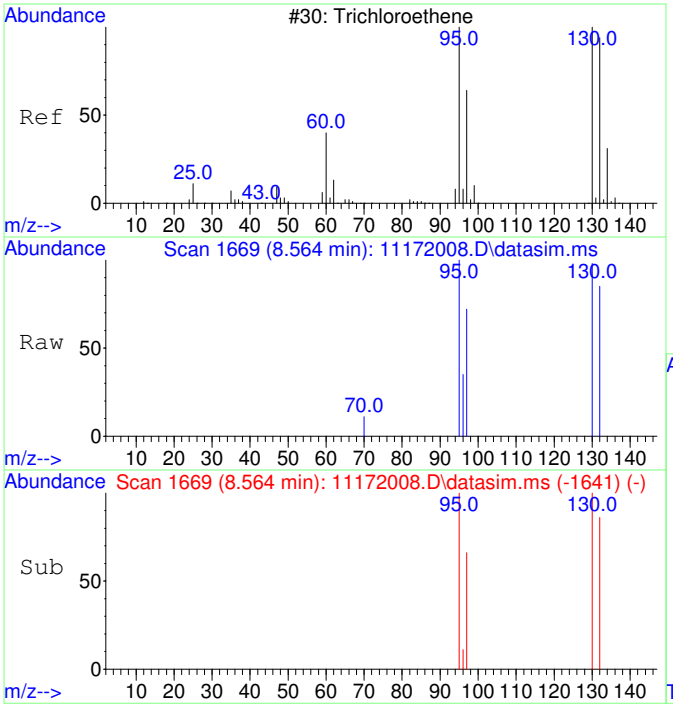


#10
1,2-Dichloroethane
Concen: 42.75 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 62 Resp: 1407

Ion	Ratio	Lower	Upper
62	100		
64	170.0	2.3	62.3#

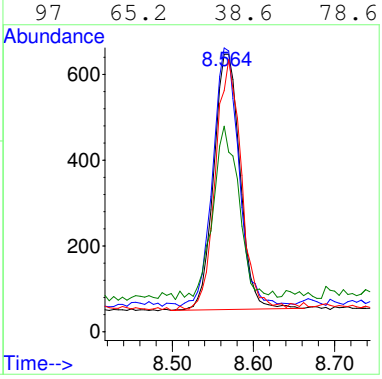


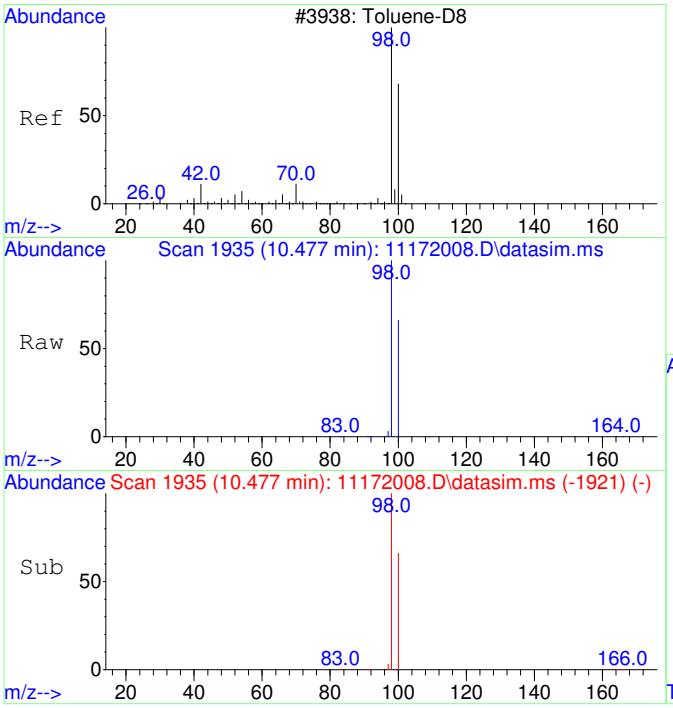


#11
Trichloroethene
Concen: 48.20 ug/L
RT: 8.564 min Scan# 1669
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:130 Resp: 1338

Ion	Ratio	Lower	Upper
130	100		
95	99.1	60.7	120.7
132	94.5	76.0	116.0
97	65.2	38.6	78.6

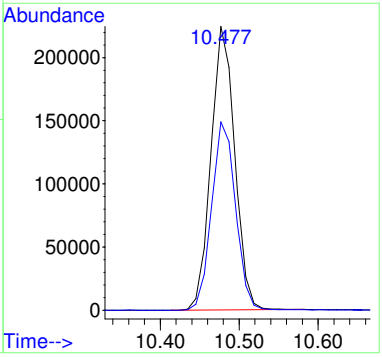


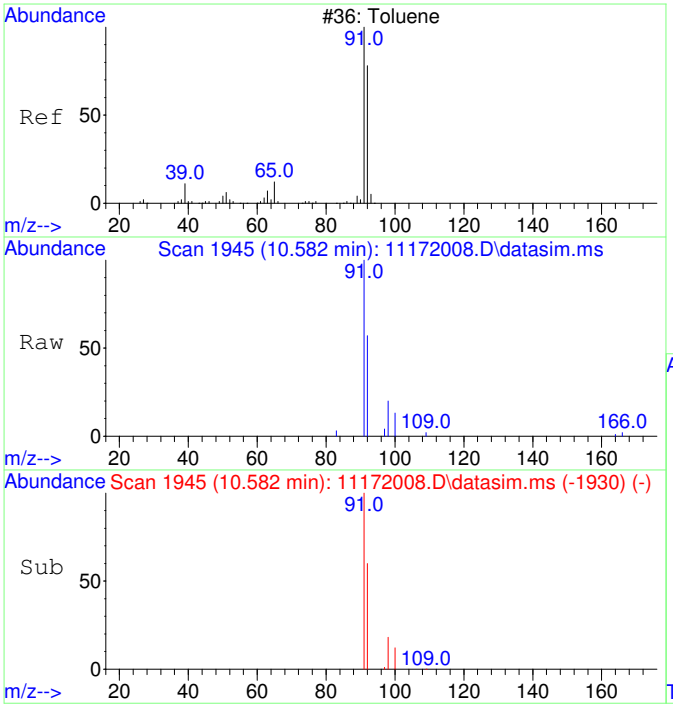


#12
Toluene-d8
Concen: 4410.05 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 98 Resp: 468484

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.1	97.1

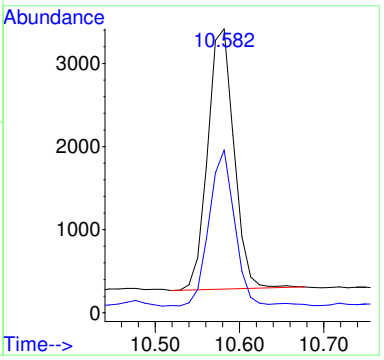


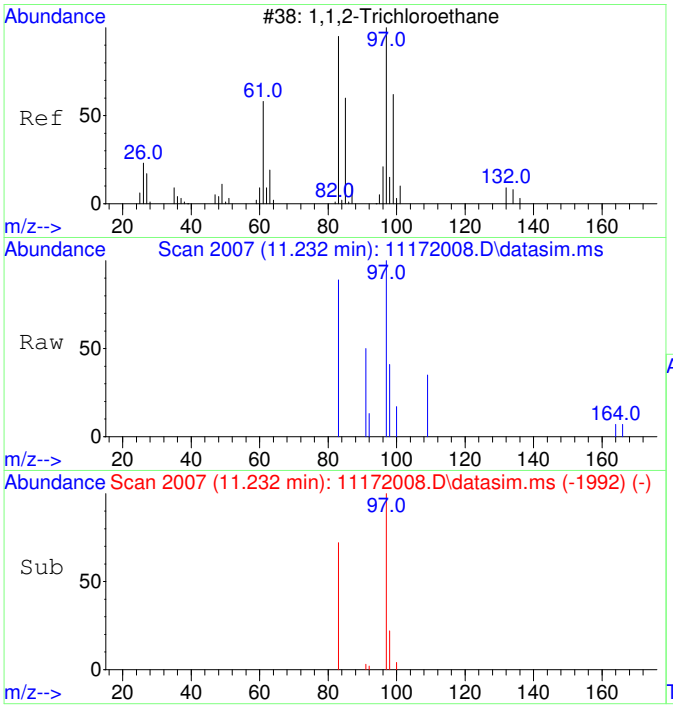


#13
Toluene
Concen: 50.16 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 6794

Ion	Ratio	Lower	Upper
91	100		
92	58.2	29.9	89.9

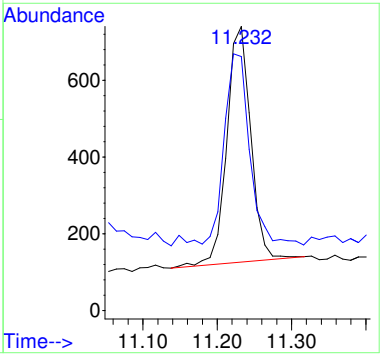


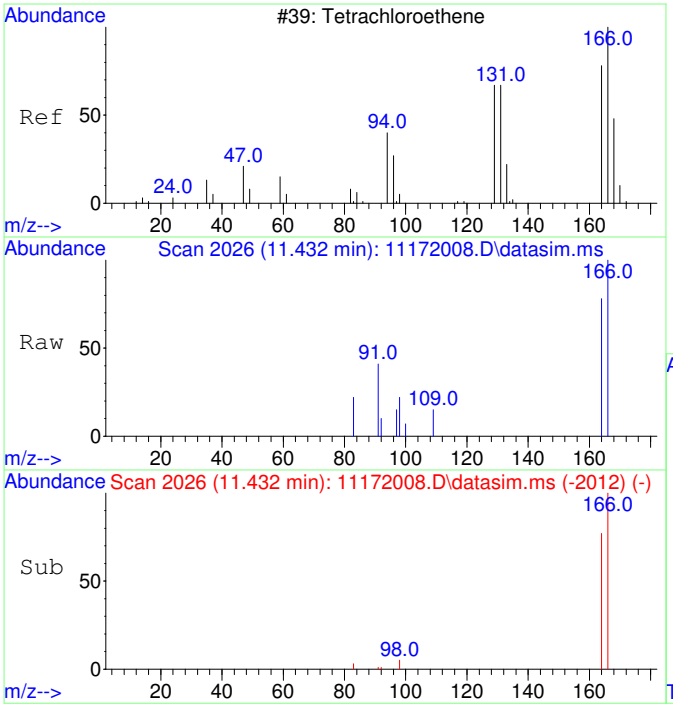


#14
1,1,2-Trichloroethane
Concen: 46.73 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 1379

Ion	Ratio	Lower	Upper
97	100		
83	84.3	51.2	111.2

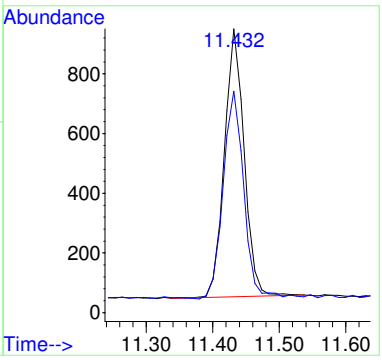


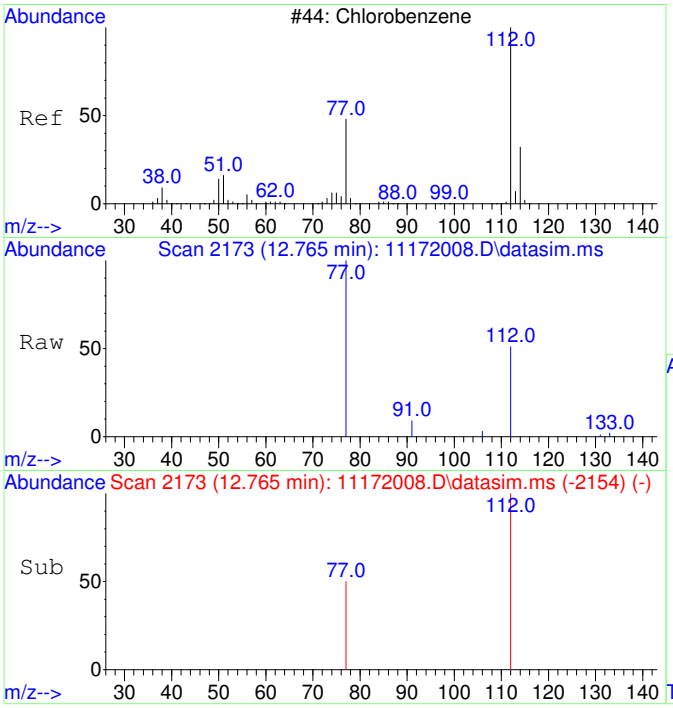


#15
Tetrachloroethene
Concen: 46.97 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:166 Resp: 1841

Ion	Ratio	Lower	Upper
166	100		
164	82.1	47.8	107.8

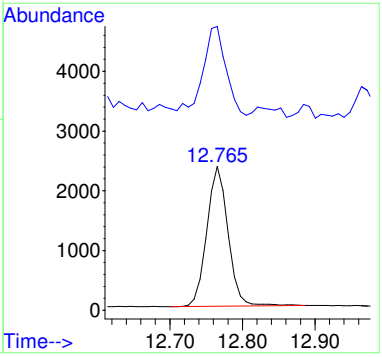


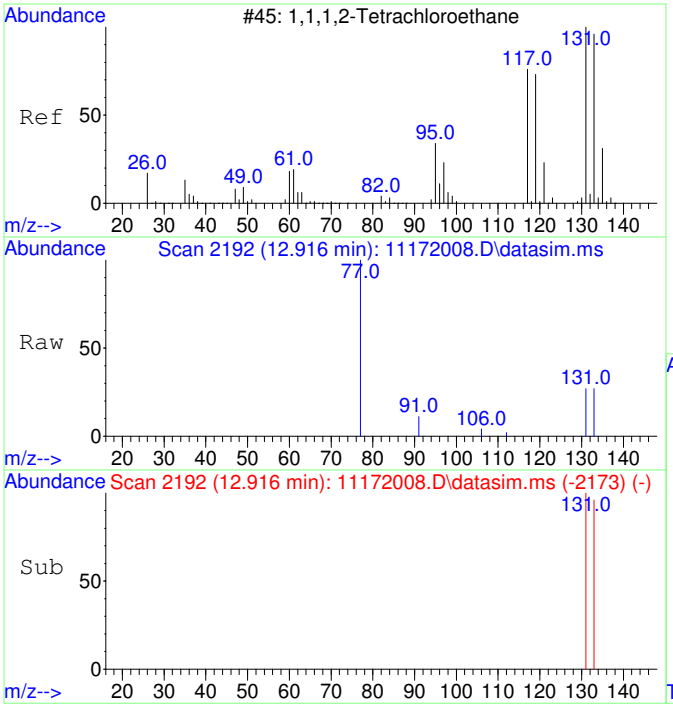


#16
Chlorobenzene
Concen: 49.25 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:112 Resp: 4776

Ion	Ratio	Lower	Upper
112	100		
77	68.7	23.6	83.6

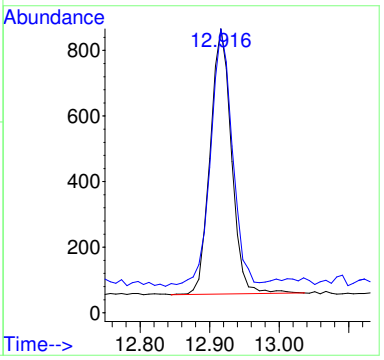


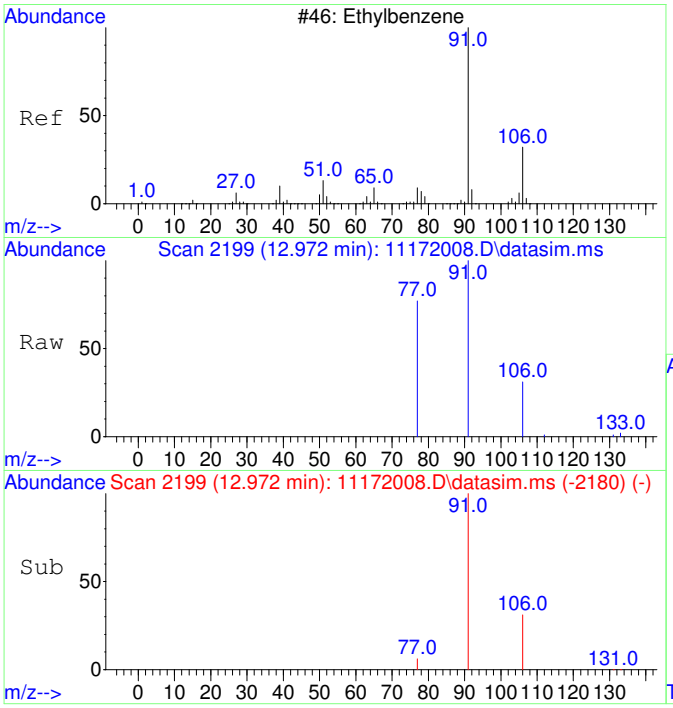


#17
1,1,1,2-Tetrachloroethane
Concen: 49.44 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:131 Resp: 1718

Ion	Ratio	Lower	Upper
131	100		
133	99.6	66.3	126.3

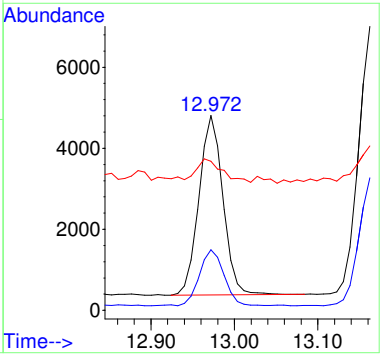


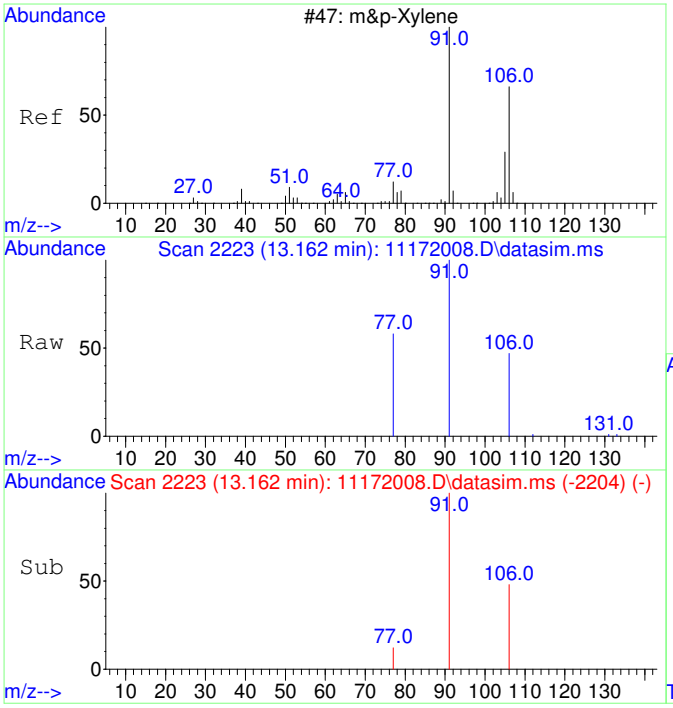


#18
Ethylbenzene
Concen: 53.67 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 8848

Ion	Ratio	Lower	Upper
91	100		
106	31.7	3.0	63.0
77	14.7	0.0	38.2

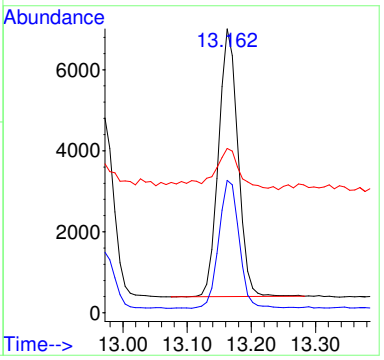


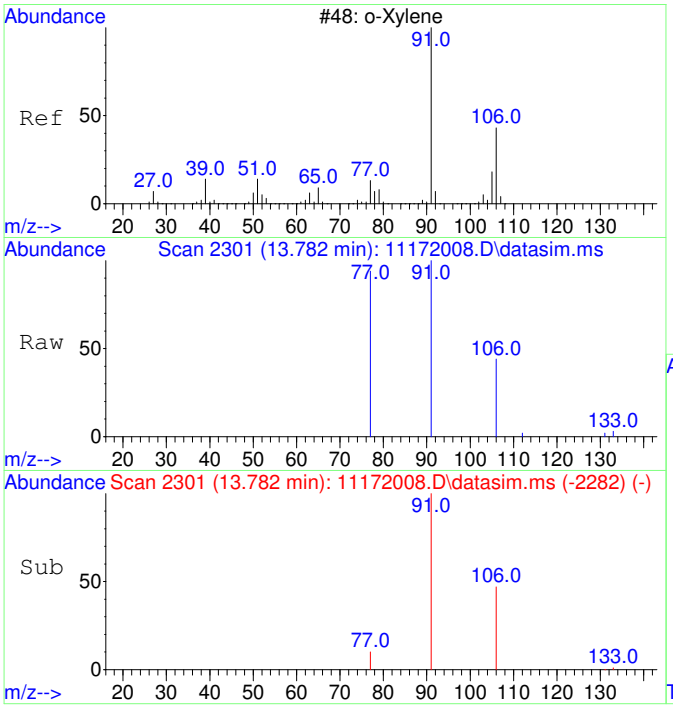


#19
m&p-Xylene
Concen: 107.19 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 13810

Ion	Ratio	Lower	Upper
91	100		
106	49.7	22.2	82.2
77	20.8	0.0	42.4

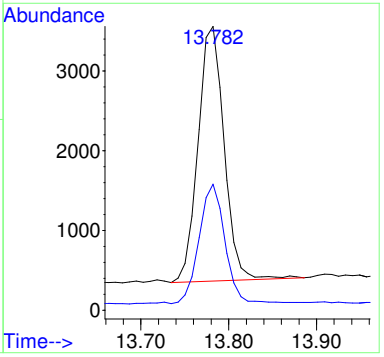


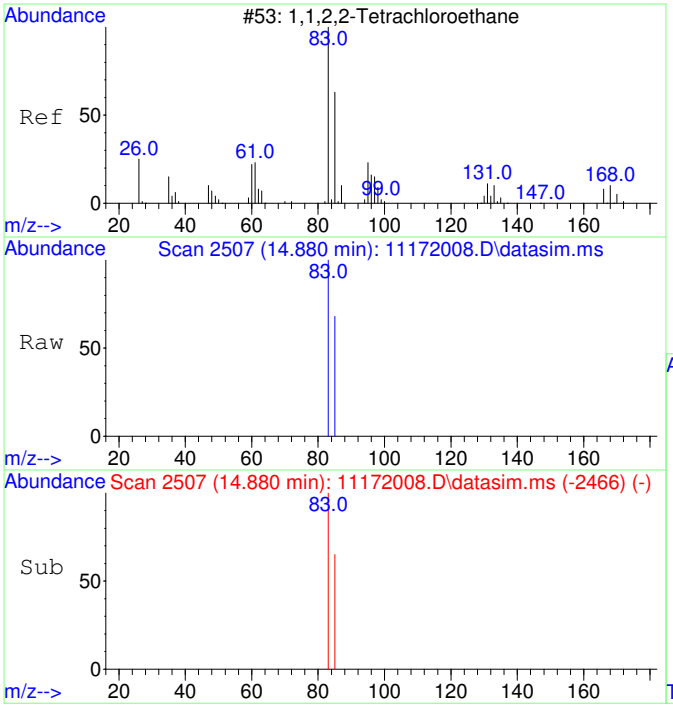


#20
o-Xylene
Concen: 47.96 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 6602

Ion	Ratio	Lower	Upper
91	100		
106	47.6	19.2	79.2

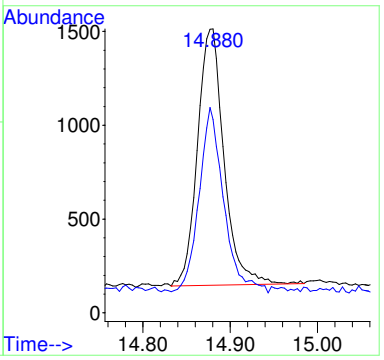


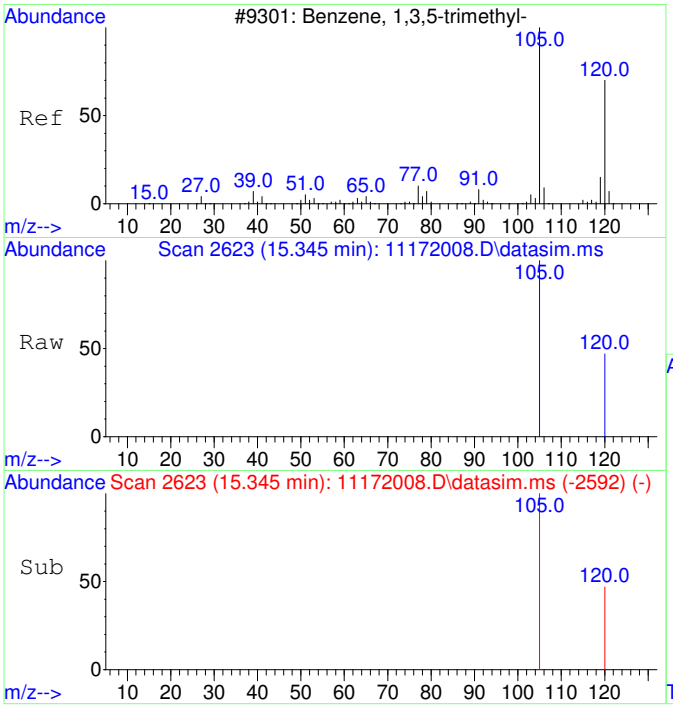


#21
1,1,2,2-Tetrachloroethane
Concen: 47.19 ug/L
RT: 14.880 min Scan# 2507
Delta R.T. 0.004 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 2879

Ion	Ratio	Lower	Upper
83	100		
85	67.1	34.8	94.8

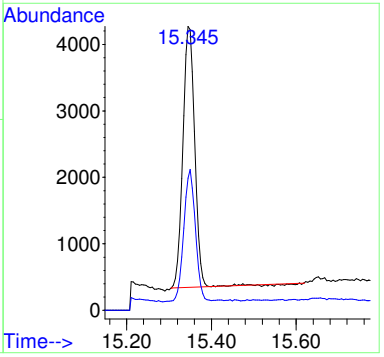


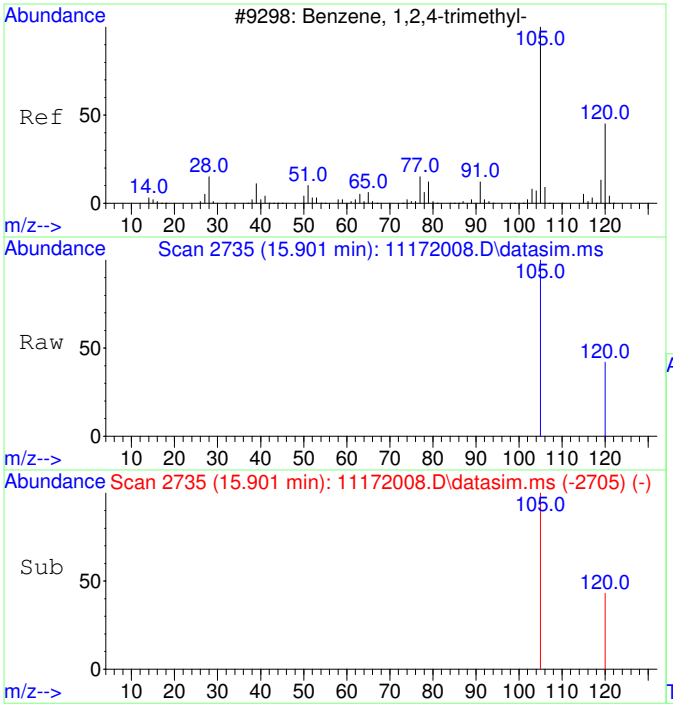


#22
1,3,5-Trimethylbenzene
Concen: 51.50 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 7546

Ion	Ratio	Lower	Upper
105	100		
120	49.3	21.1	81.1

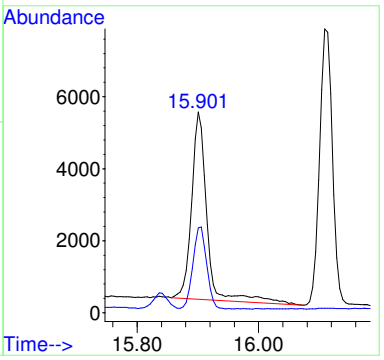


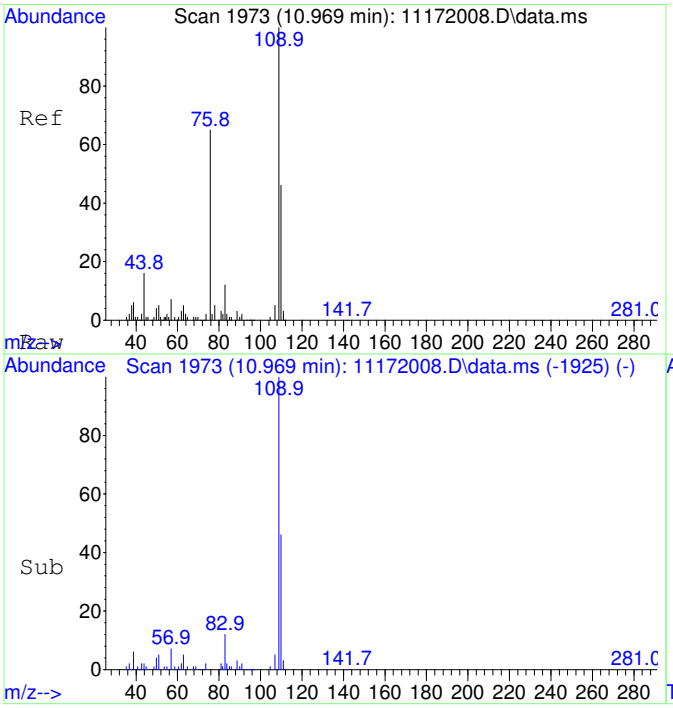


#23
1,2,4-Trimethylbenzene
Concen: 60.04 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 9137

Ion	Ratio	Lower	Upper
105	100		
120	38.7	17.2	77.2

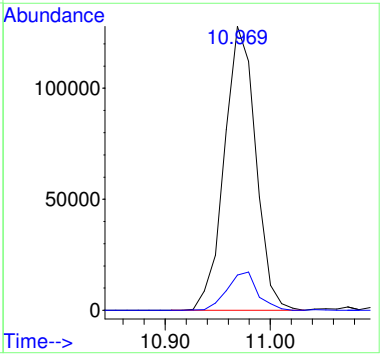


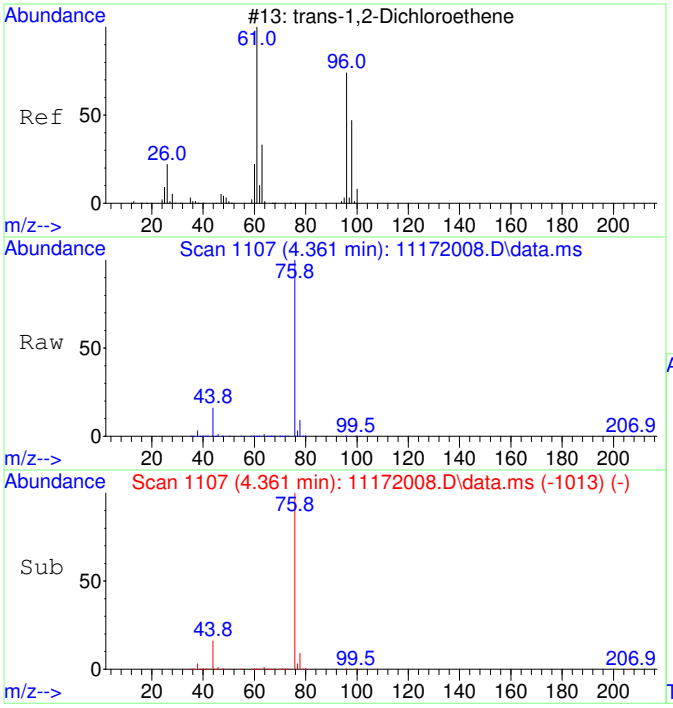


#25
2-Fluorotoluene SCAN
Concen: 5019.15 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:109 Resp: 265508

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.8

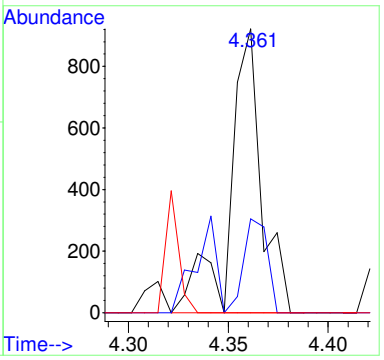


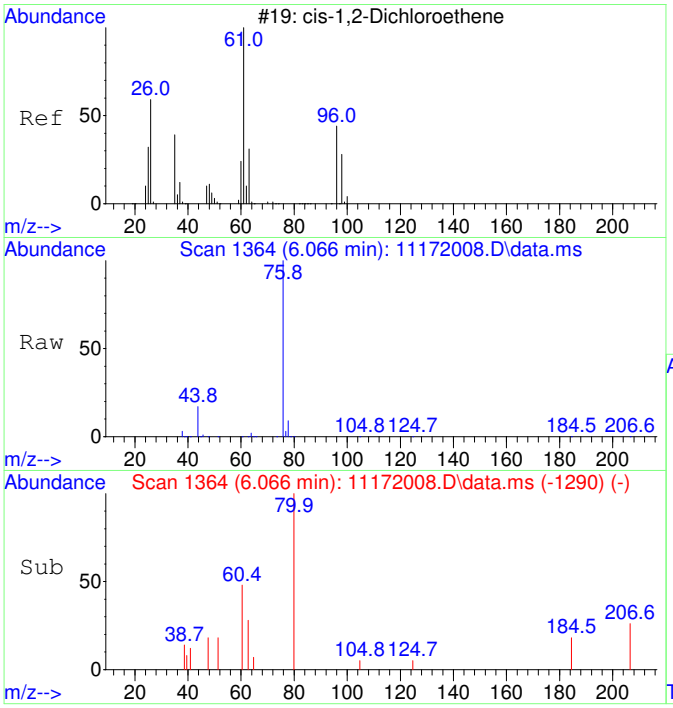


#27
trans-1,2-Dichloroethene SCAN
Concen: 72.80 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. 0.013 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 1012

Ion	Ratio	Lower	Upper
61	100		
96	25.0	49.0	109.0#
98	0.0	20.5	80.5#

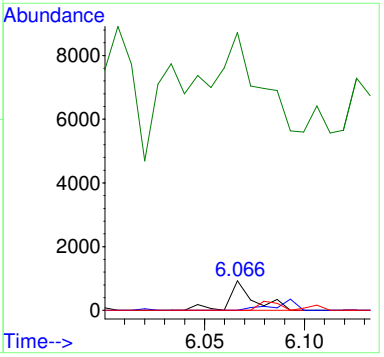


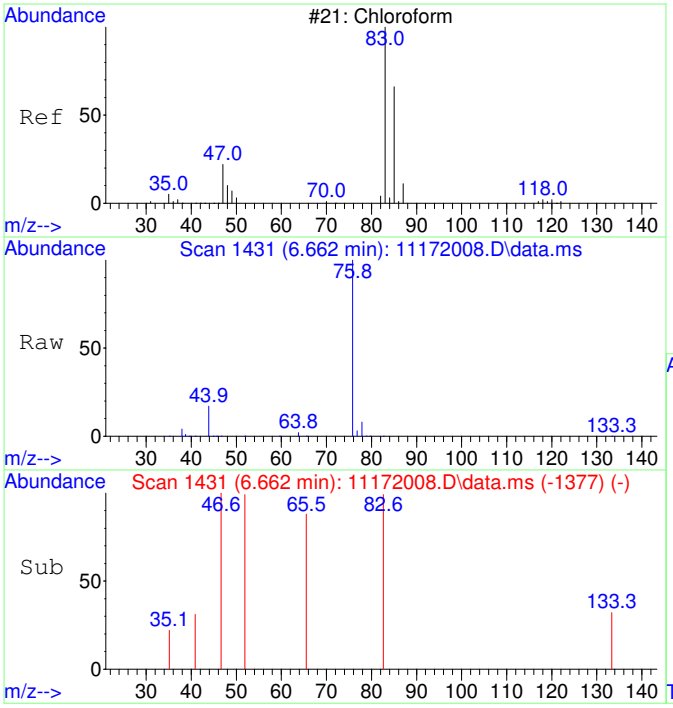


#29
cis-1,2-Dichloroethene SCAN
Concen: 45.48 ug/L
RT: 6.066 min Scan# 1364
Delta R.T. -0.007 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 61 Resp: 784

Ion	Ratio	Lower	Upper
61	100		
96	0.0	39.9	99.9#
98	0.0	13.5	73.5#
64	1243.8	4.5	64.5#

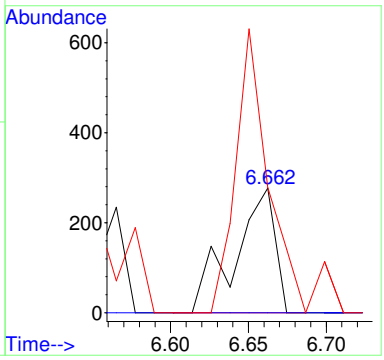


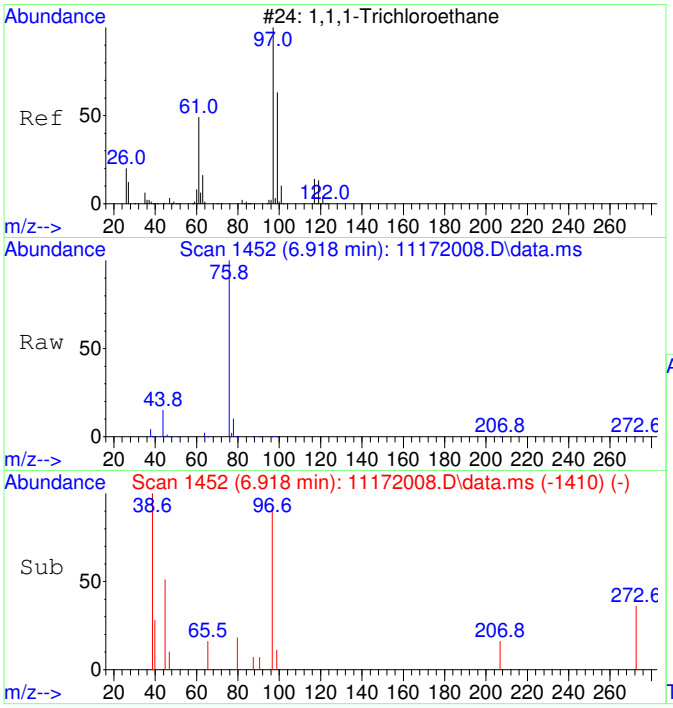


#30
Chloroform SCAN
Concen: 26.90 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.012 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 503

Ion	Ratio	Lower	Upper
83	100		
85	0.0	34.6	94.6#
47	198.0	0.0	53.4#

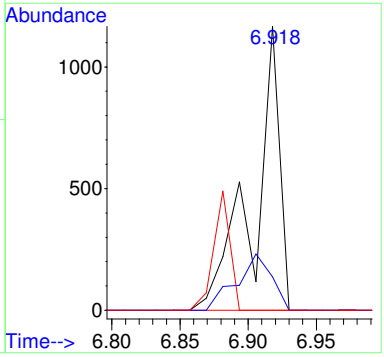


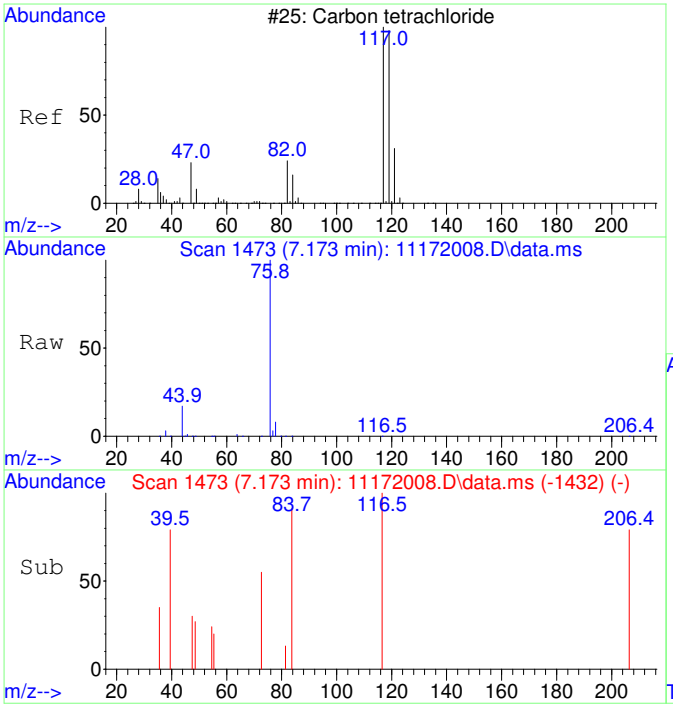


#31
1,1,1-Trichloroethane SCAN
Concen: 89.22 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.012 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 1520

Ion	Ratio	Lower	Upper
97	100		
99	27.4	43.6	103.6#
61	0.0	18.0	78.0#

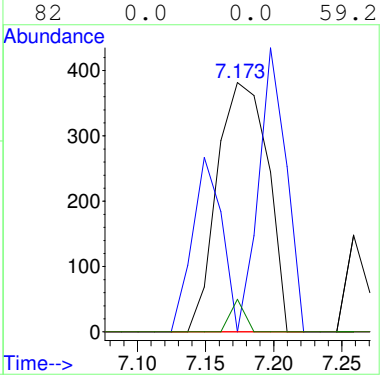


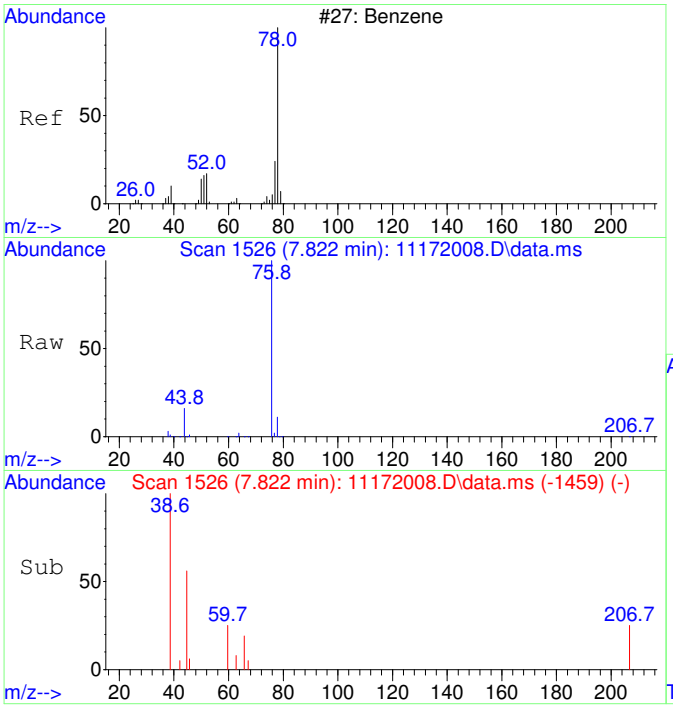


#32
Carbon tetrachloride SCAN
Concen: 55.48 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:117 Resp: 986

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

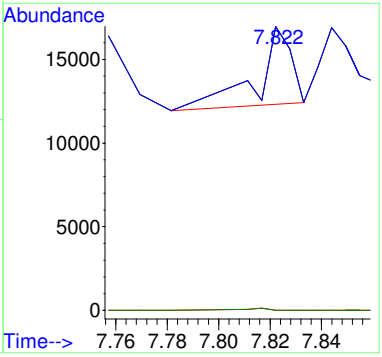


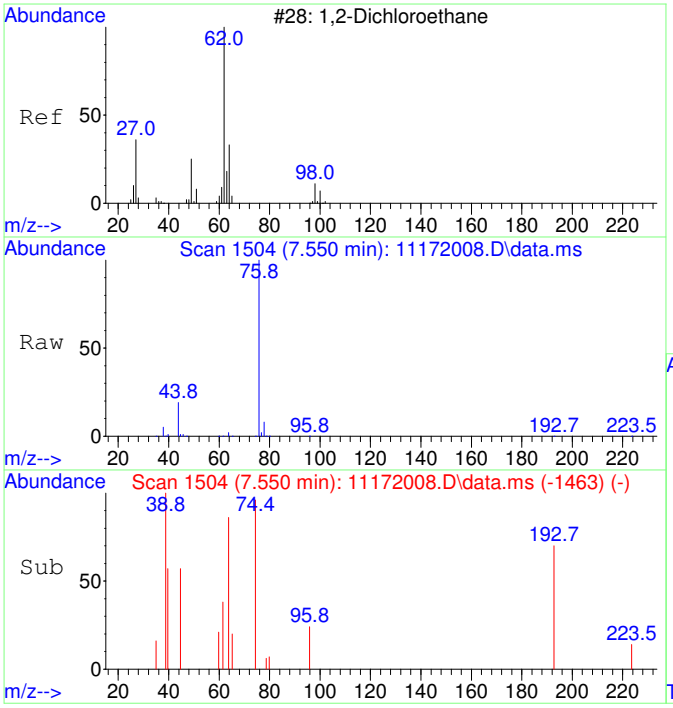


#33
Benzene SCAN
Concen: 137.18 ug/L
RT: 7.822 min Scan# 1526
Delta R.T. 0.320 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 78 Resp: 6435

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	2.0	0.0	47.9
51	2.0	0.0	44.1

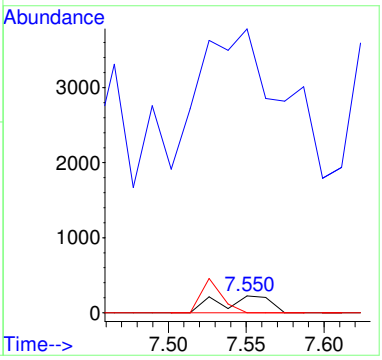


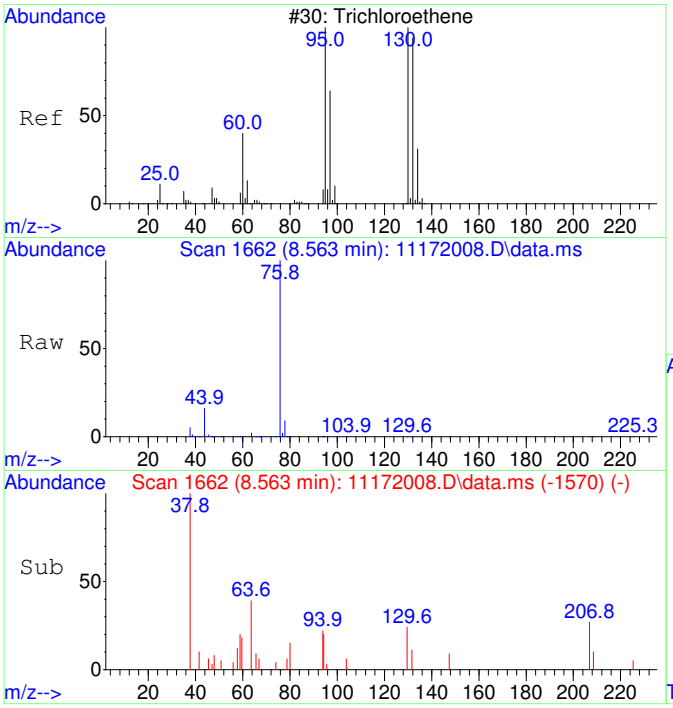


#34
1,2-Dichloroethane SCAN
Concen: 29.27 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 62 Resp: 507

Ion	Ratio	Lower	Upper
62	100		
64	1336.5	5.2	65.2#
49	0.0	3.9	63.9#

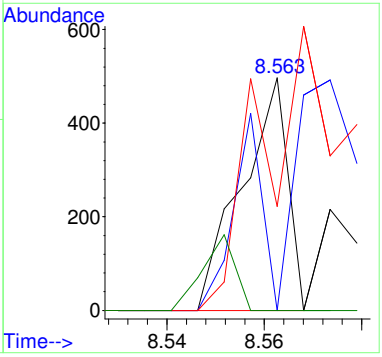


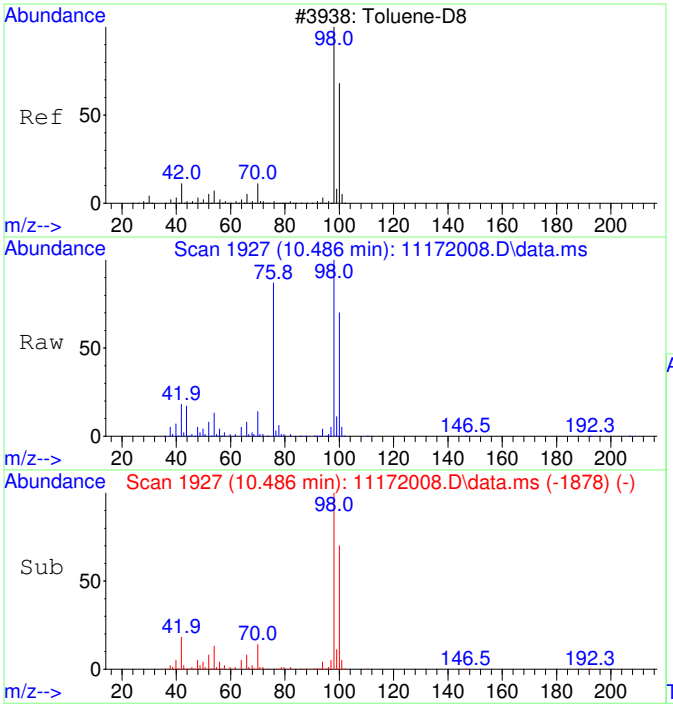


#35
Trichloroethene SCAN
Concen: 25.29 ug/L
RT: 8.563 min Scan# 1662
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:130 Resp: 326

Ion	Ratio	Lower	Upper
130	100		
95	0.0	60.5	120.5#
132	259.2	59.6	119.6#
97	23.3	28.2	88.2#

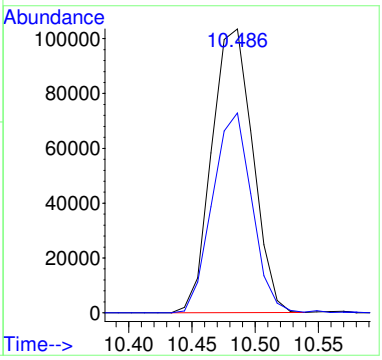


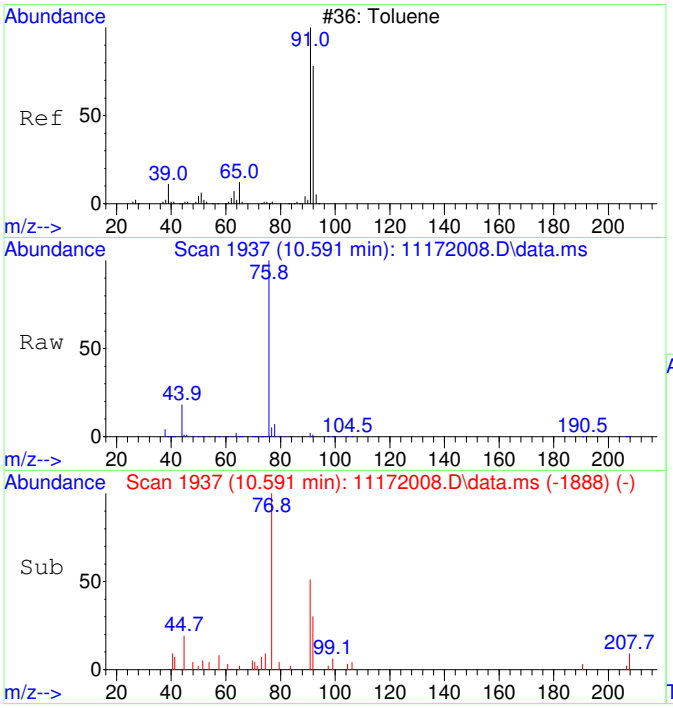


#36
Toluene-d8 SCAN
Concen: 4525.85 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 98 Resp: 234139

Ion	Ratio	Lower	Upper
98	100		
100	68.0	40.0	100.0

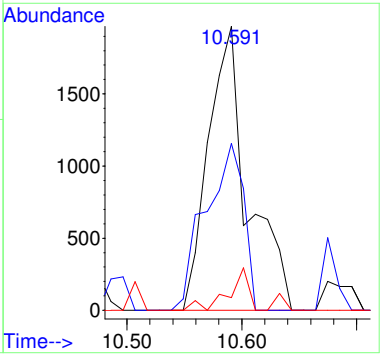


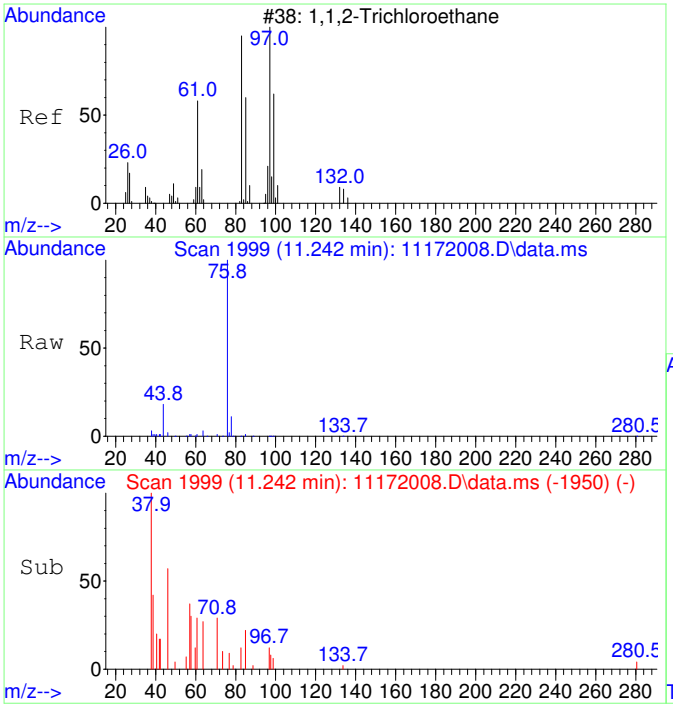


#37
Toluene SCAN
Concen: 70.94 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 4700

Ion	Ratio	Lower	Upper
91	100		
92	57.1	28.3	88.3
65	7.5	0.0	41.0

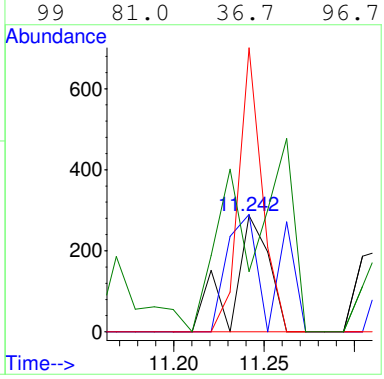


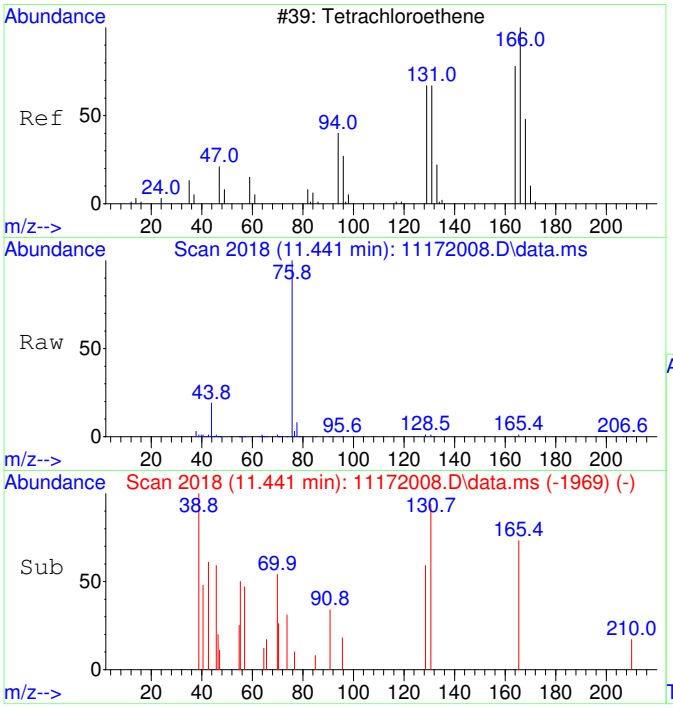


#38
1,1,2-Trichloroethane SCAN
Concen: 26.90 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 97 Resp: 400

Ion	Ratio	Lower	Upper
97	100		
83	125.5	57.7	117.7#
61	158.5	32.1	92.1#
99	81.0	36.7	96.7

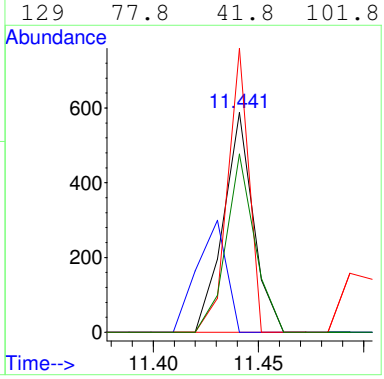


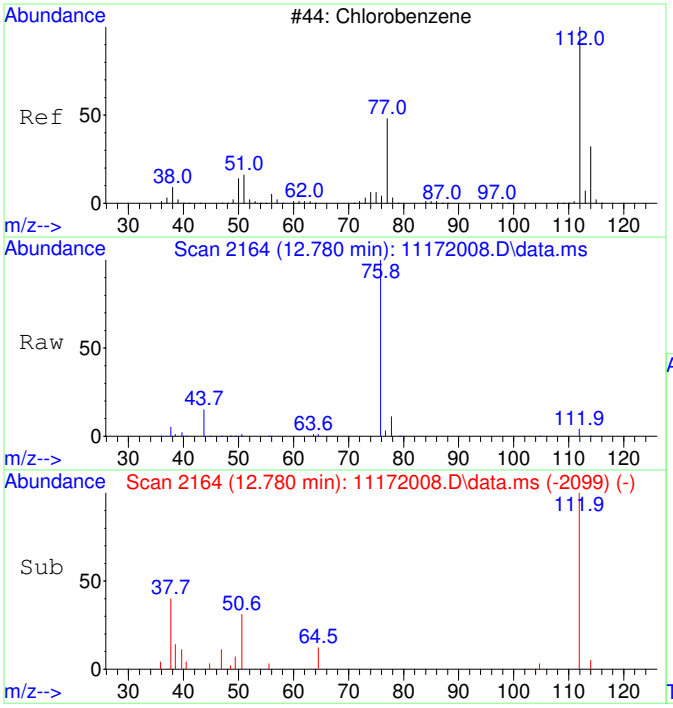


#39
Tetrachloroethene SCAN
Concen: 36.56 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:166 Resp: 582

Ion	Ratio	Lower	Upper
166	100		
164	50.2	50.9	110.9#
131	92.1	38.7	98.7
129	77.8	41.8	101.8

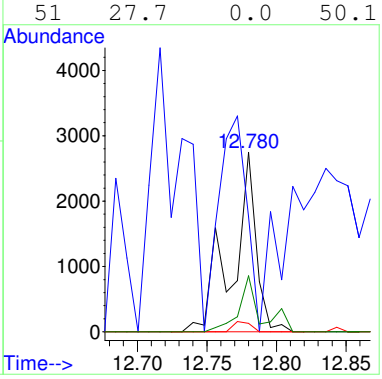


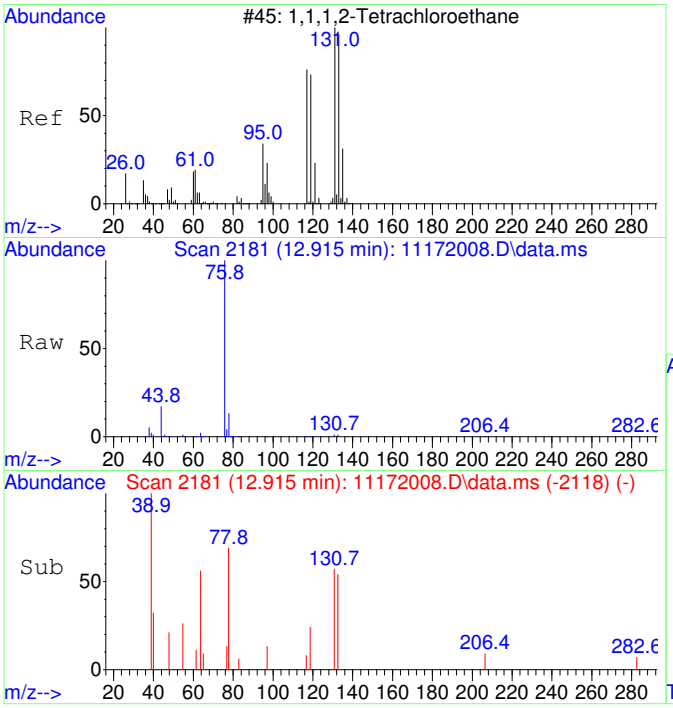


#40
Chlorobenzene SCAN
Concen: 72.83 ug/L
RT: 12.780 min Scan# 2164
Delta R.T. 0.016 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:112 Resp: 3297

Ion	Ratio	Lower	Upper
112	100		
77	139.8	28.2	88.2#
114	4.2	2.3	62.3
51	27.7	0.0	50.1

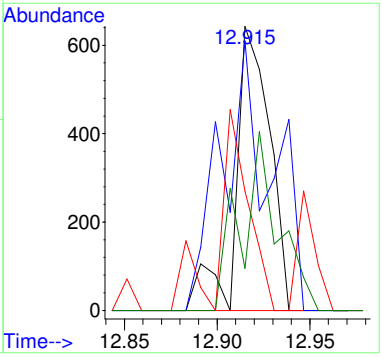


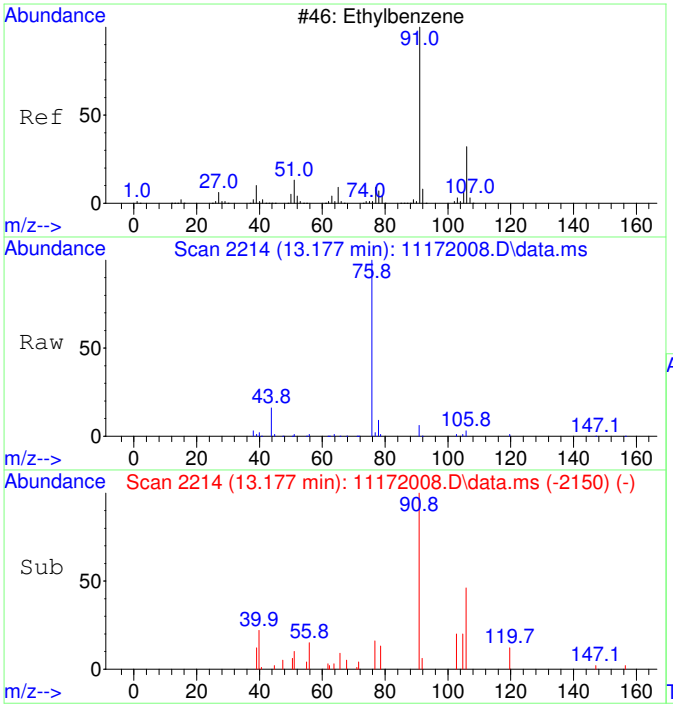


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 49.12 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:131 Resp: 823

Ion	Ratio	Lower	Upper
131	100		
133	136.6	66.9	126.9#
119	62.3	40.4	100.4
117	68.4	35.1	95.1

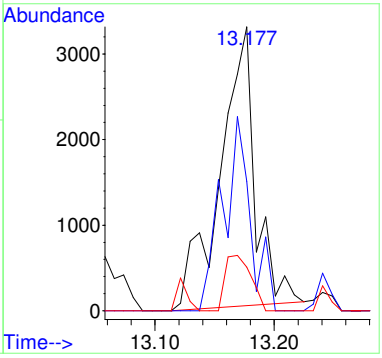


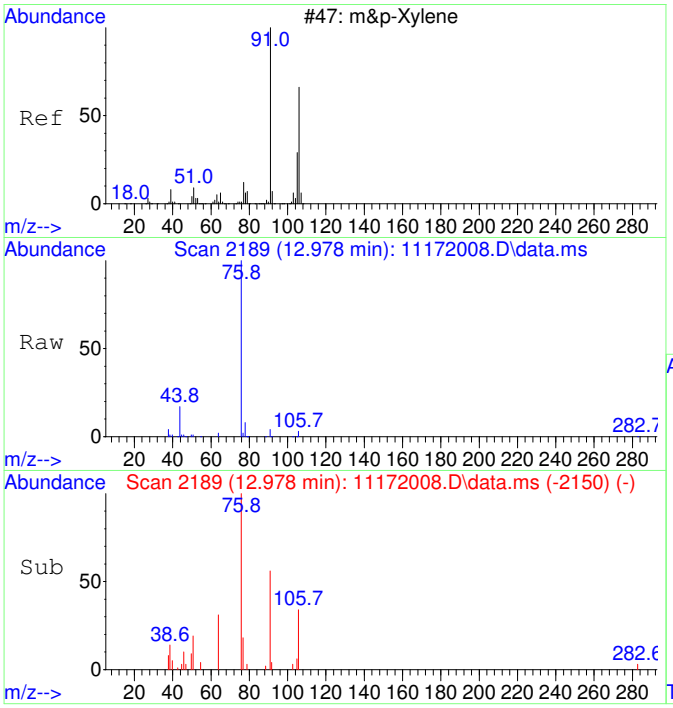


#42
Ethylbenzene SCAN
Concen: 55.48 ug/L
RT: 13.177 min Scan# 2214
Delta R.T. 0.008 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 6696

Ion	Ratio	Lower	Upper
91	100		
106	55.6	23.1	83.1
51	14.6	0.0	40.1

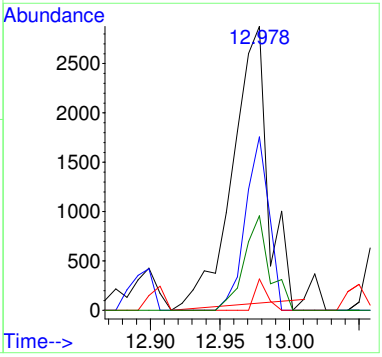


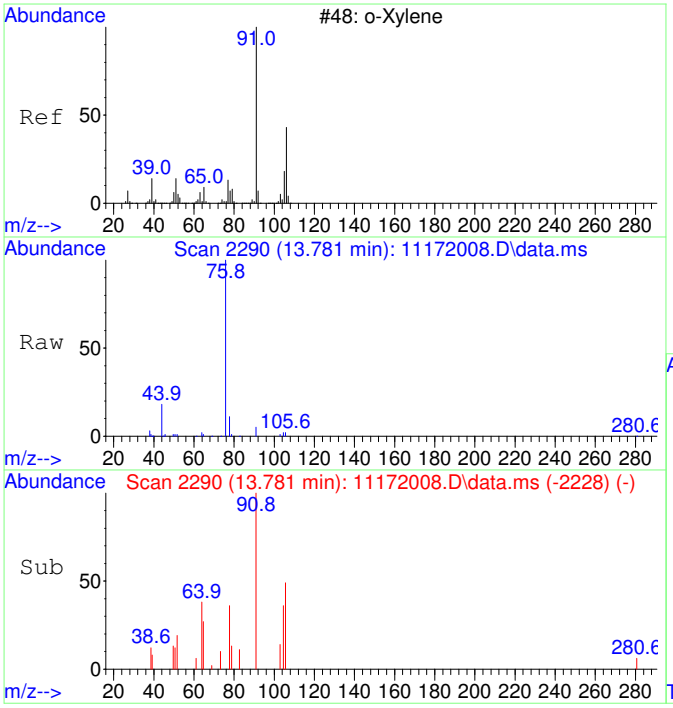


#43
m&p-Xylene SCAN
Concen: 40.39 ug/L
RT: 12.978 min Scan# 2189
Delta R.T. -0.191 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 4875

Ion	Ratio	Lower	Upper
91	100		
106	42.5	23.1	83.1
105	4.0	0.0	54.7
51	25.1	0.0	40.1

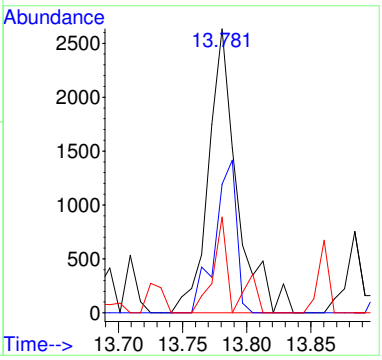


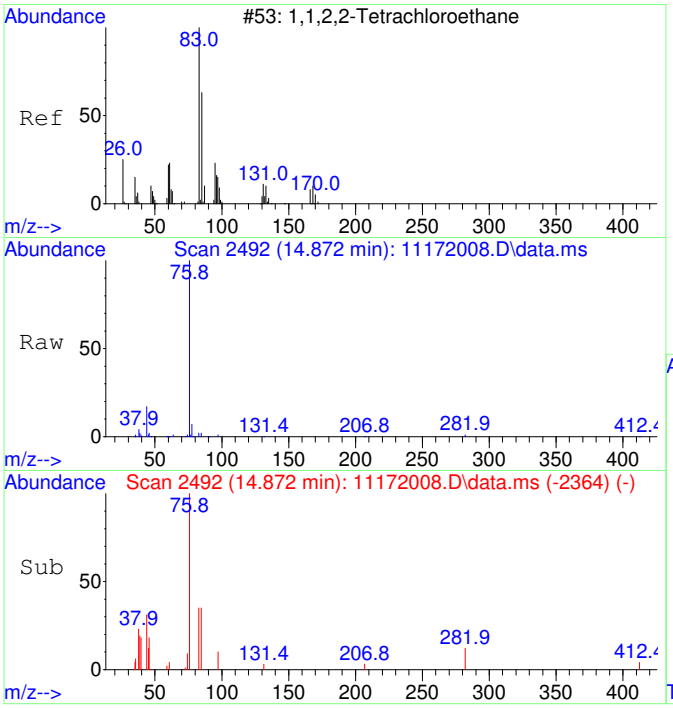


#44
o-Xylene SCAN
Concen: 63.04 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.008 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 91 Resp: 4073

Ion	Ratio	Lower	Upper
91	100		
106	40.4	18.0	78.0
105	21.8	0.0	56.6

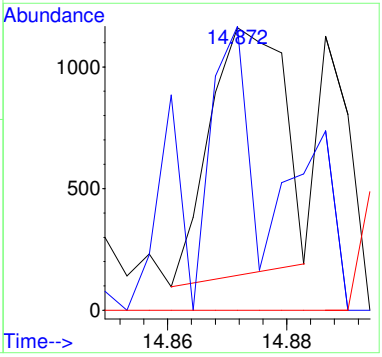


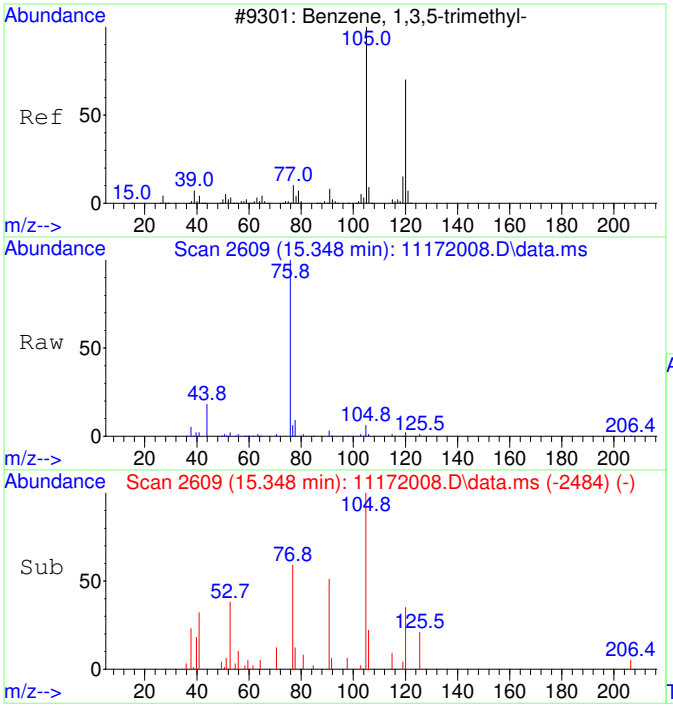


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 27.74 ug/L
RT: 14.872 min Scan# 2492
Delta R.T. -0.000 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion: 83 Resp: 874

Ion	Ratio	Lower	Upper
83	100		
85	133.1	35.9	95.9#
95	0.0	0.0	47.4

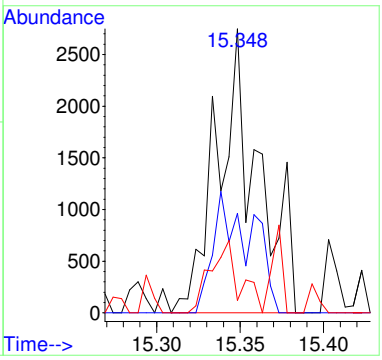


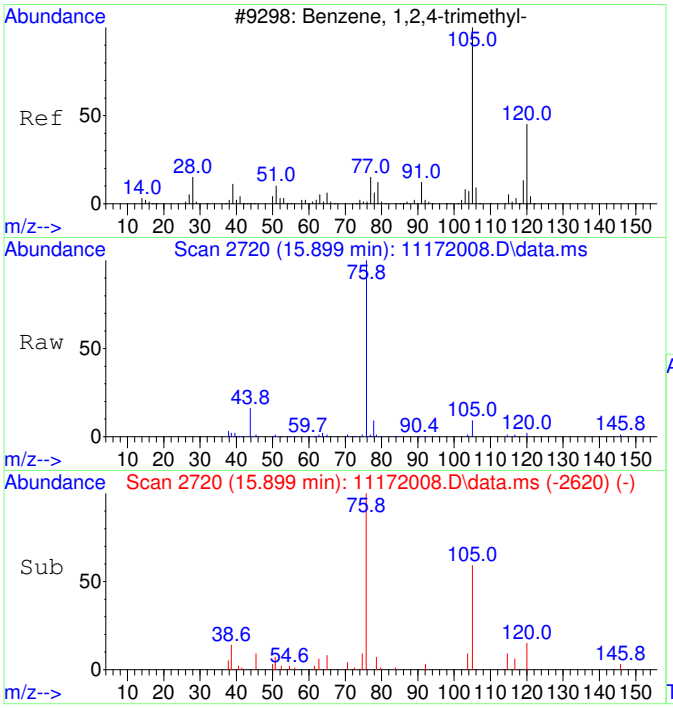


#46
1,3,5-Trimethylbenzene SCAN
Concen: 68.69 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 4677

Ion	Ratio	Lower	Upper
105	100		
120	39.6	18.3	78.3
119	18.2	0.0	43.1

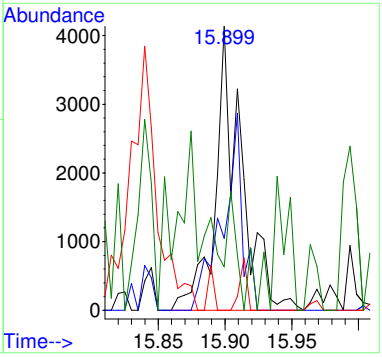


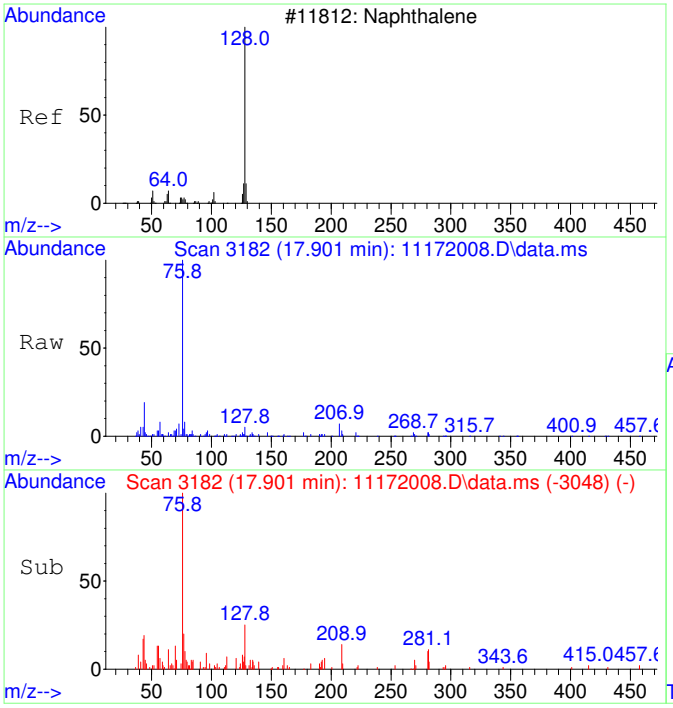


#47
1,2,4-Trimethylbenzene SCAN
Concen: 80.53 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.005 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:105 Resp: 5611

Ion	Ratio	Lower	Upper
105	100		
120	53.3	16.9	76.9
119	5.1	0.0	41.9
77	4.8	0.0	42.3

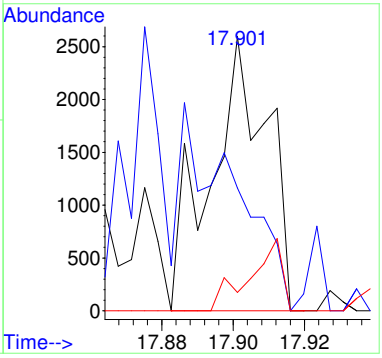




#48
Naphthalene SCAN
Concen: 27.23 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. -0.004 min
Lab File: 11172008.D
Acq: 17 Nov 2020 10:40

Tgt Ion:128 Resp: 2871

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	44.0
129	14.9	0.0	40.8



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 20316C
Client: California Site Cleanup Section 3
Project: MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID: AG5975CV
Calibration: 2008017
Sequence: S20K066

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S20K066-CRL1	1,1-Dichloroethene	50.0	45.7	91	ug/L	60 - 140
	trans-1,2-Dichloroethene	50.0	44.8	90	ug/L	60 - 140
	1,1-Dichloroethane	50.0	46.4	93	ug/L	60 - 140
	cis-1,2-Dichloroethene	50.0	46.9	94	ug/L	60 - 140
	Chloroform	50.0	45.0	90	ug/L	60 - 140
	Trichloroethene	50.0	48.8	98	ug/L	60 - 140
	Tetrachloroethene	50.0	49.2	98	ug/L	60 - 140
	Toluene-d8	50.0	49.7	99	ug/L	60 - 140

QLS REPORT

Instrument Name: AG5975C
Sample Name: S20K066-CRL1
Misc Info: 2030073 0.05 mg/L
Date Acquired: 11/17/20 9:05
QLast Update: Mon Nov 16 10:20:51 2020
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.970	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.086	50.0	45.71	91%	60	140	pass
3)	trans-1,2-Dichloroethene	4.343	50.0	44.80	90%	60	140	pass
4)	1,1-Dichloroethane	5.066	50.0	46.45	93%	60	140	pass
5)	cis-1,2-Dichloroethene	6.074	50.0	46.90	94%	60	140	pass
6)	Chloroform	6.639	50.0	45.02	90%	60	140	pass
7)	1,1,1-Trichloroethane	6.907	50.0	44.16	88%	60	140	pass
8)	Carbon tetrachloride	7.175	50.0	44.28	89%	60	140	pass
10)	1,2-Dichloroethane	7.540	50.0	44.94	90%	60	140	pass
11)	Trichloroethene	8.564	50.0	48.78	98%	60	140	pass
12)	Toluene-d8	10.477	50.0	49.67	99%	60	140	pass
13)	Toluene	10.571	50.0	50.71	101%	60	140	pass
14)	1,1,2-Trichloroethane	11.222	50.0	50.54	101%	60	140	pass
15)	Tetrachloroethene	11.432	50.0	49.22	98%	60	140	pass
16)	Chlorobenzene	12.765	50.0	52.20	104%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.916	50.0	50.63	101%	60	140	pass
18)	Ethylbenzene	12.972	50.0	52.93	106%	60	140	pass
19)	m&p-Xylene	13.163	100.0	105.54	106%	60	140	pass
20)	o-Xylene	13.782	50.0	52.20	104%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.877	50.0	53.48	107%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.345	50.0	56.53	113%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.901	50.0	58.58	117%	60	140	pass
24)	Naphthalene	17.903	50.0	50.79	102%	60	140	pass

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172004.D
Acq On : 17 Nov 2020 9:05
InstName : AG5975C
Operator : TD
Sample : S20K066-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 17 09:24:41 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

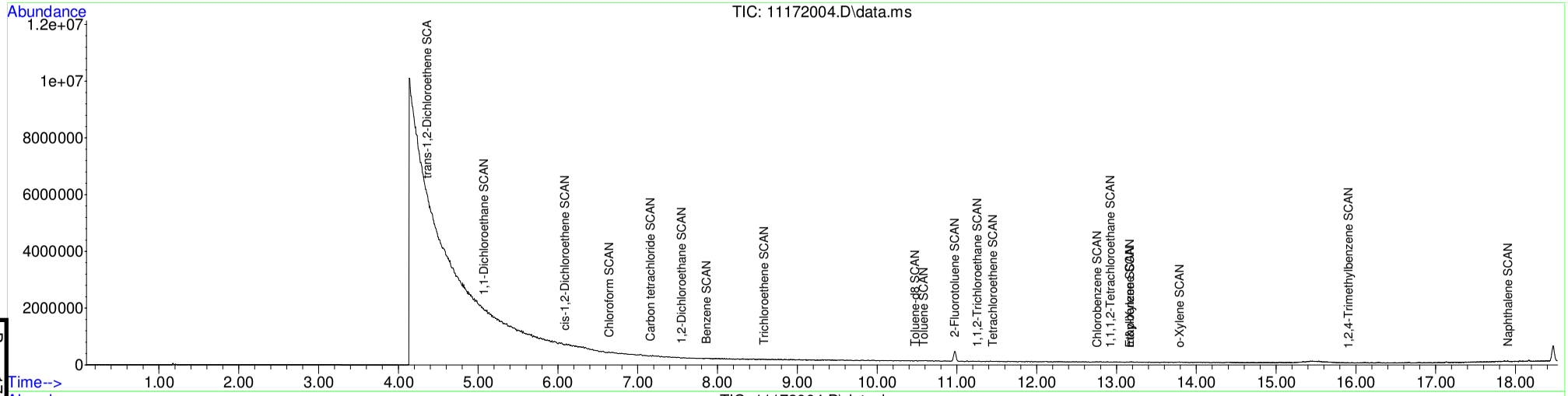
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	604274	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	5876	49.67	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	1597	66.18	ug/L	83
3] trans-1,2-Dichloroethene	4.356	61	1249	44.80	ug/L	60
4] 1,1-Dichloroethane	5.079	63	1612	46.45	ug/L #	30
5] cis-1,2-Dichloroethene	6.081	61	1718	46.90	ug/L	99
6] Chloroform	6.652	83	1688	45.02	ug/L	93
7] 1,1,1-Trichloroethane	6.907	97	1798	44.16	ug/L	96
8] Carbon tetrachloride	7.187	117	1697	44.28	ug/L	99
9] Benzene	7.503	78	5827	56.75	ug/L	59
10] 1,2-Dichloroethane	7.552	62	1647	44.94	ug/L #	1
11] Trichloroethene	8.569	130	1508	48.78	ug/L	93
13] Toluene	10.582	91	7647	50.71	ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	1661	50.54	ug/L	97
15] Tetrachloroethene	11.432	166	2148	49.22	ug/L	98
16] Chlorobenzene	12.765	112	5637	52.20	ug/L	84
17] 1,1,1,2-Tetrachloroethane	12.916	131	1959	50.63	ug/L	100
18] Ethylbenzene	12.972	91	9717	52.93	ug/L	95
19] m&p-Xylene	13.162	91	15142	105.54	ug/L	95
20] o-Xylene	13.782	91	8002	52.20	ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.877	83	3633	53.48	ug/L	99
22] 1,3,5-Trimethylbenzene	15.350	105	9223	56.53	ug/L	95
23] 1,2,4-Trimethylbenzene	15.901	105	9927	58.58	ug/L	90
24] Naphthalene	17.904	128	13603	50.79	ug/L	98
25) 2-Fluorotoluene SCAN	10.969	109	298529	5067.92	ug/L	98
27) trans-1,2-Dichloroethe...	4.355	61	681	43.99	ug/L #	51
28) 1,1-Dichloroethane SCAN	5.071	63	656	36.62	ug/L #	14
29) cis-1,2-Dichloroethene...	6.080	61	433	22.56	ug/L #	51
30) Chloroform SCAN	6.638	83	813	39.05	ug/L	75
32) Carbon tetrachloride SCAN	7.161	117	1306	65.99	ug/L #	15
33) Benzene SCAN	7.855	78	4583	87.74	ug/L	93
34) 1,2-Dichloroethane SCAN	7.550	62	763	39.56	ug/L #	45
35) Trichloroethene SCAN	8.579	130	502	34.97	ug/L #	57
36) Toluene-d8 SCAN	10.475	98	4360	75.68	ug/L #	59
37) Toluene SCAN	10.580	91	5041	68.33	ug/L	64
38) 1,1,2-Trichloroethane ...	11.252	97	1462	88.29	ug/L #	63
39) Tetrachloroethene SCAN	11.441	166	735	41.47	ug/L #	53
40) Chlorobenzene SCAN	12.756	112	2846	56.45	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.923	131	742	39.77	ug/L #	36
42) Ethylbenzene SCAN	13.169	91	7246	53.91	ug/L	97
43) m&p-Xylene SCAN	13.169	91	7246	53.91	ug/L	98
44) o-Xylene SCAN	13.789	91	4279	59.48	ug/L	68
47) 1,2,4-Trimethylbenzene...	15.904	105	5124	66.05	ug/L #	39
48) Naphthalene SCAN	17.902	128	5823	49.60	ug/L	86

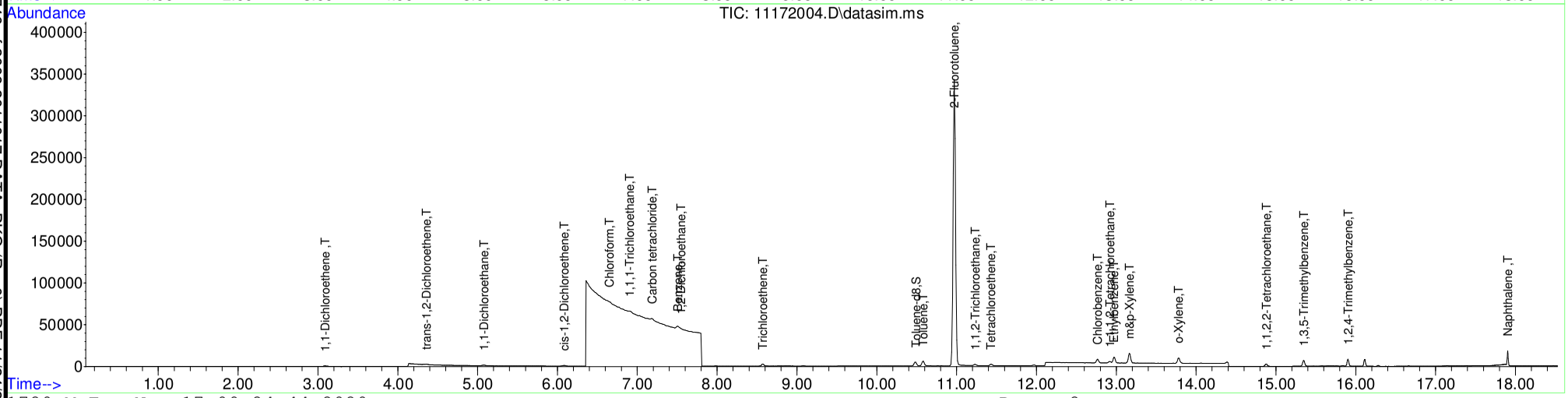
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172004.D
Acq On : 17 Nov 2020 9:05
InstName : AG5975C
Operator : TD
Sample : S20K066-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 17 09:24:41 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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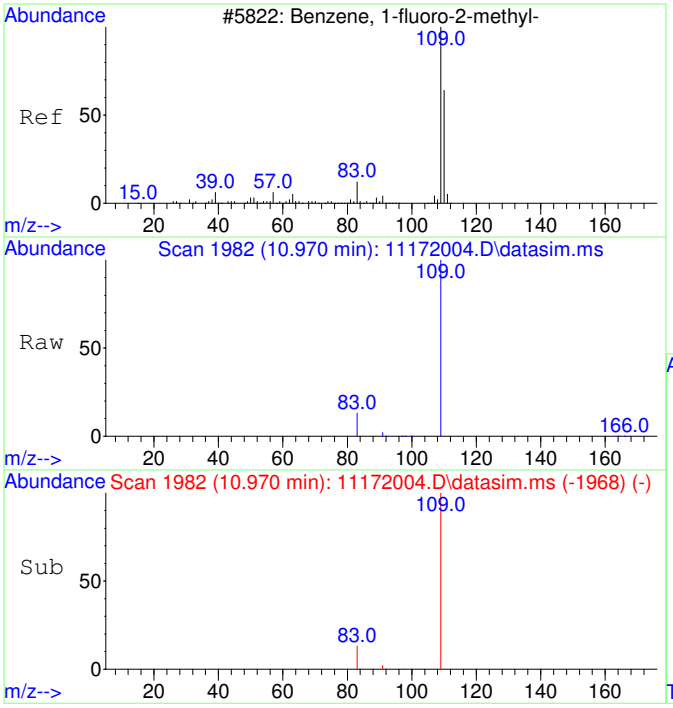
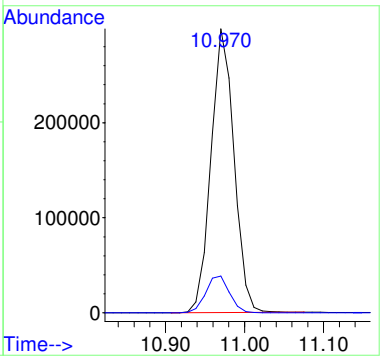
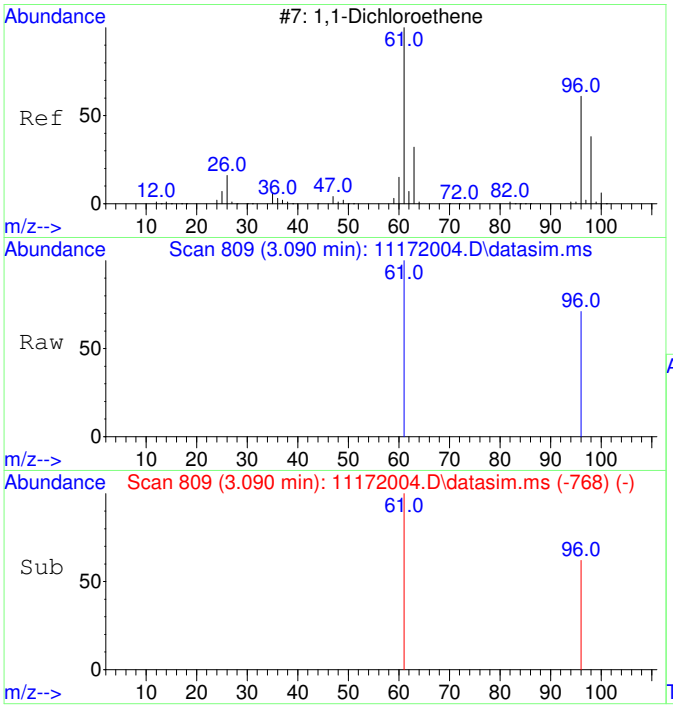


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:109 Resp: 604274

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

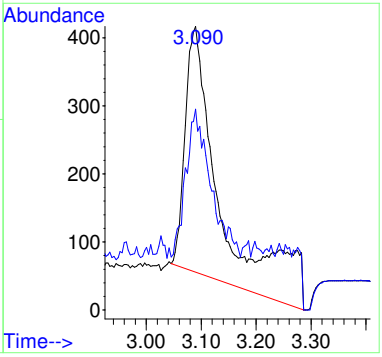




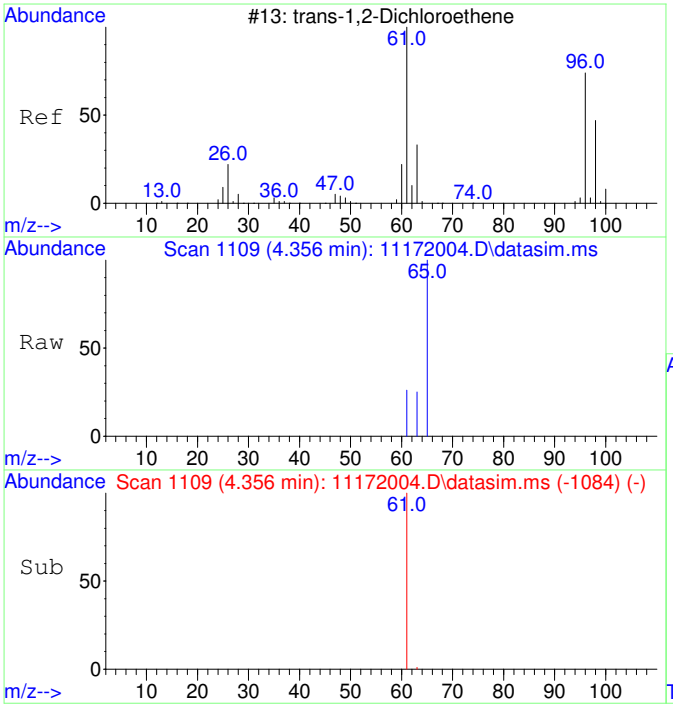
#2
1,1-Dichloroethene
Concen: 66.18 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 1597

Ion	Ratio	Lower	Upper
61	100		
96	53.5	37.2	97.2



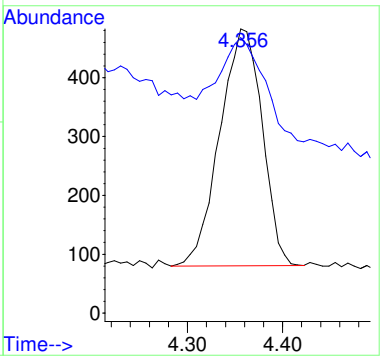
Before MI:
IMPROPER
BASELINE

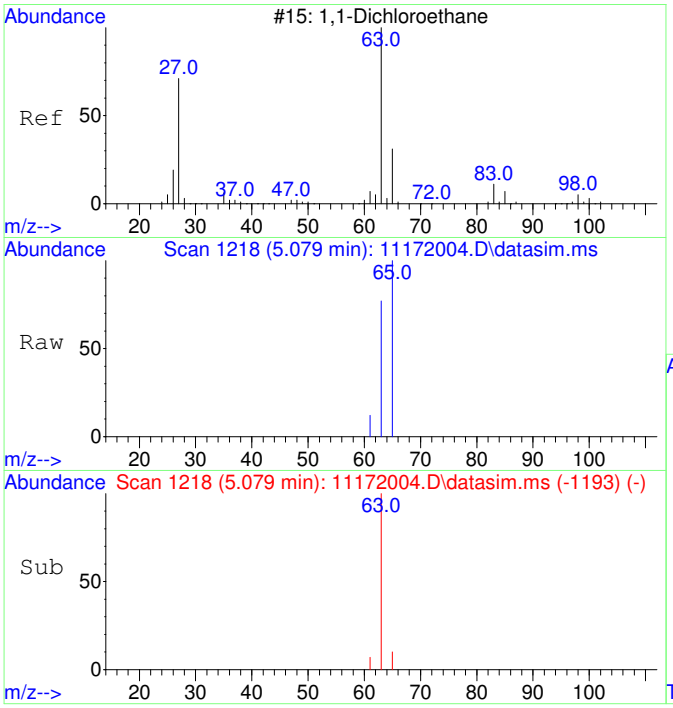


#3
trans-1,2-Dichloroethene
Concen: 44.80 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 1249

Ion	Ratio	Lower	Upper
61	100		
63	54.8	2.4	62.4

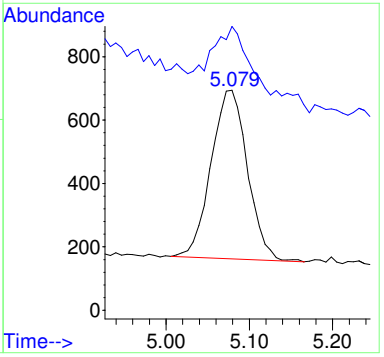


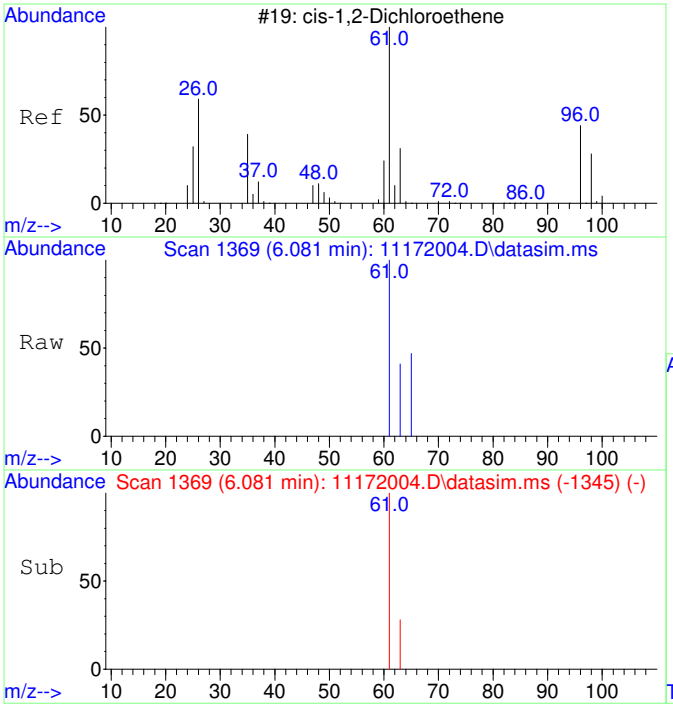


#4
1,1-Dichloroethane
Concen: 46.45 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 63 Resp: 1612

Ion	Ratio	Lower	Upper
63	100		
65	71.0	1.8	61.8#

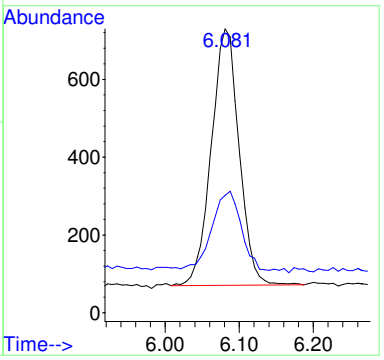


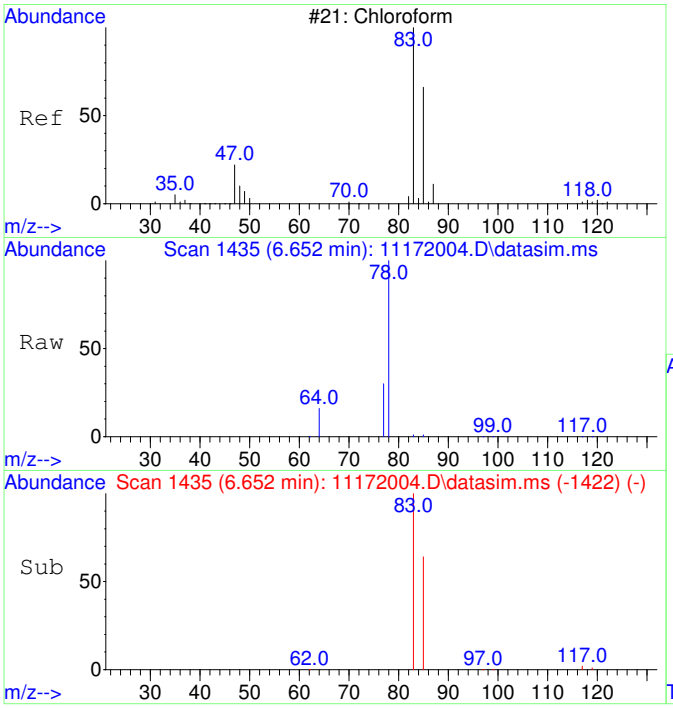


#5
cis-1,2-Dichloroethene
Concen: 46.90 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 1718

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.5	62.5

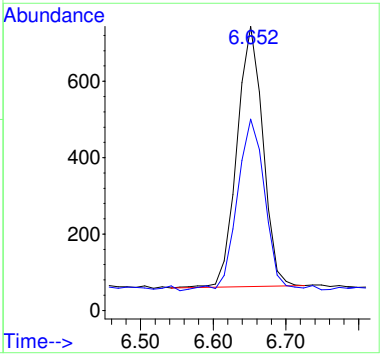


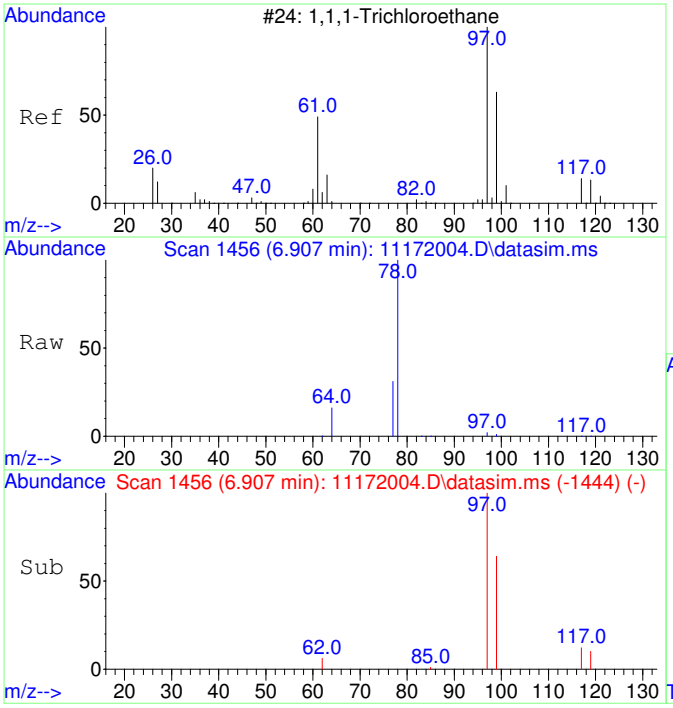


#6
Chloroform
Concen: 45.02 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 83 Resp: 1688

Ion	Ratio	Lower	Upper
83	100		
85	70.8	35.1	95.1

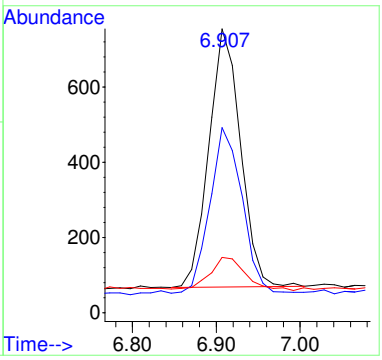


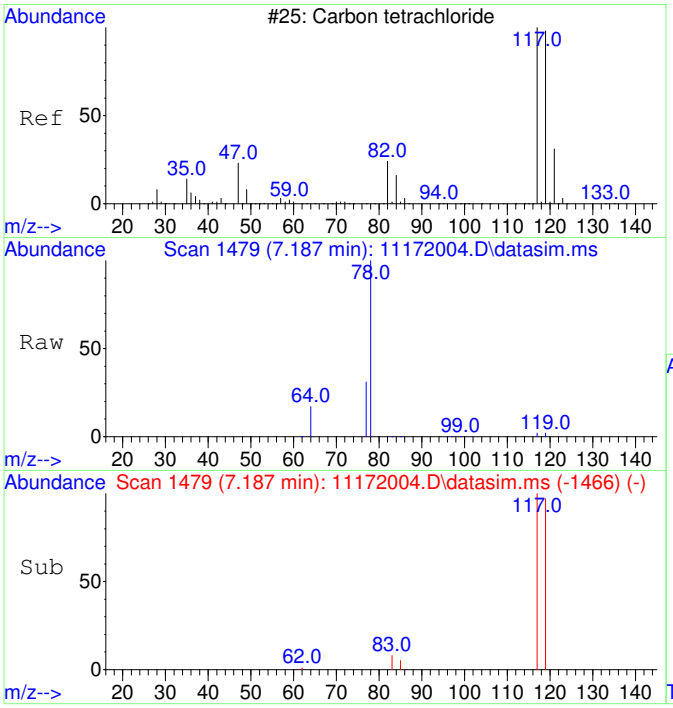


#7
1,1,1-Trichloroethane
Concen: 44.16 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 97 Resp: 1798

Ion	Ratio	Lower	Upper
97	100		
99	67.9	34.6	94.6
117	14.7	0.0	43.2

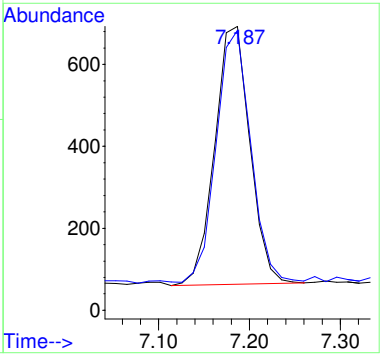


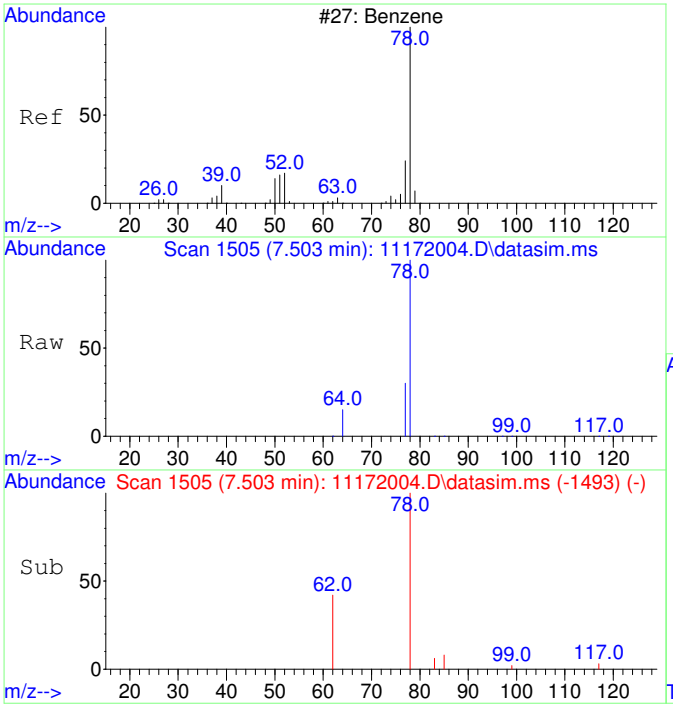


#8
Carbon tetrachloride
Concen: 44.28 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:117 Resp: 1697

Ion	Ratio	Lower	Upper
117	100		
119	95.6	66.4	126.4

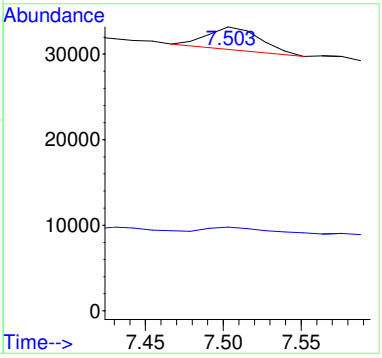


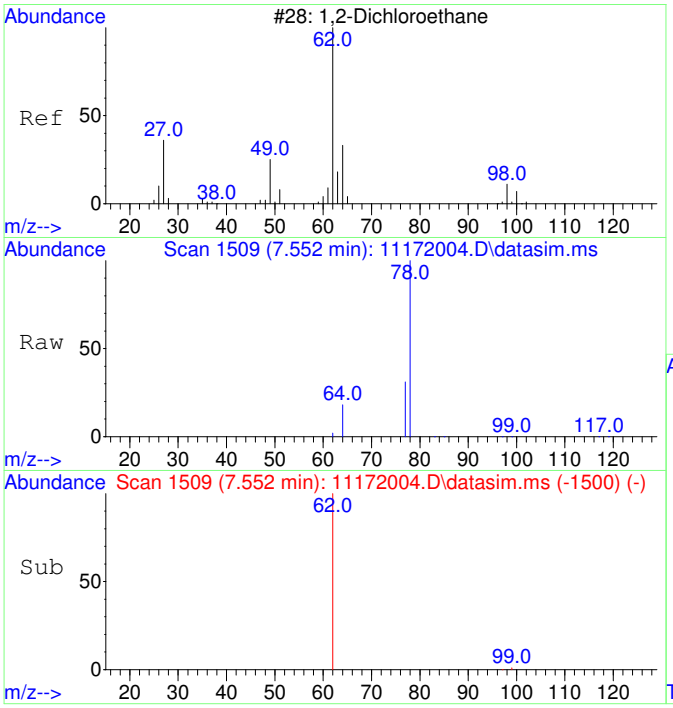


#9
Benzene
Concen: 56.75 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 78 Resp: 5827

Ion	Ratio	Lower	Upper
78	100		
77	43.1	0.0	53.2

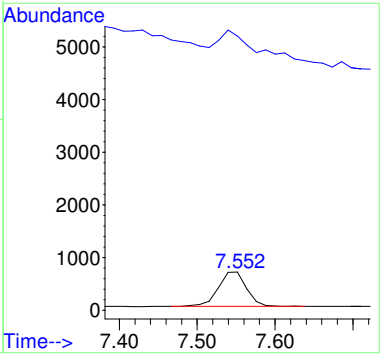


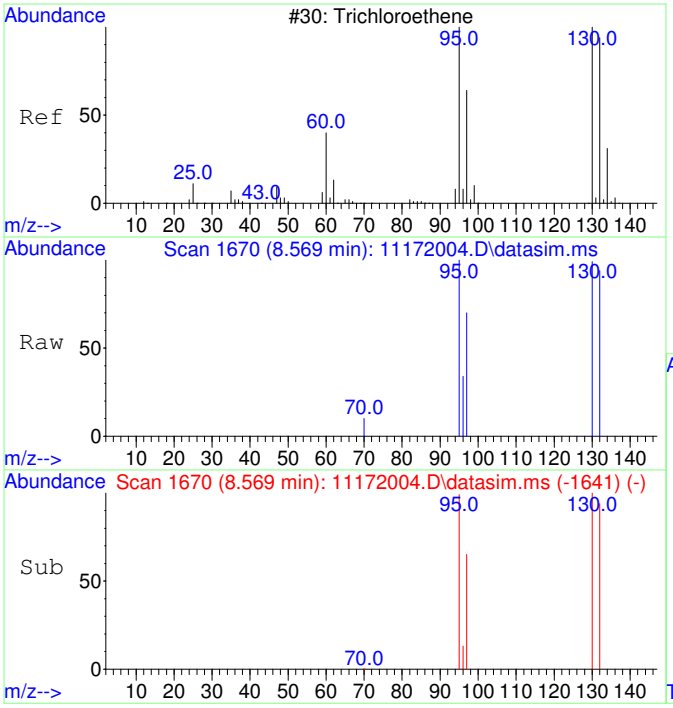


#10
1,2-Dichloroethane
Concen: 44.94 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 62 Resp: 1647

Ion	Ratio	Lower	Upper
62	100		
64	103.2	2.3	62.3#

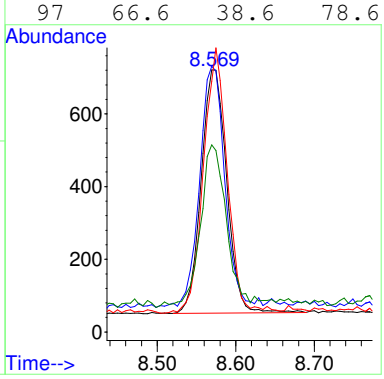


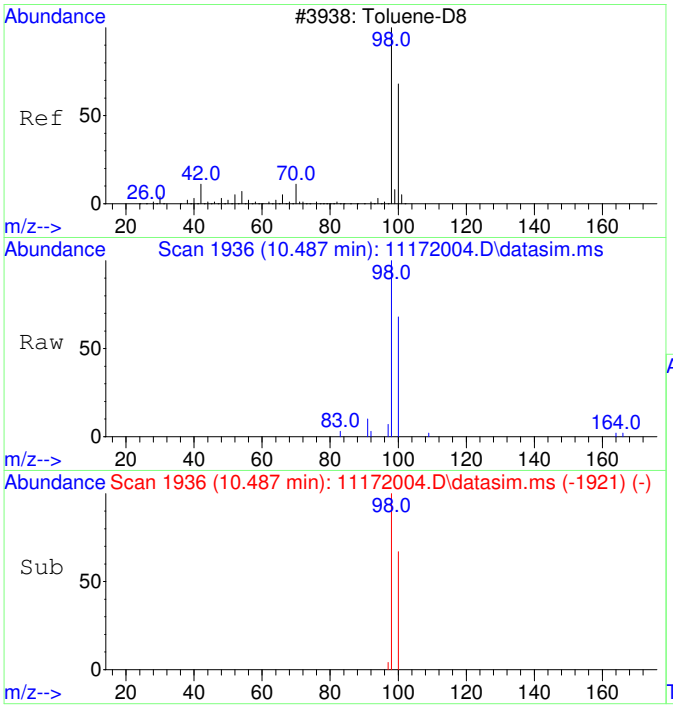


#11
Trichloroethene
Concen: 48.78 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:130 Resp: 1508

Ion	Ratio	Lower	Upper
130	100		
95	97.7	60.7	120.7
132	101.2	76.0	116.0
97	66.6	38.6	78.6

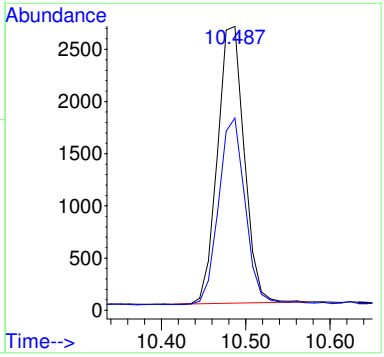


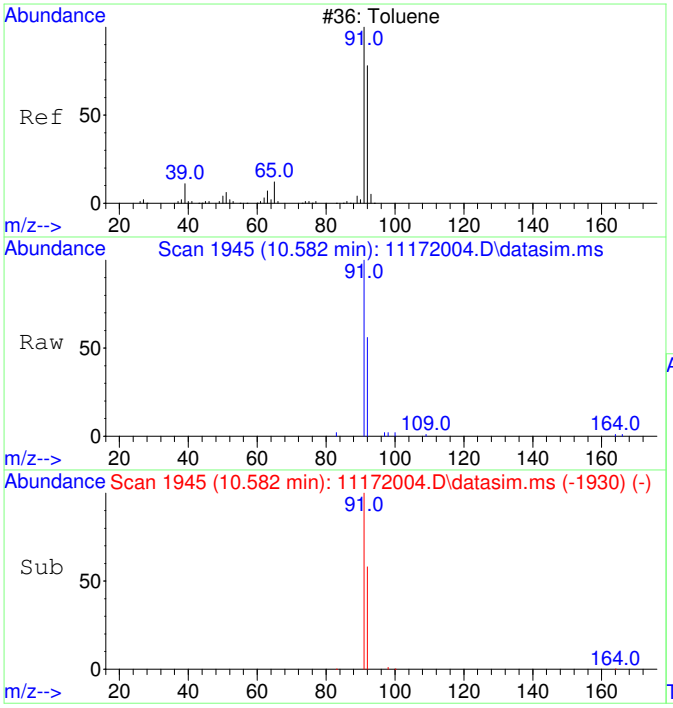


#12
Toluene-d8
Concen: 49.67 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 98 Resp: 5876

Ion	Ratio	Lower	Upper
98	100		
100	66.2	37.1	97.1

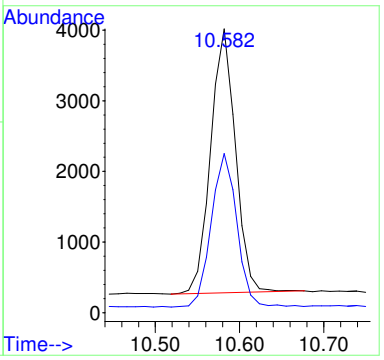


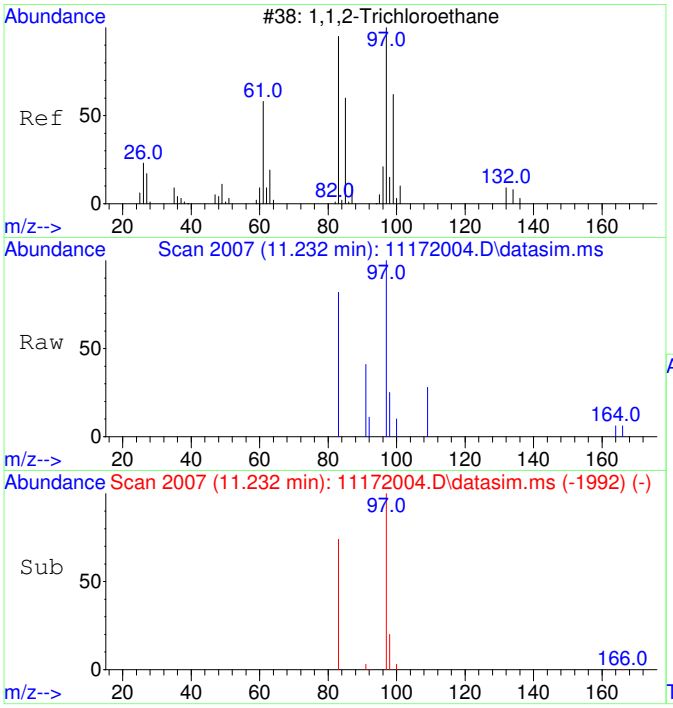


#13
Toluene
Concen: 50.71 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 7647

Ion	Ratio	Lower	Upper
91	100		
92	59.8	29.9	89.9

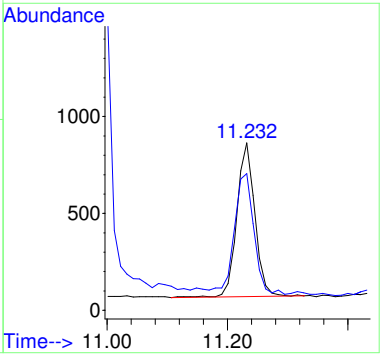


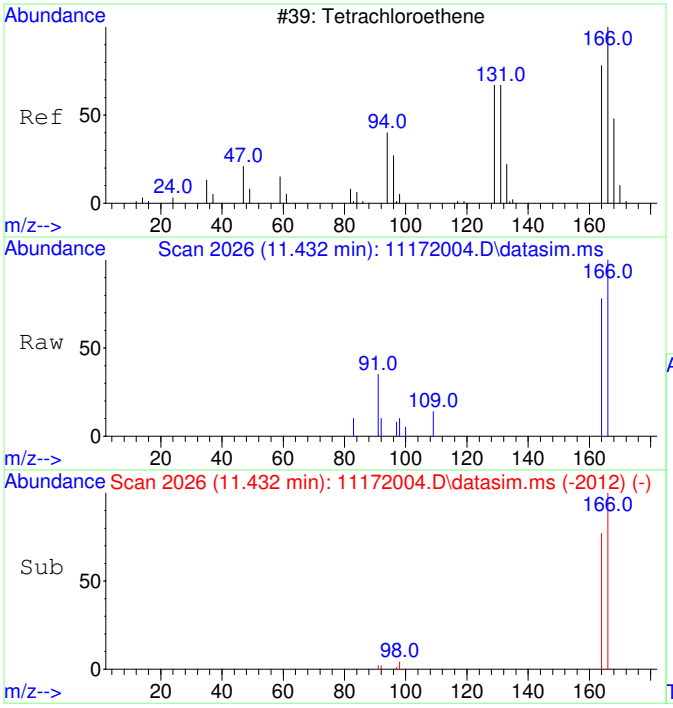


#14
1,1,2-Trichloroethane
Concen: 50.54 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 97 Resp: 1661

Ion	Ratio	Lower	Upper
97	100		
83	83.7	51.2	111.2

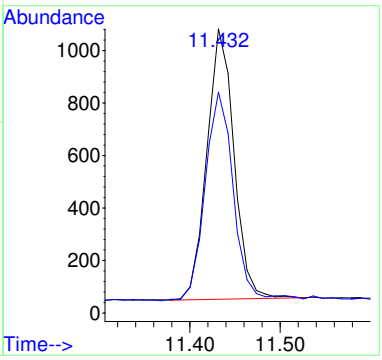


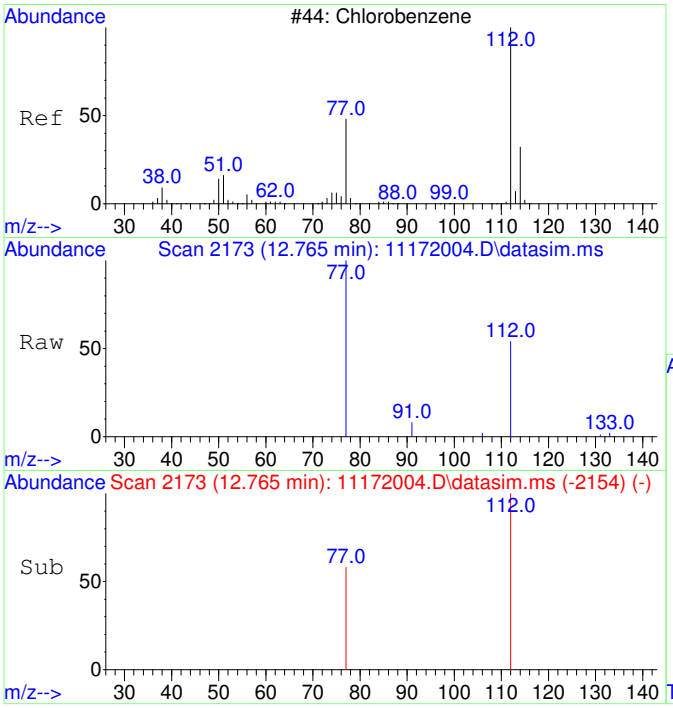


#15
Tetrachloroethene
Concen: 49.22 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:166 Resp: 2148

Ion	Ratio	Lower	Upper
166	100		
164	79.4	47.8	107.8

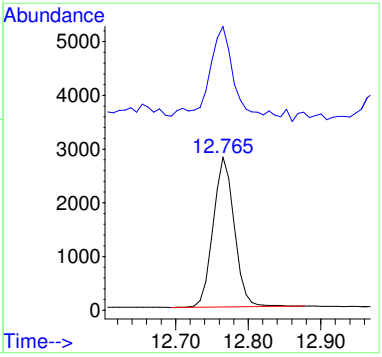


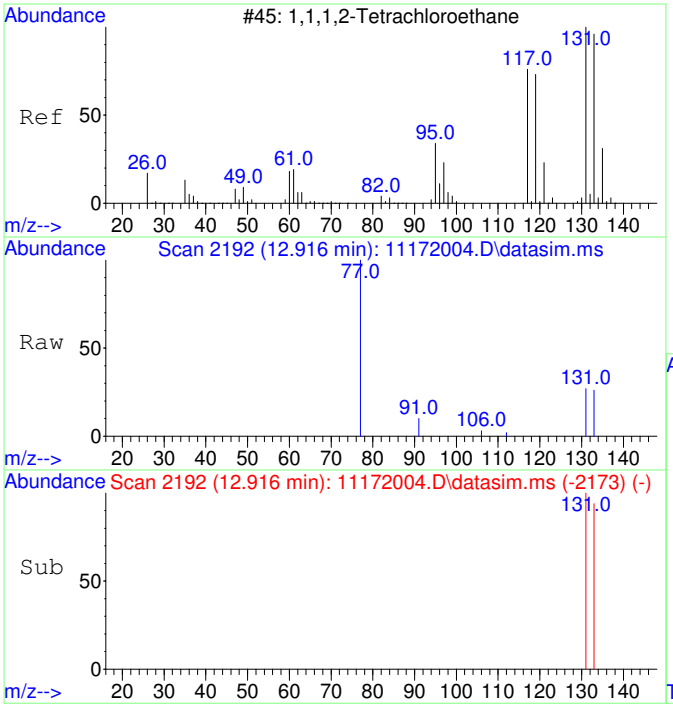


#16
Chlorobenzene
Concen: 52.20 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:112 Resp: 5637

Ion	Ratio	Lower	Upper
112	100		
77	64.7	23.6	83.6

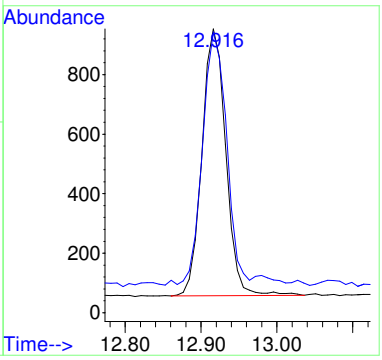


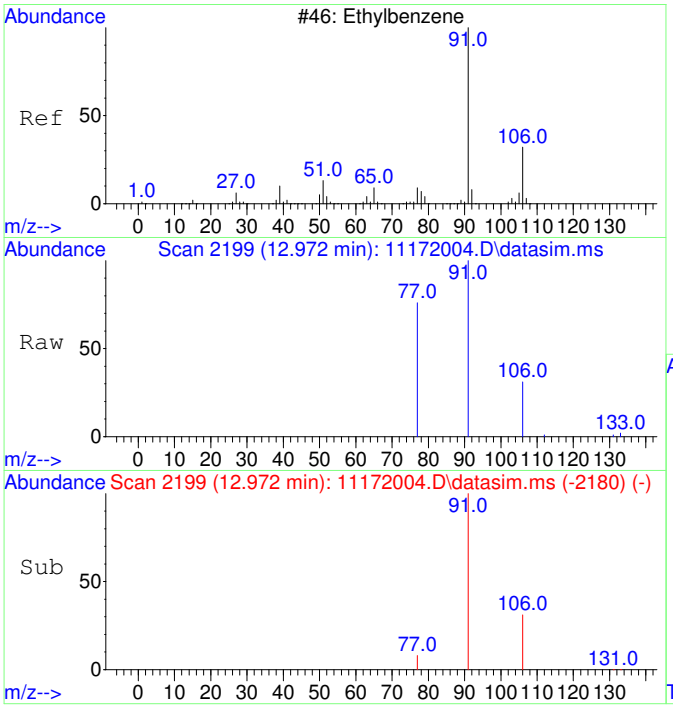


#17
1,1,1,2-Tetrachloroethane
Concen: 50.63 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:131 Resp: 1959

Ion	Ratio	Lower	Upper
131	100		
133	96.0	66.3	126.3

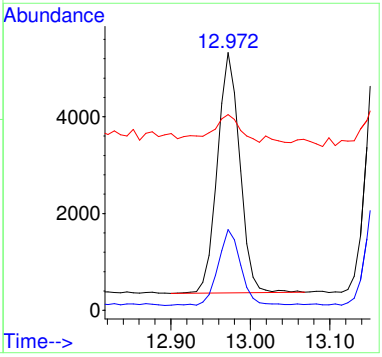


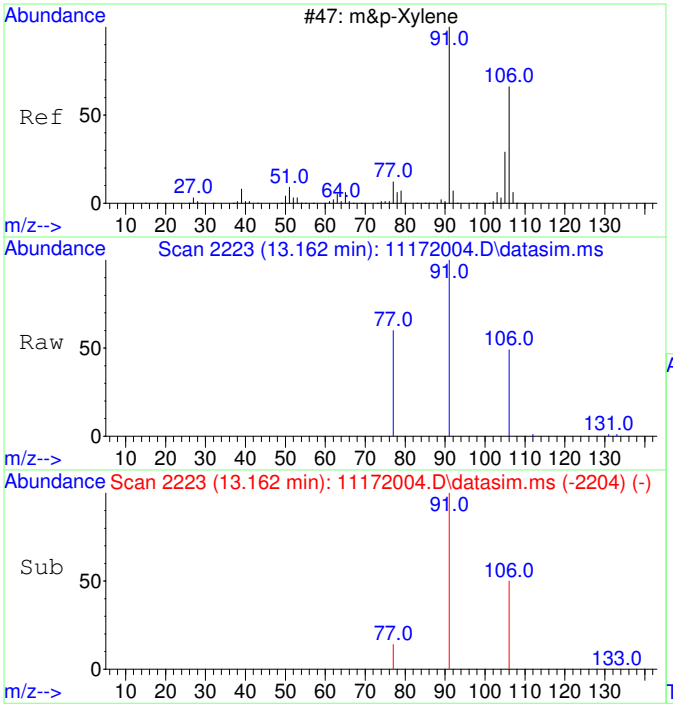


#18
Ethylbenzene
Concen: 52.93 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 9717

Ion	Ratio	Lower	Upper
91	100		
106	32.5	3.0	63.0
77	16.0	0.0	38.2

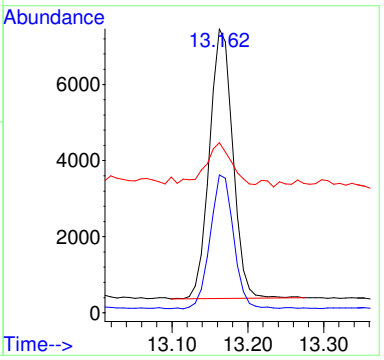


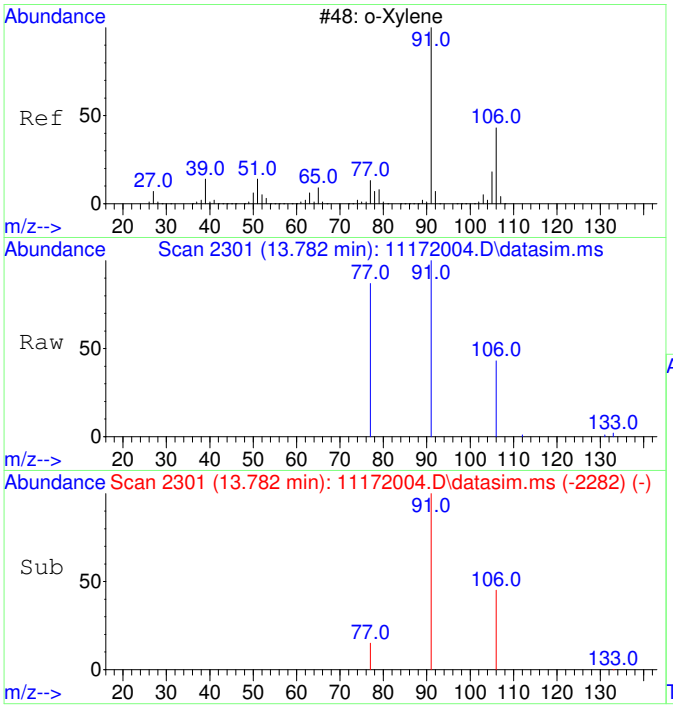


#19
m&p-Xylene
Concen: 105.54 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 15142

Ion	Ratio	Lower	Upper
91	100		
106	49.5	22.2	82.2
77	16.7	0.0	42.4

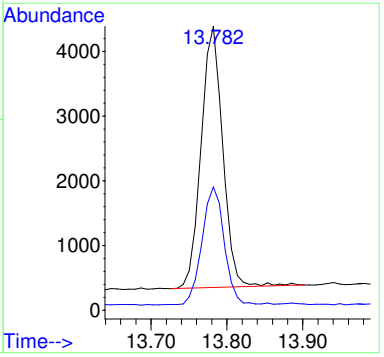


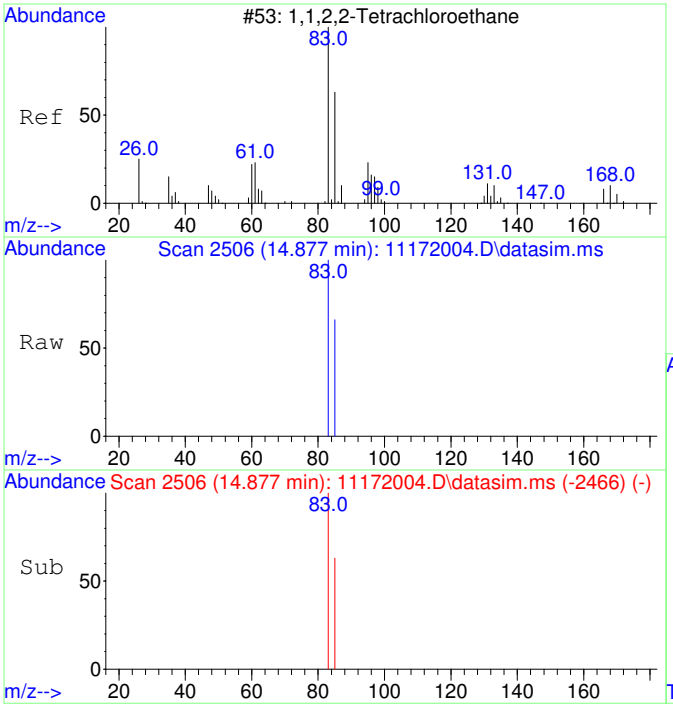


#20
o-Xylene
Concen: 52.20 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 8002

Ion	Ratio	Lower	Upper
91	100		
106	45.6	19.2	79.2

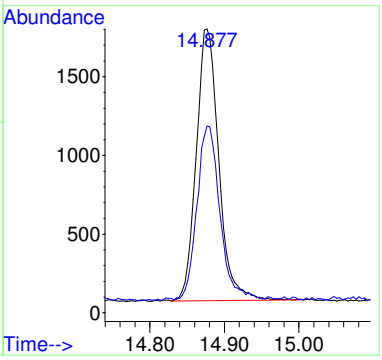


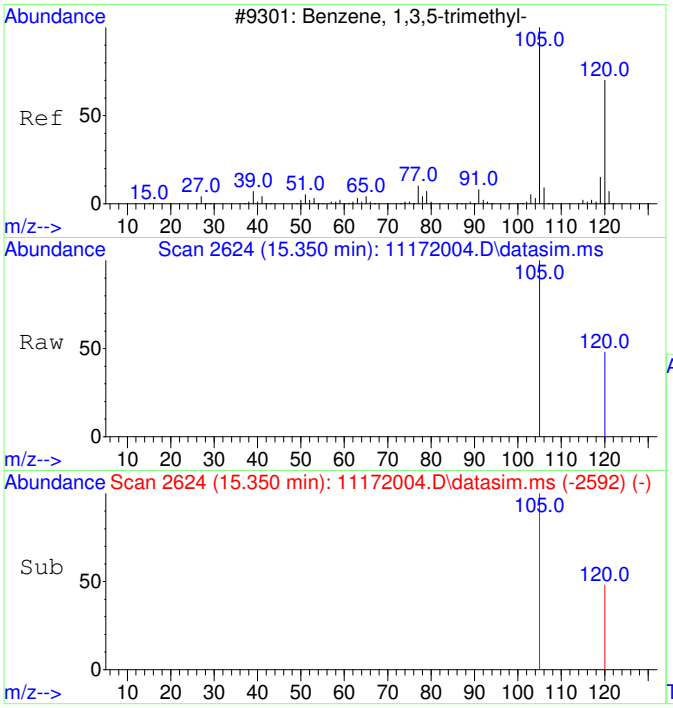


#21
1,1,2,2-Tetrachloroethane
Concen: 53.48 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 83 Resp: 3633

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.8	94.8

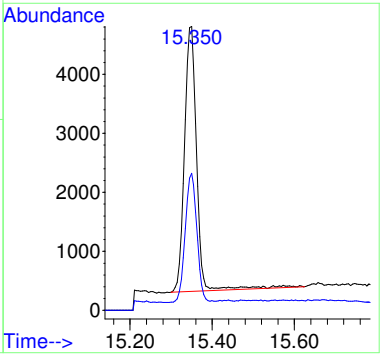


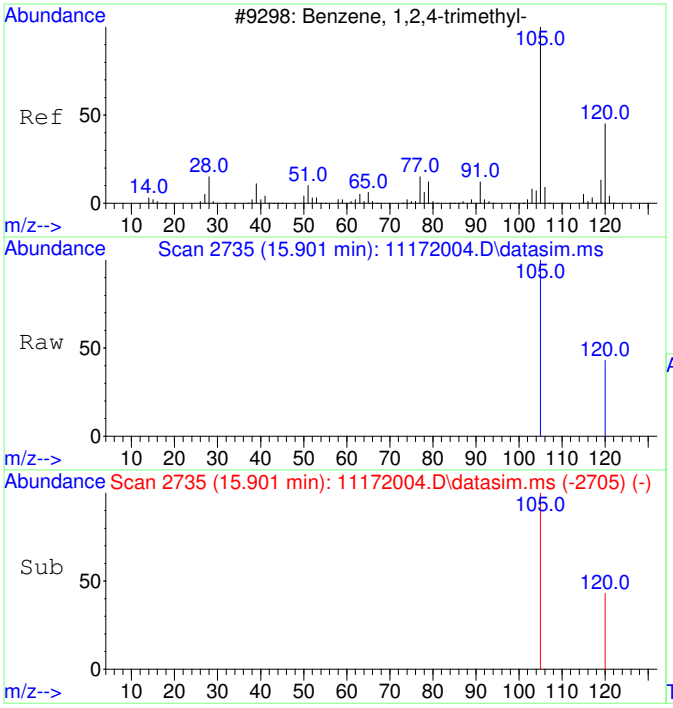


#22
1,3,5-Trimethylbenzene
Concen: 56.53 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:105 Resp: 9223

Ion	Ratio	Lower	Upper
105	100		
120	47.8	21.1	81.1

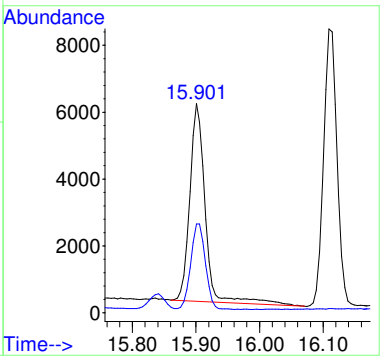


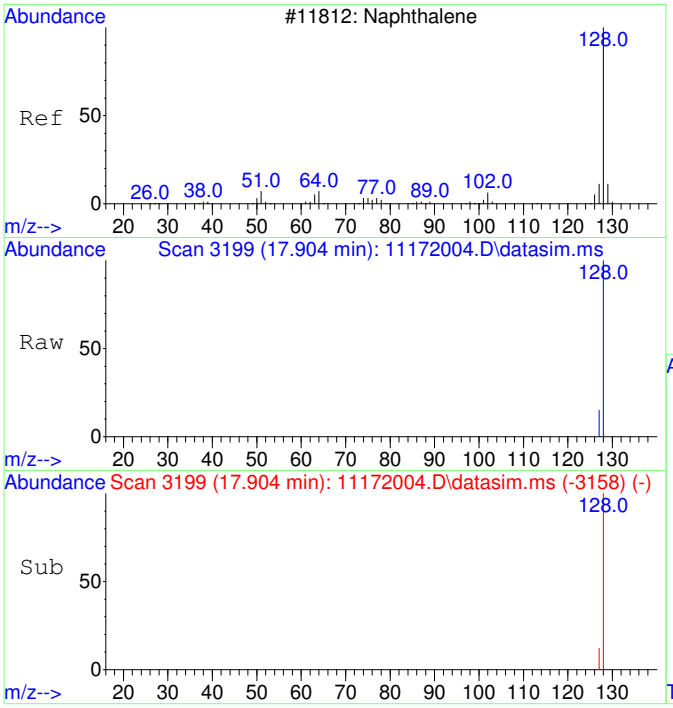


#23
1,2,4-Trimethylbenzene
Concen: 58.58 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:105 Resp: 9927

Ion	Ratio	Lower	Upper
105	100		
120	40.5	17.2	77.2

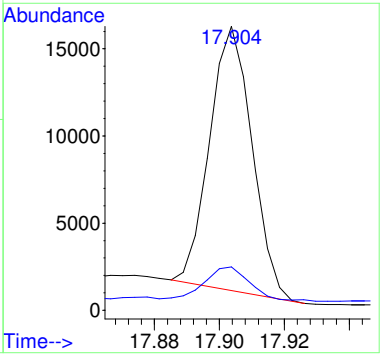


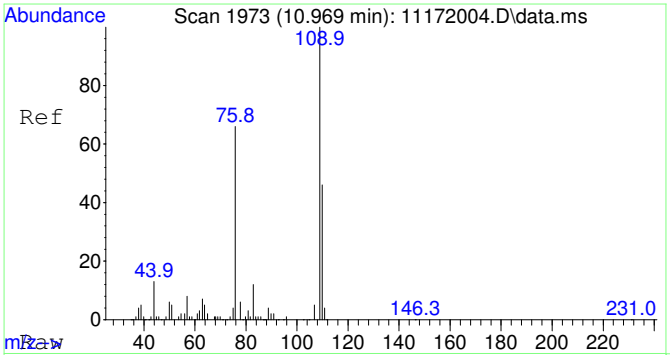


#24
Naphthalene
Concen: 50.79 ug/L
RT: 17.904 min Scan# 3199
Delta R.T. 0.001 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:128 Resp: 13603

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.5

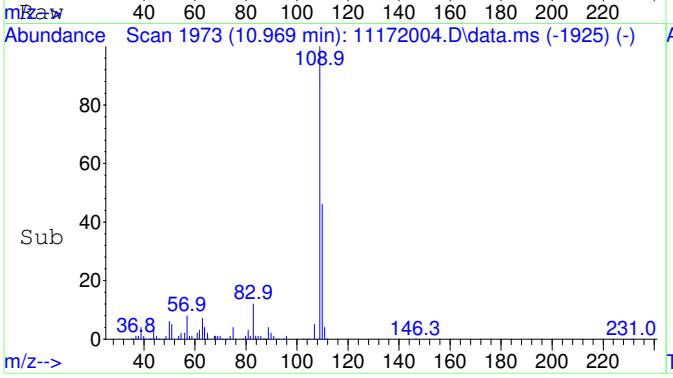


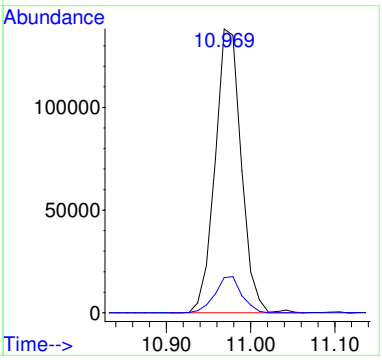


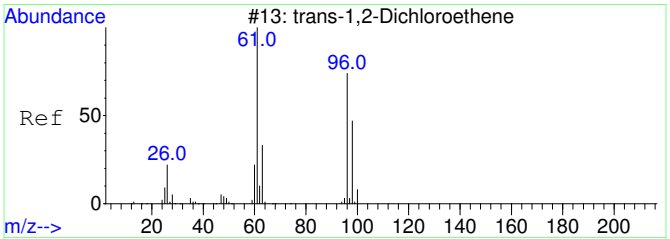
#25
2-Fluorotoluene SCAN
Concen: 5067.92 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:109 Resp: 298529

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.8



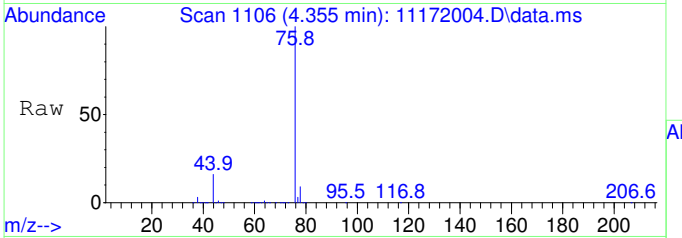


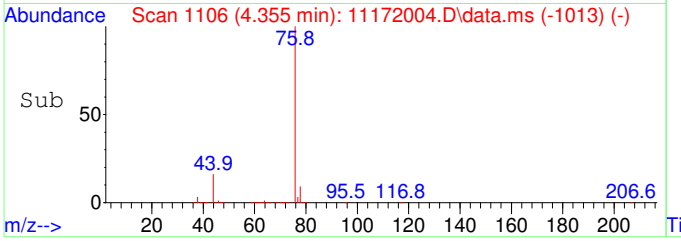


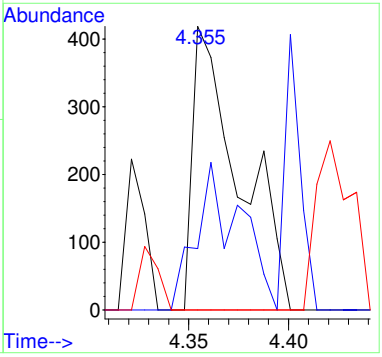
#27
trans-1,2-Dichloroethene SCAN
Concen: 43.99 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

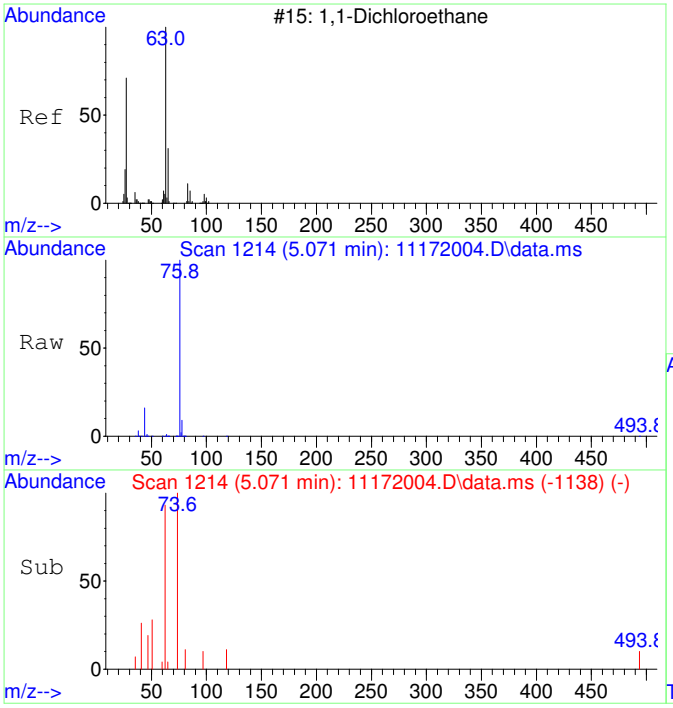
Tgt Ion: 61 Resp: 681

Ion	Ratio	Lower	Upper
61	100		
96	49.0	49.0	109.0
98	0.0	20.5	80.5#





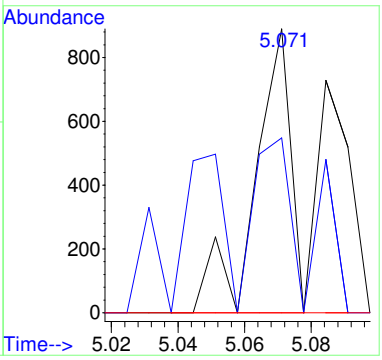


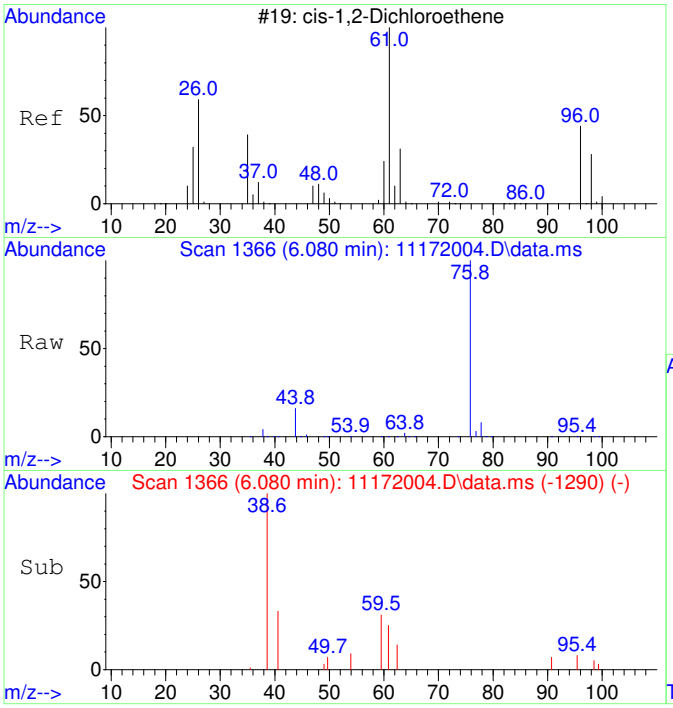


#28
1,1-Dichloroethane SCAN
Concen: 36.62 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 63 Resp: 656

Ion	Ratio	Lower	Upper
63	100		
65	92.5	1.3	61.3#
83	0.0	0.0	45.9

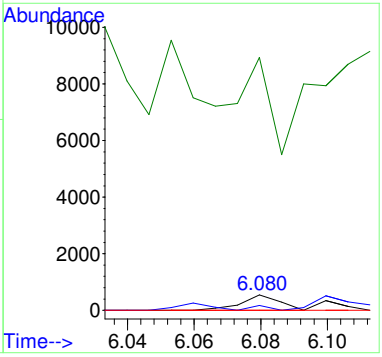


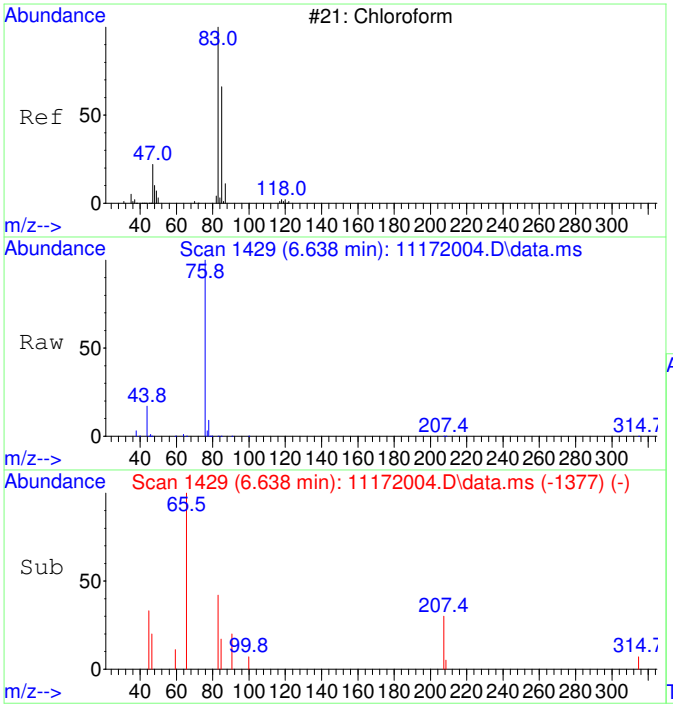


#29
cis-1,2-Dichloroethene SCAN
Concen: 22.56 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 433

Ion	Ratio	Lower	Upper
61	100		
96	43.4	39.9	99.9
98	0.0	13.5	73.5#
64	0.0	4.5	64.5#

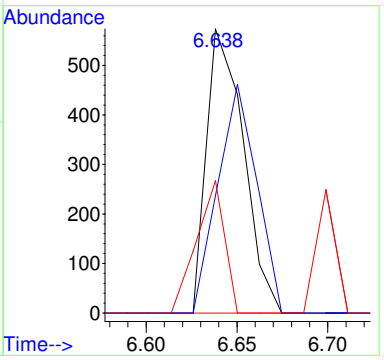


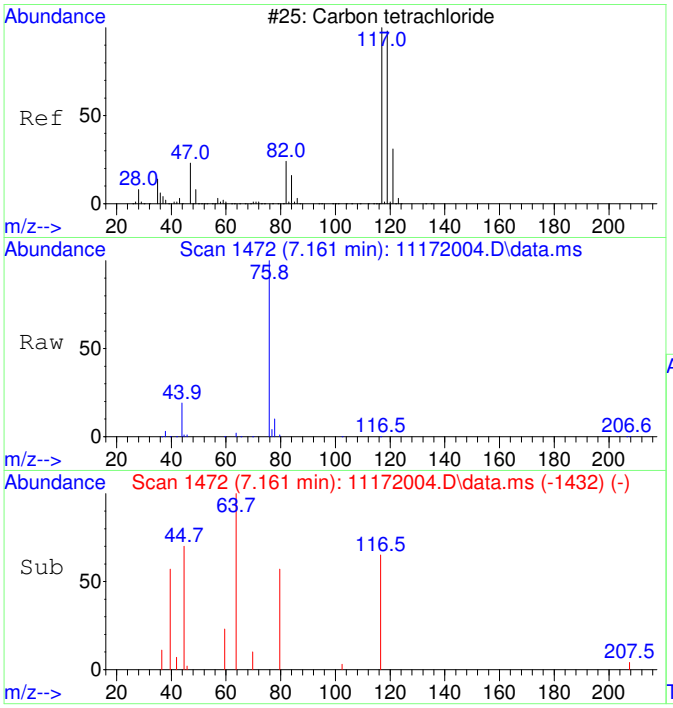


#30
Chloroform SCAN
Concen: 39.05 ug/L
RT: 6.638 min Scan# 1429
Delta R.T. -0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 83 Resp: 813

Ion	Ratio	Lower	Upper
83	100		
85	84.5	34.6	94.6
47	35.2	0.0	53.4

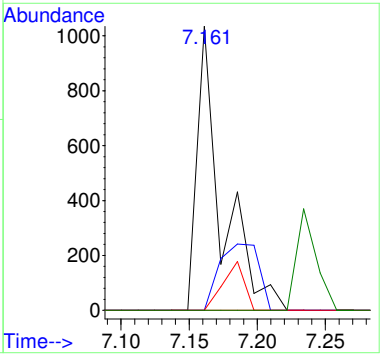


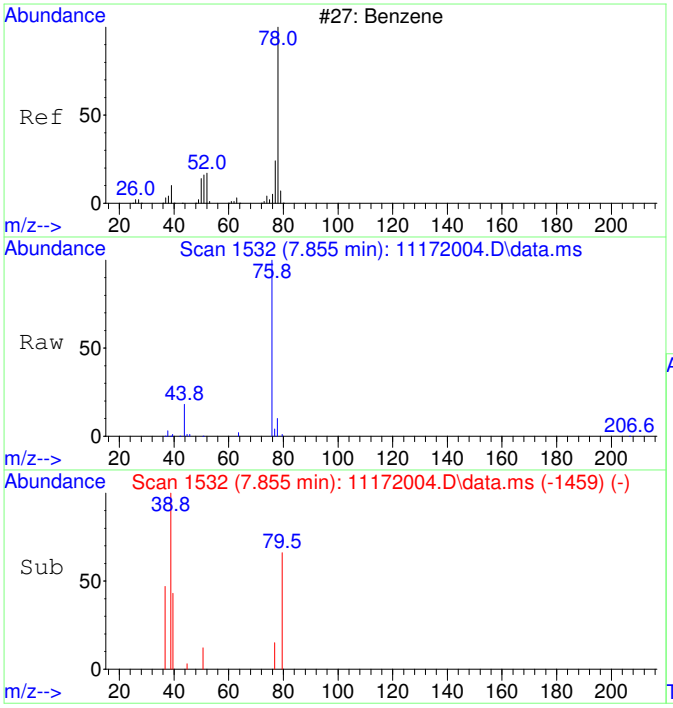


#32
Carbon tetrachloride SCAN
Concen: 65.99 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:117 Resp: 1306

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

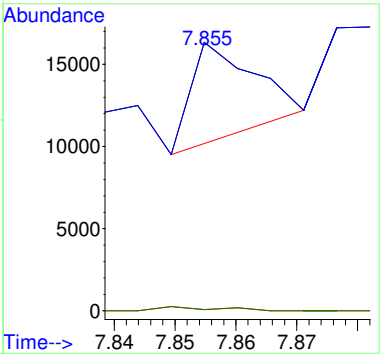


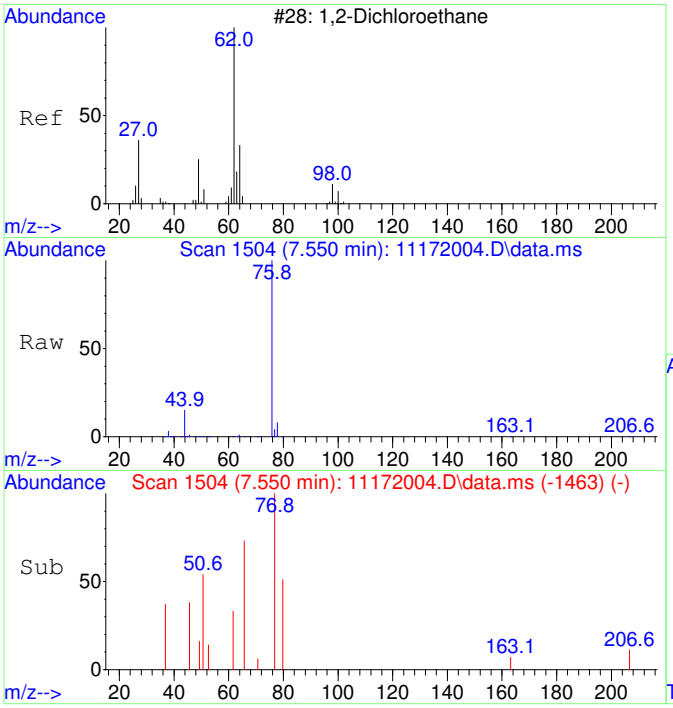


#33
Benzene SCAN
Concen: 87.74 ug/L
RT: 7.855 min Scan# 1532
Delta R.T. 0.353 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 78 Resp: 4583

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.8	0.0	47.9
51	3.8	0.0	44.1

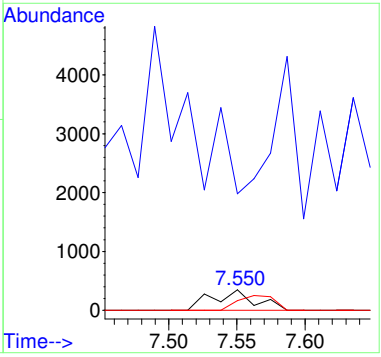


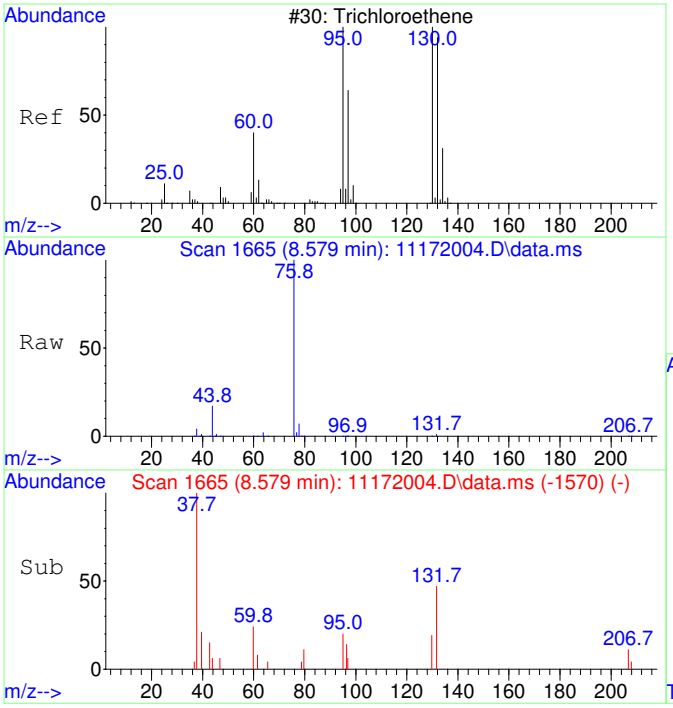


#34
1,2-Dichloroethane SCAN
Concen: 39.56 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 62 Resp: 763

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	62.1	3.9	63.9

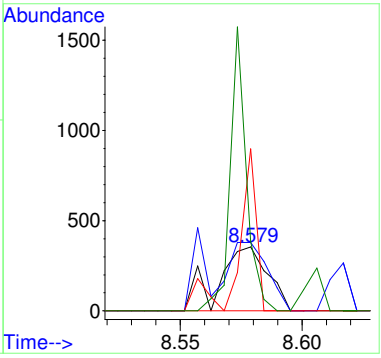


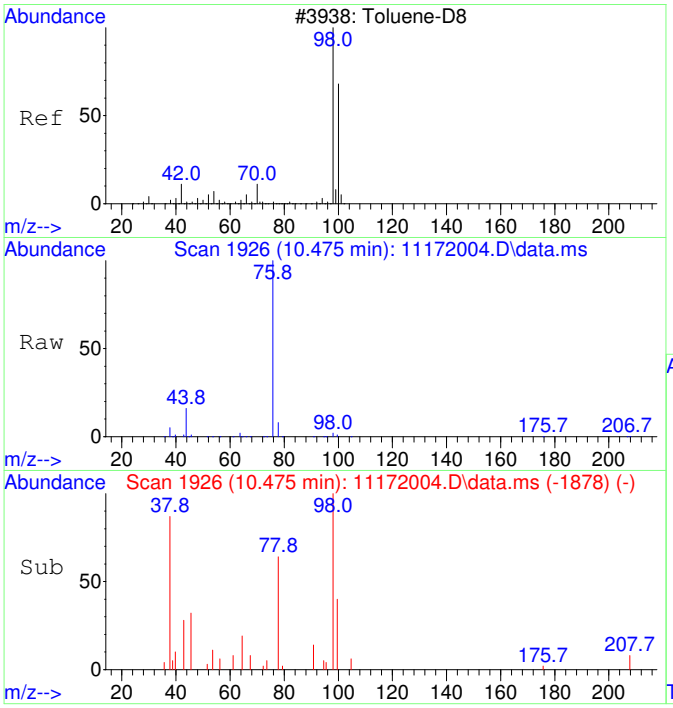


#35
Trichloroethene SCAN
Concen: 34.97 ug/L
RT: 8.579 min Scan# 1665
Delta R.T. 0.016 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:130 Resp: 502

Ion	Ratio	Lower	Upper
130	100		
95	70.7	60.5	120.5
132	72.3	59.6	119.6
97	145.2	28.2	88.2#

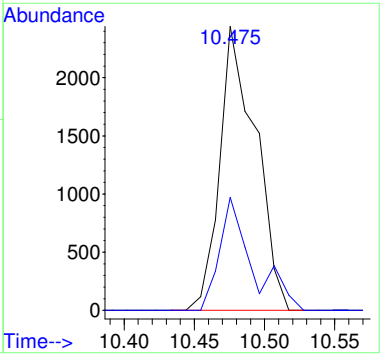


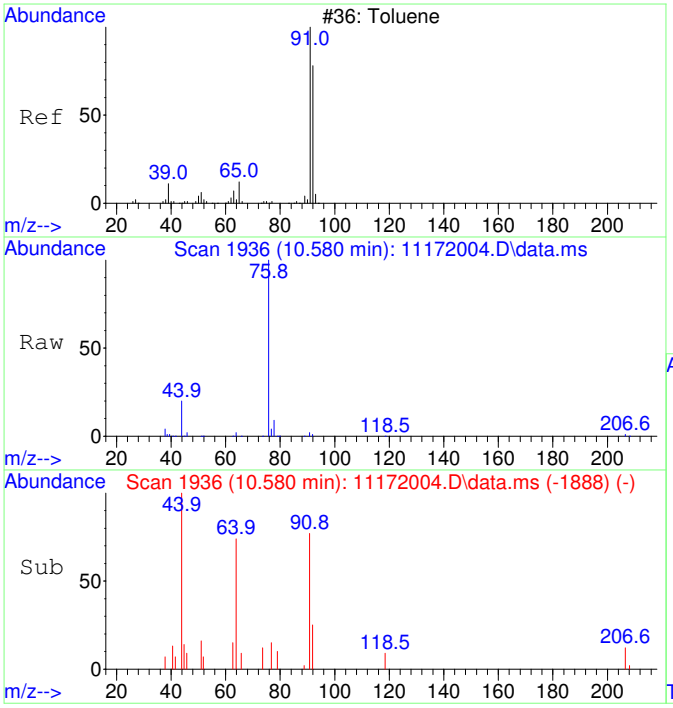


#36
Toluene-d8 SCAN
Concen: 75.68 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 98 Resp: 4360

Ion	Ratio	Lower	Upper
98	100		
100	36.2	40.0	100.0#

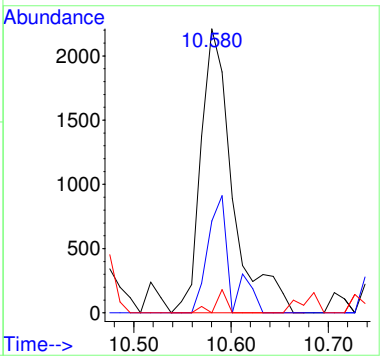


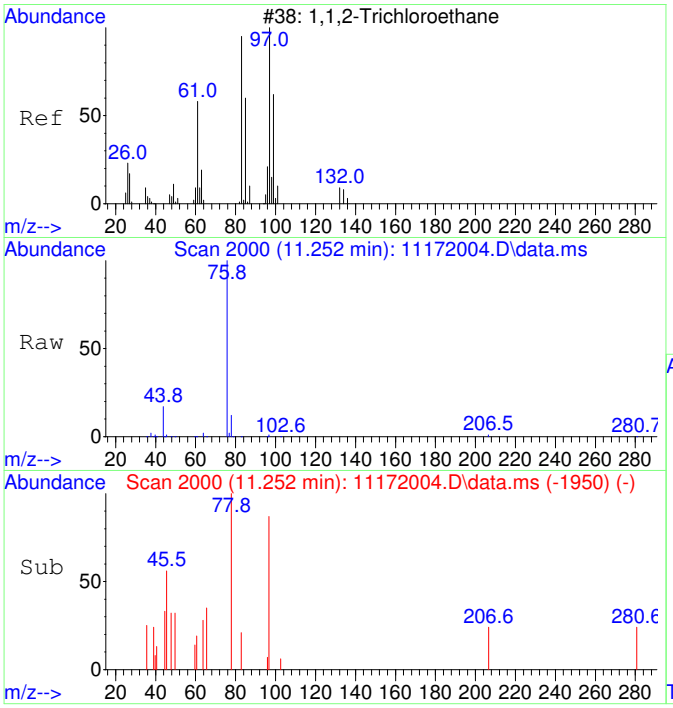


#37
Toluene SCAN
Concen: 68.33 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 5041

Ion	Ratio	Lower	Upper
91	100		
92	29.4	28.3	88.3
65	2.9	0.0	41.0

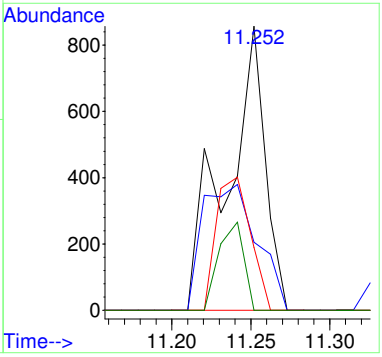


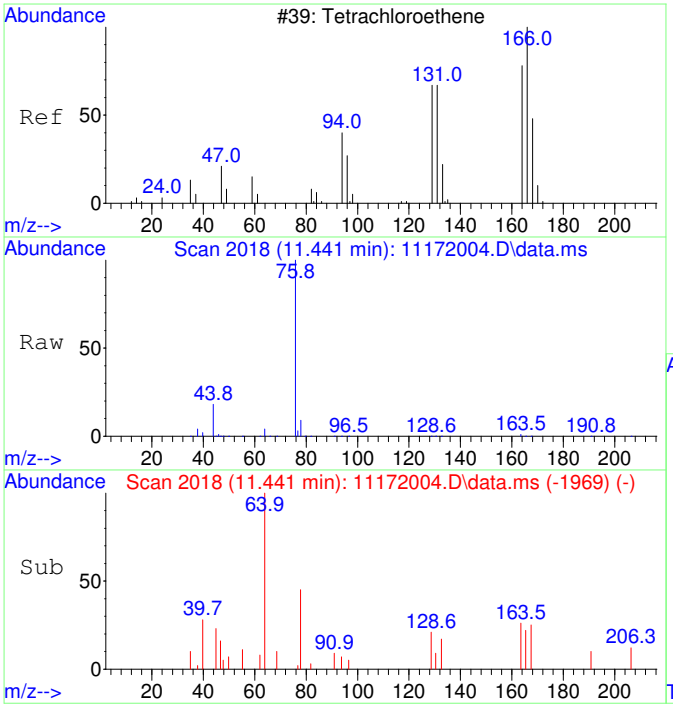


#38
1,1,2-Trichloroethane SCAN
Concen: 88.29 ug/L
RT: 11.252 min Scan# 2000
Delta R.T. 0.021 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 97 Resp: 1462

Ion	Ratio	Lower	Upper
97	100		
83	62.2	57.7	117.7
61	41.3	32.1	92.1
99	20.1	36.7	96.7#

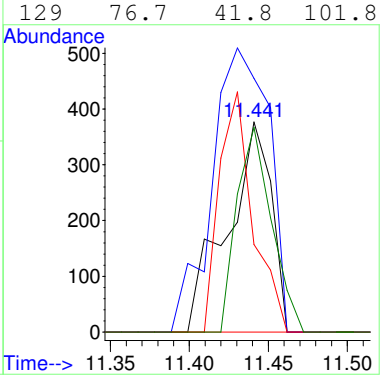


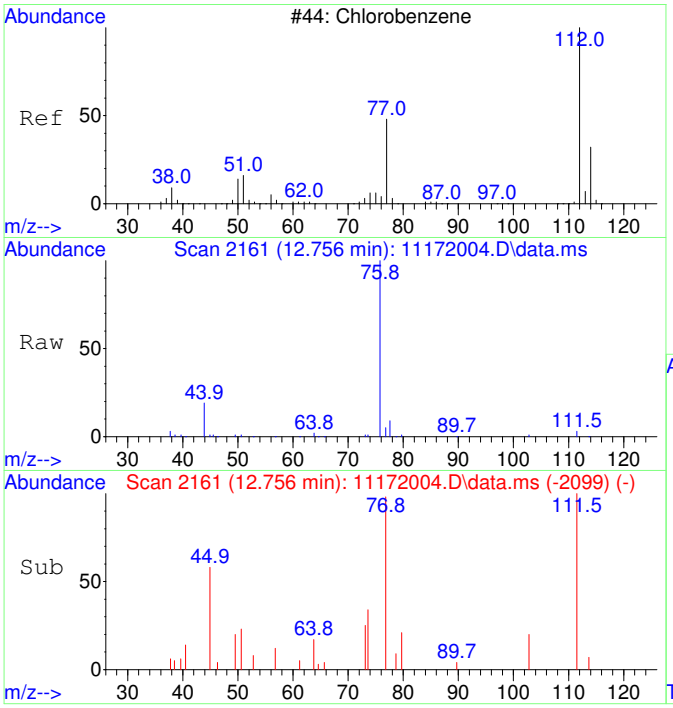


#39
Tetrachloroethene SCAN
Concen: 41.47 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:166 Resp: 735

Ion	Ratio	Lower	Upper
166	100		
164	173.9	50.9	110.9#
131	86.7	38.7	98.7
129	76.7	41.8	101.8

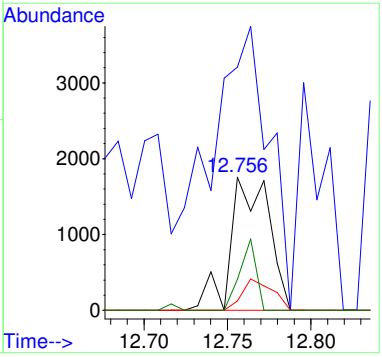


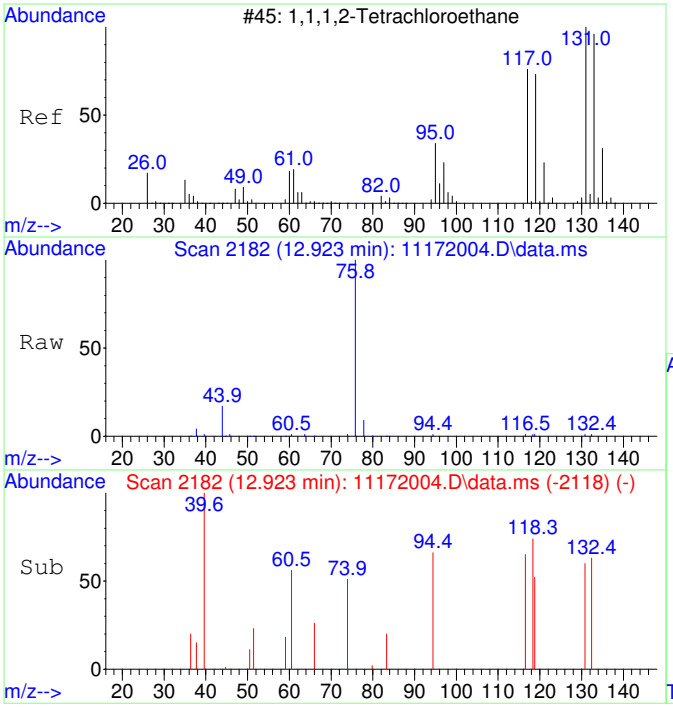


#40
Chlorobenzene SCAN
Concen: 56.45 ug/L
RT: 12.756 min Scan# 2161
Delta R.T. -0.008 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:112 Resp: 2846

Ion	Ratio	Lower	Upper
112	100		
77	214.2	28.2	88.2#
114	18.3	2.3	62.3
51	22.6	0.0	50.1

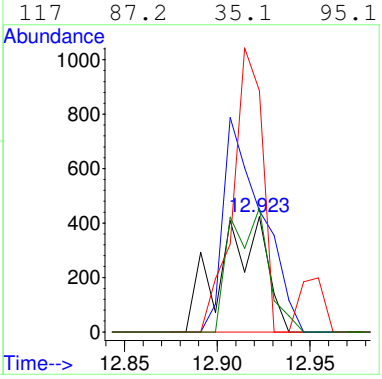


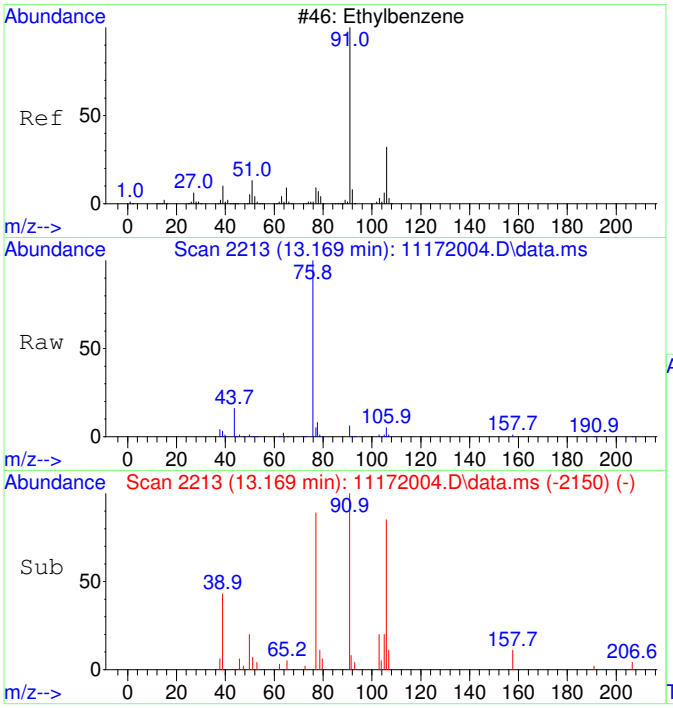


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 39.77 ug/L
RT: 12.923 min Scan# 2182
Delta R.T. 0.008 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:131 Resp: 742

Ion	Ratio	Lower	Upper
131	100		
133	154.7	66.9	126.9#
119	157.1	40.4	100.4#
117	87.2	35.1	95.1

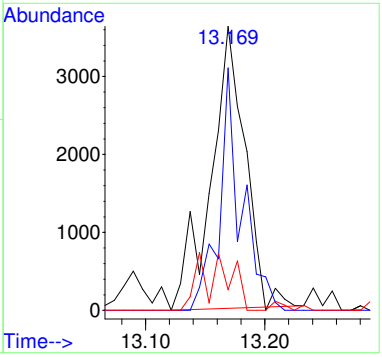


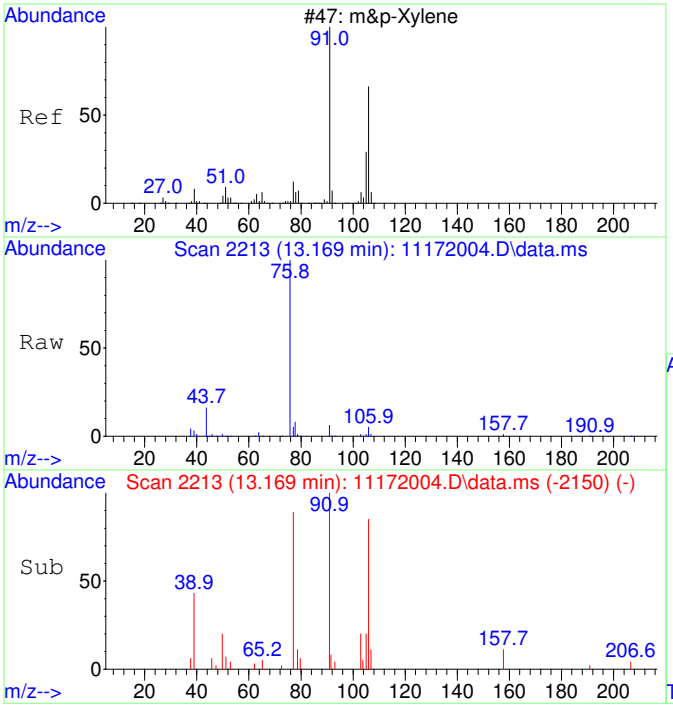


#42
Ethylbenzene SCAN
Concen: 53.91 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 7246

Ion	Ratio	Lower	Upper
91	100		
106	55.3	23.1	83.1
51	9.5	0.0	40.1

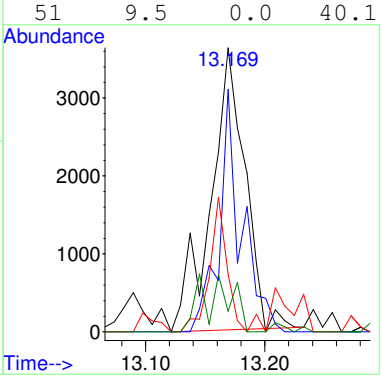


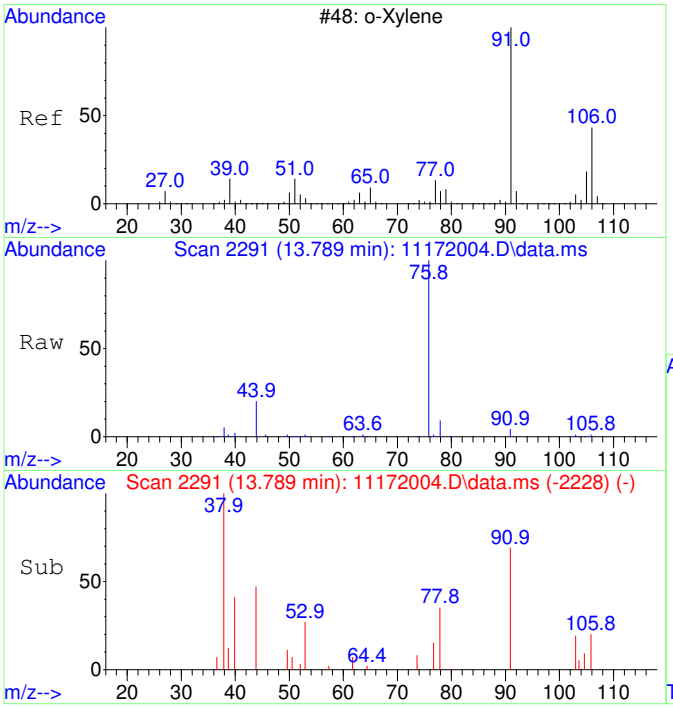


#43
m&p-Xylene SCAN
Concen: 53.91 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 7246

Ion	Ratio	Lower	Upper
91	100		
106	55.3	23.1	83.1
105	23.9	0.0	54.7
51	9.5	0.0	40.1

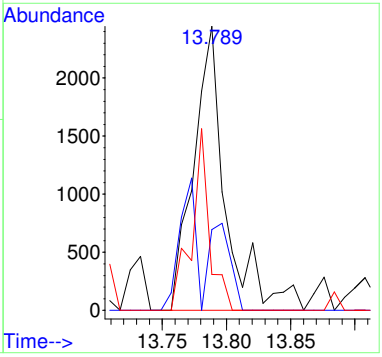


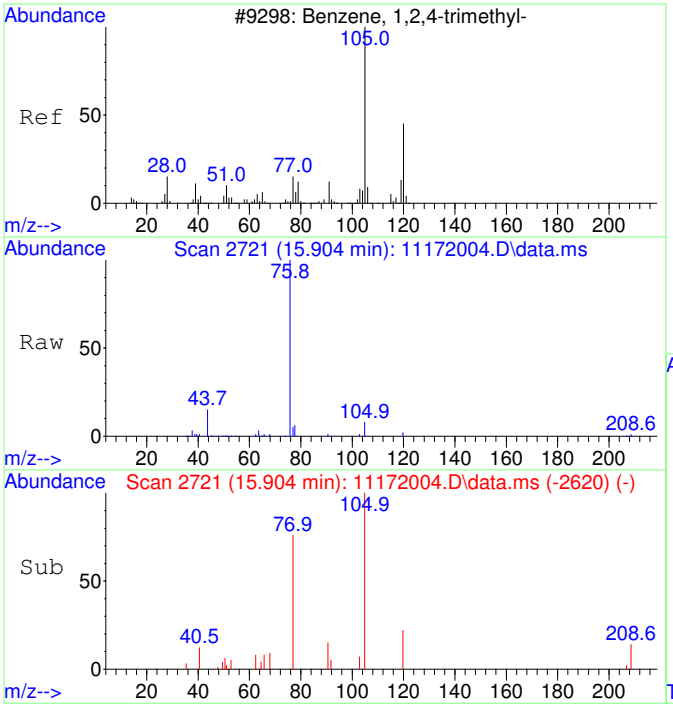


#44
o-Xylene SCAN
Concen: 59.48 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 4279

Ion	Ratio	Lower	Upper
91	100		
106	20.4	18.0	78.0
105	35.0	0.0	56.6

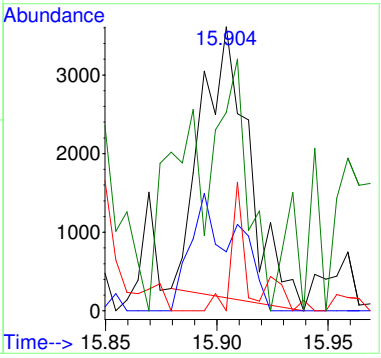


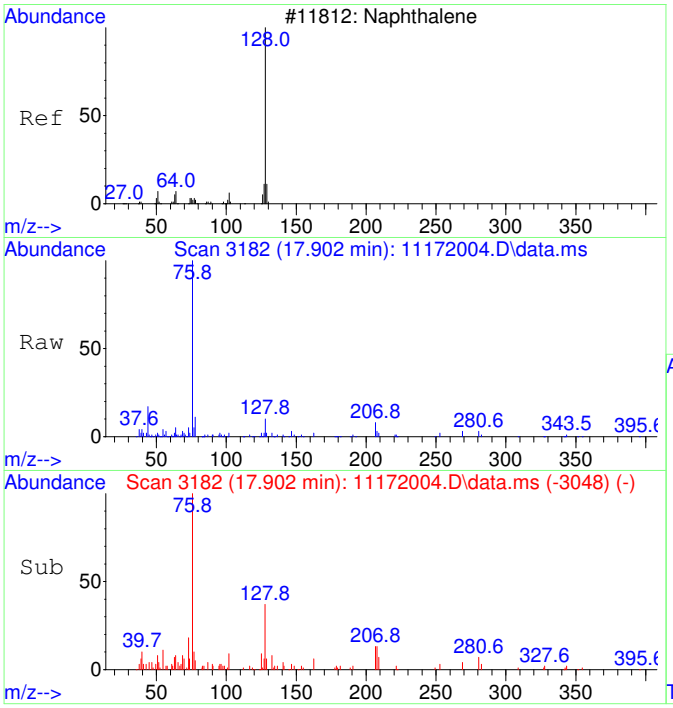


#47
1,2,4-Trimethylbenzene SCAN
Concen: 66.05 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:105 Resp: 5124

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.9	76.9#
119	10.1	0.0	41.9
77	43.3	0.0	42.3#

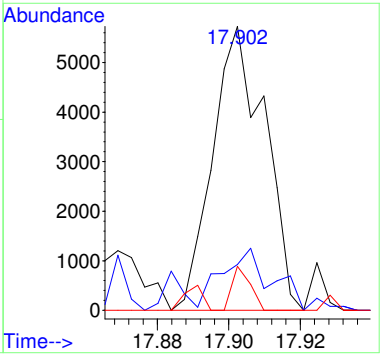




#48
Naphthalene SCAN
Concen: 49.60 ug/L
RT: 17.902 min Scan# 3182
Delta R.T. -0.003 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:128 Resp: 5823

Ion	Ratio	Lower	Upper
128	100		
127	19.6	0.0	44.0
129	5.4	0.0	40.8



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172004.D
Acq On : 17 Nov 2020 9:05
InstName : AG5975C
Operator : TD
Sample : S20K066-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

M.I. Performed By:
TD at 12:20 pm, Nov 17, 2020

M.I. Approved By:
ZR at 3:35 pm, Nov 23, 2020

Quant Time: Nov 17 09:24:41 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

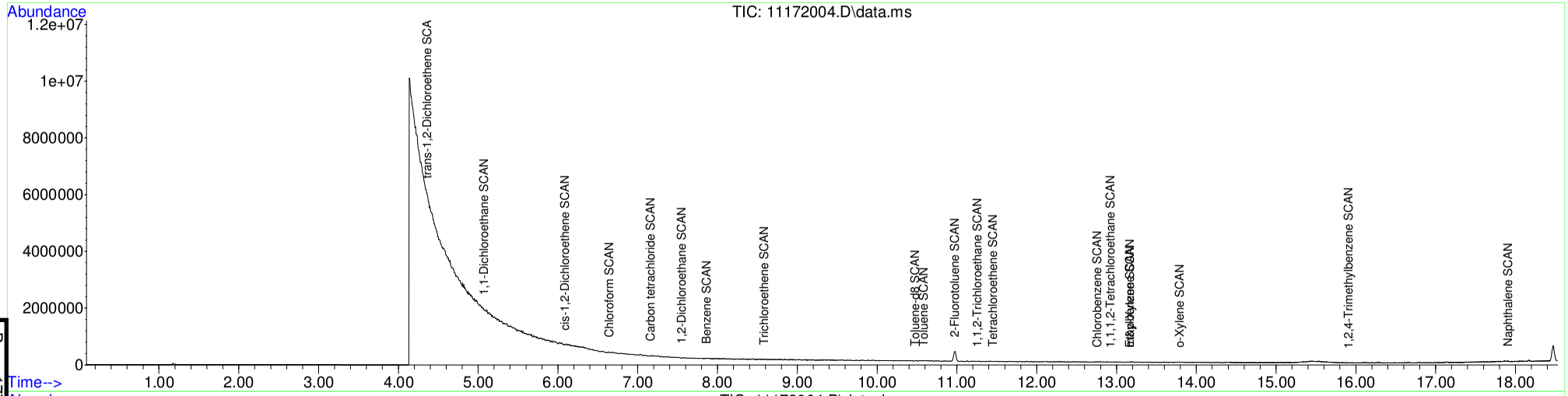
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	604274	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	5876	49.67	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	1103m	45.71	ug/L	
3] trans-1,2-Dichloroethene	4.356	61	1249	44.80	ug/L	60
4] 1,1-Dichloroethane	5.079	63	1612	46.45	ug/L #	30
5] cis-1,2-Dichloroethene	6.081	61	1718	46.90	ug/L	99
6] Chloroform	6.652	83	1688	45.02	ug/L	93
7] 1,1,1-Trichloroethane	6.907	97	1798	44.16	ug/L	96
8] Carbon tetrachloride	7.187	117	1697	44.28	ug/L	99
9] Benzene	7.503	78	5827	56.75	ug/L	59
10] 1,2-Dichloroethane	7.552	62	1647	44.94	ug/L #	1
11] Trichloroethene	8.569	130	1508	48.78	ug/L	93
13] Toluene	10.582	91	7647	50.71	ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	1661	50.54	ug/L	97
15] Tetrachloroethene	11.432	166	2148	49.22	ug/L	98
16] Chlorobenzene	12.765	112	5637	52.20	ug/L	84
17] 1,1,1,2-Tetrachloroethane	12.916	131	1959	50.63	ug/L	100
18] Ethylbenzene	12.972	91	9717	52.93	ug/L	95
19] m&p-Xylene	13.162	91	15142	105.54	ug/L	95
20] o-Xylene	13.782	91	8002	52.20	ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.877	83	3633	53.48	ug/L	99
22] 1,3,5-Trimethylbenzene	15.350	105	9223	56.53	ug/L	95
23] 1,2,4-Trimethylbenzene	15.901	105	9927	58.58	ug/L	90
24] Naphthalene	17.904	128	13603	50.79	ug/L	98
25) 2-Fluorotoluene SCAN	10.969	109	298529	5067.92	ug/L	98
27) trans-1,2-Dichloroethe...	4.355	61	681	43.99	ug/L #	51
28) 1,1-Dichloroethane SCAN	5.071	63	656	36.62	ug/L #	14
29) cis-1,2-Dichloroethene...	6.080	61	433	22.56	ug/L #	51
30) Chloroform SCAN	6.638	83	813	39.05	ug/L	75
32) Carbon tetrachloride SCAN	7.161	117	1306	65.99	ug/L #	15
33) Benzene SCAN	7.855	78	4583	87.74	ug/L	93
34) 1,2-Dichloroethane SCAN	7.550	62	763	39.56	ug/L #	45
35) Trichloroethene SCAN	8.579	130	502	34.97	ug/L #	57
36) Toluene-d8 SCAN	10.475	98	4360	75.68	ug/L #	59
37) Toluene SCAN	10.580	91	5041	68.33	ug/L	64
38) 1,1,2-Trichloroethane ...	11.252	97	1462	88.29	ug/L #	63
39) Tetrachloroethene SCAN	11.441	166	735	41.47	ug/L #	53
40) Chlorobenzene SCAN	12.756	112	2846	56.45	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.923	131	742	39.77	ug/L #	36
42) Ethylbenzene SCAN	13.169	91	7246	53.91	ug/L	97
43) m&p-Xylene SCAN	13.169	91	7246	53.91	ug/L	98
44) o-Xylene SCAN	13.789	91	4279	59.48	ug/L	68
47) 1,2,4-Trimethylbenzene...	15.904	105	5124	66.05	ug/L #	39
48) Naphthalene SCAN	17.902	128	5823	49.60	ug/L	86

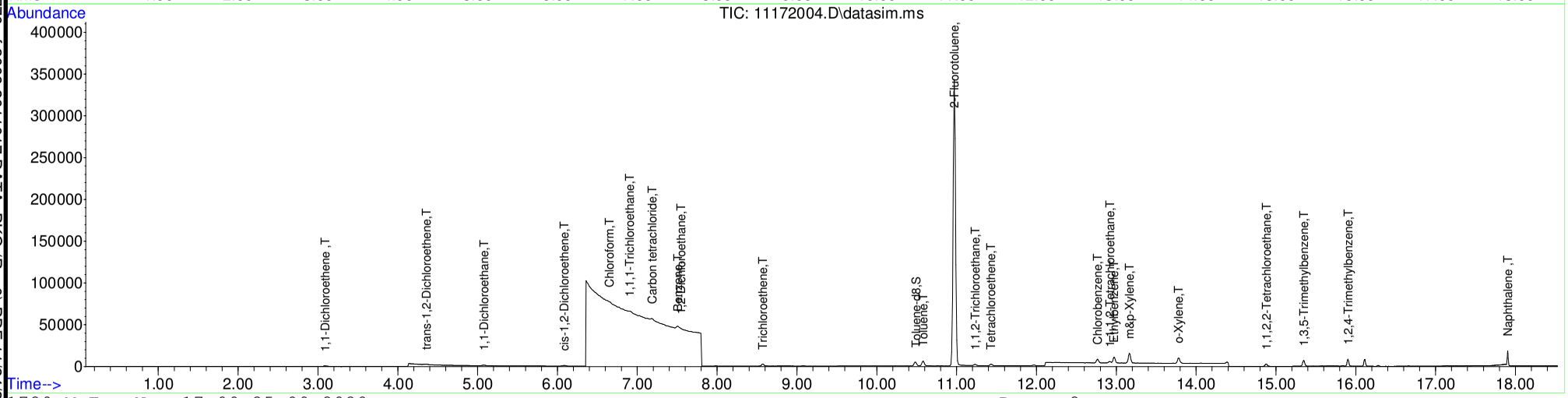
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111720\
Data File : 11172004.D
Acq On : 17 Nov 2020 9:05
InstName : AG5975C
Operator : TD
Sample : S20K066-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 17 09:24:41 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111720.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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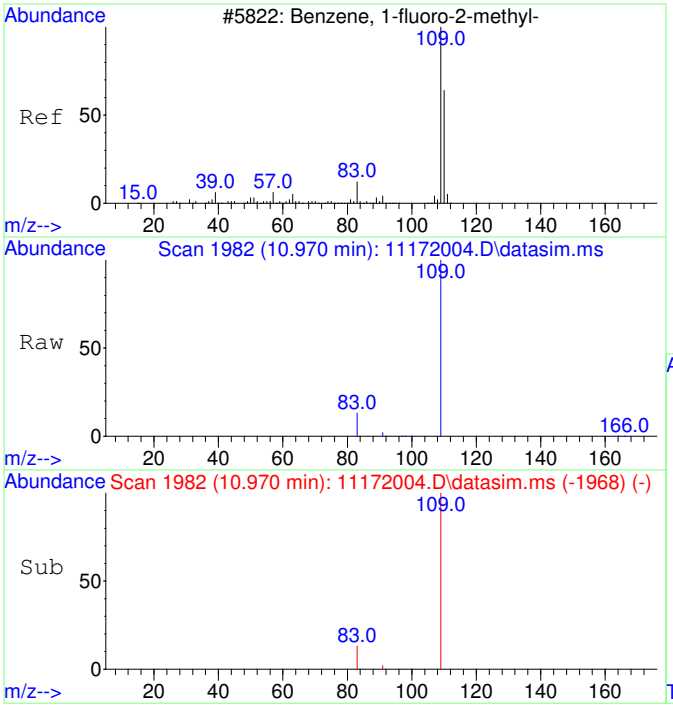
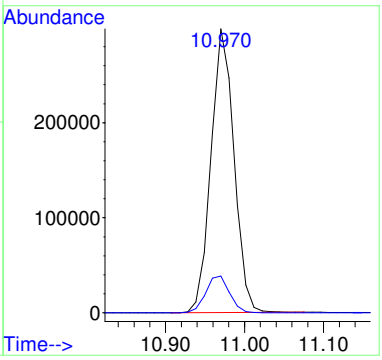
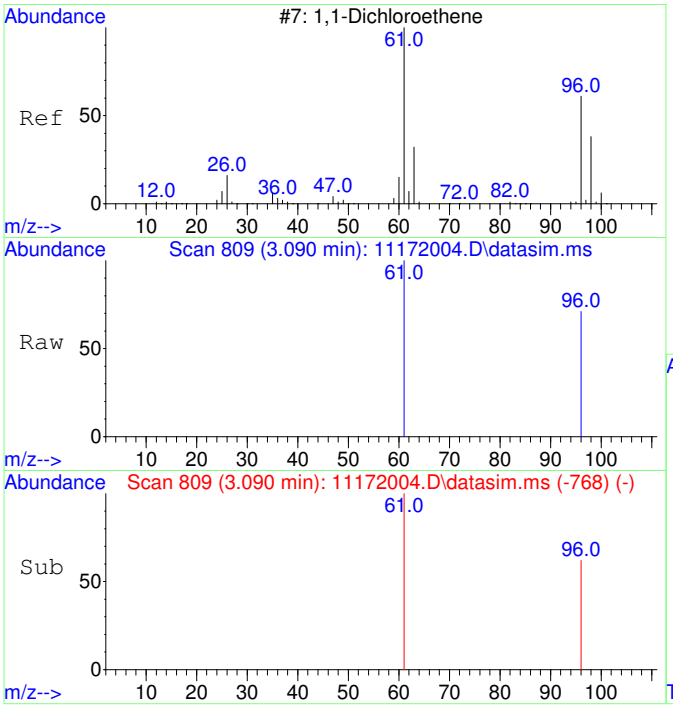


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:109 Resp: 604274

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

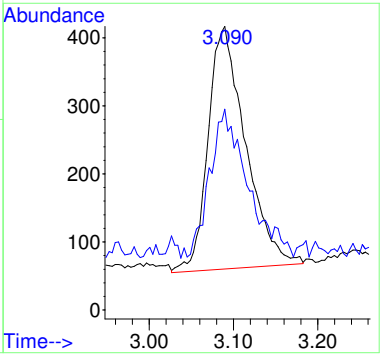


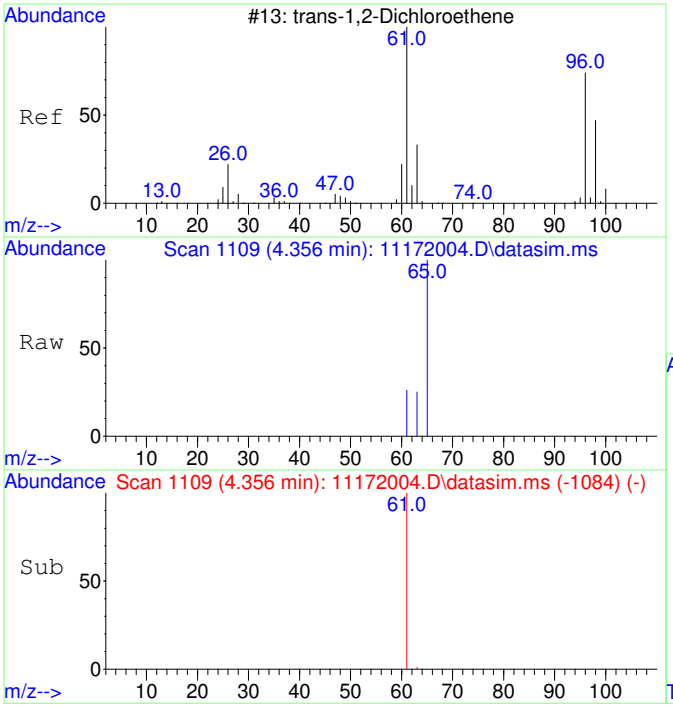


#2
1,1-Dichloroethene
Concen: 45.71 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 1103

Ion	Ratio	Lower	Upper
61	100		
96	77.5	37.2	97.2

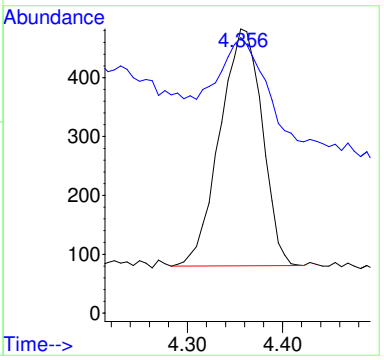


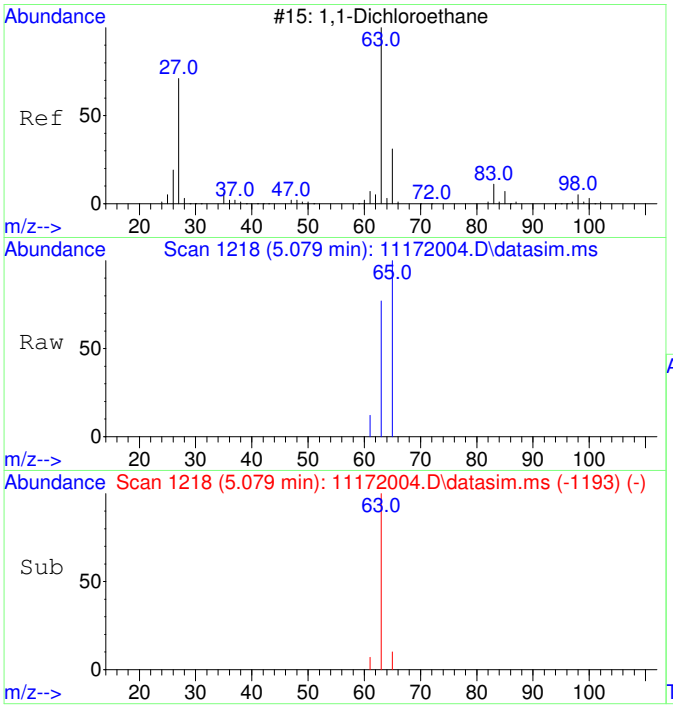


#3
trans-1,2-Dichloroethene
Concen: 44.80 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 1249

Ion	Ratio	Lower	Upper
61	100		
63	54.8	2.4	62.4

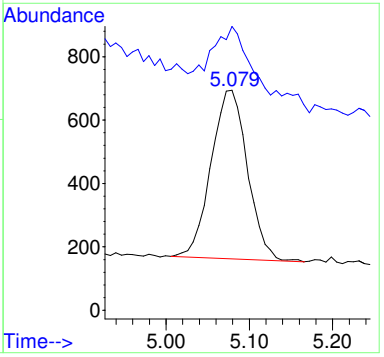


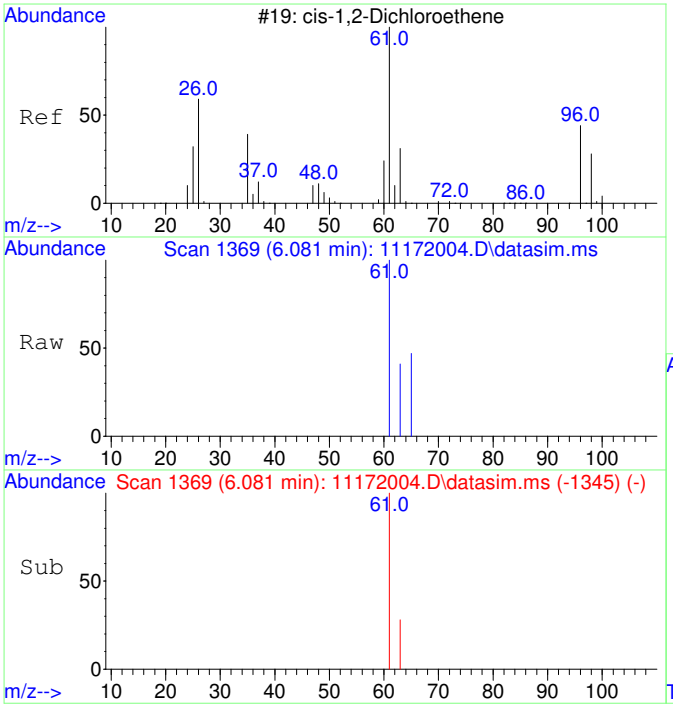


#4
1,1-Dichloroethane
Concen: 46.45 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. 0.013 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 63 Resp: 1612

Ion	Ratio	Lower	Upper
63	100		
65	71.0	1.8	61.8#

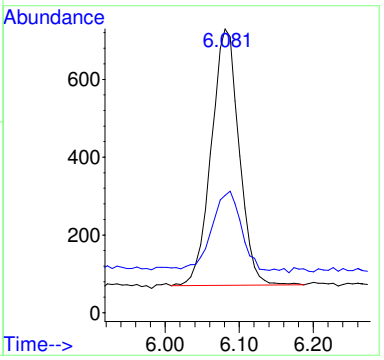


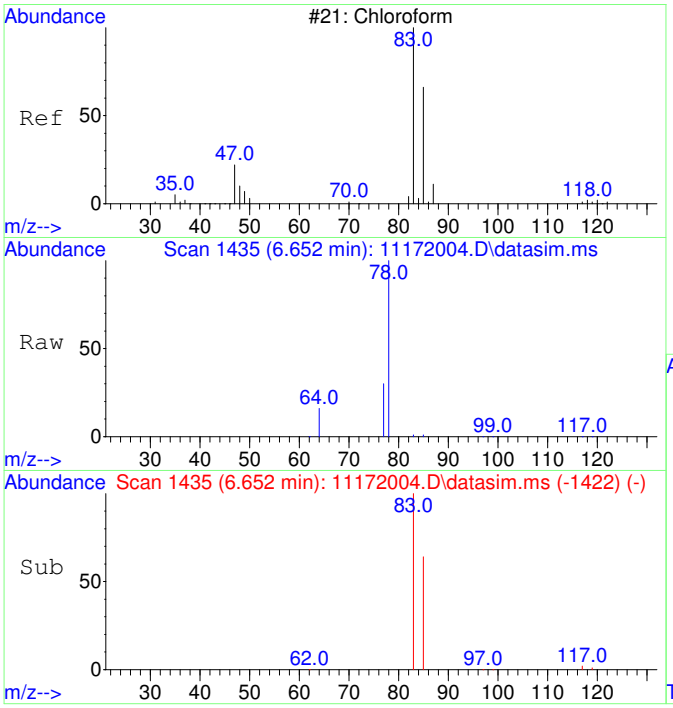


#5
cis-1,2-Dichloroethene
Concen: 46.90 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 1718

Ion	Ratio	Lower	Upper
61	100		
63	32.2	2.5	62.5

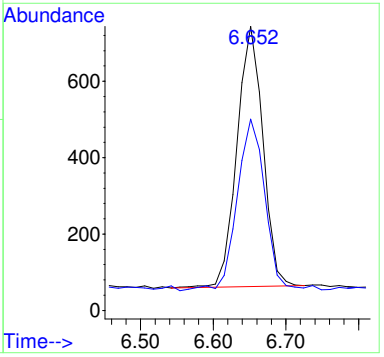


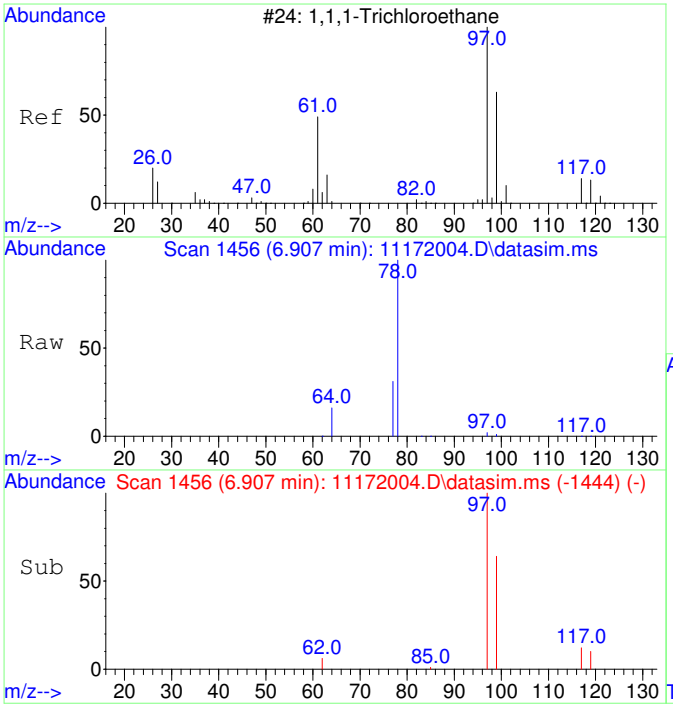


#6
Chloroform
Concen: 45.02 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 83 Resp: 1688

Ion	Ratio	Lower	Upper
83	100		
85	70.8	35.1	95.1

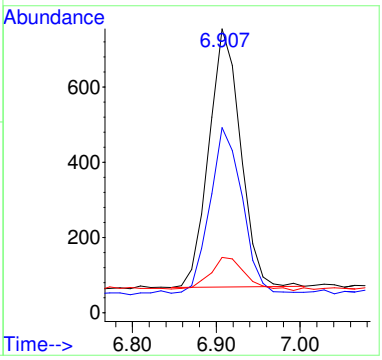


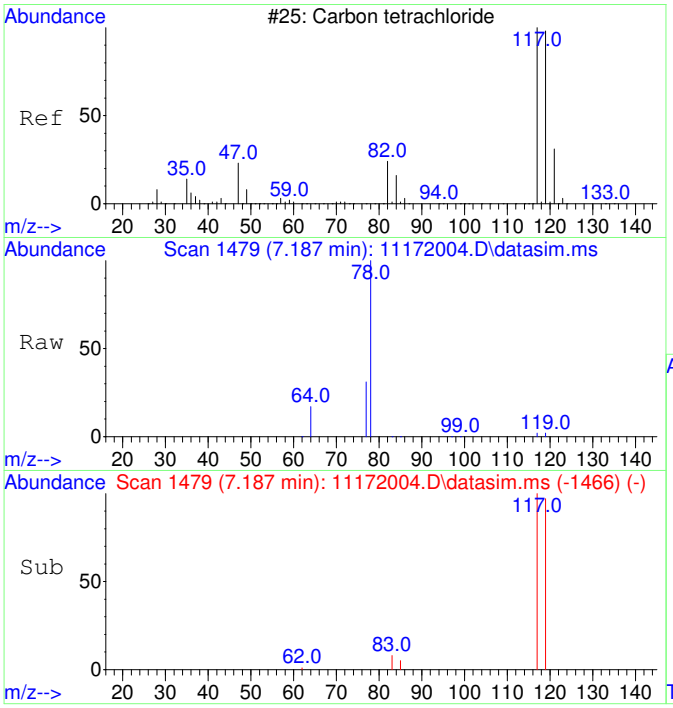


#7
1,1,1-Trichloroethane
Concen: 44.16 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 97 Resp: 1798

Ion	Ratio	Lower	Upper
97	100		
99	67.9	34.6	94.6
117	14.7	0.0	43.2

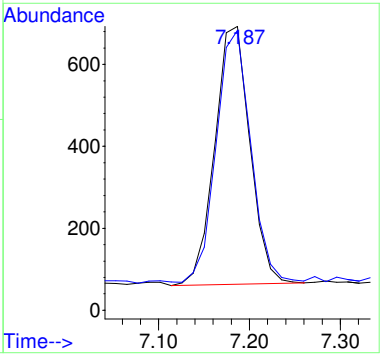


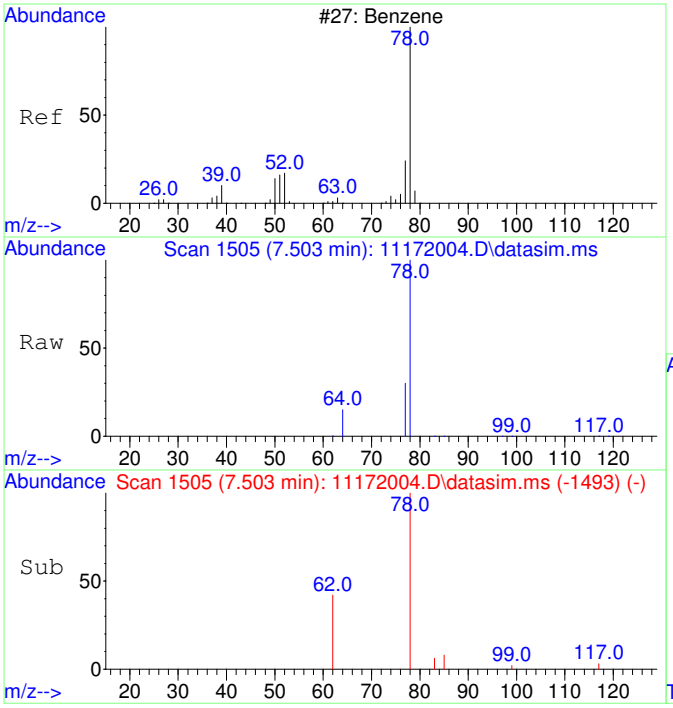


#8
Carbon tetrachloride
Concen: 44.28 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:117 Resp: 1697

Ion	Ratio	Lower	Upper
117	100		
119	95.6	66.4	126.4

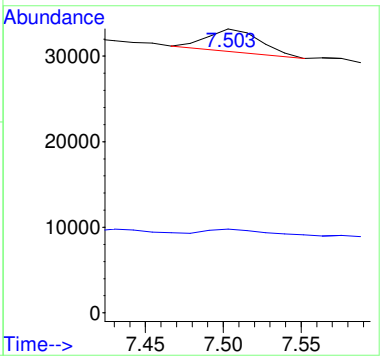


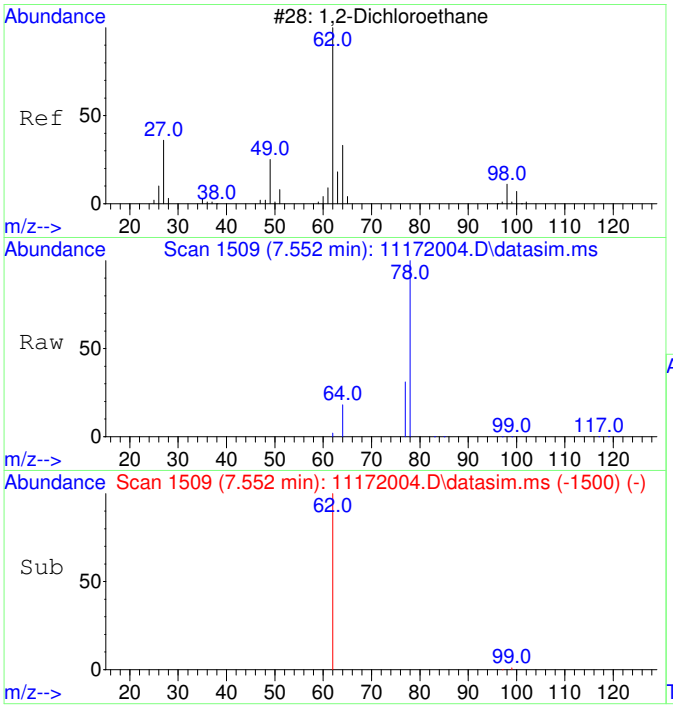


#9
Benzene
Concen: 56.75 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 78 Resp: 5827

Ion	Ratio	Lower	Upper
78	100		
77	43.1	0.0	53.2

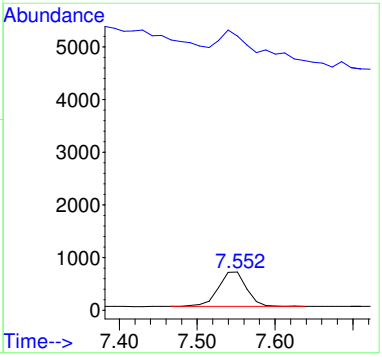


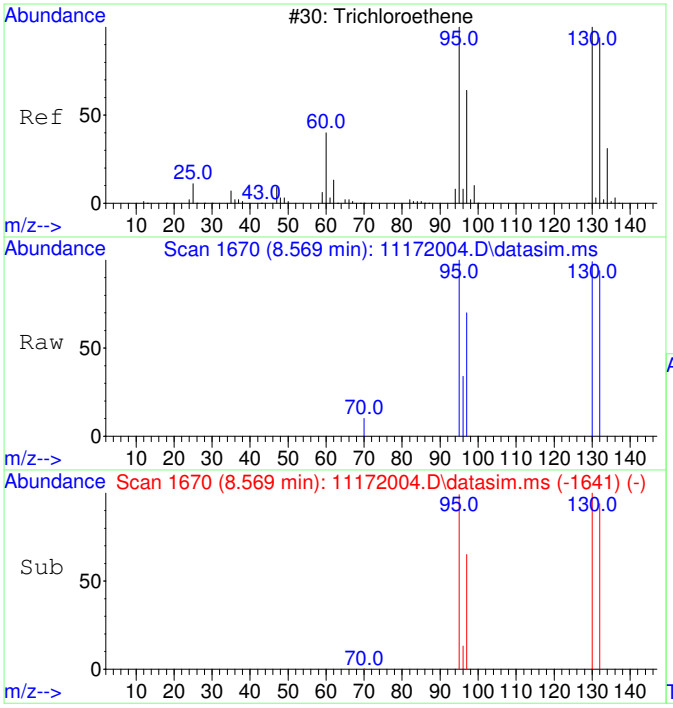


#10
1,2-Dichloroethane
Concen: 44.94 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 62 Resp: 1647

Ion	Ratio	Lower	Upper
62	100		
64	103.2	2.3	62.3#

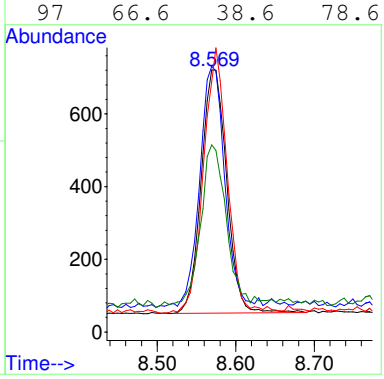


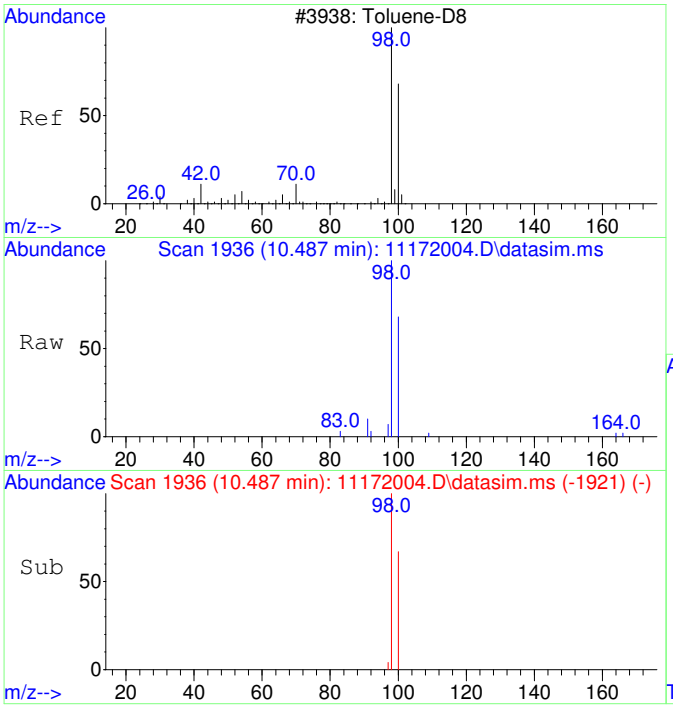


#11
Trichloroethene
Concen: 48.78 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:130 Resp: 1508

Ion	Ratio	Lower	Upper
130	100		
95	97.7	60.7	120.7
132	101.2	76.0	116.0
97	66.6	38.6	78.6

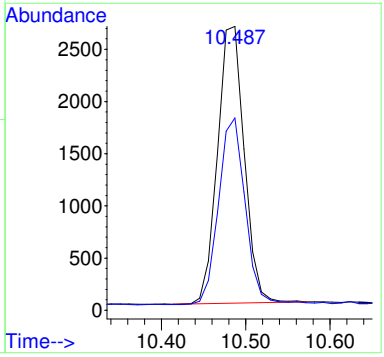


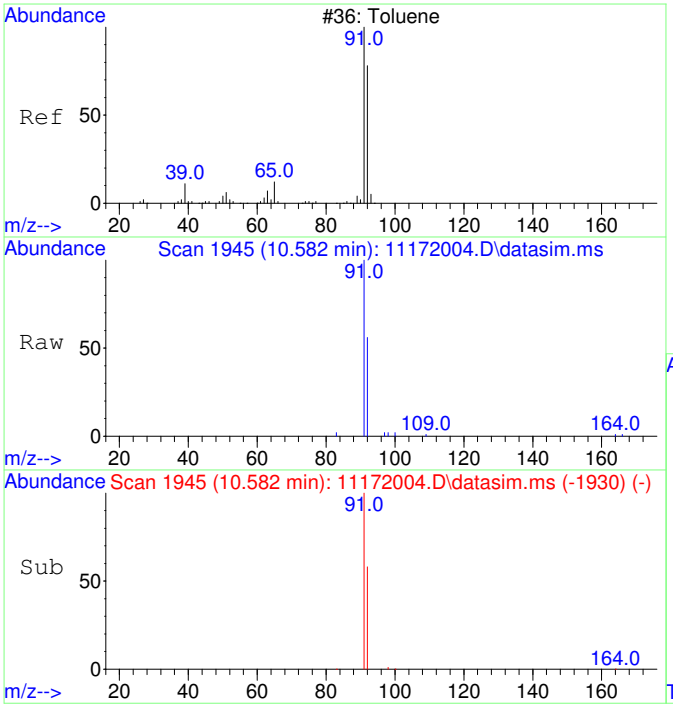


#12
Toluene-d8
Concen: 49.67 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 98 Resp: 5876

Ion	Ratio	Lower	Upper
98	100		
100	66.2	37.1	97.1

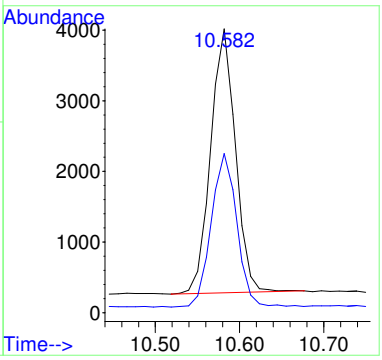


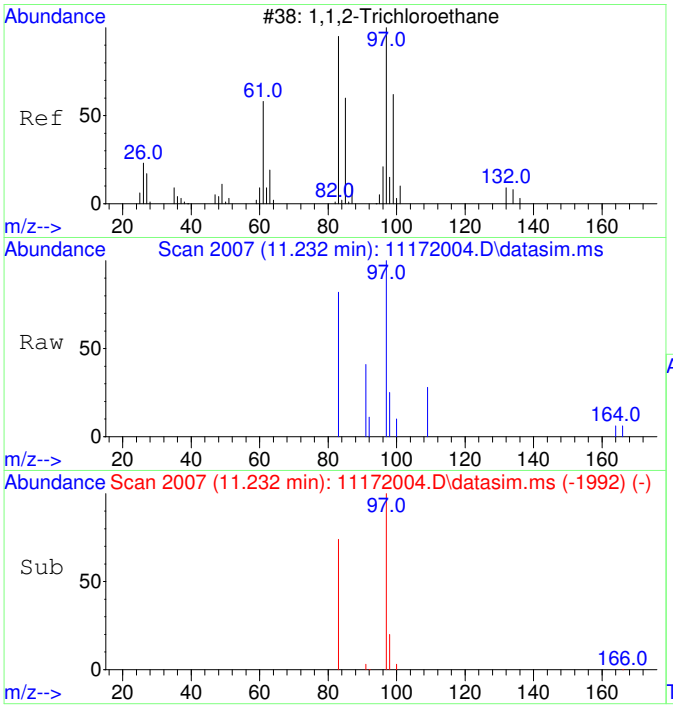


#13
Toluene
Concen: 50.71 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 7647

Ion	Ratio	Lower	Upper
91	100		
92	59.8	29.9	89.9

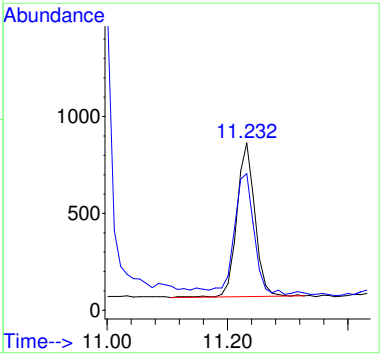


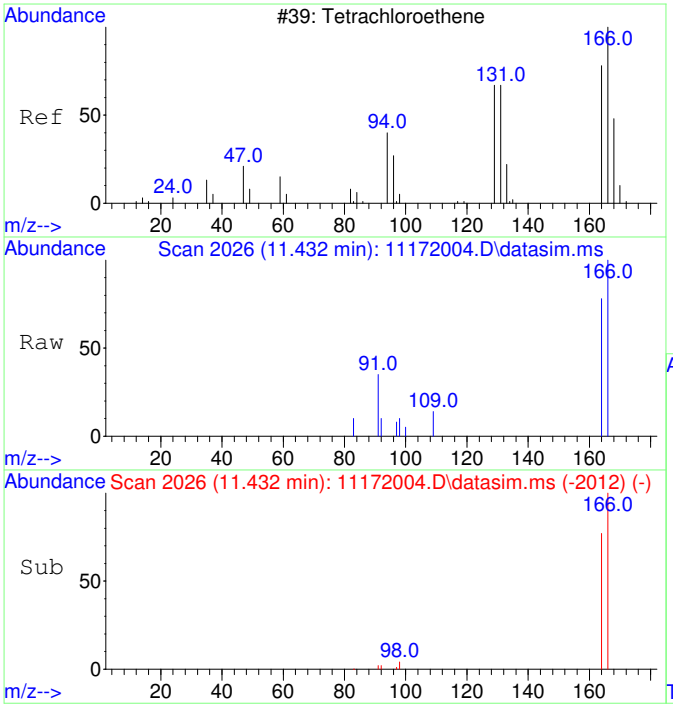


#14
1,1,2-Trichloroethane
Concen: 50.54 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 97 Resp: 1661

Ion	Ratio	Lower	Upper
97	100		
83	83.7	51.2	111.2

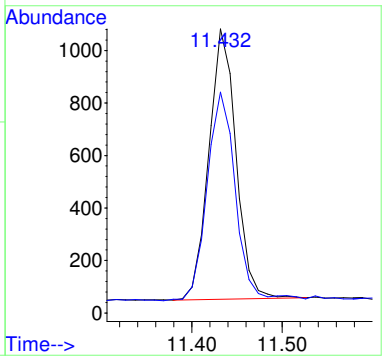


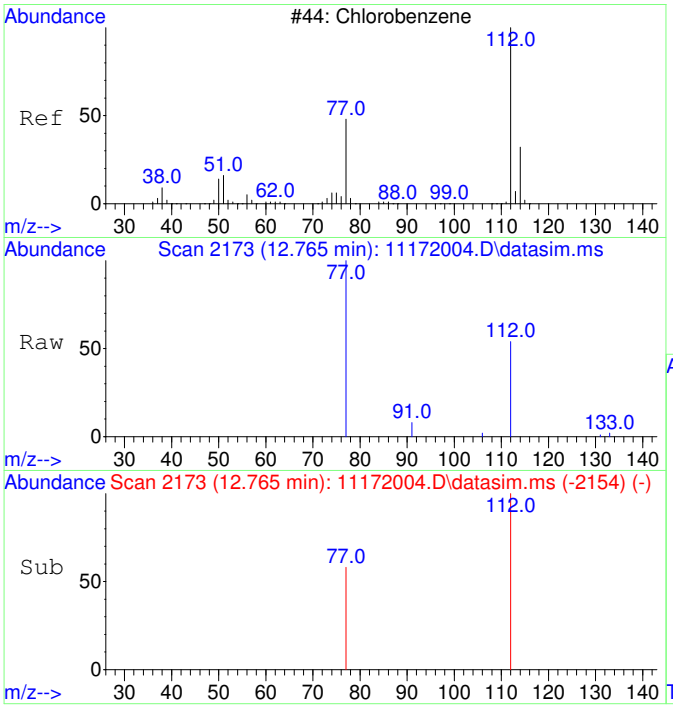


#15
Tetrachloroethene
Concen: 49.22 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:166 Resp: 2148

Ion	Ratio	Lower	Upper
166	100		
164	79.4	47.8	107.8

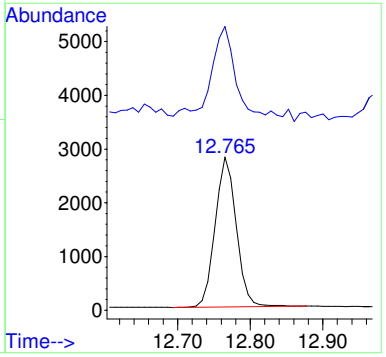


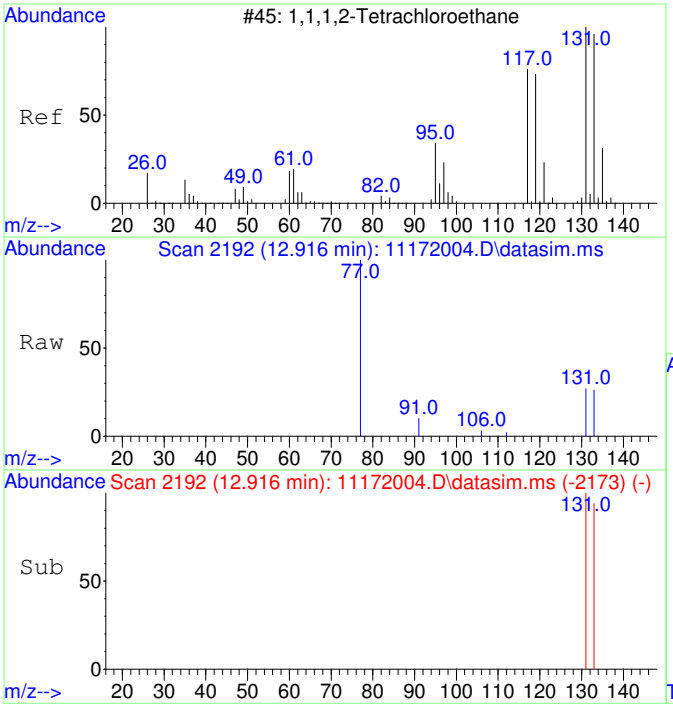


#16
Chlorobenzene
Concen: 52.20 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:112 Resp: 5637

Ion	Ratio	Lower	Upper
112	100		
77	64.7	23.6	83.6

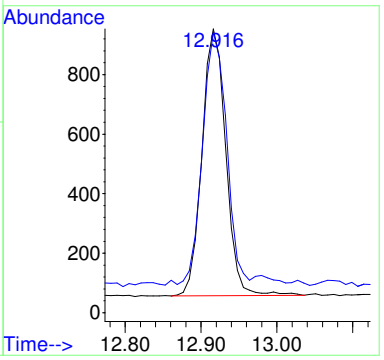


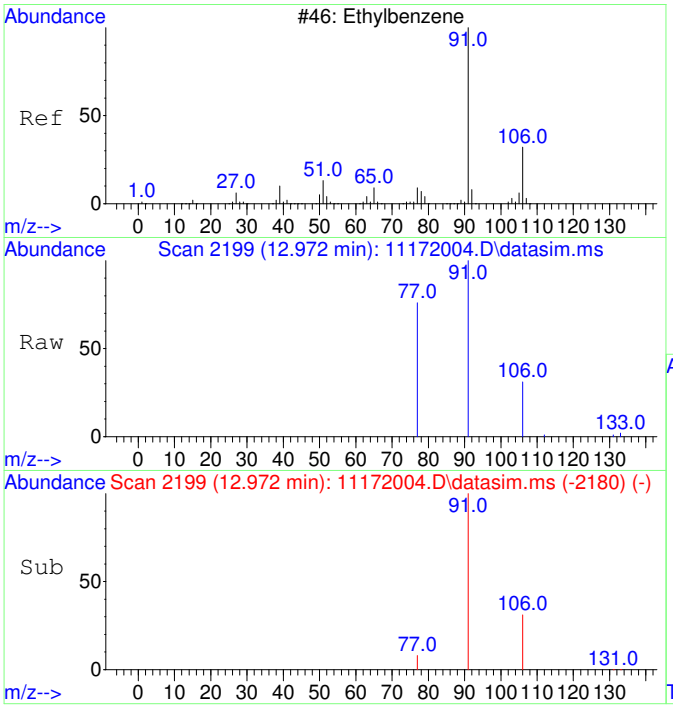


#17
1,1,1,2-Tetrachloroethane
Concen: 50.63 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:131 Resp: 1959

Ion	Ratio	Lower	Upper
131	100		
133	96.0	66.3	126.3

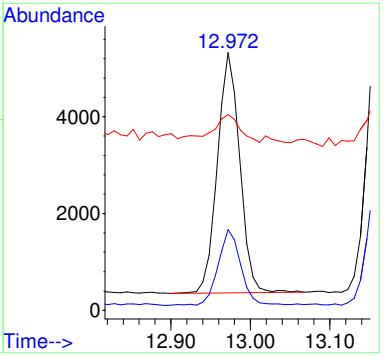


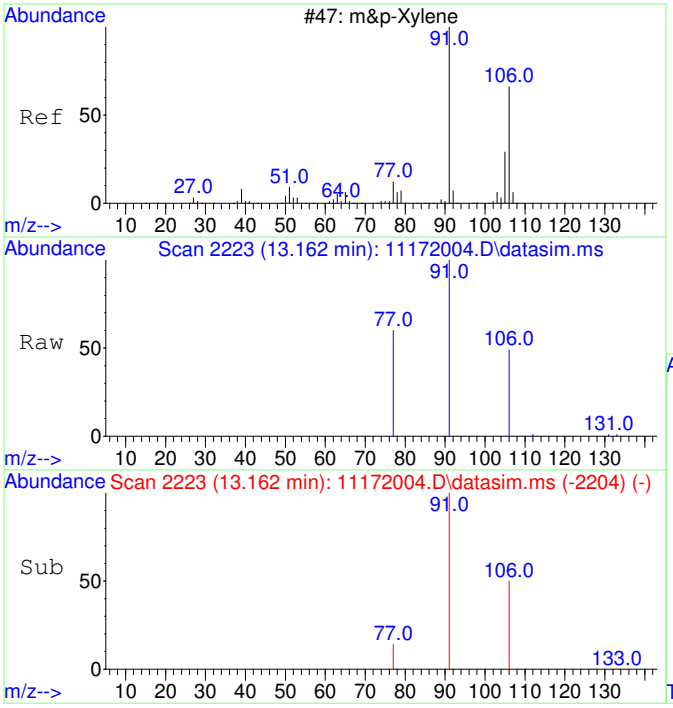


#18
Ethylbenzene
Concen: 52.93 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 9717

Ion	Ratio	Lower	Upper
91	100		
106	32.5	3.0	63.0
77	16.0	0.0	38.2

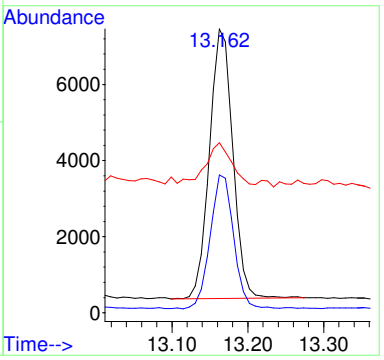


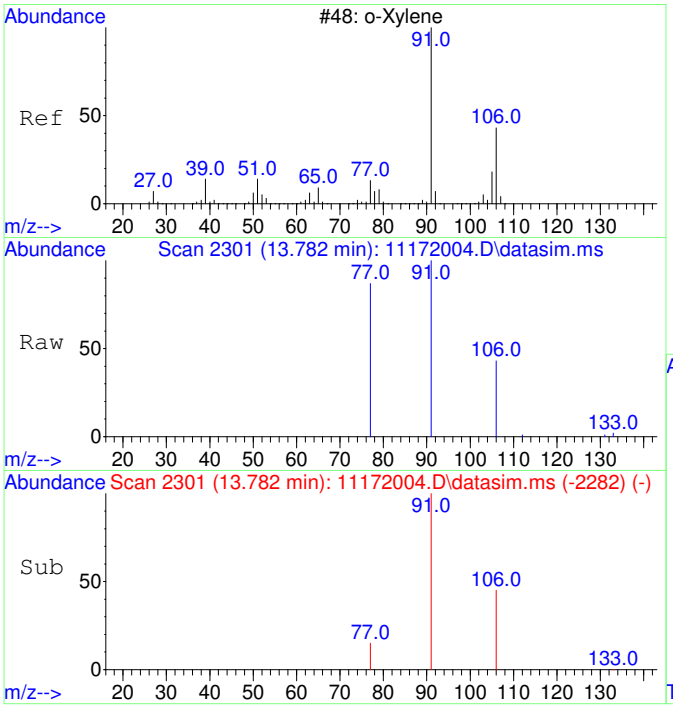


#19
m&p-Xylene
Concen: 105.54 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 15142

Ion	Ratio	Lower	Upper
91	100		
106	49.5	22.2	82.2
77	16.7	0.0	42.4

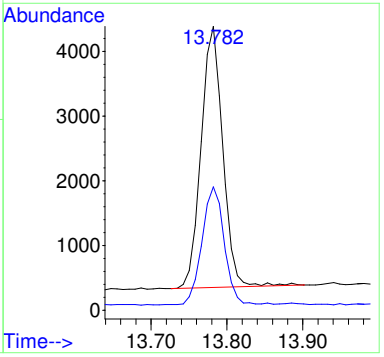


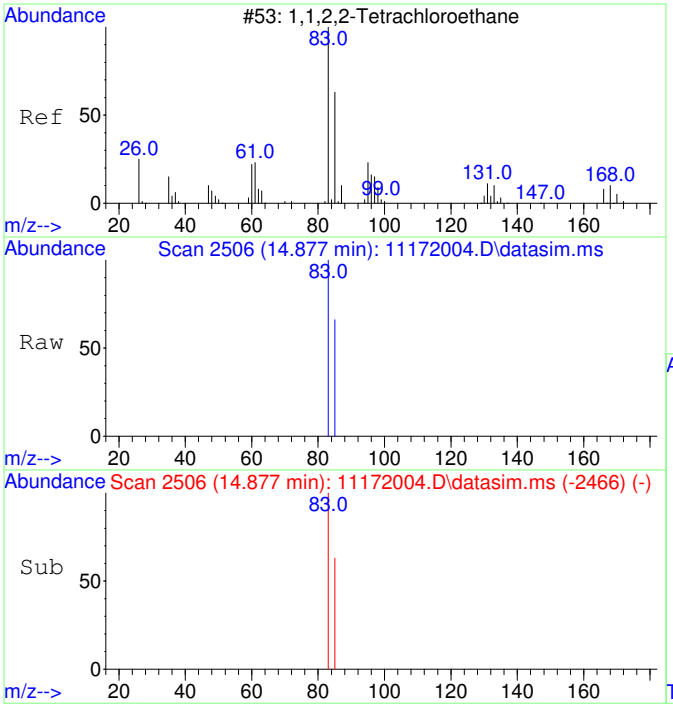


#20
o-Xylene
Concen: 52.20 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 8002

Ion	Ratio	Lower	Upper
91	100		
106	45.6	19.2	79.2

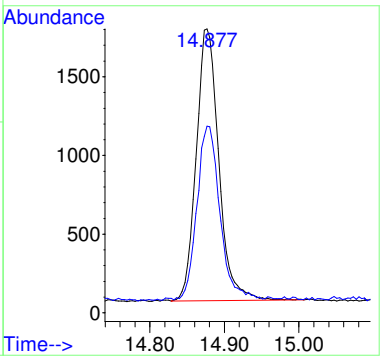


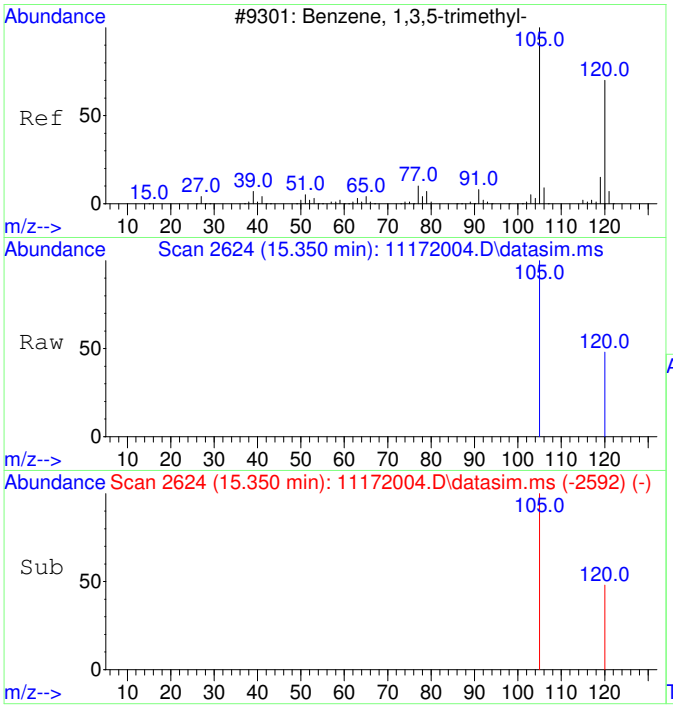


#21
1,1,2,2-Tetrachloroethane
Concen: 53.48 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 83 Resp: 3633

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.8	94.8

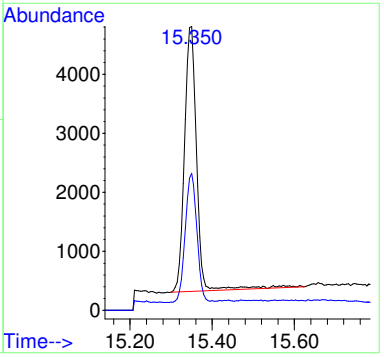


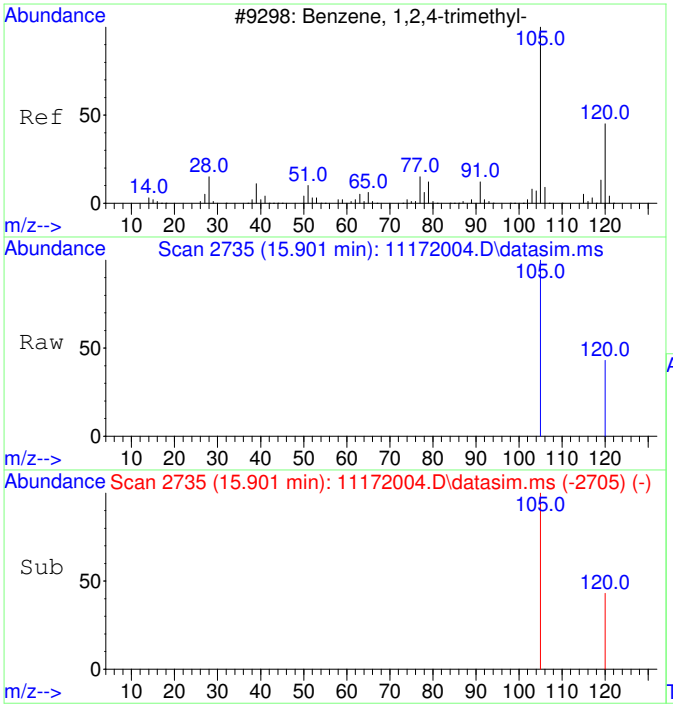


#22
1,3,5-Trimethylbenzene
Concen: 56.53 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:105 Resp: 9223

Ion	Ratio	Lower	Upper
105	100		
120	47.8	21.1	81.1

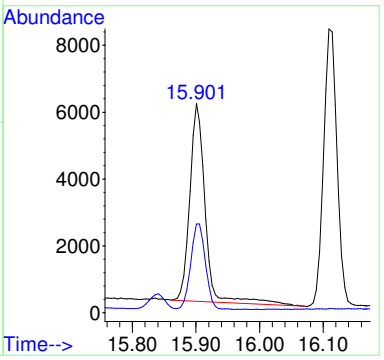


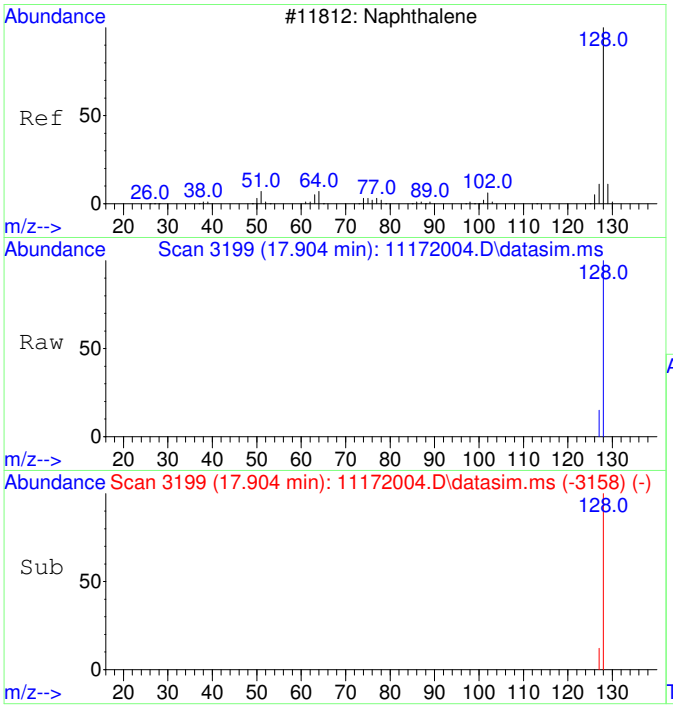


#23
1,2,4-Trimethylbenzene
Concen: 58.58 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:105 Resp: 9927

Ion	Ratio	Lower	Upper
105	100		
120	40.5	17.2	77.2

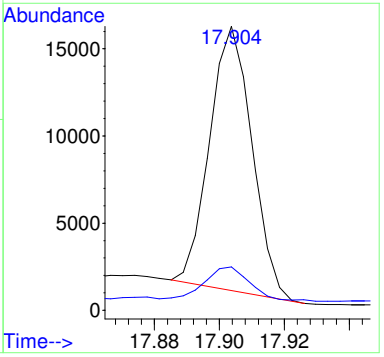


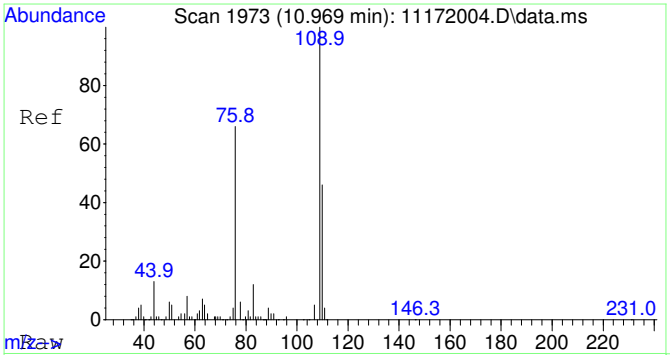


#24
Naphthalene
Concen: 50.79 ug/L
RT: 17.904 min Scan# 3199
Delta R.T. 0.001 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:128 Resp: 13603

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.5

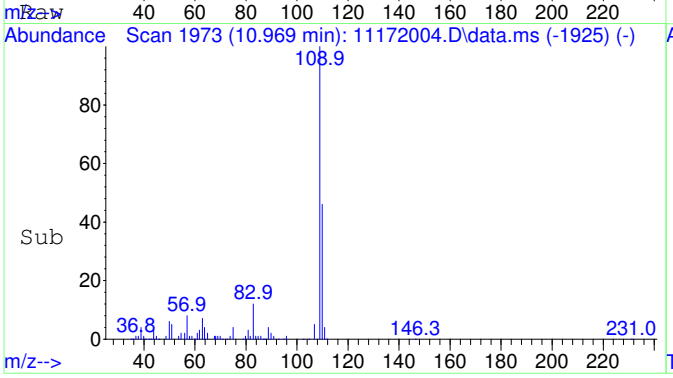


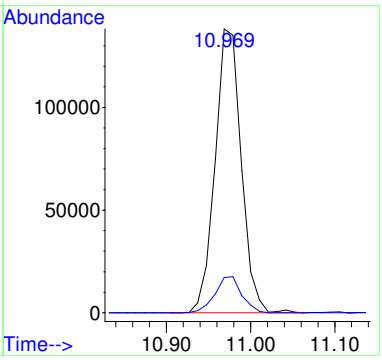


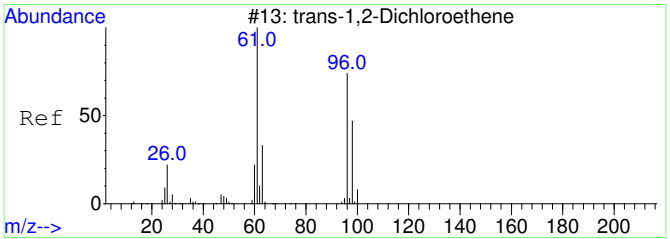
#25
2-Fluorotoluene SCAN
Concen: 5067.92 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:109 Resp: 298529

Ion	Ratio	Lower	Upper
109	100		
83	13.1	0.0	43.8



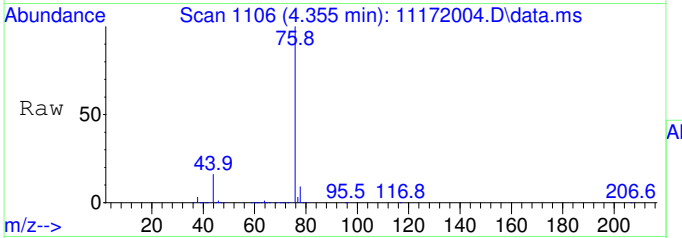


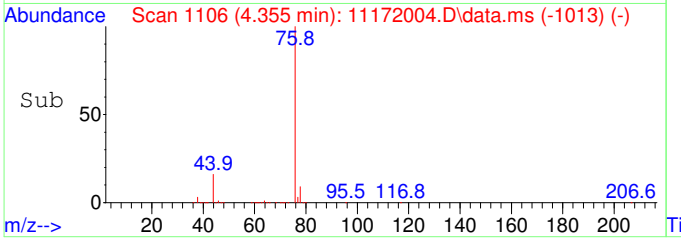


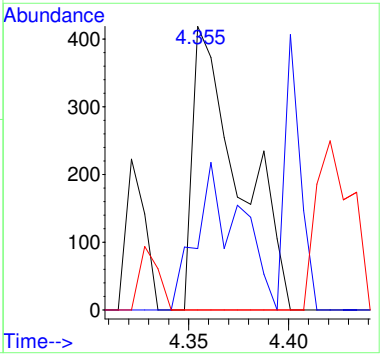
#27
trans-1,2-Dichloroethene SCAN
Concen: 43.99 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

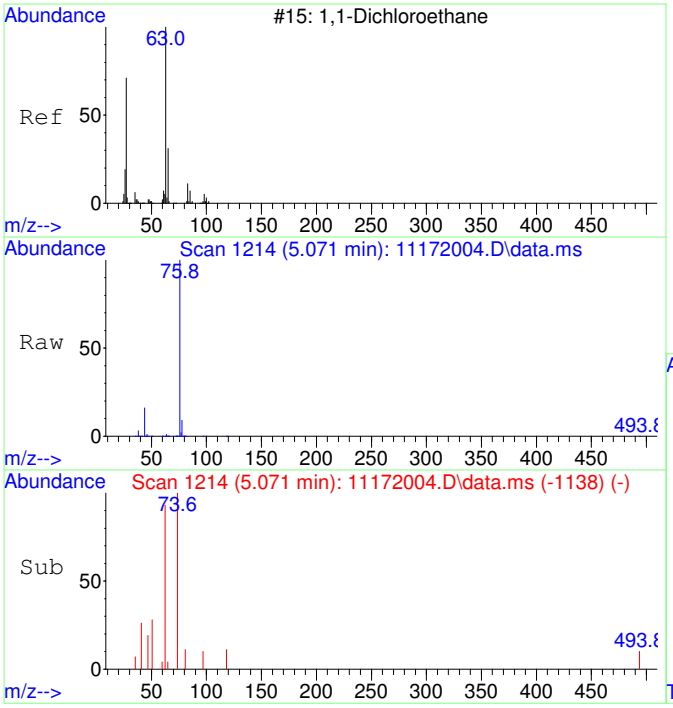
Tgt Ion: 61 Resp: 681

Ion	Ratio	Lower	Upper
61	100		
96	49.0	49.0	109.0
98	0.0	20.5	80.5#





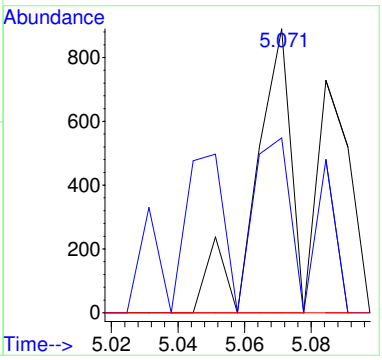


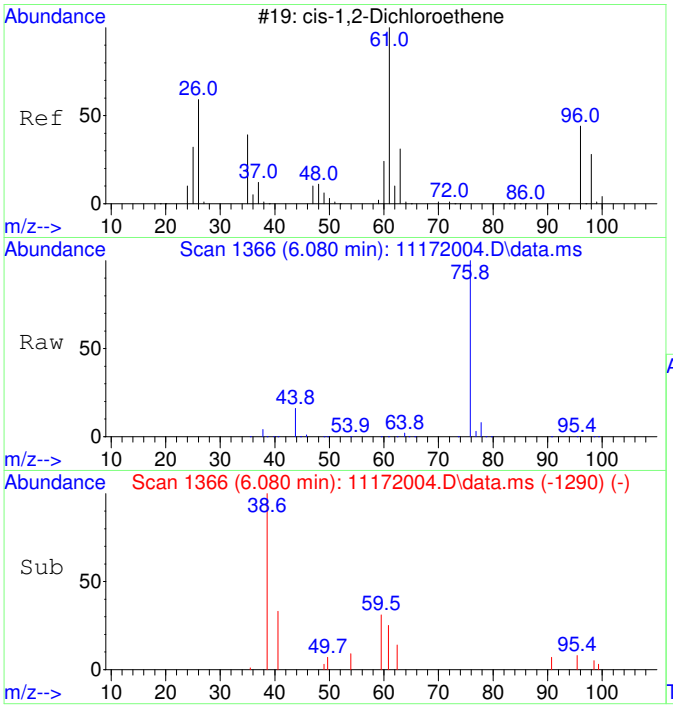


#28
1,1-Dichloroethane SCAN
Concen: 36.62 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 63 Resp: 656

Ion	Ratio	Lower	Upper
63	100		
65	92.5	1.3	61.3#
83	0.0	0.0	45.9

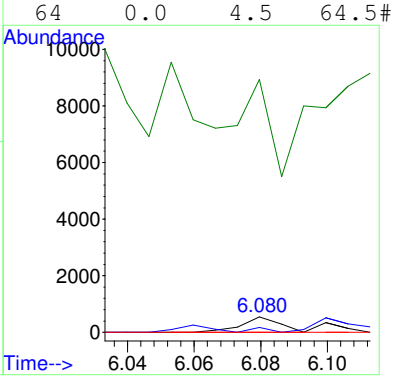


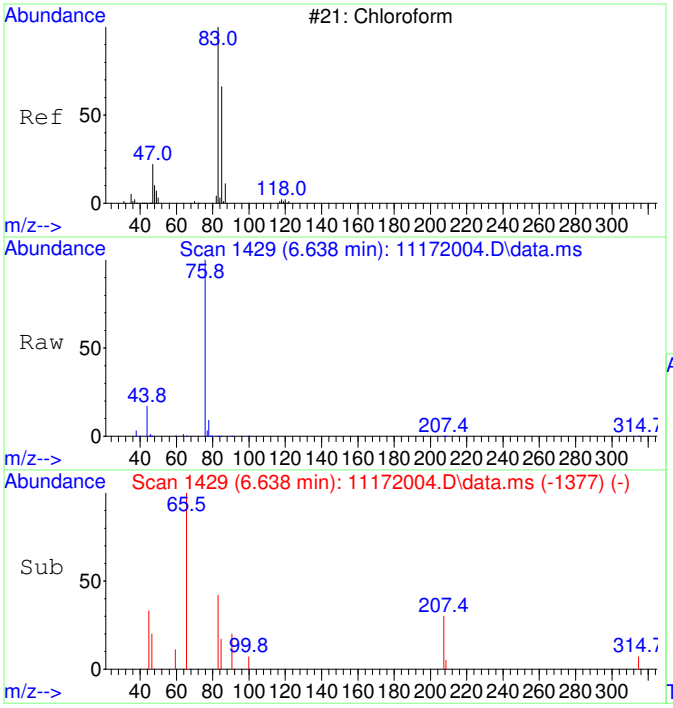


#29
cis-1,2-Dichloroethene SCAN
Concen: 22.56 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. 0.007 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 61 Resp: 433

Ion	Ratio	Lower	Upper
61	100		
96	43.4	39.9	99.9
98	0.0	13.5	73.5#
64	0.0	4.5	64.5#

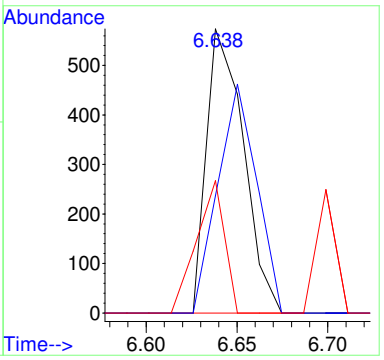


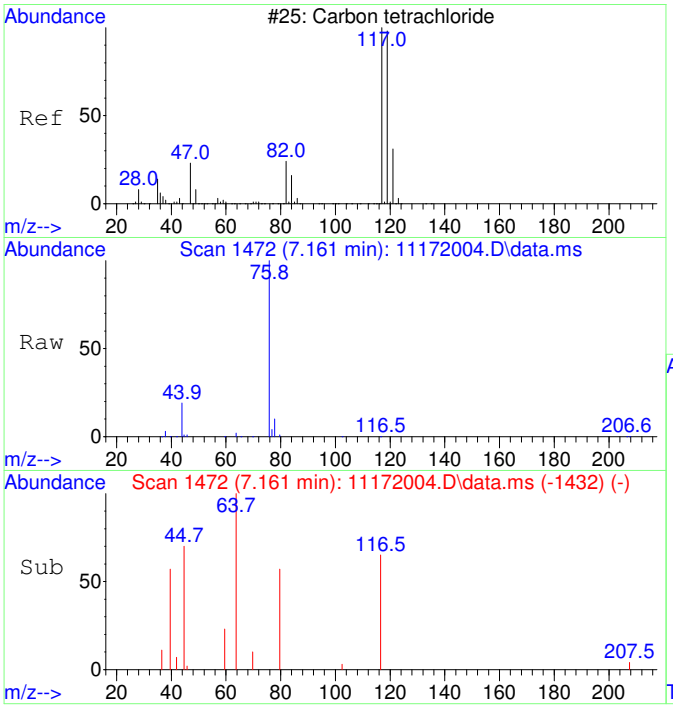


#30
Chloroform SCAN
Concen: 39.05 ug/L
RT: 6.638 min Scan# 1429
Delta R.T. -0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 83 Resp: 813

Ion	Ratio	Lower	Upper
83	100		
85	84.5	34.6	94.6
47	35.2	0.0	53.4

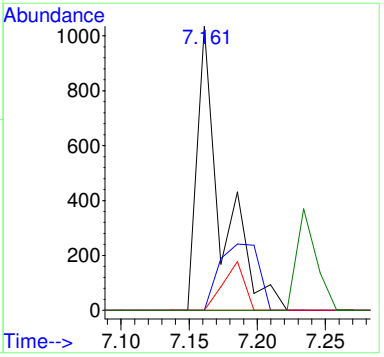


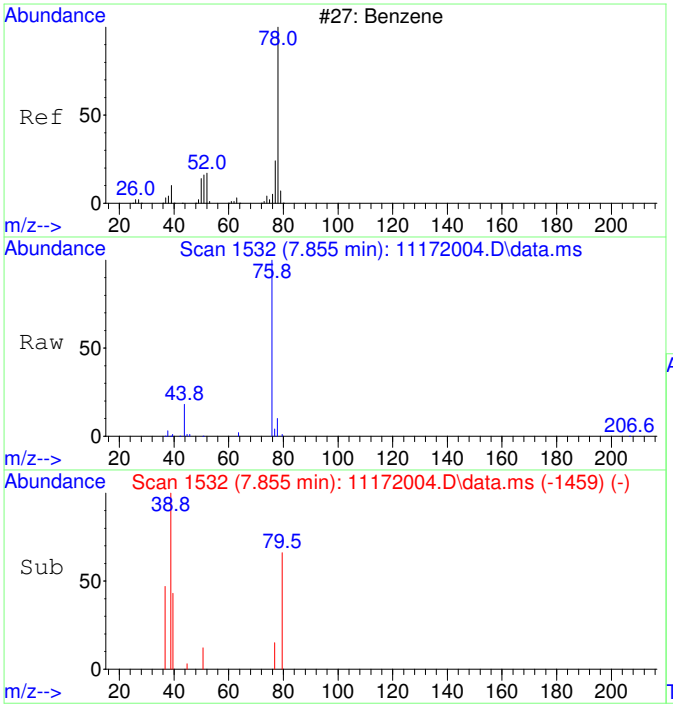


#32
Carbon tetrachloride SCAN
Concen: 65.99 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.012 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:117 Resp: 1306

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	0.0	0.0	59.2

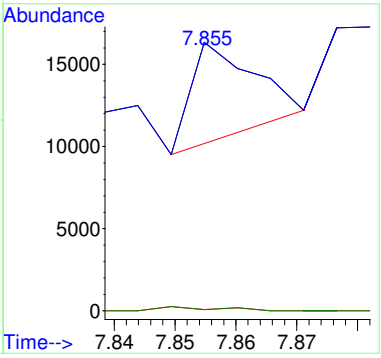


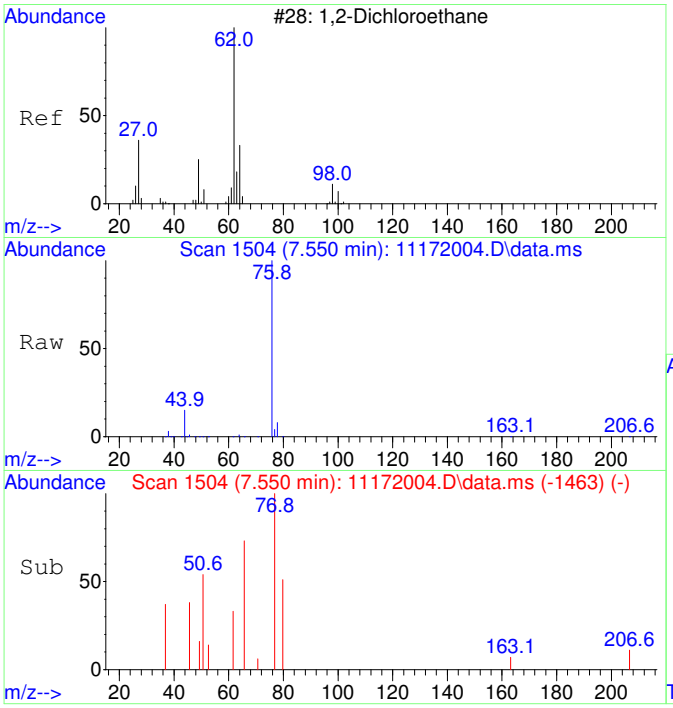


#33
Benzene SCAN
Concen: 87.74 ug/L
RT: 7.855 min Scan# 1532
Delta R.T. 0.353 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 78 Resp: 4583

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.8	0.0	47.9
51	3.8	0.0	44.1

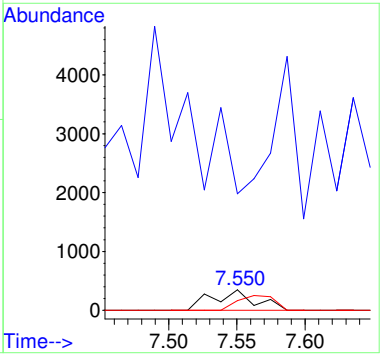


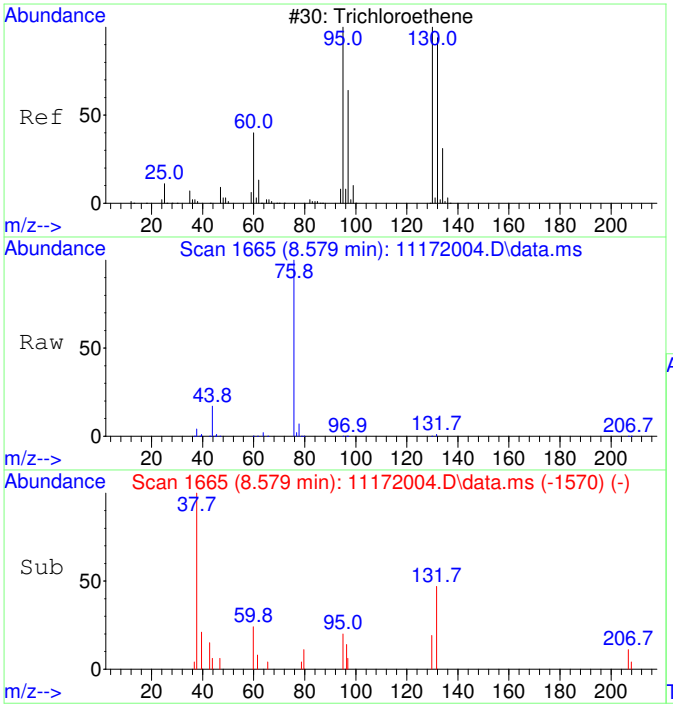


#34
1,2-Dichloroethane SCAN
Concen: 39.56 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 62 Resp: 763

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	62.1	3.9	63.9

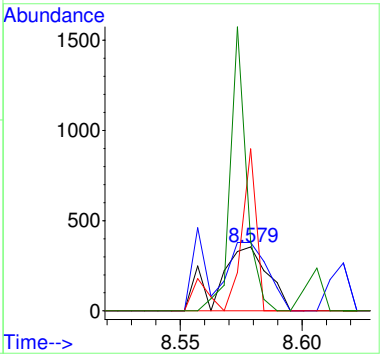


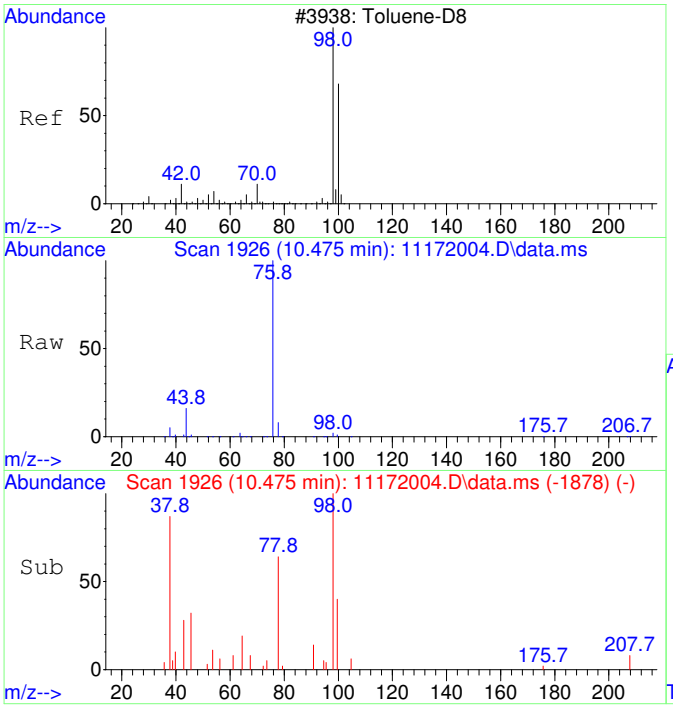


#35
Trichloroethene SCAN
Concen: 34.97 ug/L
RT: 8.579 min Scan# 1665
Delta R.T. 0.016 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:130 Resp: 502

Ion	Ratio	Lower	Upper
130	100		
95	70.7	60.5	120.5
132	72.3	59.6	119.6
97	145.2	28.2	88.2#

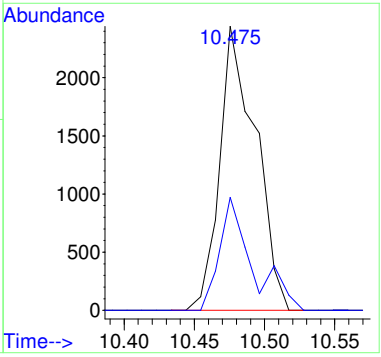


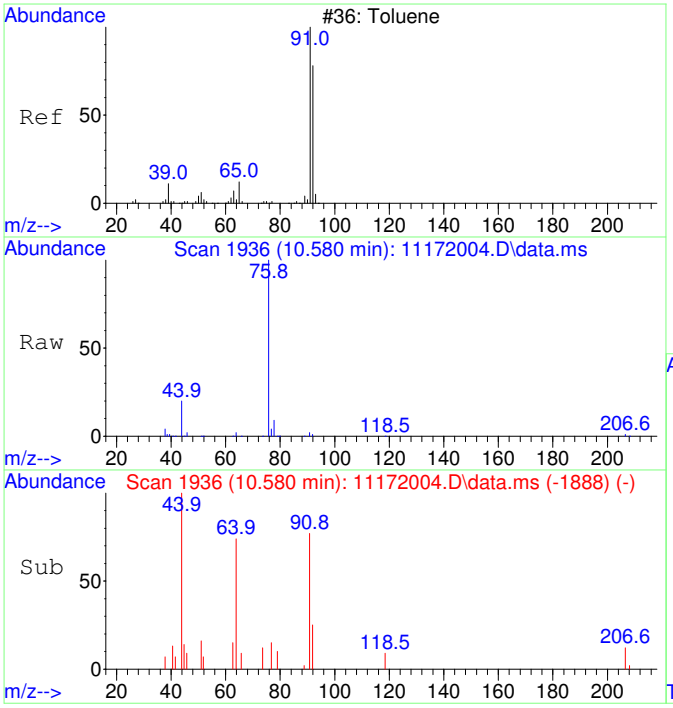


#36
Toluene-d8 SCAN
Concen: 75.68 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 98 Resp: 4360

Ion	Ratio	Lower	Upper
98	100		
100	36.2	40.0	100.0#

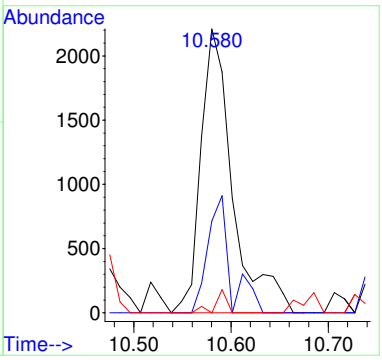


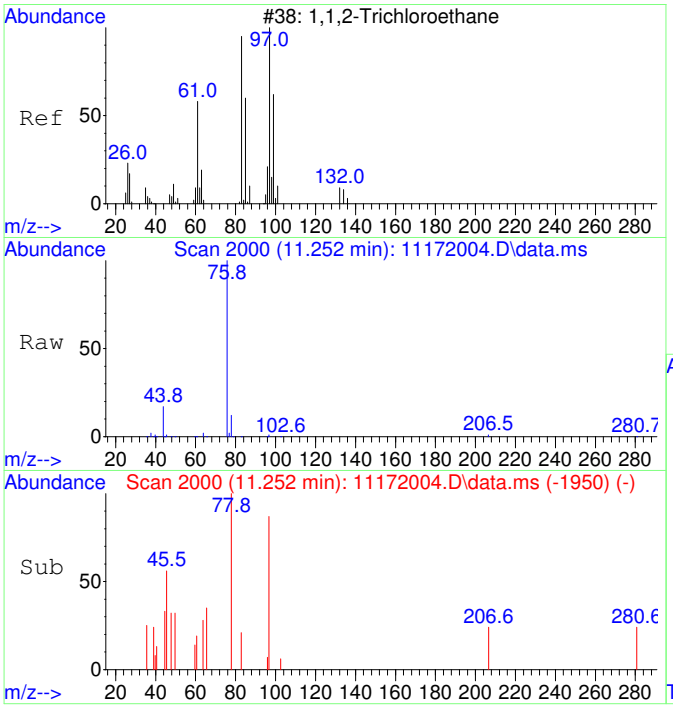


#37
Toluene SCAN
Concen: 68.33 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 5041

Ion	Ratio	Lower	Upper
91	100		
92	29.4	28.3	88.3
65	2.9	0.0	41.0

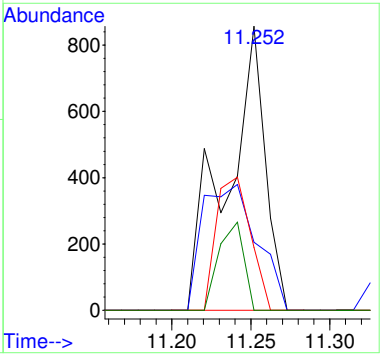


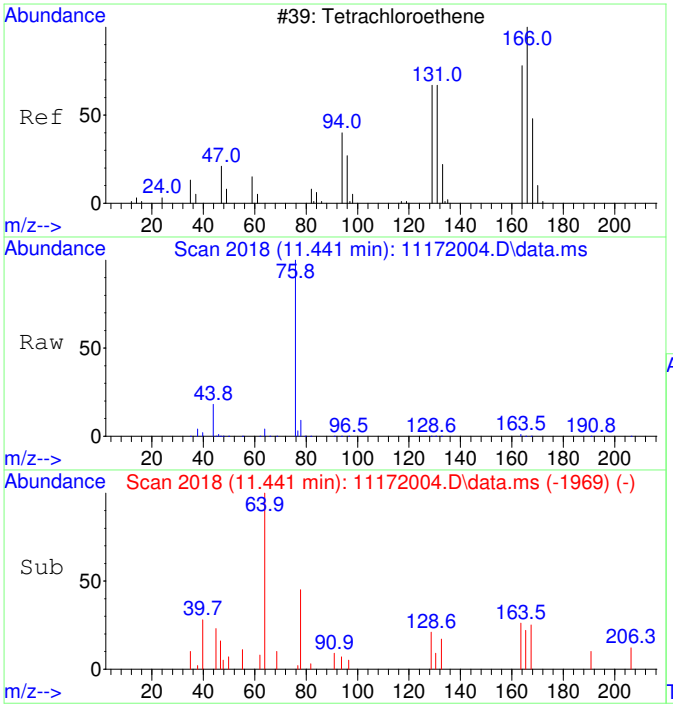


#38
1,1,2-Trichloroethane SCAN
Concen: 88.29 ug/L
RT: 11.252 min Scan# 2000
Delta R.T. 0.021 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 97 Resp: 1462

Ion	Ratio	Lower	Upper
97	100		
83	62.2	57.7	117.7
61	41.3	32.1	92.1
99	20.1	36.7	96.7#

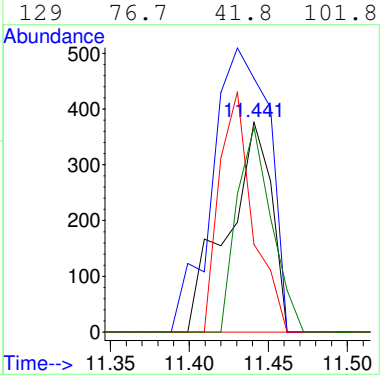


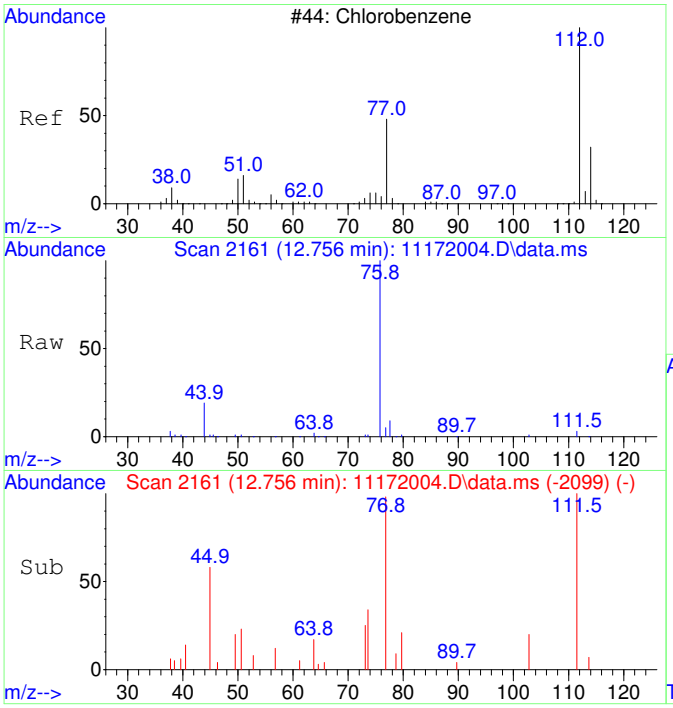


#39
Tetrachloroethene SCAN
Concen: 41.47 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:166 Resp: 735

Ion	Ratio	Lower	Upper
166	100		
164	173.9	50.9	110.9#
131	86.7	38.7	98.7
129	76.7	41.8	101.8

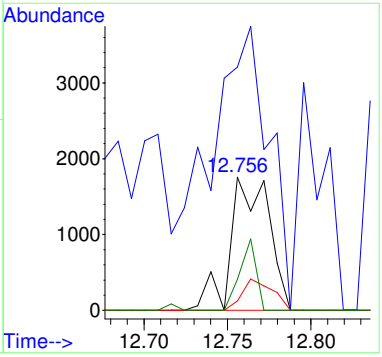


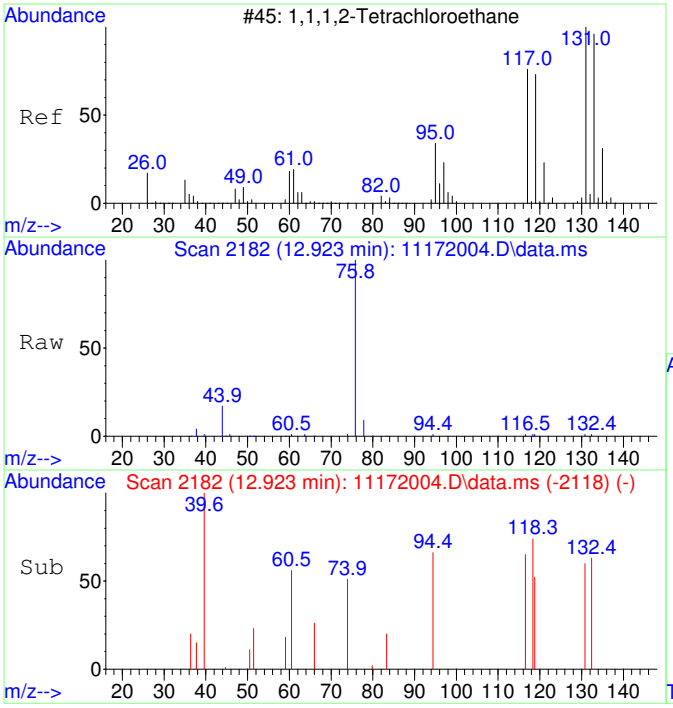


#40
Chlorobenzene SCAN
Concen: 56.45 ug/L
RT: 12.756 min Scan# 2161
Delta R.T. -0.008 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:112 Resp: 2846

Ion	Ratio	Lower	Upper
112	100		
77	214.2	28.2	88.2#
114	18.3	2.3	62.3
51	22.6	0.0	50.1

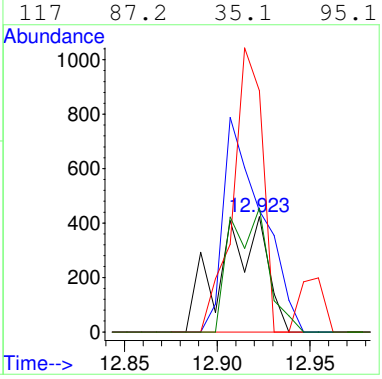


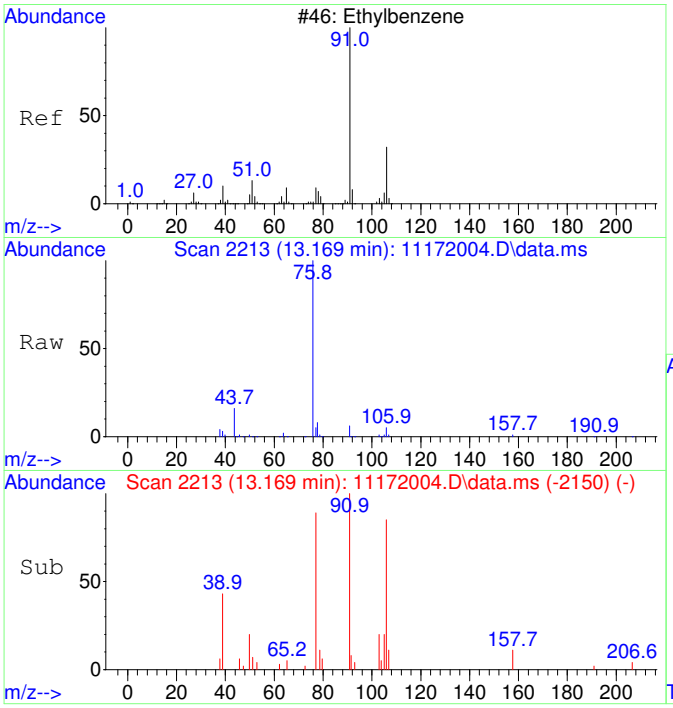


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 39.77 ug/L
RT: 12.923 min Scan# 2182
Delta R.T. 0.008 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:131 Resp: 742

Ion	Ratio	Lower	Upper
131	100		
133	154.7	66.9	126.9#
119	157.1	40.4	100.4#
117	87.2	35.1	95.1

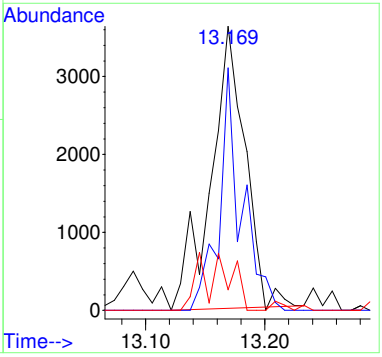


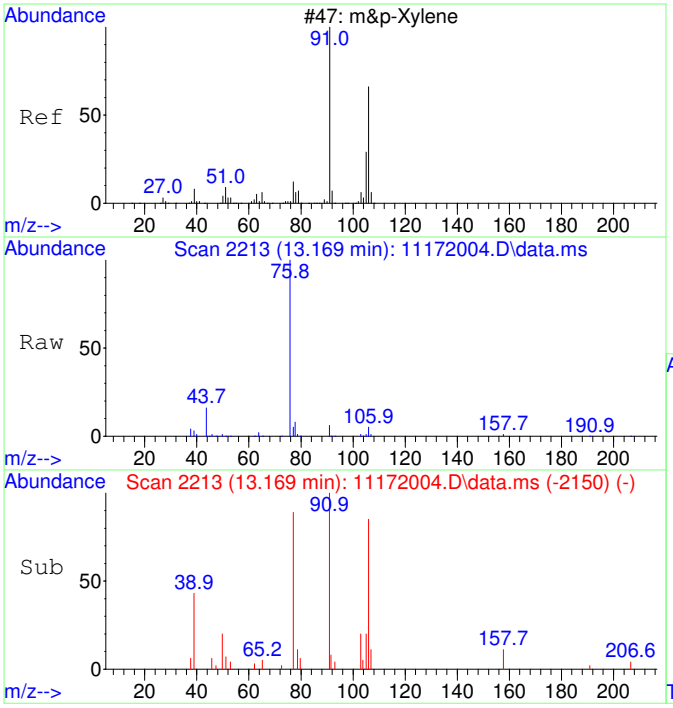


#42
Ethylbenzene SCAN
Concen: 53.91 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 7246

Ion	Ratio	Lower	Upper
91	100		
106	55.3	23.1	83.1
51	9.5	0.0	40.1

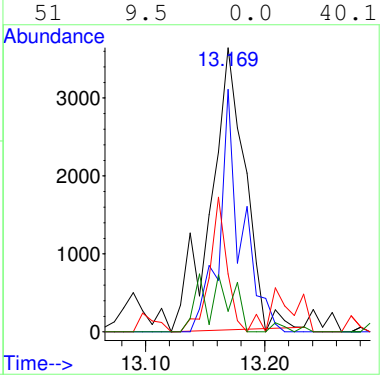


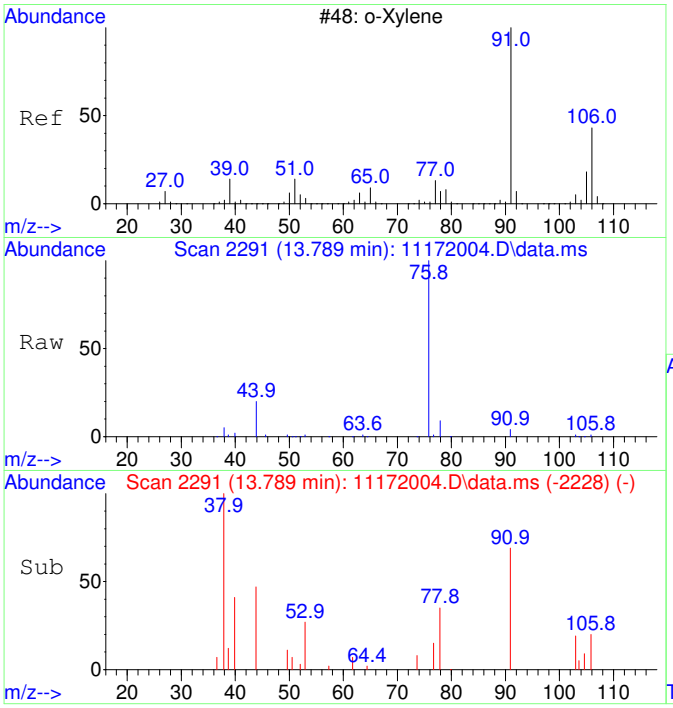


#43
m&p-Xylene SCAN
Concen: 53.91 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 7246

Ion	Ratio	Lower	Upper
91	100		
106	55.3	23.1	83.1
105	23.9	0.0	54.7
51	9.5	0.0	40.1

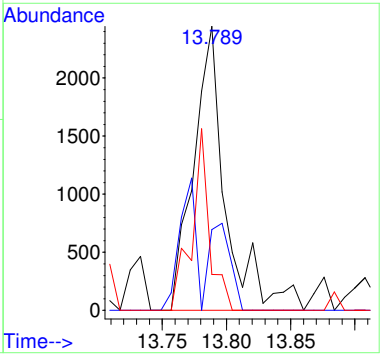


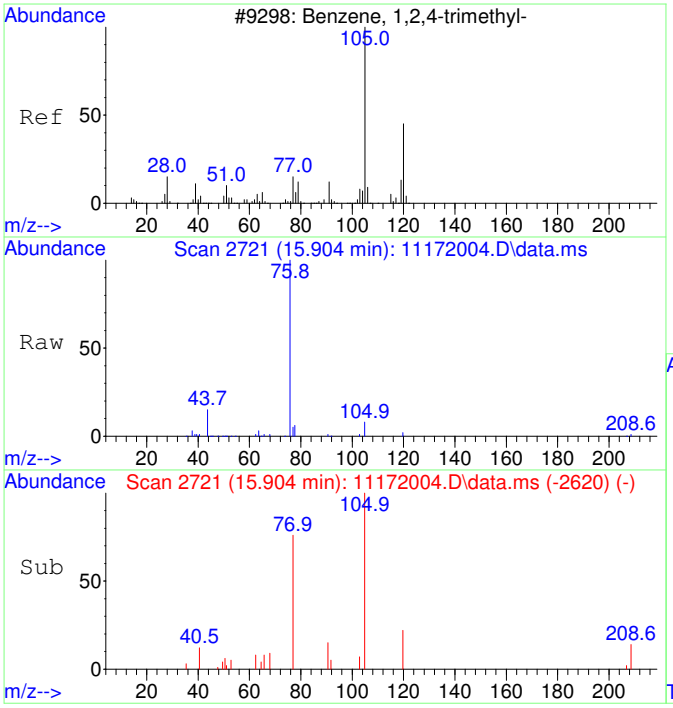


#44
o-Xylene SCAN
Concen: 59.48 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion: 91 Resp: 4279

Ion	Ratio	Lower	Upper
91	100		
106	20.4	18.0	78.0
105	35.0	0.0	56.6

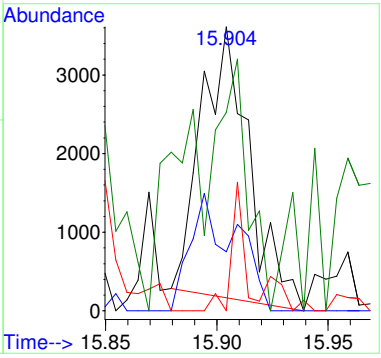


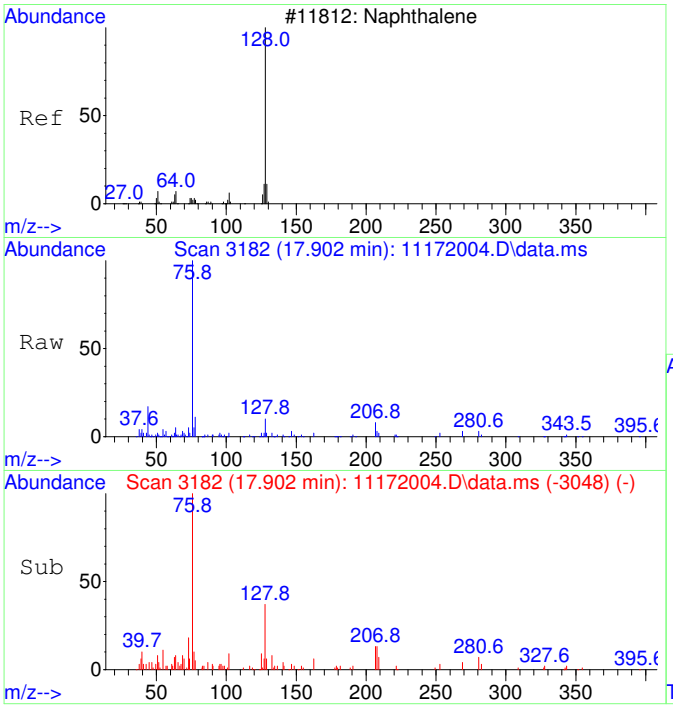


#47
1,2,4-Trimethylbenzene SCAN
Concen: 66.05 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:105 Resp: 5124

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.9	76.9#
119	10.1	0.0	41.9
77	43.3	0.0	42.3#

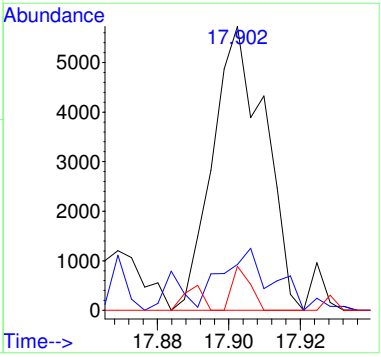




#48
Naphthalene SCAN
Concen: 49.60 ug/L
RT: 17.902 min Scan# 3182
Delta R.T. -0.003 min
Lab File: 11172004.D
Acq: 17 Nov 2020 9:05

Tgt Ion:128 Resp: 5823

Ion	Ratio	Lower	Upper
128	100		
127	19.6	0.0	44.0
129	5.4	0.0	40.8



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 20316C
Client: California Site Cleanup Section 3
Project: MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID: AG5975CV
Calibration: 2008017
Sequence: S20K077

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S20K077-CRL1	1,1-Dichloroethene	50.0	43.6	87	ug/L	60 - 140
	trans-1,2-Dichloroethene	50.0	44.8	90	ug/L	60 - 140
	1,1-Dichloroethane	50.0	46.6	93	ug/L	60 - 140
	cis-1,2-Dichloroethene	50.0	44.6	89	ug/L	60 - 140
	Chloroform	50.0	44.4	89	ug/L	60 - 140
	Trichloroethene	50.0	47.7	95	ug/L	60 - 140
	Tetrachloroethene	50.0	49.8	100	ug/L	60 - 140
	Toluene-d8	50.0	49.5	99	ug/L	60 - 140

QLS REPORT

Instrument Name: AG5975C
Sample Name: S20K077-CRL1
Misc Info: 2030073 0.05 mg/L
Date Acquired: 11/18/20 10:49
QLast Update: Mon Nov 16 10:20:51 2020
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.970	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.086	50.0	43.61	87%	60	140	pass
3)	trans-1,2-Dichloroethene	4.343	50.0	44.85	90%	60	140	pass
4)	1,1-Dichloroethane	5.066	50.0	46.62	93%	60	140	pass
5)	cis-1,2-Dichloroethene	6.074	50.0	44.62	89%	60	140	pass
6)	Chloroform	6.639	50.0	44.42	89%	60	140	pass
7)	1,1,1-Trichloroethane	6.907	50.0	43.07	86%	60	140	pass
8)	Carbon tetrachloride	7.175	50.0	43.93	88%	60	140	pass
10)	1,2-Dichloroethane	7.540	50.0	45.02	90%	60	140	pass
11)	Trichloroethene	8.564	50.0	47.72	95%	60	140	pass
12)	Toluene-d8	10.477	50.0	49.53	99%	60	140	pass
13)	Toluene	10.571	50.0	50.56	101%	60	140	pass
14)	1,1,2-Trichloroethane	11.222	50.0	48.46	97%	60	140	pass
15)	Tetrachloroethene	11.432	50.0	49.82	100%	60	140	pass
16)	Chlorobenzene	12.765	50.0	52.40	105%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.916	50.0	49.91	100%	60	140	pass
18)	Ethylbenzene	12.972	50.0	52.93	106%	60	140	pass
19)	m&p-Xylene	13.163	100.0	104.95	105%	60	140	pass
20)	o-Xylene	13.782	50.0	52.79	106%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.877	50.0	53.11	106%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.345	50.0	55.49	111%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.901	50.0	53.69	107%	60	140	pass
24)	Naphthalene	17.903	50.0	56.32	113%	60	140	pass

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182004.D
Acq On : 18 Nov 2020 10:49
InstName : AG5975C
Operator : TD
Sample : S20K077-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 18 11:07:51 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

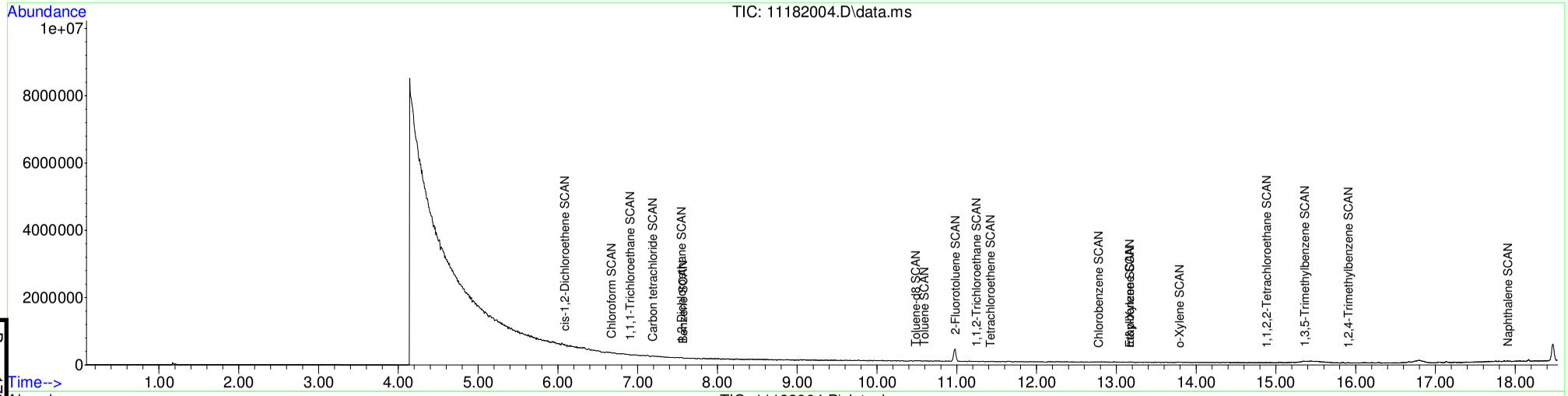
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	623004	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	6041	49.53	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	1598	64.23	ug/L	82
3] trans-1,2-Dichloroethene	4.369	61	1289	44.85	ug/L	51
4] 1,1-Dichloroethane	5.086	63	1668	46.62	ug/L	76
5] cis-1,2-Dichloroethene	6.088	61	1685	44.62	ug/L	97
6] Chloroform	6.652	83	1717	44.42	ug/L	99
7] 1,1,1-Trichloroethane	6.919	97	1808	43.07	ug/L	98
8] Carbon tetrachloride	7.187	117	1736	43.93	ug/L	99
9] Benzene	7.515	78	4454	42.08	ug/L #	1
10] 1,2-Dichloroethane	7.552	62	1701	45.02	ug/L #	28
11] Trichloroethene	8.575	130	1521	47.72	ug/L	91
13] Toluene	10.582	91	7861	50.56	ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	1642	48.46	ug/L	97
15] Tetrachloroethene	11.432	166	2242	49.82	ug/L	95
16] Chlorobenzene	12.765	112	5834	52.40	ug/L	91
17] 1,1,1,2-Tetrachloroethane	12.916	131	1991	49.91	ug/L	97
18] Ethylbenzene	12.972	91	10017	52.93	ug/L	94
19] m&p-Xylene	13.170	91	15524	104.95	ug/L	93
20] o-Xylene	13.782	91	8342	52.79	ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.877	83	3720	53.11	ug/L	99
22] 1,3,5-Trimethylbenzene	15.350	105	9334	55.49	ug/L	99
23] 1,2,4-Trimethylbenzene	15.906	105	9381	53.69	ug/L	96
24] Naphthalene	17.903	128	15551	56.32	ug/L	98
25) 2-Fluorotoluene SCAN	10.979	109	304957	5021.41	ug/L	99
29) cis-1,2-Dichloroethene...	6.086	61	1269	64.13	ug/L #	27
30) Chloroform SCAN	6.675	83	865	40.30	ug/L #	82
31) 1,1,1-Trichloroethane ...	6.906	97	428	21.88	ug/L #	39
32) Carbon tetrachloride SCAN	7.185	117	665	32.59	ug/L #	35
33) Benzene SCAN	7.563	78	17713	328.90	ug/L	91
34) 1,2-Dichloroethane SCAN	7.550	62	1494	75.13	ug/L #	23
36) Toluene-d8 SCAN	10.486	98	2620	44.11	ug/L	66
37) Toluene SCAN	10.591	91	6538	85.96	ug/L #	77
38) 1,1,2-Trichloroethane ...	11.242	97	1223	71.63	ug/L #	23
39) Tetrachloroethene SCAN	11.420	166	516	28.24	ug/L #	25
40) Chlorobenzene SCAN	12.772	112	3138	60.38	ug/L #	41
42) Ethylbenzene SCAN	13.169	91	7969	57.51	ug/L	87
43) m&p-Xylene SCAN	13.169	91	7969	57.51	ug/L	90
44) o-Xylene SCAN	13.789	91	4304	58.03	ug/L #	69
45) 1,1,2,2-Tetrachloroeth...	14.883	83	1904	52.64	ug/L #	40
46) 1,3,5-Trimethylbenzene...	15.358	105	5434	69.51	ug/L	61
47) 1,2,4-Trimethylbenzene...	15.909	105	5891	73.65	ug/L	70
48) Naphthalene SCAN	17.905	128	8090	66.84	ug/L	86

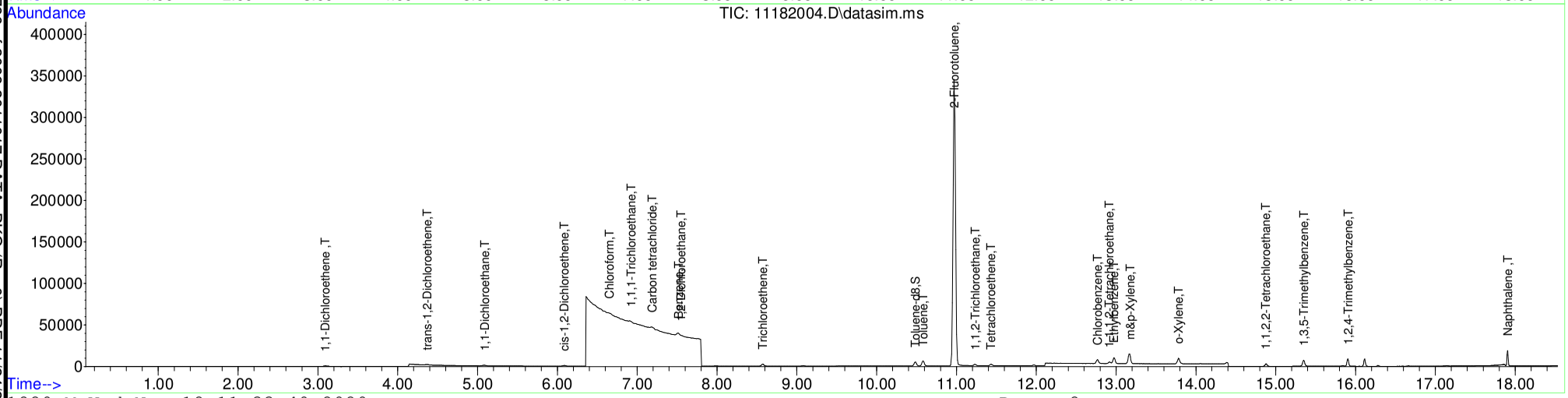
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182004.D
Acq On : 18 Nov 2020 10:49
InstName : AG5975C
Operator : TD
Sample : S20K077-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 18 11:07:51 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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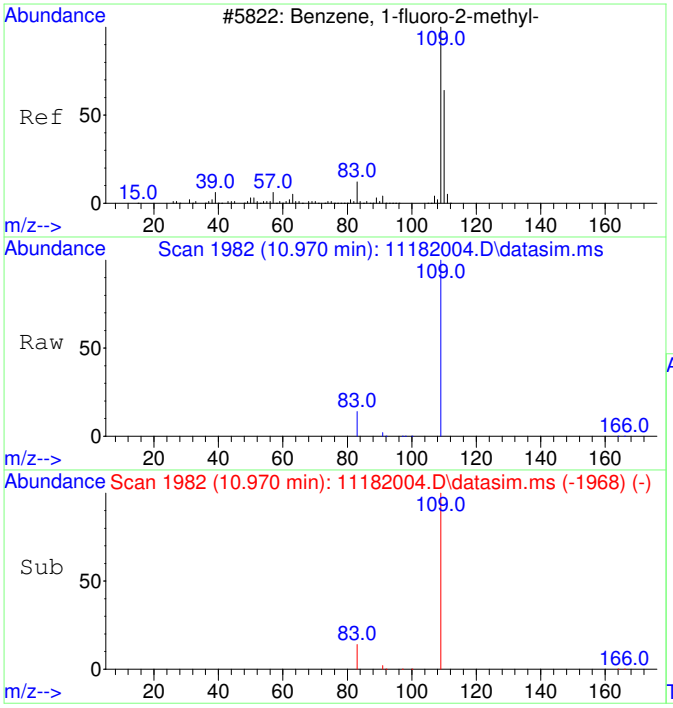
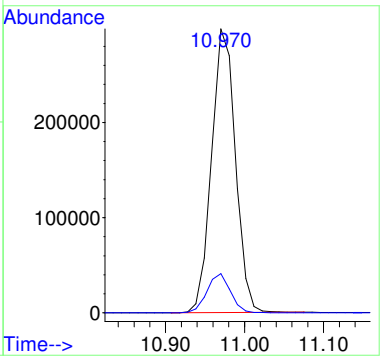
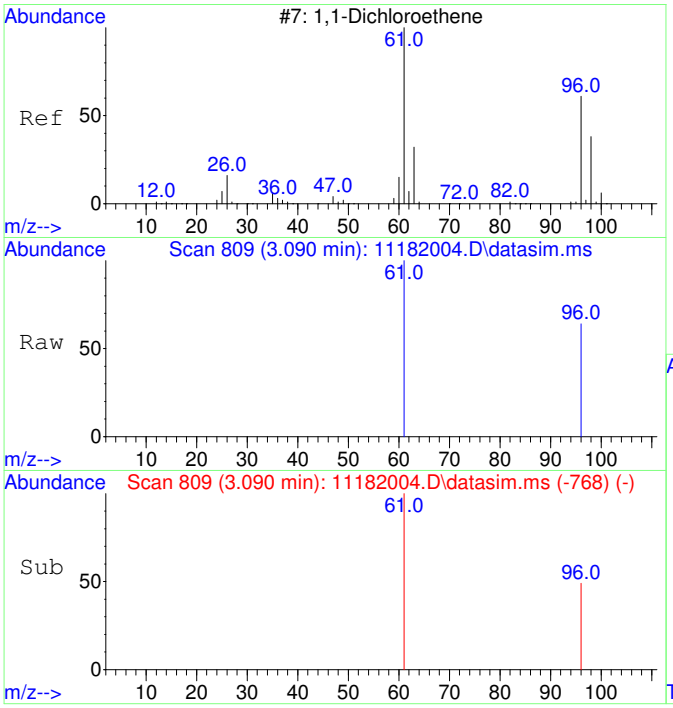


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:109 Resp: 623004

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

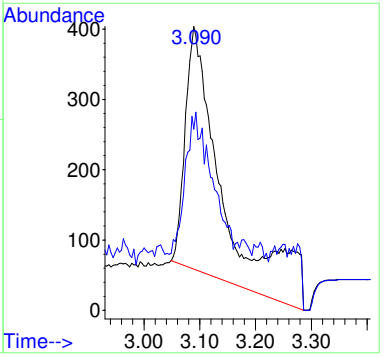




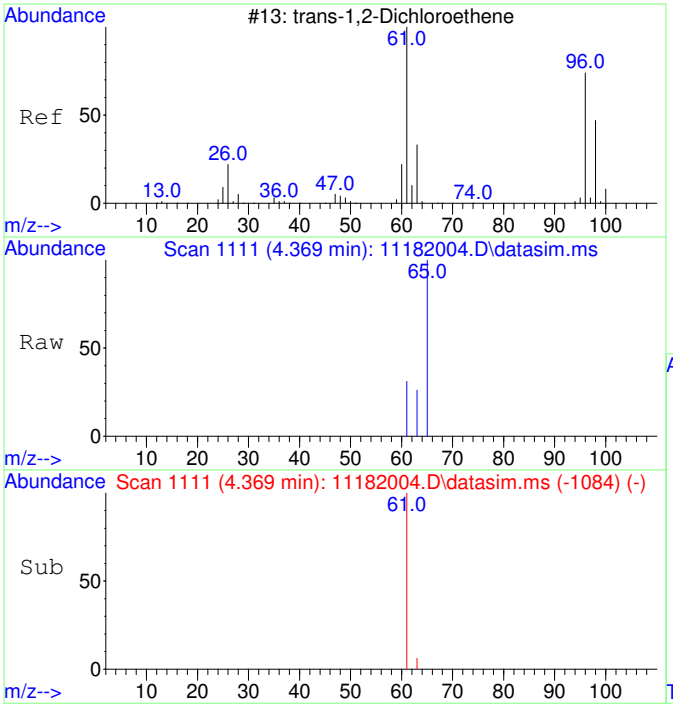
#2
1,1-Dichloroethene
Concen: 64.23 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 61 Resp: 1598

Ion	Ratio	Lower	Upper
61	100		
96	53.1	37.2	97.2



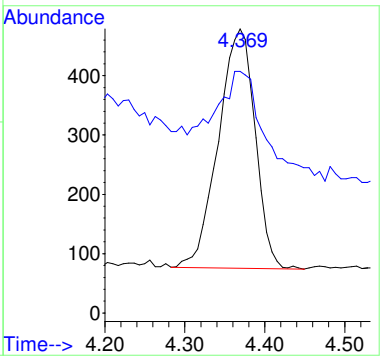
Before MI:
IMPROPER
BASELINE

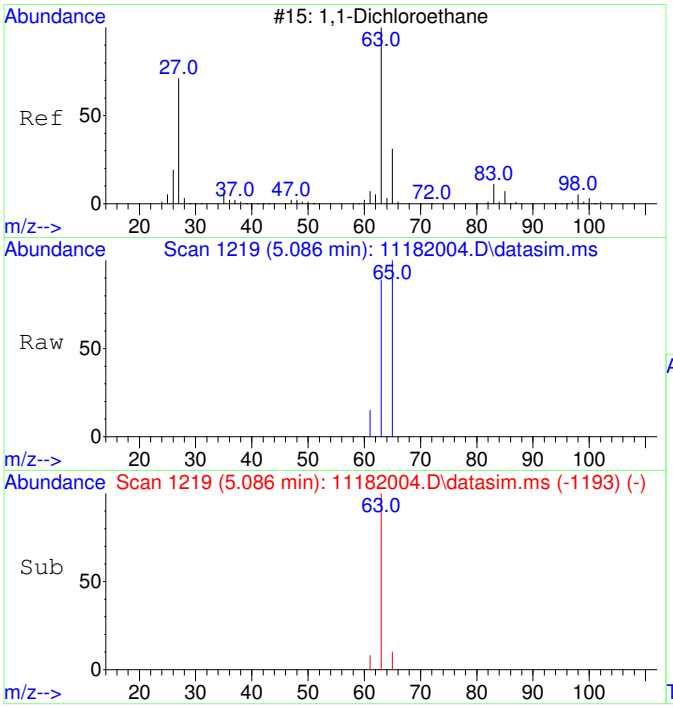


#3
trans-1,2-Dichloroethene
Concen: 44.85 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. 0.026 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 61 Resp: 1289

Ion	Ratio	Lower	Upper
61	100		
63	59.8	2.4	62.4

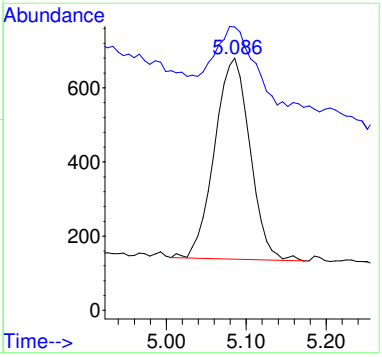


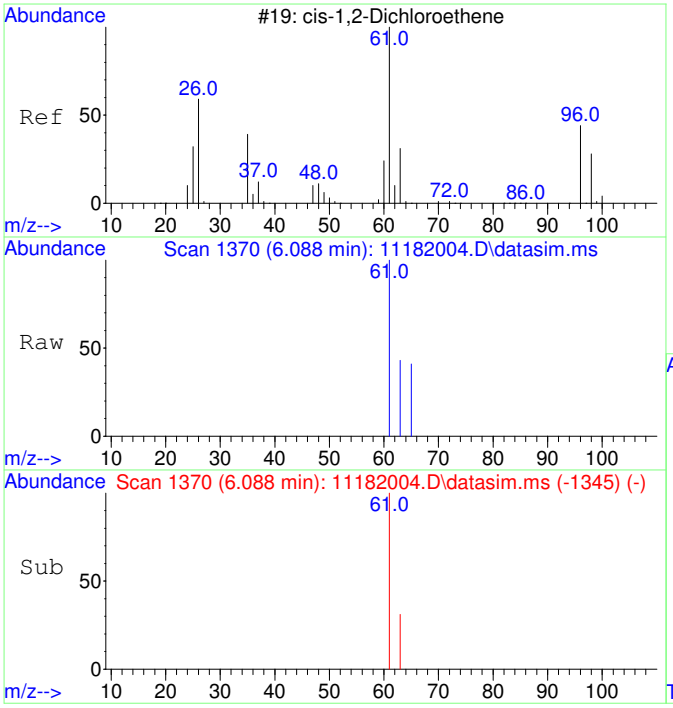


#4
1,1-Dichloroethane
Concen: 46.62 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 63 Resp: 1668

Ion	Ratio	Lower	Upper
63	100		
65	45.1	1.8	61.8

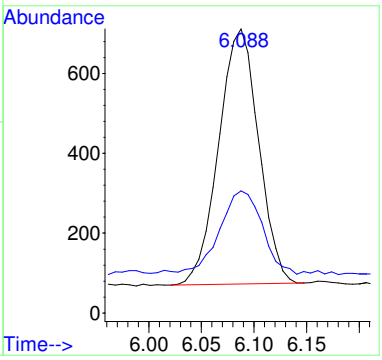


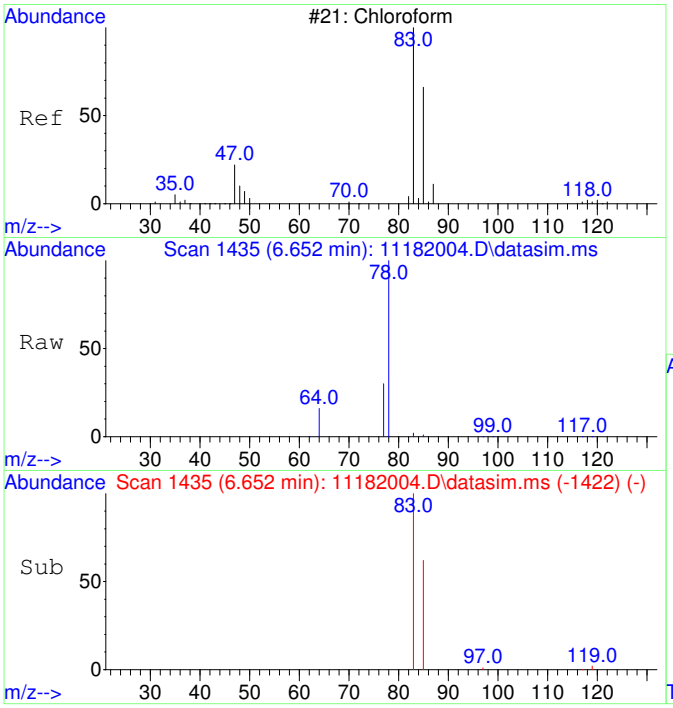


#5
cis-1,2-Dichloroethene
Concen: 44.62 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 61 Resp: 1685

Ion	Ratio	Lower	Upper
61	100		
63	34.2	2.5	62.5

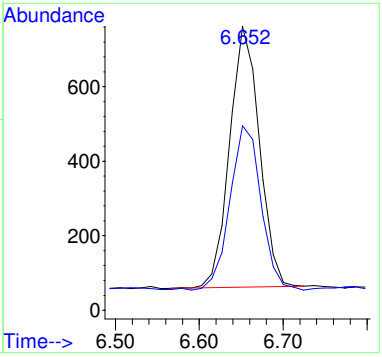


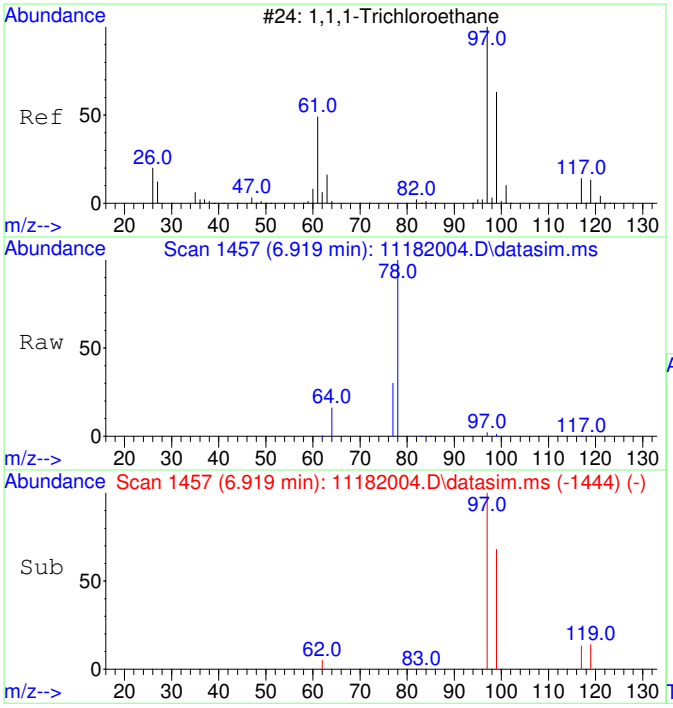


#6
Chloroform
Concen: 44.42 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 1717

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.1	95.1

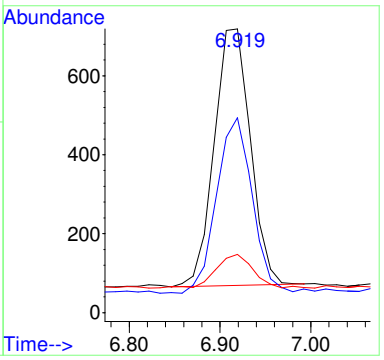


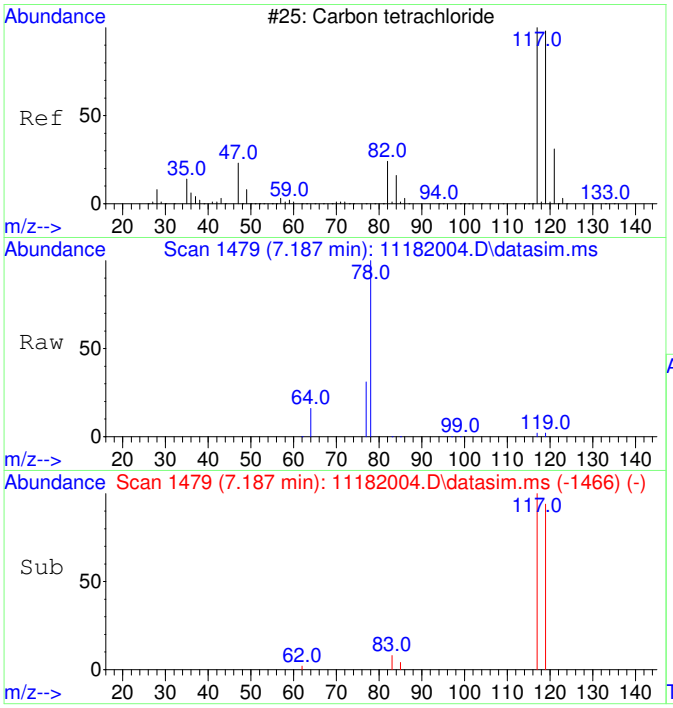


#7
1,1,1-Trichloroethane
Concen: 43.07 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 1808

Ion	Ratio	Lower	Upper
97	100		
99	66.3	34.6	94.6
117	13.8	0.0	43.2

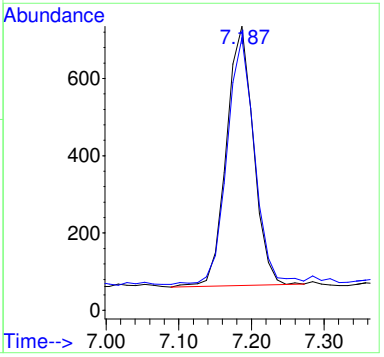


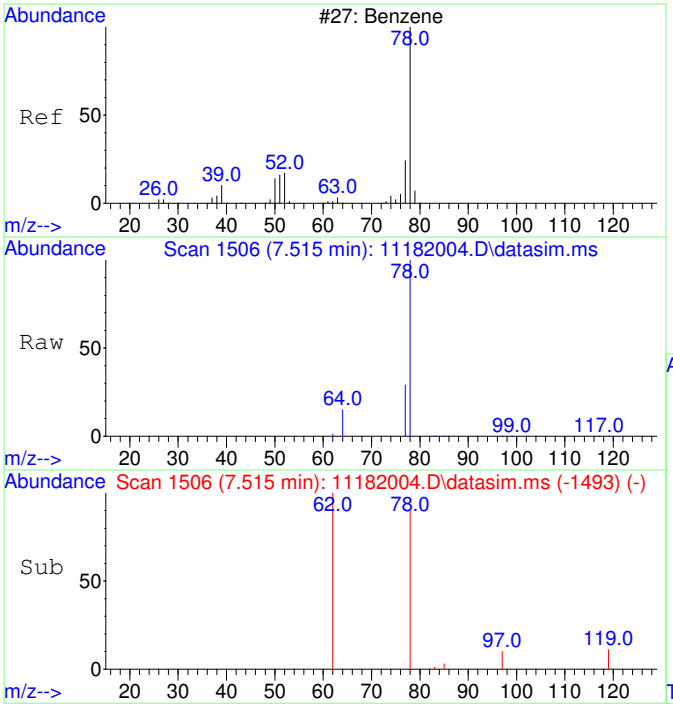


#8
Carbon tetrachloride
Concen: 43.93 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:117 Resp: 1736

Ion	Ratio	Lower	Upper
117	100		
119	97.4	66.4	126.4

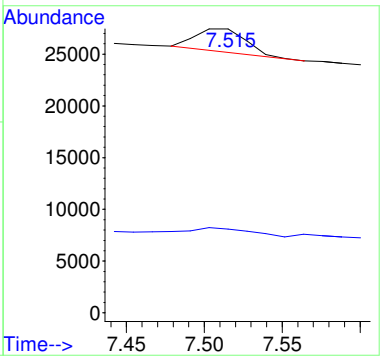


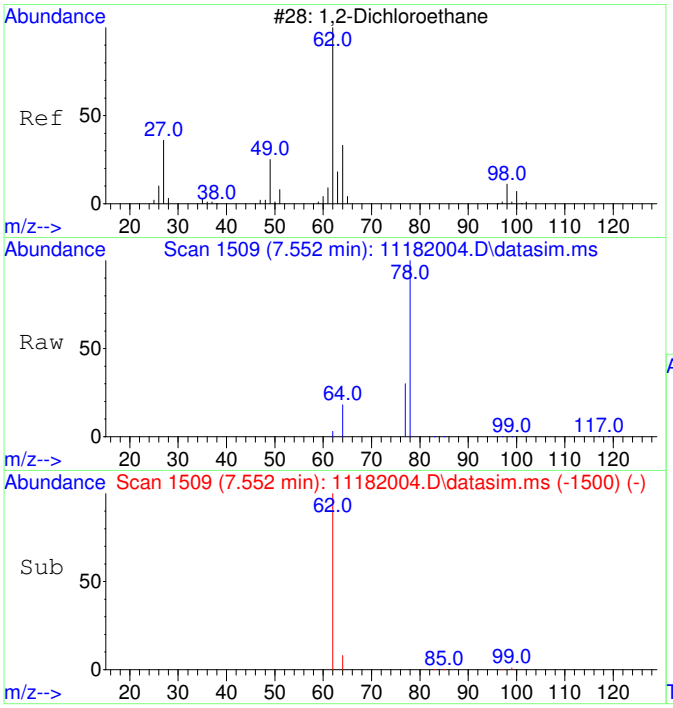


#9
Benzene
Concen: 42.08 ug/L
RT: 7.515 min Scan# 1506
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 78 Resp: 4454

Ion	Ratio	Lower	Upper
78	100		
77	89.1	0.0	53.2#

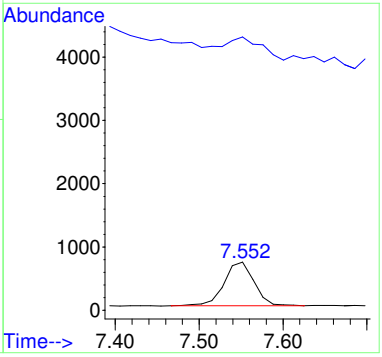


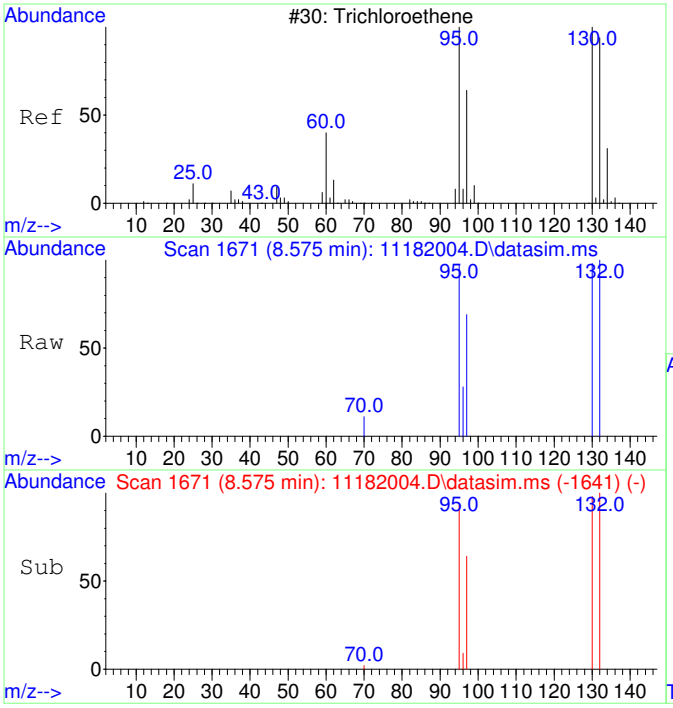


#10
1,2-Dichloroethane
Concen: 45.02 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 62 Resp: 1701

Ion	Ratio	Lower	Upper
62	100		
64	72.8	2.3	62.3#

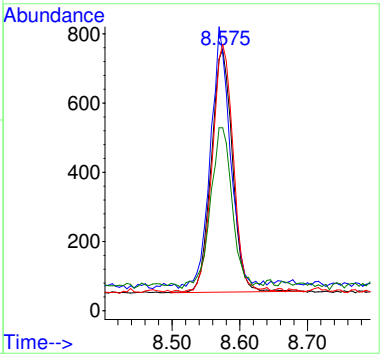


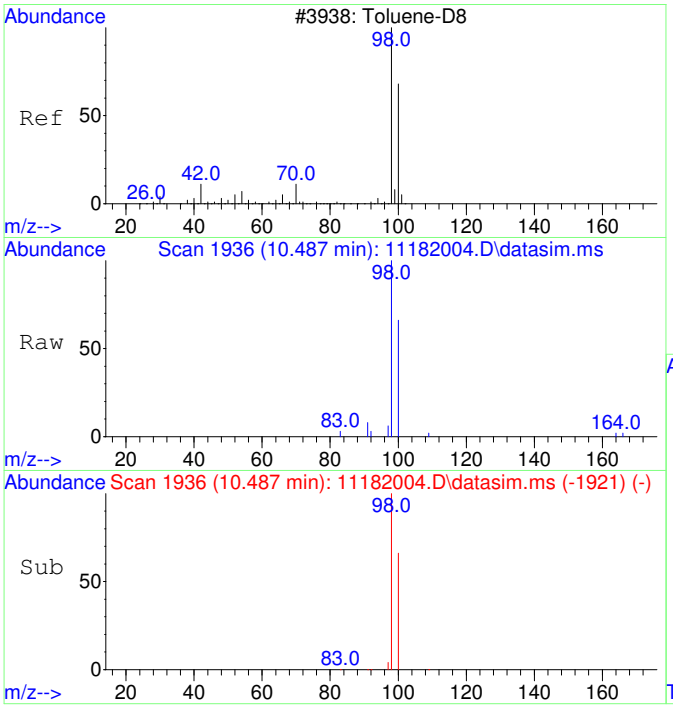


#11
Trichloroethene
Concen: 47.72 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:130 Resp: 1521

Ion	Ratio	Lower	Upper
130	100		
95	101.4	60.7	120.7
132	101.1	76.0	116.0
97	68.4	38.6	78.6

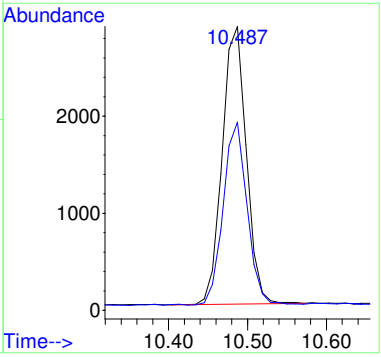


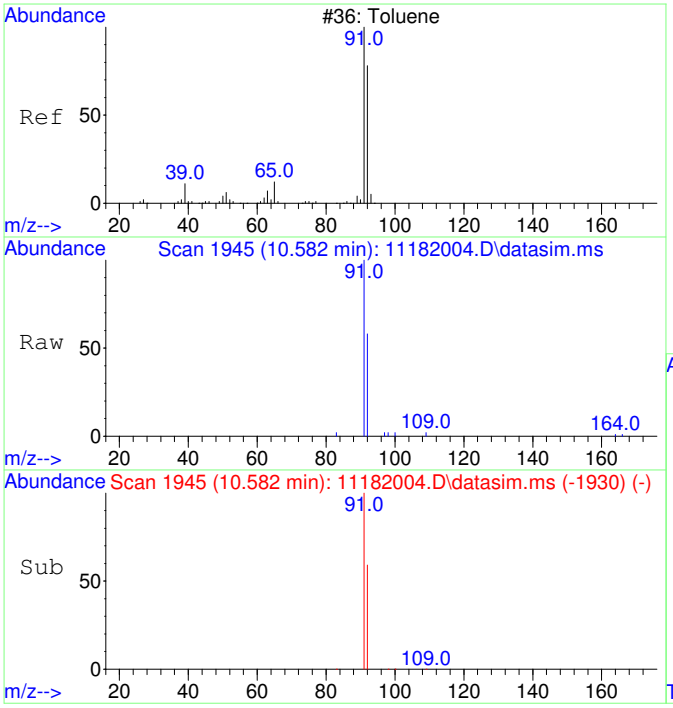


#12
Toluene-d8
Concen: 49.53 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 98 Resp: 6041

Ion	Ratio	Lower	Upper
98	100		
100	64.8	37.1	97.1

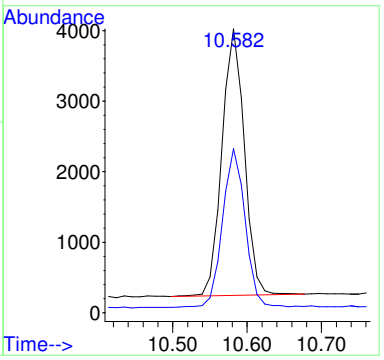


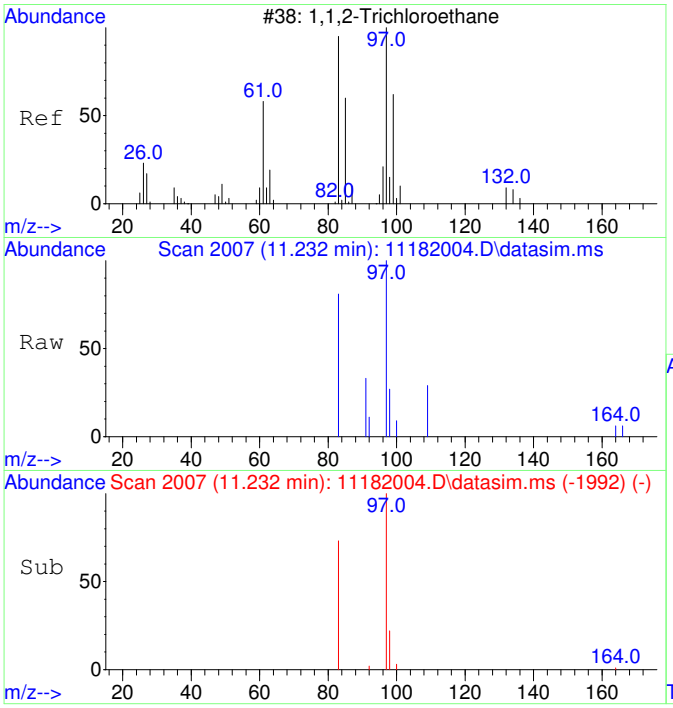


#13
Toluene
Concen: 50.56 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 7861

Ion	Ratio	Lower	Upper
91	100		
92	59.9	29.9	89.9

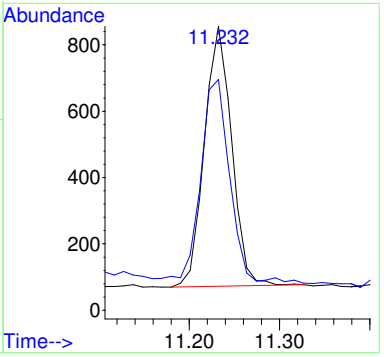


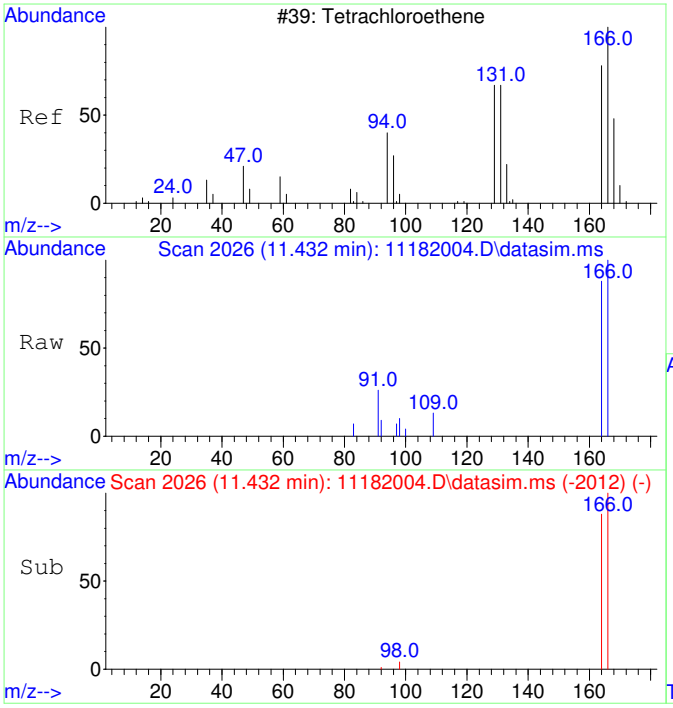


#14
1,1,2-Trichloroethane
Concen: 48.46 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 1642

Ion	Ratio	Lower	Upper
97	100		
83	78.5	51.2	111.2

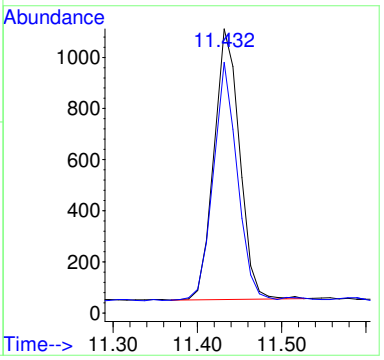


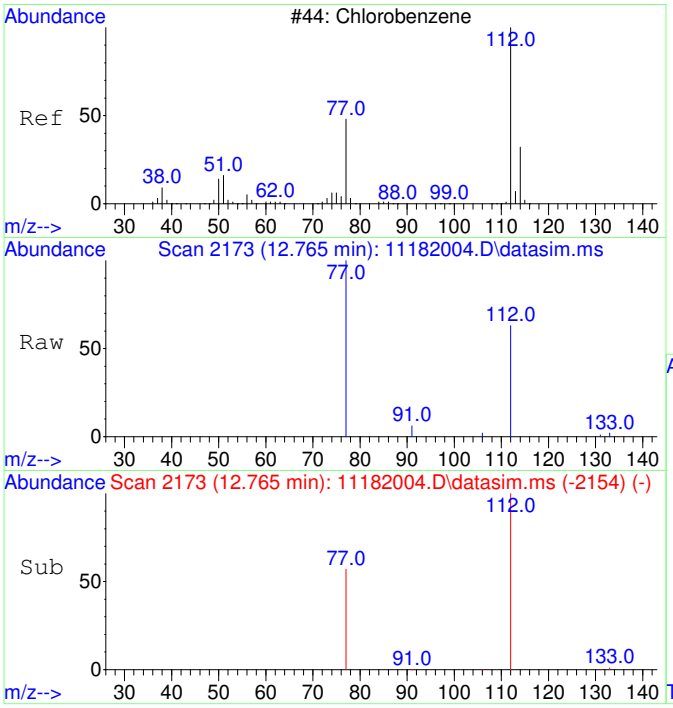


#15
Tetrachloroethene
Concen: 49.82 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:166 Resp: 2242

Ion	Ratio	Lower	Upper
166	100		
164	81.8	47.8	107.8

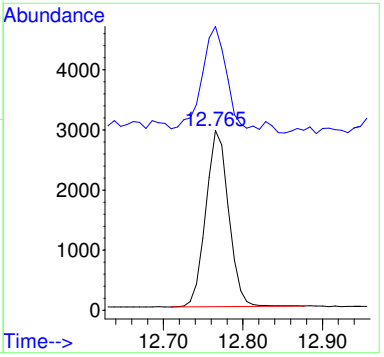


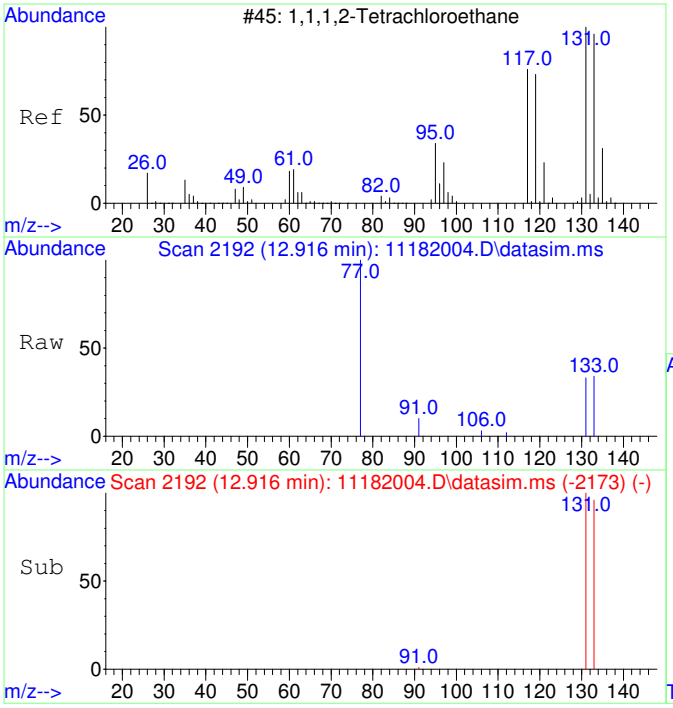


#16
Chlorobenzene
Concen: 52.40 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:112 Resp: 5834

Ion	Ratio	Lower	Upper
112	100		
77	59.9	23.6	83.6

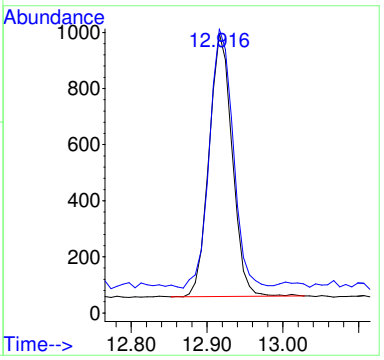


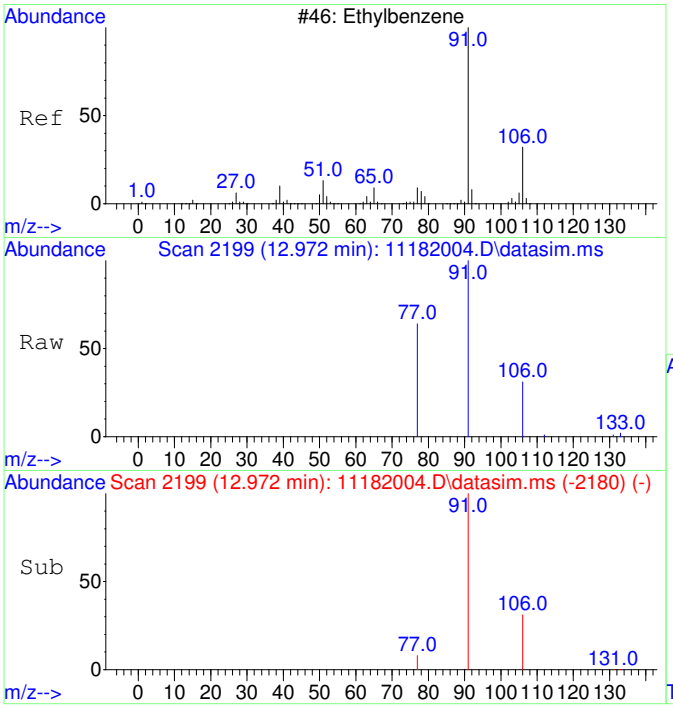


#17
1,1,1,2-Tetrachloroethane
Concen: 49.91 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:131 Resp: 1991

Ion	Ratio	Lower	Upper
131	100		
133	98.9	66.3	126.3

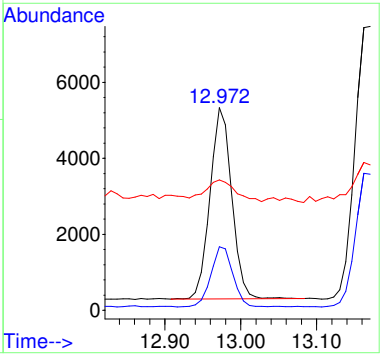


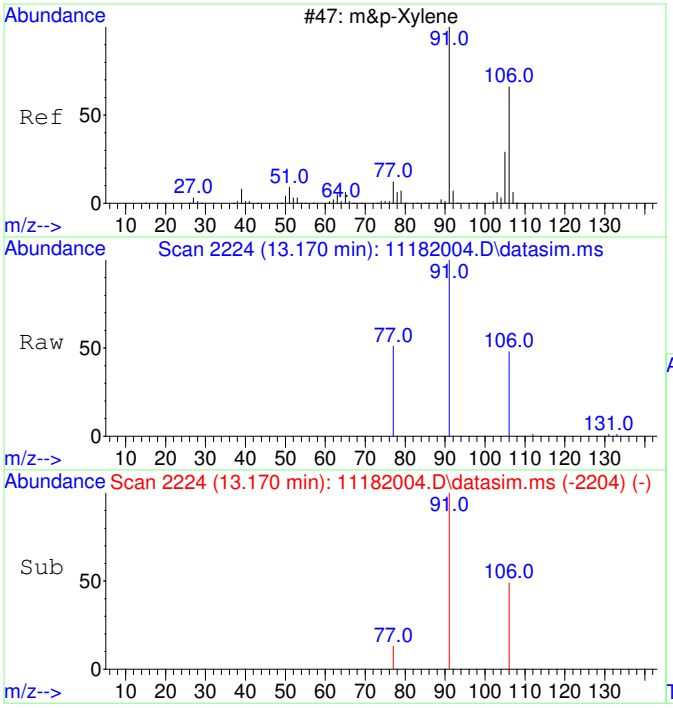


#18
Ethylbenzene
Concen: 52.93 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 10017

Ion	Ratio	Lower	Upper
91	100		
106	31.5	3.0	63.0
77	15.1	0.0	38.2

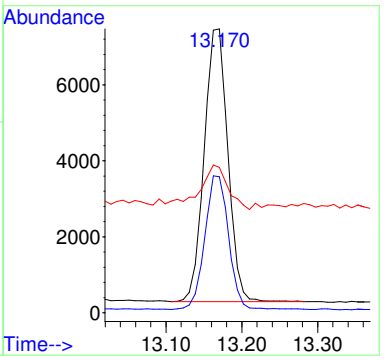


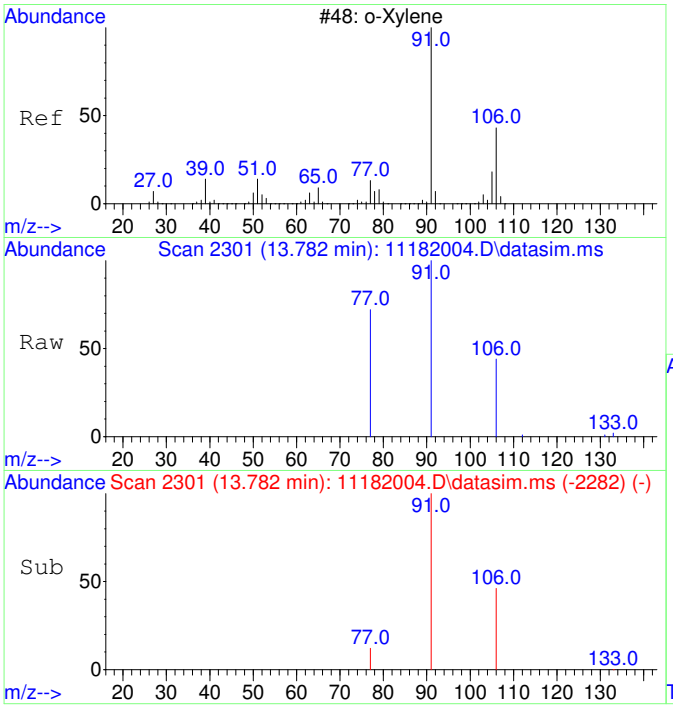


#19
m&p-Xylene
Concen: 104.95 ug/L
RT: 13.170 min Scan# 2224
Delta R.T. 0.008 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 15524

Ion	Ratio	Lower	Upper
91	100		
106	49.2	22.2	82.2
77	20.0	0.0	42.4

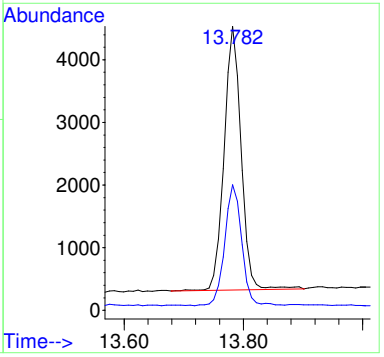


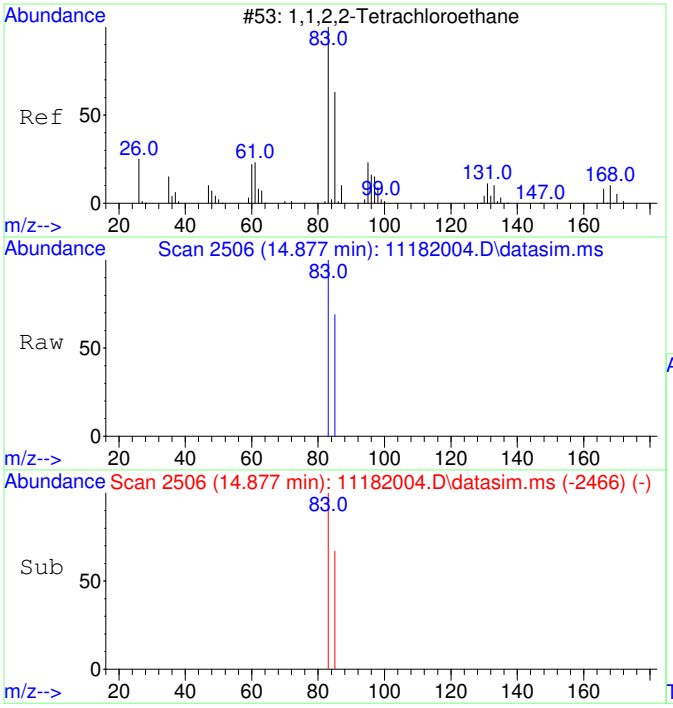


#20
o-Xylene
Concen: 52.79 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 8342

Ion	Ratio	Lower	Upper
91	100		
106	45.4	19.2	79.2

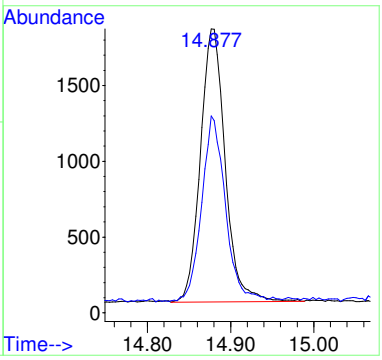


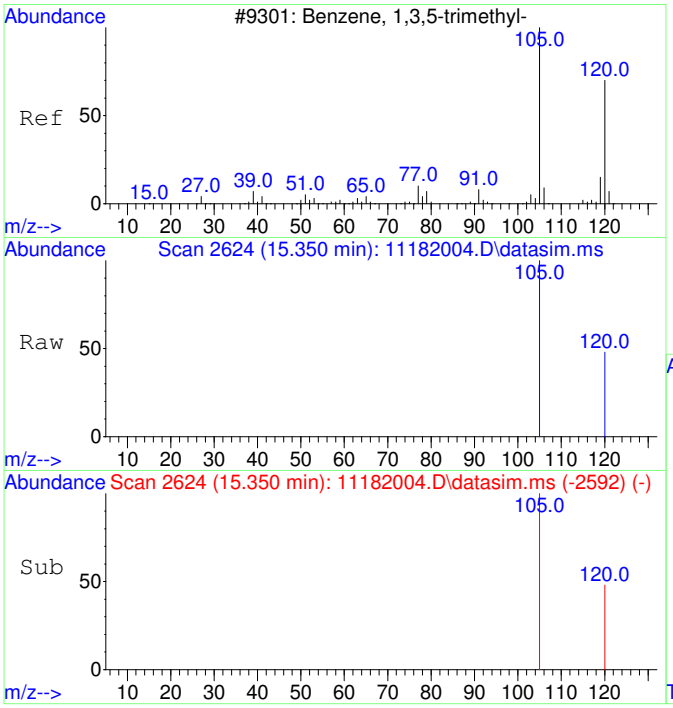


#21
1,1,2,2-Tetrachloroethane
Concen: 53.11 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 3720

Ion	Ratio	Lower	Upper
83	100		
85	63.8	34.8	94.8

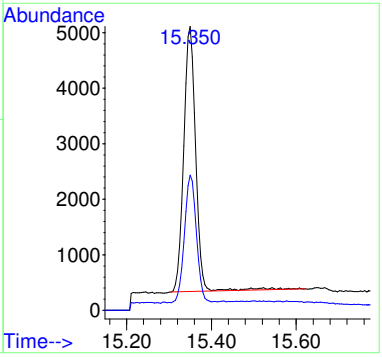


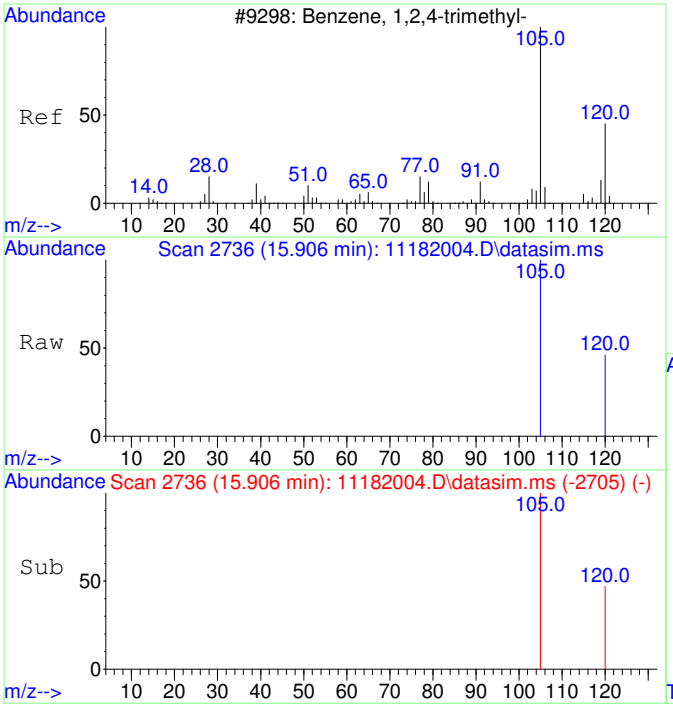


#22
1,3,5-Trimethylbenzene
Concen: 55.49 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 9334

Ion	Ratio	Lower	Upper
105	100		
120	50.7	21.1	81.1

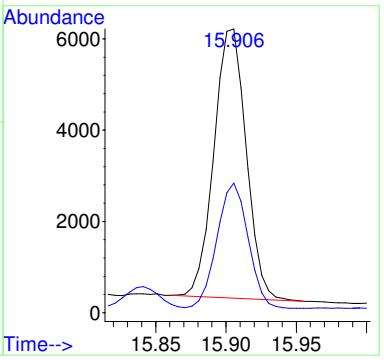


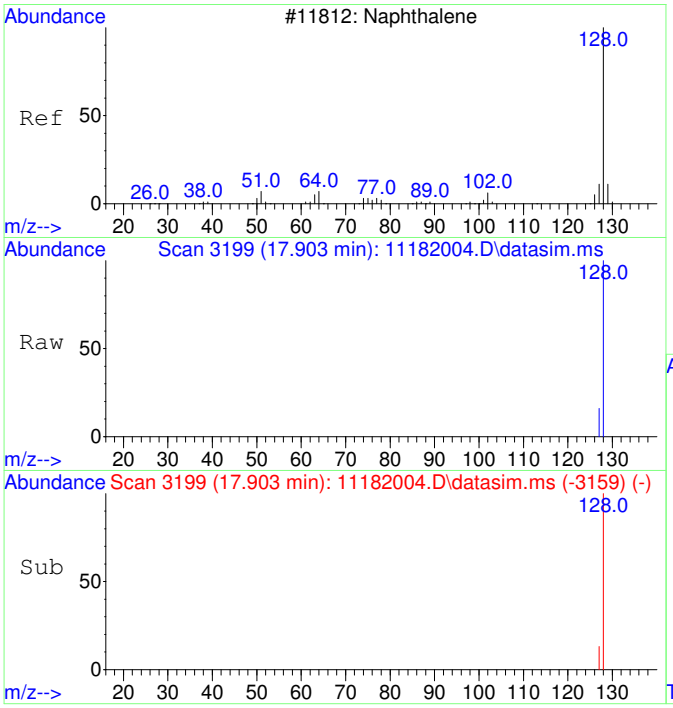


#23
1,2,4-Trimethylbenzene
Concen: 53.69 ug/L
RT: 15.906 min Scan# 2736
Delta R.T. 0.005 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 9381

Ion	Ratio	Lower	Upper
105	100		
120	44.5	17.2	77.2

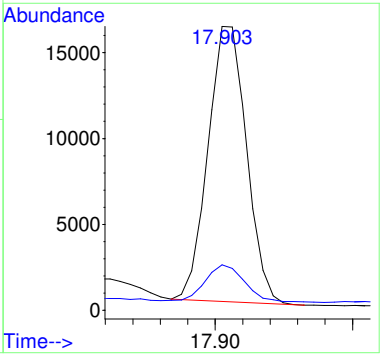


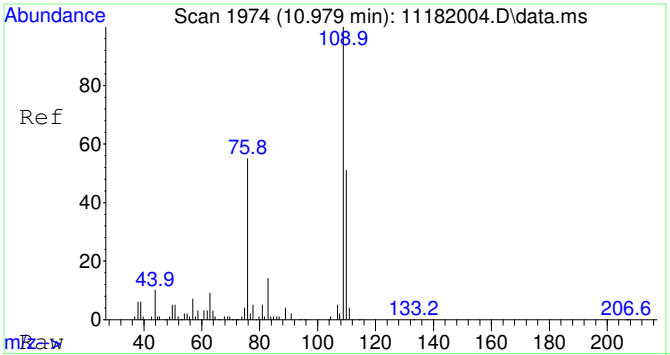


#24
Naphthalene
Concen: 56.32 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:128 Resp: 15551

Ion	Ratio	Lower	Upper
128	100		
127	13.3	0.0	42.5

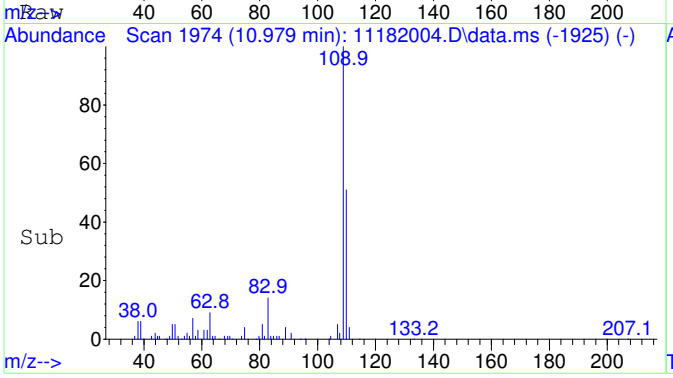


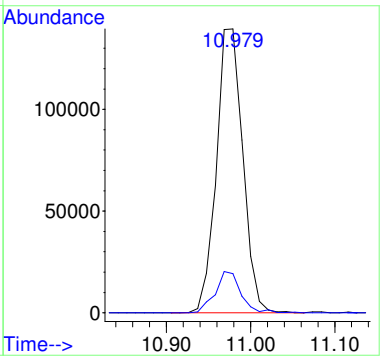


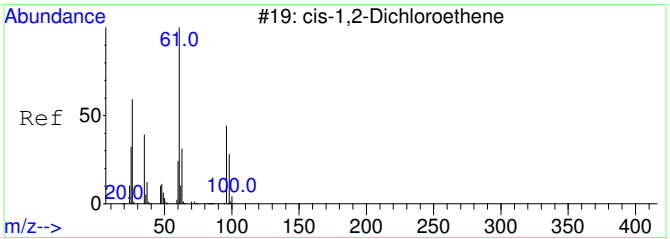
#25
2-Fluorotoluene SCAN
Concen: 5021.41 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:109 Resp: 304957

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	43.8



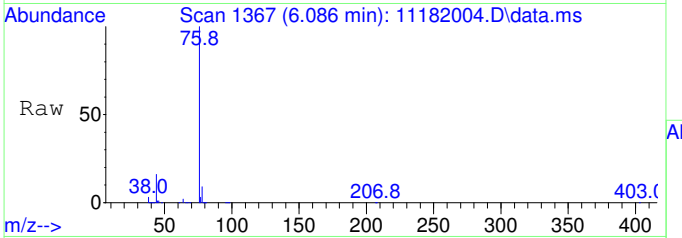


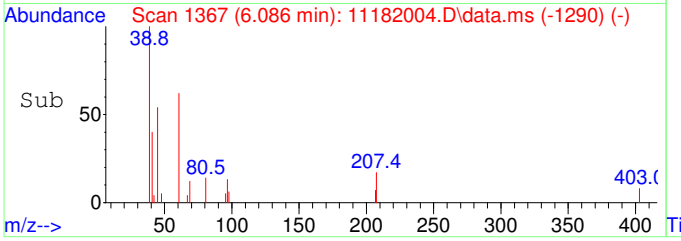


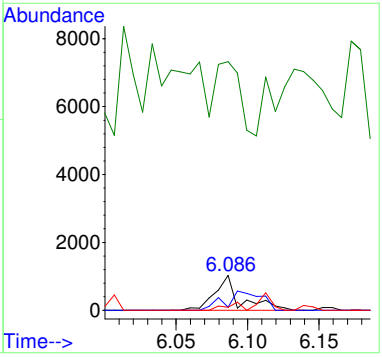
#29
cis-1,2-Dichloroethene SCAN
Concen: 64.13 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

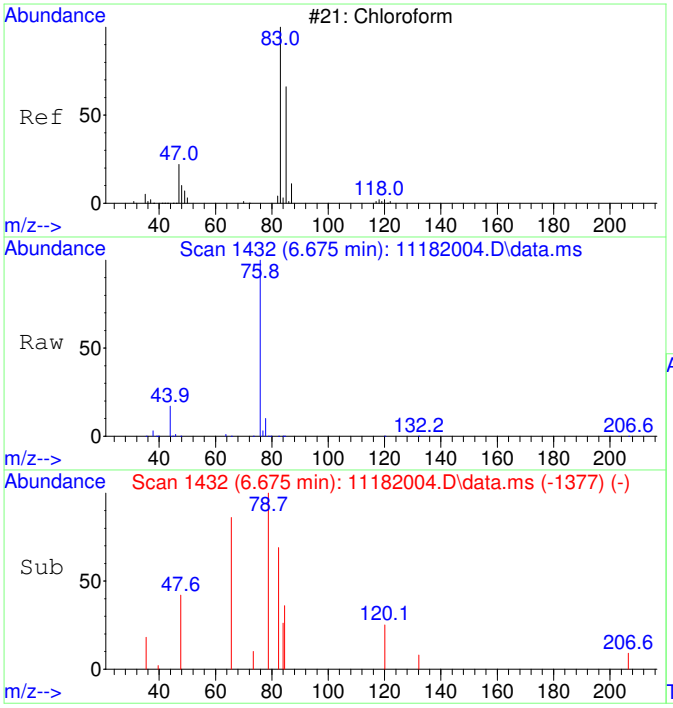
Tgt Ion: 61 Resp: 1269

Ion	Ratio	Lower	Upper
61	100		
96	77.5	39.9	99.9
98	0.0	13.5	73.5#
64	154.5	4.5	64.5#





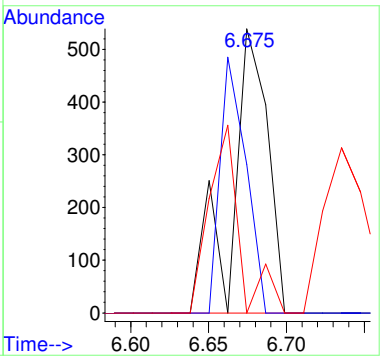


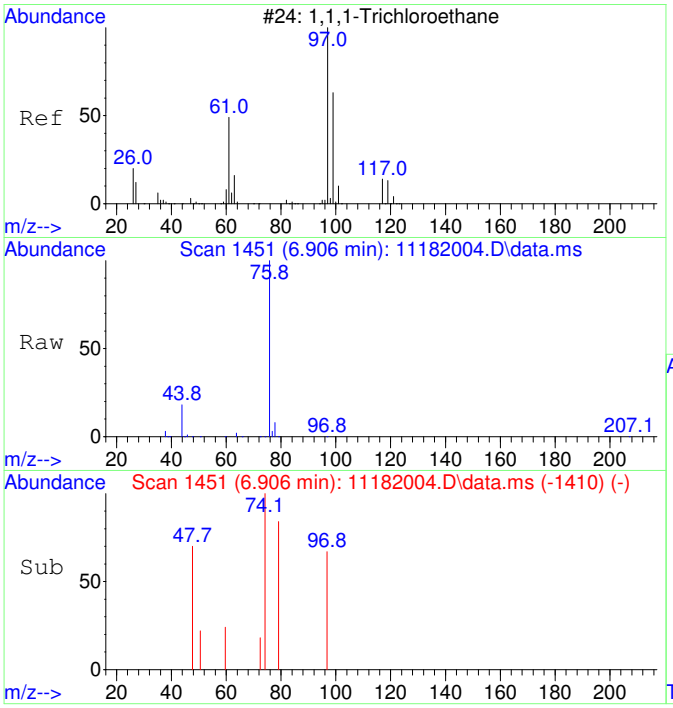


#30
Chloroform SCAN
Concen: 40.30 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.024 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 865

Ion	Ratio	Lower	Upper
83	100		
85	64.7	34.6	94.6
47	56.2	0.0	53.4#

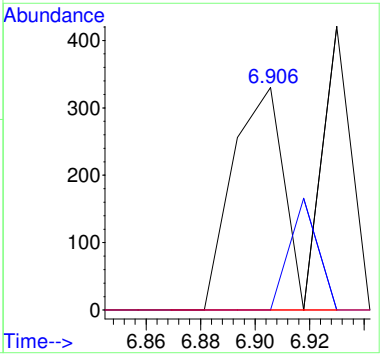


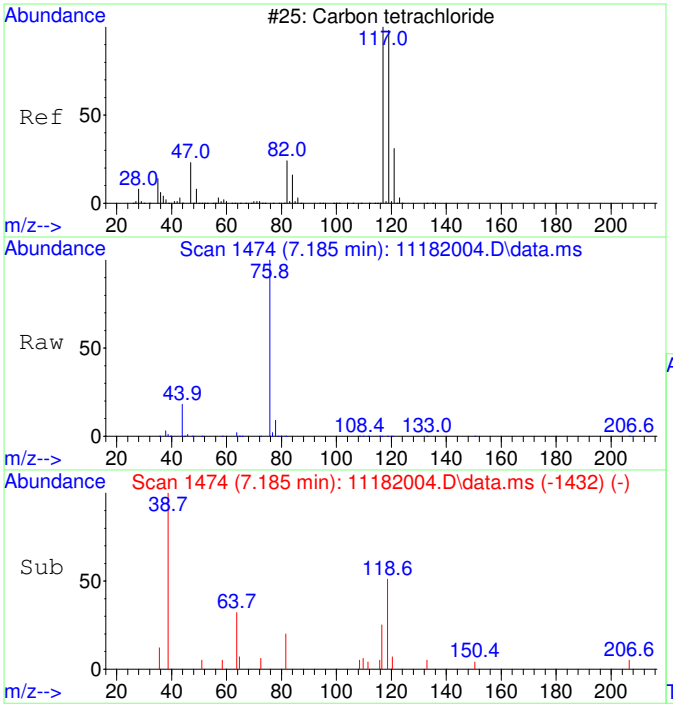


#31
1,1,1-Trichloroethane SCAN
Concen: 21.88 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 428

Ion	Ratio	Lower	Upper
97	100		
99	28.3	43.6	103.6#
61	0.0	18.0	78.0#

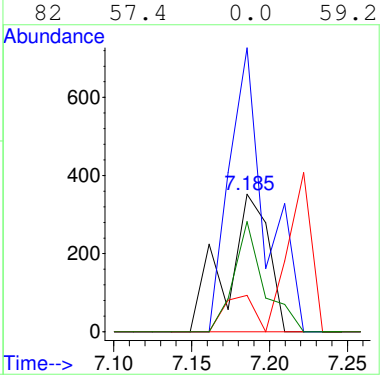


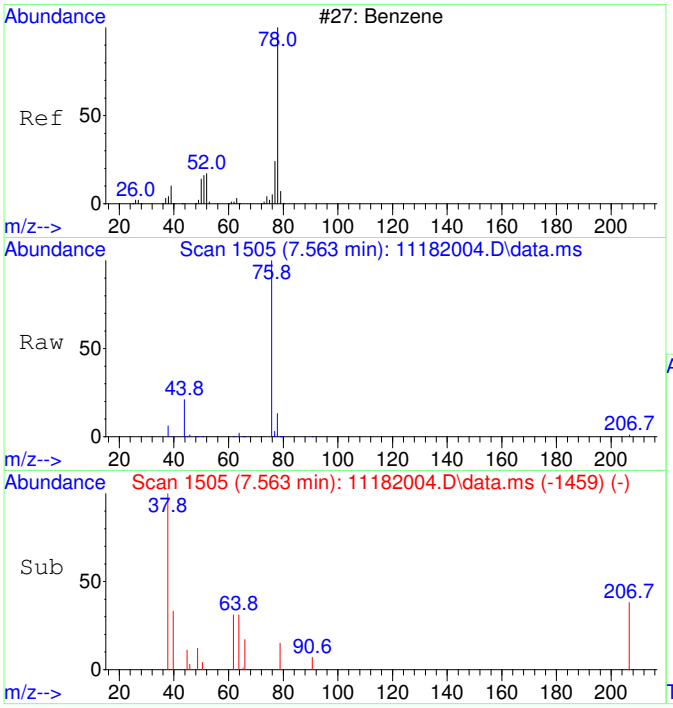


#32
Carbon tetrachloride SCAN
Concen: 32.59 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:117 Resp: 665

Ion	Ratio	Lower	Upper
117	100		
119	178.3	75.5	135.5#
121	0.0	0.0	58.8
82	57.4	0.0	59.2

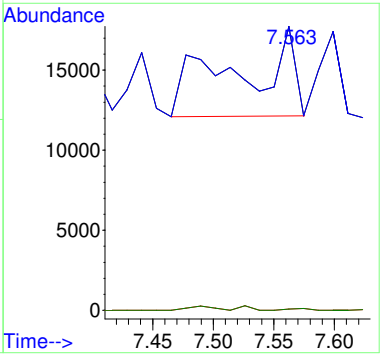


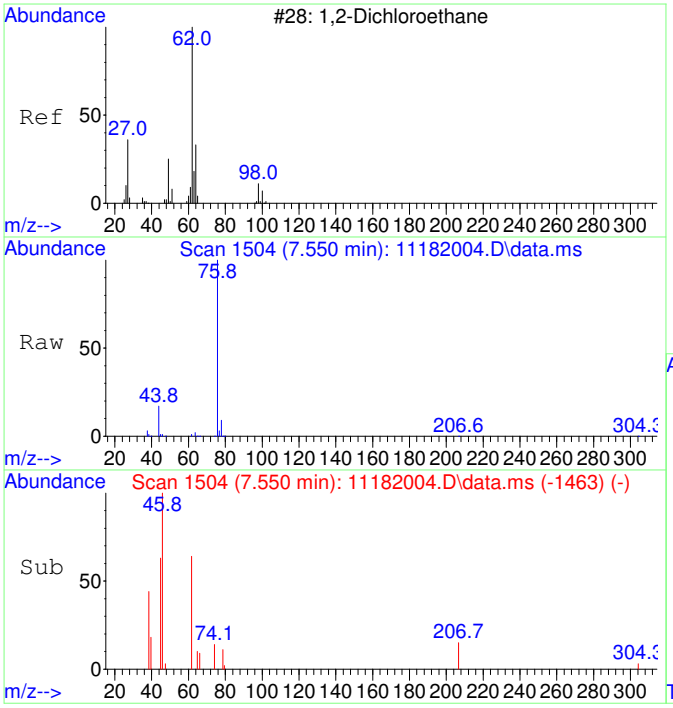


#33
Benzene SCAN
Concen: 328.90 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.061 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 78 Resp: 17713

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.8	0.0	47.9
51	0.8	0.0	44.1

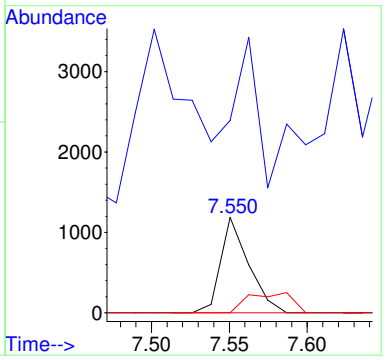


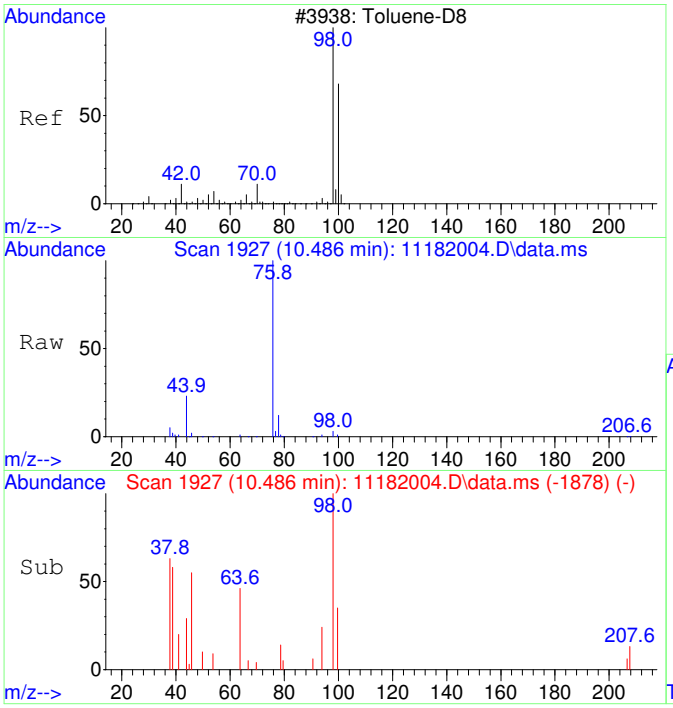


#34
1,2-Dichloroethane SCAN
Concen: 75.13 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 62 Resp: 1494

Ion	Ratio	Lower	Upper
62	100		
64	90.4	5.2	65.2#
49	0.0	3.9	63.9#

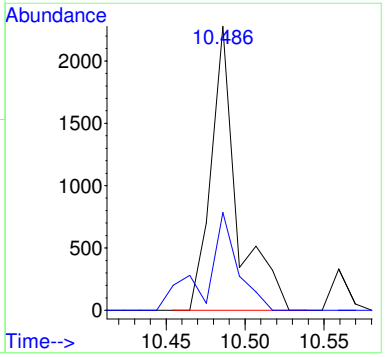


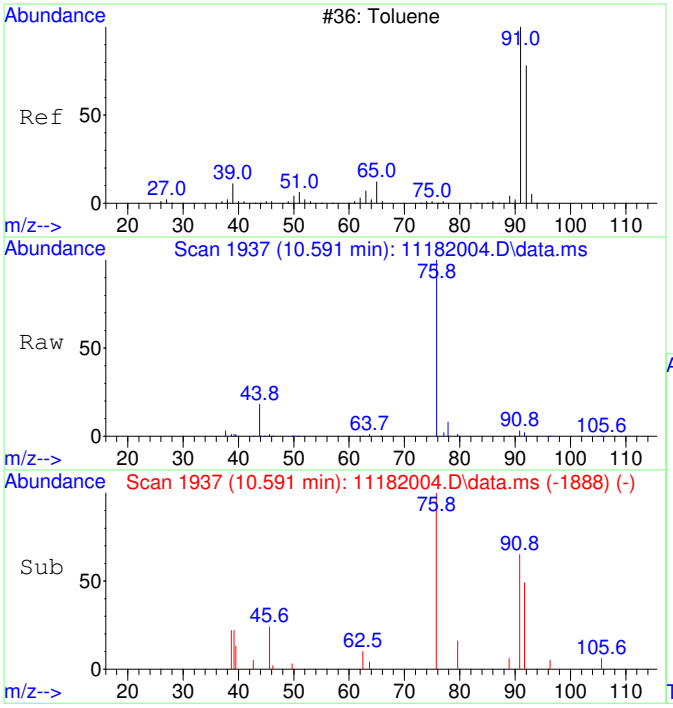


#36
Toluene-d8 SCAN
Concen: 44.11 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 98 Resp: 2620

Ion	Ratio	Lower	Upper
98	100		
100	42.0	40.0	100.0

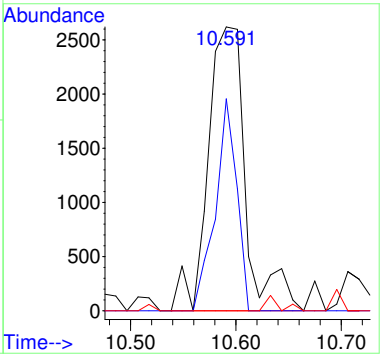


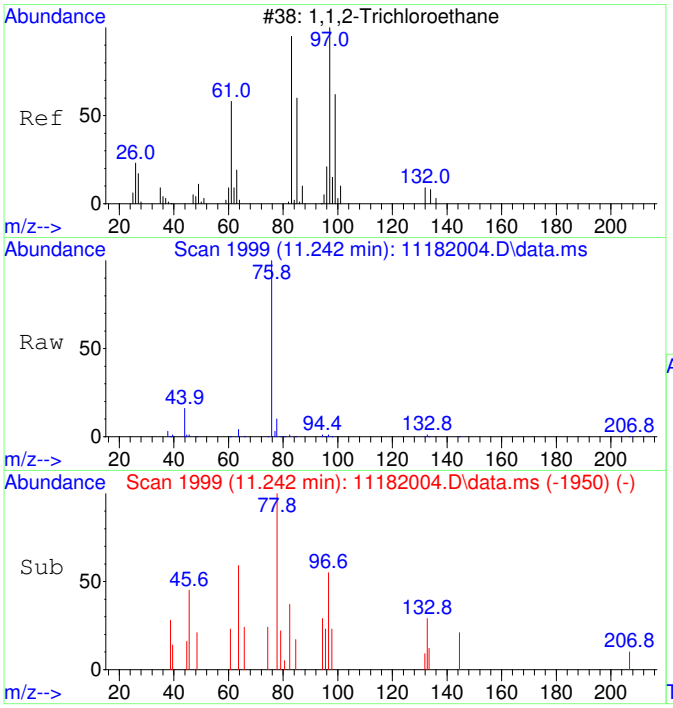


#37
Toluene SCAN
Concen: 85.96 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 6538

Ion	Ratio	Lower	Upper
91	100		
92	42.3	28.3	88.3
65	0.0	0.0	41.0

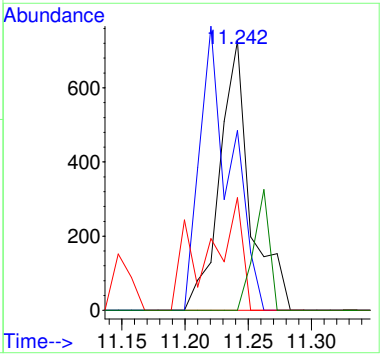


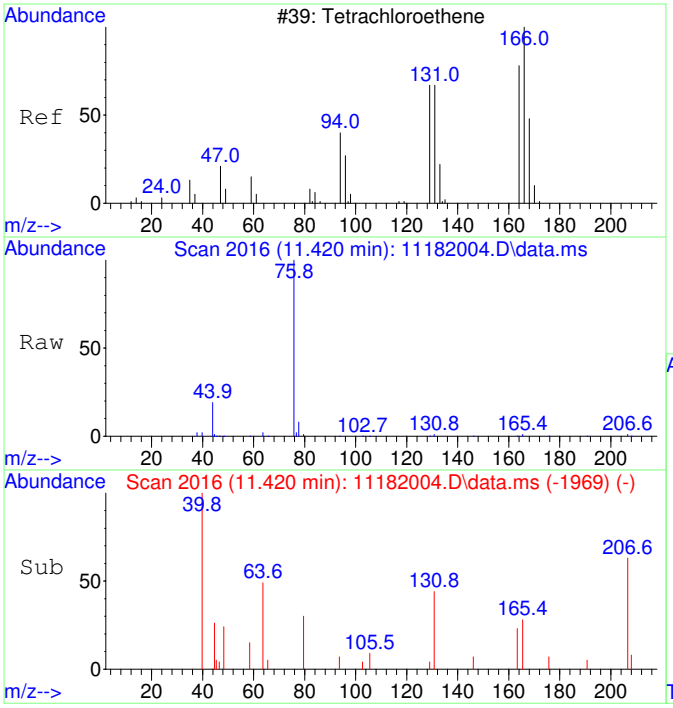


#38
1,1,2-Trichloroethane SCAN
Concen: 71.63 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 1223

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	25.8	32.1	92.1#
99	0.0	36.7	96.7#

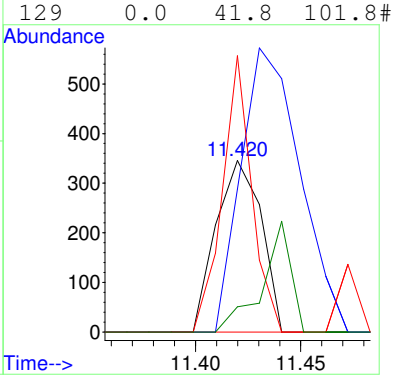


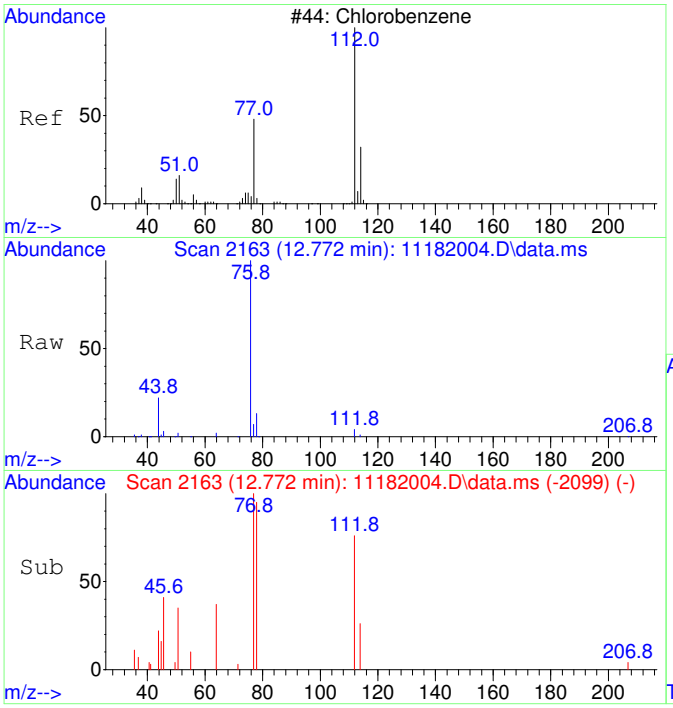


#39
Tetrachloroethene SCAN
Concen: 28.24 ug/L
RT: 11.420 min Scan# 2016
Delta R.T. -0.011 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:166 Resp: 516

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	105.0	38.7	98.7#
129	0.0	41.8	101.8#

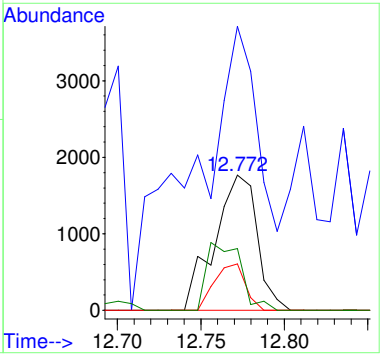


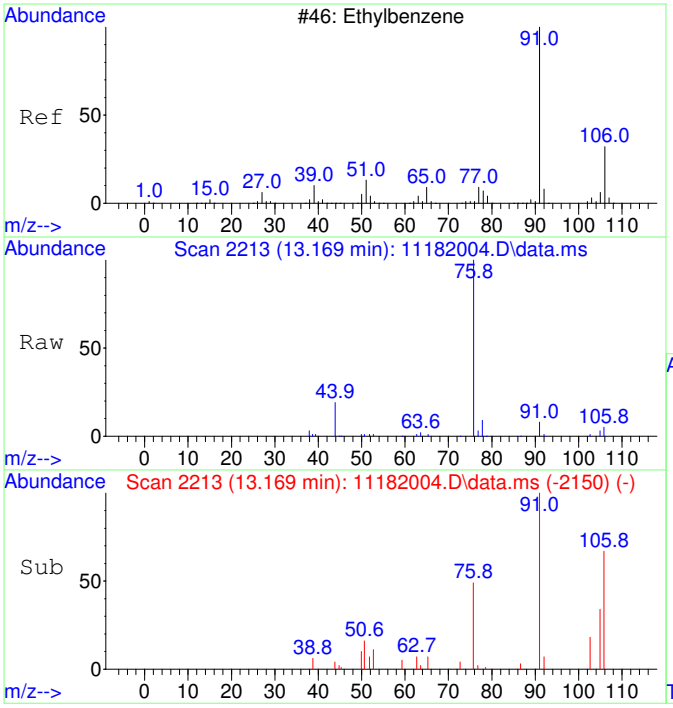


#40
Chlorobenzene SCAN
Concen: 60.38 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:112 Resp: 3138

Ion	Ratio	Lower	Upper
112	100		
77	124.3	28.2	88.2#
114	25.0	2.3	62.3
51	40.4	0.0	50.1

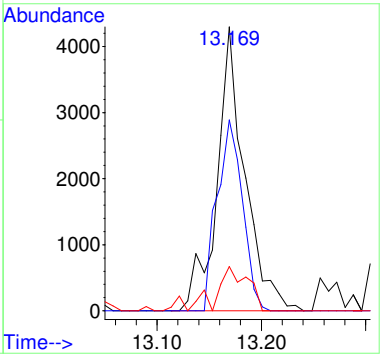


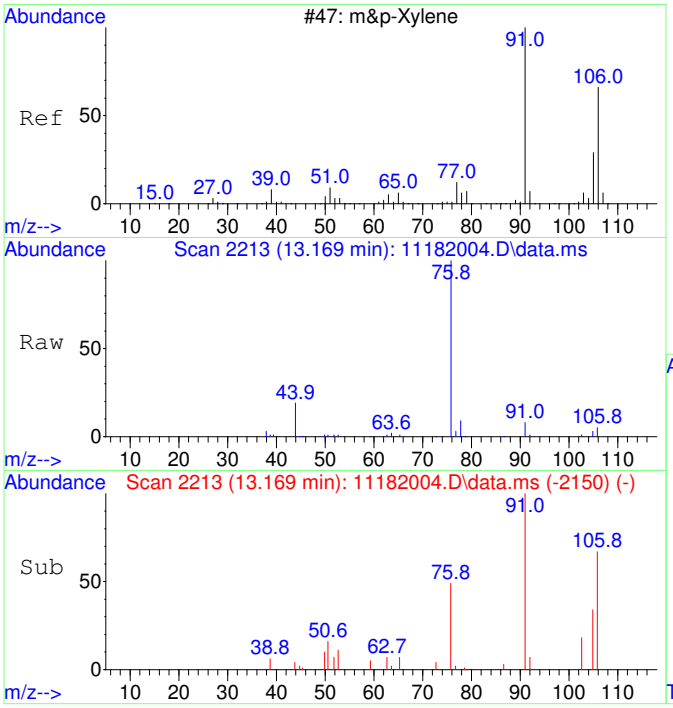


#42
Ethylbenzene SCAN
Concen: 57.51 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 7969

Ion	Ratio	Lower	Upper
91	100		
106	61.4	23.1	83.1
51	17.3	0.0	40.1

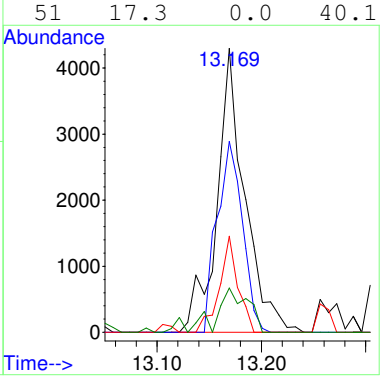


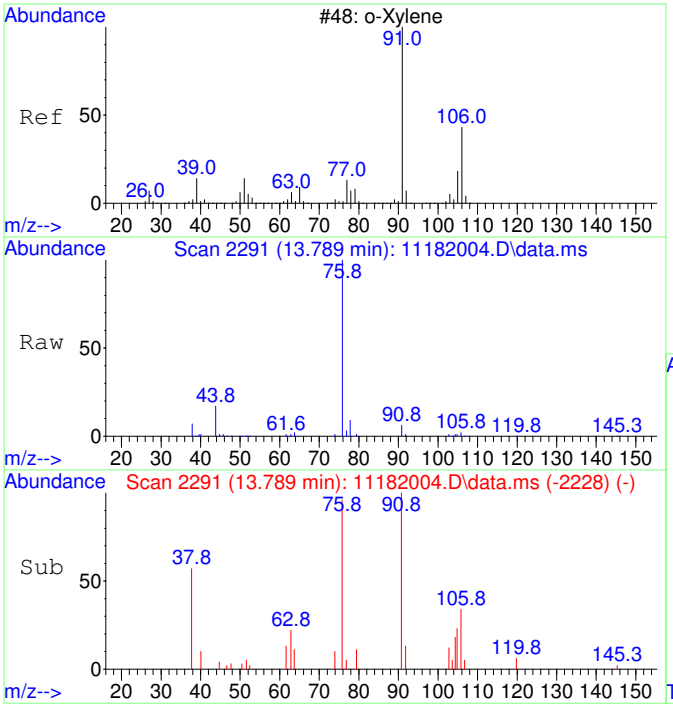


#43
m&p-Xylene SCAN
Concen: 57.51 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 7969

Ion	Ratio	Lower	Upper
91	100		
106	61.4	23.1	83.1
105	22.6	0.0	54.7
51	17.3	0.0	40.1

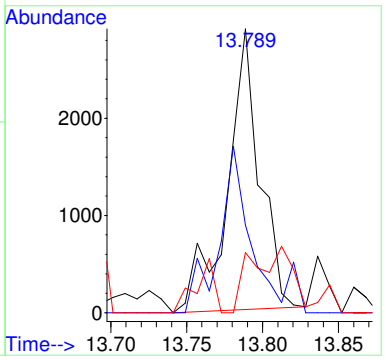


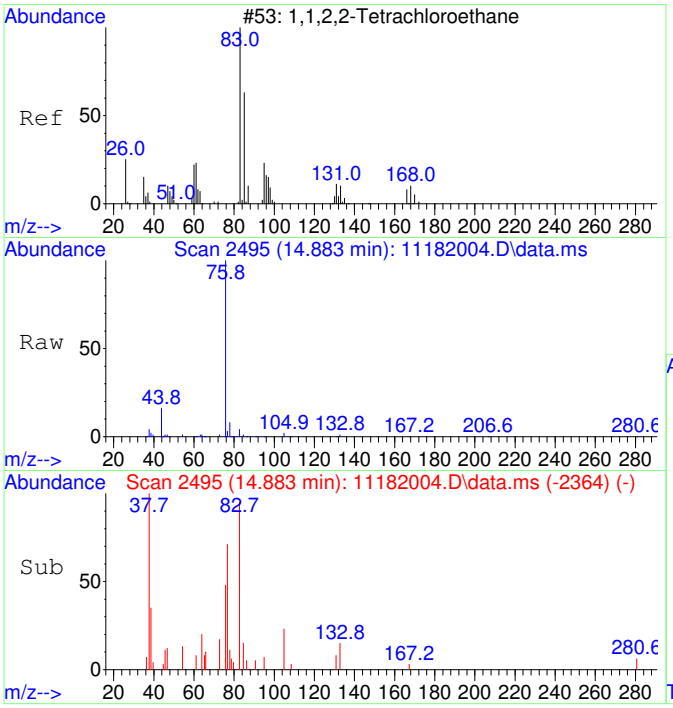


#44
o-Xylene SCAN
Concen: 58.03 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 4304

Ion	Ratio	Lower	Upper
91	100		
106	61.4	18.0	78.0
105	0.0	0.0	56.6

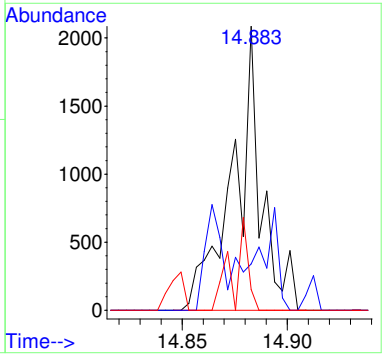


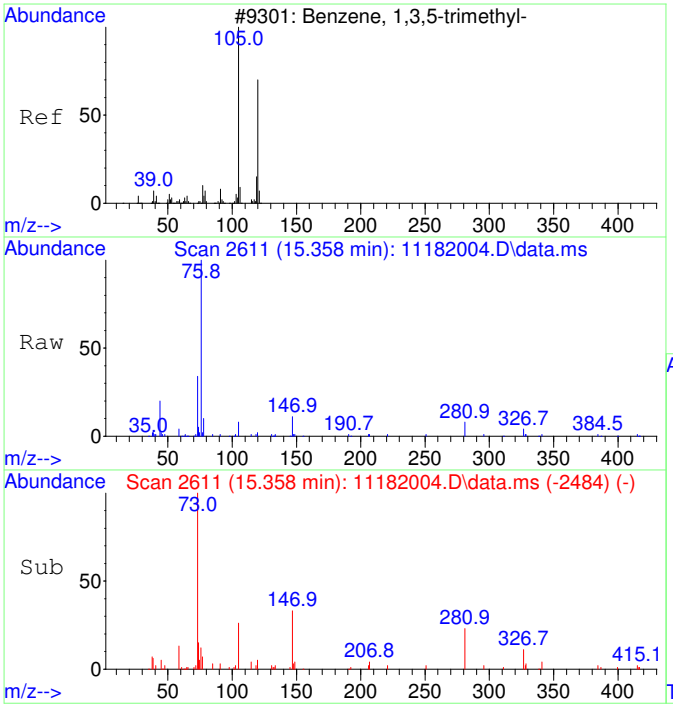


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 52.64 ug/L
RT: 14.883 min Scan# 2495
Delta R.T. 0.011 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 1904

Ion	Ratio	Lower	Upper
83	100		
85	9.0	35.9	95.9#
95	9.7	0.0	47.4

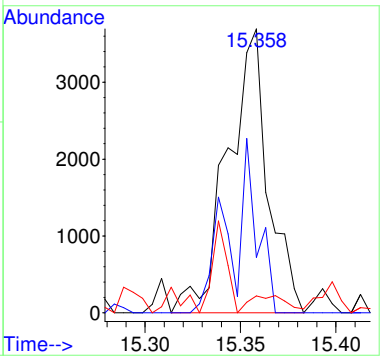


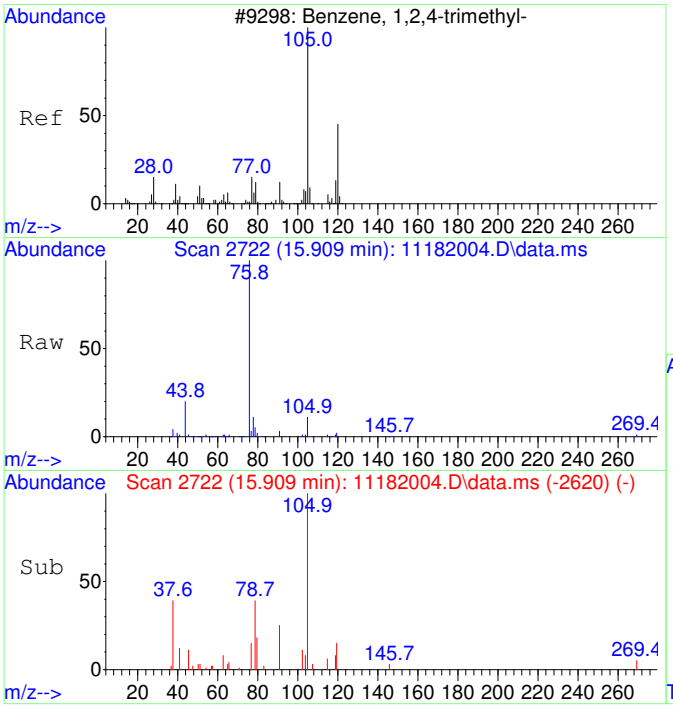


#46
1,3,5-Trimethylbenzene SCAN
Concen: 69.51 ug/L
RT: 15.358 min Scan# 2611
Delta R.T. 0.015 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 5434

Ion	Ratio	Lower	Upper
105	100		
120	20.1	18.3	78.3
119	1.9	0.0	43.1

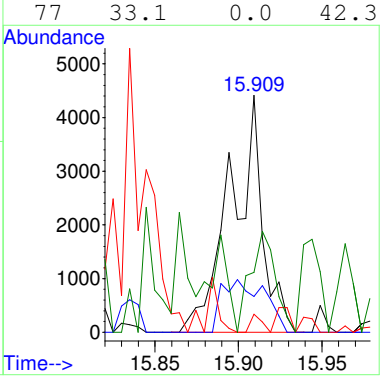


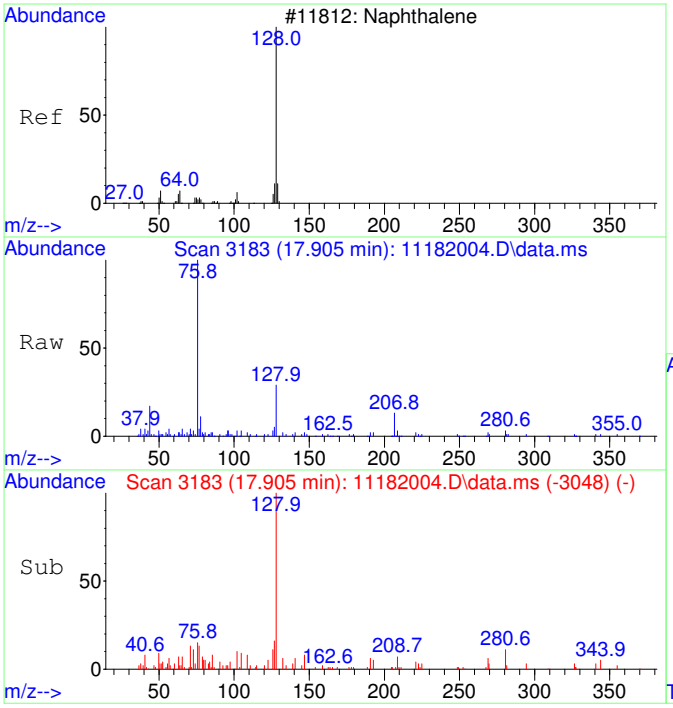


#47
1,2,4-Trimethylbenzene SCAN
Concen: 73.65 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.005 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 5891

Ion	Ratio	Lower	Upper
105	100		
120	29.7	16.9	76.9
119	2.7	0.0	41.9
77	33.1	0.0	42.3

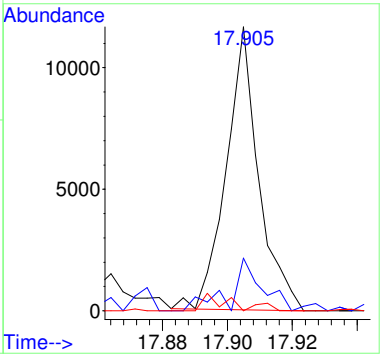




#48
Naphthalene SCAN
Concen: 66.84 ug/L
RT: 17.905 min Scan# 3183
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:128 Resp: 8090

Ion	Ratio	Lower	Upper
128	100		
127	19.9	0.0	44.0
129	5.5	0.0	40.8



Quantitation Report (QT Reviewed)

Table of Contents

M.I. Performed By:
TD at 11:35 am, Nov 18, 2020

M.I. Approved By:
ZR at 3:53 pm, Nov 23, 2020

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182004.D
Acq On : 18 Nov 2020 10:49
InstName : AG5975C
Operator : TD
Sample : S20K077-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 18 11:07:51 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

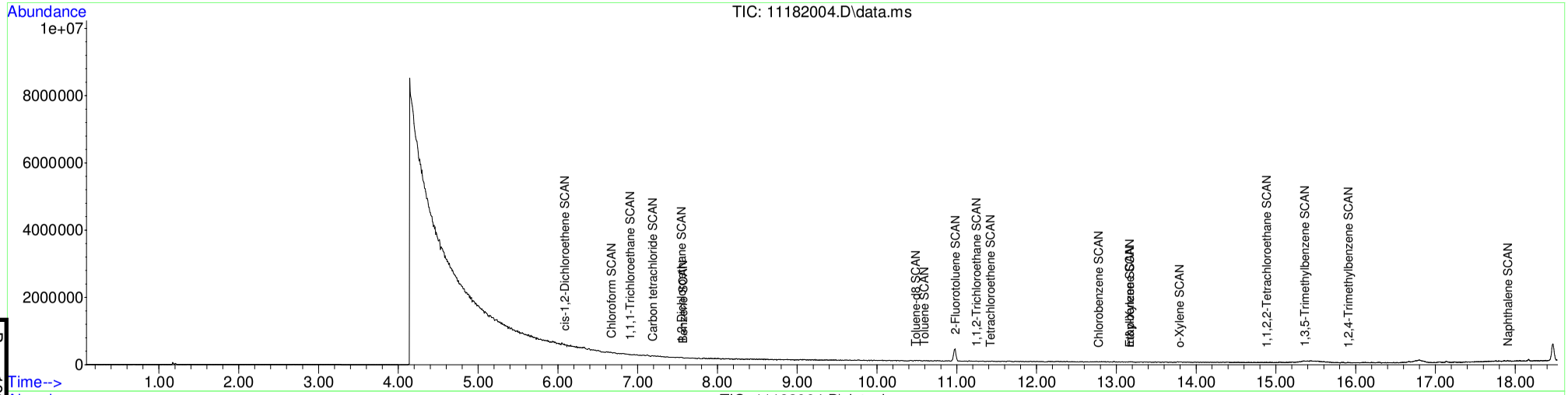
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	623004	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	6041	49.53	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	1085m	43.61	ug/L	
3] trans-1,2-Dichloroethene	4.369	61	1289	44.85	ug/L	51
4] 1,1-Dichloroethane	5.086	63	1668	46.62	ug/L	76
5] cis-1,2-Dichloroethene	6.088	61	1685	44.62	ug/L	97
6] Chloroform	6.652	83	1717	44.42	ug/L	99
7] 1,1,1-Trichloroethane	6.919	97	1808	43.07	ug/L	98
8] Carbon tetrachloride	7.187	117	1736	43.93	ug/L	99
9] Benzene	7.515	78	4454	42.08	ug/L #	1
10] 1,2-Dichloroethane	7.552	62	1701	45.02	ug/L #	28
11] Trichloroethene	8.575	130	1521	47.72	ug/L	91
13] Toluene	10.582	91	7861	50.56	ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	1642	48.46	ug/L	97
15] Tetrachloroethene	11.432	166	2242	49.82	ug/L	95
16] Chlorobenzene	12.765	112	5834	52.40	ug/L	91
17] 1,1,1,2-Tetrachloroethane	12.916	131	1991	49.91	ug/L	97
18] Ethylbenzene	12.972	91	10017	52.93	ug/L	94
19] m&p-Xylene	13.170	91	15524	104.95	ug/L	93
20] o-Xylene	13.782	91	8342	52.79	ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.877	83	3720	53.11	ug/L	99
22] 1,3,5-Trimethylbenzene	15.350	105	9334	55.49	ug/L	99
23] 1,2,4-Trimethylbenzene	15.906	105	9381	53.69	ug/L	96
24] Naphthalene	17.903	128	15551	56.32	ug/L	98
25) 2-Fluorotoluene SCAN	10.979	109	304957	5021.41	ug/L	99
29) cis-1,2-Dichloroethene...	6.086	61	1269	64.13	ug/L #	27
30) Chloroform SCAN	6.675	83	865	40.30	ug/L #	82
31) 1,1,1-Trichloroethane ...	6.906	97	428	21.88	ug/L #	39
32) Carbon tetrachloride SCAN	7.185	117	665	32.59	ug/L #	35
33) Benzene SCAN	7.563	78	17713	328.90	ug/L	91
34) 1,2-Dichloroethane SCAN	7.550	62	1494	75.13	ug/L #	23
36) Toluene-d8 SCAN	10.486	98	2620	44.11	ug/L	66
37) Toluene SCAN	10.591	91	6538	85.96	ug/L #	77
38) 1,1,2-Trichloroethane ...	11.242	97	1223	71.63	ug/L #	23
39) Tetrachloroethene SCAN	11.420	166	516	28.24	ug/L #	25
40) Chlorobenzene SCAN	12.772	112	3138	60.38	ug/L #	41
42) Ethylbenzene SCAN	13.169	91	7969	57.51	ug/L	87
43) m&p-Xylene SCAN	13.169	91	7969	57.51	ug/L	90
44) o-Xylene SCAN	13.789	91	4304	58.03	ug/L #	69
45) 1,1,2,2-Tetrachloroeth...	14.883	83	1904	52.64	ug/L #	40
46) 1,3,5-Trimethylbenzene...	15.358	105	5434	69.51	ug/L	61
47) 1,2,4-Trimethylbenzene...	15.909	105	5891	73.65	ug/L	70
48) Naphthalene SCAN	17.905	128	8090	66.84	ug/L	86

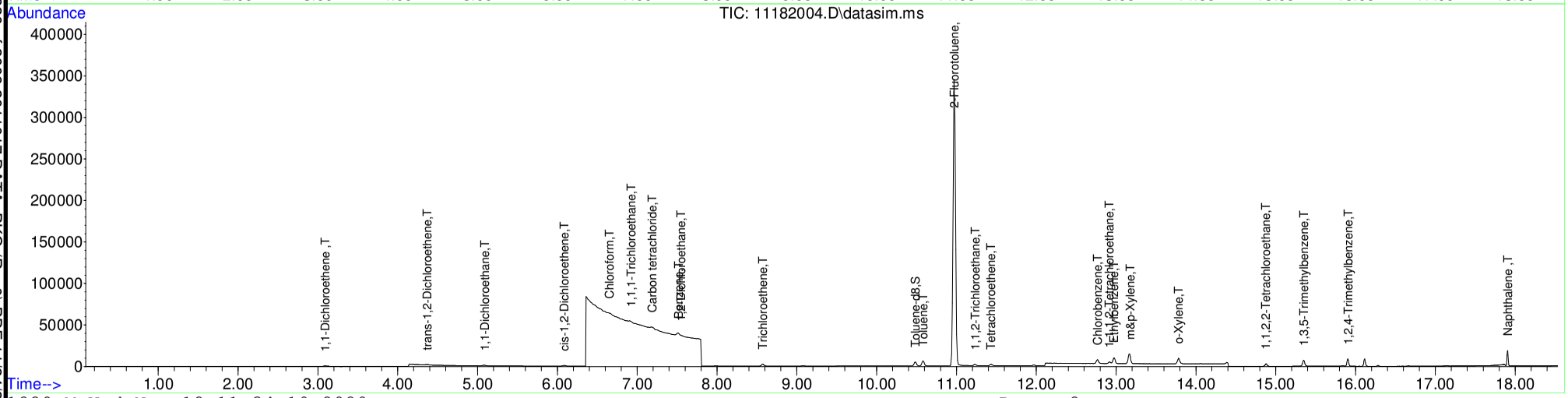
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111820\
Data File : 11182004.D
Acq On : 18 Nov 2020 10:49
InstName : AG5975C
Operator : TD
Sample : S20K077-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 18 11:07:51 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111820.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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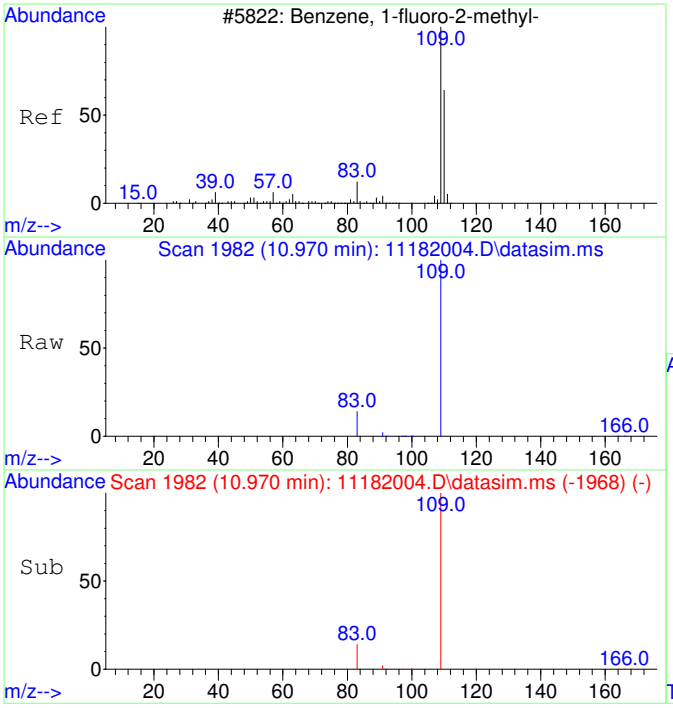
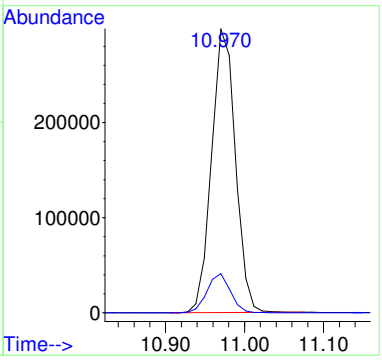
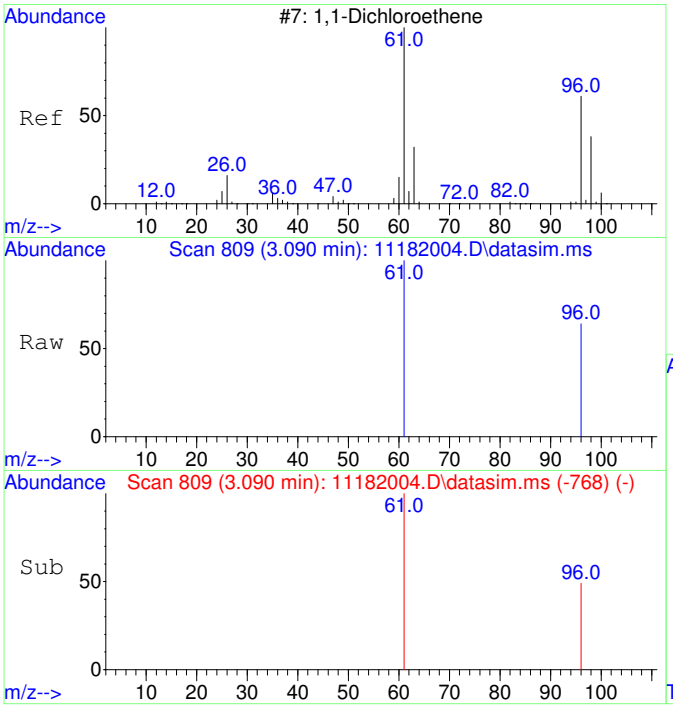


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:109 Resp: 623004

Ion	Ratio	Lower	Upper
109	100		
83	13.4	0.0	42.3

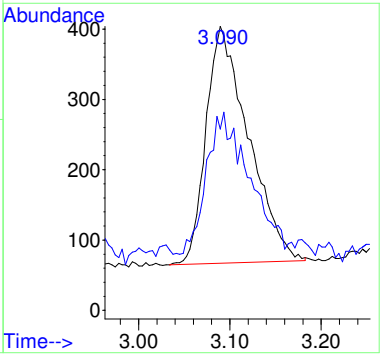


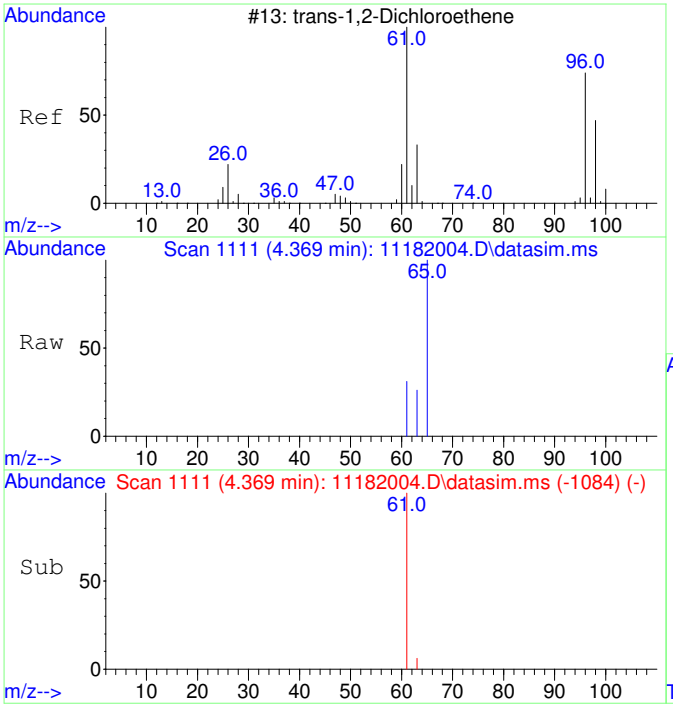


#2
1,1-Dichloroethene
Concen: 43.61 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 61 Resp: 1085

Ion	Ratio	Lower	Upper
61	100		
96	78.2	37.2	97.2

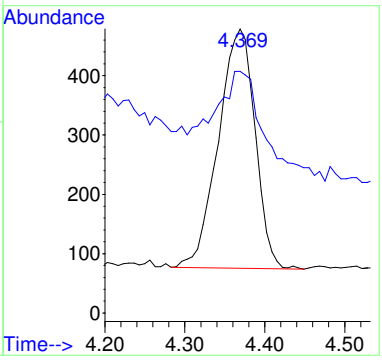


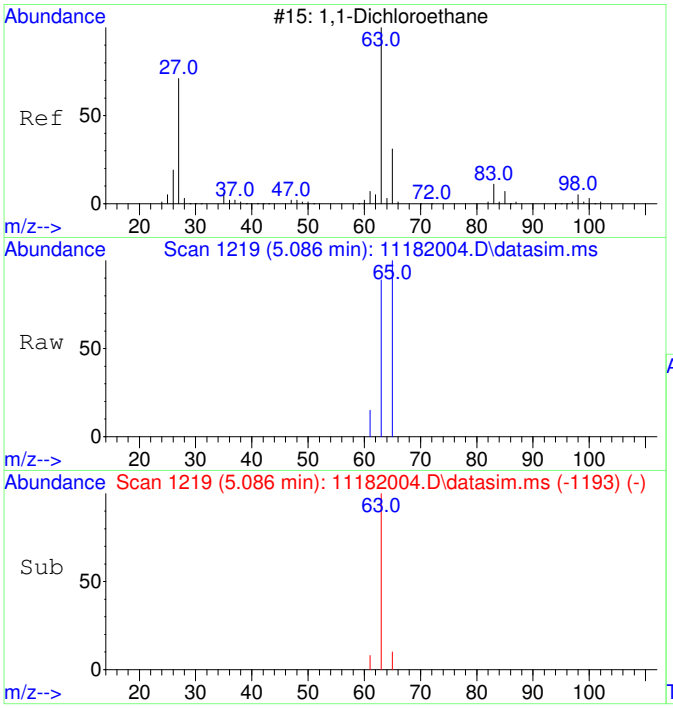


#3
trans-1,2-Dichloroethene
Concen: 44.85 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. 0.026 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 61 Resp: 1289

Ion	Ratio	Lower	Upper
61	100		
63	59.8	2.4	62.4

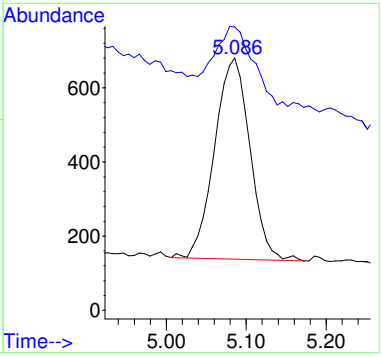


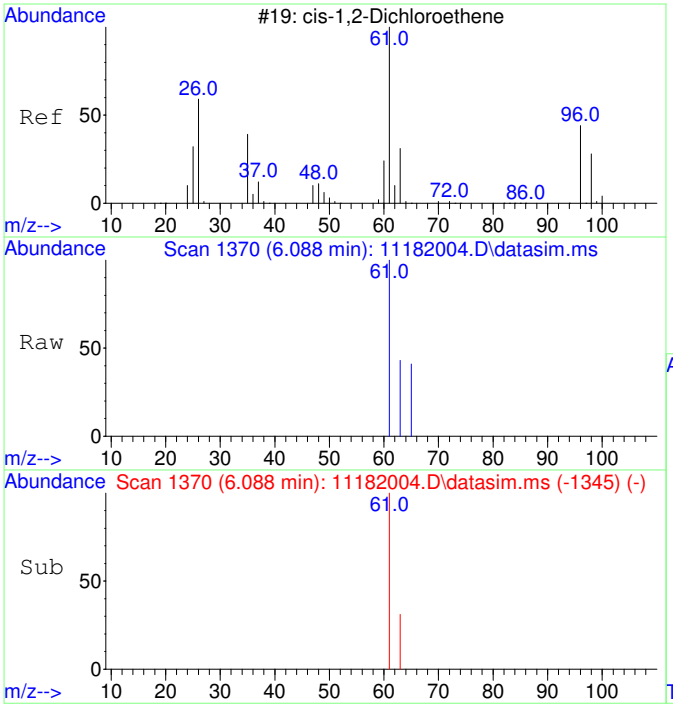


#4
1,1-Dichloroethane
Concen: 46.62 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 63 Resp: 1668

Ion	Ratio	Lower	Upper
63	100		
65	45.1	1.8	61.8

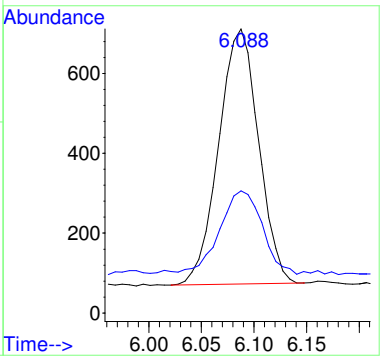


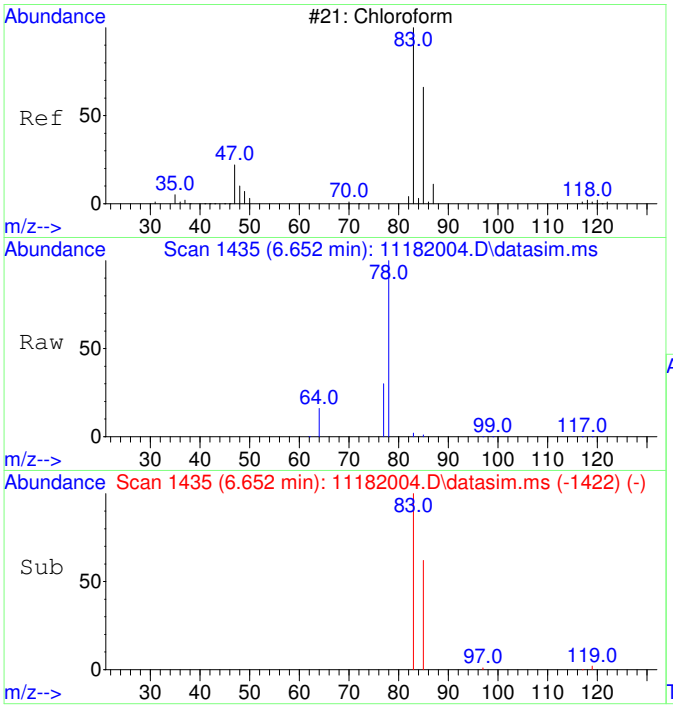


#5
cis-1,2-Dichloroethene
Concen: 44.62 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 61 Resp: 1685

Ion	Ratio	Lower	Upper
61	100		
63	34.2	2.5	62.5

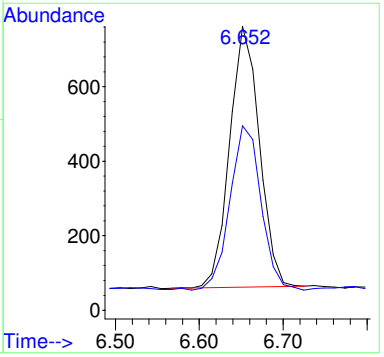


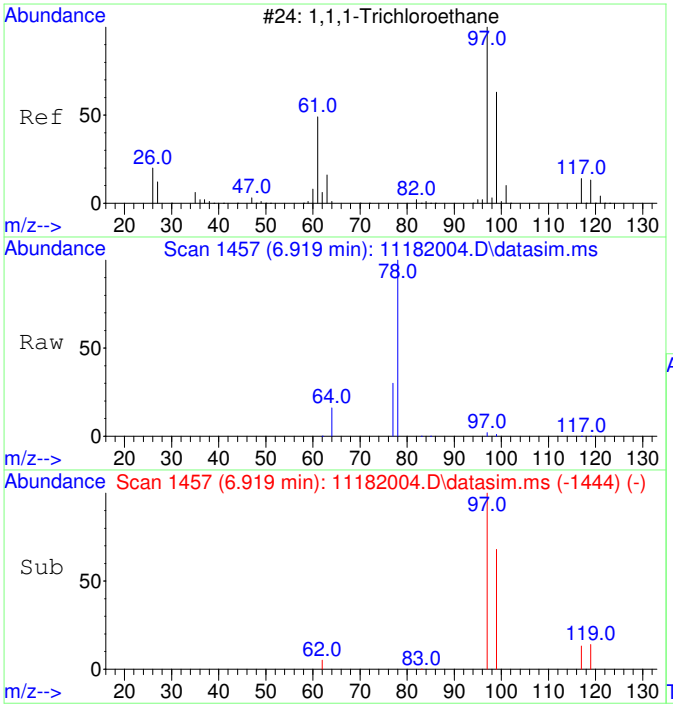


#6
Chloroform
Concen: 44.42 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 1717

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.1	95.1

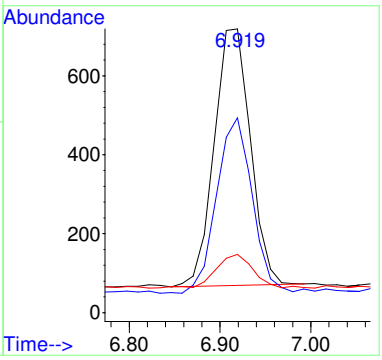


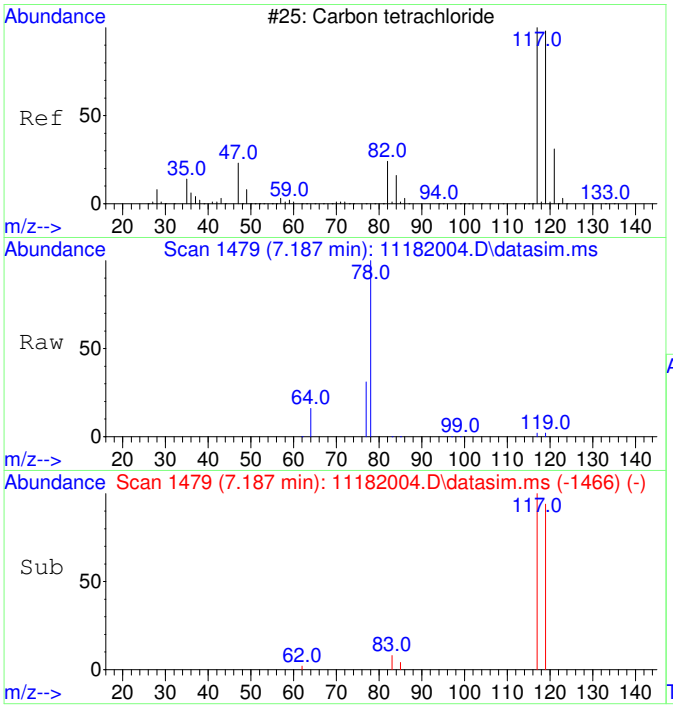


#7
1,1,1-Trichloroethane
Concen: 43.07 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 1808

Ion	Ratio	Lower	Upper
97	100		
99	66.3	34.6	94.6
117	13.8	0.0	43.2

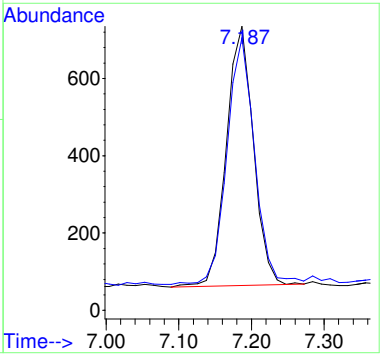


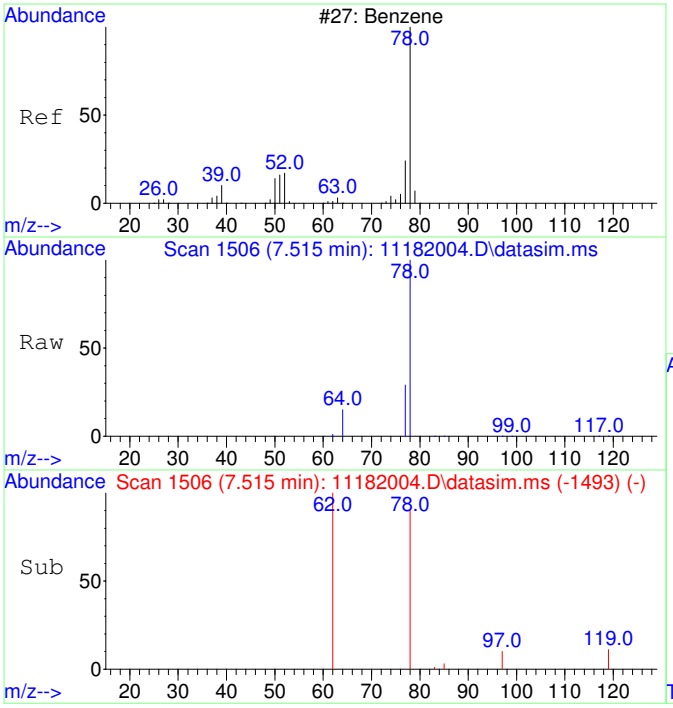


#8
Carbon tetrachloride
Concen: 43.93 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:117 Resp: 1736

Ion	Ratio	Lower	Upper
117	100		
119	97.4	66.4	126.4

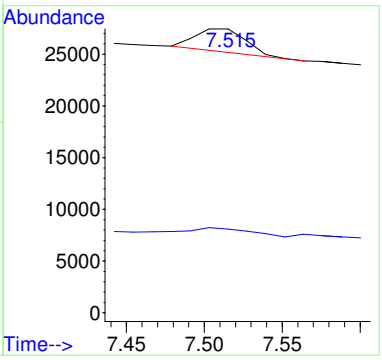


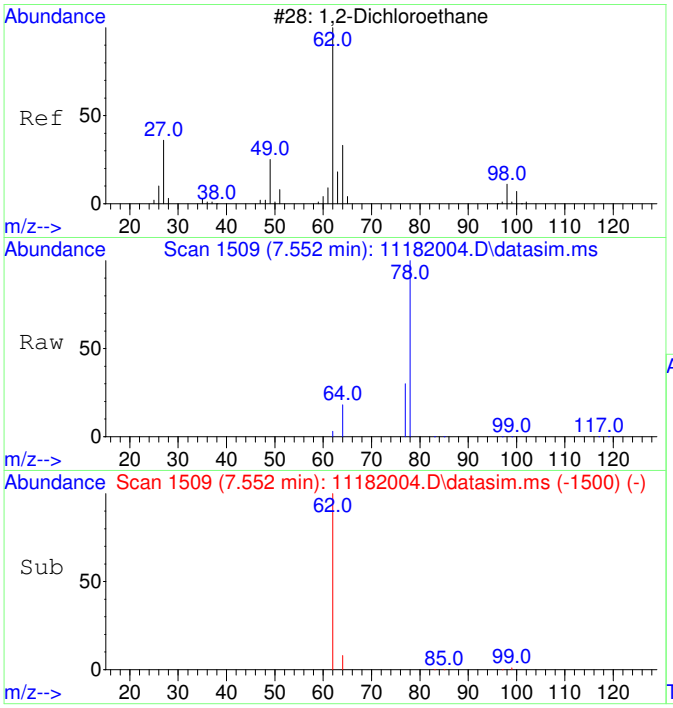


#9
Benzene
Concen: 42.08 ug/L
RT: 7.515 min Scan# 1506
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 78 Resp: 4454

Ion	Ratio	Lower	Upper
78	100		
77	89.1	0.0	53.2#

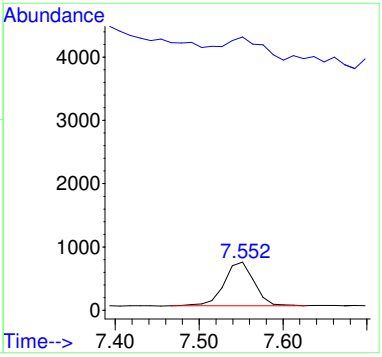


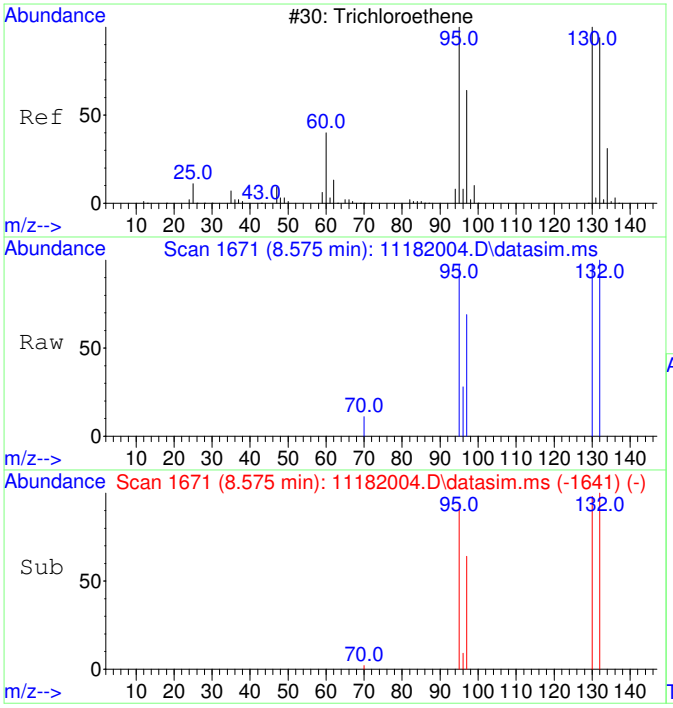


#10
1,2-Dichloroethane
Concen: 45.02 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 62 Resp: 1701

Ion	Ratio	Lower	Upper
62	100		
64	72.8	2.3	62.3#

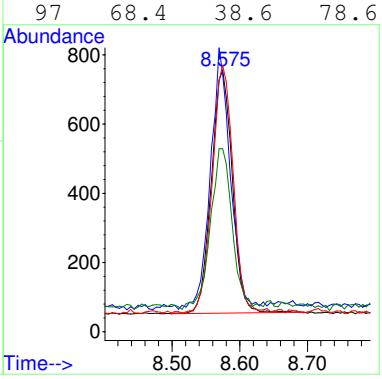


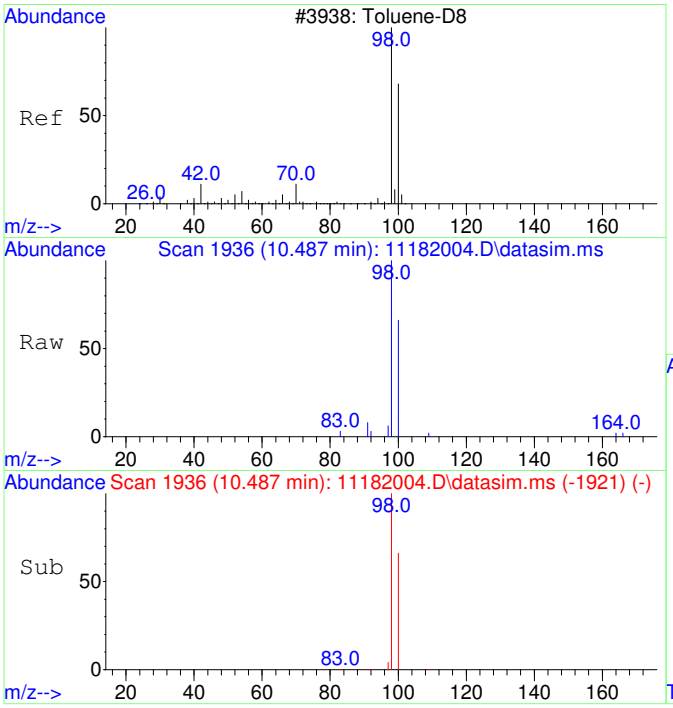


#11
Trichloroethene
Concen: 47.72 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:130 Resp: 1521

Ion	Ratio	Lower	Upper
130	100		
95	101.4	60.7	120.7
132	101.1	76.0	116.0
97	68.4	38.6	78.6

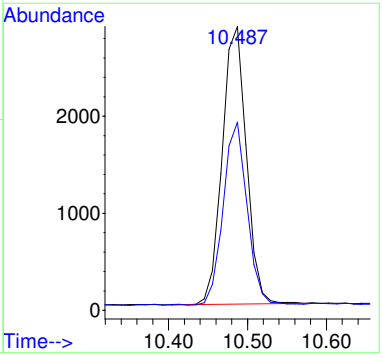


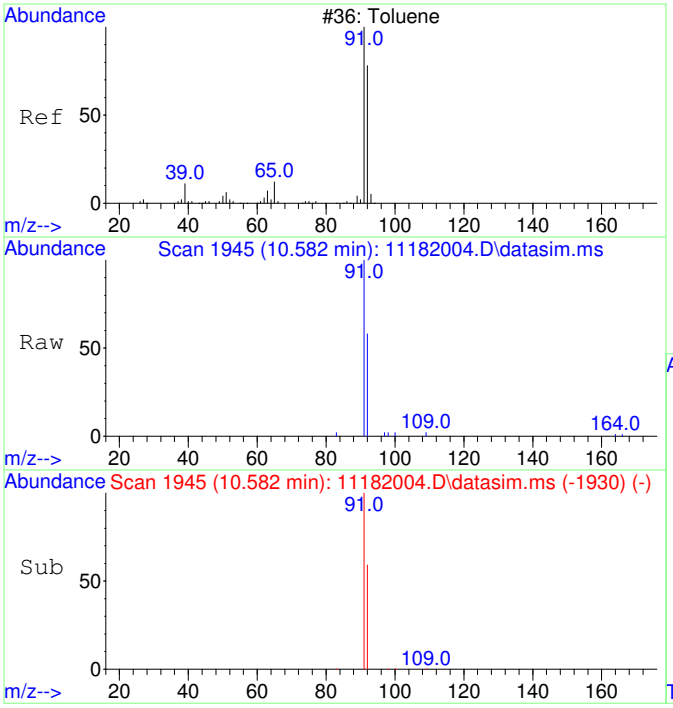


#12
Toluene-d8
Concen: 49.53 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 98 Resp: 6041

Ion	Ratio	Lower	Upper
98	100		
100	64.8	37.1	97.1

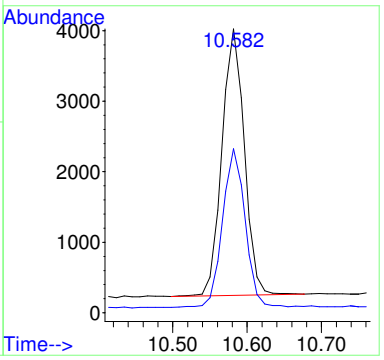


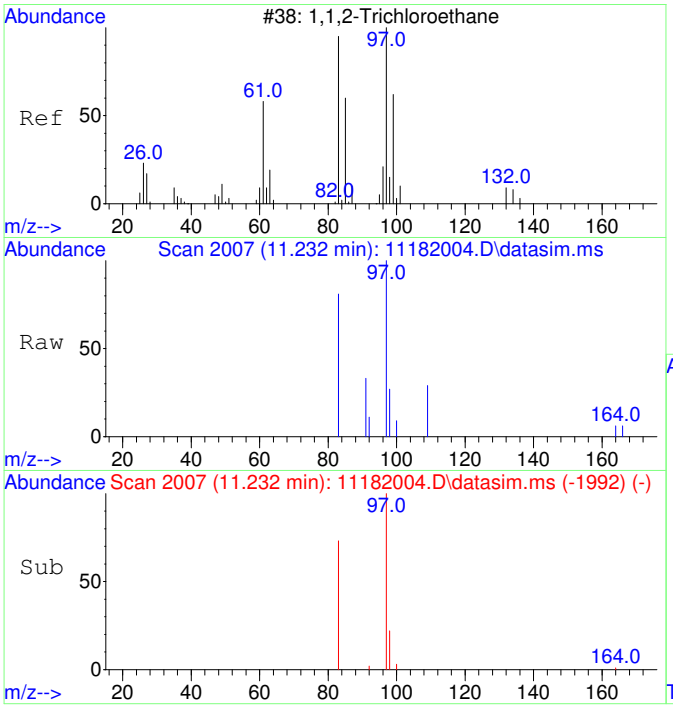


#13
Toluene
Concen: 50.56 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 7861

Ion	Ratio	Lower	Upper
91	100		
92	59.9	29.9	89.9

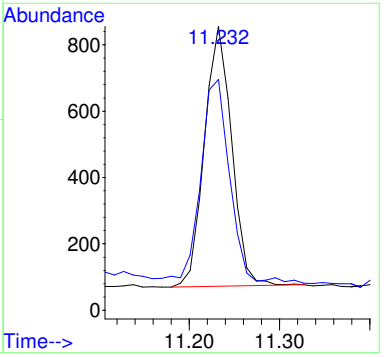


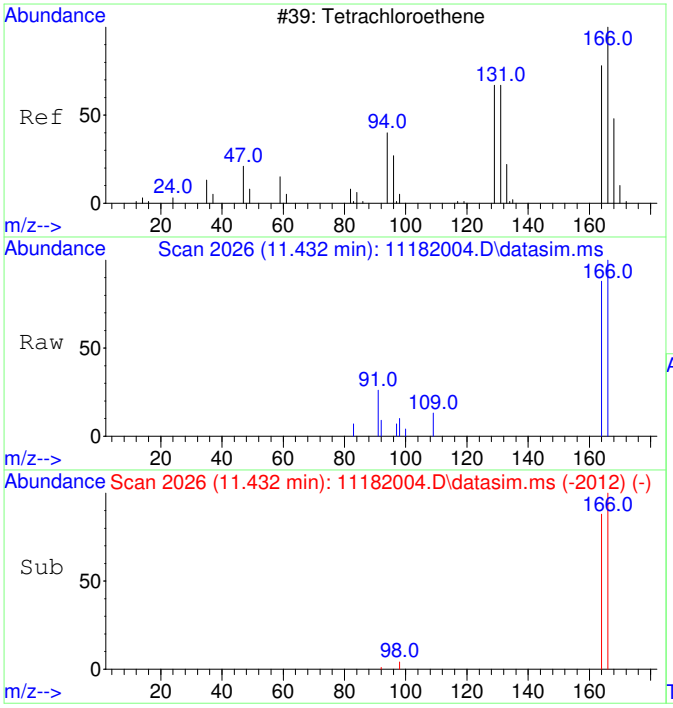


#14
1,1,2-Trichloroethane
Concen: 48.46 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 1642

Ion	Ratio	Lower	Upper
97	100		
83	78.5	51.2	111.2

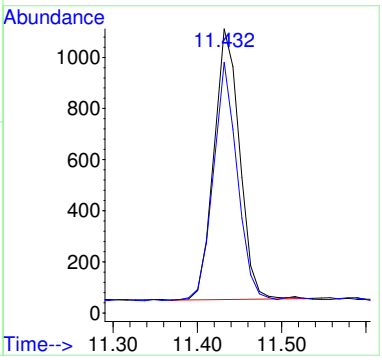


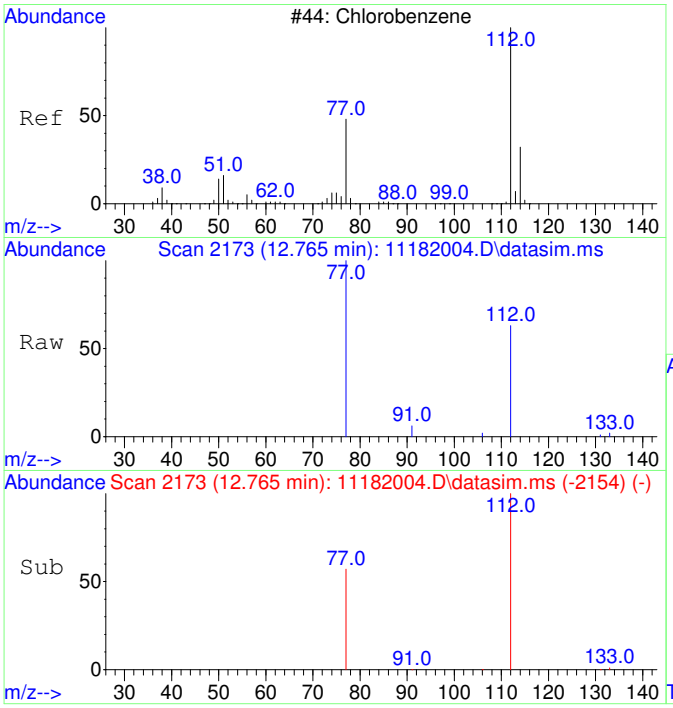


#15
Tetrachloroethene
Concen: 49.82 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:166 Resp: 2242

Ion	Ratio	Lower	Upper
166	100		
164	81.8	47.8	107.8

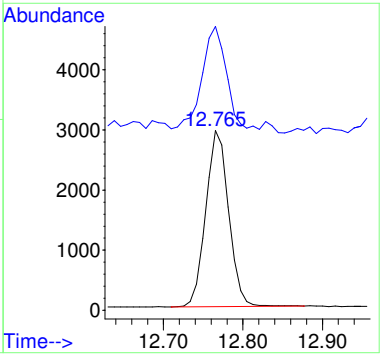


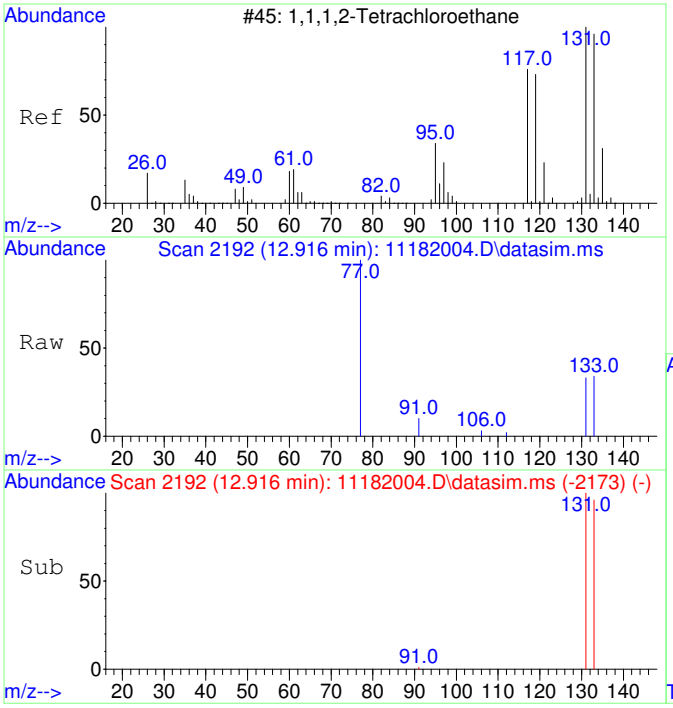


#16
Chlorobenzene
Concen: 52.40 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:112 Resp: 5834

Ion	Ratio	Lower	Upper
112	100		
77	59.9	23.6	83.6

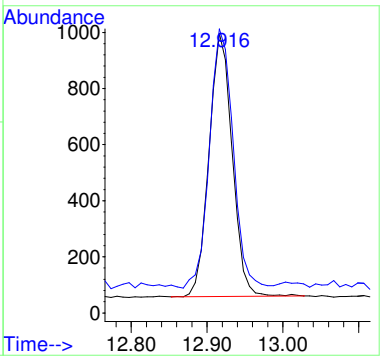


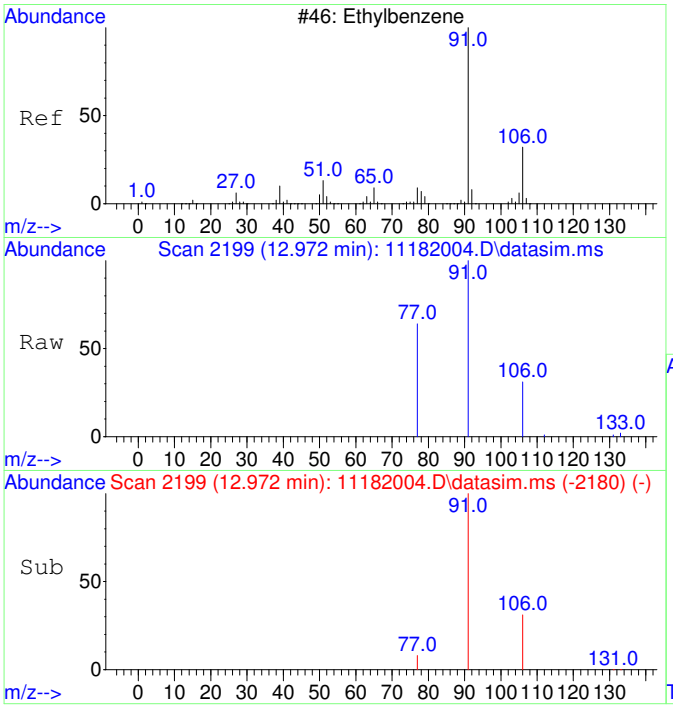


#17
1,1,1,2-Tetrachloroethane
Concen: 49.91 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:131 Resp: 1991

Ion	Ratio	Lower	Upper
131	100		
133	98.9	66.3	126.3

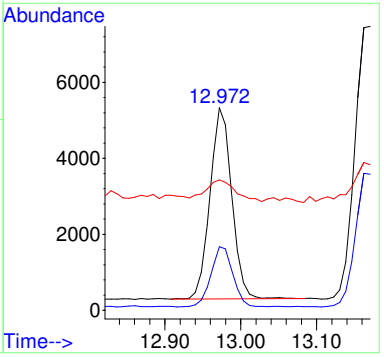


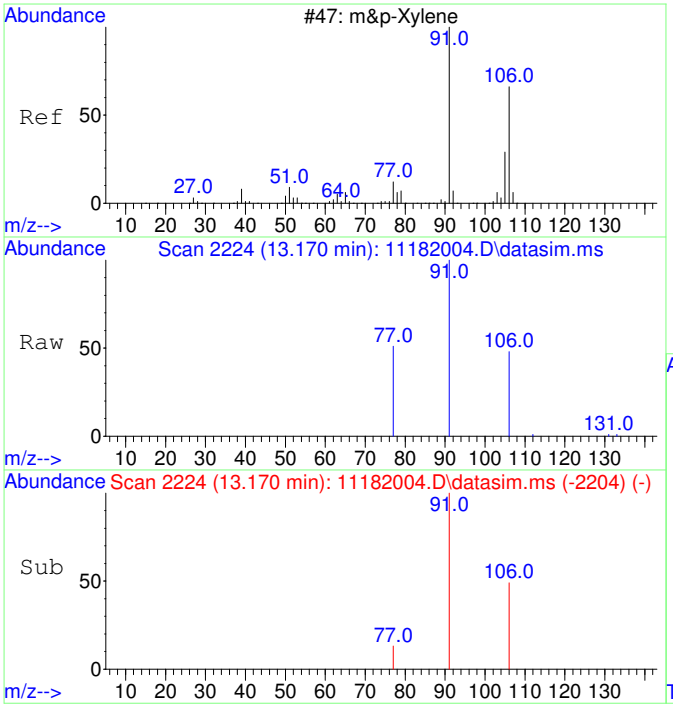


#18
Ethylbenzene
Concen: 52.93 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 10017

Ion	Ratio	Lower	Upper
91	100		
106	31.5	3.0	63.0
77	15.1	0.0	38.2

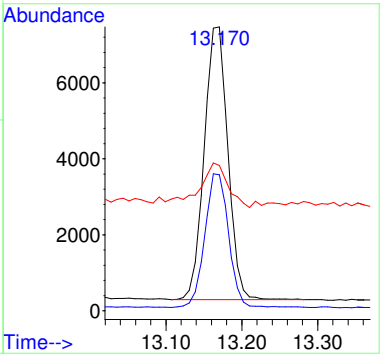


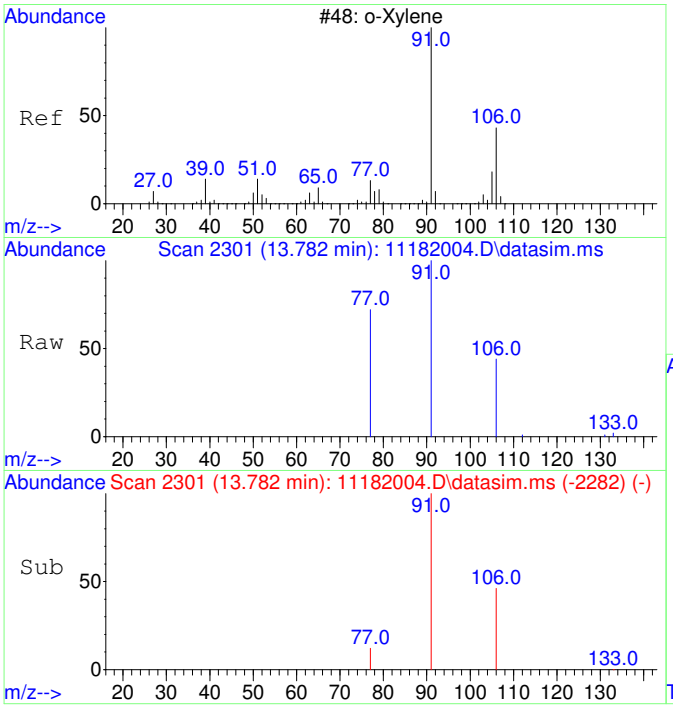


#19
m&p-Xylene
Concen: 104.95 ug/L
RT: 13.170 min Scan# 2224
Delta R.T. 0.008 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 15524

Ion	Ratio	Lower	Upper
91	100		
106	49.2	22.2	82.2
77	20.0	0.0	42.4

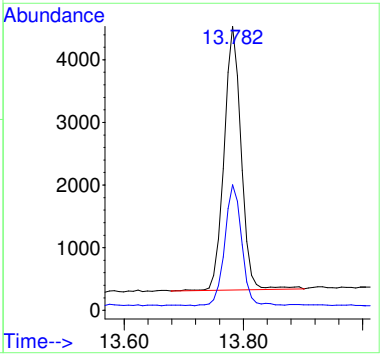


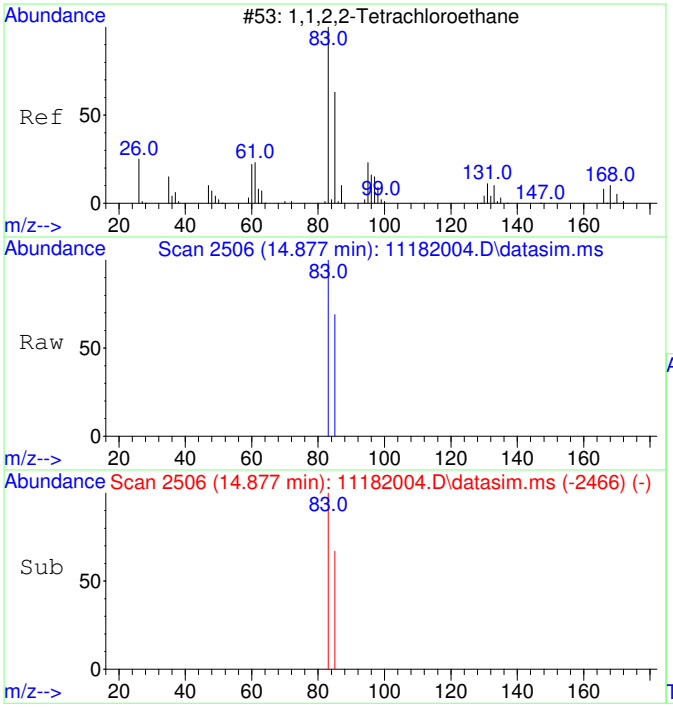


#20
o-Xylene
Concen: 52.79 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 8342

Ion	Ratio	Lower	Upper
91	100		
106	45.4	19.2	79.2

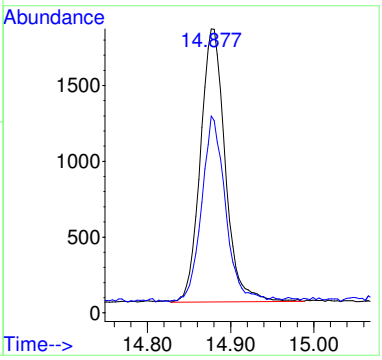


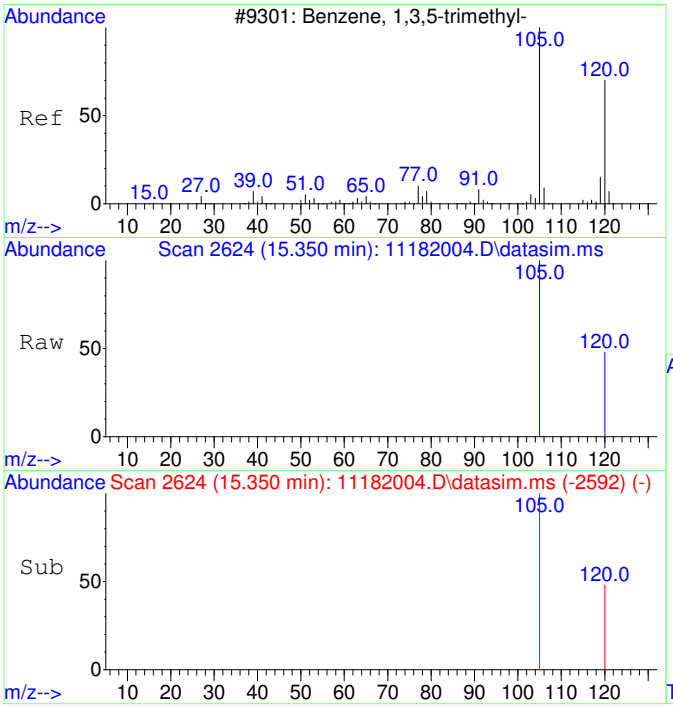


#21
1,1,2,2-Tetrachloroethane
Concen: 53.11 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 3720

Ion	Ratio	Lower	Upper
83	100		
85	63.8	34.8	94.8

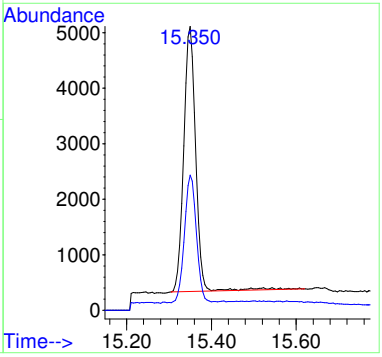


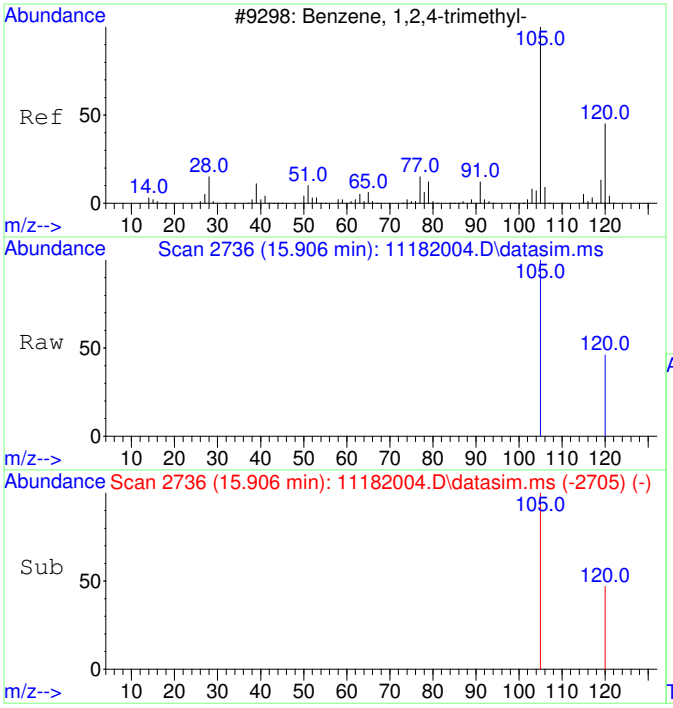


#22
1,3,5-Trimethylbenzene
Concen: 55.49 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 9334

Ion	Ratio	Lower	Upper
105	100		
120	50.7	21.1	81.1

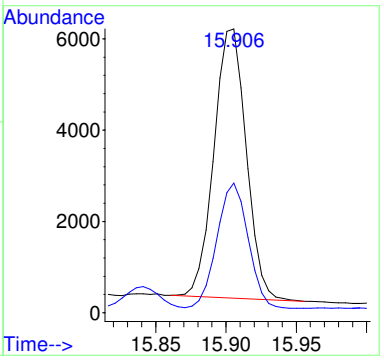


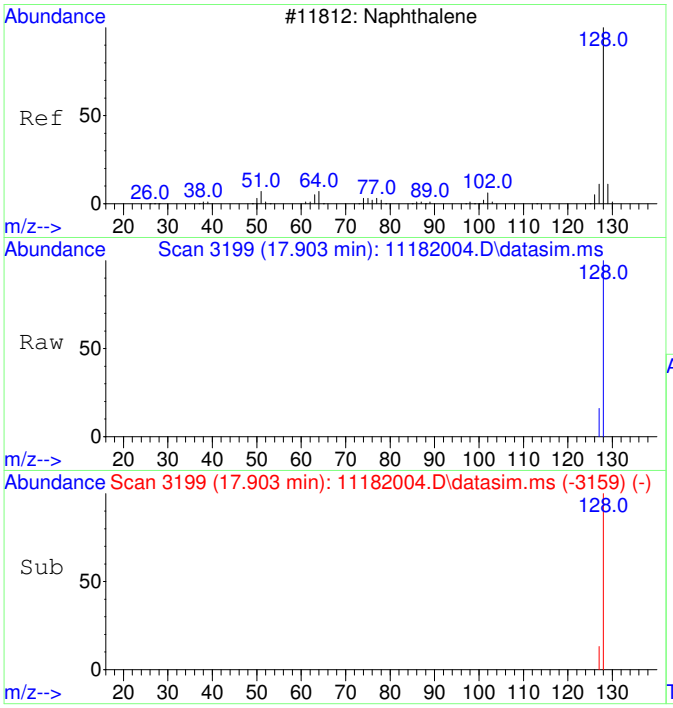


#23
1,2,4-Trimethylbenzene
Concen: 53.69 ug/L
RT: 15.906 min Scan# 2736
Delta R.T. 0.005 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 9381

Ion	Ratio	Lower	Upper
105	100		
120	44.5	17.2	77.2

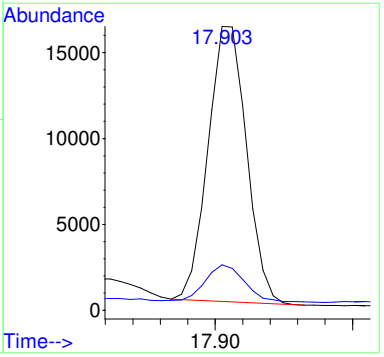


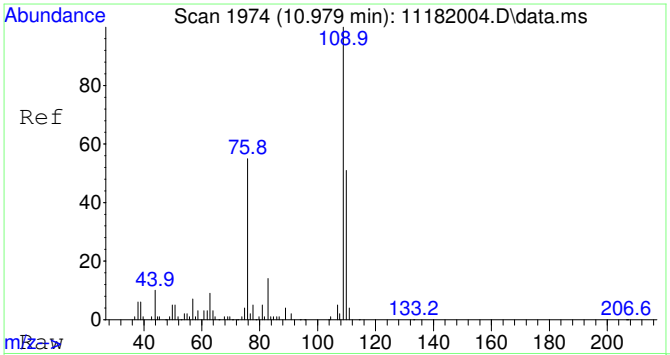


#24
Naphthalene
Concen: 56.32 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:128 Resp: 15551

Ion	Ratio	Lower	Upper
128	100		
127	13.3	0.0	42.5

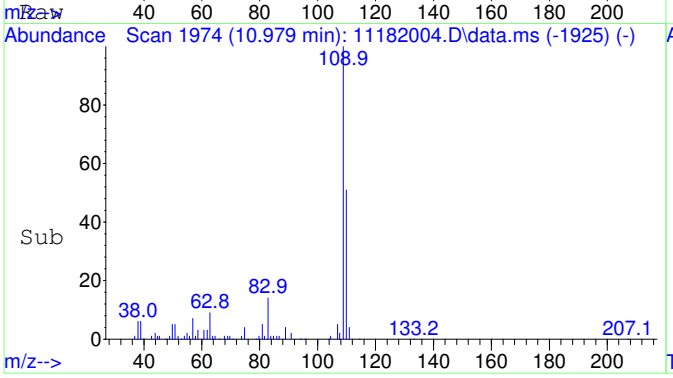


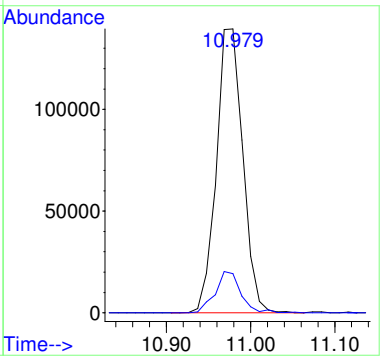


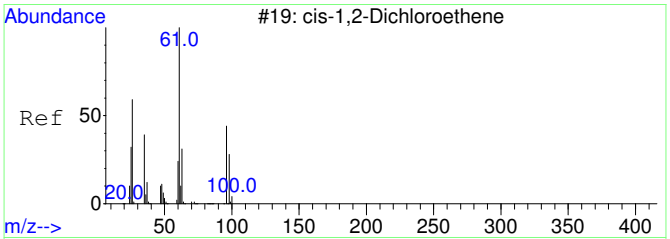
#25
2-Fluorotoluene SCAN
Concen: 5021.41 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:109 Resp: 304957

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	43.8



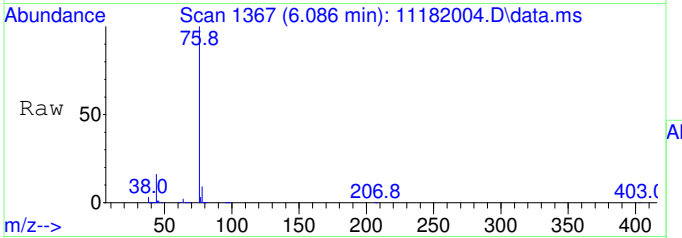


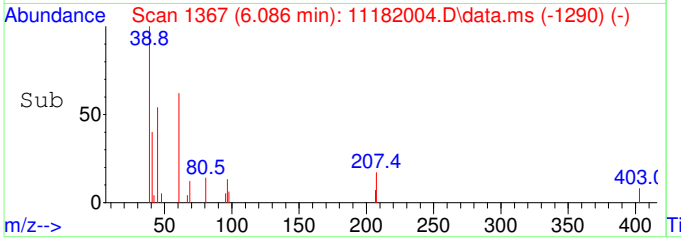


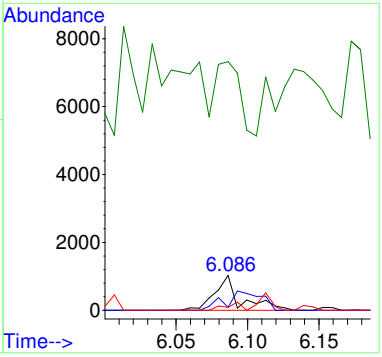
#29
cis-1,2-Dichloroethene SCAN
Concen: 64.13 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. 0.013 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

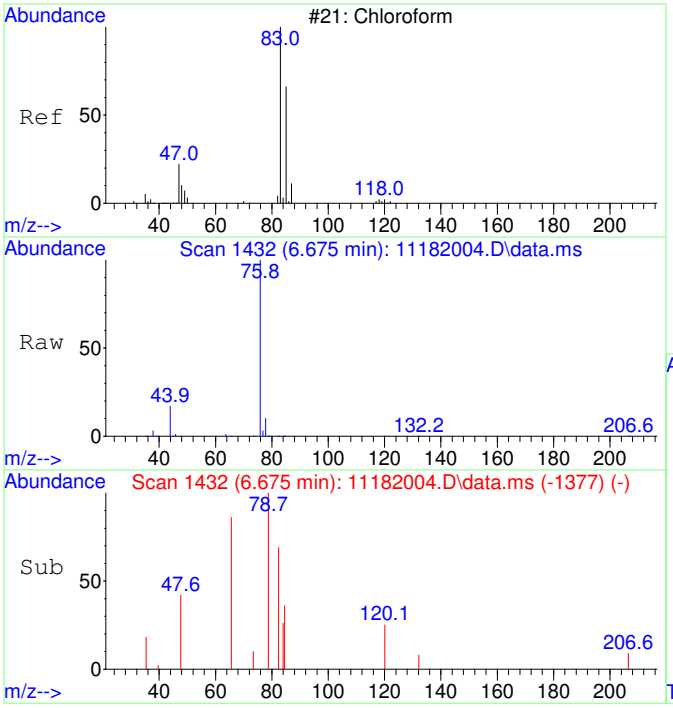
Tgt Ion: 61 Resp: 1269

Ion	Ratio	Lower	Upper
61	100		
96	77.5	39.9	99.9
98	0.0	13.5	73.5#
64	154.5	4.5	64.5#





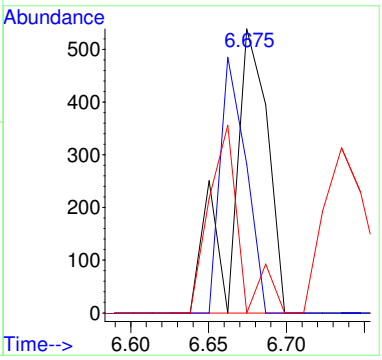


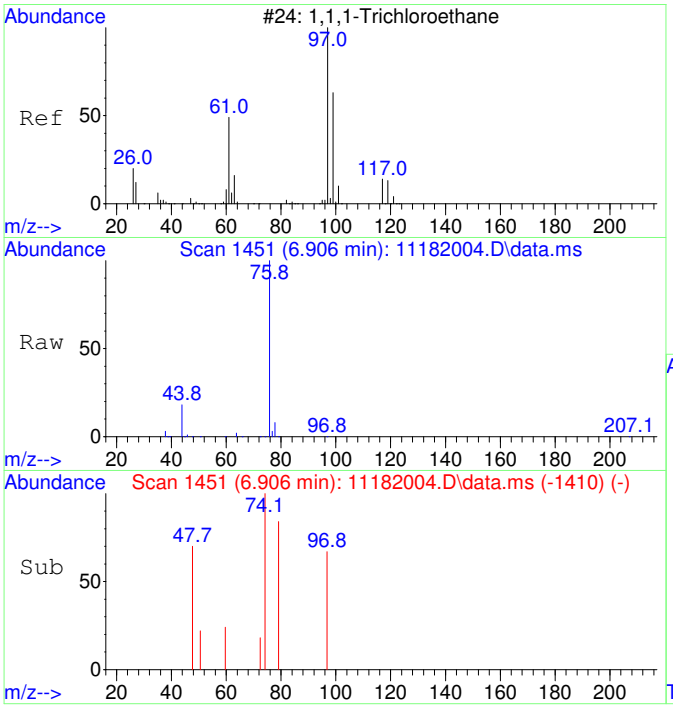


#30
Chloroform SCAN
Concen: 40.30 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.024 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 865

Ion	Ratio	Lower	Upper
83	100		
85	64.7	34.6	94.6
47	56.2	0.0	53.4#

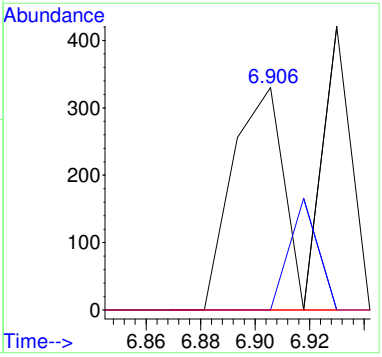


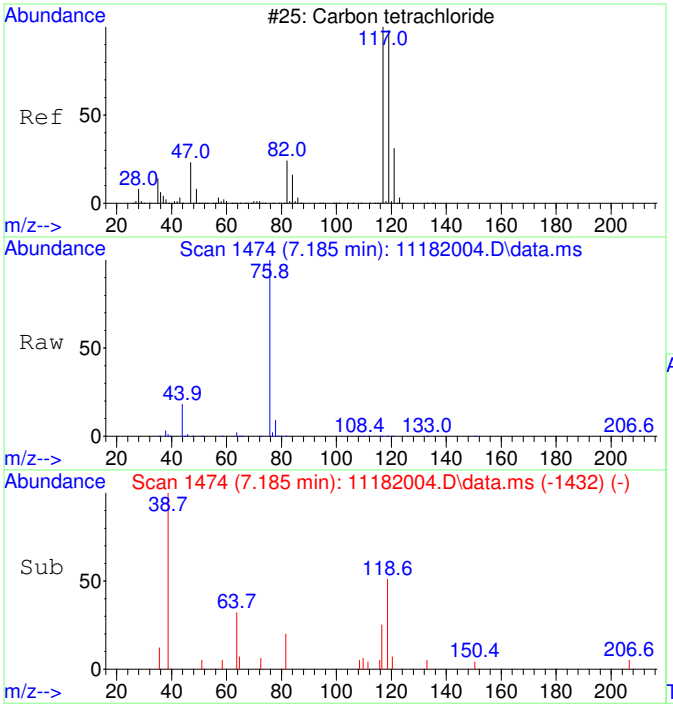


#31
1,1,1-Trichloroethane SCAN
Concen: 21.88 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 428

Ion	Ratio	Lower	Upper
97	100		
99	28.3	43.6	103.6#
61	0.0	18.0	78.0#

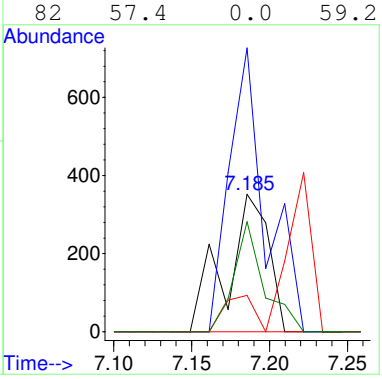


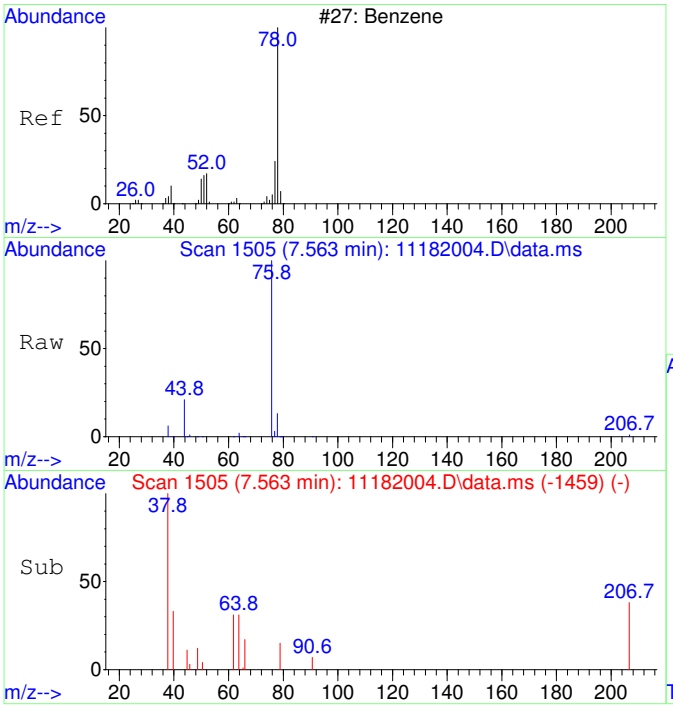


#32
Carbon tetrachloride SCAN
Concen: 32.59 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.012 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:117 Resp: 665

Ion	Ratio	Lower	Upper
117	100		
119	178.3	75.5	135.5#
121	0.0	0.0	58.8
82	57.4	0.0	59.2

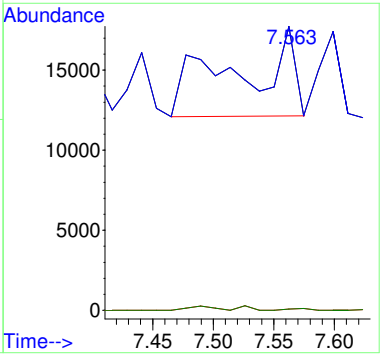


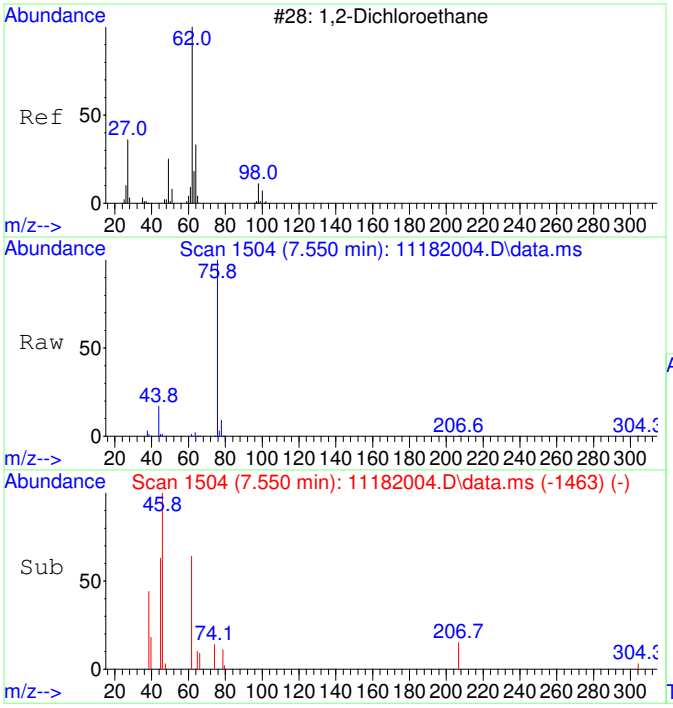


#33
Benzene SCAN
Concen: 328.90 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.061 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 78 Resp: 17713

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	0.8	0.0	47.9
51	0.8	0.0	44.1

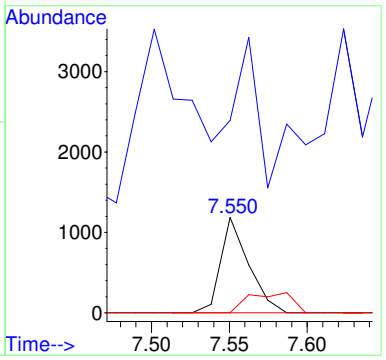


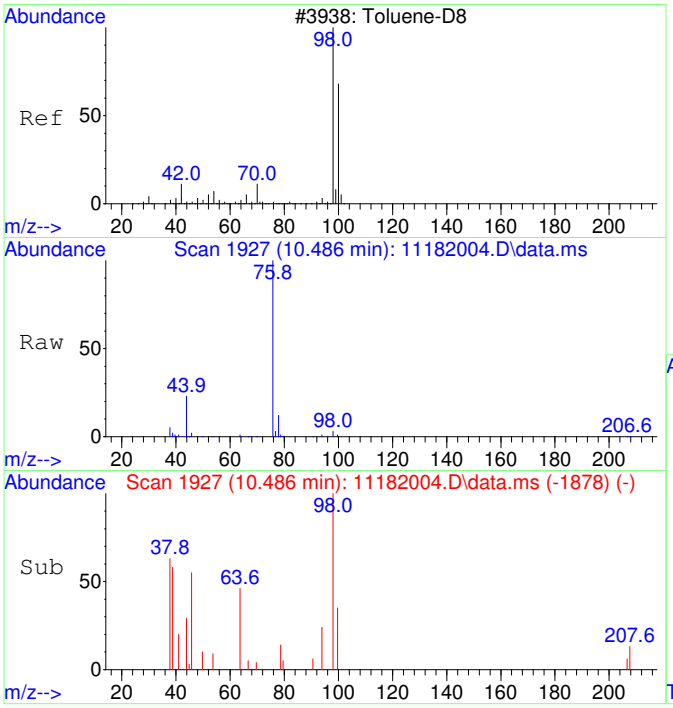


#34
1,2-Dichloroethane SCAN
Concen: 75.13 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 62 Resp: 1494

Ion	Ratio	Lower	Upper
62	100		
64	90.4	5.2	65.2#
49	0.0	3.9	63.9#

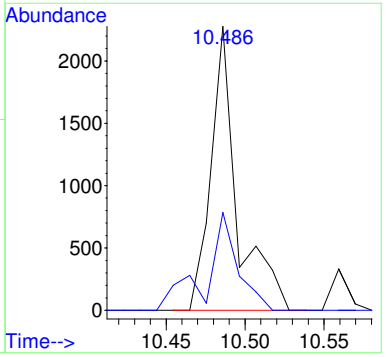


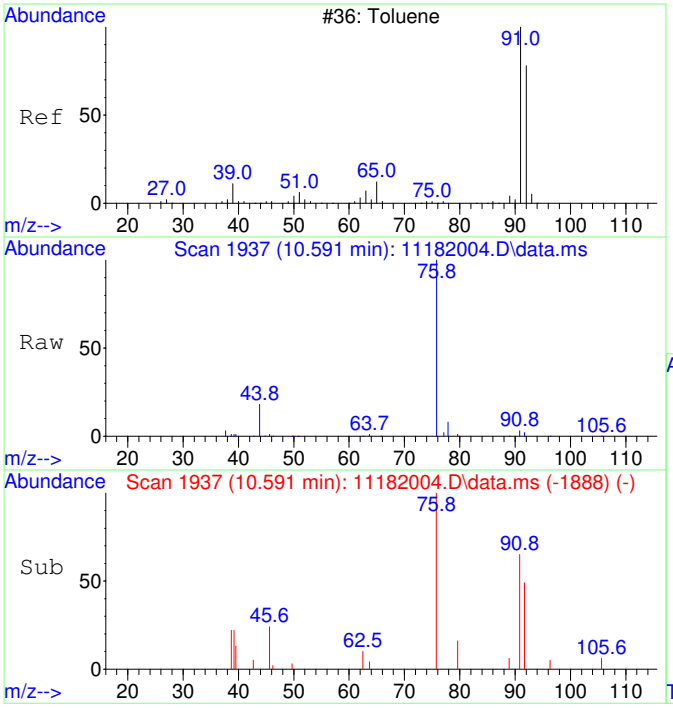


#36
Toluene-d8 SCAN
Concen: 44.11 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 98 Resp: 2620

Ion	Ratio	Lower	Upper
98	100		
100	42.0	40.0	100.0

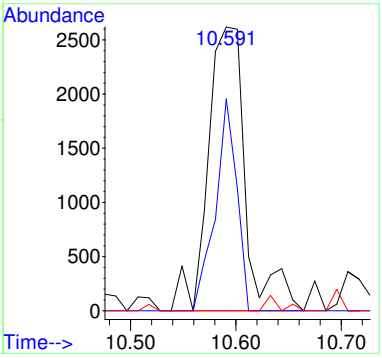


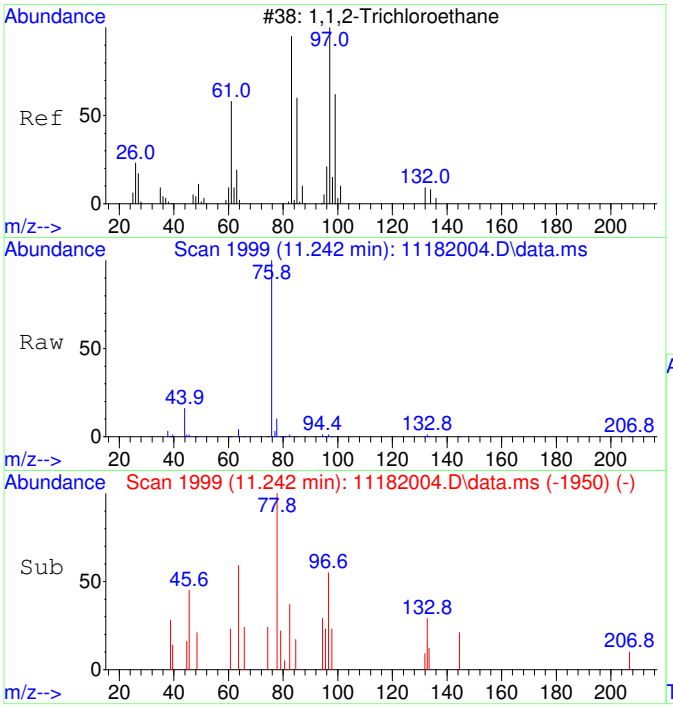


#37
Toluene SCAN
Concen: 85.96 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 6538

Ion	Ratio	Lower	Upper
91	100		
92	42.3	28.3	88.3
65	0.0	0.0	41.0

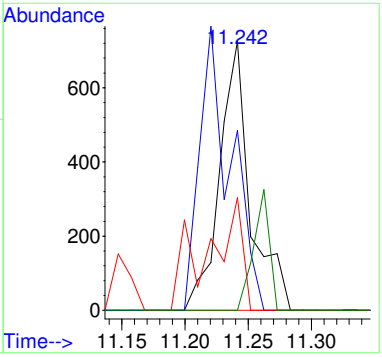


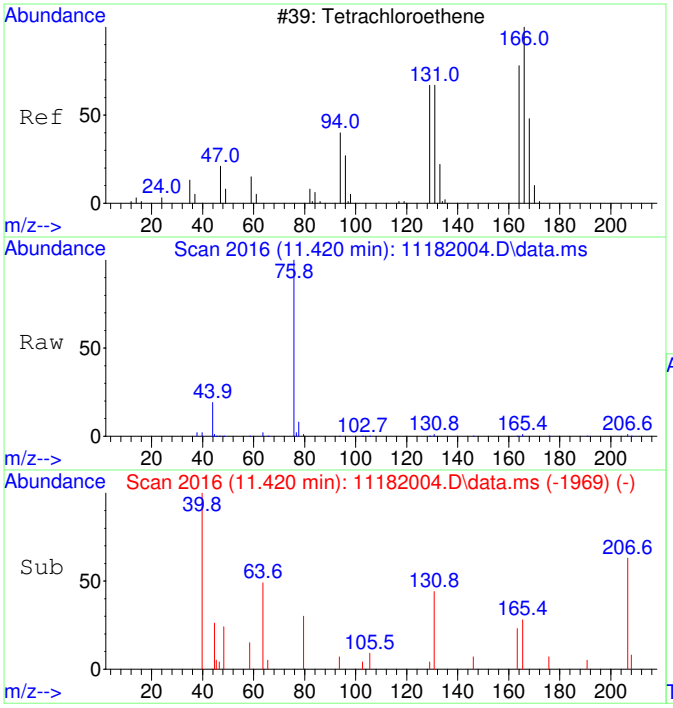


#38
1,1,2-Trichloroethane SCAN
Concen: 71.63 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. 0.010 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 97 Resp: 1223

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	25.8	32.1	92.1#
99	0.0	36.7	96.7#

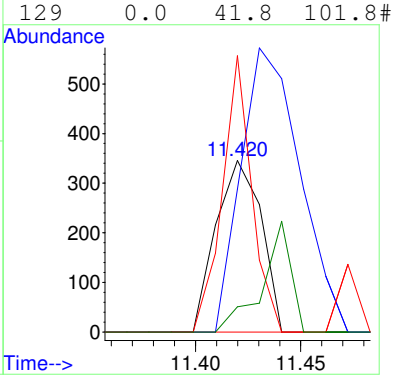


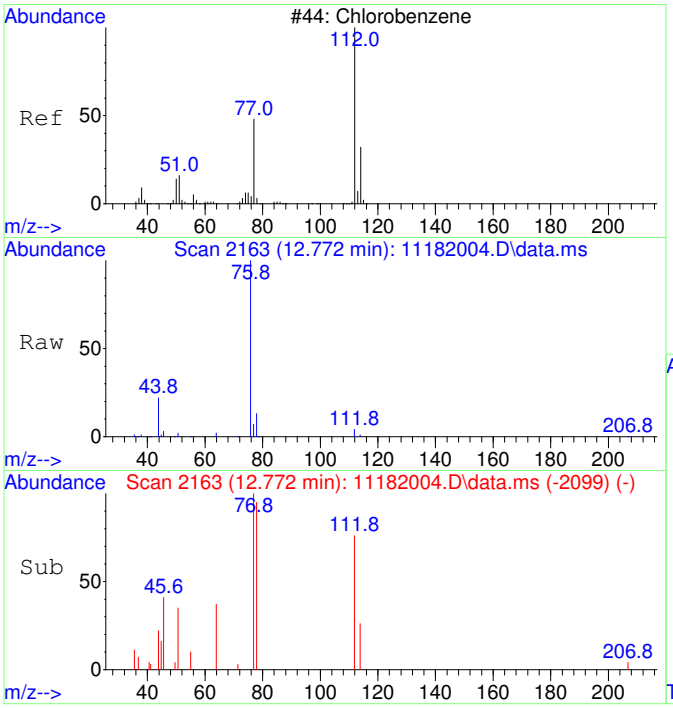


#39
Tetrachloroethene SCAN
Concen: 28.24 ug/L
RT: 11.420 min Scan# 2016
Delta R.T. -0.011 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:166 Resp: 516

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	105.0	38.7	98.7#
129	0.0	41.8	101.8#

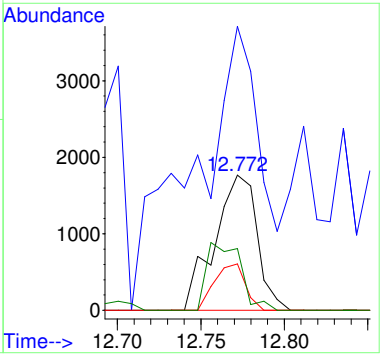


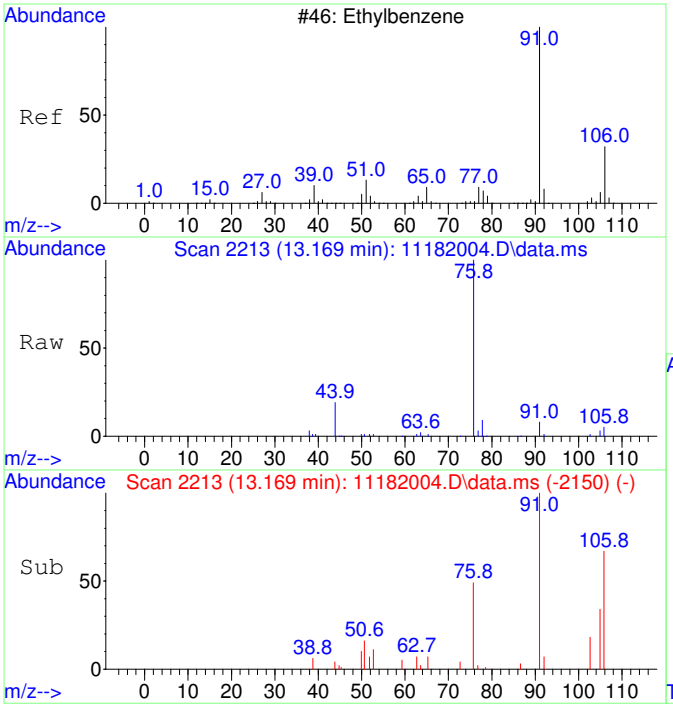


#40
Chlorobenzene SCAN
Concen: 60.38 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:112 Resp: 3138

Ion	Ratio	Lower	Upper
112	100		
77	124.3	28.2	88.2#
114	25.0	2.3	62.3
51	40.4	0.0	50.1

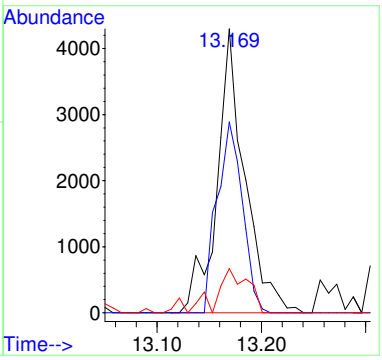


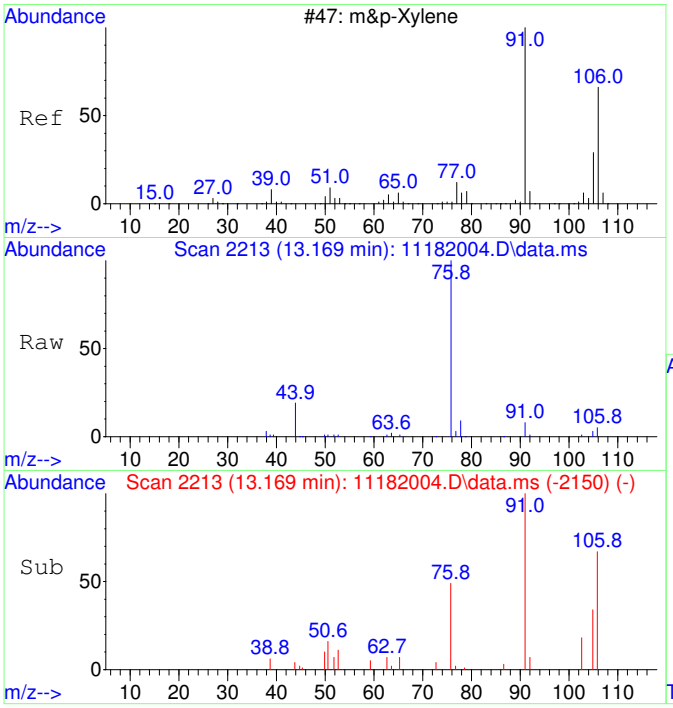


#42
Ethylbenzene SCAN
Concen: 57.51 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 7969

Ion	Ratio	Lower	Upper
91	100		
106	61.4	23.1	83.1
51	17.3	0.0	40.1

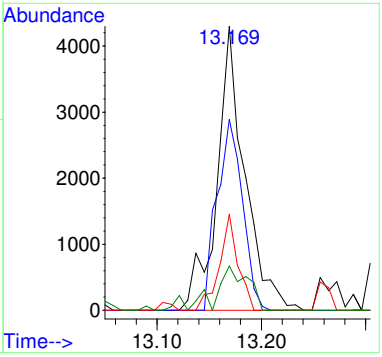


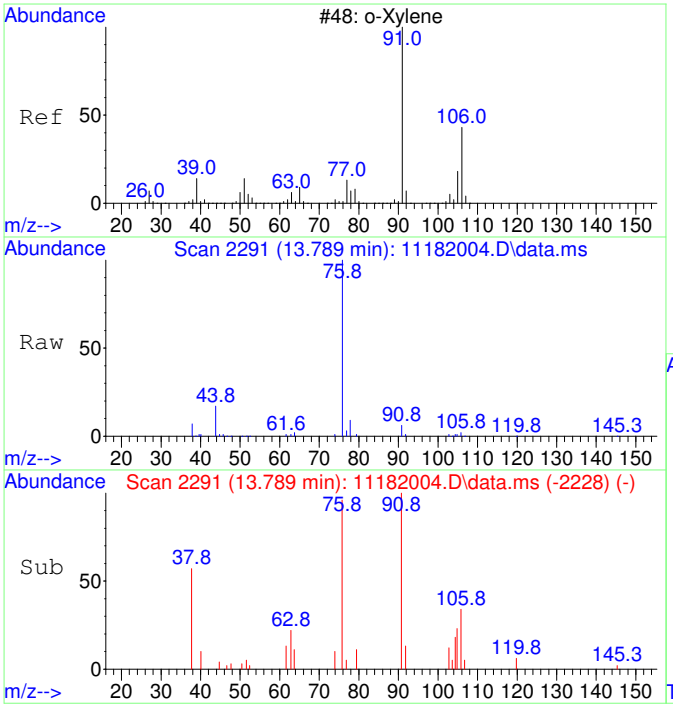


#43
m&p-Xylene SCAN
Concen: 57.51 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 7969

Ion	Ratio	Lower	Upper
91	100		
106	61.4	23.1	83.1
105	22.6	0.0	54.7
51	17.3	0.0	40.1

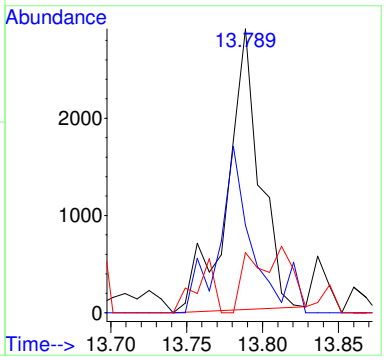


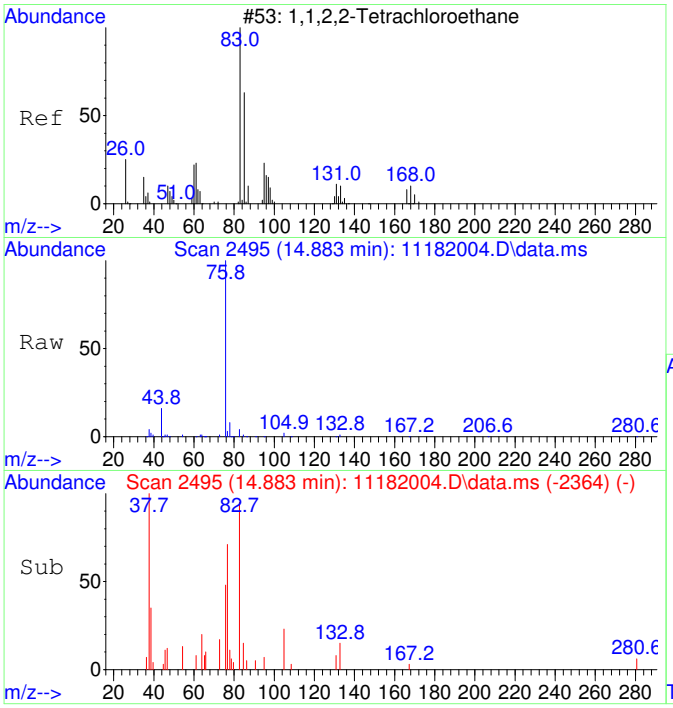


#44
o-Xylene SCAN
Concen: 58.03 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 91 Resp: 4304

Ion	Ratio	Lower	Upper
91	100		
106	61.4	18.0	78.0
105	0.0	0.0	56.6

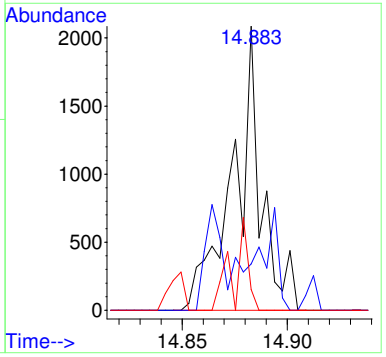


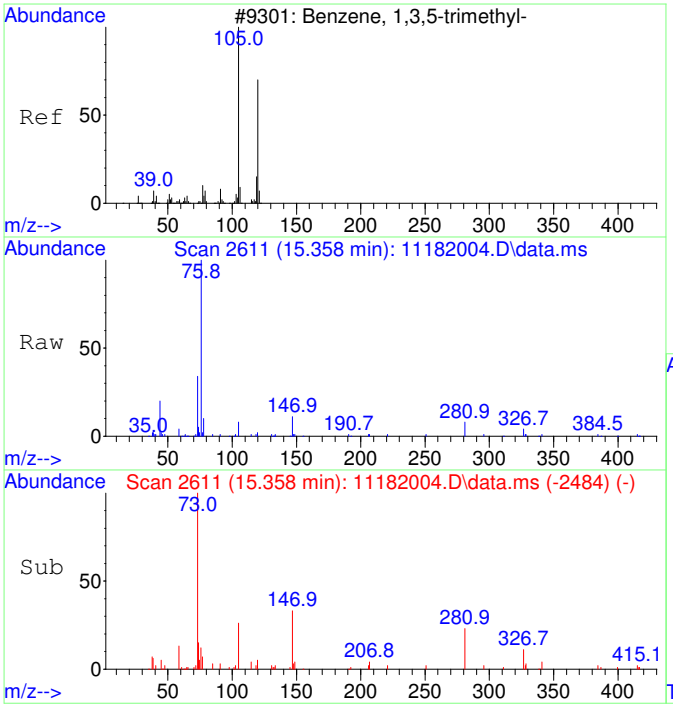


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 52.64 ug/L
RT: 14.883 min Scan# 2495
Delta R.T. 0.011 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion: 83 Resp: 1904

Ion	Ratio	Lower	Upper
83	100		
85	9.0	35.9	95.9#
95	9.7	0.0	47.4

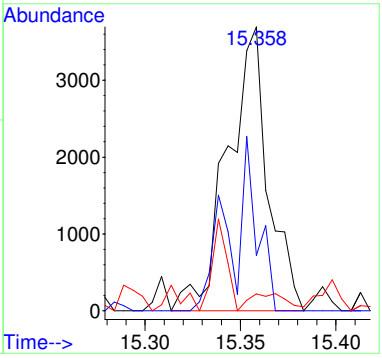


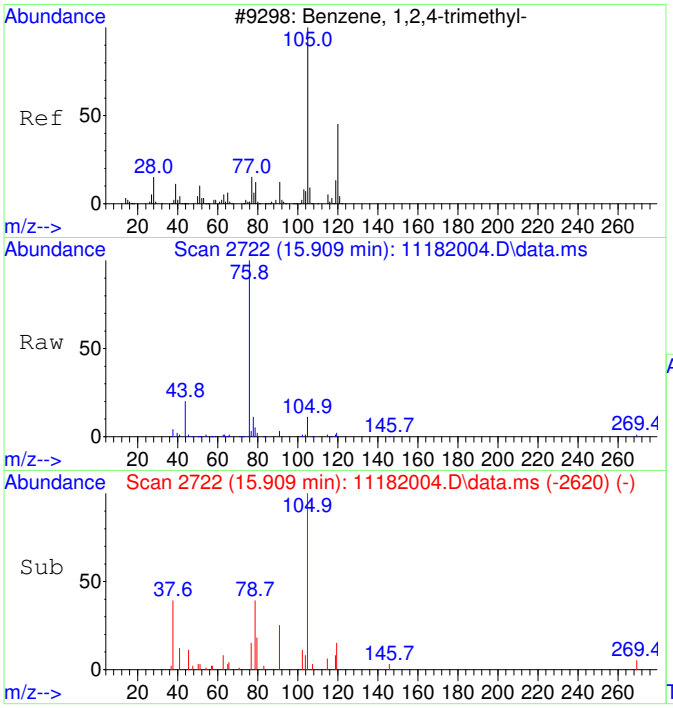


#46
1,3,5-Trimethylbenzene SCAN
Concen: 69.51 ug/L
RT: 15.358 min Scan# 2611
Delta R.T. 0.015 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 5434

Ion	Ratio	Lower	Upper
105	100		
120	20.1	18.3	78.3
119	1.9	0.0	43.1

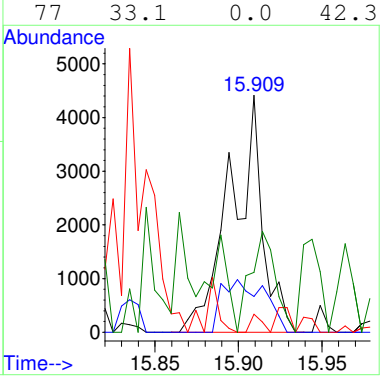


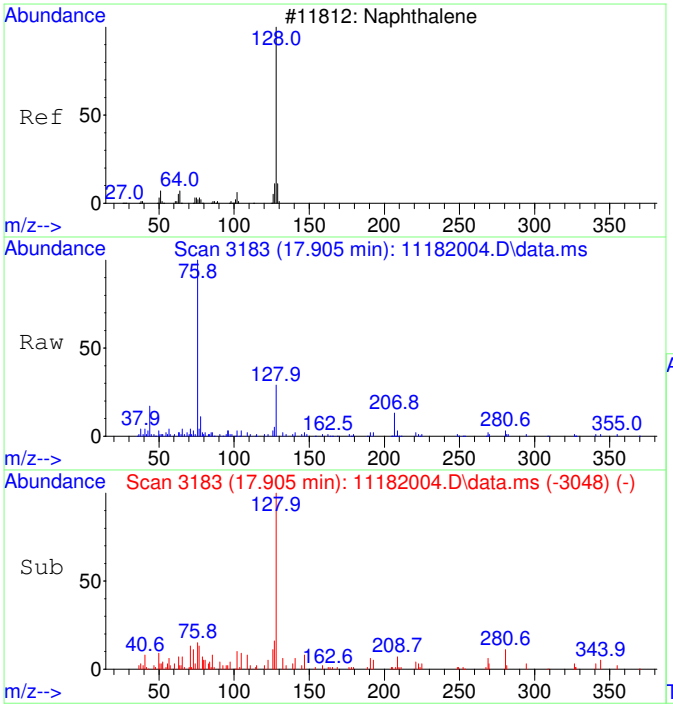


#47
1,2,4-Trimethylbenzene SCAN
Concen: 73.65 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.005 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:105 Resp: 5891

Ion	Ratio	Lower	Upper
105	100		
120	29.7	16.9	76.9
119	2.7	0.0	41.9
77	33.1	0.0	42.3

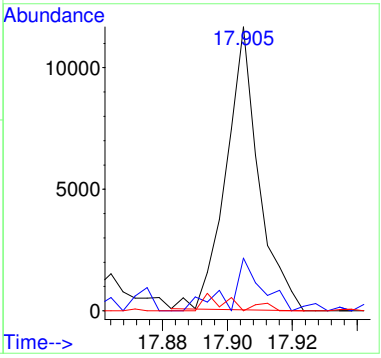




#48
Naphthalene SCAN
Concen: 66.84 ug/L
RT: 17.905 min Scan# 3183
Delta R.T. -0.000 min
Lab File: 11182004.D
Acq: 18 Nov 2020 10:49

Tgt Ion:128 Resp: 8090

Ion	Ratio	Lower	Upper
128	100		
127	19.9	0.0	44.0
129	5.5	0.0	40.8



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 20316C
Client: California Site Cleanup Section 3
Project: MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID: AG5975CV
Calibration: 2008017
Sequence: S20K085

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
B20K078-MRL1	1,1-Dichloroethene	0.131	0.190	146	ug/m³ Air	50 - 150
	trans-1,2-Dichloroethene	0.160	0.156	98	ug/m³ Air	50 - 150
	1,1-Dichloroethane	0.157	0.156	99	ug/m³ Air	50 - 150
	cis-1,2-Dichloroethene	0.160	0.152	95	ug/m³ Air	50 - 150
	Chloroform	0.132	0.128	97	ug/m³ Air	50 - 150
	Trichloroethene	0.144	0.141	98	ug/m³ Air	50 - 150
	Tetrachloroethene	0.168	0.161	96	ug/m³ Air	50 - 150
	Toluene-d8	992	870	88	ug/m³ Air	86 - 118

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192008.D
Acq On : 19 Nov 2020 11:08
InstName : AG5975C
Operator : TD
Sample : B20K078-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 23 08:14:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

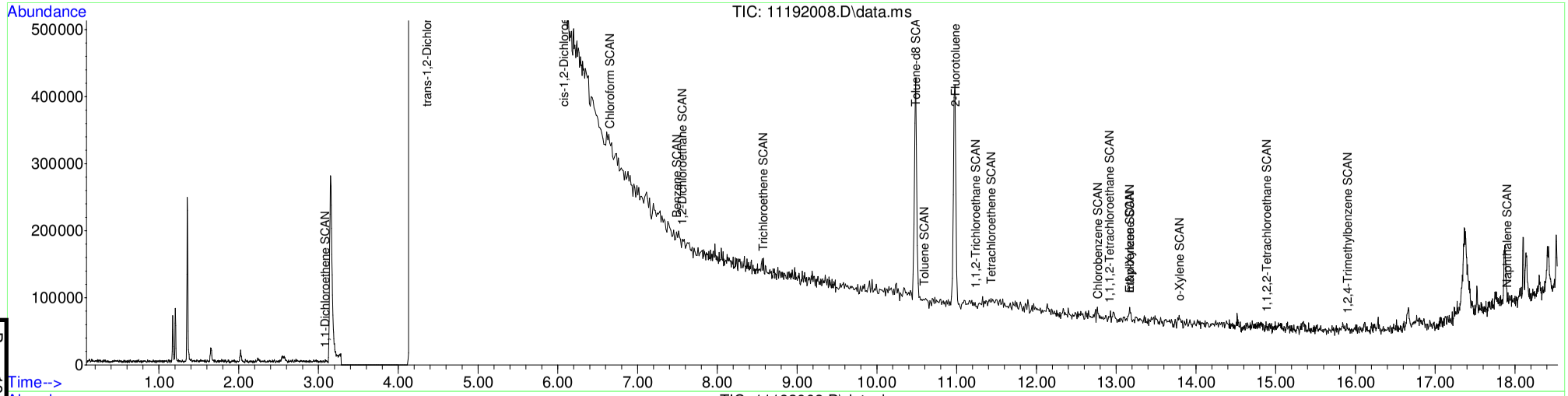
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	562715	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	482886	4383.60	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.67%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	1637	72.85	ug/L	80
3] trans-1,2-Dichloroethene	4.369	61	1268	48.84	ug/L	88
4] 1,1-Dichloroethane	5.086	63	1603	49.60	ug/L	57
5] cis-1,2-Dichloroethene	6.088	61	1620	47.49	ug/L	92
6] Chloroform	6.652	83	1685	48.26	ug/L	97
7] 1,1,1-Trichloroethane	6.919	97	1806	47.63	ug/L	96
8] Carbon tetrachloride	7.187	117	1637	45.87	ug/L	96
9] Benzene	7.503	78	9579	100.19	ug/L	63
10] 1,2-Dichloroethane	7.552	62	1624	47.58	ug/L #	1
11] Trichloroethene	8.575	130	1413	49.09	ug/L	92
13] Toluene	10.582	91	7073	50.36	ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	1394	45.55	ug/L	69
15] Tetrachloroethene	11.432	166	1946	47.88	ug/L	98
16] Chlorobenzene	12.765	112	4753	47.26	ug/L	87
17] 1,1,1,2-Tetrachloroethane	12.916	131	1733	48.09	ug/L	99
18] Ethylbenzene	12.972	91	9152	53.54	ug/L	95
19] m&p-Xylene	13.162	91	14256	106.70	ug/L	95
20] o-Xylene	13.782	91	6661	46.67	ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.877	83	2870	45.37	ug/L	99
22] 1,3,5-Trimethylbenzene	15.350	105	7866	51.77	ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	8670	54.94	ug/L	91
25) 2-Fluorotoluene SCAN	10.979	109	269247	4908.40	ug/L	100
26) 1,1-Dichloroethene SCAN	3.077	61	238	20.43	ug/L #	46
27) trans-1,2-Dichloroethe...	4.355	61	713	49.46	ug/L #	48
29) cis-1,2-Dichloroethene...	6.073	61	563	31.50	ug/L #	1
30) Chloroform SCAN	6.650	83	955	49.26	ug/L #	56
33) Benzene SCAN	7.490	78	21061	432.96	ug/L	94
34) 1,2-Dichloroethane SCAN	7.563	62	562	31.29	ug/L #	1
35) Trichloroethene SCAN	8.574	130	655	49.00	ug/L #	67
36) Toluene-d8 SCAN	10.486	98	229459	4277.29	ug/L	98
37) Toluene SCAN	10.591	91	2558	37.23	ug/L #	48
38) 1,1,2-Trichloroethane ...	11.231	97	1208	78.34	ug/L #	49
39) Tetrachloroethene SCAN	11.430	166	1292	78.28	ug/L #	57
40) Chlorobenzene SCAN	12.772	112	3014	64.20	ug/L #	73
41) 1,1,1,2-Tetrachloroeth...	12.915	131	1039	59.80	ug/L #	57
42) Ethylbenzene SCAN	13.169	91	10481	83.74	ug/L	78
43) m&p-Xylene SCAN	13.169	91	10481	83.74	ug/L	83
44) o-Xylene SCAN	13.789	91	4079	60.88	ug/L #	80
45) 1,1,2,2-Tetrachloroeth...	14.887	83	2141	65.54	ug/L #	37
47) 1,2,4-Trimethylbenzene...	15.904	105	4021	55.66	ug/L #	59
48) Naphthalene SCAN	17.901	128	2332	21.33	ug/L	50

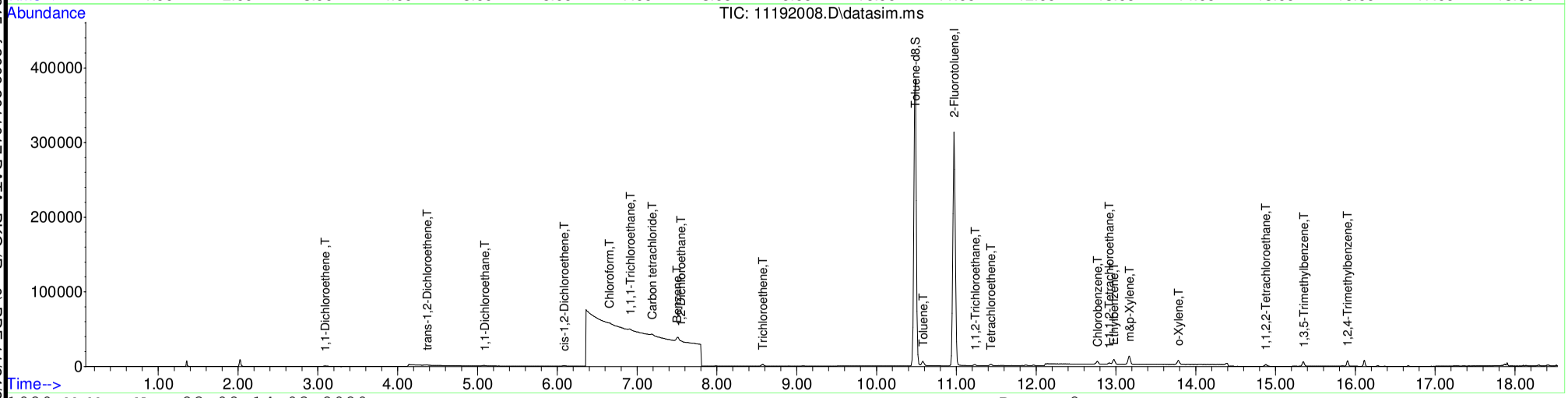
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192008.D
Acq On : 19 Nov 2020 11:08
InstName : AG5975C
Operator : TD
Sample : B20K078-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 23 08:14:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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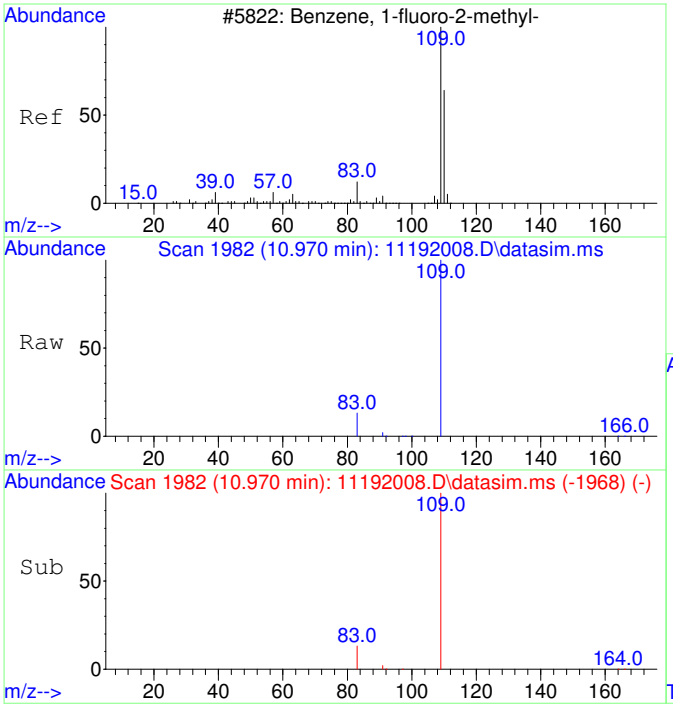
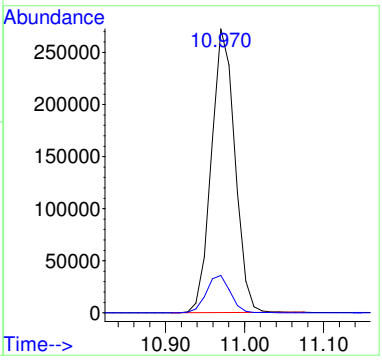
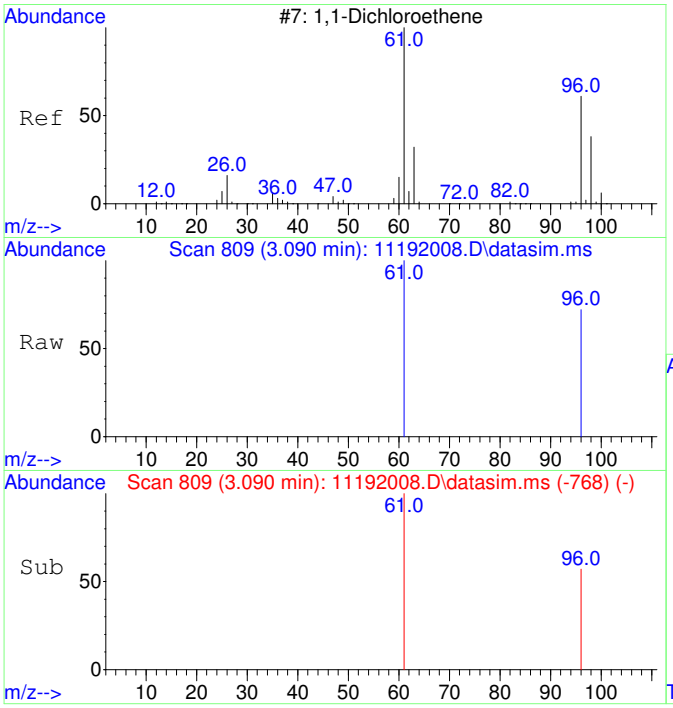


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:109 Resp: 562715

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

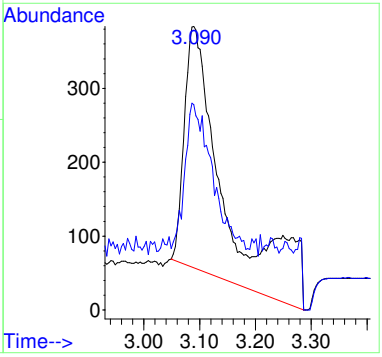




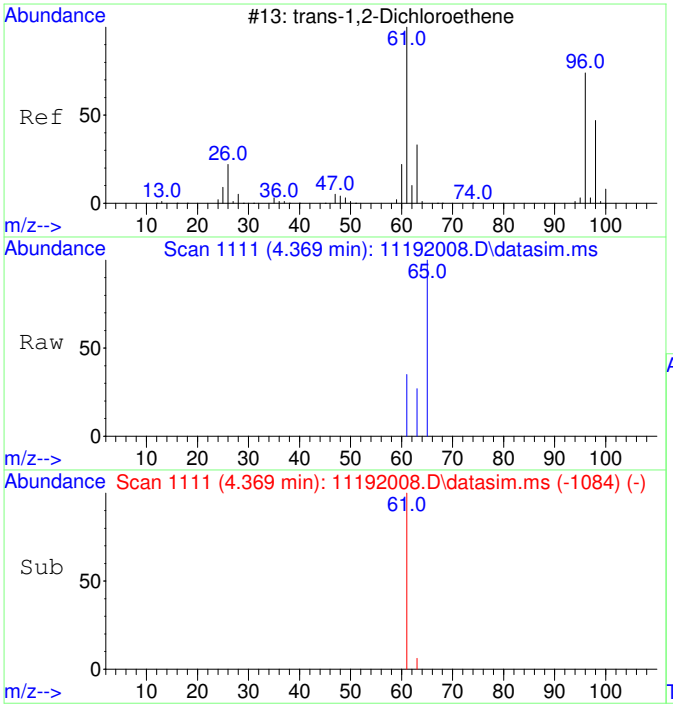
#2
1,1-Dichloroethene
Concen: 72.85 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 1637

Ion	Ratio	Lower	Upper
61	100		
96	51.1	37.2	97.2



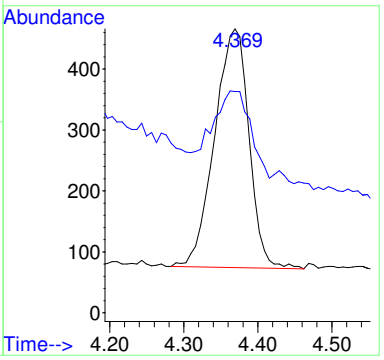
Before MI:
IMPROPER
BASELINE

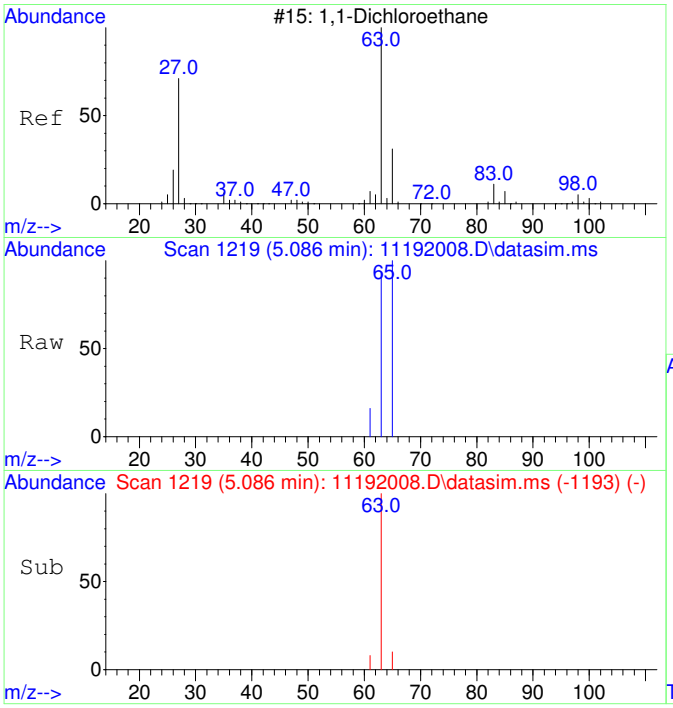


#3
trans-1,2-Dichloroethene
Concen: 48.84 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. 0.026 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 1268

Ion	Ratio	Lower	Upper
61	100		
63	39.3	2.4	62.4

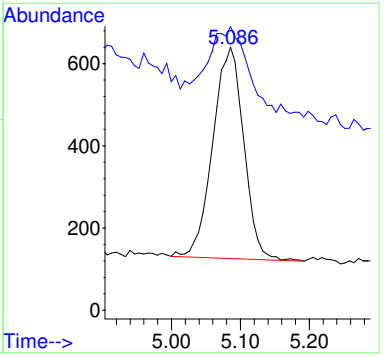


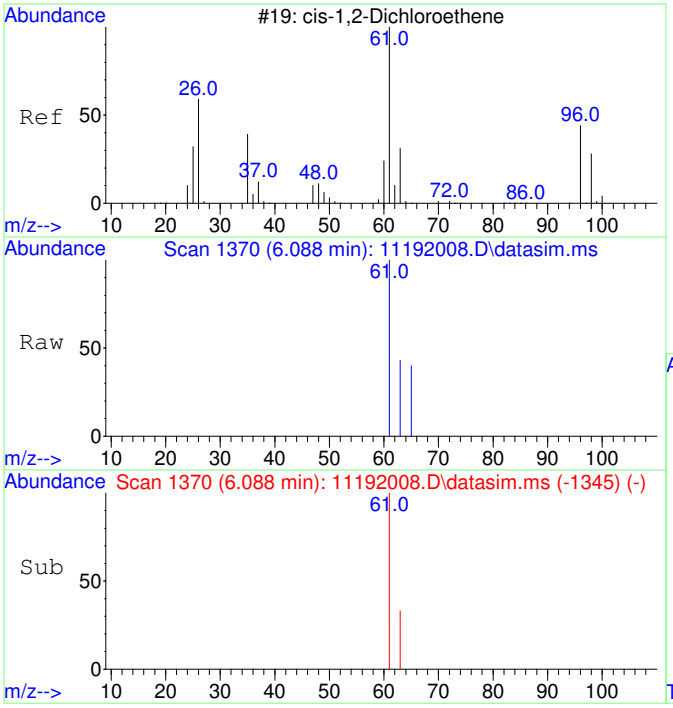


#4
1,1-Dichloroethane
Concen: 49.60 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 63 Resp: 1603

Ion	Ratio	Lower	Upper
63	100		
65	55.8	1.8	61.8

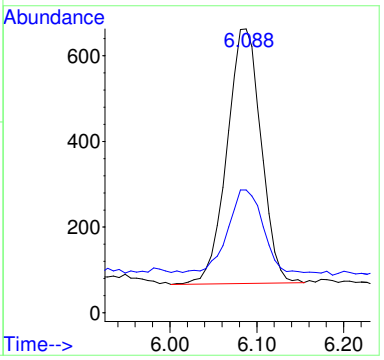


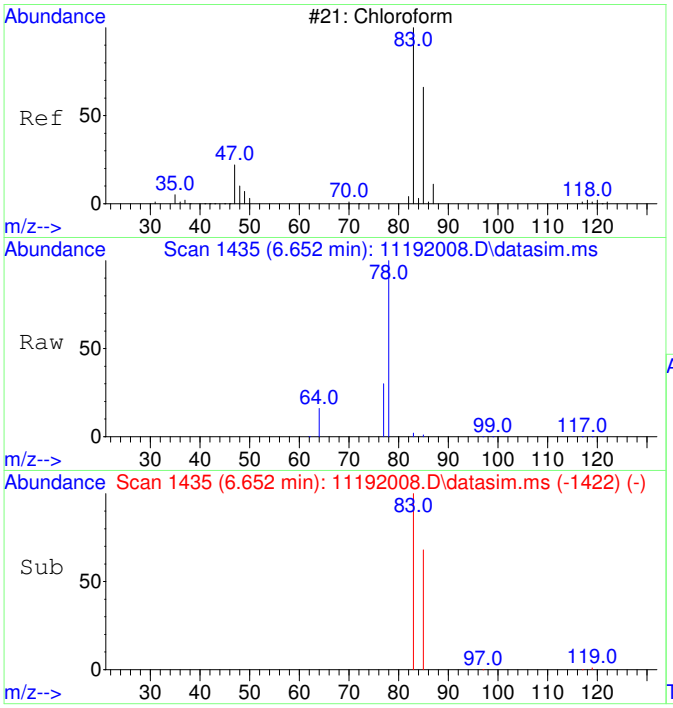


#5
cis-1,2-Dichloroethene
Concen: 47.49 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 1620

Ion	Ratio	Lower	Upper
61	100		
63	37.2	2.5	62.5

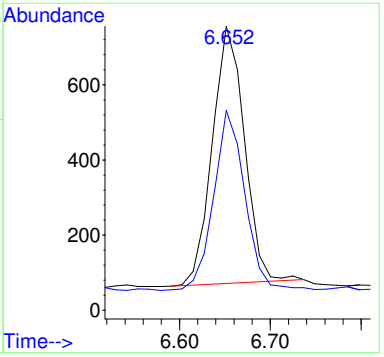


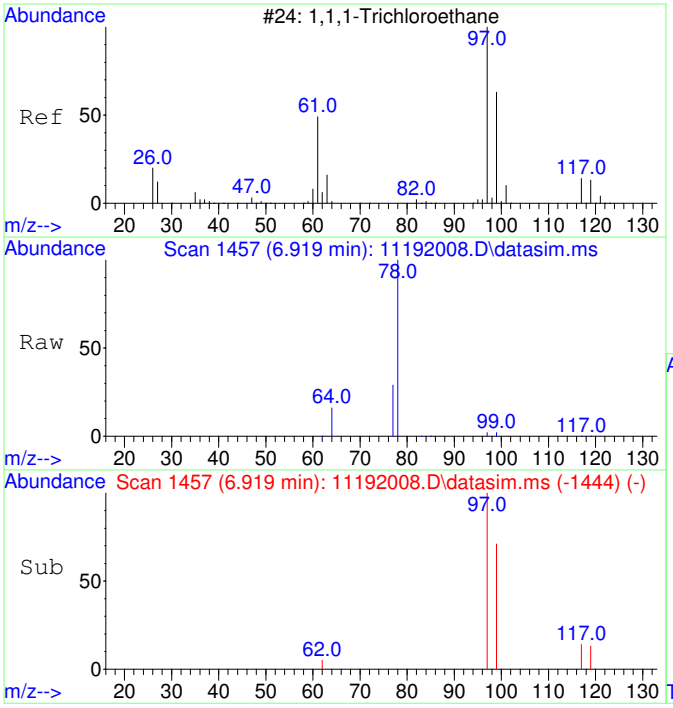


#6
Chloroform
Concen: 48.26 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 1685

Ion	Ratio	Lower	Upper
83	100		
85	67.7	35.1	95.1

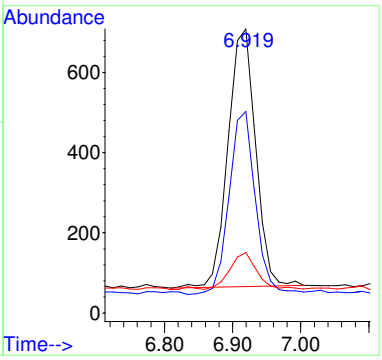


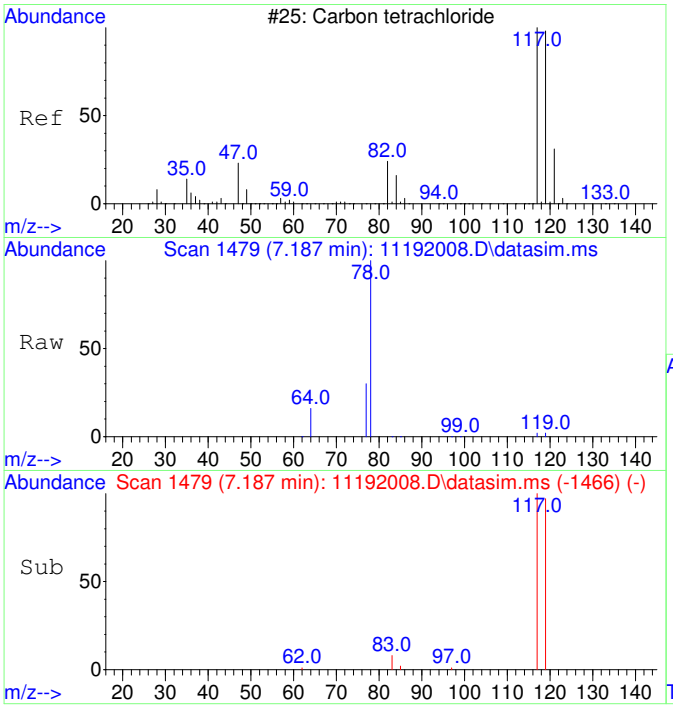


#7
1,1,1-Trichloroethane
Concen: 47.63 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 97 Resp: 1806

Ion	Ratio	Lower	Upper
97	100		
99	67.8	34.6	94.6
117	13.9	0.0	43.2

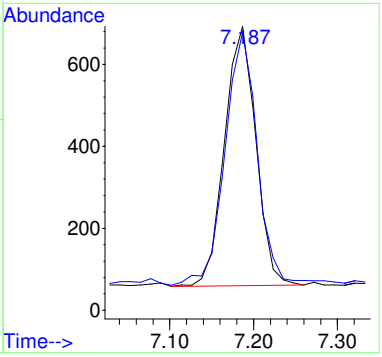


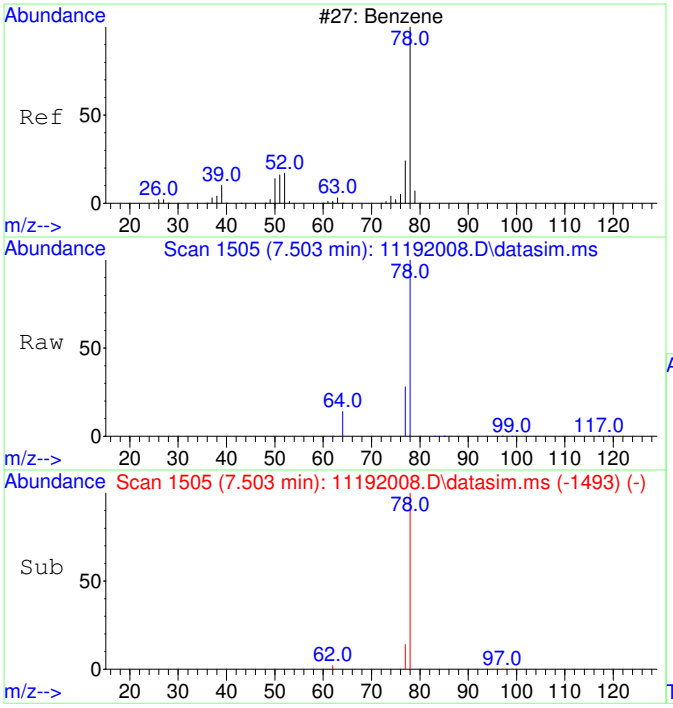


#8
Carbon tetrachloride
Concen: 45.87 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:117 Resp: 1637

Ion	Ratio	Lower	Upper
117	100		
119	100.7	66.4	126.4

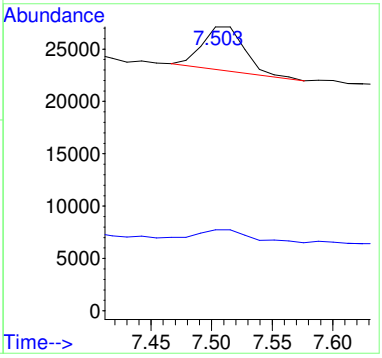


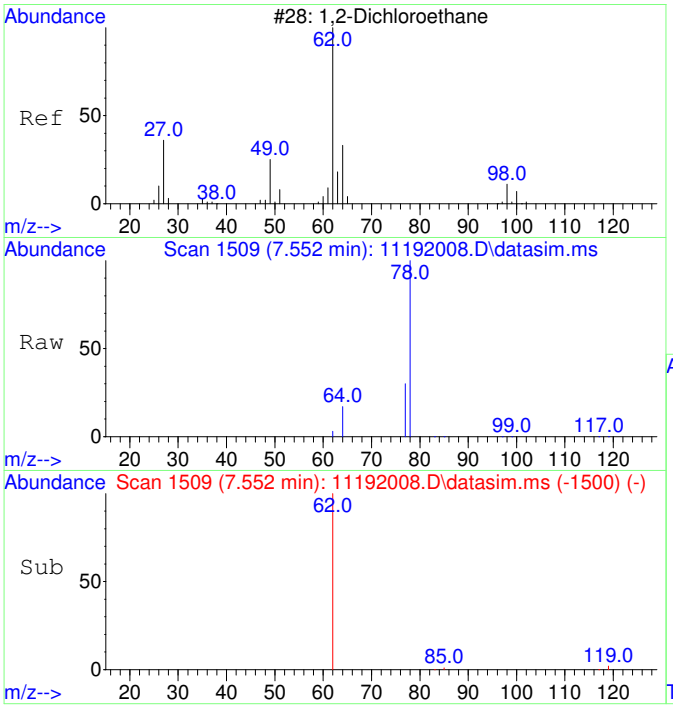


#9
Benzene
Concen: 100.19 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 78 Resp: 9579

Ion	Ratio	Lower	Upper
78	100		
77	41.1	0.0	53.2

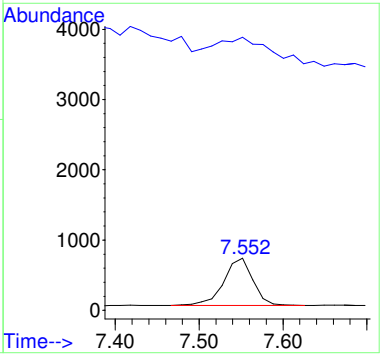


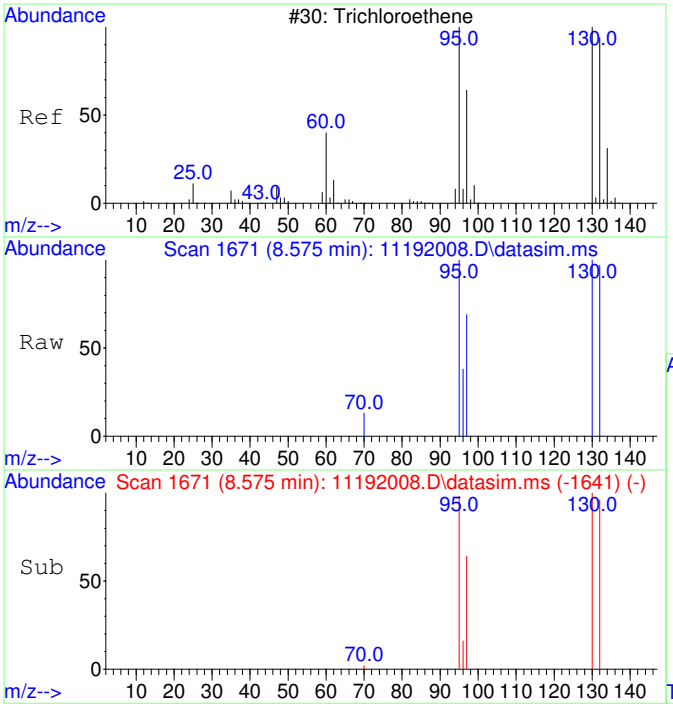


#10
1,2-Dichloroethane
Concen: 47.58 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 62 Resp: 1624

Ion	Ratio	Lower	Upper
62	100		
64	99.0	2.3	62.3#

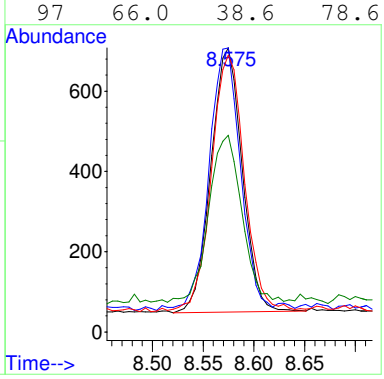


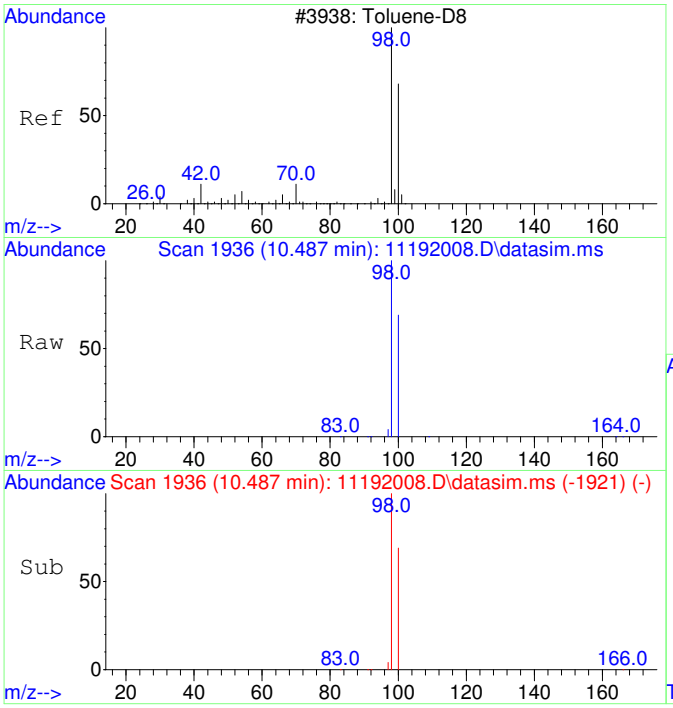


#11
Trichloroethene
Concen: 49.09 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:130 Resp: 1413

Ion	Ratio	Lower	Upper
130	100		
95	100.0	60.7	120.7
132	101.0	76.0	116.0
97	66.0	38.6	78.6

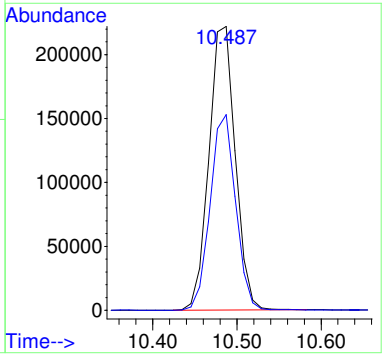


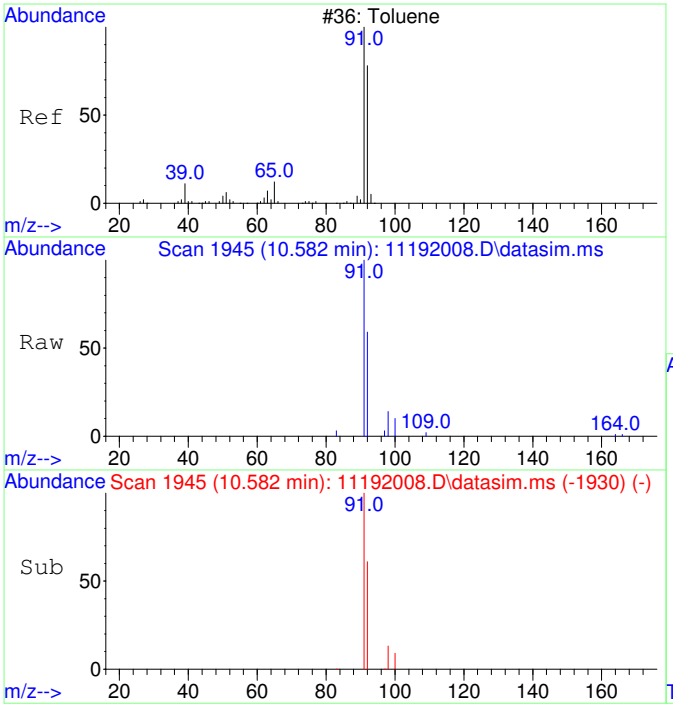


#12
Toluene-d8
Concen: 4383.60 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 98 Resp: 482886

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

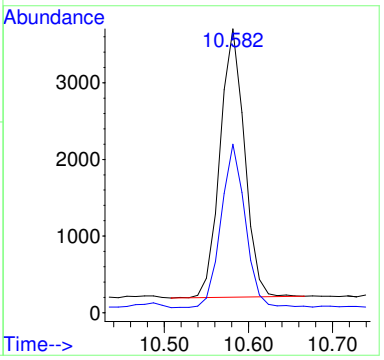


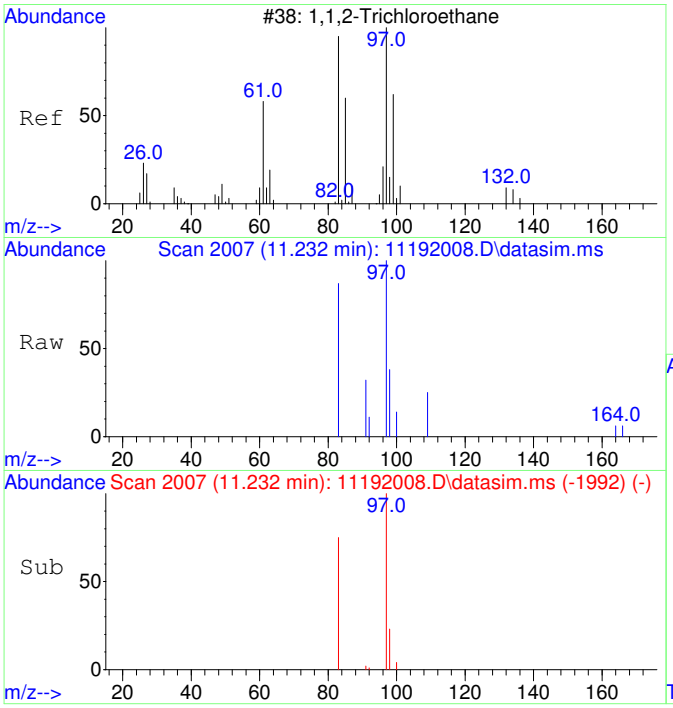


#13
Toluene
Concen: 50.36 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 7073

Ion	Ratio	Lower	Upper
91	100		
92	59.7	29.9	89.9

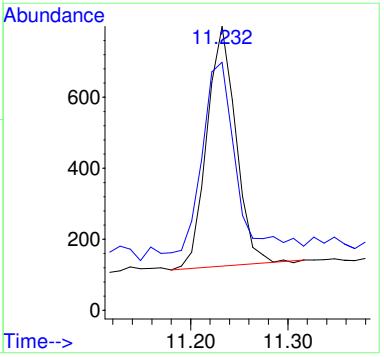


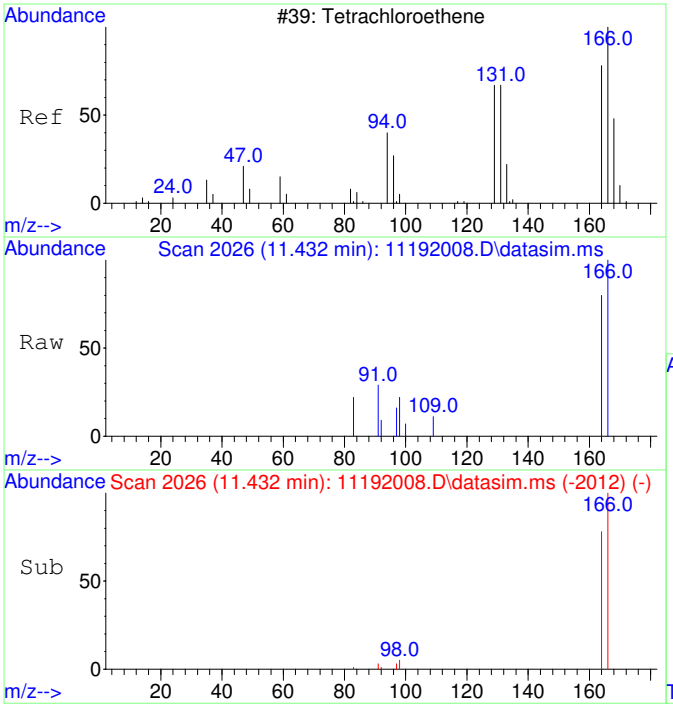


#14
1,1,2-Trichloroethane
Concen: 45.55 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 97 Resp: 1394

Ion	Ratio	Lower	Upper
97	100		
83	109.0	51.2	111.2

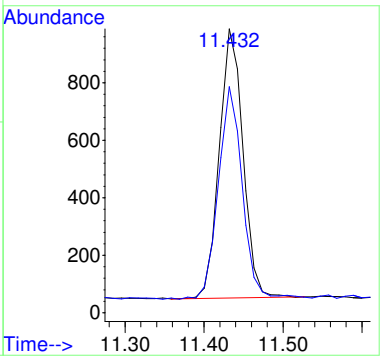


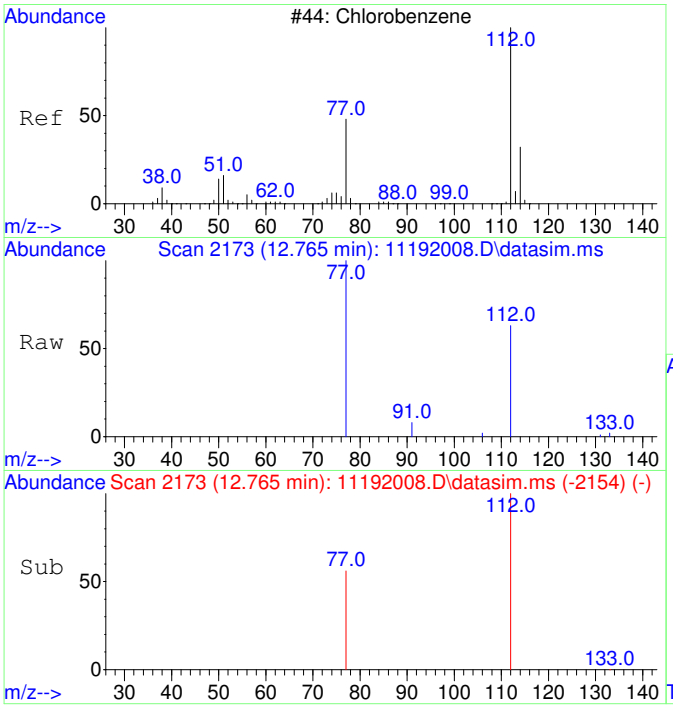


#15
Tetrachloroethene
Concen: 47.88 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:166 Resp: 1946

Ion	Ratio	Lower	Upper
166	100		
164	79.4	47.8	107.8

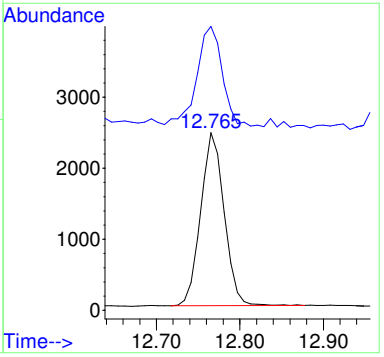


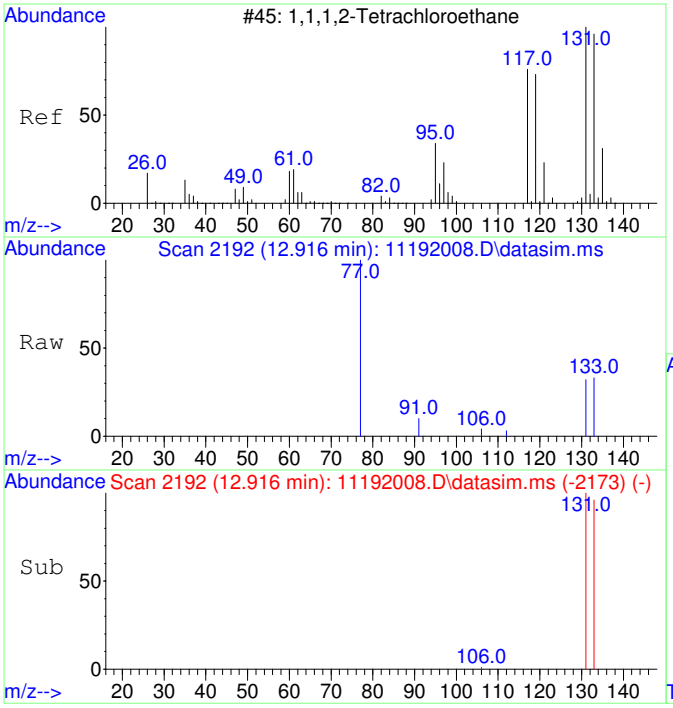


#16
Chlorobenzene
Concen: 47.26 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:112 Resp: 4753

Ion	Ratio	Lower	Upper
112	100		
77	62.8	23.6	83.6

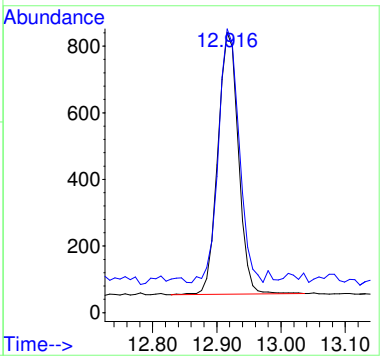


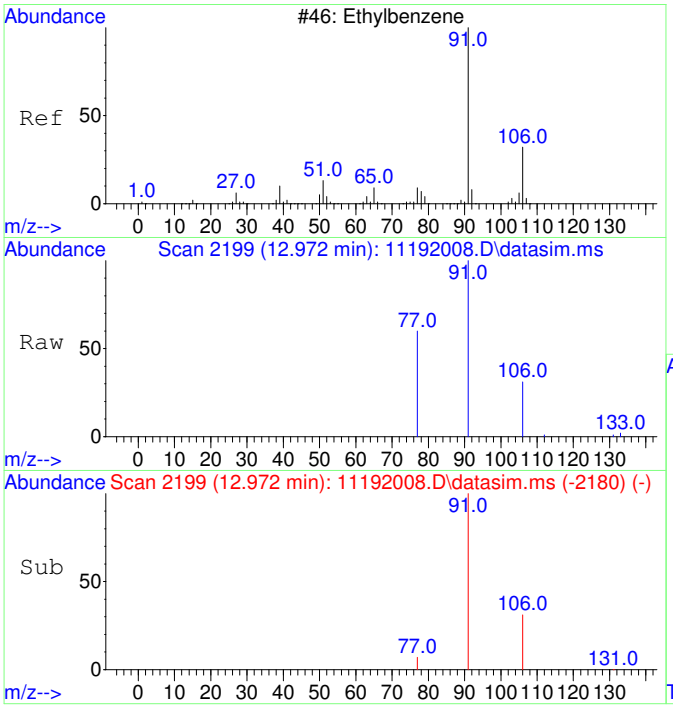


#17
1,1,1,2-Tetrachloroethane
Concen: 48.09 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:131 Resp: 1733

Ion	Ratio	Lower	Upper
131	100		
133	97.6	66.3	126.3

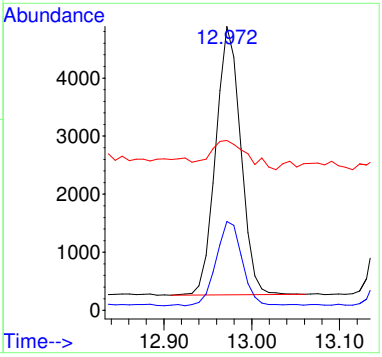


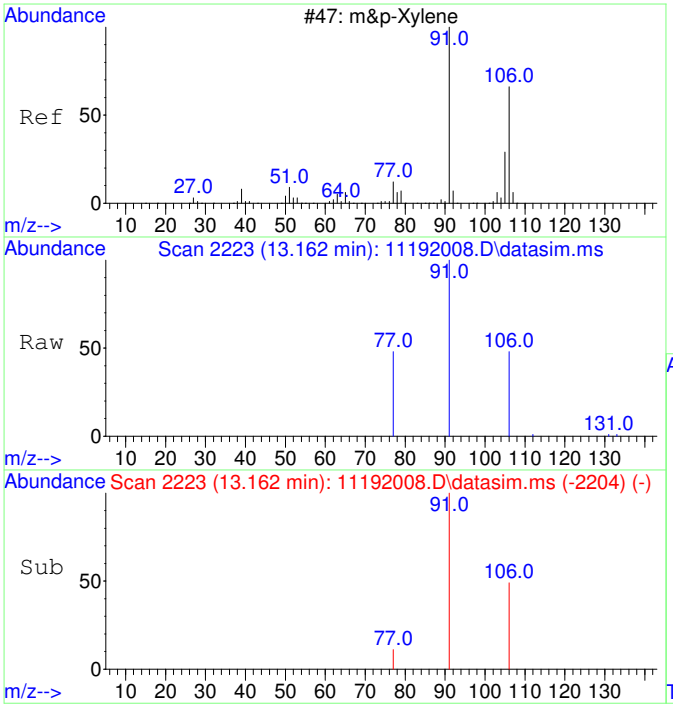


#18
Ethylbenzene
Concen: 53.54 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 9152

Ion	Ratio	Lower	Upper
91	100		
106	32.7	3.0	63.0
77	15.9	0.0	38.2

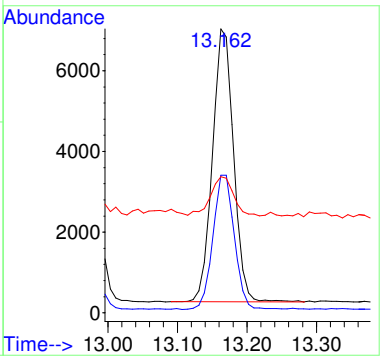


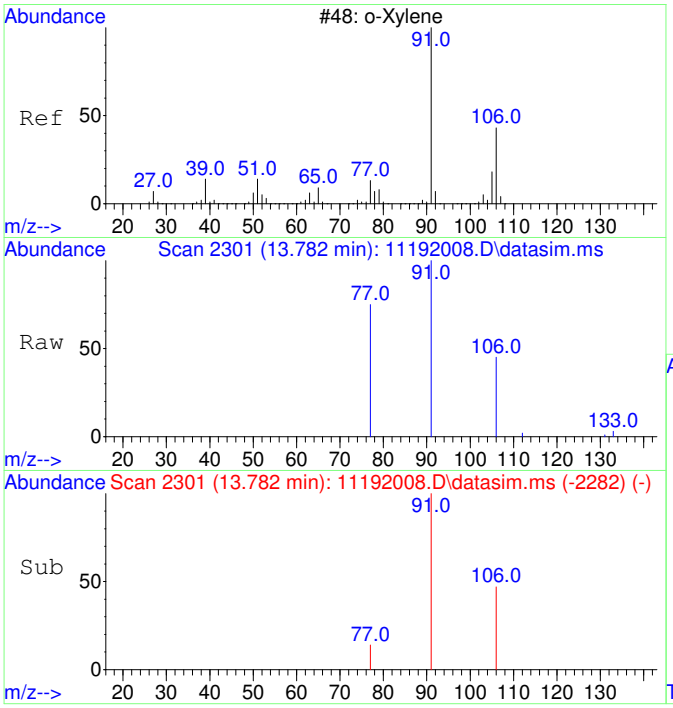


#19
m&p-Xylene
Concen: 106.70 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 14256

Ion	Ratio	Lower	Upper
91	100		
106	49.5	22.2	82.2
77	15.6	0.0	42.4

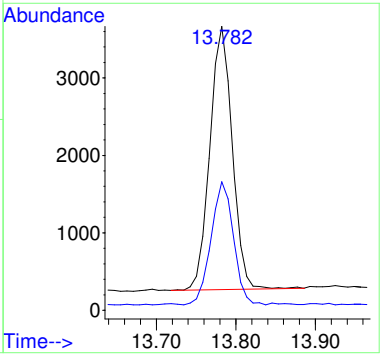


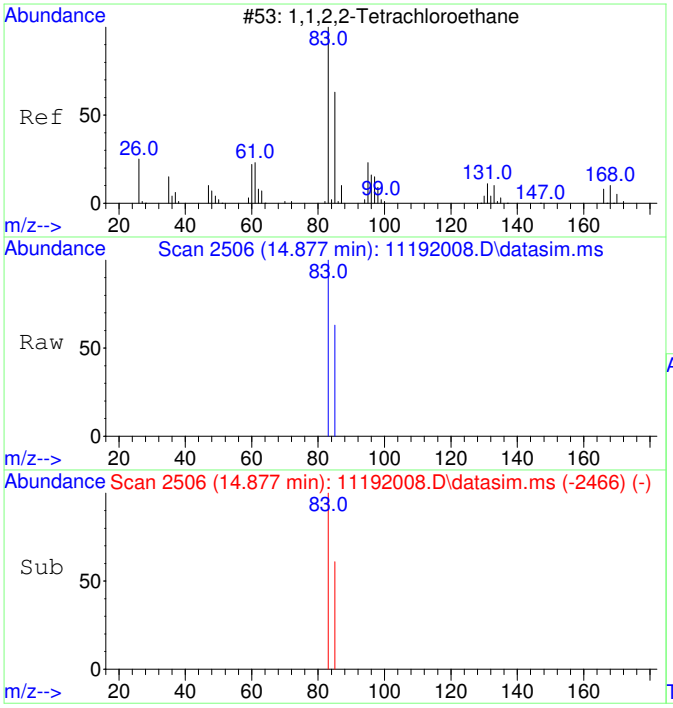


#20
o-Xylene
Concen: 46.67 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 6661

Ion	Ratio	Lower	Upper
91	100		
106	46.6	19.2	79.2

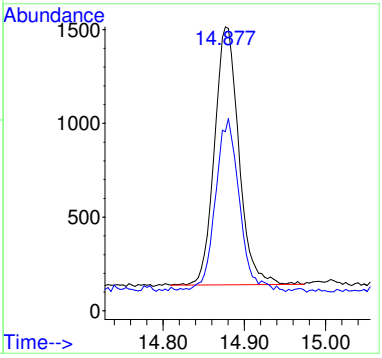


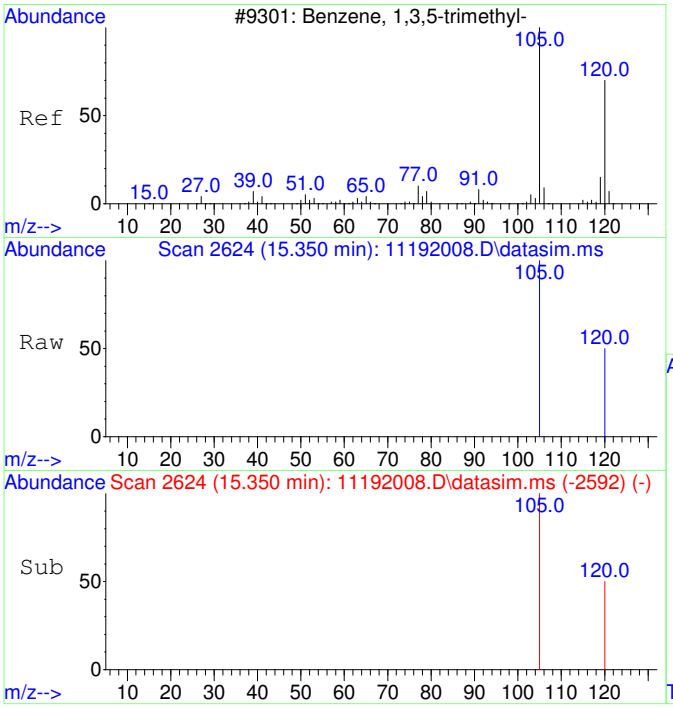


#21
1,1,2,2-Tetrachloroethane
Concen: 45.37 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 2870

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.8	94.8

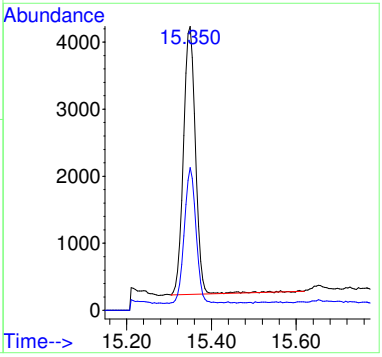


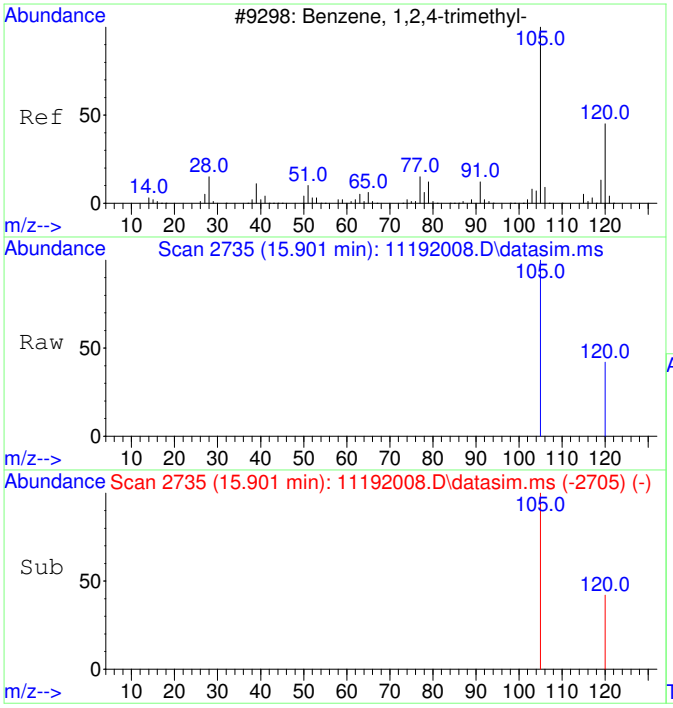


#22
1,3,5-Trimethylbenzene
Concen: 51.77 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:105 Resp: 7866

Ion	Ratio	Lower	Upper
105	100		
120	48.3	21.1	81.1

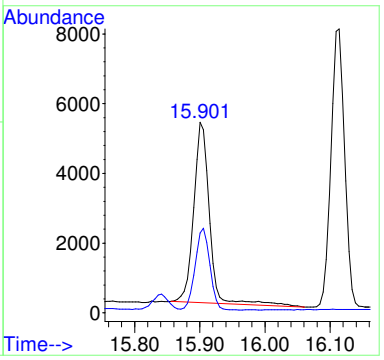


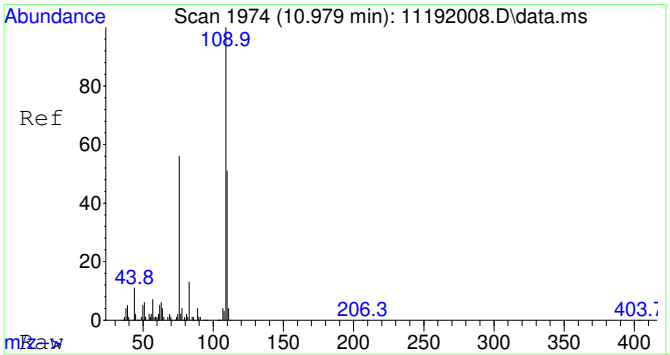


#23
1,2,4-Trimethylbenzene
Concen: 54.94 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:105 Resp: 8670

Ion	Ratio	Lower	Upper
105	100		
120	41.4	17.2	77.2

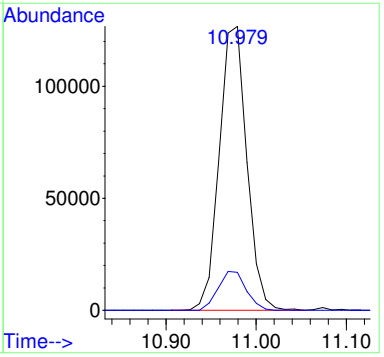


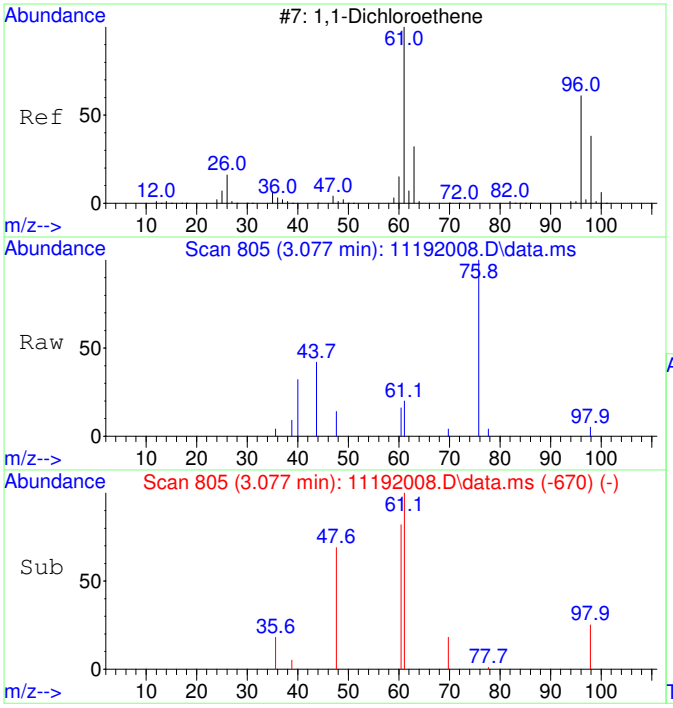


#25
2-Fluorotoluene SCAN
Concen: 4908.40 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:109 Resp: 269247

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	43.8

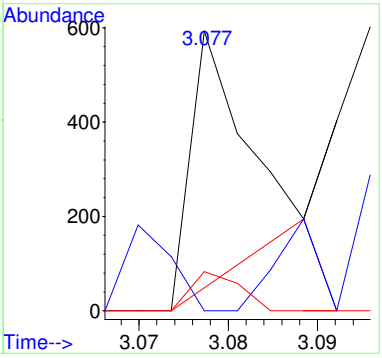


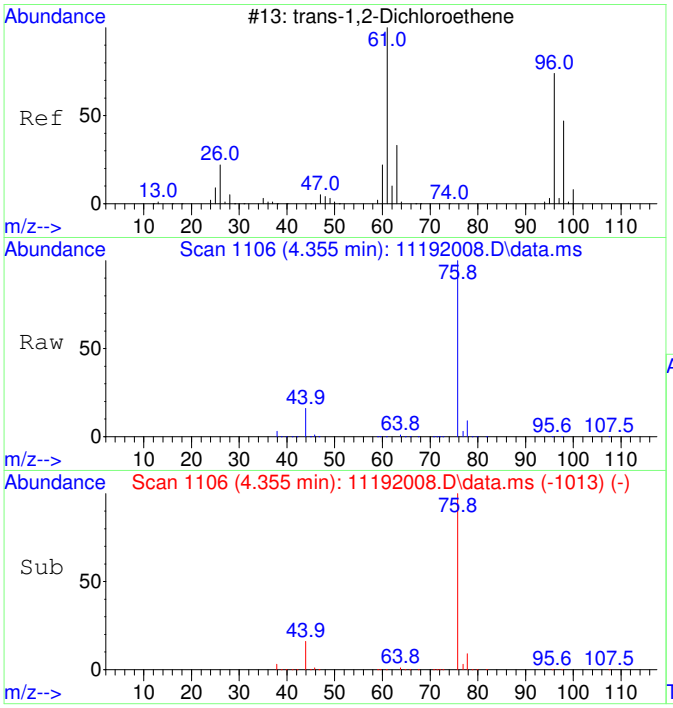


#26
1,1-Dichloroethene SCAN
Concen: 20.43 ug/L
RT: 3.077 min Scan# 805
Delta R.T. 0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 238

Ion	Ratio	Lower	Upper
61	100		
96	27.7	33.1	93.1#
98	0.0	11.2	71.2#

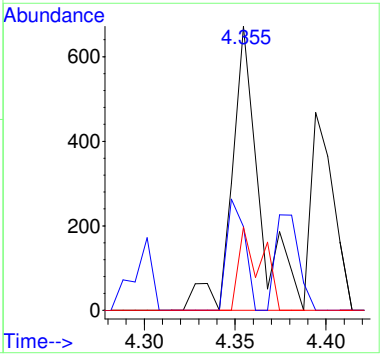


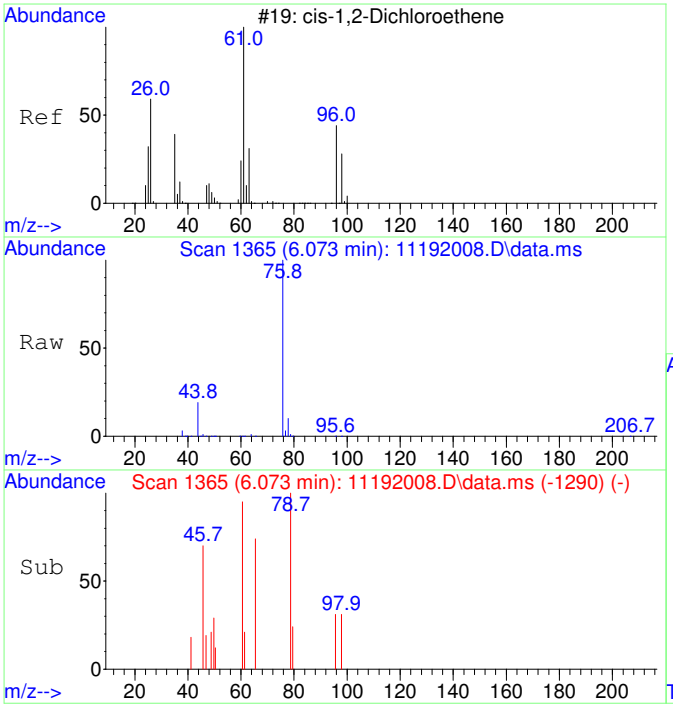


#27
trans-1,2-Dichloroethene SCAN
Concen: 49.46 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. 0.007 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 713

Ion	Ratio	Lower	Upper
61	100		
96	25.8	49.0	109.0#
98	24.4	20.5	80.5

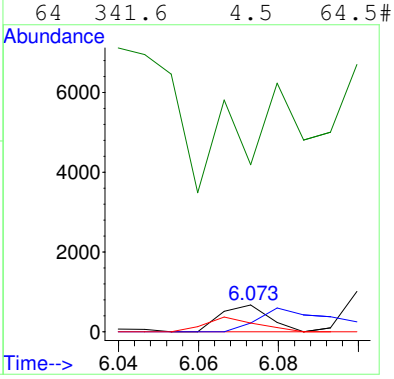


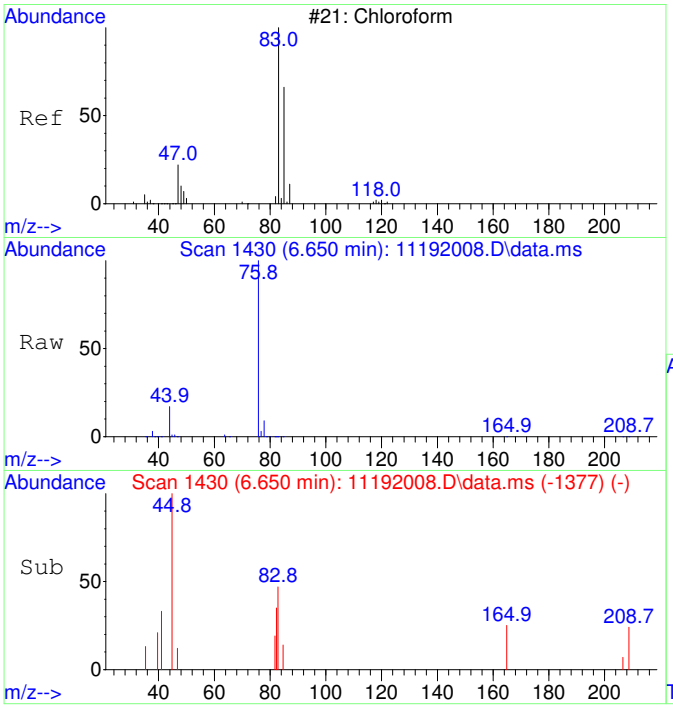


#29
cis-1,2-Dichloroethene SCAN
Concen: 31.50 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 563

Ion	Ratio	Lower	Upper
61	100		
96	140.5	39.9	99.9#
98	58.8	13.5	73.5
64	341.6	4.5	64.5#

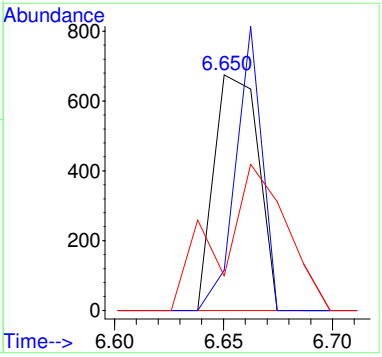


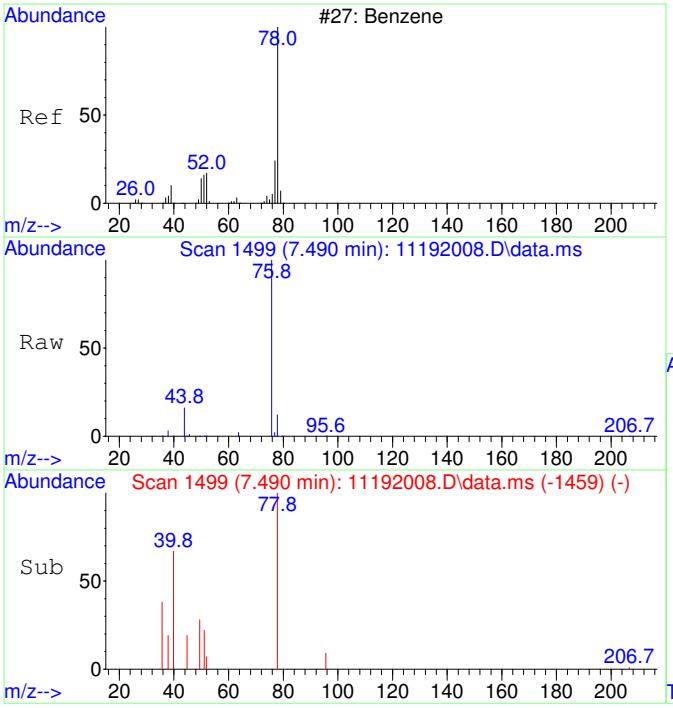


#30
Chloroform SCAN
Concen: 49.26 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 955

Ion	Ratio	Lower	Upper
83	100		
85	71.0	34.6	94.6
47	93.4	0.0	53.4#

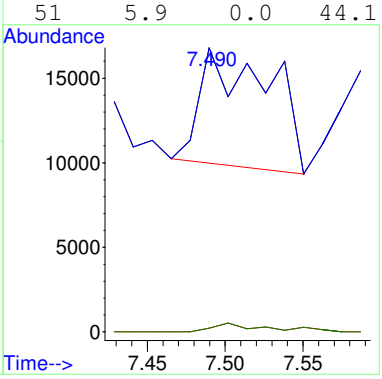


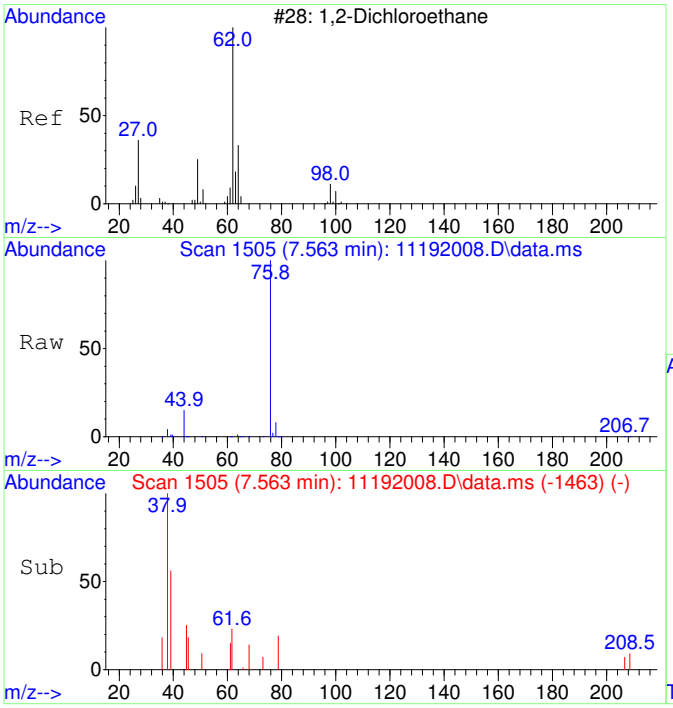


#33
Benzene SCAN
Concen: 432.96 ug/L
RT: 7.490 min Scan# 1499
Delta R.T. -0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 78 Resp: 21061

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	5.9	0.0	47.9
51	5.9	0.0	44.1

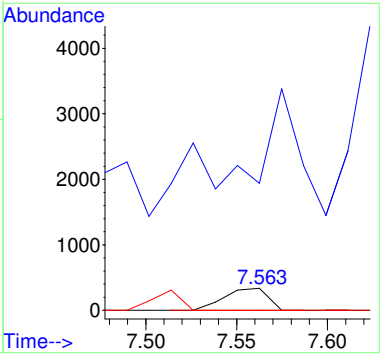


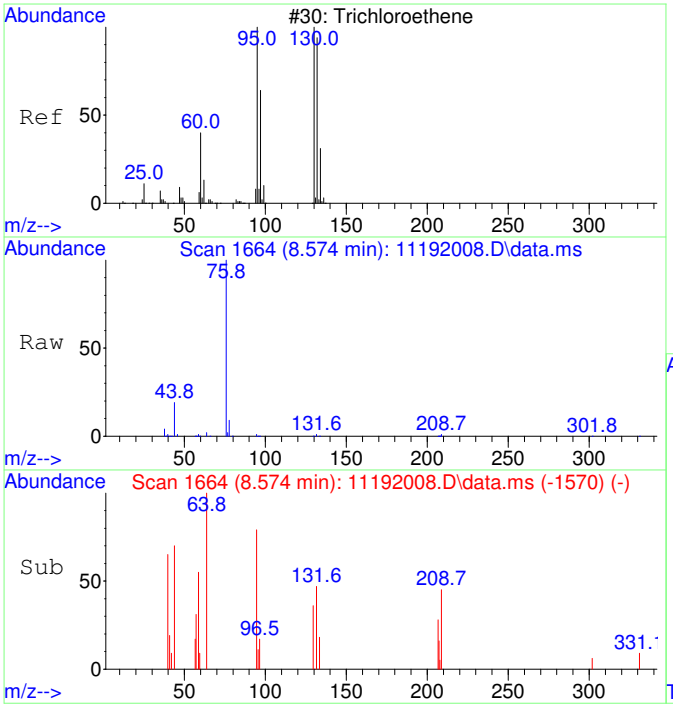


#34
1,2-Dichloroethane SCAN
Concen: 31.29 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 62 Resp: 562

Ion	Ratio	Lower	Upper
62	100		
64	253.7	5.2	65.2#
49	0.0	3.9	63.9#

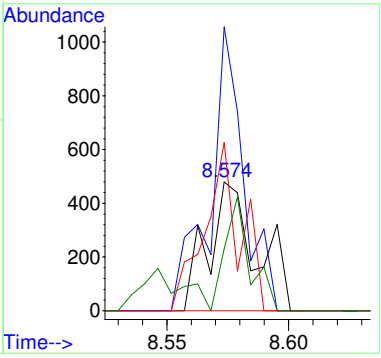


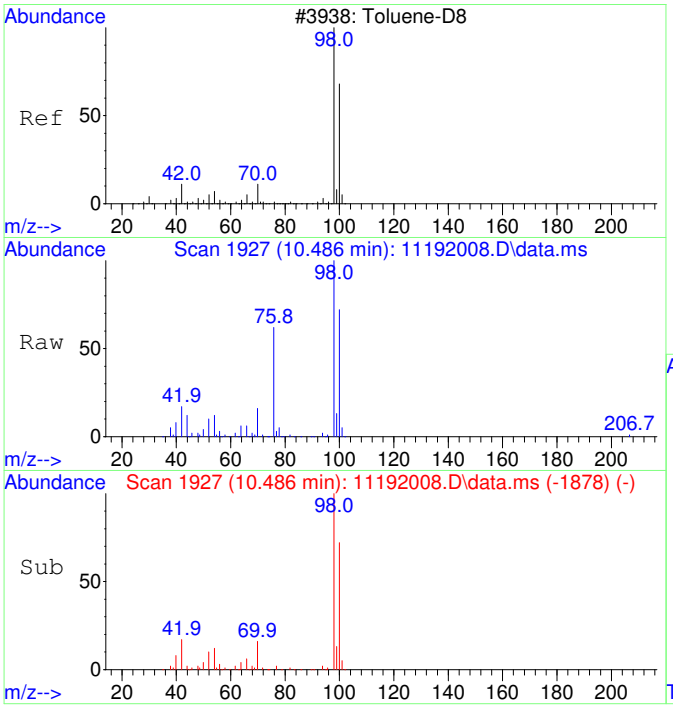


#35
Trichloroethene SCAN
Concen: 49.00 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:130 Resp: 655

Ion	Ratio	Lower	Upper
130	100		
95	154.4	60.5	120.5#
132	96.3	59.6	119.6
97	45.5	28.2	88.2

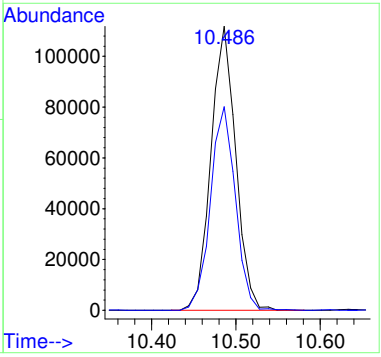


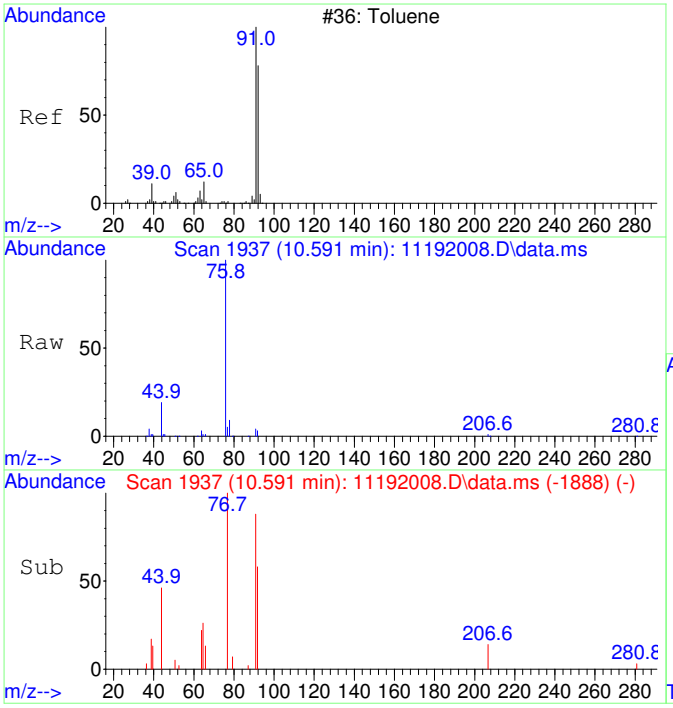


#36
Toluene-d8 SCAN
Concen: 4277.29 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 98 Resp: 229459

Ion	Ratio	Lower	Upper
98	100		
100	71.8	40.0	100.0

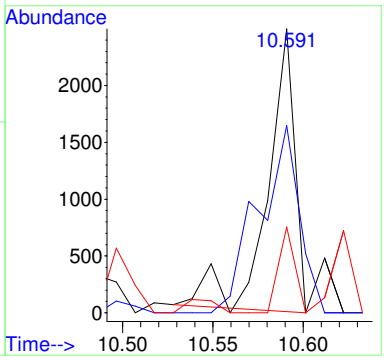


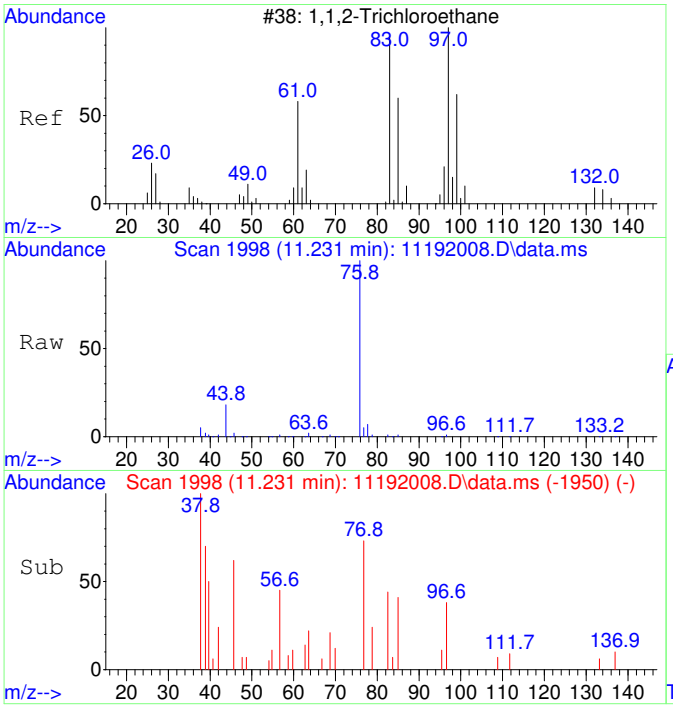


#37
Toluene SCAN
Concen: 37.23 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 2558

Ion	Ratio	Lower	Upper
91	100		
92	101.1	28.3	88.3#
65	18.6	0.0	41.0

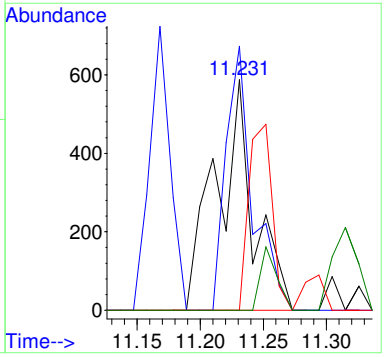


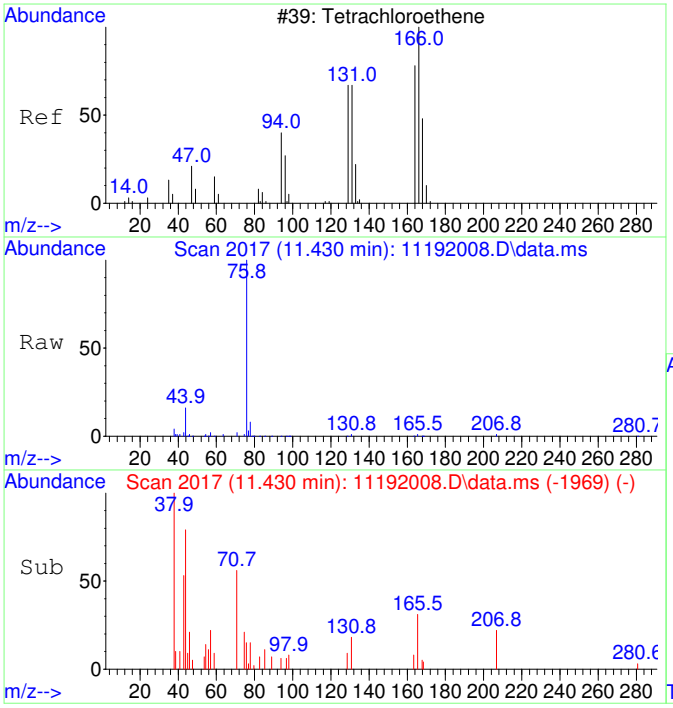


#38
1,1,2-Trichloroethane SCAN
Concen: 78.34 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 97 Resp: 1208

Ion	Ratio	Lower	Upper
97	100		
83	82.4	57.7	117.7
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

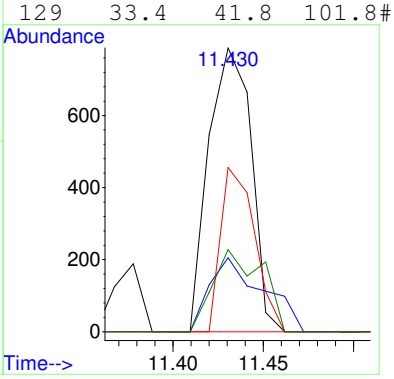


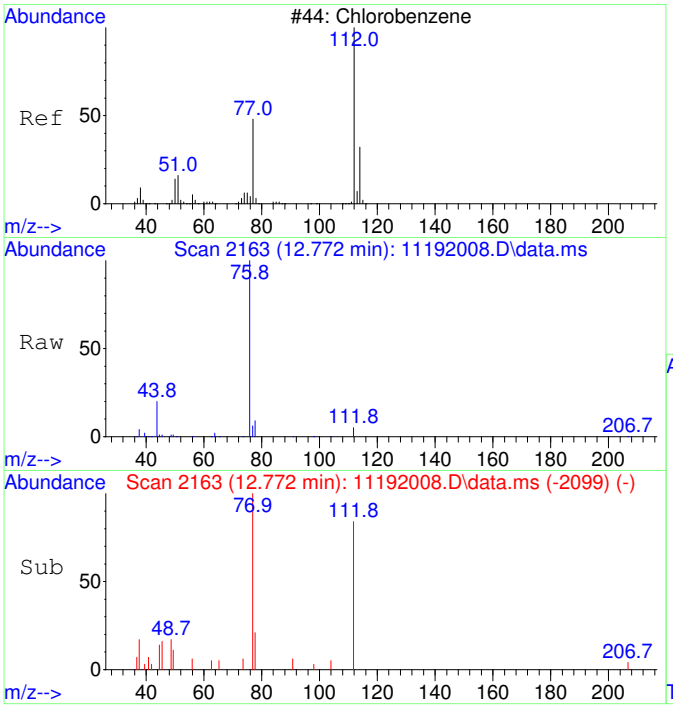


#39
Tetrachloroethene SCAN
Concen: 78.28 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:166 Resp: 1292

Ion	Ratio	Lower	Upper
166	100		
164	32.8	50.9	110.9#
131	46.4	38.7	98.7
129	33.4	41.8	101.8#

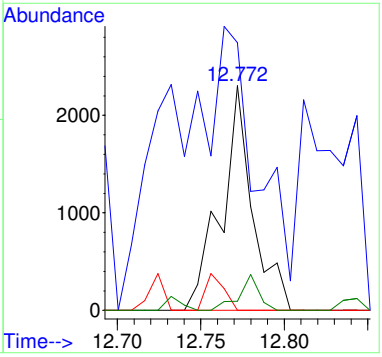


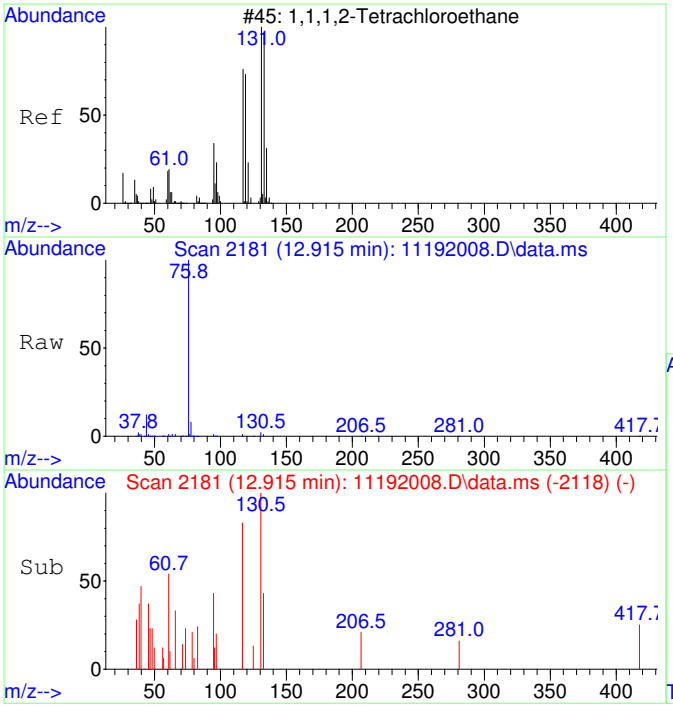


#40
Chlorobenzene SCAN
Concen: 64.20 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:112 Resp: 3014

Ion	Ratio	Lower	Upper
112	100		
77	66.7	28.2	88.2
114	0.0	2.3	62.3#
51	10.1	0.0	50.1

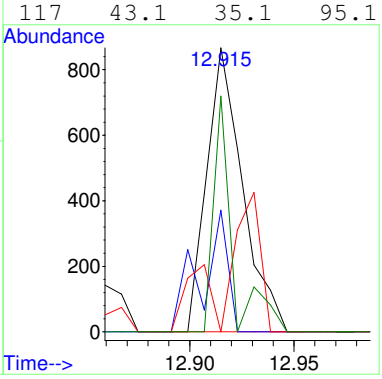


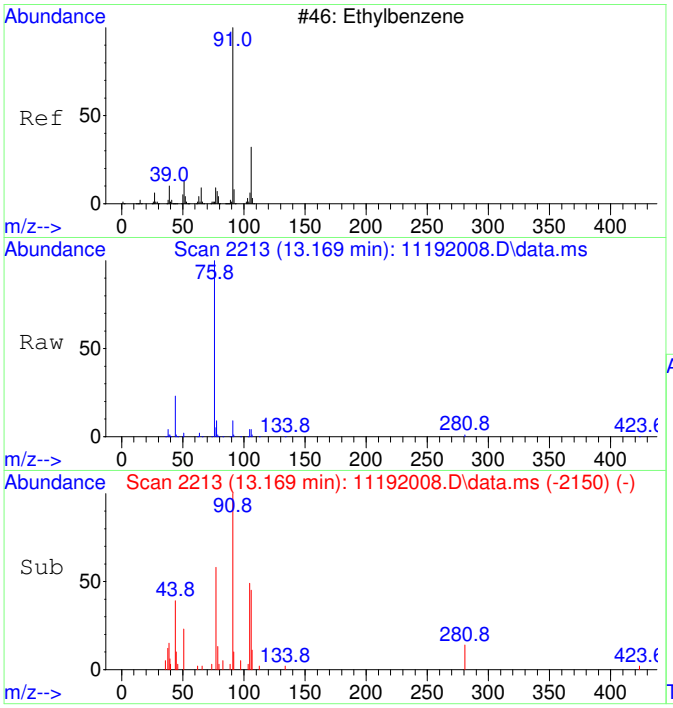


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 59.80 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:131 Resp: 1039

Ion	Ratio	Lower	Upper
131	100		
133	31.6	66.9	126.9#
119	50.7	40.4	100.4
117	43.1	35.1	95.1

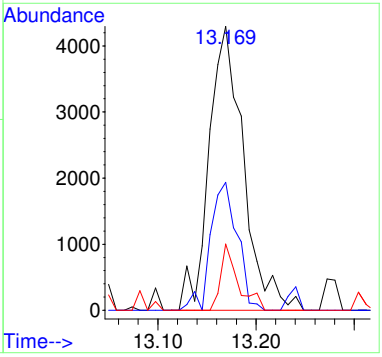


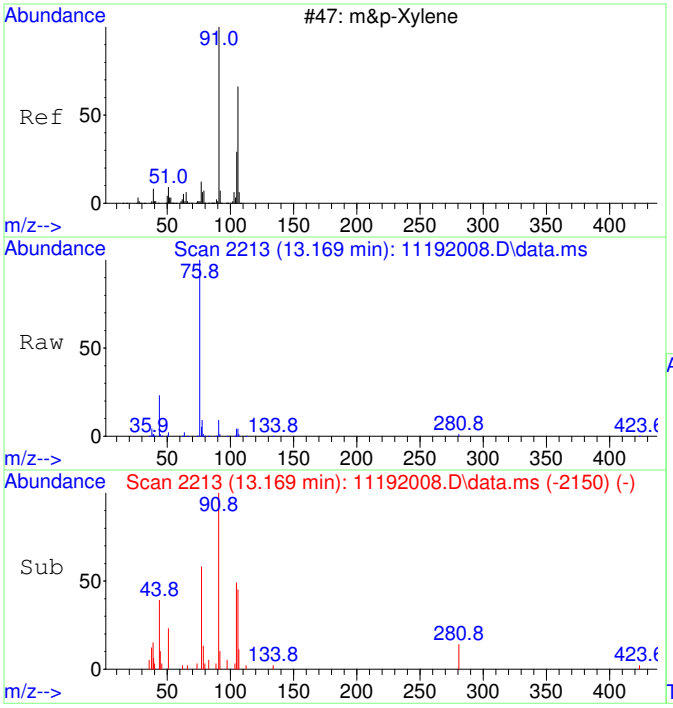


#42
Ethylbenzene SCAN
Concen: 83.74 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 10481

Ion	Ratio	Lower	Upper
91	100		
106	34.9	23.1	83.1
51	11.7	0.0	40.1

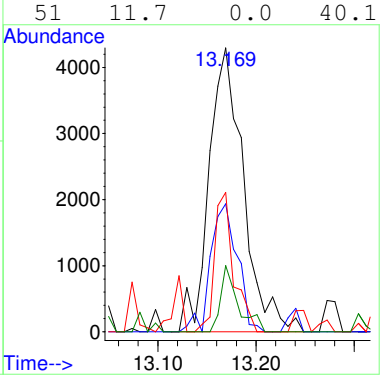


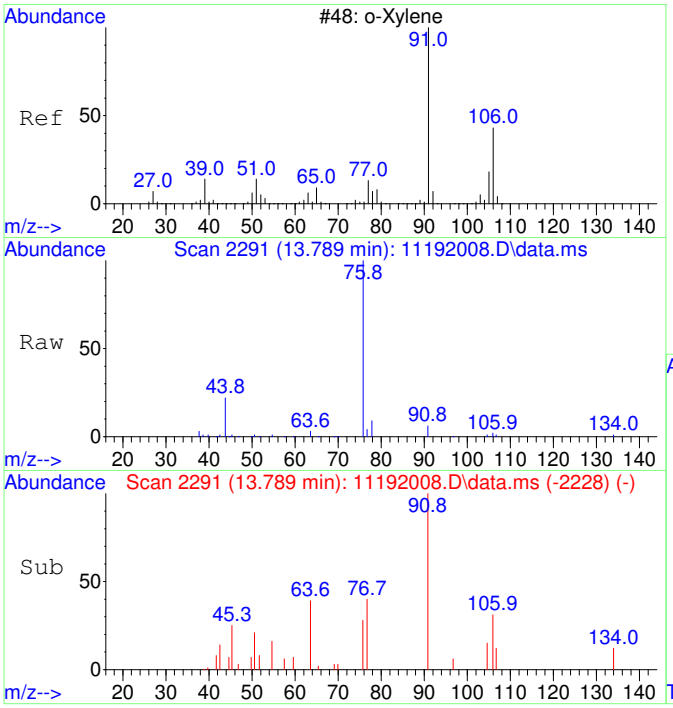


#43
m&p-Xylene SCAN
Concen: 83.74 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 10481

Ion	Ratio	Lower	Upper
91	100		
106	34.9	23.1	83.1
105	27.2	0.0	54.7
51	11.7	0.0	40.1

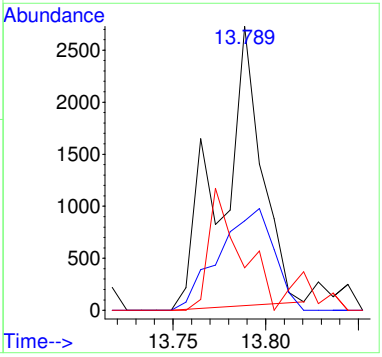


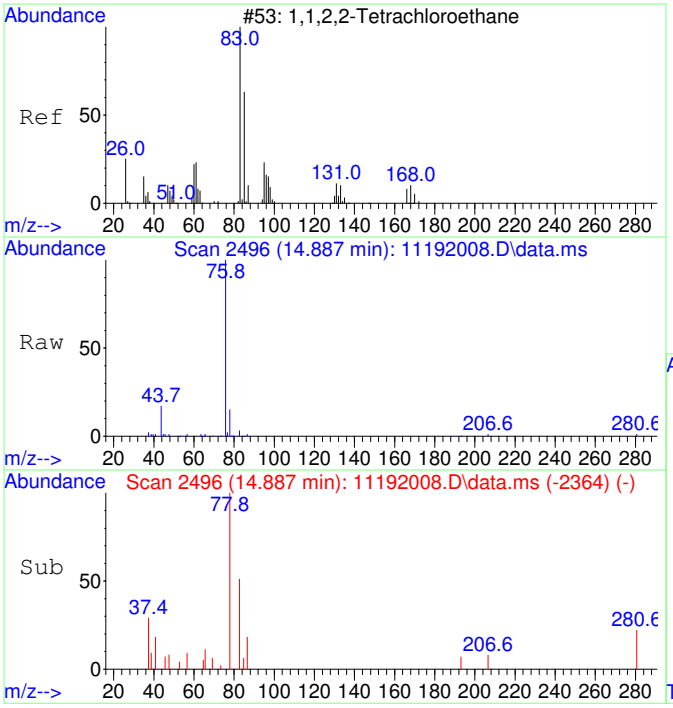


#44
o-Xylene SCAN
Concen: 60.88 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 4079

Ion	Ratio	Lower	Upper
91	100		
106	49.6	18.0	78.0
105	0.0	0.0	56.6

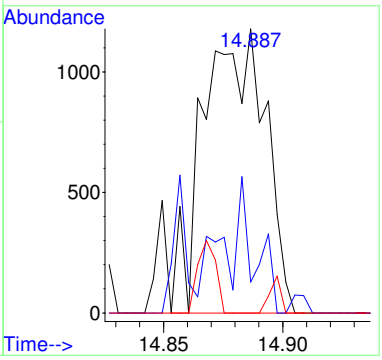


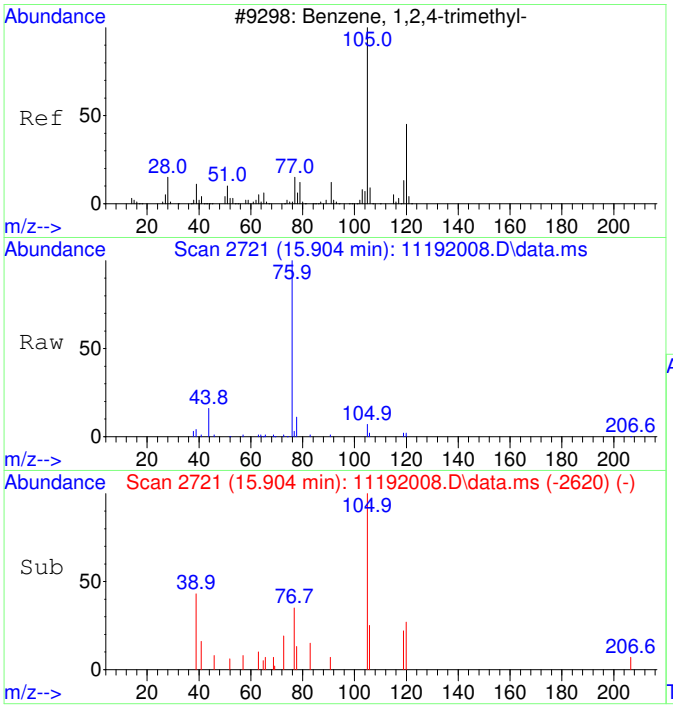


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 65.54 ug/L
RT: 14.887 min Scan# 2496
Delta R.T. 0.015 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 2141

Ion	Ratio	Lower	Upper
83	100		
85	10.2	35.9	95.9#
95	2.3	0.0	47.4

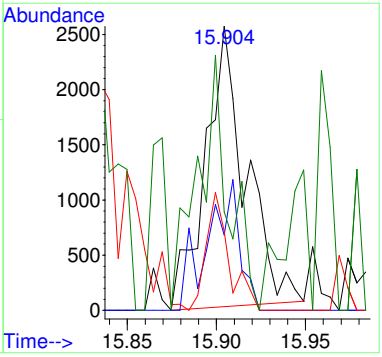


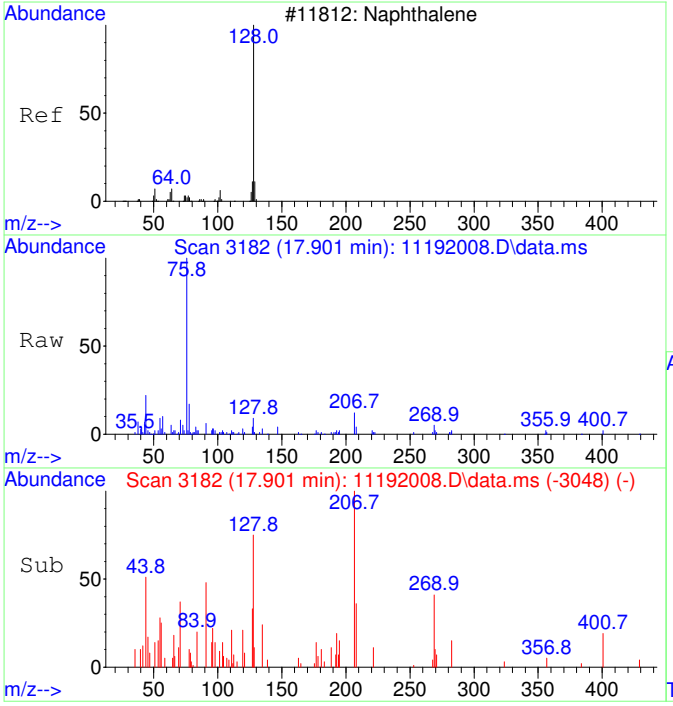


#47
1,2,4-Trimethylbenzene SCAN
Concen: 55.66 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:105 Resp: 4021

Ion	Ratio	Lower	Upper
105	100		
120	36.7	16.9	76.9
119	23.8	0.0	41.9
77	69.8	0.0	42.3#

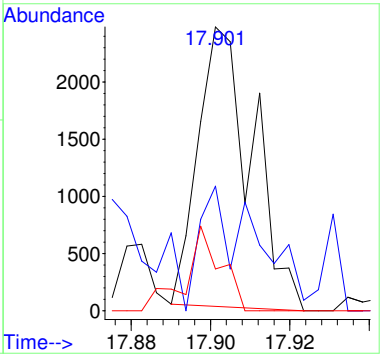




#48
Naphthalene SCAN
Concen: 21.33 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. -0.004 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:128 Resp: 2332

Ion	Ratio	Lower	Upper
128	100		
127	42.9	0.0	44.0
129	19.5	0.0	40.8



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192008.D
Acq On : 19 Nov 2020 11:08
InstName : AG5975C
Operator : TD
Sample : B20K078-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

M.I. Performed By:
TD at 11:23 am, Nov 23, 2020

M.I. Approved By:
ZR at 4:08 pm, Nov 23, 2020

Quant Time: Nov 23 08:14:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

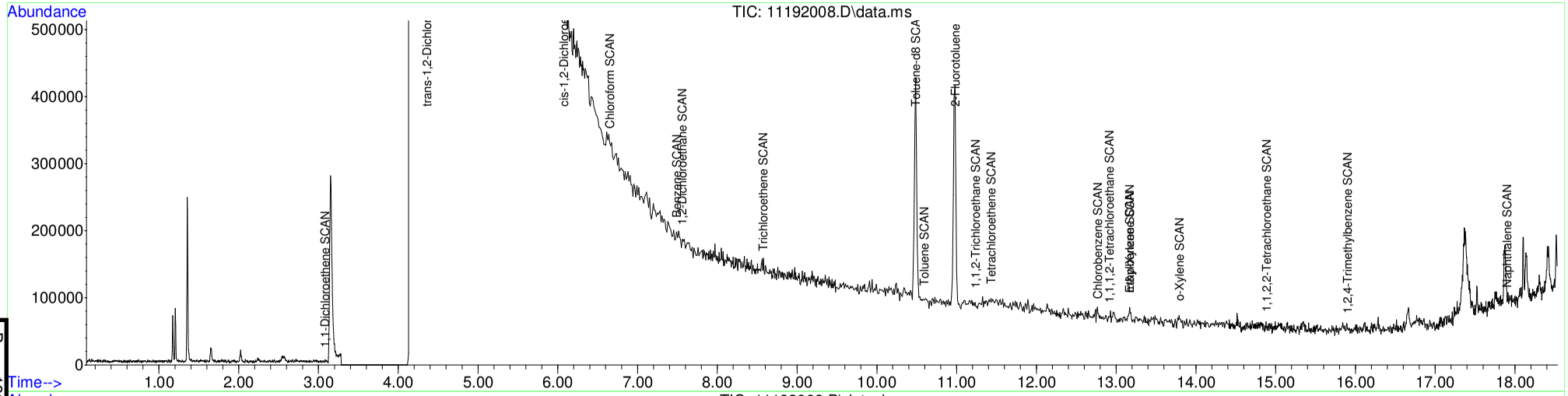
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	562715	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	482886	4383.60	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.67%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	1103m	49.09	ug/L	
3] trans-1,2-Dichloroethene	4.369	61	1268	48.84	ug/L	88
4] 1,1-Dichloroethane	5.086	63	1603	49.60	ug/L	57
5] cis-1,2-Dichloroethene	6.088	61	1620	47.49	ug/L	92
6] Chloroform	6.652	83	1685	48.26	ug/L	97
7] 1,1,1-Trichloroethane	6.919	97	1806	47.63	ug/L	96
8] Carbon tetrachloride	7.187	117	1637	45.87	ug/L	96
9] Benzene	7.503	78	9579	100.19	ug/L	63
10] 1,2-Dichloroethane	7.552	62	1624	47.58	ug/L #	1
11] Trichloroethene	8.575	130	1413	49.09	ug/L	92
13] Toluene	10.582	91	7073	50.36	ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	1394	45.55	ug/L	69
15] Tetrachloroethene	11.432	166	1946	47.88	ug/L	98
16] Chlorobenzene	12.765	112	4753	47.26	ug/L	87
17] 1,1,1,2-Tetrachloroethane	12.916	131	1733	48.09	ug/L	99
18] Ethylbenzene	12.972	91	9152	53.54	ug/L	95
19] m&p-Xylene	13.162	91	14256	106.70	ug/L	95
20] o-Xylene	13.782	91	6661	46.67	ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.877	83	2870	45.37	ug/L	99
22] 1,3,5-Trimethylbenzene	15.350	105	7866	51.77	ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	8670	54.94	ug/L	91
25) 2-Fluorotoluene SCAN	10.979	109	269247	4908.40	ug/L	100
26) 1,1-Dichloroethene SCAN	3.077	61	238	20.43	ug/L #	46
27) trans-1,2-Dichloroethe...	4.355	61	713	49.46	ug/L #	48
29) cis-1,2-Dichloroethene...	6.073	61	563	31.50	ug/L #	1
30) Chloroform SCAN	6.650	83	955	49.26	ug/L #	56
33) Benzene SCAN	7.490	78	21061	432.96	ug/L	94
34) 1,2-Dichloroethane SCAN	7.563	62	562	31.29	ug/L #	1
35) Trichloroethene SCAN	8.574	130	655	49.00	ug/L #	67
36) Toluene-d8 SCAN	10.486	98	229459	4277.29	ug/L	98
37) Toluene SCAN	10.591	91	2558	37.23	ug/L #	48
38) 1,1,2-Trichloroethane ...	11.231	97	1208	78.34	ug/L #	49
39) Tetrachloroethene SCAN	11.430	166	1292	78.28	ug/L #	57
40) Chlorobenzene SCAN	12.772	112	3014	64.20	ug/L #	73
41) 1,1,1,2-Tetrachloroeth...	12.915	131	1039	59.80	ug/L #	57
42) Ethylbenzene SCAN	13.169	91	10481	83.74	ug/L	78
43) m&p-Xylene SCAN	13.169	91	10481	83.74	ug/L	83
44) o-Xylene SCAN	13.789	91	4079	60.88	ug/L #	80
45) 1,1,2,2-Tetrachloroeth...	14.887	83	2141	65.54	ug/L #	37
47) 1,2,4-Trimethylbenzene...	15.904	105	4021	55.66	ug/L #	59
48) Naphthalene SCAN	17.901	128	2332	21.33	ug/L	50

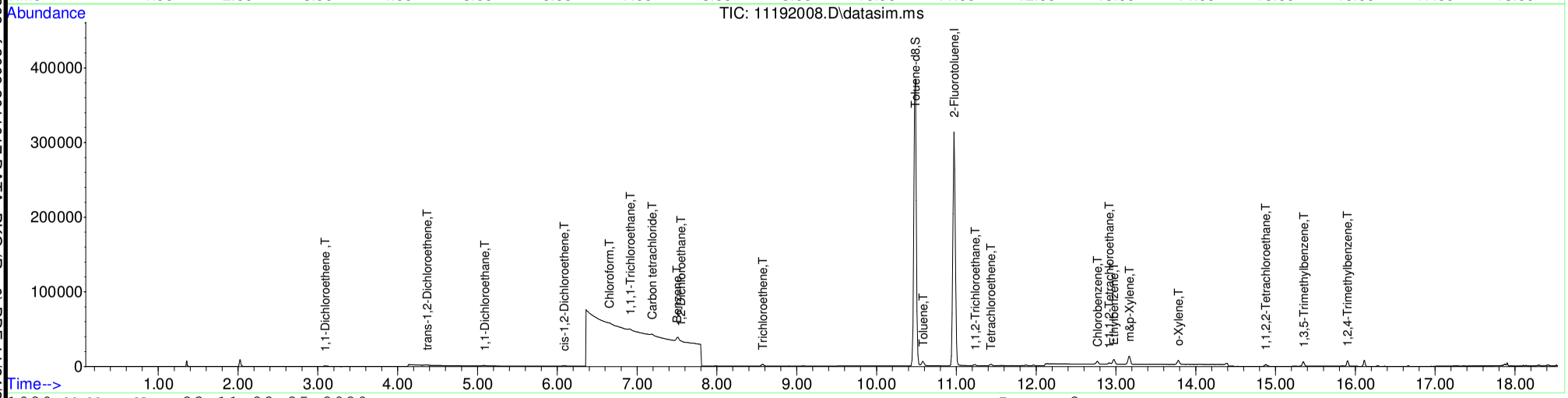
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192008.D
Acq On : 19 Nov 2020 11:08
InstName : AG5975C
Operator : TD
Sample : B20K078-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 23 08:14:01 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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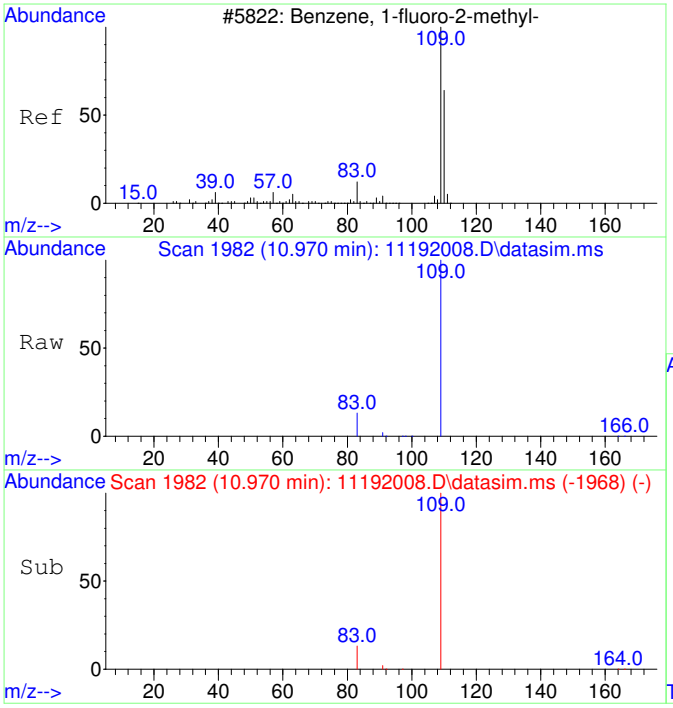
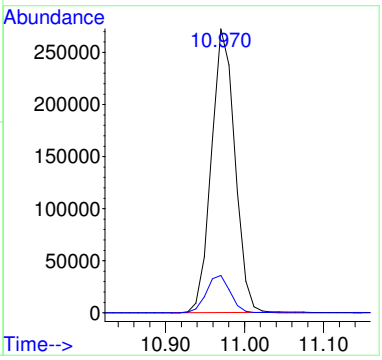
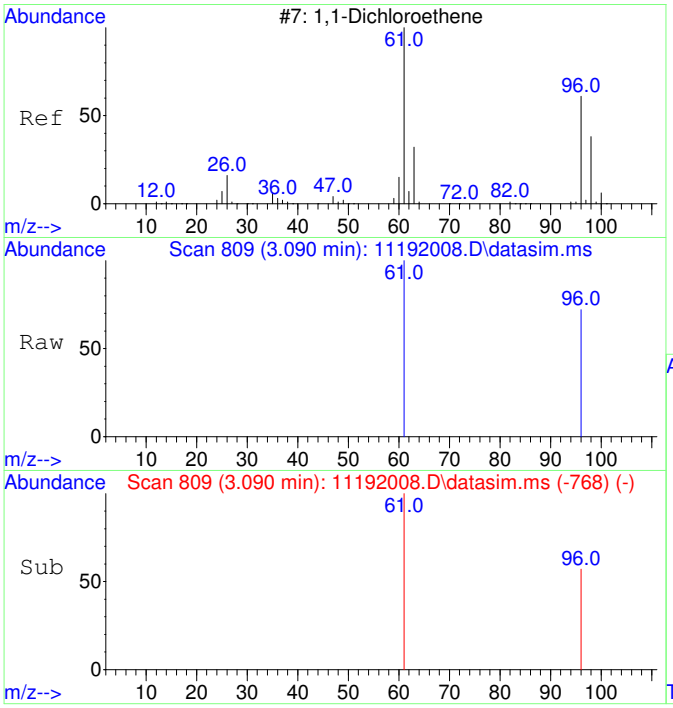


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:109 Resp: 562715

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

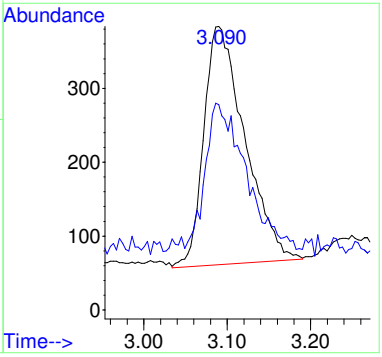


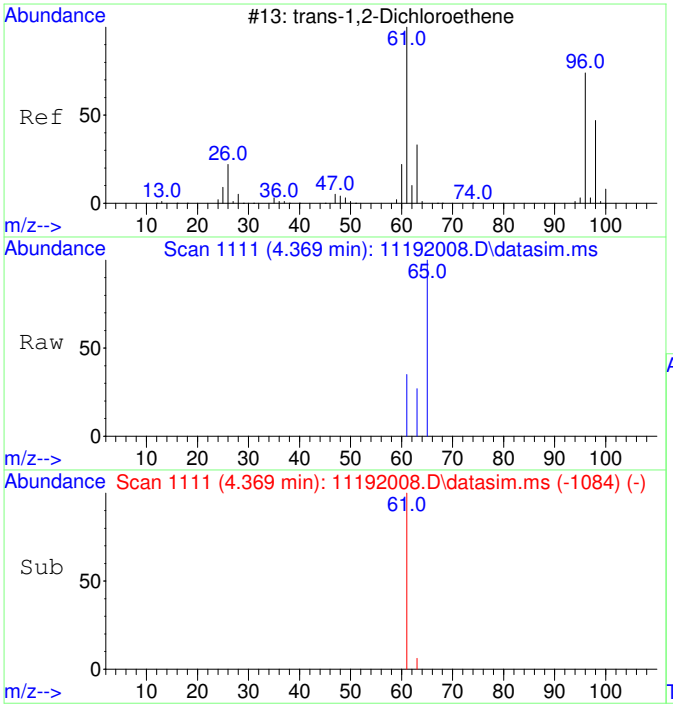


#2
1,1-Dichloroethene
Concen: 49.09 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.004 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 1103

Ion	Ratio	Lower	Upper
61	100		
96	75.9	37.2	97.2

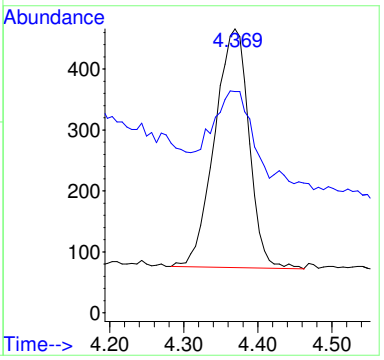


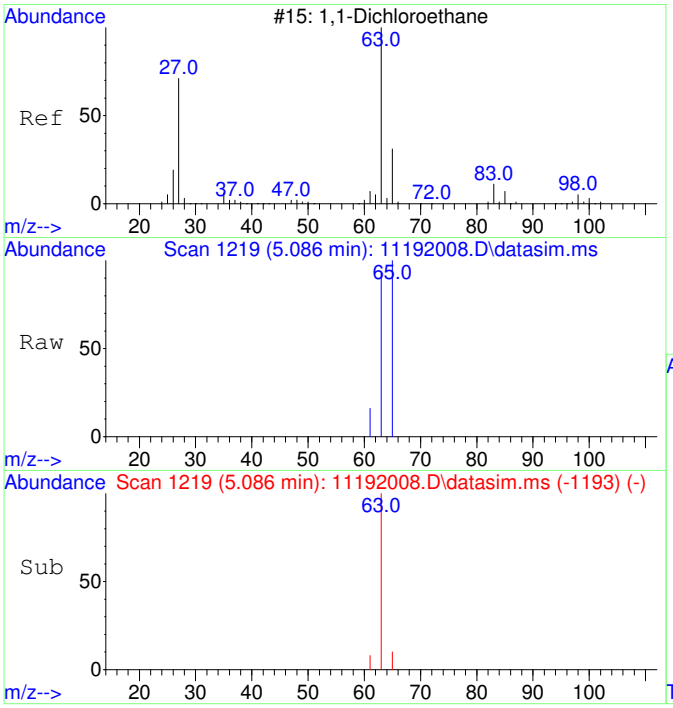


#3
trans-1,2-Dichloroethene
Concen: 48.84 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. 0.026 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 1268

Ion	Ratio	Lower	Upper
61	100		
63	39.3	2.4	62.4

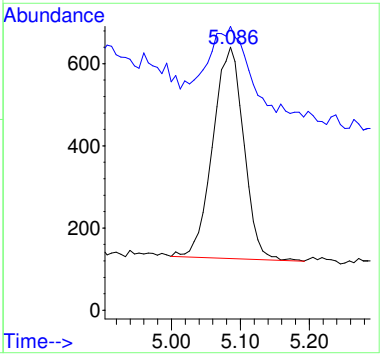


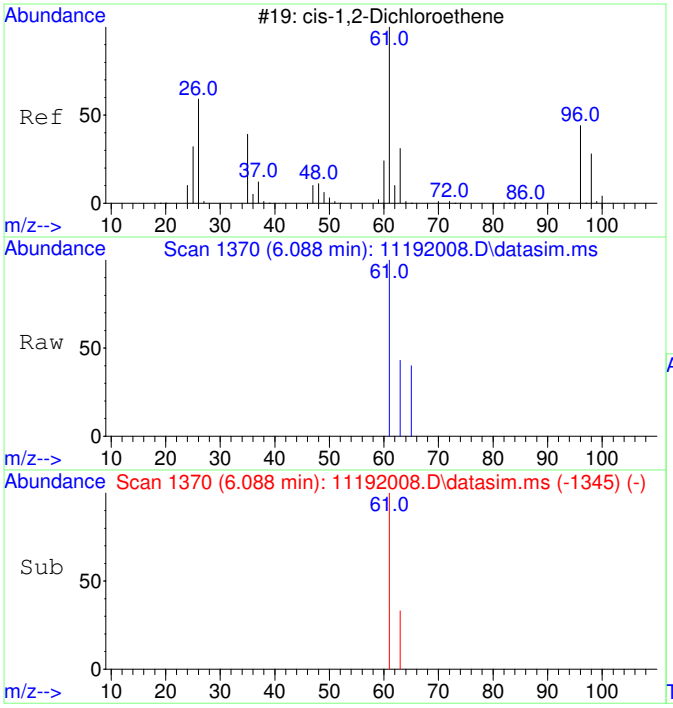


#4
1,1-Dichloroethane
Concen: 49.60 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. 0.020 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 63 Resp: 1603

Ion	Ratio	Lower	Upper
63	100		
65	55.8	1.8	61.8

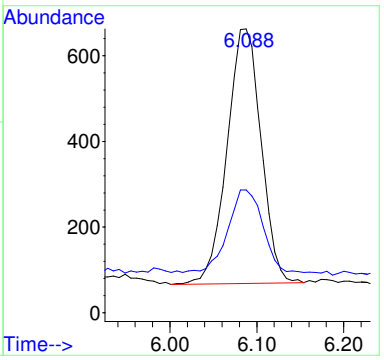


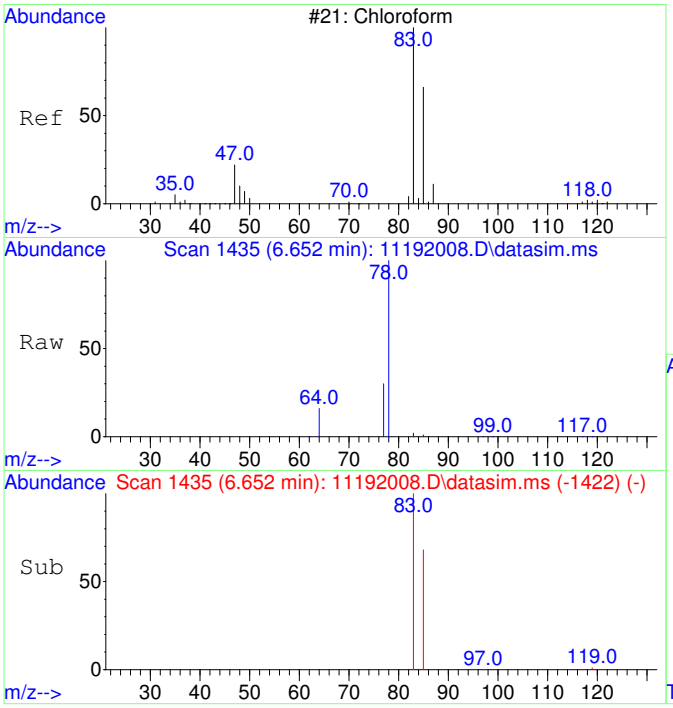


#5
cis-1,2-Dichloroethene
Concen: 47.49 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. 0.013 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 1620

Ion	Ratio	Lower	Upper
61	100		
63	37.2	2.5	62.5

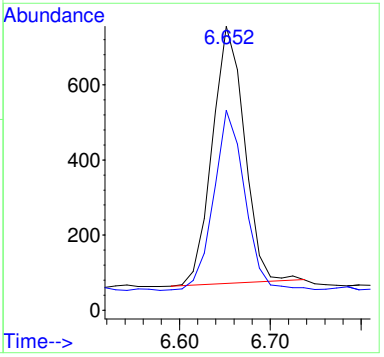


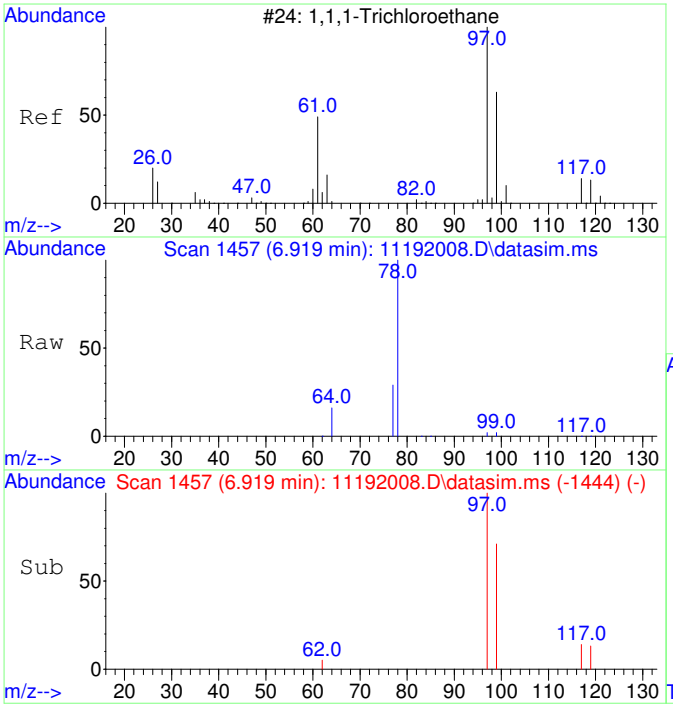


#6
Chloroform
Concen: 48.26 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 1685

Ion	Ratio	Lower	Upper
83	100		
85	67.7	35.1	95.1

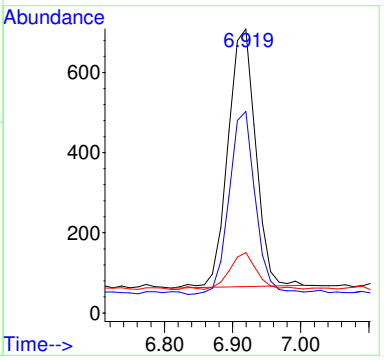


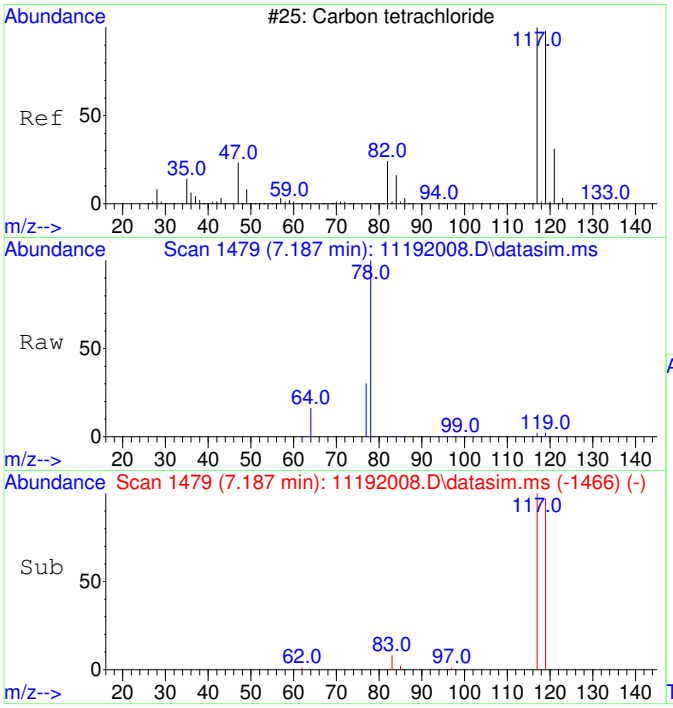


#7
1,1,1-Trichloroethane
Concen: 47.63 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 97 Resp: 1806

Ion	Ratio	Lower	Upper
97	100		
99	67.8	34.6	94.6
117	13.9	0.0	43.2

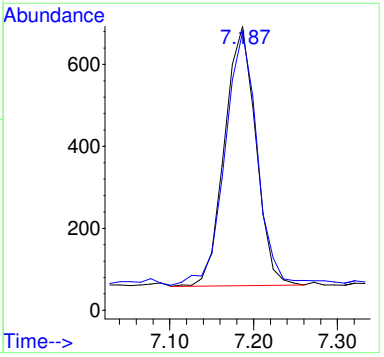


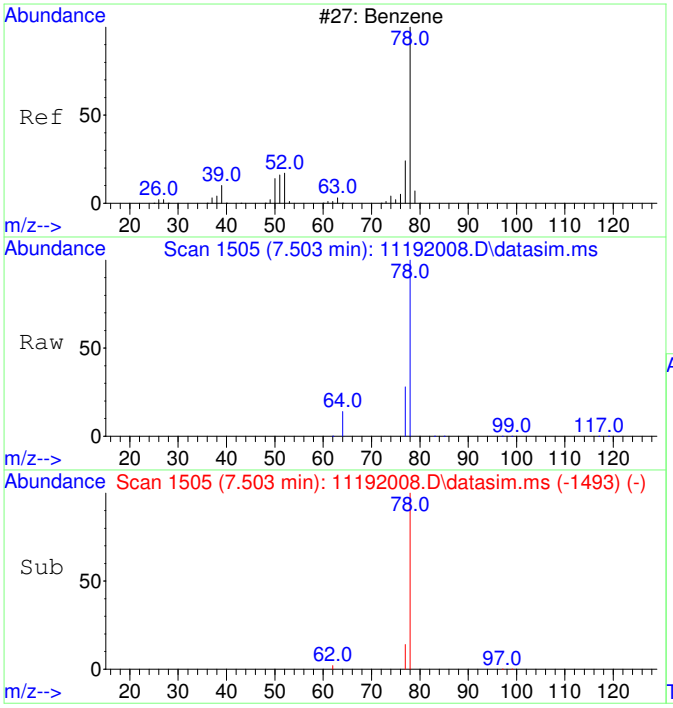


#8
Carbon tetrachloride
Concen: 45.87 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:117 Resp: 1637

Ion	Ratio	Lower	Upper
117	100		
119	100.7	66.4	126.4

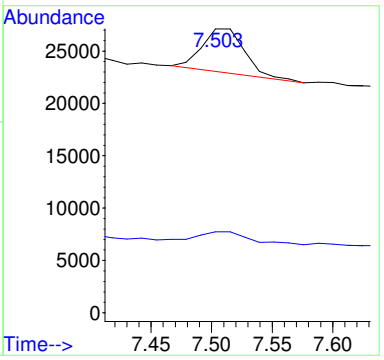


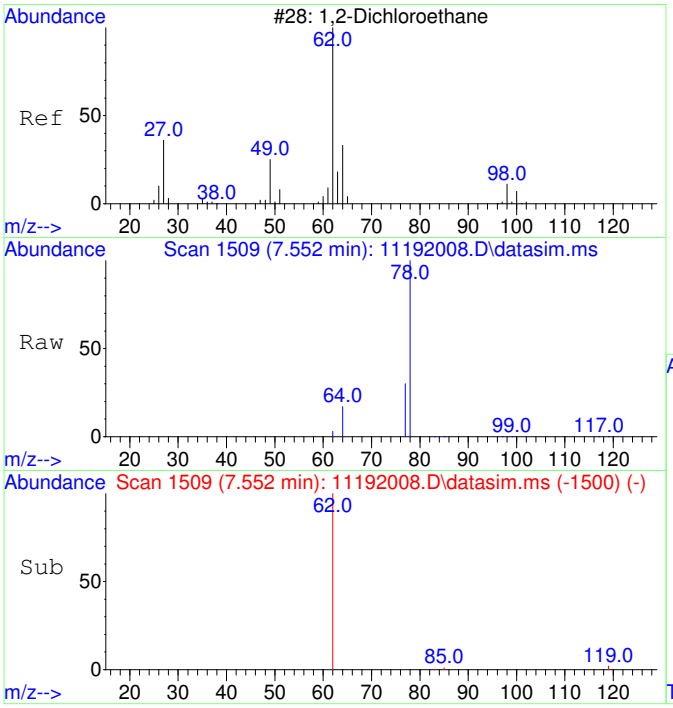


#9
Benzene
Concen: 100.19 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 78 Resp: 9579

Ion	Ratio	Lower	Upper
78	100		
77	41.1	0.0	53.2

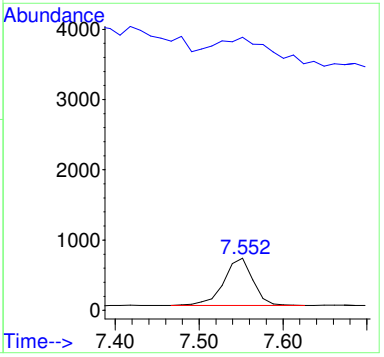


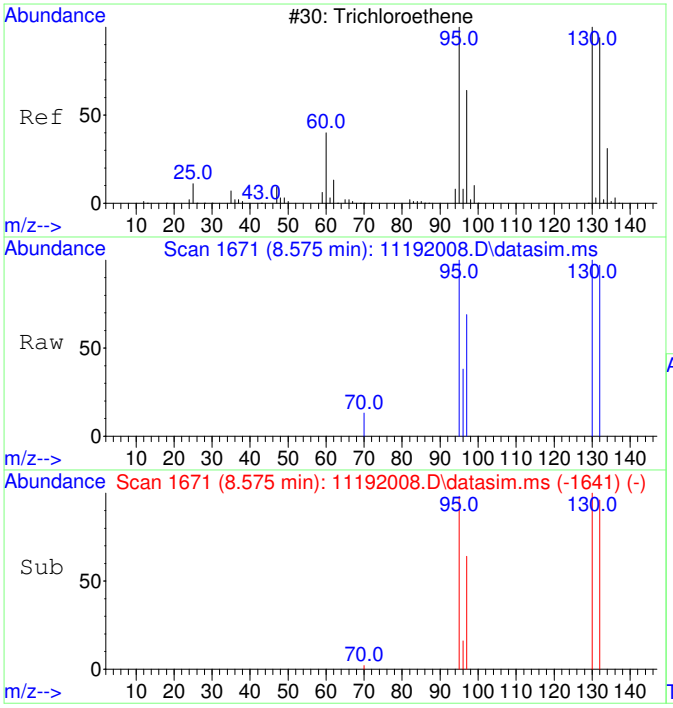


#10
1,2-Dichloroethane
Concen: 47.58 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 62 Resp: 1624

Ion	Ratio	Lower	Upper
62	100		
64	99.0	2.3	62.3#

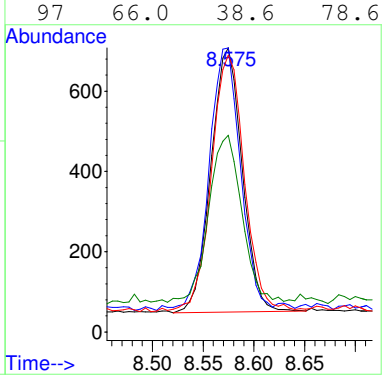


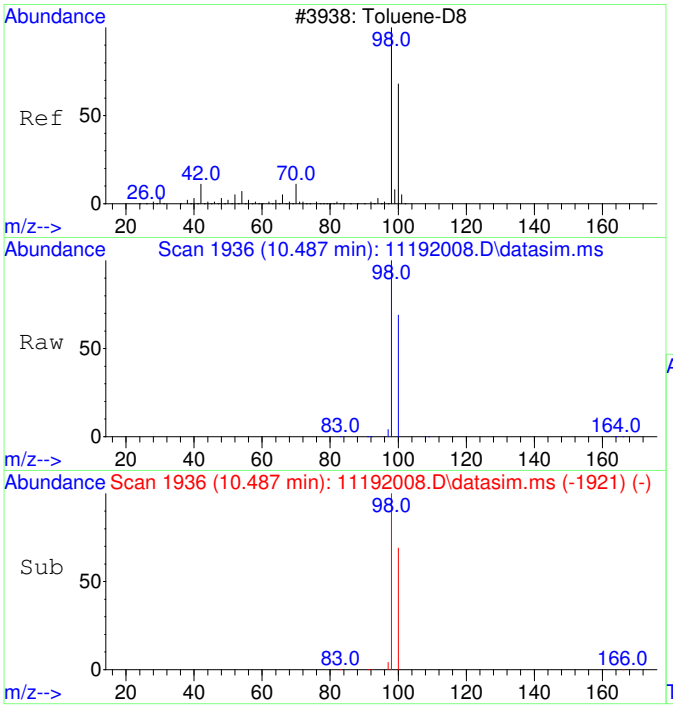


#11
Trichloroethene
Concen: 49.09 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.011 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:130 Resp: 1413

Ion	Ratio	Lower	Upper
130	100		
95	100.0	60.7	120.7
132	101.0	76.0	116.0
97	66.0	38.6	78.6

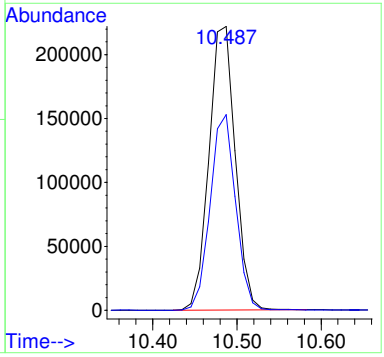


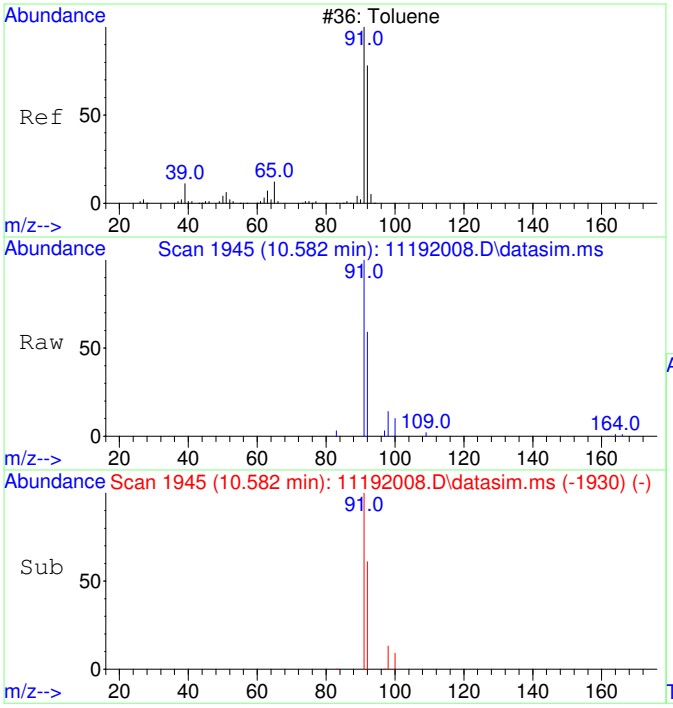


#12
Toluene-d8
Concen: 4383.60 ug/L
RT: 10.487 min Scan# 1936
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 98 Resp: 482886

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

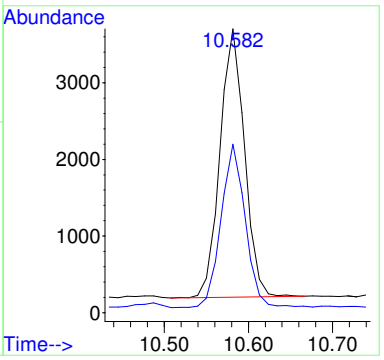


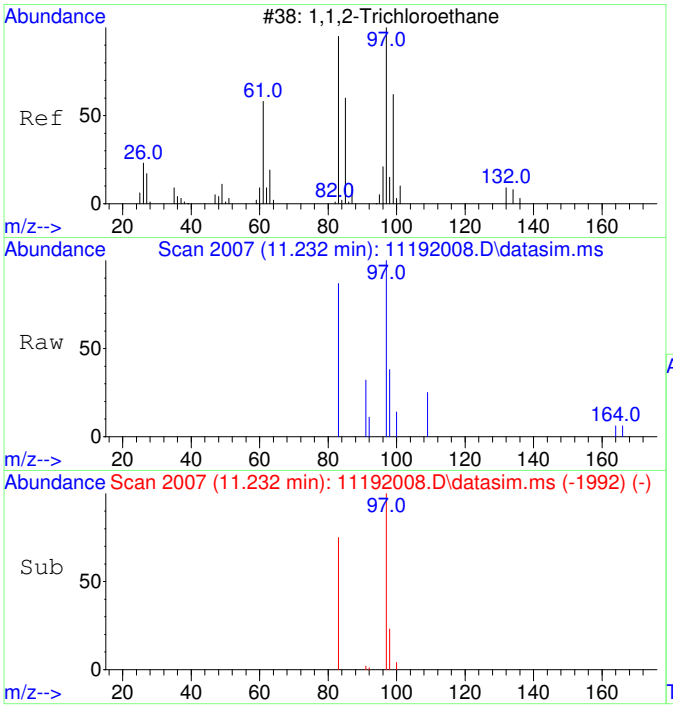


#13
Toluene
Concen: 50.36 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 7073

Ion	Ratio	Lower	Upper
91	100		
92	59.7	29.9	89.9

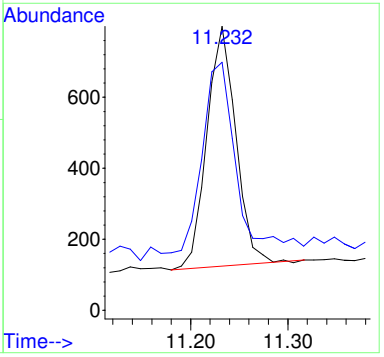


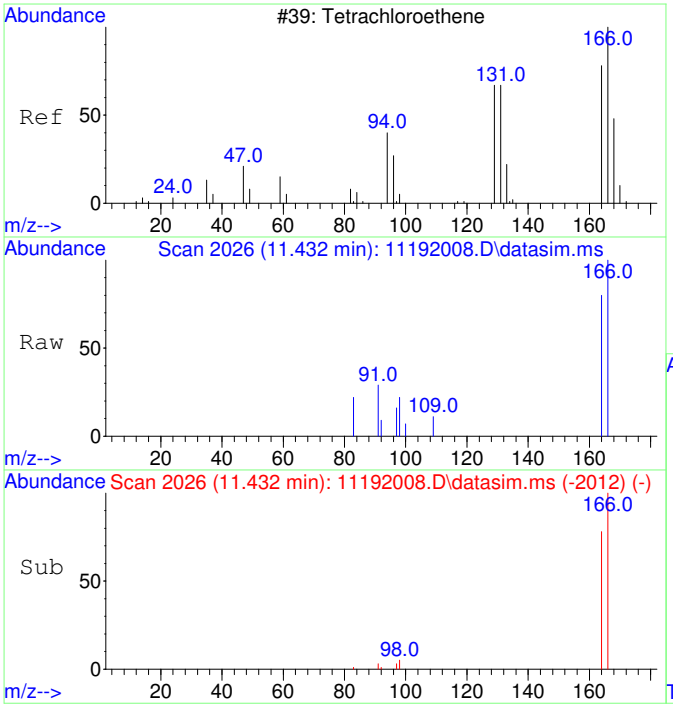


#14
1,1,2-Trichloroethane
Concen: 45.55 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 97 Resp: 1394

Ion	Ratio	Lower	Upper
97	100		
83	109.0	51.2	111.2

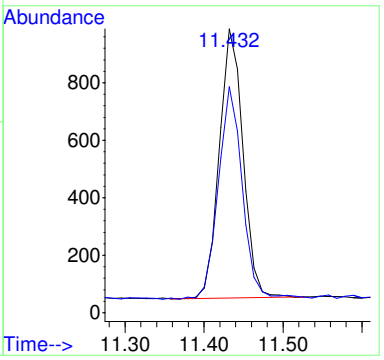


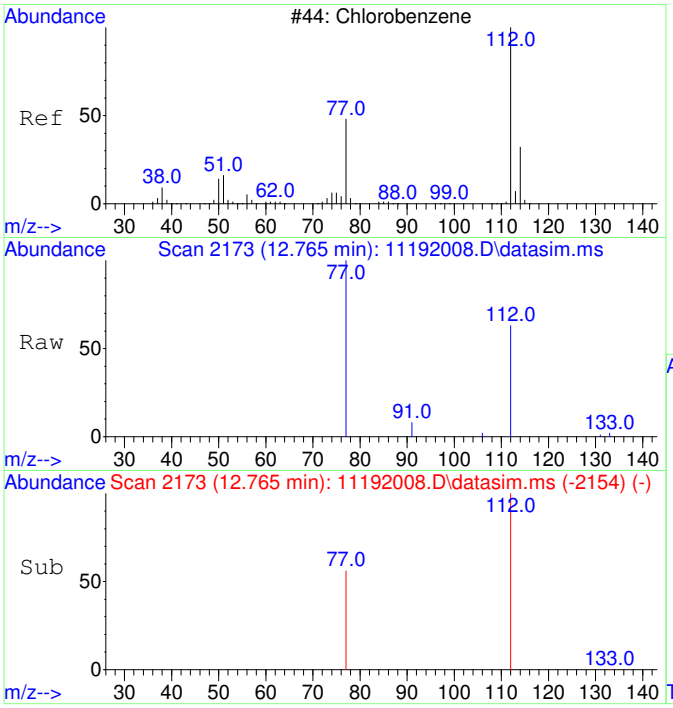


#15
Tetrachloroethene
Concen: 47.88 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:166 Resp: 1946

Ion	Ratio	Lower	Upper
166	100		
164	79.4	47.8	107.8

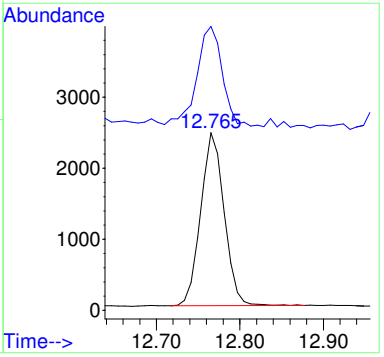


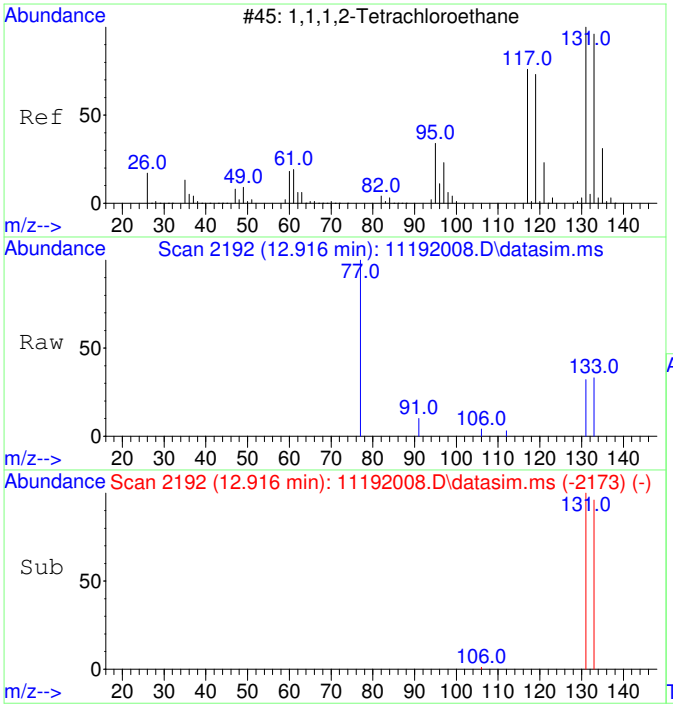


#16
Chlorobenzene
Concen: 47.26 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:112 Resp: 4753

Ion	Ratio	Lower	Upper
112	100		
77	62.8	23.6	83.6

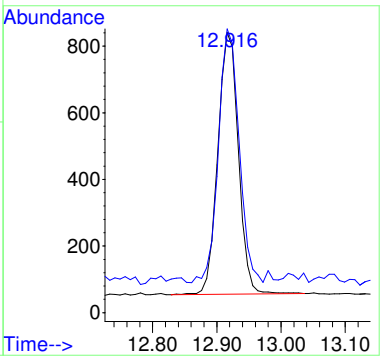


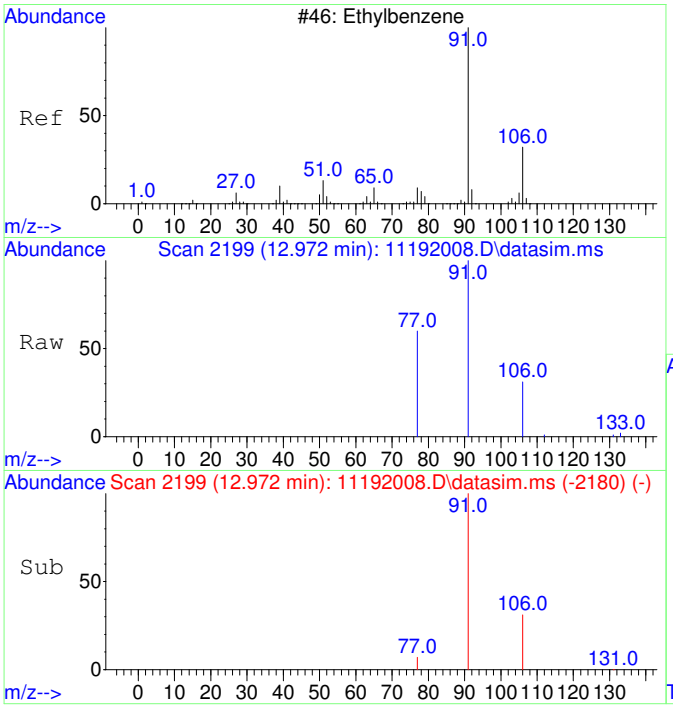


#17
1,1,1,2-Tetrachloroethane
Concen: 48.09 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:131 Resp: 1733

Ion	Ratio	Lower	Upper
131	100		
133	97.6	66.3	126.3

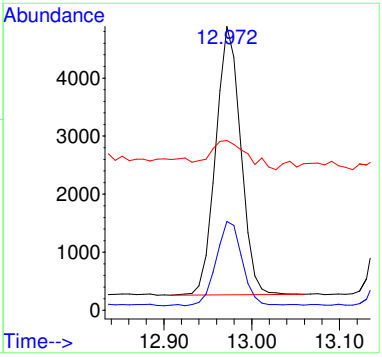


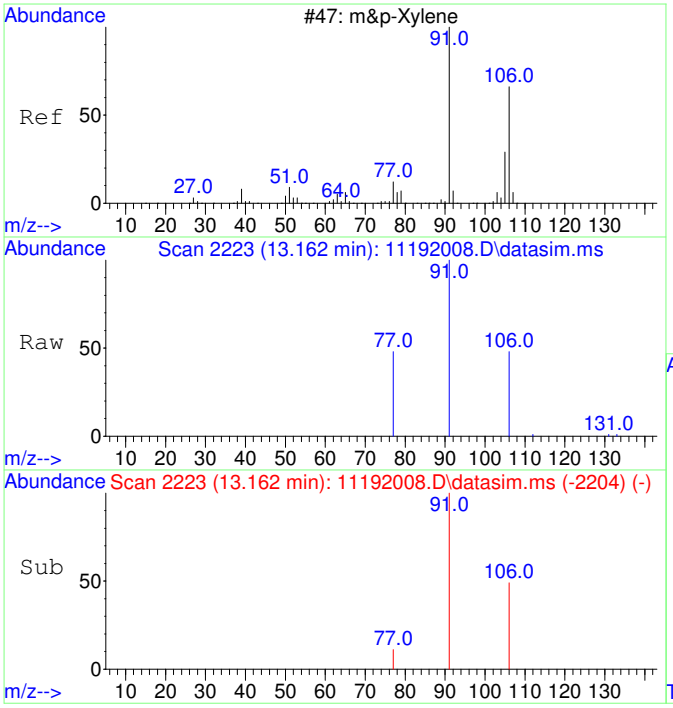


#18
Ethylbenzene
Concen: 53.54 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 9152

Ion	Ratio	Lower	Upper
91	100		
106	32.7	3.0	63.0
77	15.9	0.0	38.2

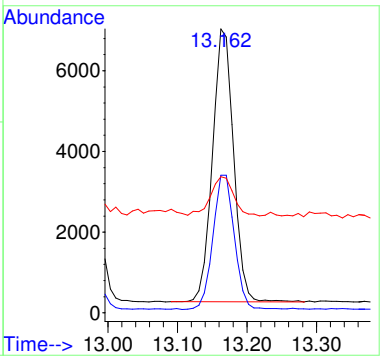


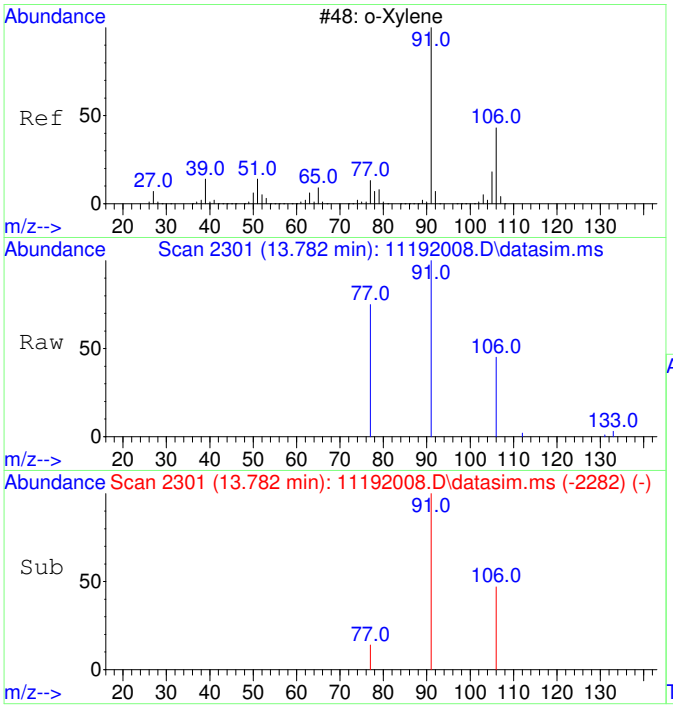


#19
m&p-Xylene
Concen: 106.70 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 14256

Ion	Ratio	Lower	Upper
91	100		
106	49.5	22.2	82.2
77	15.6	0.0	42.4

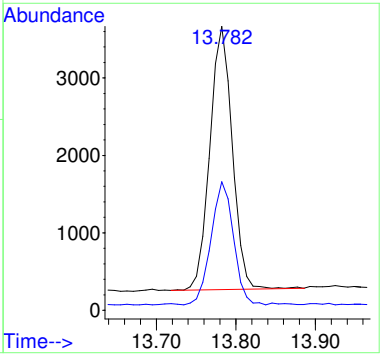


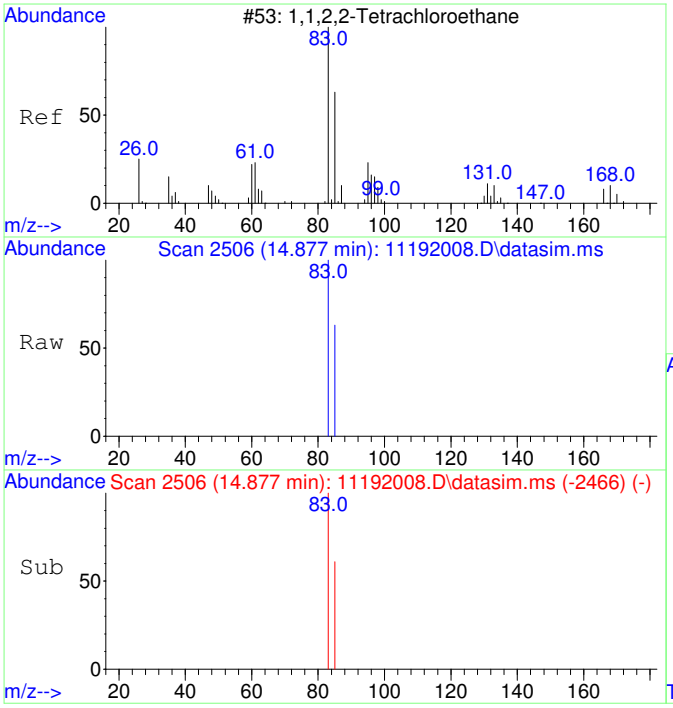


#20
o-Xylene
Concen: 46.67 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 6661

Ion	Ratio	Lower	Upper
91	100		
106	46.6	19.2	79.2

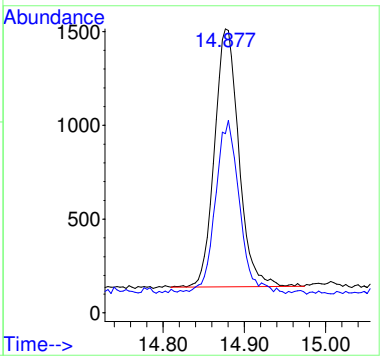


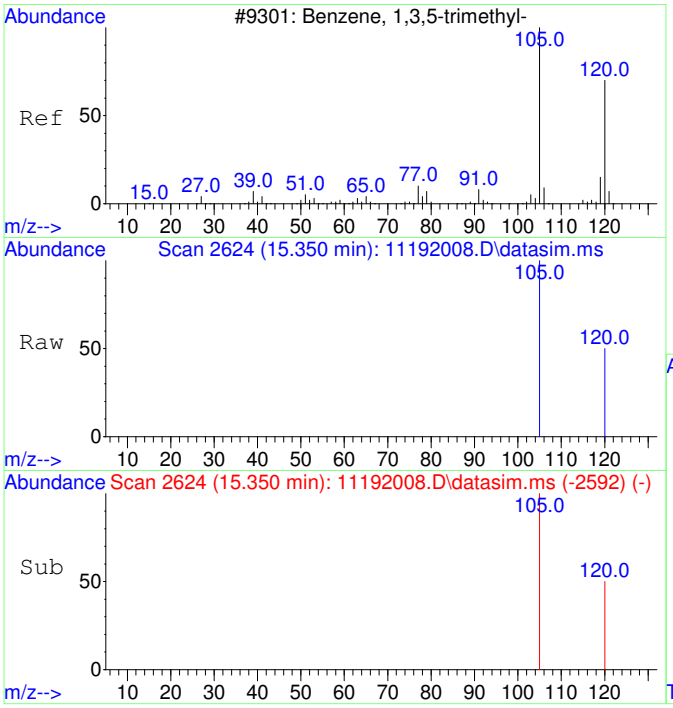


#21
1,1,2,2-Tetrachloroethane
Concen: 45.37 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 2870

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.8	94.8

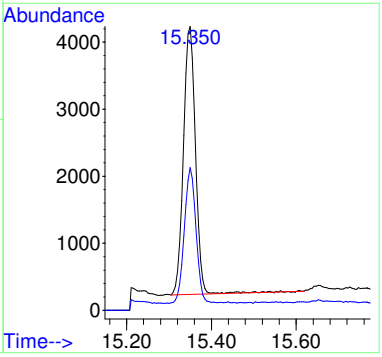


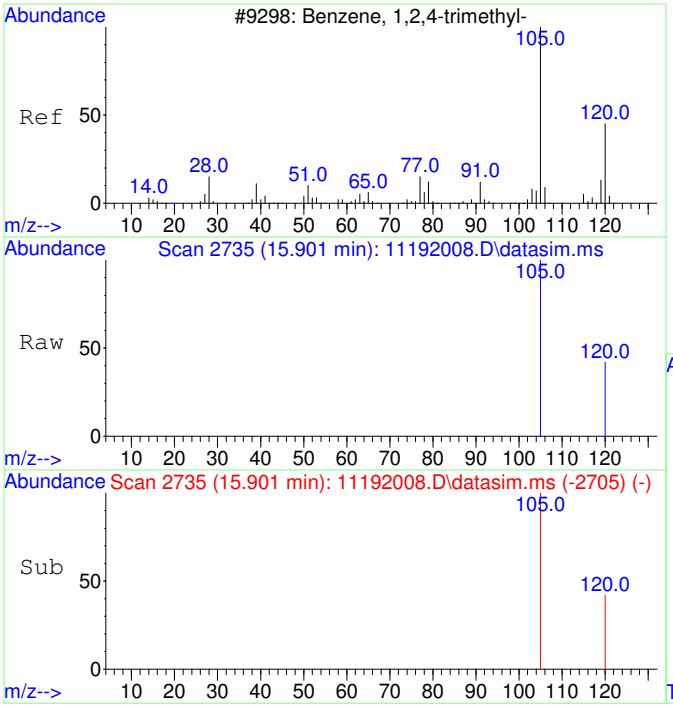


#22
1,3,5-Trimethylbenzene
Concen: 51.77 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:105 Resp: 7866

Ion	Ratio	Lower	Upper
105	100		
120	48.3	21.1	81.1

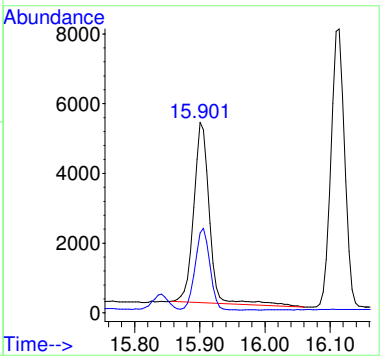


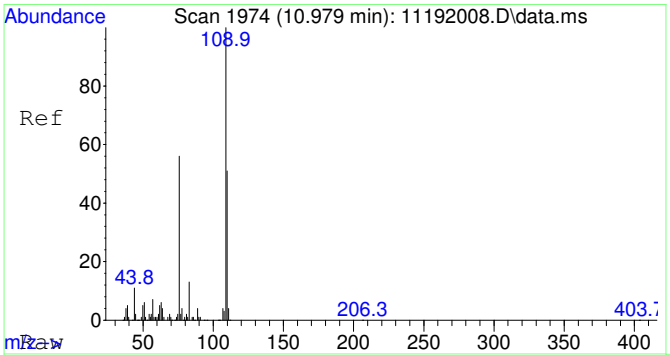


#23
1,2,4-Trimethylbenzene
Concen: 54.94 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:105 Resp: 8670

Ion	Ratio	Lower	Upper
105	100		
120	41.4	17.2	77.2

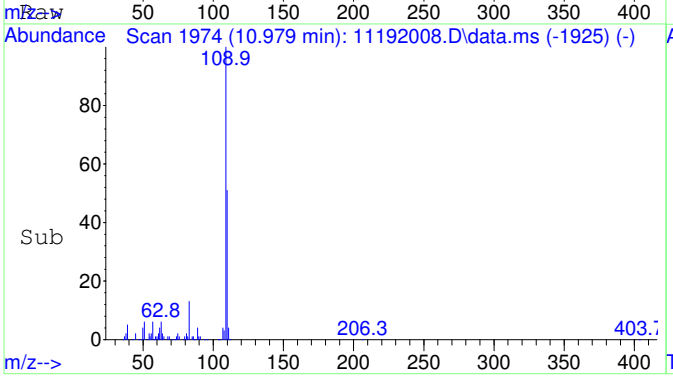


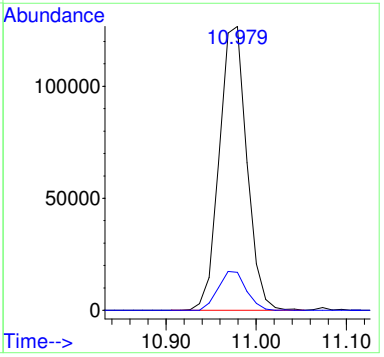


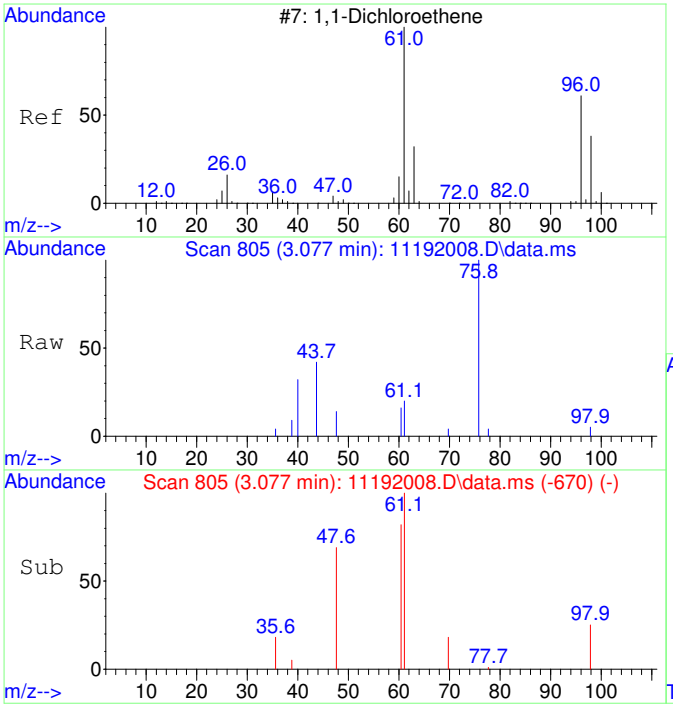
#25
2-Fluorotoluene SCAN
Concen: 4908.40 ug/L
RT: 10.979 min Scan# 1974
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:109 Resp: 269247

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	43.8



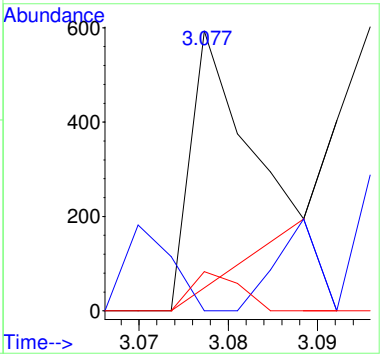


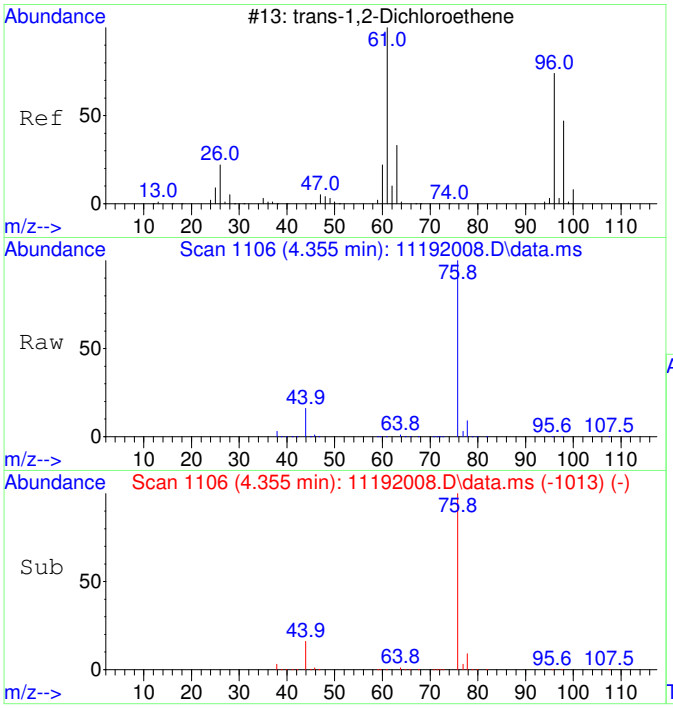


#26
1,1-Dichloroethene SCAN
Concen: 20.43 ug/L
RT: 3.077 min Scan# 805
Delta R.T. 0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 238

Ion	Ratio	Lower	Upper
61	100		
96	27.7	33.1	93.1#
98	0.0	11.2	71.2#

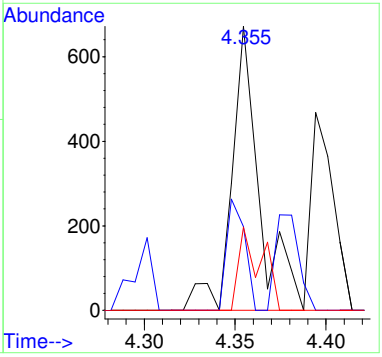


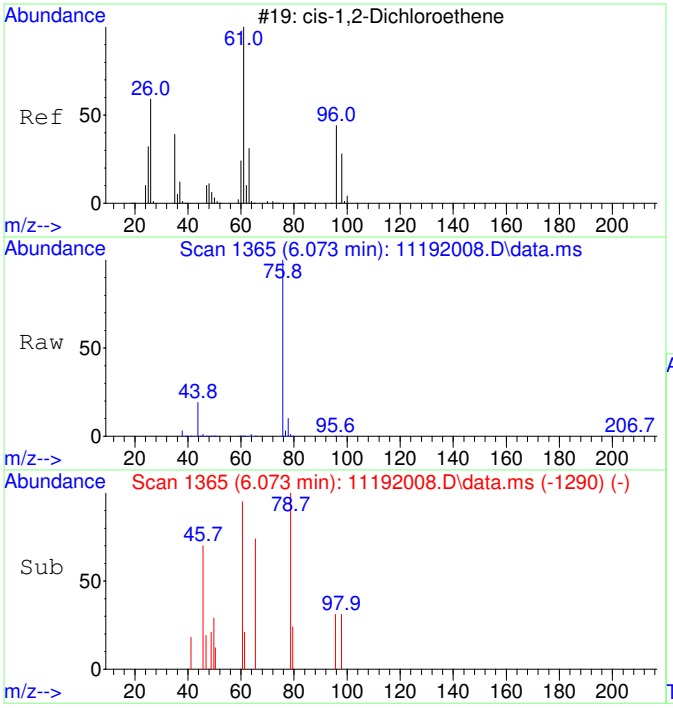


#27
trans-1,2-Dichloroethene SCAN
Concen: 49.46 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. 0.007 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 713

Ion	Ratio	Lower	Upper
61	100		
96	25.8	49.0	109.0#
98	24.4	20.5	80.5

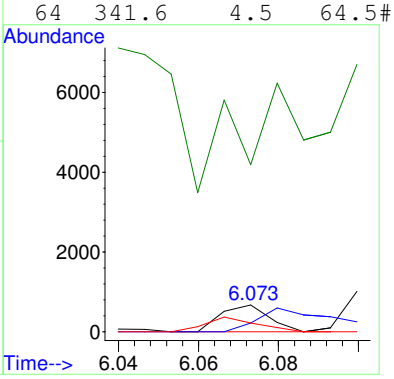


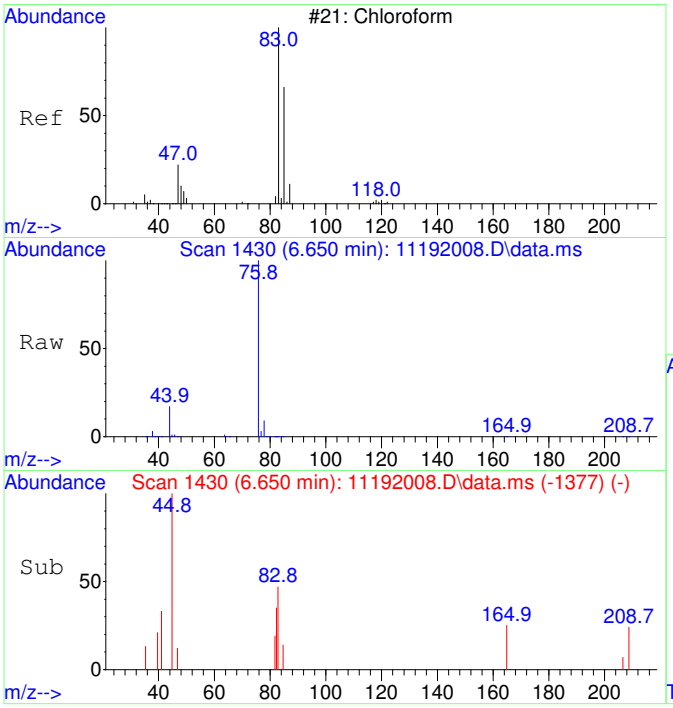


#29
cis-1,2-Dichloroethene SCAN
Concen: 31.50 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 61 Resp: 563

Ion	Ratio	Lower	Upper
61	100		
96	140.5	39.9	99.9#
98	58.8	13.5	73.5
64	341.6	4.5	64.5#

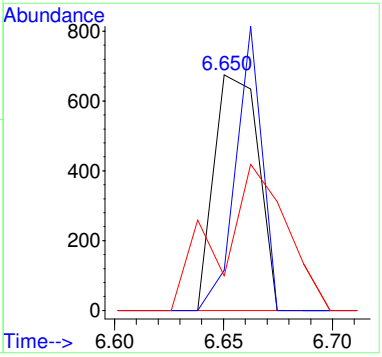


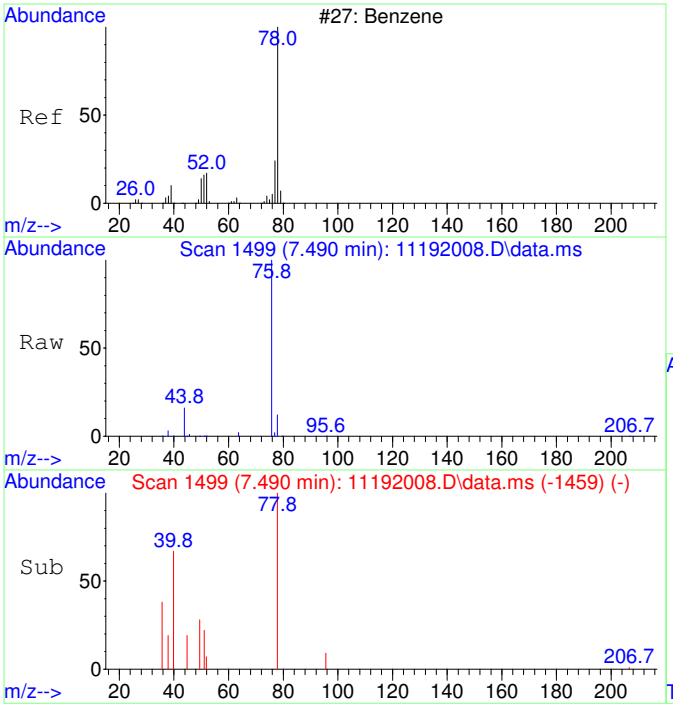


#30
Chloroform SCAN
Concen: 49.26 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 955

Ion	Ratio	Lower	Upper
83	100		
85	71.0	34.6	94.6
47	93.4	0.0	53.4#

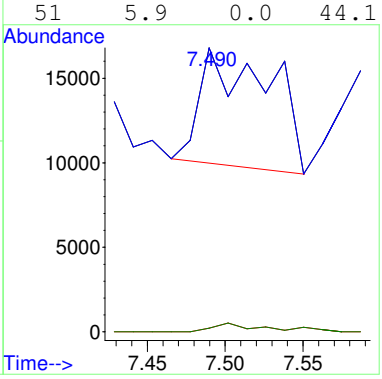


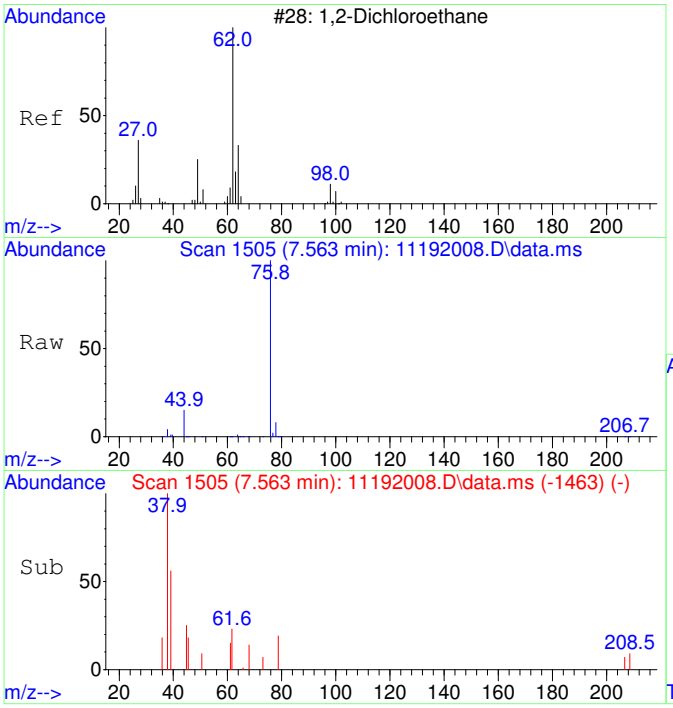


#33
Benzene SCAN
Concen: 432.96 ug/L
RT: 7.490 min Scan# 1499
Delta R.T. -0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 78 Resp: 21061

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	5.9	0.0	47.9
51	5.9	0.0	44.1

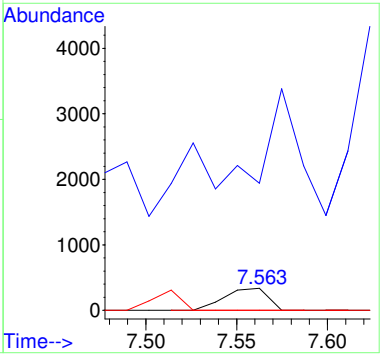


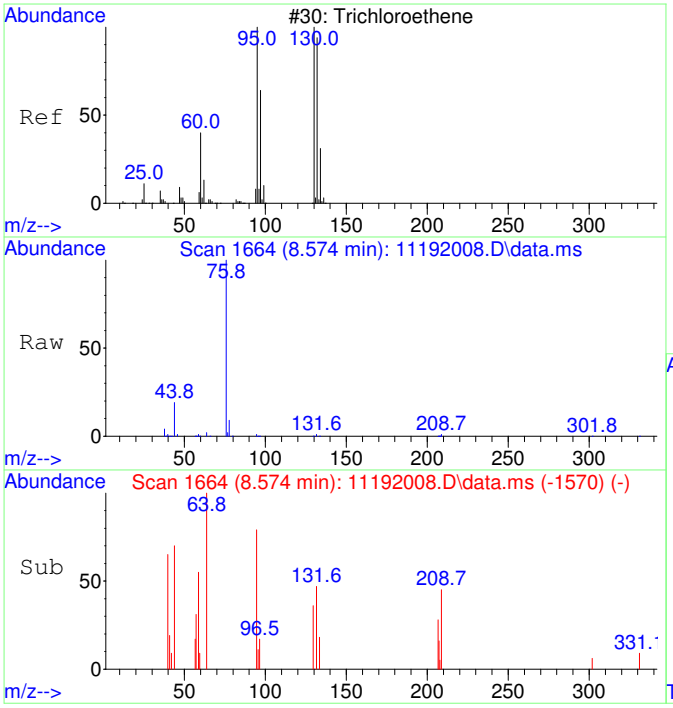


#34
1,2-Dichloroethane SCAN
Concen: 31.29 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 62 Resp: 562

Ion	Ratio	Lower	Upper
62	100		
64	253.7	5.2	65.2#
49	0.0	3.9	63.9#

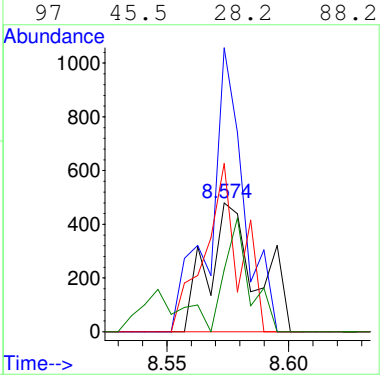


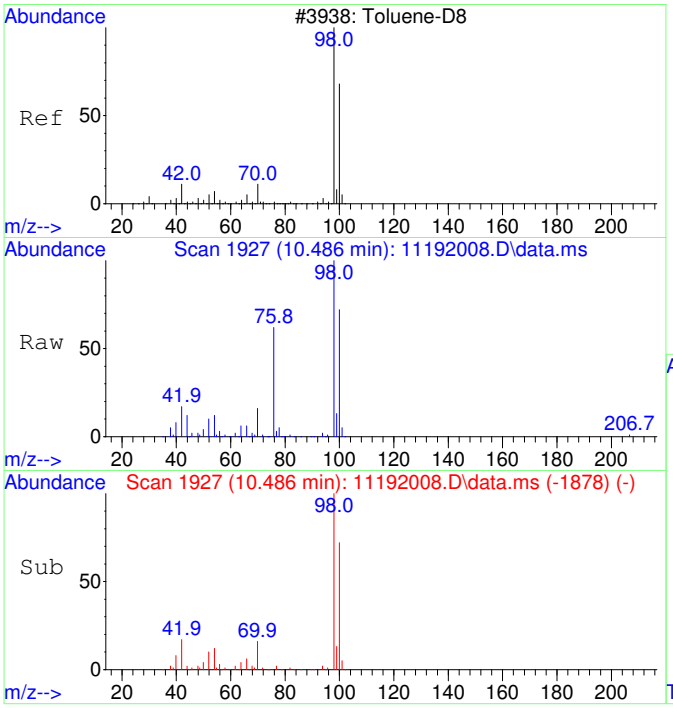


#35
Trichloroethene SCAN
Concen: 49.00 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.011 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:130 Resp: 655

Ion	Ratio	Lower	Upper
130	100		
95	154.4	60.5	120.5#
132	96.3	59.6	119.6
97	45.5	28.2	88.2

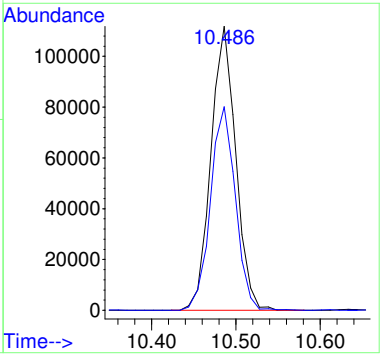


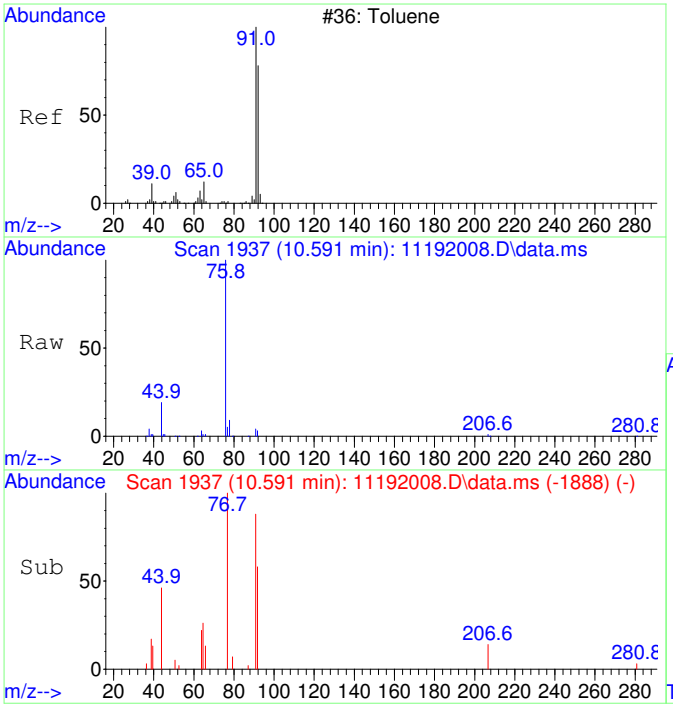


#36
Toluene-d8 SCAN
Concen: 4277.29 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 98 Resp: 229459

Ion	Ratio	Lower	Upper
98	100		
100	71.8	40.0	100.0

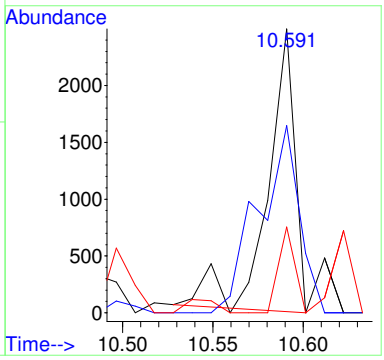


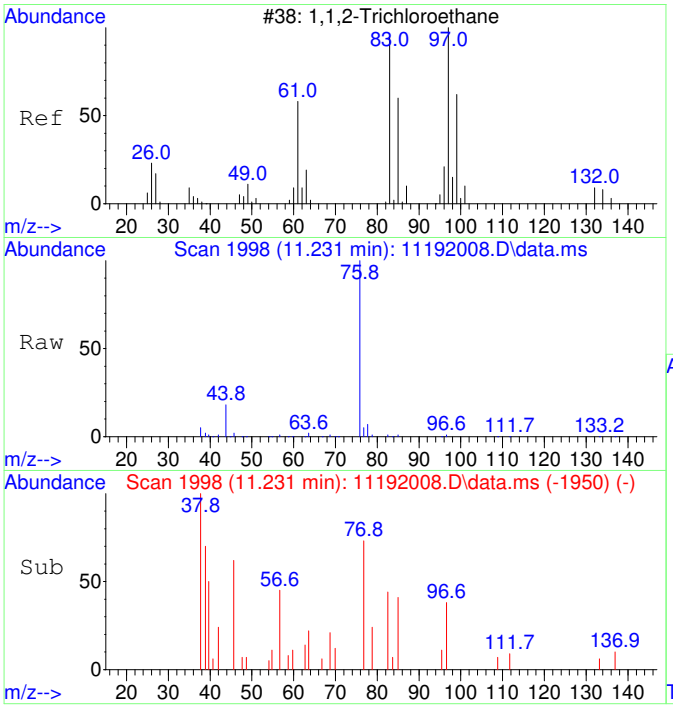


#37
Toluene SCAN
Concen: 37.23 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 2558

Ion	Ratio	Lower	Upper
91	100		
92	101.1	28.3	88.3#
65	18.6	0.0	41.0

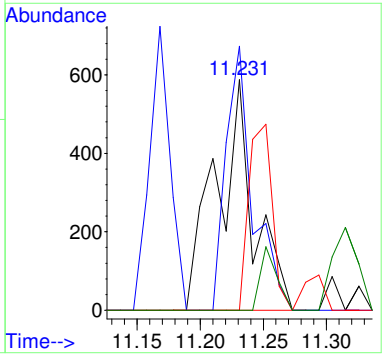


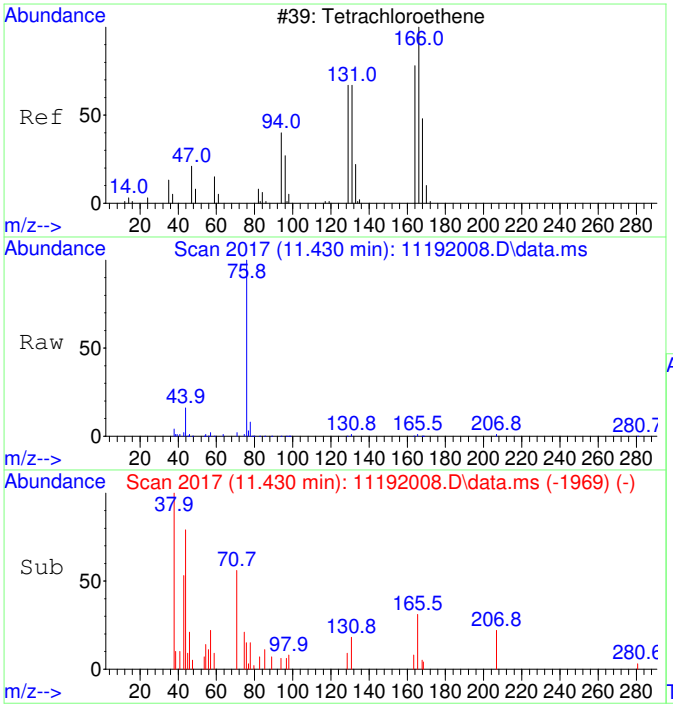


#38
1,1,2-Trichloroethane SCAN
Concen: 78.34 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 97 Resp: 1208

Ion	Ratio	Lower	Upper
97	100		
83	82.4	57.7	117.7
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

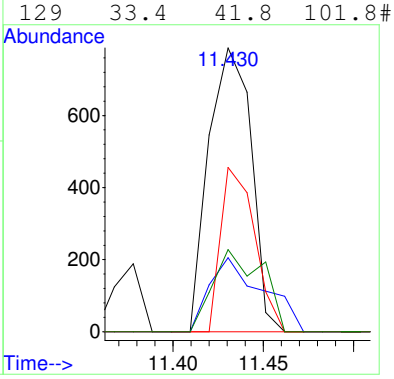


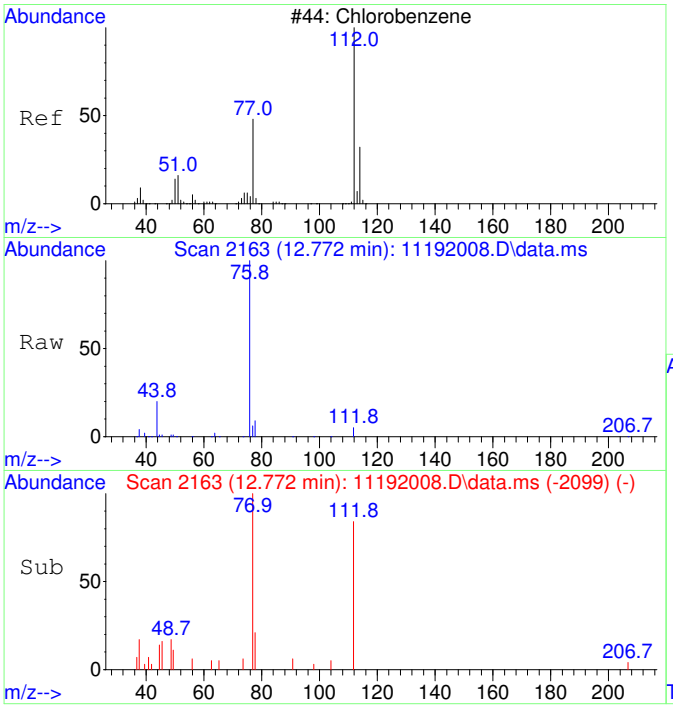


#39
Tetrachloroethene SCAN
Concen: 78.28 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:166 Resp: 1292

Ion	Ratio	Lower	Upper
166	100		
164	32.8	50.9	110.9#
131	46.4	38.7	98.7
129	33.4	41.8	101.8#

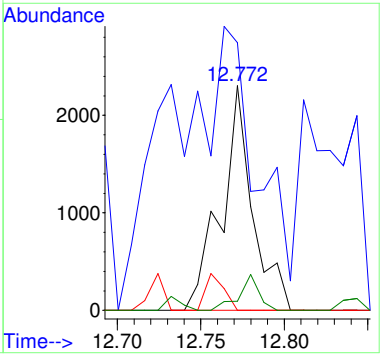


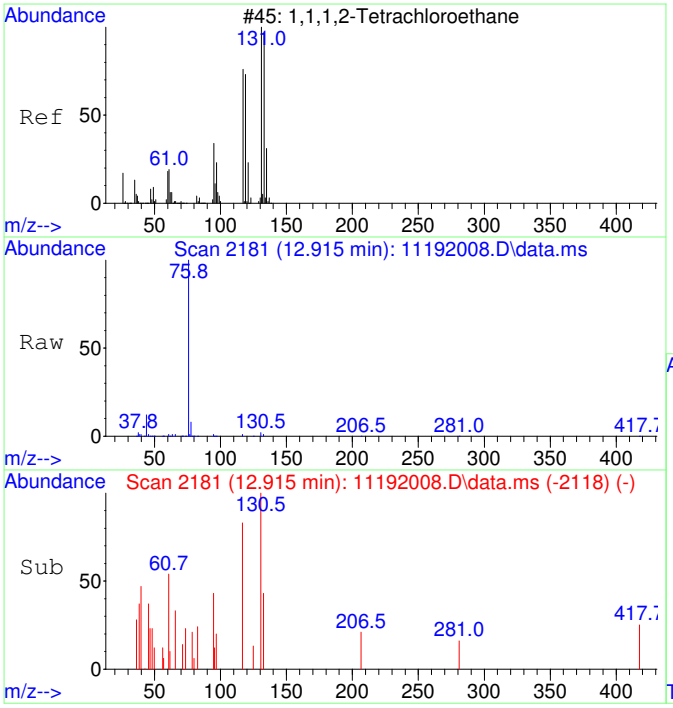


#40
Chlorobenzene SCAN
Concen: 64.20 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:112 Resp: 3014

Ion	Ratio	Lower	Upper
112	100		
77	66.7	28.2	88.2
114	0.0	2.3	62.3#
51	10.1	0.0	50.1

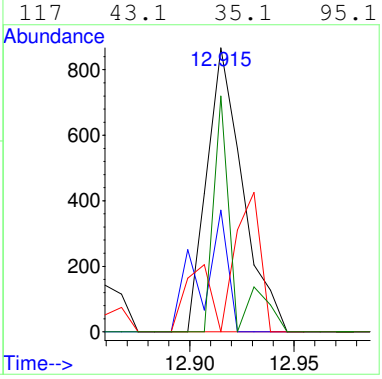


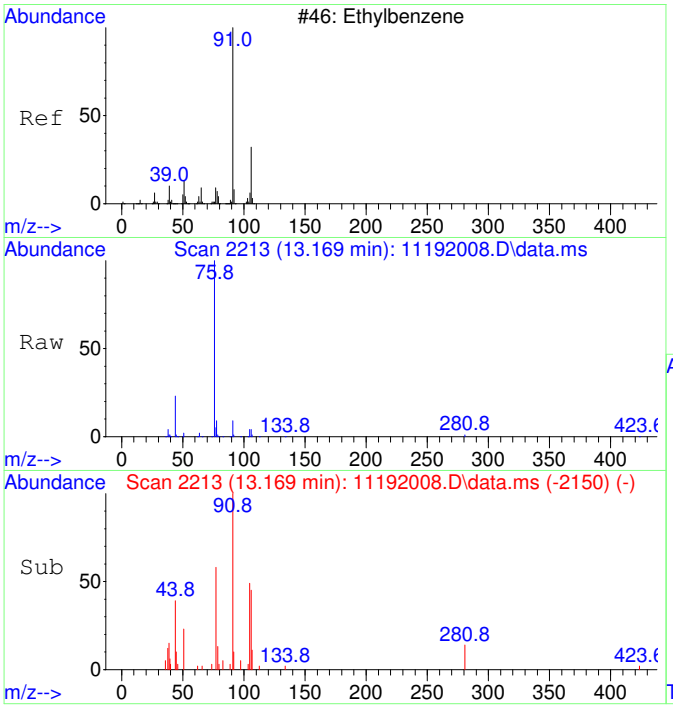


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 59.80 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:131 Resp: 1039

Ion	Ratio	Lower	Upper
131	100		
133	31.6	66.9	126.9#
119	50.7	40.4	100.4
117	43.1	35.1	95.1

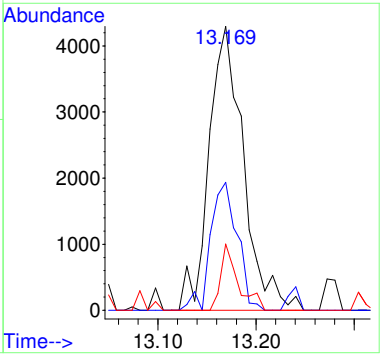


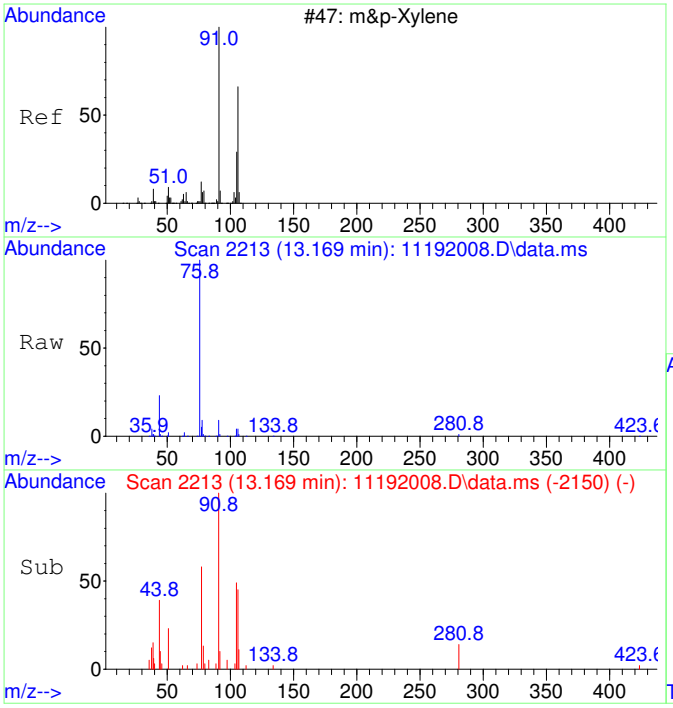


#42
Ethylbenzene SCAN
Concen: 83.74 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 10481

Ion	Ratio	Lower	Upper
91	100		
106	34.9	23.1	83.1
51	11.7	0.0	40.1

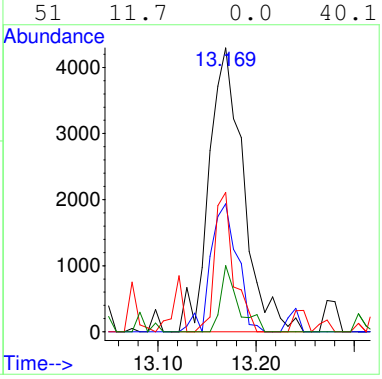


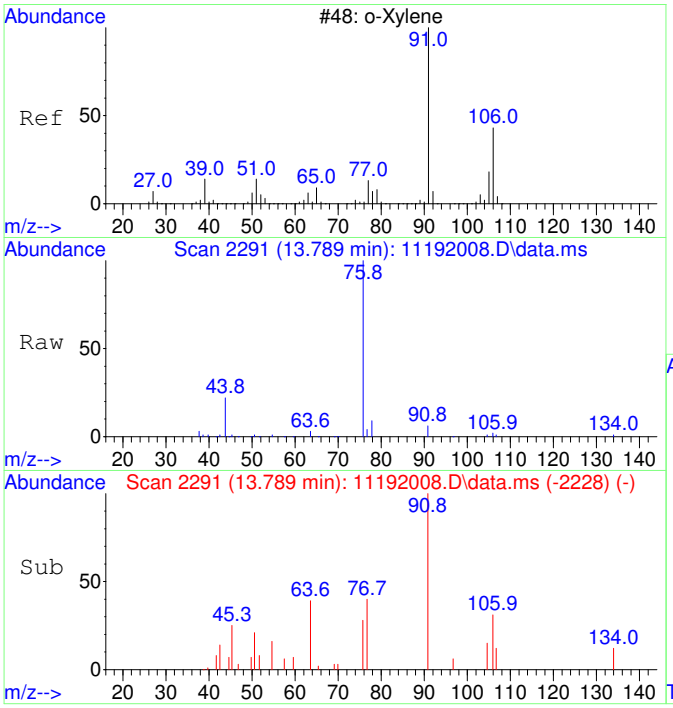


#43
m&p-Xylene SCAN
Concen: 83.74 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 10481

Ion	Ratio	Lower	Upper
91	100		
106	34.9	23.1	83.1
105	27.2	0.0	54.7
51	11.7	0.0	40.1

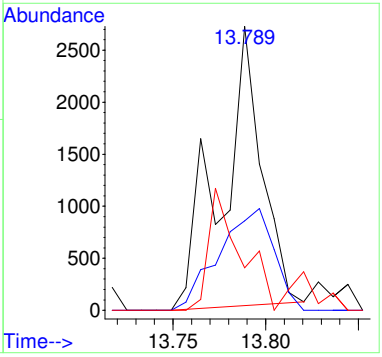


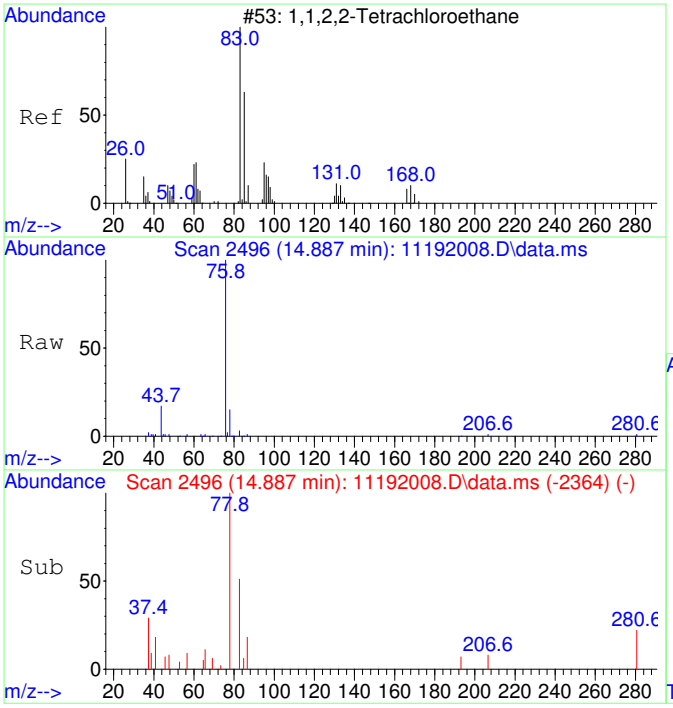


#44
o-Xylene SCAN
Concen: 60.88 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 91 Resp: 4079

Ion	Ratio	Lower	Upper
91	100		
106	49.6	18.0	78.0
105	0.0	0.0	56.6

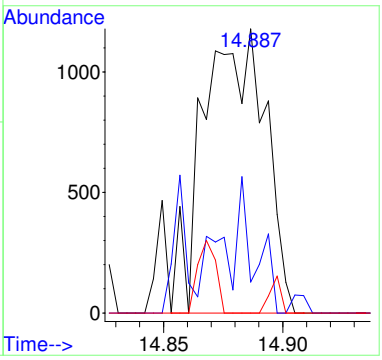


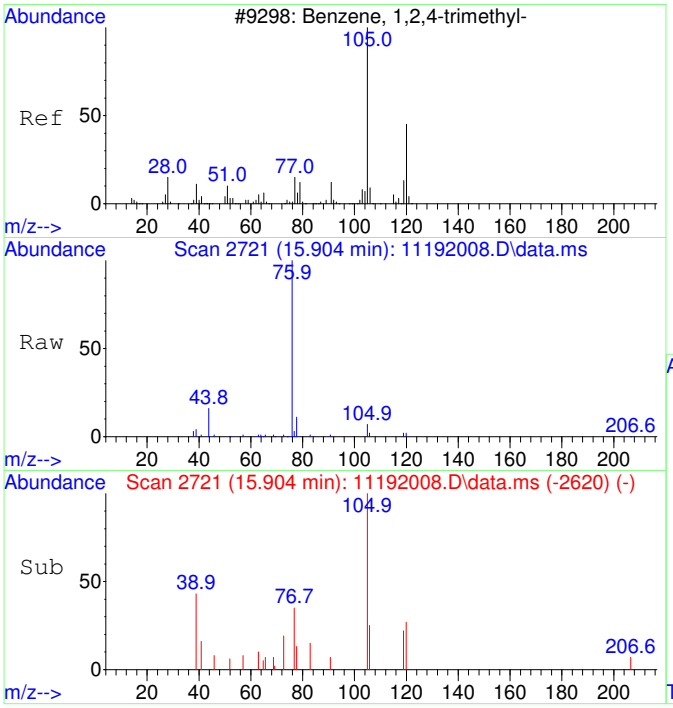


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 65.54 ug/L
RT: 14.887 min Scan# 2496
Delta R.T. 0.015 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion: 83 Resp: 2141

Ion	Ratio	Lower	Upper
83	100		
85	10.2	35.9	95.9#
95	2.3	0.0	47.4

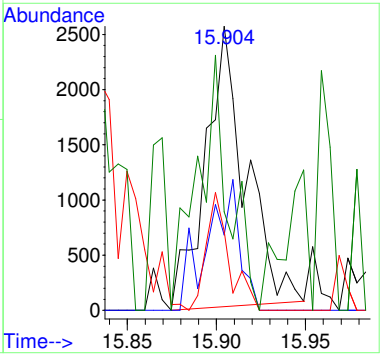


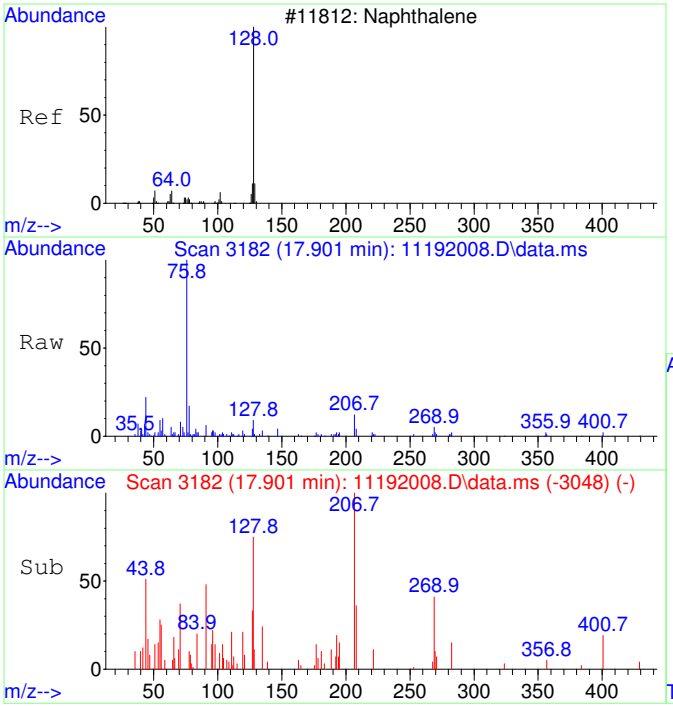


#47
1,2,4-Trimethylbenzene SCAN
Concen: 55.66 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:105 Resp: 4021

Ion	Ratio	Lower	Upper
105	100		
120	36.7	16.9	76.9
119	23.8	0.0	41.9
77	69.8	0.0	42.3#

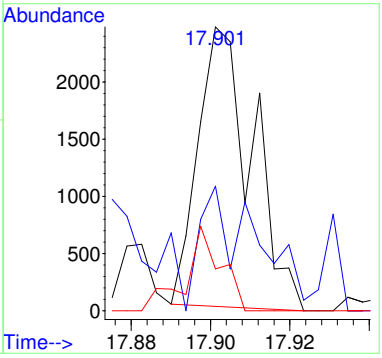




#48
Naphthalene SCAN
Concen: 21.33 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. -0.004 min
Lab File: 11192008.D
Acq: 19 Nov 2020 11:08

Tgt Ion:128 Resp: 2332

Ion	Ratio	Lower	Upper
128	100		
127	42.9	0.0	44.0
129	19.5	0.0	40.8



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 20316C
Client: California Site Cleanup Section 3
Project: MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID: AG5975CV
Calibration: 2008017
Sequence: S20K085

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S20K085-CRL1	1,1-Dichloroethene	50.0	48.2	96	ug/L	60 - 140
	trans-1,2-Dichloroethene	50.0	46.1	92	ug/L	60 - 140
	1,1-Dichloroethane	50.0	46.4	93	ug/L	60 - 140
	cis-1,2-Dichloroethene	50.0	47.9	96	ug/L	60 - 140
	Chloroform	50.0	47.0	94	ug/L	60 - 140
	Trichloroethene	50.0	49.2	98	ug/L	60 - 140
	Tetrachloroethene	50.0	52.3	105	ug/L	60 - 140
	Toluene-d8	50.0	50.0	100	ug/L	60 - 140

QLS REPORT

Instrument Name: AG5975C
Sample Name: S20K085-CRL1
Misc Info: 2030073 0.05 mg/L
Date Acquired: 11/19/20 9:33
QLast Update: Mon Nov 16 10:20:51 2020
Operator: TD

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.970	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.086	50.0	48.24	96%	60	140	pass
3)	trans-1,2-Dichloroethene	4.343	50.0	46.07	92%	60	140	pass
4)	1,1-Dichloroethane	5.066	50.0	46.37	93%	60	140	pass
5)	cis-1,2-Dichloroethene	6.074	50.0	47.93	96%	60	140	pass
6)	Chloroform	6.639	50.0	47.02	94%	60	140	pass
7)	1,1,1-Trichloroethane	6.907	50.0	45.57	91%	60	140	pass
8)	Carbon tetrachloride	7.175	50.0	45.59	91%	60	140	pass
10)	1,2-Dichloroethane	7.540	50.0	44.75	90%	60	140	pass
11)	Trichloroethene	8.564	50.0	49.21	98%	60	140	pass
12)	Toluene-d8	10.477	50.0	50.00	100%	60	140	pass
13)	Toluene	10.571	50.0	50.88	102%	60	140	pass
14)	1,1,2-Trichloroethane	11.222	50.0	49.73	99%	60	140	pass
15)	Tetrachloroethene	11.432	50.0	52.31	105%	60	140	pass
16)	Chlorobenzene	12.765	50.0	53.89	108%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.916	50.0	51.59	103%	60	140	pass
18)	Ethylbenzene	12.972	50.0	53.73	107%	60	140	pass
19)	m&p-Xylene	13.163	100.0	108.49	108%	60	140	pass
20)	o-Xylene	13.782	50.0	53.07	106%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.877	50.0	54.25	108%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.345	50.0	57.86	116%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.901	50.0	60.07	120%	60	140	pass
24)	Naphthalene	17.903	50.0	59.76	120%	60	140	pass

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192004.D
Acq On : 19 Nov 2020 9:33
InstName : AG5975C
Operator : TD
Sample : S20K085-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 09:52:19 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

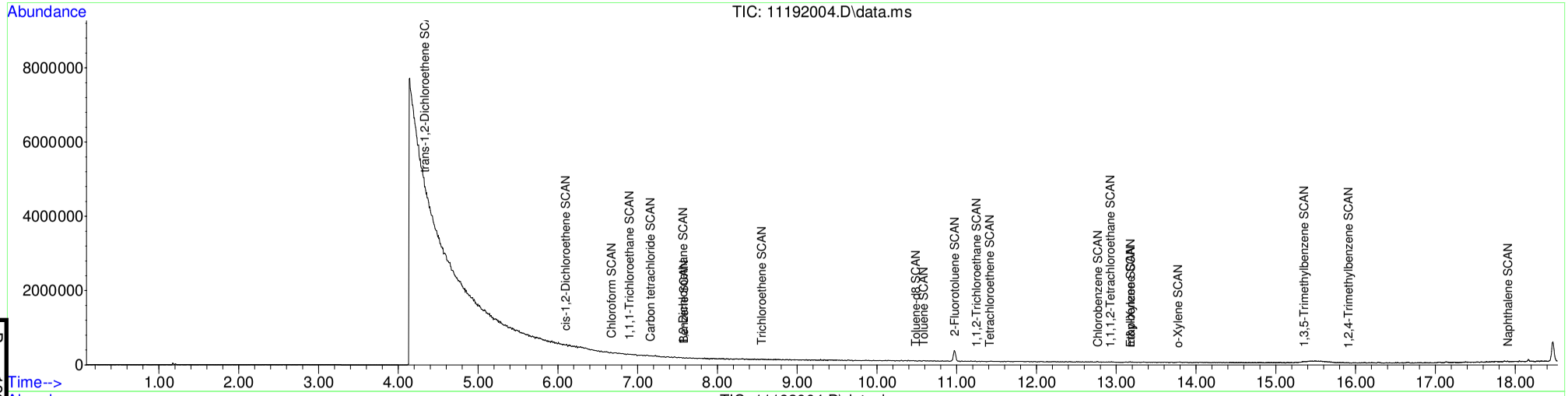
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	507664	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	4969	50.00	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	1.00%#		
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.082	61	1434	70.74	ug/L	66
3] trans-1,2-Dichloroethene	4.356	61	1079	46.07	ug/L	52
4] 1,1-Dichloroethane	5.072	63	1352	46.37	ug/L	62
5] cis-1,2-Dichloroethene	6.081	61	1475	47.93	ug/L	97
6] Chloroform	6.652	83	1481	47.02	ug/L	97
7] 1,1,1-Trichloroethane	6.907	97	1559	45.57	ug/L	97
8] Carbon tetrachloride	7.175	117	1468	45.59	ug/L	100
9] Benzene	7.503	78	4370	50.66	ug/L #	1
10] 1,2-Dichloroethane	7.540	62	1378	44.75	ug/L #	1
11] Trichloroethene	8.569	130	1278	49.21	ug/L	91
13] Toluene	10.582	91	6447	50.88	ug/L	97
14] 1,1,2-Trichloroethane	11.232	97	1373	49.73	ug/L	92
15] Tetrachloroethene	11.432	166	1918	52.31	ug/L	99
16] Chlorobenzene	12.765	112	4889	53.89	ug/L	92
17] 1,1,1,2-Tetrachloroethane	12.916	131	1677	51.59	ug/L	98
18] Ethylbenzene	12.972	91	8286	53.73	ug/L	95
19] m&p-Xylene	13.162	91	13077	108.49	ug/L	95
20] o-Xylene	13.782	91	6834	53.07	ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.877	83	3096	54.25	ug/L	97
22] 1,3,5-Trimethylbenzene	15.350	105	7930	57.86	ug/L	95
23] 1,2,4-Trimethylbenzene	15.906	105	8552	60.07	ug/L	92
24] Naphthalene	17.904	128	13448	59.76	ug/L	97
25) 2-Fluorotoluene SCAN	10.969	109	237124	4791.56	ug/L	100
27) trans-1,2-Dichloroethe...	4.328	61	1194	91.81	ug/L #	17
29) cis-1,2-Dichloroethene...	6.093	61	499	30.94	ug/L #	1
30) Chloroform SCAN	6.675	83	558	31.90	ug/L #	27
31) 1,1,1-Trichloroethane ...	6.894	97	481	30.18	ug/L #	19
32) Carbon tetrachloride SCAN	7.161	117	429	25.80	ug/L #	13
33) Benzene SCAN	7.575	78	8401	191.43	ug/L	92
34) 1,2-Dichloroethane SCAN	7.563	62	914	56.40	ug/L #	40
35) Trichloroethene SCAN	8.557	130	378	31.34	ug/L #	40
36) Toluene-d8 SCAN	10.486	98	1459	30.15	ug/L #	29
37) Toluene SCAN	10.580	91	3645	58.81	ug/L #	70
38) 1,1,2-Trichloroethane ...	11.242	97	987	70.95	ug/L	89
39) Tetrachloroethene SCAN	11.409	166	658	44.19	ug/L #	12
40) Chlorobenzene SCAN	12.764	112	4308	101.72	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.923	131	997	63.61	ug/L #	3
42) Ethylbenzene SCAN	13.177	91	5801	51.37	ug/L	87
43) m&p-Xylene SCAN	13.177	91	5801	51.37	ug/L	84
44) o-Xylene SCAN	13.773	91	4118	68.13	ug/L	77
46) 1,3,5-Trimethylbenzene...	15.348	105	3922	61.57	ug/L	89
47) 1,2,4-Trimethylbenzene...	15.904	105	4280	65.67	ug/L #	80
48) Naphthalene SCAN	17.906	128	5951	60.34	ug/L	76

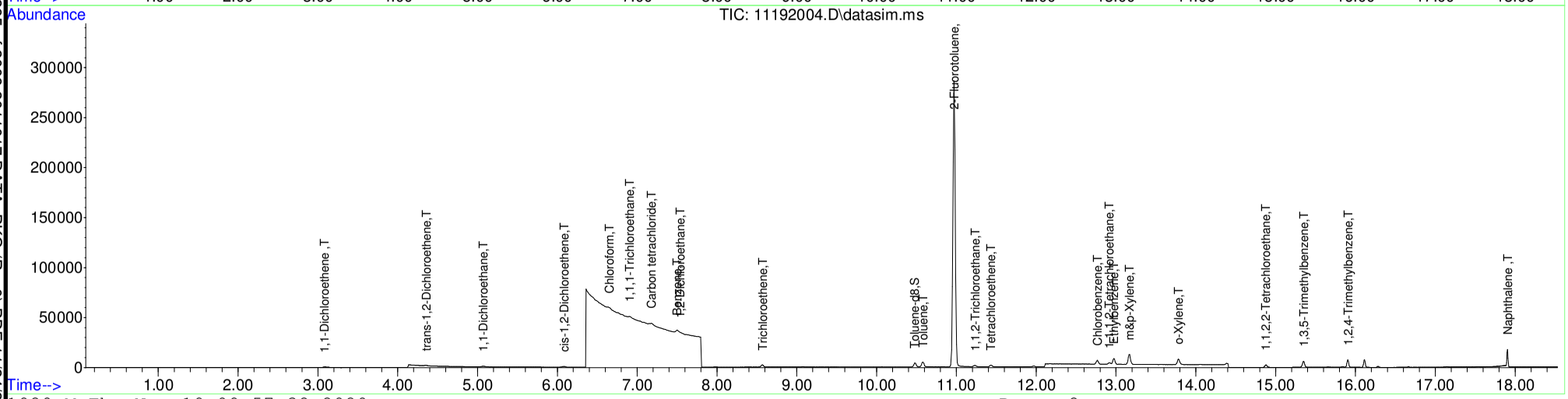
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192004.D
Acq On : 19 Nov 2020 9:33
InstName : AG5975C
Operator : TD
Sample : S20K085-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 09:52:19 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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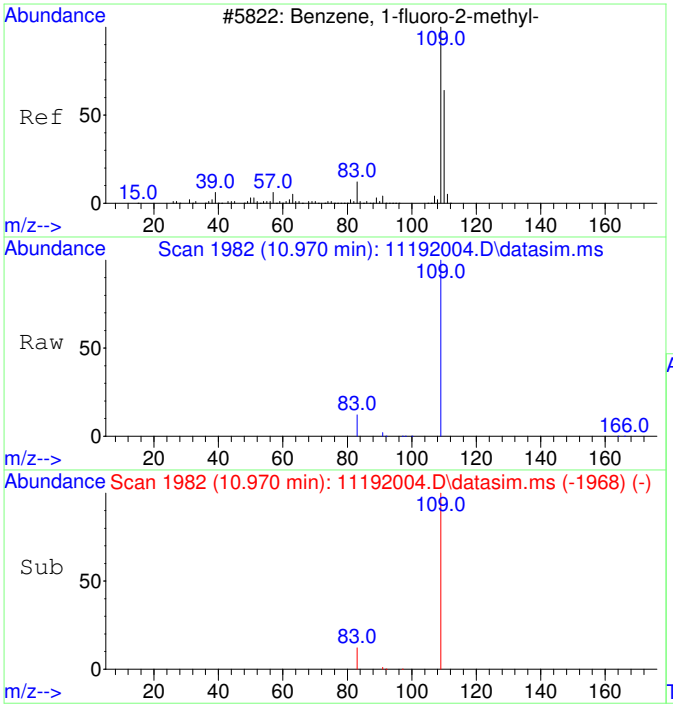
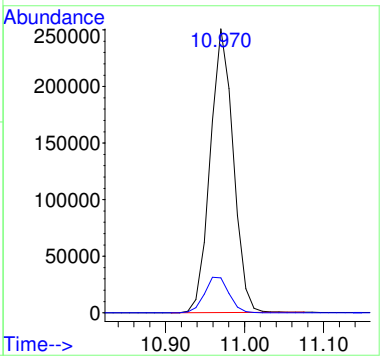
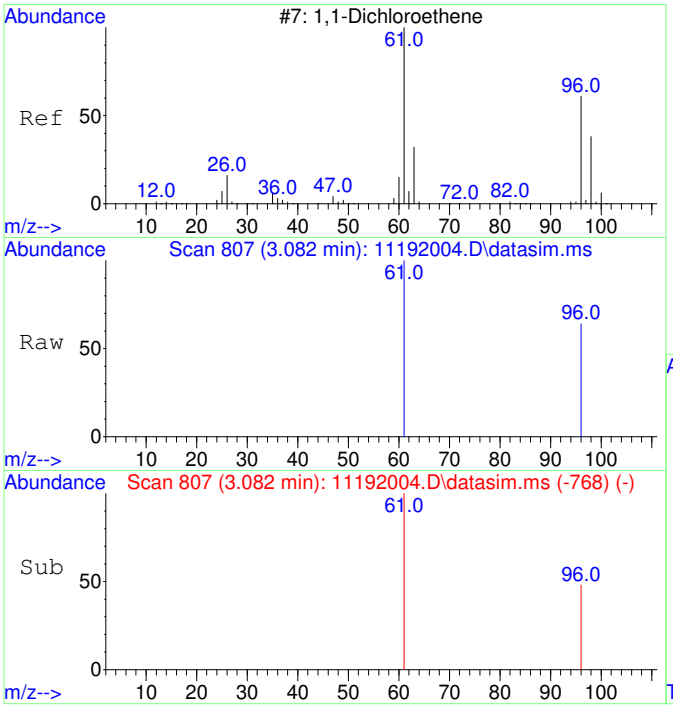


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:109 Resp: 507664

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

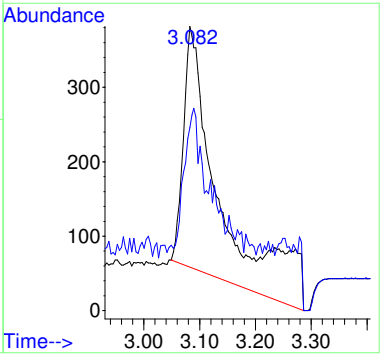




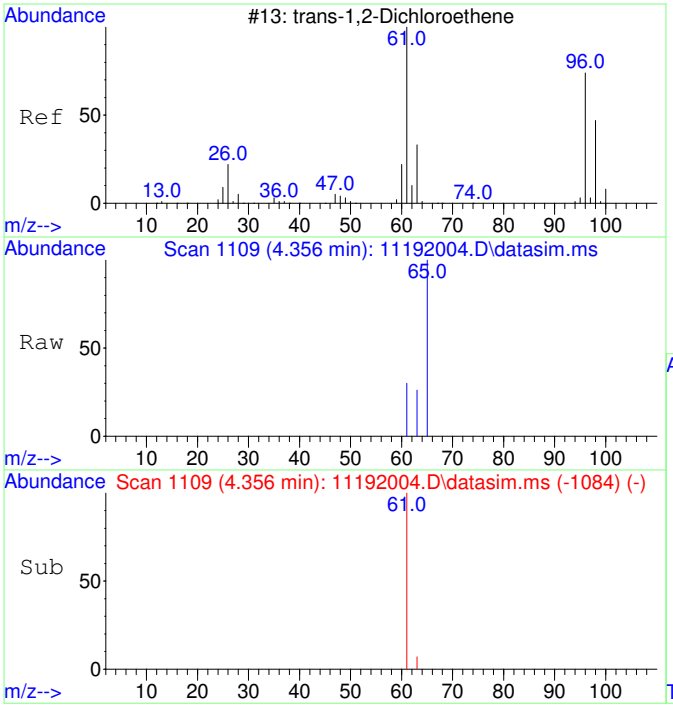
#2
1,1-Dichloroethene
Concen: 70.74 ug/L
RT: 3.082 min Scan# 807
Delta R.T. -0.004 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 1434

Ion	Ratio	Lower	Upper
61	100		
96	39.7	37.2	97.2



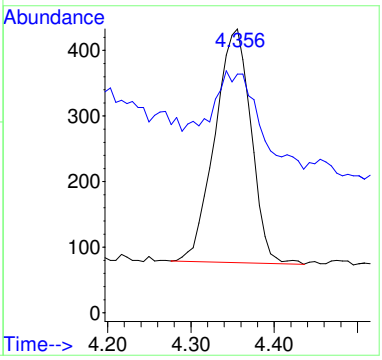
Before MI:
IMPROPER
BASELINE

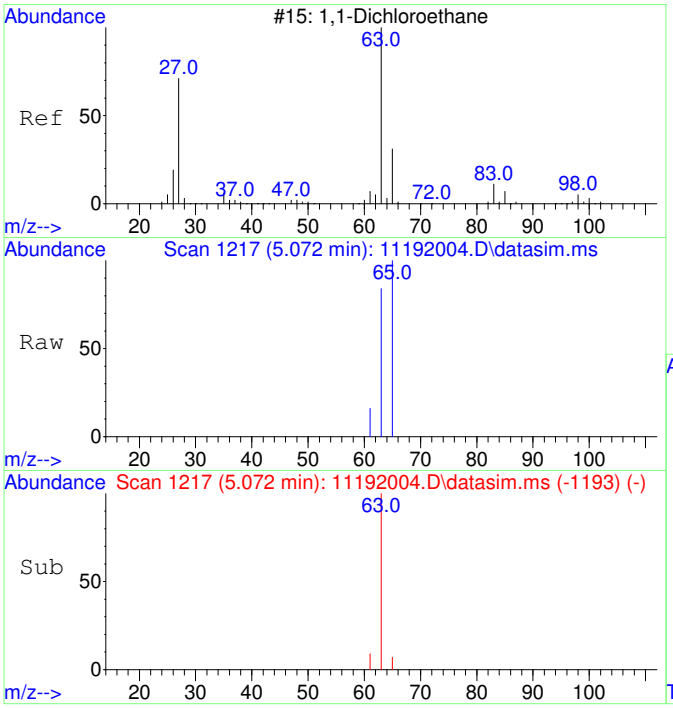


#3
trans-1,2-Dichloroethene
Concen: 46.07 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 1079

Ion	Ratio	Lower	Upper
61	100		
63	59.4	2.4	62.4

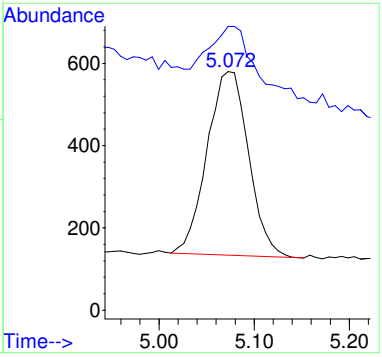


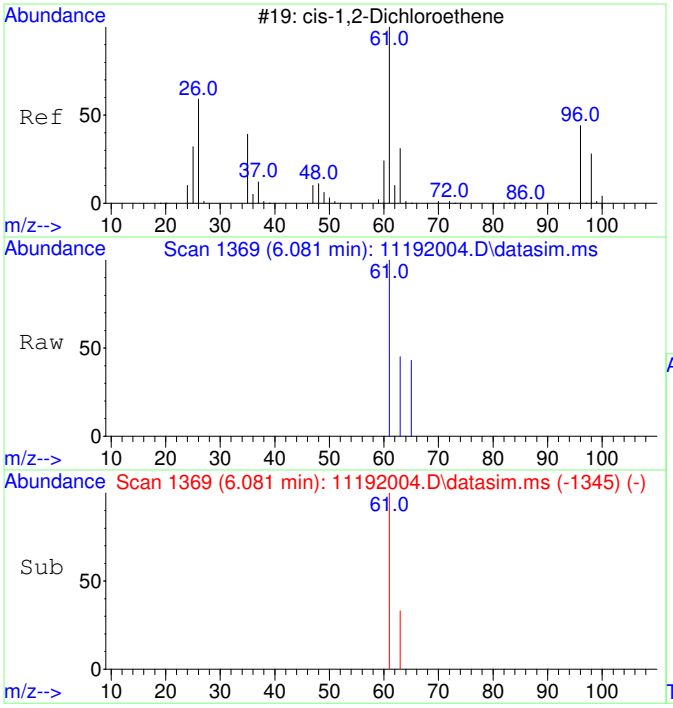


#4
1,1-Dichloroethane
Concen: 46.37 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 63 Resp: 1352

Ion	Ratio	Lower	Upper
63	100		
65	52.9	1.8	61.8

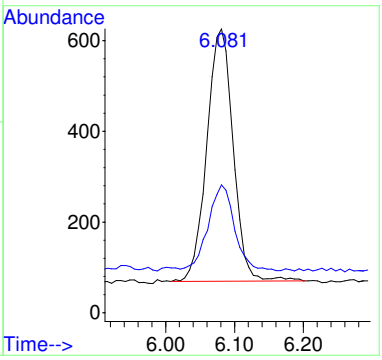


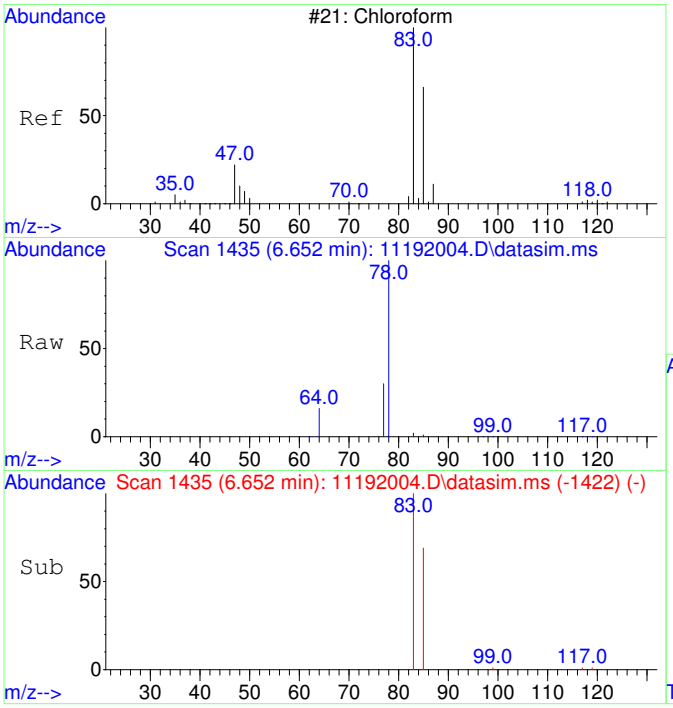


#5
cis-1,2-Dichloroethene
Concen: 47.93 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 1475

Ion	Ratio	Lower	Upper
61	100		
63	34.0	2.5	62.5

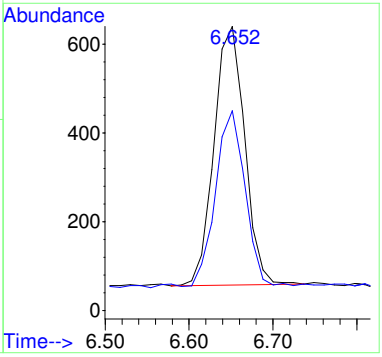


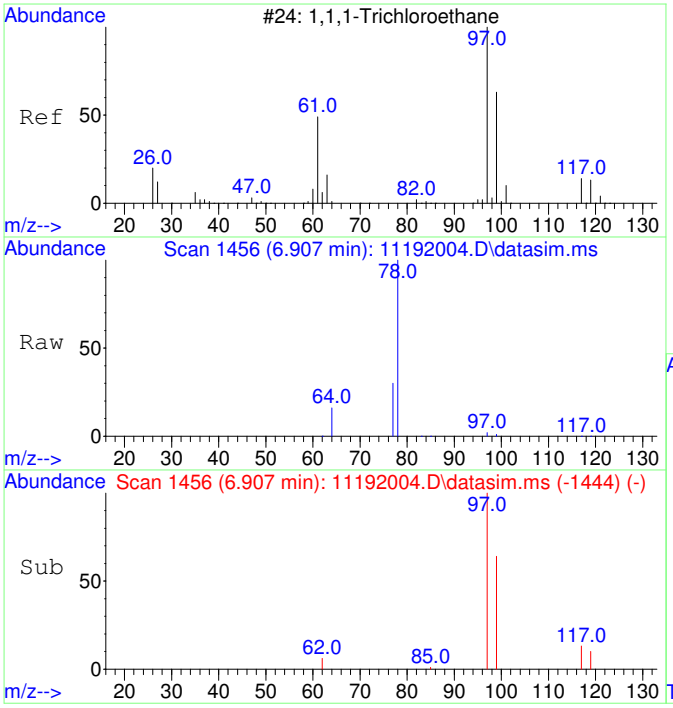


#6
Chloroform
Concen: 47.02 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 83 Resp: 1481

Ion	Ratio	Lower	Upper
83	100		
85	67.7	35.1	95.1

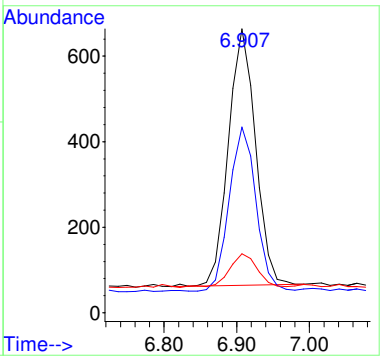


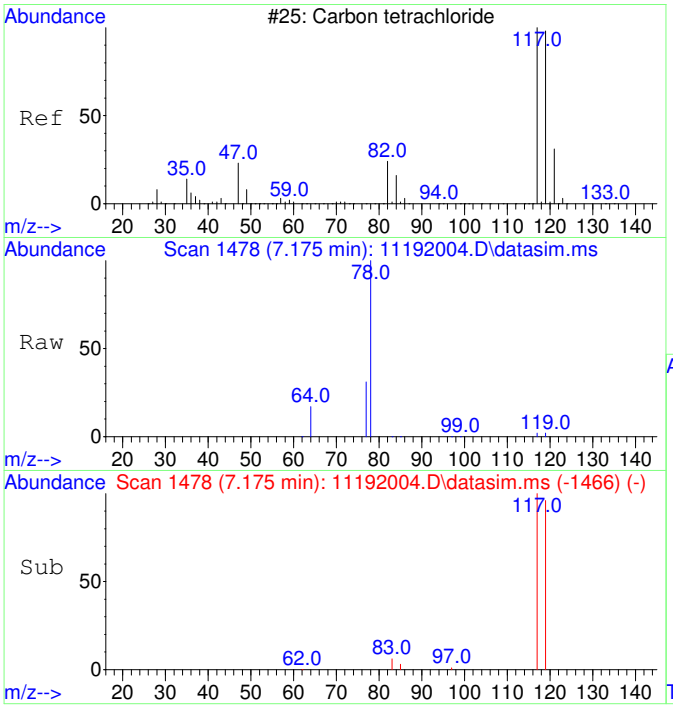


#7
1,1,1-Trichloroethane
Concen: 45.57 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 1559

Ion	Ratio	Lower	Upper
97	100		
99	62.3	34.6	94.6
117	13.9	0.0	43.2

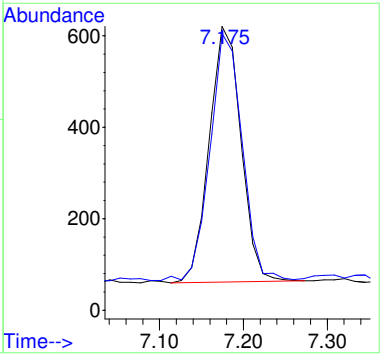


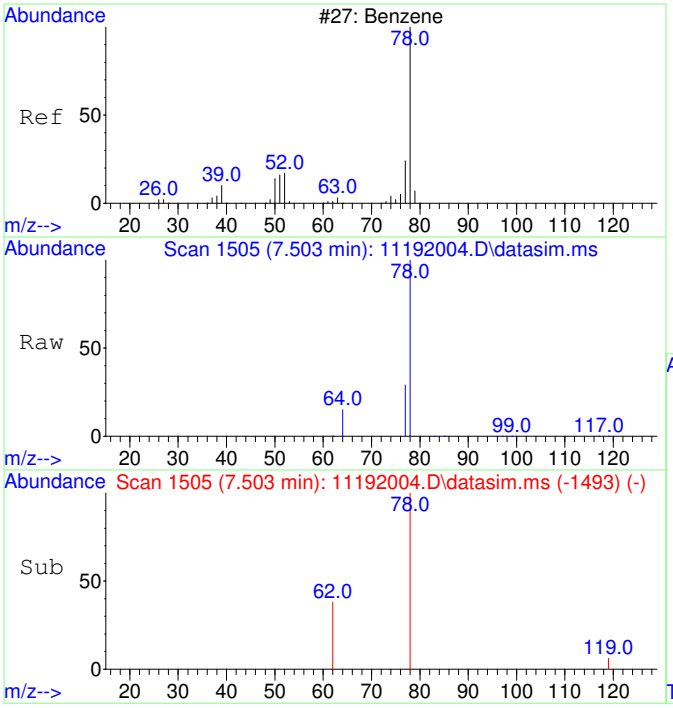


#8
Carbon tetrachloride
Concen: 45.59 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:117 Resp: 1468

Ion	Ratio	Lower	Upper
117	100		
119	96.7	66.4	126.4

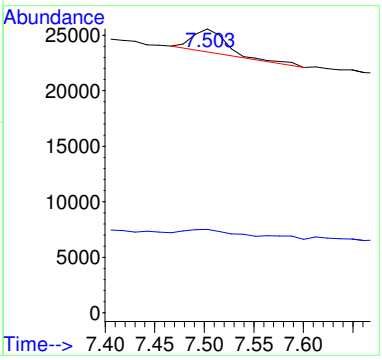


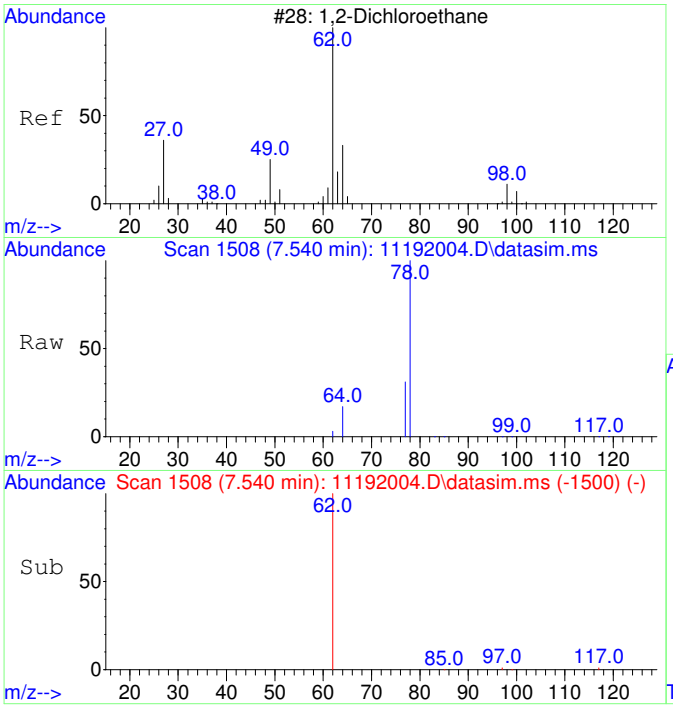


#9
Benzene
Concen: 50.66 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 78 Resp: 4370

Ion	Ratio	Lower	Upper
78	100		
77	89.0	0.0	53.2#

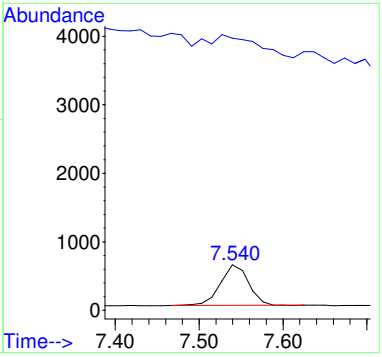


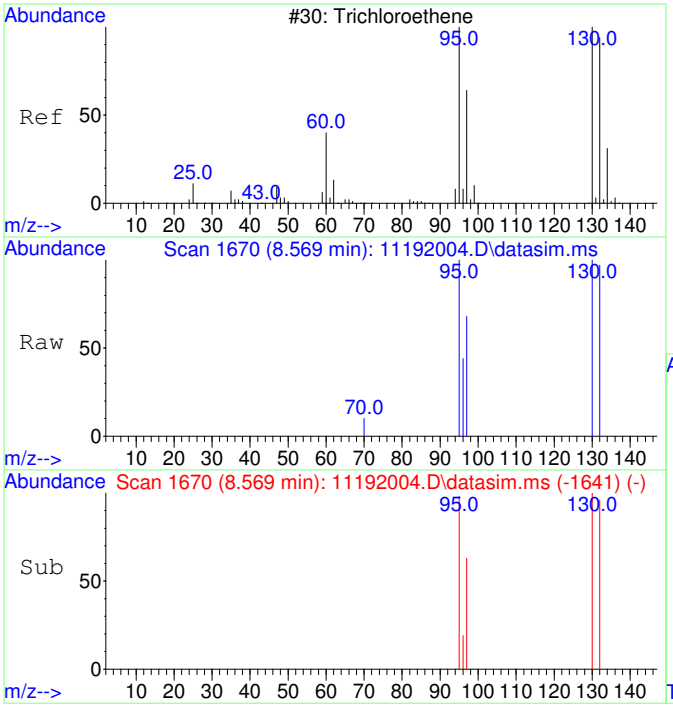


#10
1,2-Dichloroethane
Concen: 44.75 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 62 Resp: 1378

Ion	Ratio	Lower	Upper
62	100		
64	99.3	2.3	62.3#

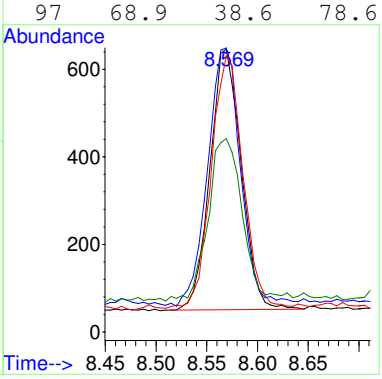


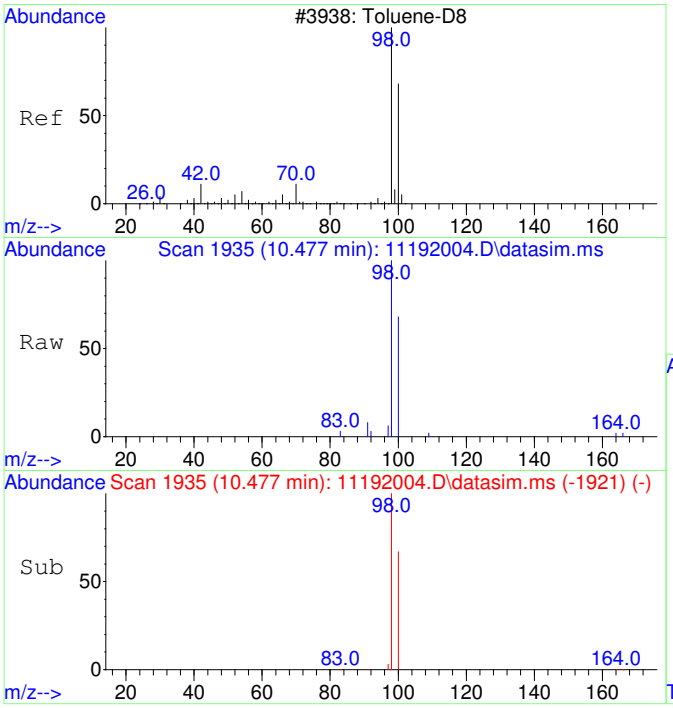


#11
Trichloroethene
Concen: 49.21 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:130 Resp: 1278

Ion	Ratio	Lower	Upper
130	100		
95	103.8	60.7	120.7
132	96.6	76.0	116.0
97	68.9	38.6	78.6

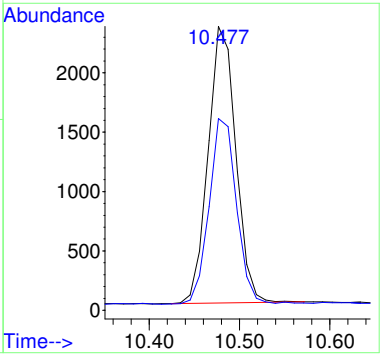


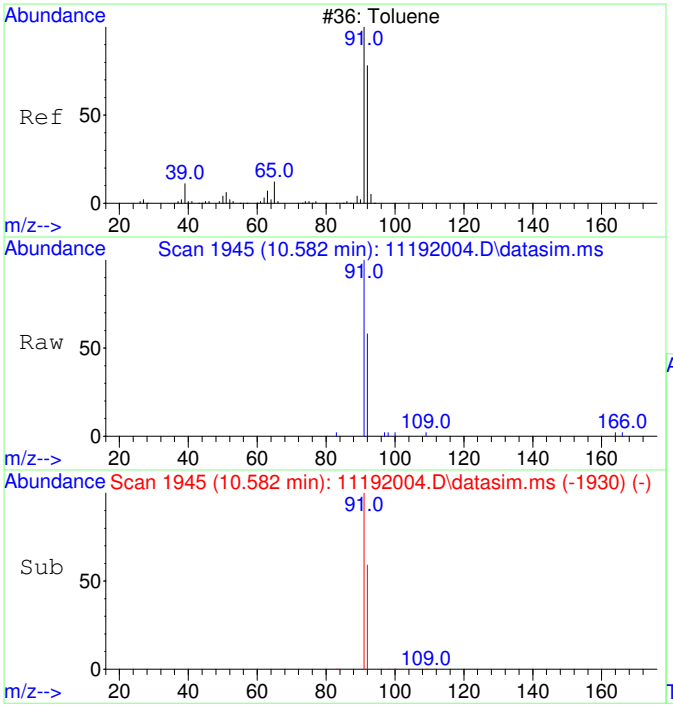


#12
Toluene-d8
Concen: 50.00 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 98 Resp: 4969

Ion	Ratio	Lower	Upper
98	100		
100	65.8	37.1	97.1

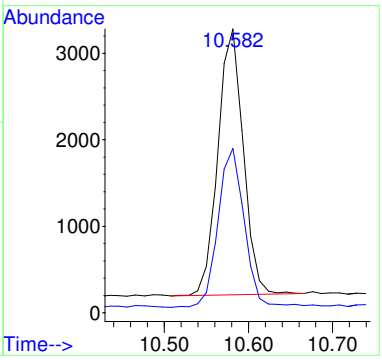


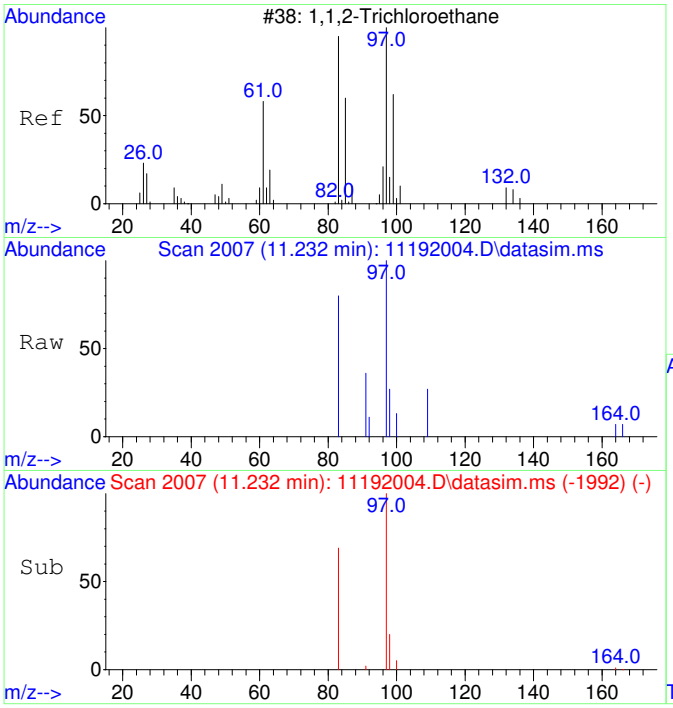


#13
Toluene
Concen: 50.88 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 6447

Ion	Ratio	Lower	Upper
91	100		
92	61.9	29.9	89.9

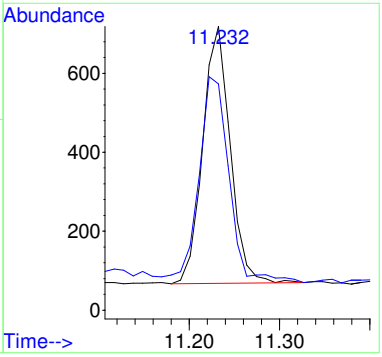


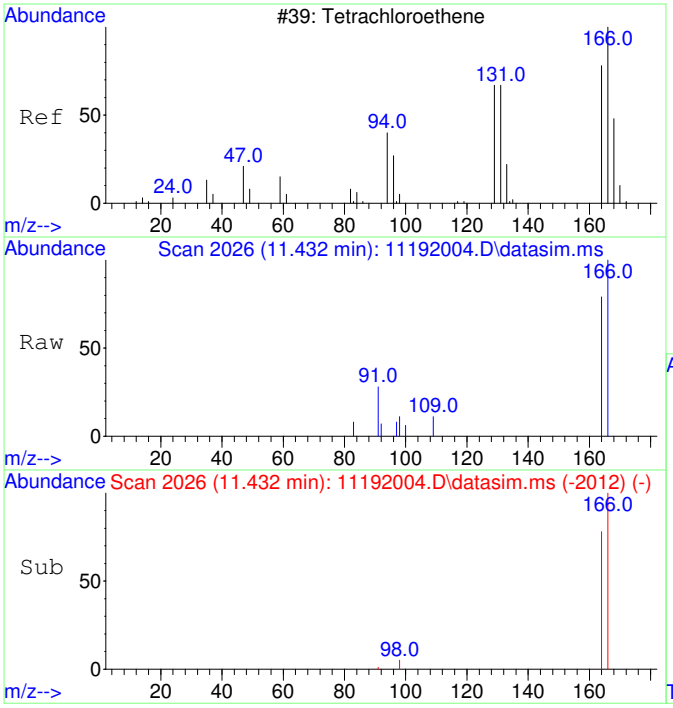


#14
1,1,2-Trichloroethane
Concen: 49.73 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 1373

Ion	Ratio	Lower	Upper
97	100		
83	88.0	51.2	111.2

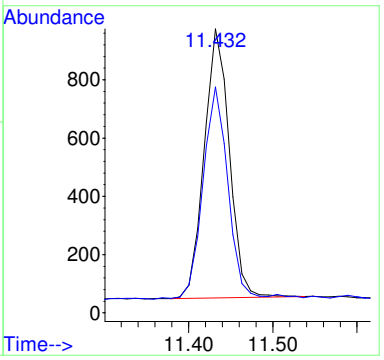


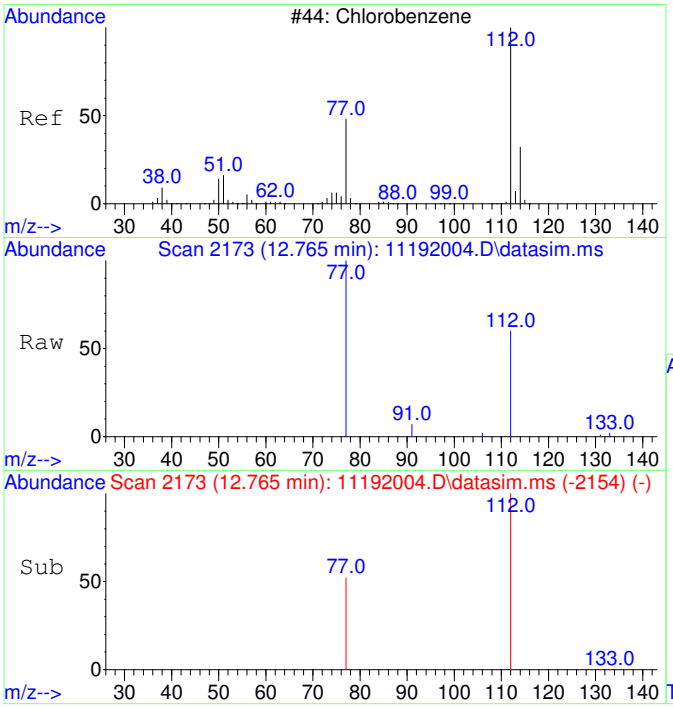


#15
Tetrachloroethene
Concen: 52.31 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:166 Resp: 1918

Ion	Ratio	Lower	Upper
166	100		
164	78.3	47.8	107.8

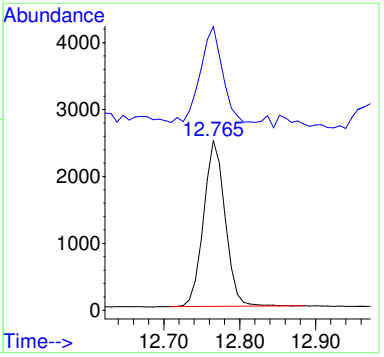


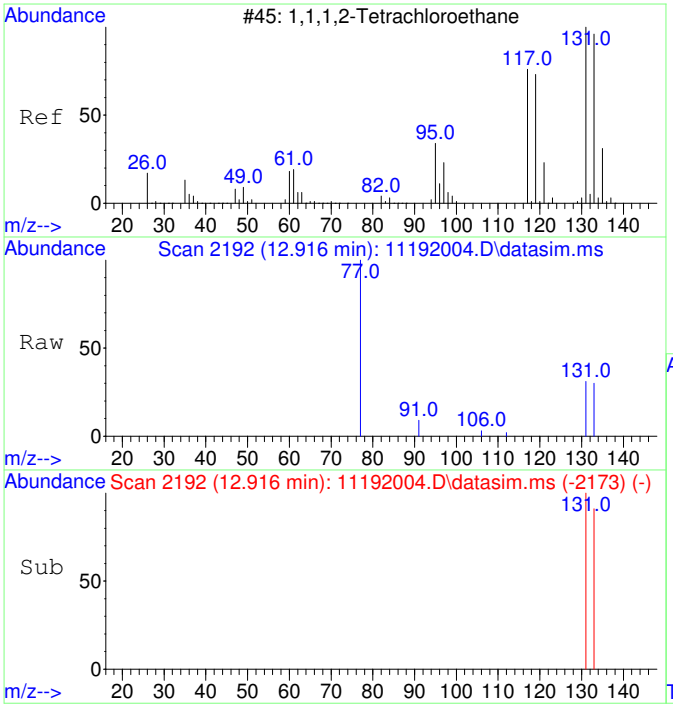


#16
Chlorobenzene
Concen: 53.89 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:112 Resp: 4889

Ion	Ratio	Lower	Upper
112	100		
77	59.0	23.6	83.6

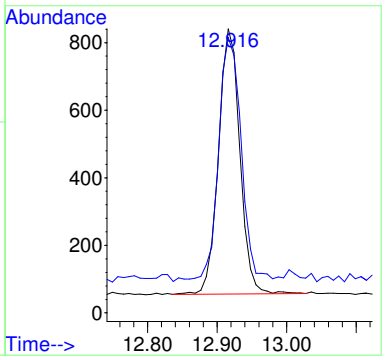


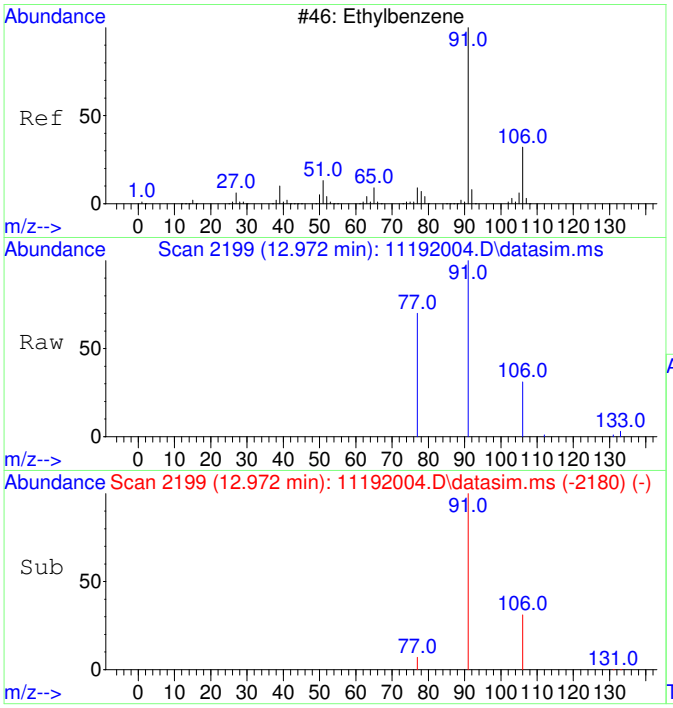


#17
1,1,1,2-Tetrachloroethane
Concen: 51.59 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:131 Resp: 1677

Ion	Ratio	Lower	Upper
131	100		
133	94.1	66.3	126.3

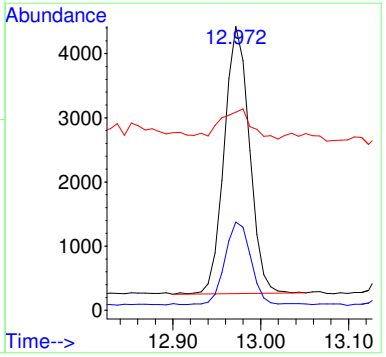


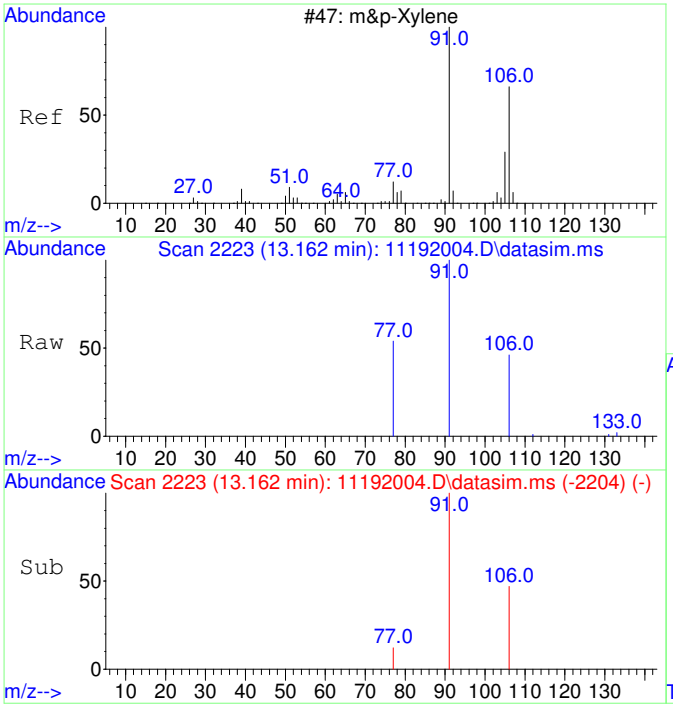


#18
Ethylbenzene
Concen: 53.73 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 8286

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	13.7	0.0	38.2

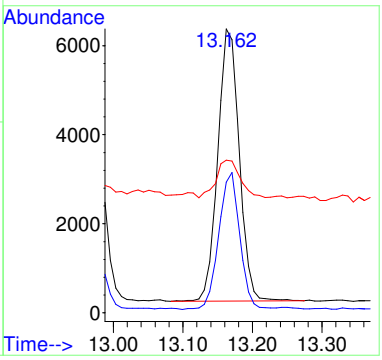


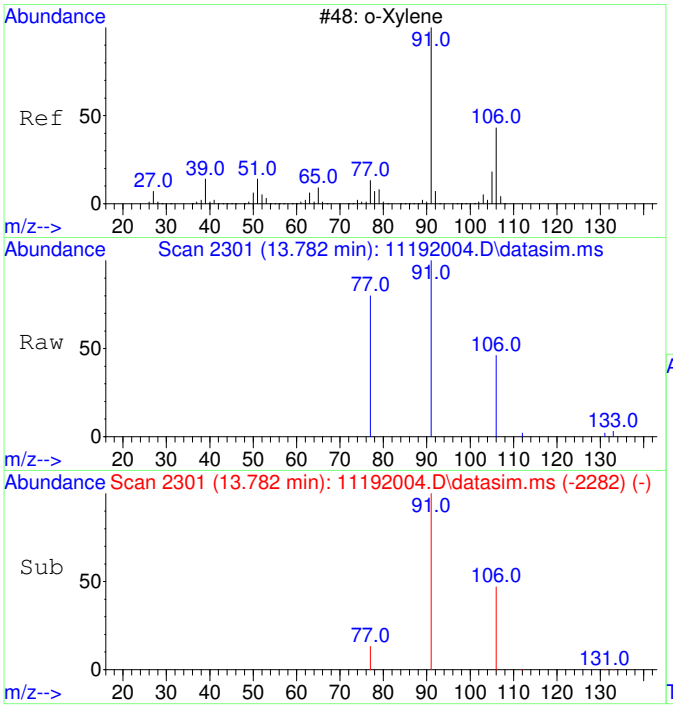


#19
m&p-Xylene
Concen: 108.49 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 13077

Ion	Ratio	Lower	Upper
91	100		
106	49.4	22.2	82.2
77	15.3	0.0	42.4

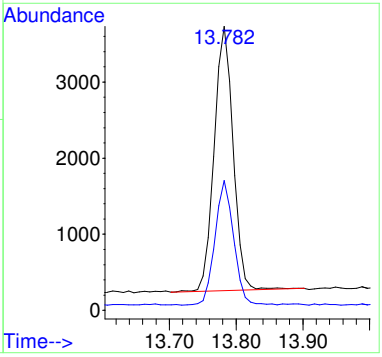


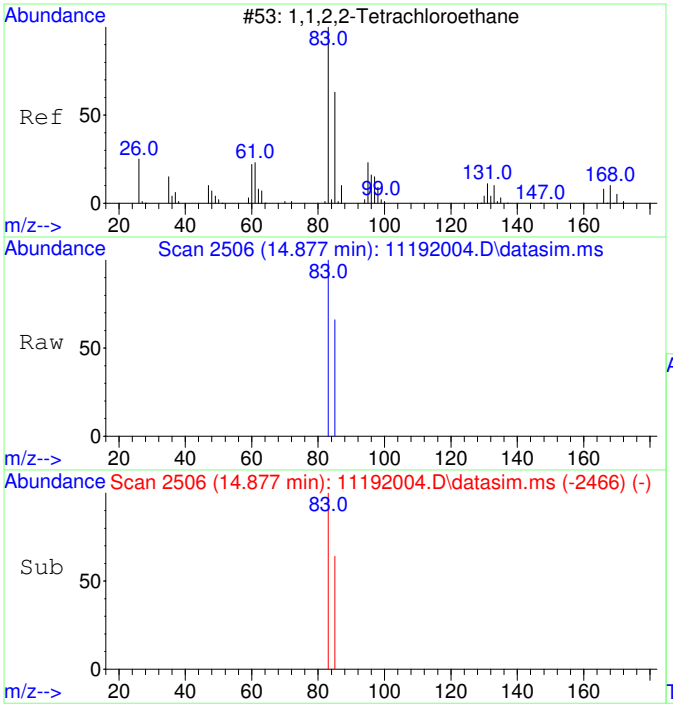


#20
o-Xylene
Concen: 53.07 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 6834

Ion	Ratio	Lower	Upper
91	100		
106	46.5	19.2	79.2

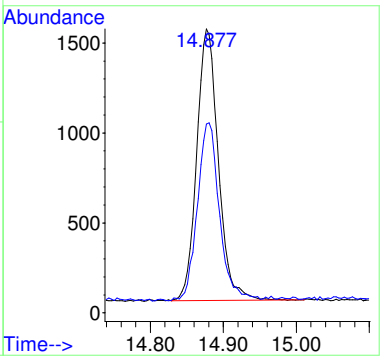


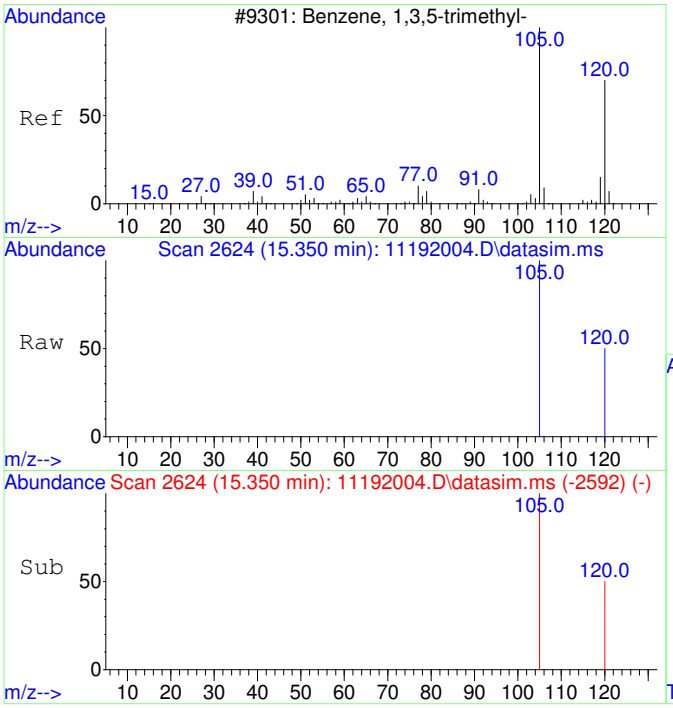


#21
1,1,2,2-Tetrachloroethane
Concen: 54.25 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 83 Resp: 3096

Ion	Ratio	Lower	Upper
83	100		
85	67.3	34.8	94.8

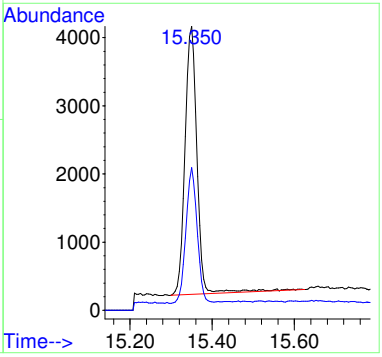


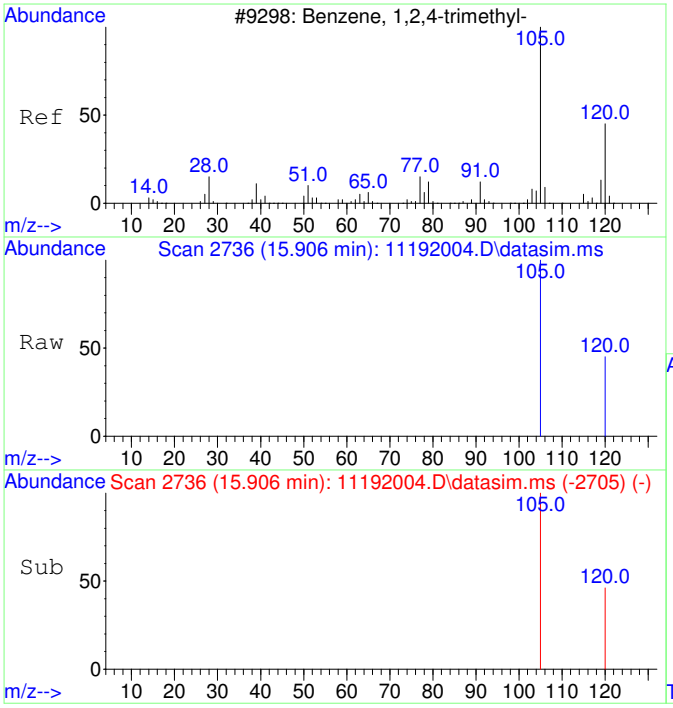


#22
1,3,5-Trimethylbenzene
Concen: 57.86 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 7930

Ion	Ratio	Lower	Upper
105	100		
120	47.8	21.1	81.1

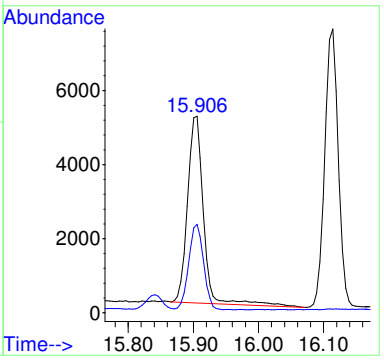


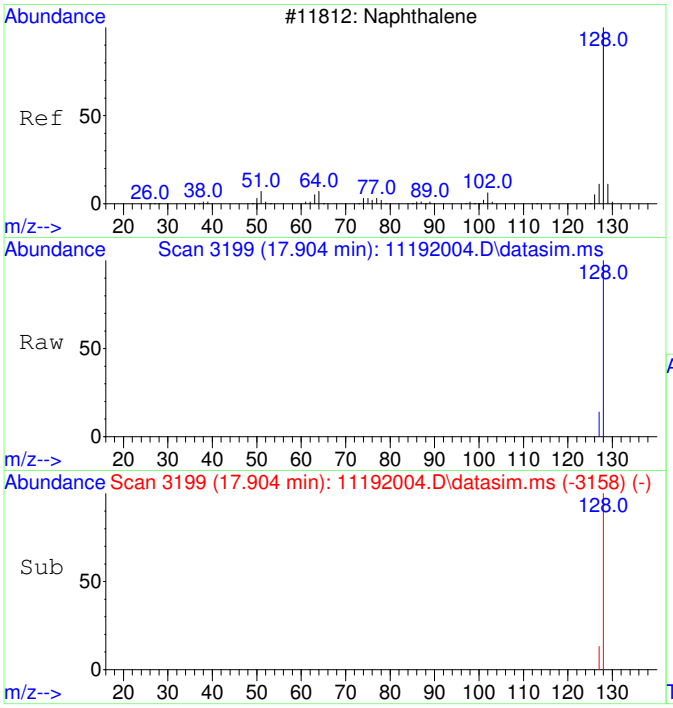


#23
1,2,4-Trimethylbenzene
Concen: 60.07 ug/L
RT: 15.906 min Scan# 2736
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 8552

Ion	Ratio	Lower	Upper
105	100		
120	41.8	17.2	77.2

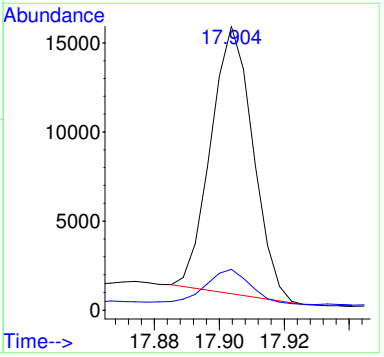


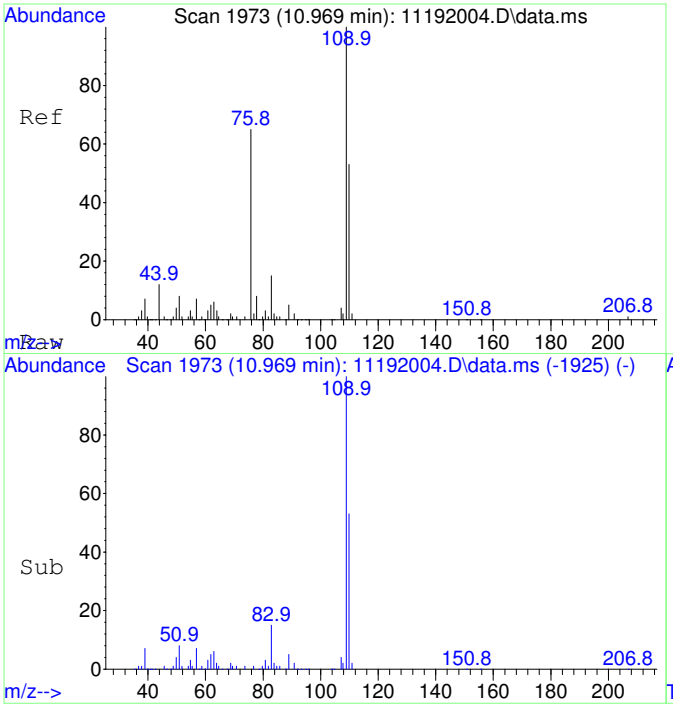


#24
Naphthalene
Concen: 59.76 ug/L
RT: 17.904 min Scan# 3199
Delta R.T. 0.001 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:128 Resp: 13448

Ion	Ratio	Lower	Upper
128	100		
127	13.5	0.0	42.5

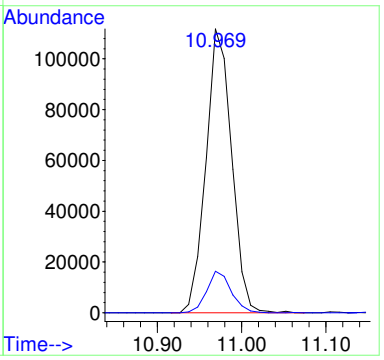


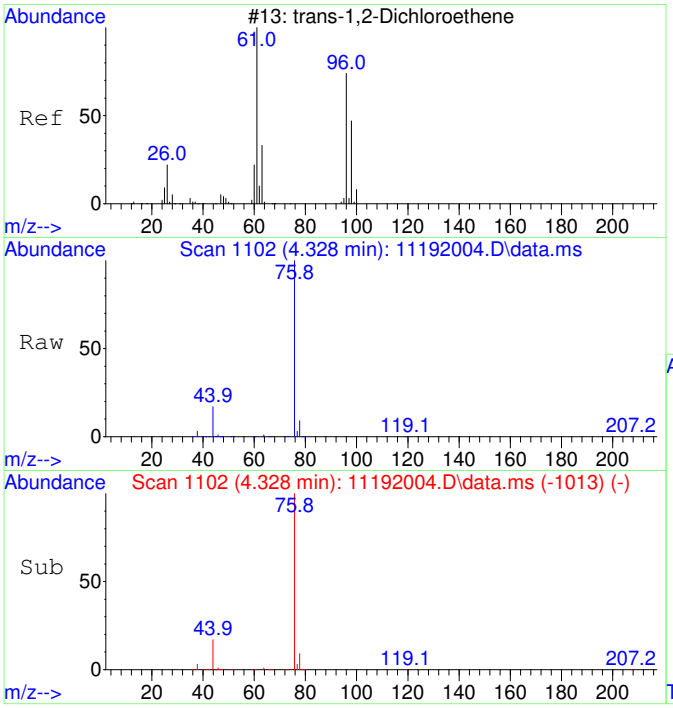


#25
2-Fluorotoluene SCAN
Concen: 4791.56 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:109 Resp: 237124

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	43.8

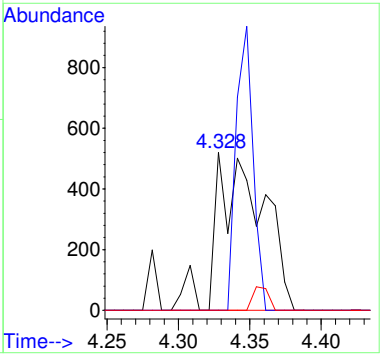


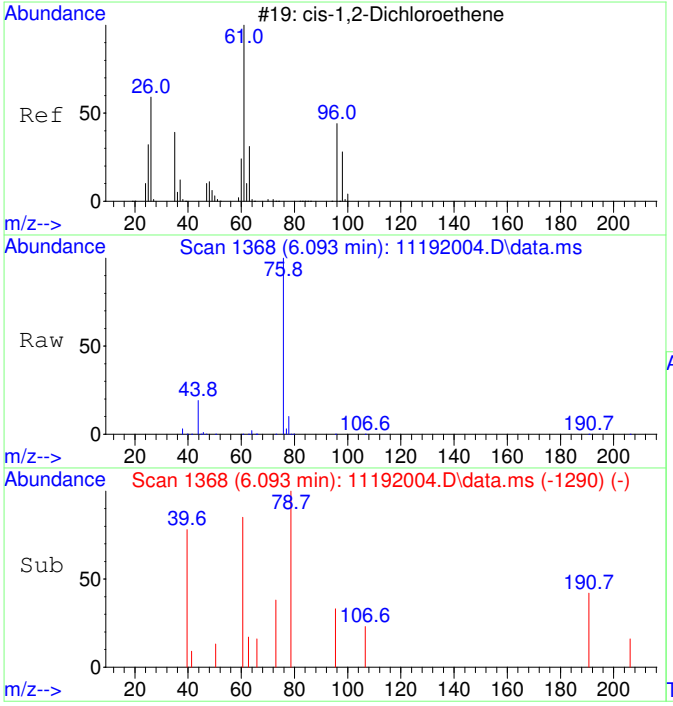


#27
trans-1,2-Dichloroethene SCAN
Concen: 91.81 ug/L
RT: 4.328 min Scan# 1102
Delta R.T. -0.020 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 1194

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	0.0	20.5	80.5#

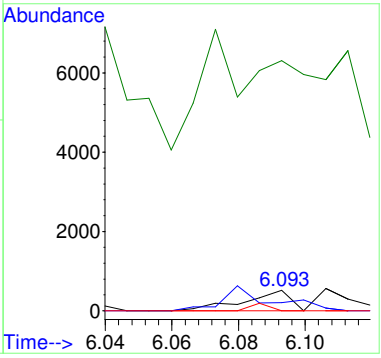


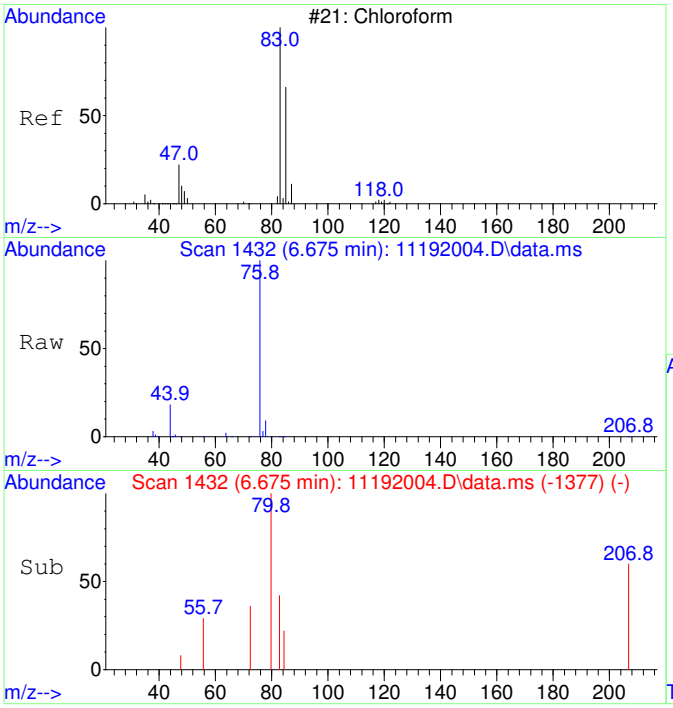


#29
cis-1,2-Dichloroethene SCAN
Concen: 30.94 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 499

Ion	Ratio	Lower	Upper
61	100		
96	126.1	39.9	99.9#
98	15.2	13.5	73.5
64	1188.2	4.5	64.5#

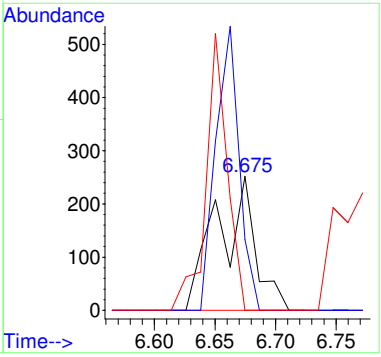


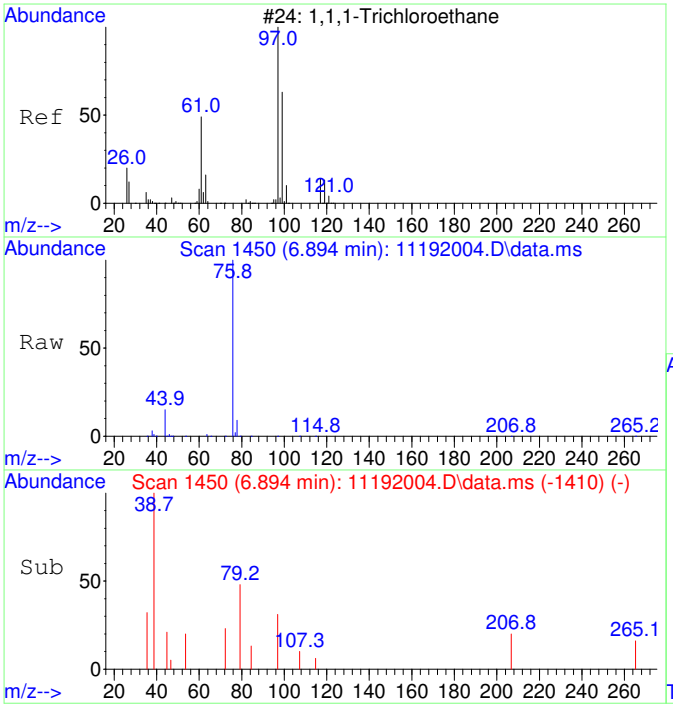


#30
Chloroform SCAN
Concen: 31.90 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.024 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 83 Resp: 558

Ion	Ratio	Lower	Upper
83	100		
85	128.9	34.6	94.6#
47	0.0	0.0	53.4

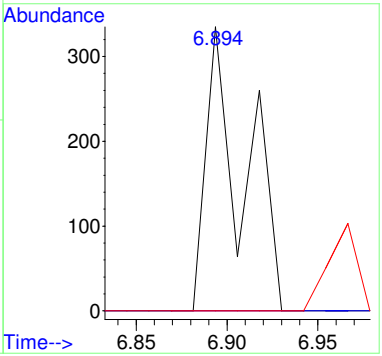


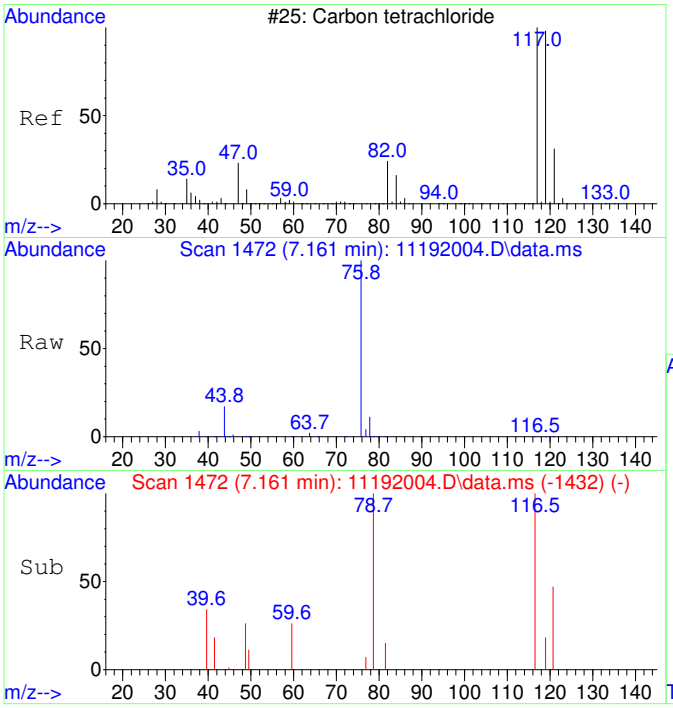


#31
1,1,1-Trichloroethane SCAN
Concen: 30.18 ug/L
RT: 6.894 min Scan# 1450
Delta R.T. -0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 481

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	0.0	18.0	78.0#

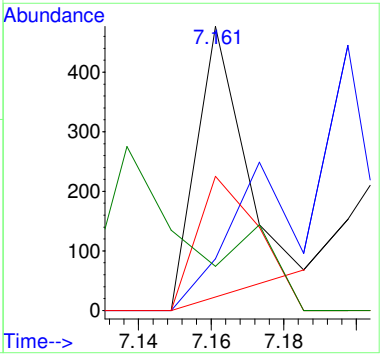


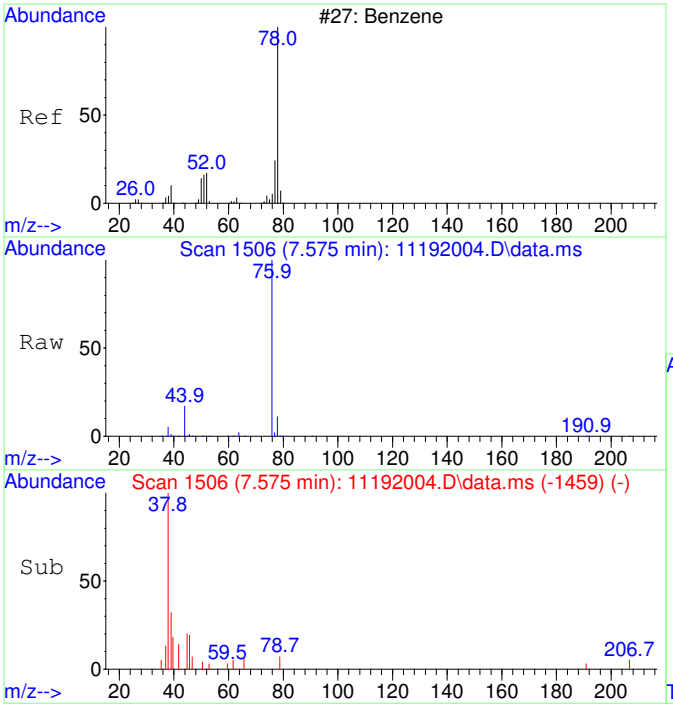


#32
Carbon tetrachloride SCAN
Concen: 25.80 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:117 Resp: 429

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	62.0	0.0	58.8#
82	0.0	0.0	59.2

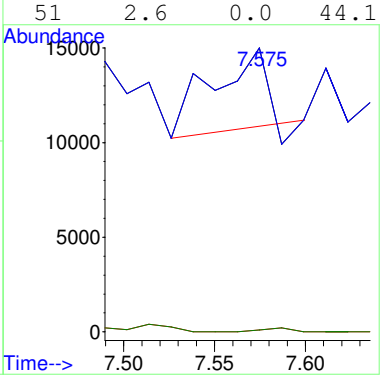


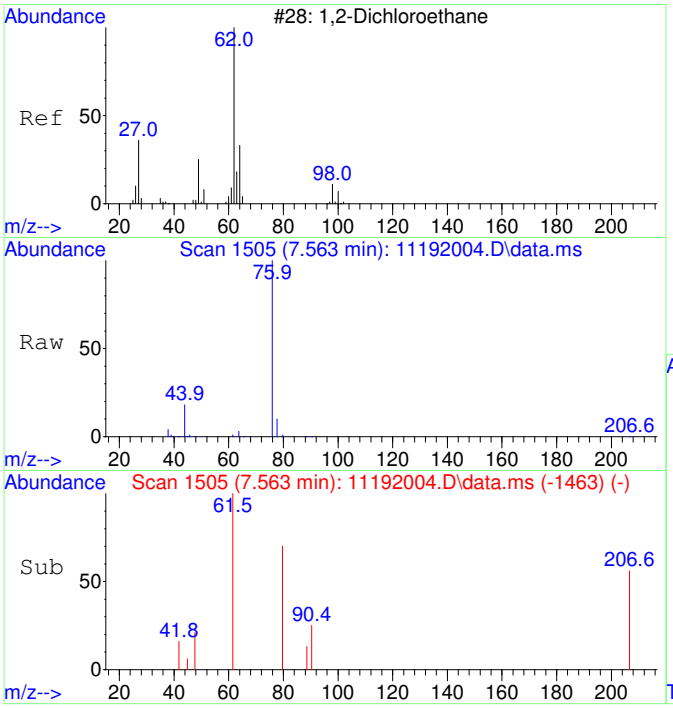


#33
Benzene SCAN
Concen: 191.43 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. 0.073 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 78 Resp: 8401

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	2.6	0.0	47.9
51	2.6	0.0	44.1

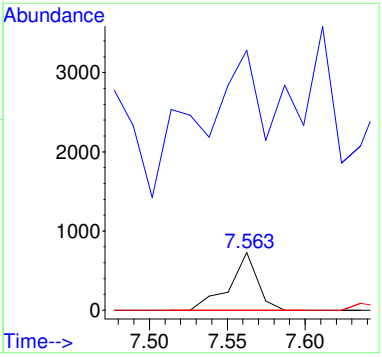


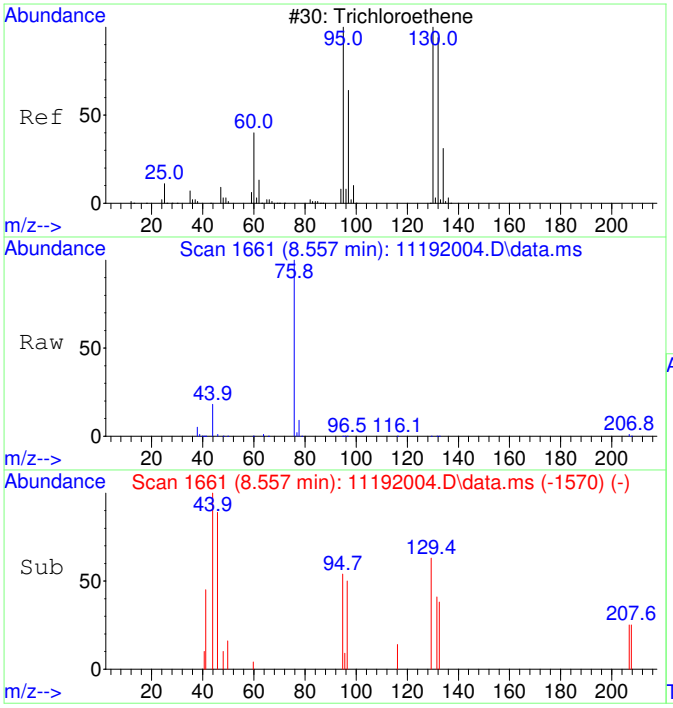


#34
1,2-Dichloroethane SCAN
Concen: 56.40 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 62 Resp: 914

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	0.0	3.9	63.9#

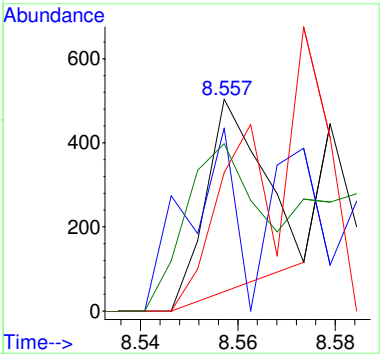


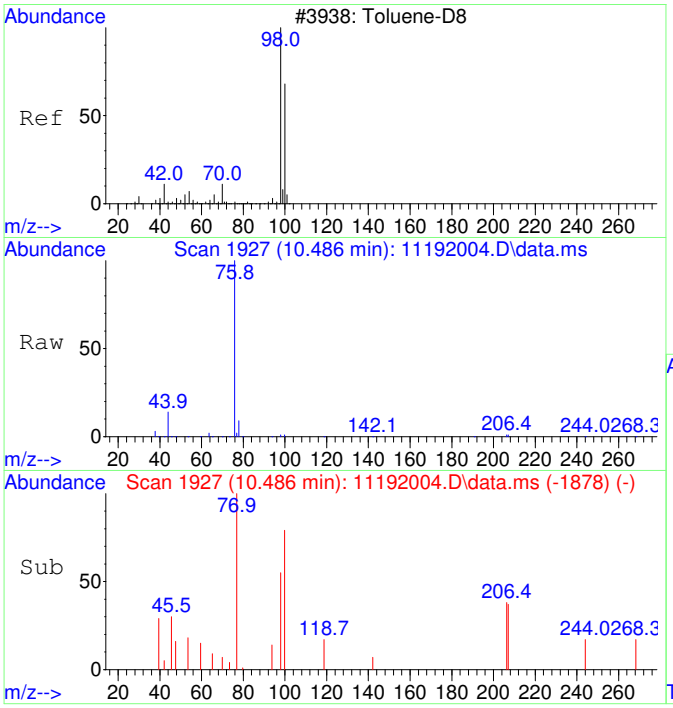


#35
Trichloroethene SCAN
Concen: 31.34 ug/L
RT: 8.557 min Scan# 1661
Delta R.T. -0.006 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:130 Resp: 378

Ion	Ratio	Lower	Upper
130	100		
95	77.2	60.5	120.5
132	0.0	59.6	119.6#
97	0.0	28.2	88.2#

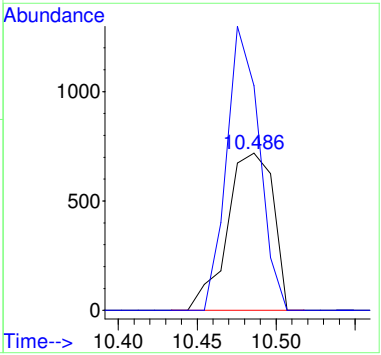


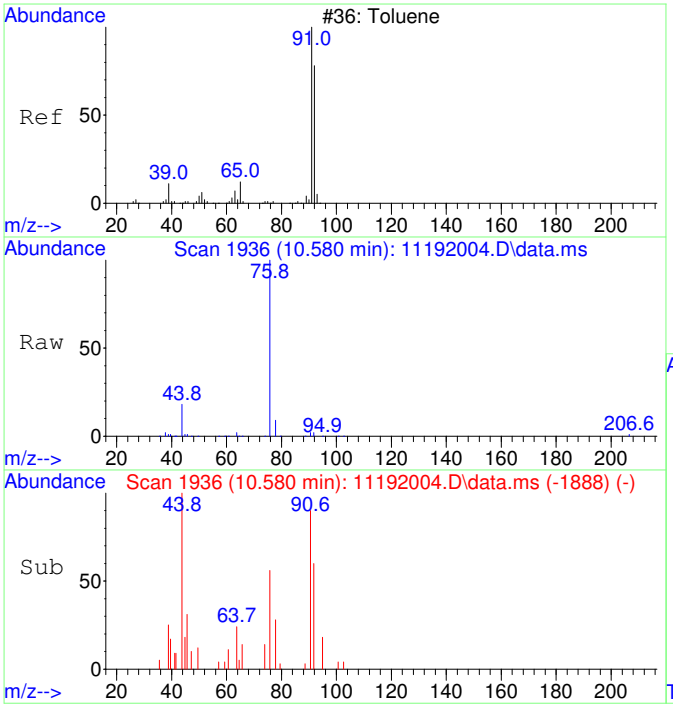


#36
Toluene-d8 SCAN
Concen: 30.15 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 98 Resp: 1459

Ion	Ratio	Lower	Upper
98	100		
100	128.1	40.0	100.0#

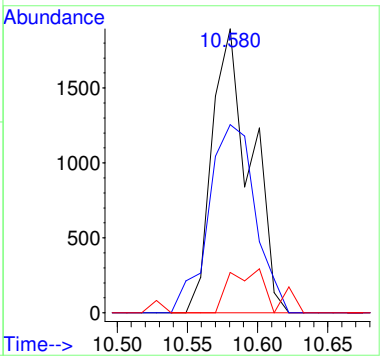


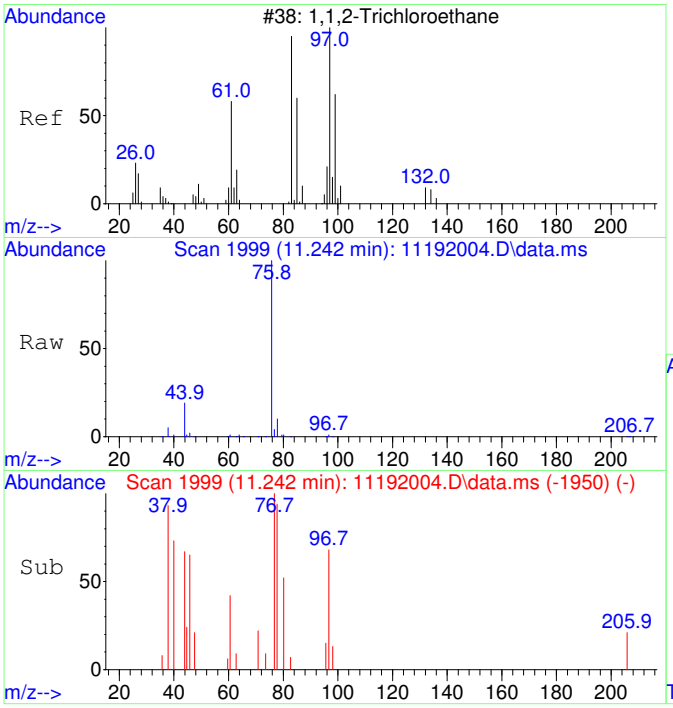


#37
Toluene SCAN
Concen: 58.81 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 3645

Ion	Ratio	Lower	Upper
91	100		
92	80.5	28.3	88.3
65	0.0	0.0	41.0

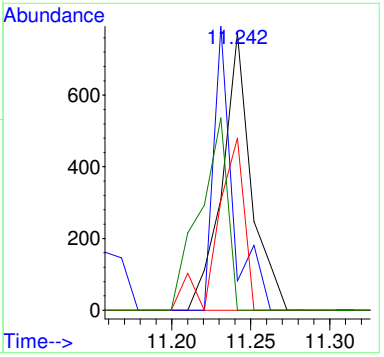


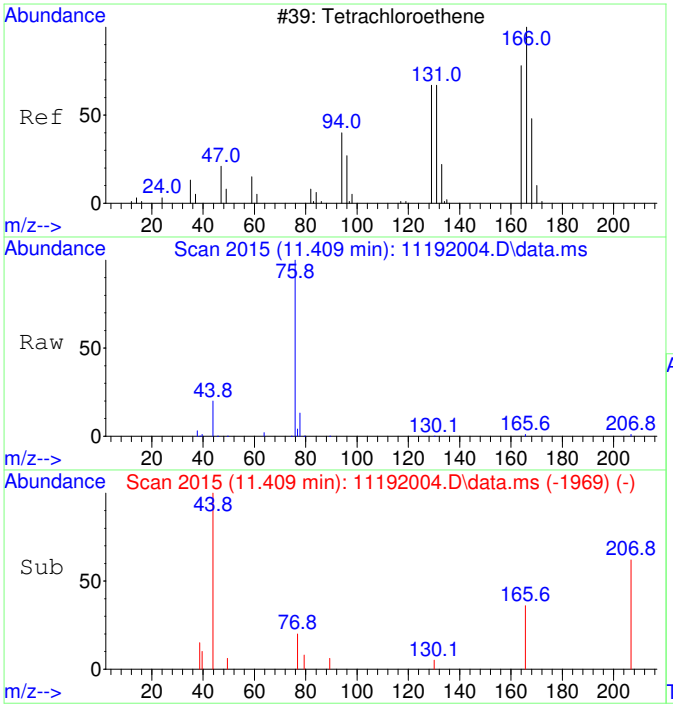


#38
1,1,2-Trichloroethane SCAN
Concen: 70.95 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 987

Ion	Ratio	Lower	Upper
97	100		
83	67.3	57.7	117.7
61	56.7	32.1	92.1
99	66.7	36.7	96.7

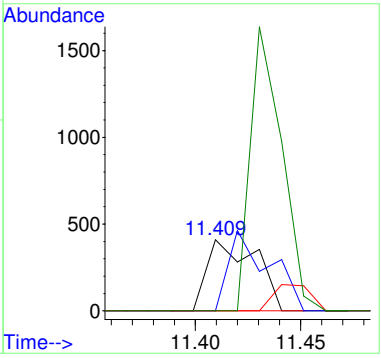


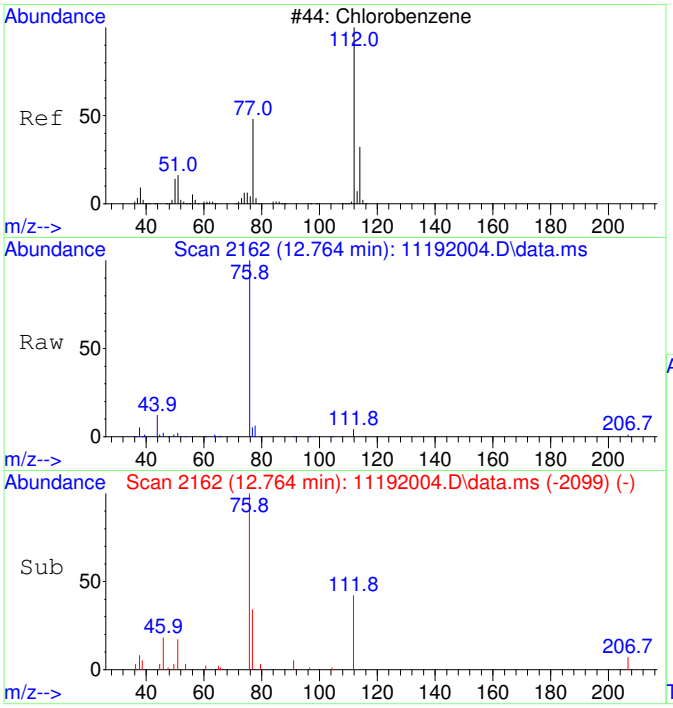


#39
Tetrachloroethene SCAN
Concen: 44.19 ug/L
RT: 11.409 min Scan# 2015
Delta R.T. -0.021 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:166 Resp: 658

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	0.0	38.7	98.7#
129	0.0	41.8	101.8#

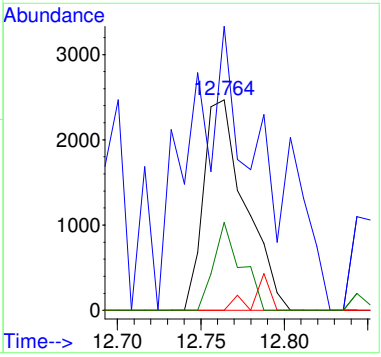


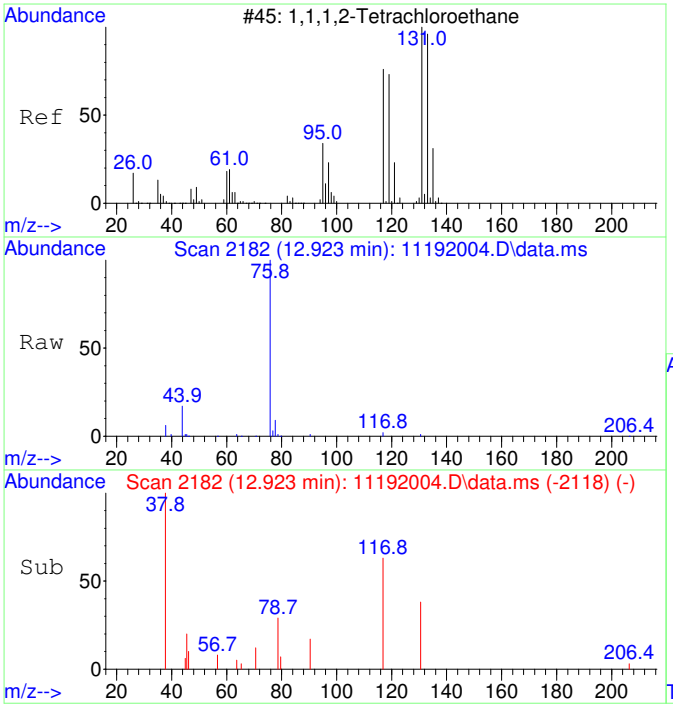


#40
Chlorobenzene SCAN
Concen: 101.72 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:112 Resp: 4308

Ion	Ratio	Lower	Upper
112	100		
77	242.9	28.2	88.2#
114	0.0	2.3	62.3#
51	27.3	0.0	50.1

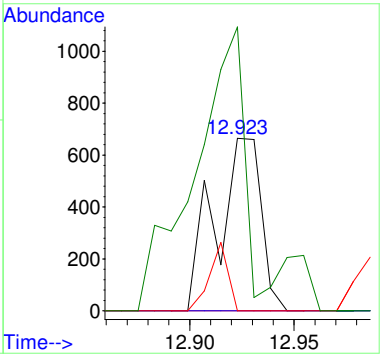


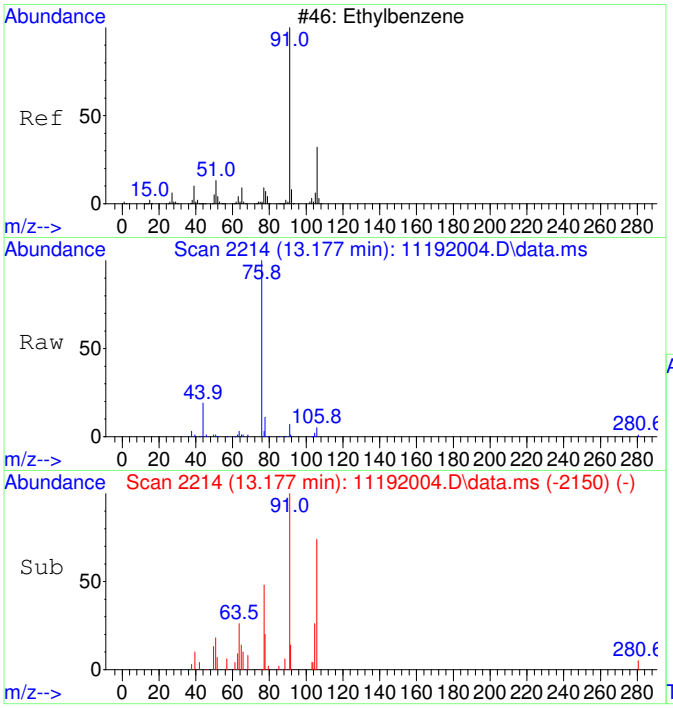


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 63.61 ug/L
RT: 12.923 min Scan# 2182
Delta R.T. 0.008 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:131 Resp: 997

Ion	Ratio	Lower	Upper
131	100		
133	0.0	66.9	126.9#
119	16.2	40.4	100.4#
117	167.4	35.1	95.1#

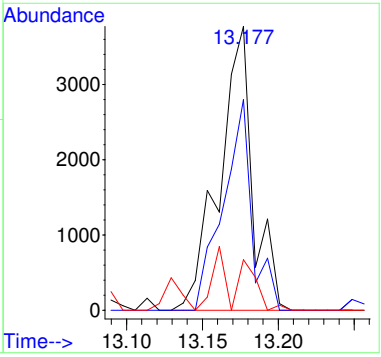


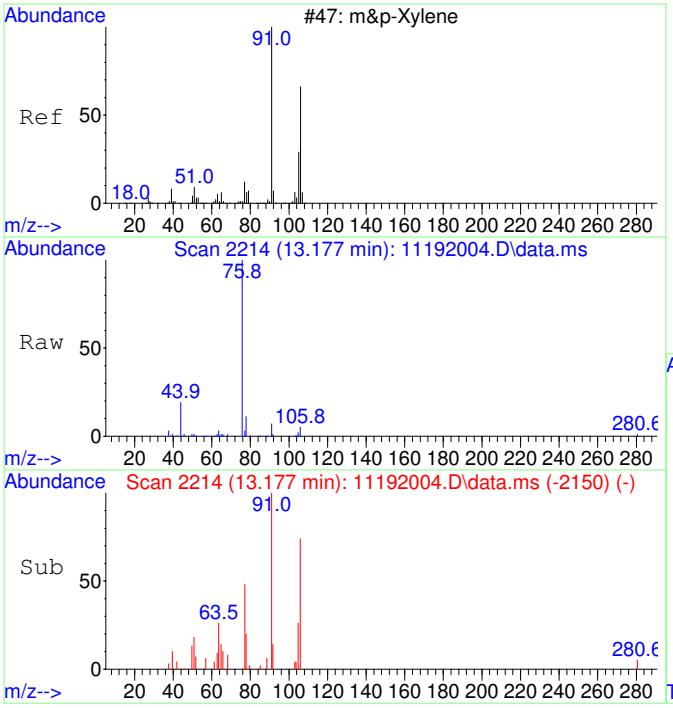


#42
Ethylbenzene SCAN
Concen: 51.37 ug/L
RT: 13.177 min Scan# 2214
Delta R.T. 0.008 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 5801

Ion	Ratio	Lower	Upper
91	100		
106	63.4	23.1	83.1
51	8.4	0.0	40.1

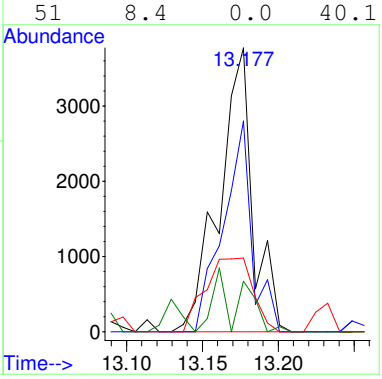


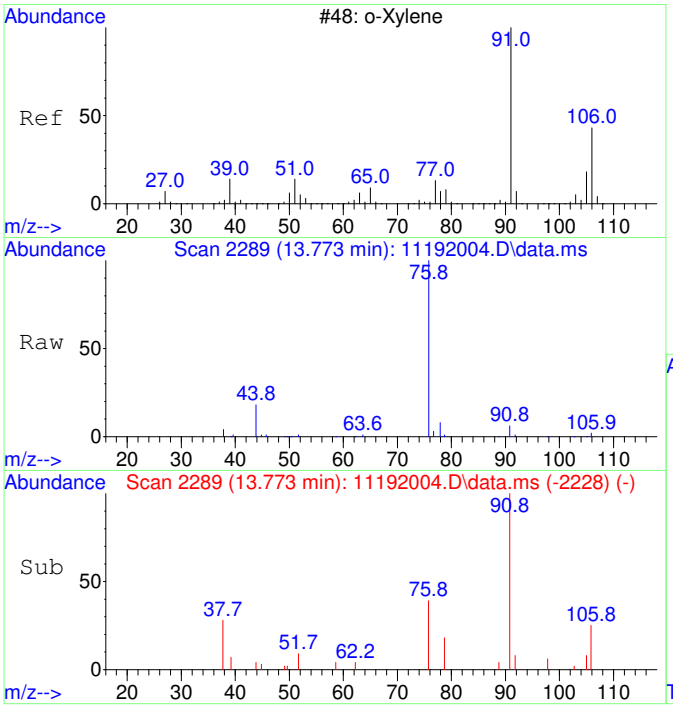


#43
m&p-Xylene SCAN
Concen: 51.37 ug/L
RT: 13.177 min Scan# 2214
Delta R.T. 0.008 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 5801

Ion	Ratio	Lower	Upper
91	100		
106	63.4	23.1	83.1
105	37.0	0.0	54.7
51	8.4	0.0	40.1

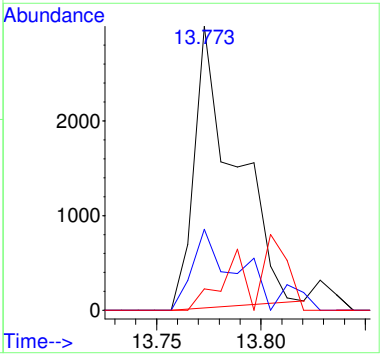


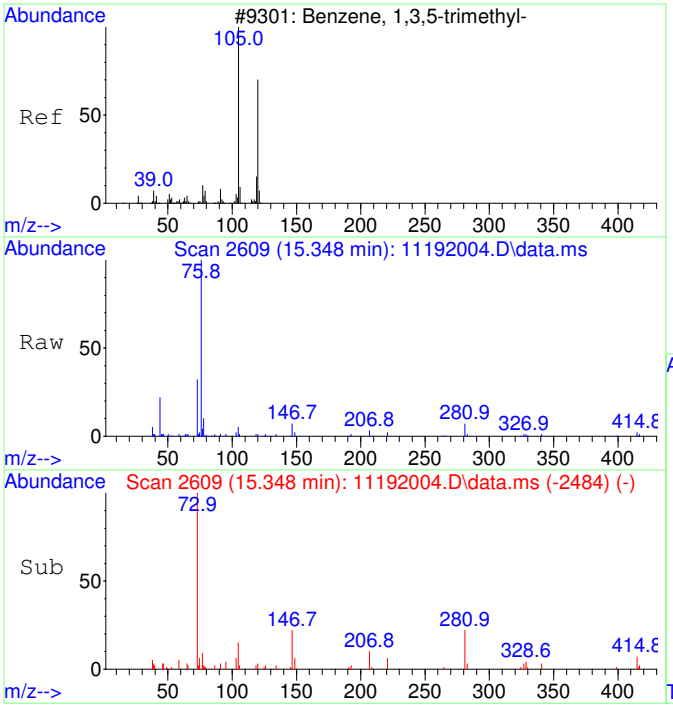


#44
o-Xylene SCAN
Concen: 68.13 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.016 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 4118

Ion	Ratio	Lower	Upper
91	100		
106	34.4	18.0	78.0
105	12.5	0.0	56.6

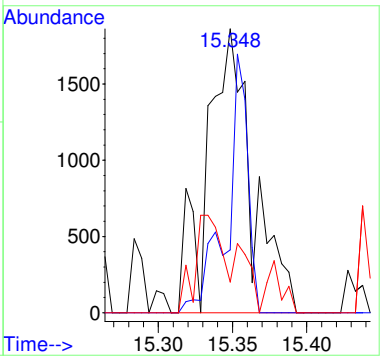


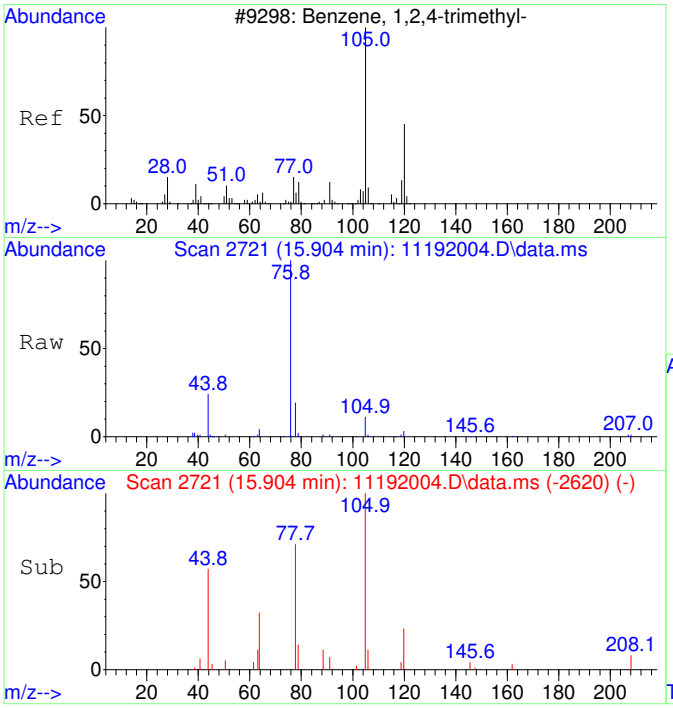


#46
1,3,5-Trimethylbenzene SCAN
Concen: 61.57 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 3922

Ion	Ratio	Lower	Upper
105	100		
120	42.0	18.3	78.3
119	5.5	0.0	43.1

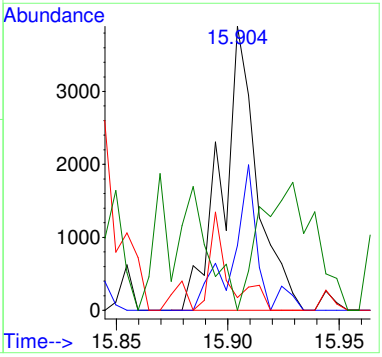


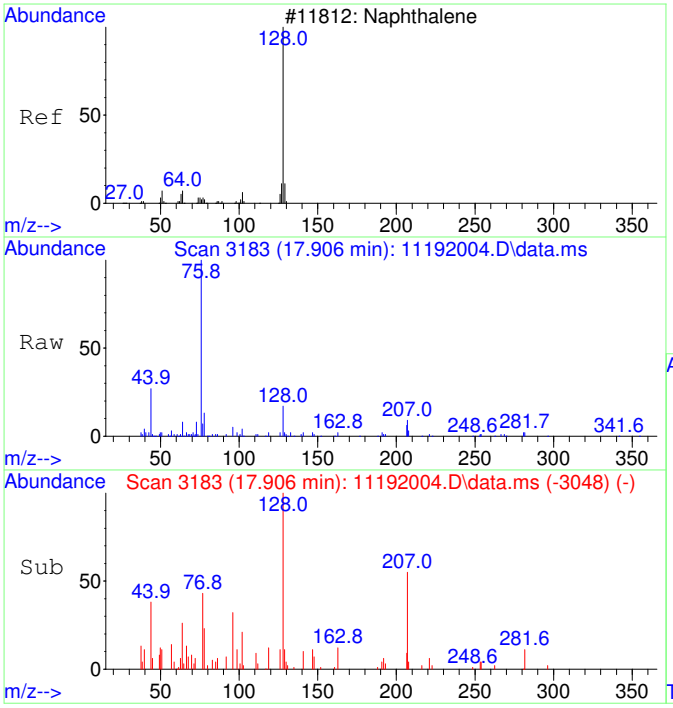


#47
1,2,4-Trimethylbenzene SCAN
Concen: 65.67 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 4280

Ion	Ratio	Lower	Upper
105	100		
120	36.8	16.9	76.9
119	23.3	0.0	41.9
77	0.0	0.0	42.3

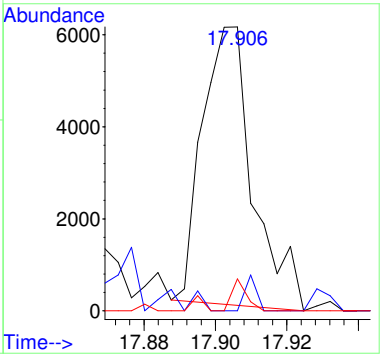




#48
Naphthalene SCAN
Concen: 60.34 ug/L
RT: 17.906 min Scan# 3183
Delta R.T. 0.001 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:128 Resp: 5951

Ion	Ratio	Lower	Upper
128	100		
127	2.9	0.0	44.0
129	3.3	0.0	40.8



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192004.D
Acq On : 19 Nov 2020 9:33
InstName : AG5975C
Operator : TD
Sample : S20K085-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

M.I. Performed By:
TD at 10:00 am, Nov 19, 2020

M.I. Approved By:
ZR at 4:44 pm, Nov 23, 2020

Quant Time: Nov 19 09:52:19 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	507664	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	4969	50.00	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 1.00%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.082	61	978m	48.24	ug/L	
3] trans-1,2-Dichloroethene	4.356	61	1079	46.07	ug/L	52
4] 1,1-Dichloroethane	5.072	63	1352	46.37	ug/L	62
5] cis-1,2-Dichloroethene	6.081	61	1475	47.93	ug/L	97
6] Chloroform	6.652	83	1481	47.02	ug/L	97
7] 1,1,1-Trichloroethane	6.907	97	1559	45.57	ug/L	97
8] Carbon tetrachloride	7.175	117	1468	45.59	ug/L	100
9] Benzene	7.503	78	4370	50.66	ug/L #	1
10] 1,2-Dichloroethane	7.540	62	1378	44.75	ug/L #	1
11] Trichloroethene	8.569	130	1278	49.21	ug/L	91
13] Toluene	10.582	91	6447	50.88	ug/L	97
14] 1,1,2-Trichloroethane	11.232	97	1373	49.73	ug/L	92
15] Tetrachloroethene	11.432	166	1918	52.31	ug/L	99
16] Chlorobenzene	12.765	112	4889	53.89	ug/L	92
17] 1,1,1,2-Tetrachloroethane	12.916	131	1677	51.59	ug/L	98
18] Ethylbenzene	12.972	91	8286	53.73	ug/L	95
19] m&p-Xylene	13.162	91	13077	108.49	ug/L	95
20] o-Xylene	13.782	91	6834	53.07	ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.877	83	3096	54.25	ug/L	97
22] 1,3,5-Trimethylbenzene	15.350	105	7930	57.86	ug/L	95
23] 1,2,4-Trimethylbenzene	15.906	105	8552	60.07	ug/L	92
24] Naphthalene	17.904	128	13448	59.76	ug/L	97
25) 2-Fluorotoluene SCAN	10.969	109	237124	4791.56	ug/L	100
27) trans-1,2-Dichloroethe...	4.328	61	1194	91.81	ug/L #	17
29) cis-1,2-Dichloroethene...	6.093	61	499	30.94	ug/L #	1
30) Chloroform SCAN	6.675	83	558	31.90	ug/L #	27
31) 1,1,1-Trichloroethane ...	6.894	97	481	30.18	ug/L #	19
32) Carbon tetrachloride SCAN	7.161	117	429	25.80	ug/L #	13
33) Benzene SCAN	7.575	78	8401	191.43	ug/L	92
34) 1,2-Dichloroethane SCAN	7.563	62	914	56.40	ug/L #	40
35) Trichloroethene SCAN	8.557	130	378	31.34	ug/L #	40
36) Toluene-d8 SCAN	10.486	98	1459	30.15	ug/L #	29
37) Toluene SCAN	10.580	91	3645	58.81	ug/L #	70
38) 1,1,2-Trichloroethane ...	11.242	97	987	70.95	ug/L	89
39) Tetrachloroethene SCAN	11.409	166	658	44.19	ug/L #	12
40) Chlorobenzene SCAN	12.764	112	4308	101.72	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.923	131	997	63.61	ug/L #	3
42) Ethylbenzene SCAN	13.177	91	5801	51.37	ug/L	87
43) m&p-Xylene SCAN	13.177	91	5801	51.37	ug/L	84
44) o-Xylene SCAN	13.773	91	4118	68.13	ug/L	77
46) 1,3,5-Trimethylbenzene...	15.348	105	3922	61.57	ug/L	89
47) 1,2,4-Trimethylbenzene...	15.904	105	4280	65.67	ug/L #	80
48) Naphthalene SCAN	17.906	128	5951	60.34	ug/L	76

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111920\
Data File : 11192004.D
Acq On : 19 Nov 2020 9:33
InstName : AG5975C
Operator : TD
Sample : S20K085-CRL1
Misc : 2030073 0.05 mg/L
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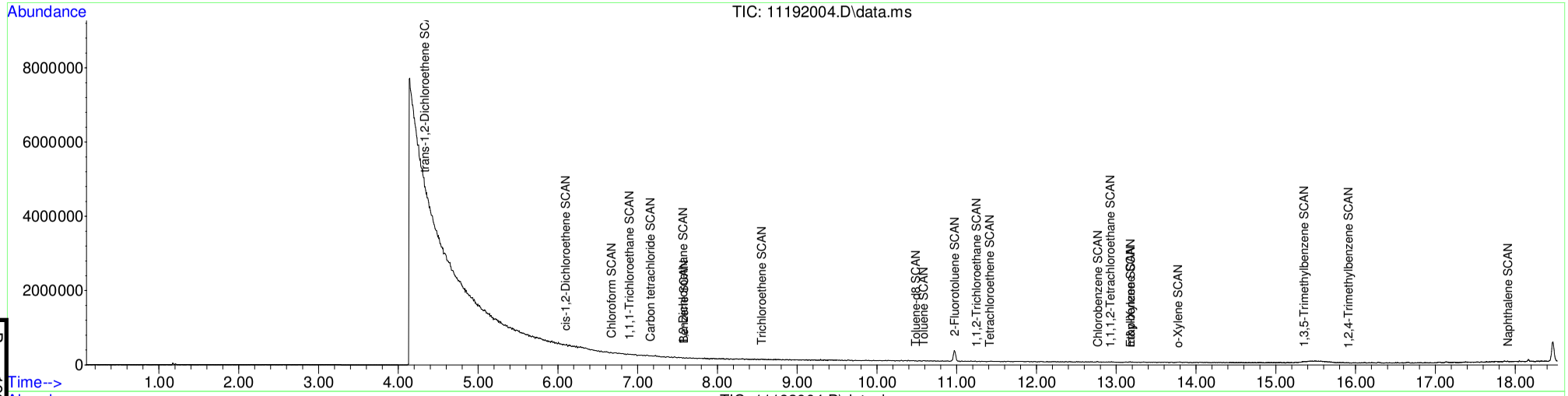
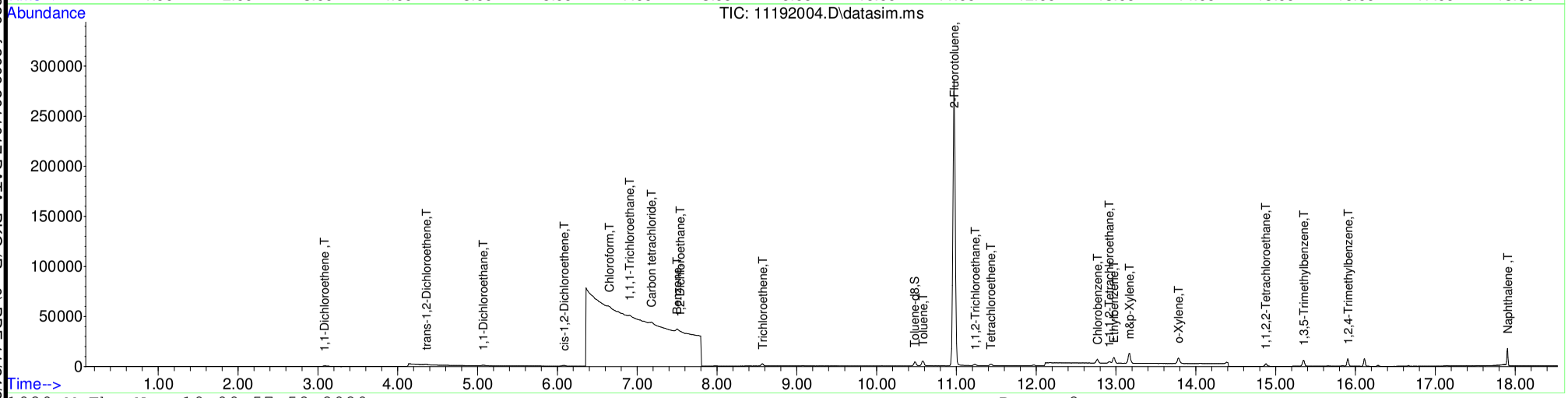
Quant Time: Nov 19 09:52:19 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111920.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration





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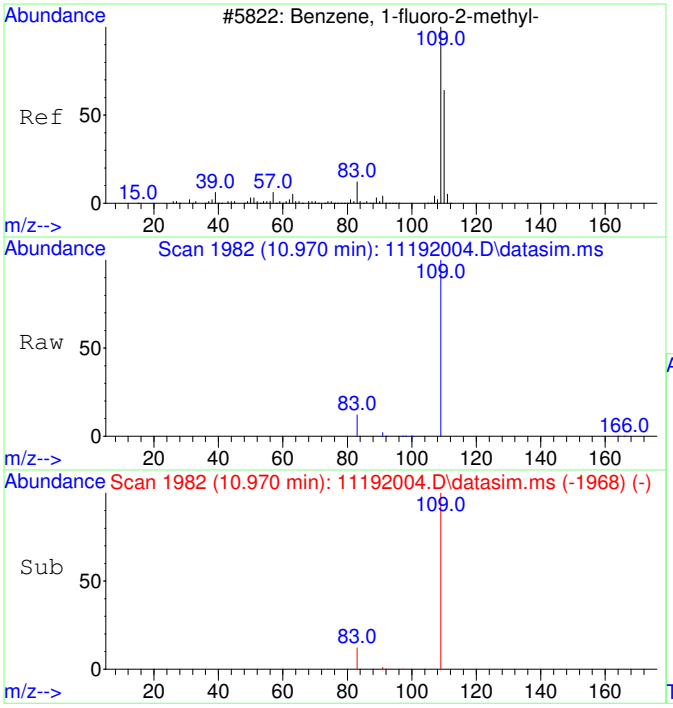
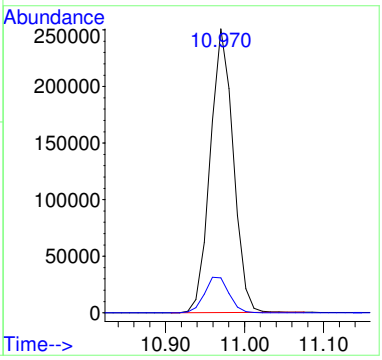
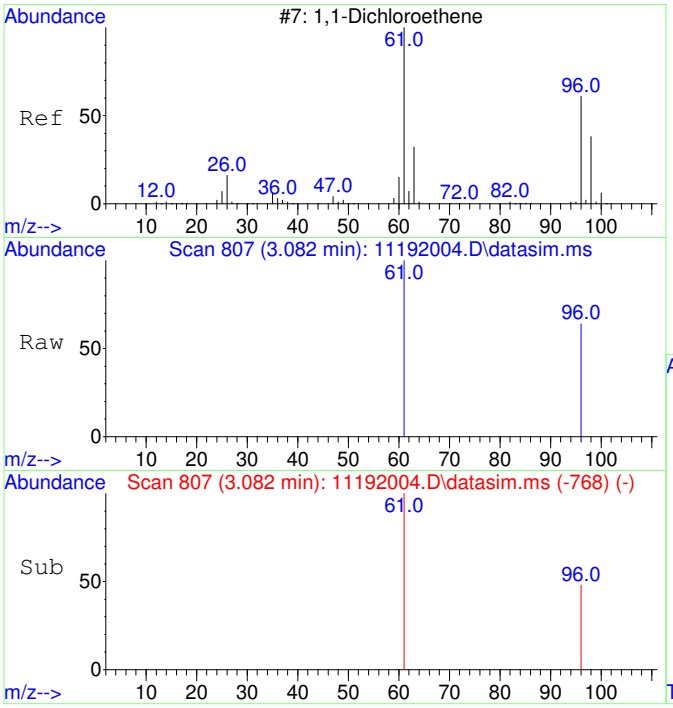


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:109 Resp: 507664

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	42.3

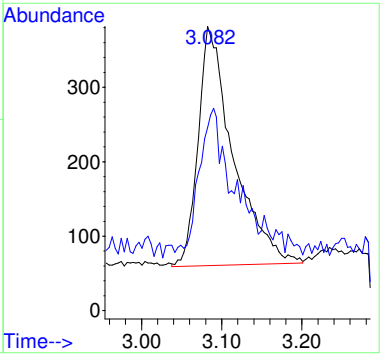


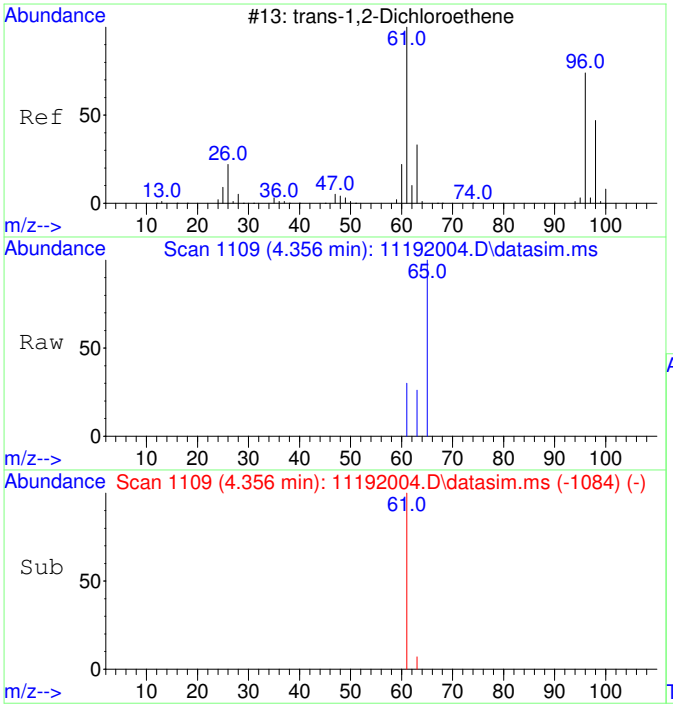


#2
1,1-Dichloroethene
Concen: 48.24 ug/L m
RT: 3.082 min Scan# 807
Delta R.T. -0.004 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 978

Ion	Ratio	Lower	Upper
61	100		
96	58.2	37.2	97.2

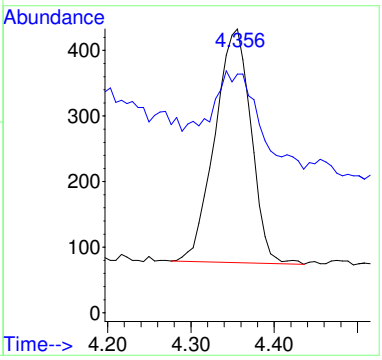


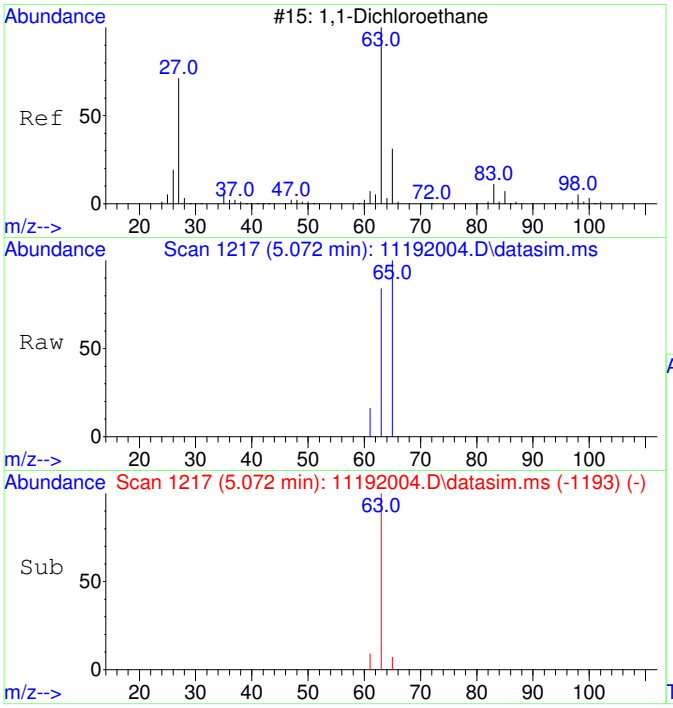


#3
trans-1,2-Dichloroethene
Concen: 46.07 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. 0.013 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 1079

Ion	Ratio	Lower	Upper
61	100		
63	59.4	2.4	62.4

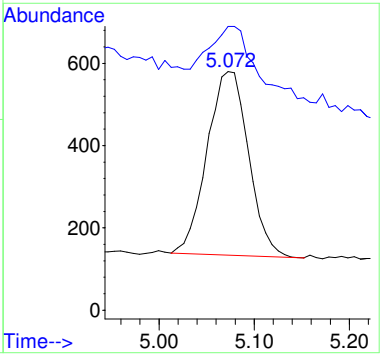


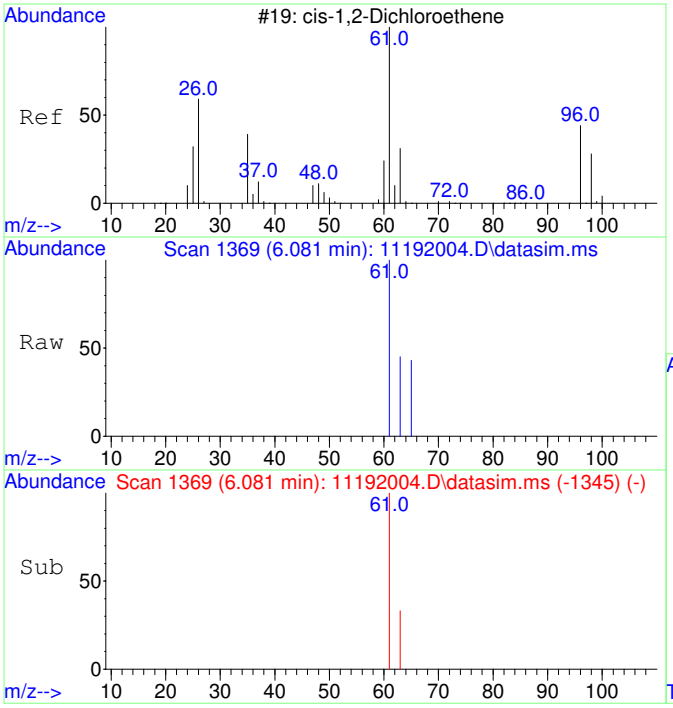


#4
1,1-Dichloroethane
Concen: 46.37 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. 0.007 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 63 Resp: 1352

Ion	Ratio	Lower	Upper
63	100		
65	52.9	1.8	61.8

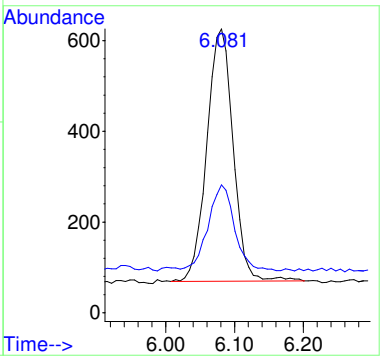


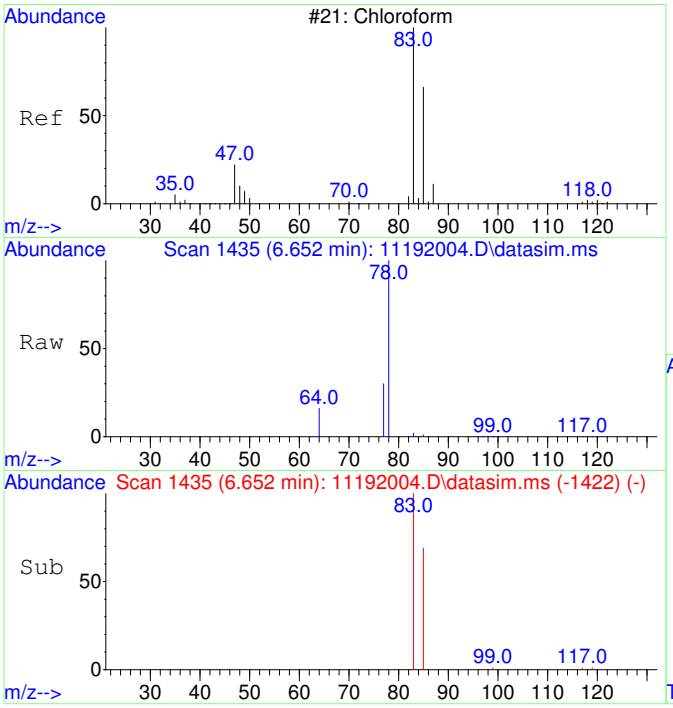


#5
cis-1,2-Dichloroethene
Concen: 47.93 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 1475

Ion	Ratio	Lower	Upper
61	100		
63	34.0	2.5	62.5

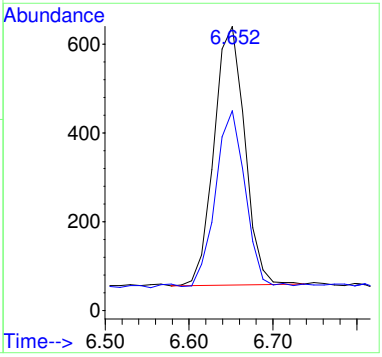


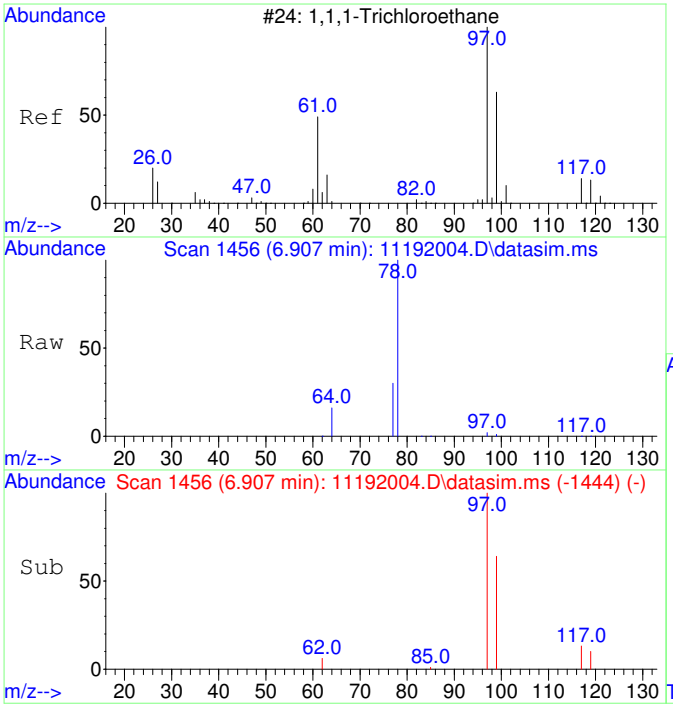


#6
Chloroform
Concen: 47.02 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. 0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 83 Resp: 1481

Ion	Ratio	Lower	Upper
83	100		
85	67.7	35.1	95.1

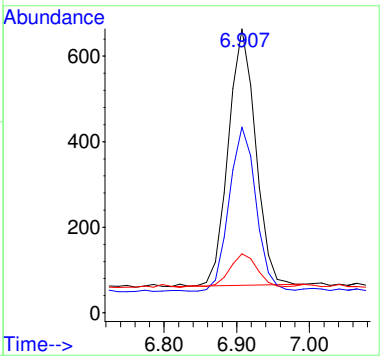


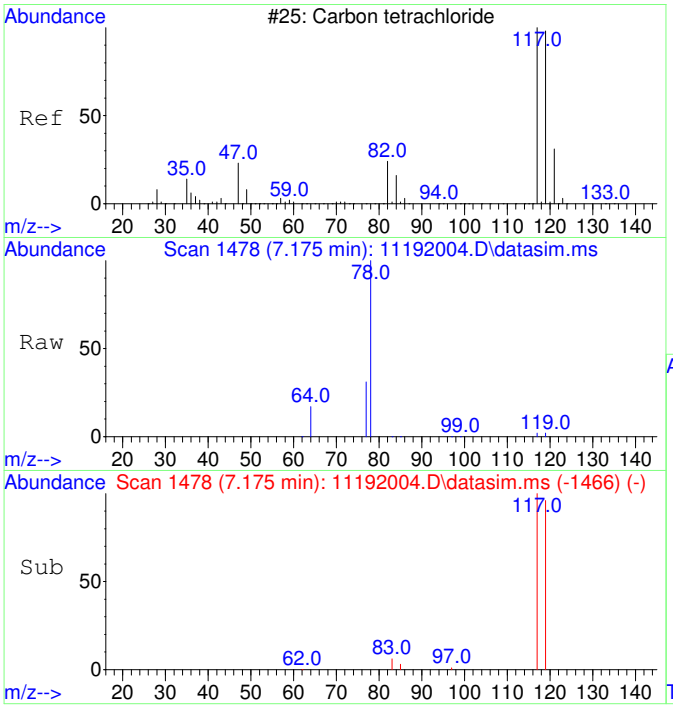


#7
1,1,1-Trichloroethane
Concen: 45.57 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 1559

Ion	Ratio	Lower	Upper
97	100		
99	62.3	34.6	94.6
117	13.9	0.0	43.2

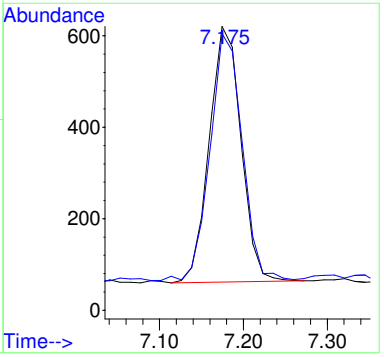


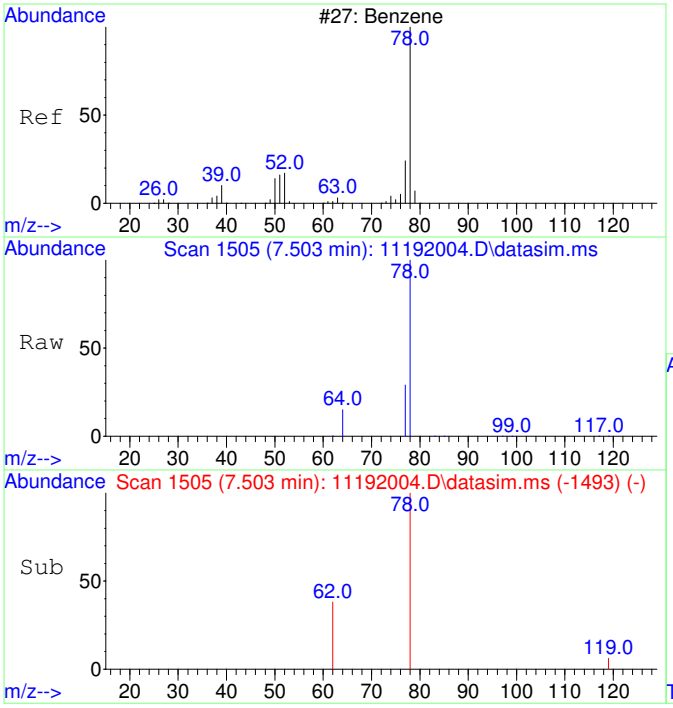


#8
Carbon tetrachloride
Concen: 45.59 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:117 Resp: 1468

Ion	Ratio	Lower	Upper
117	100		
119	96.7	66.4	126.4

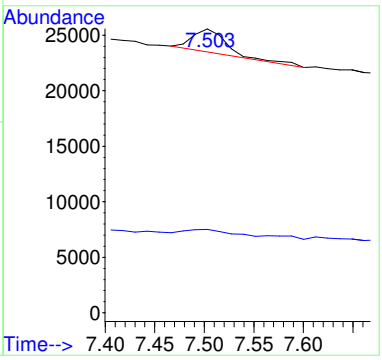


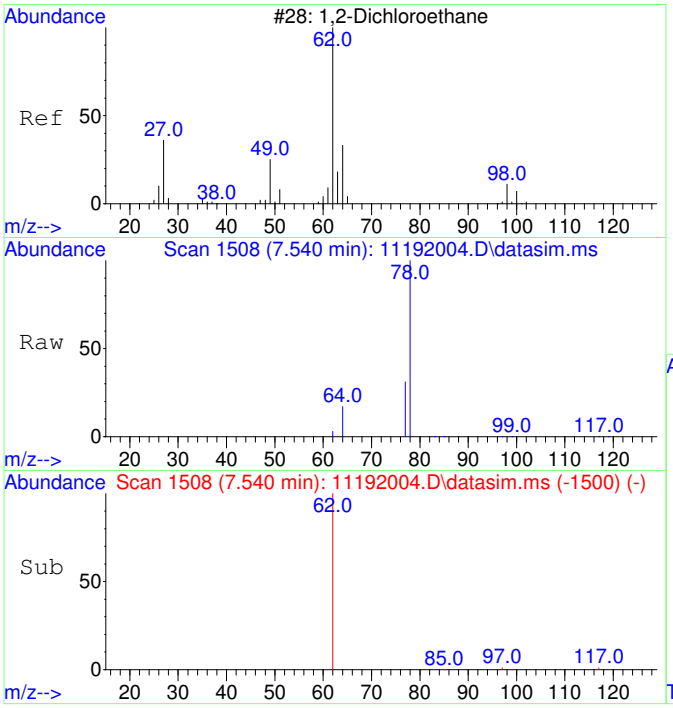


#9
Benzene
Concen: 50.66 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 78 Resp: 4370

Ion	Ratio	Lower	Upper
78	100		
77	89.0	0.0	53.2#

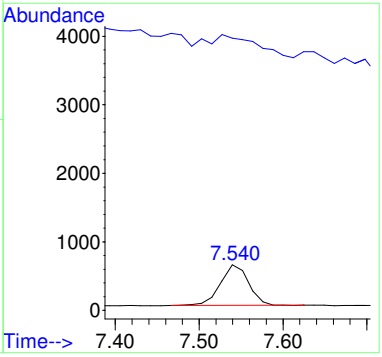


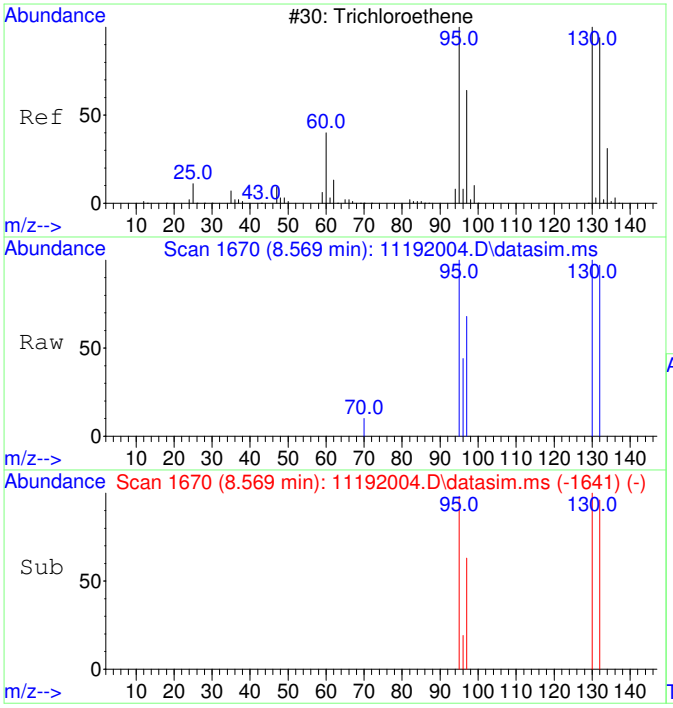


#10
1,2-Dichloroethane
Concen: 44.75 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 62 Resp: 1378

Ion	Ratio	Lower	Upper
62	100		
64	99.3	2.3	62.3#

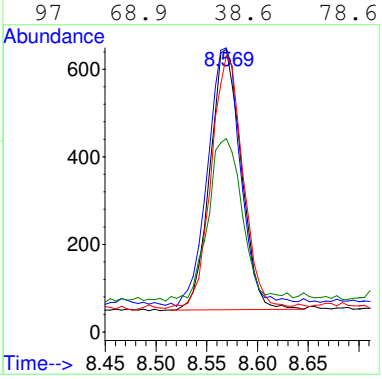


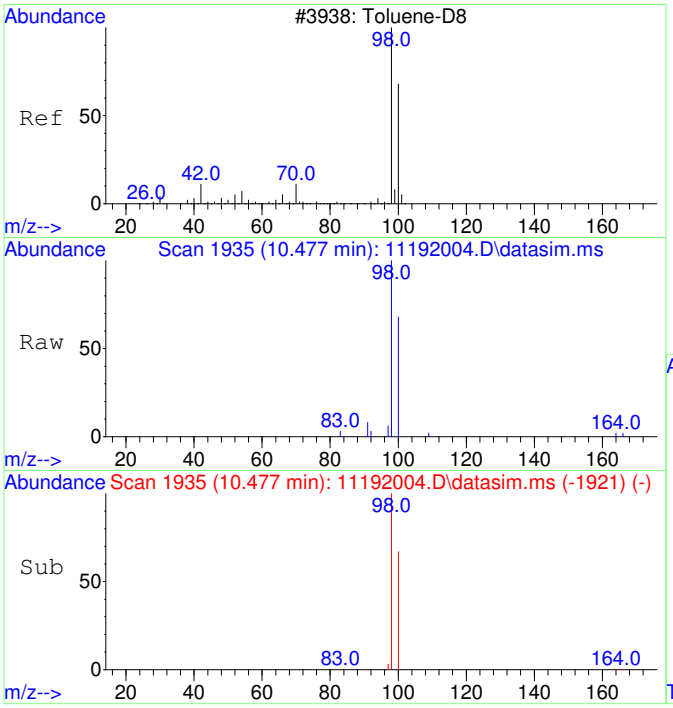


#11
Trichloroethene
Concen: 49.21 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:130 Resp: 1278

Ion	Ratio	Lower	Upper
130	100		
95	103.8	60.7	120.7
132	96.6	76.0	116.0
97	68.9	38.6	78.6

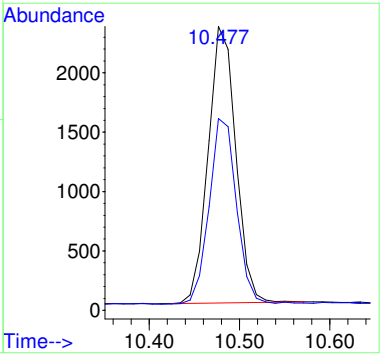


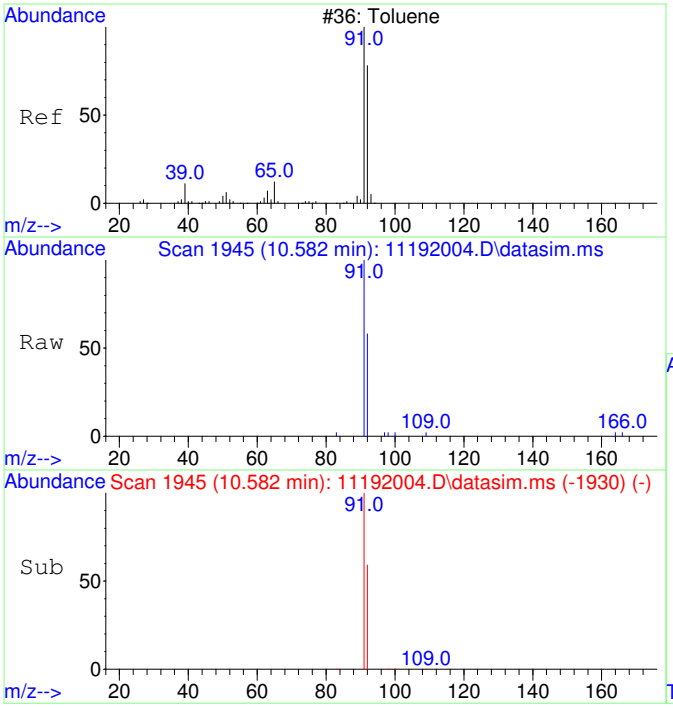


#12
Toluene-d8
Concen: 50.00 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 98 Resp: 4969

Ion	Ratio	Lower	Upper
98	100		
100	65.8	37.1	97.1

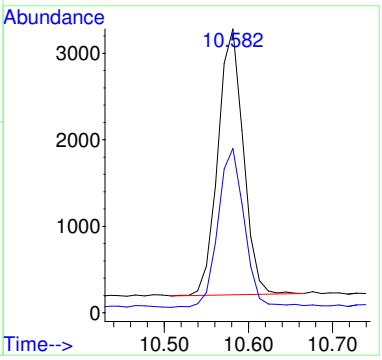


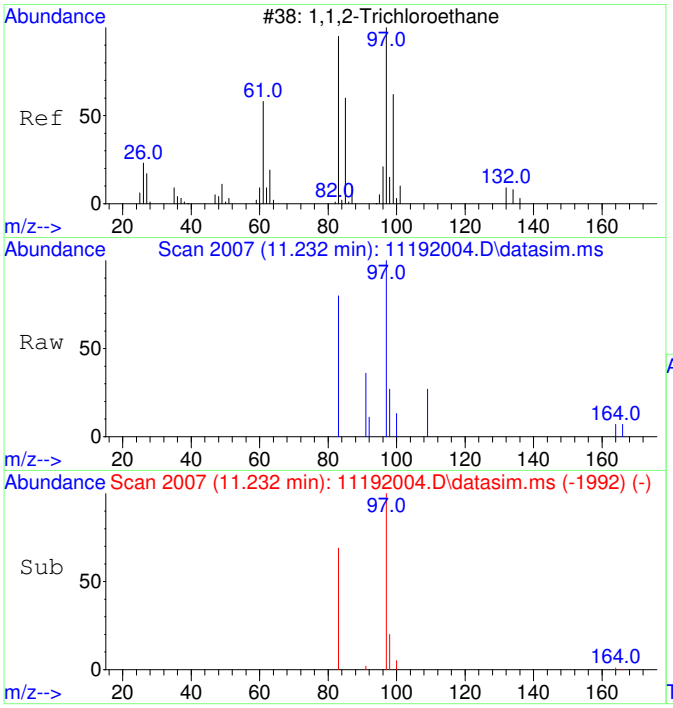


#13
Toluene
Concen: 50.88 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 6447

Ion	Ratio	Lower	Upper
91	100		
92	61.9	29.9	89.9

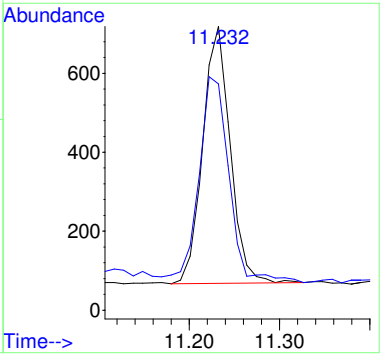


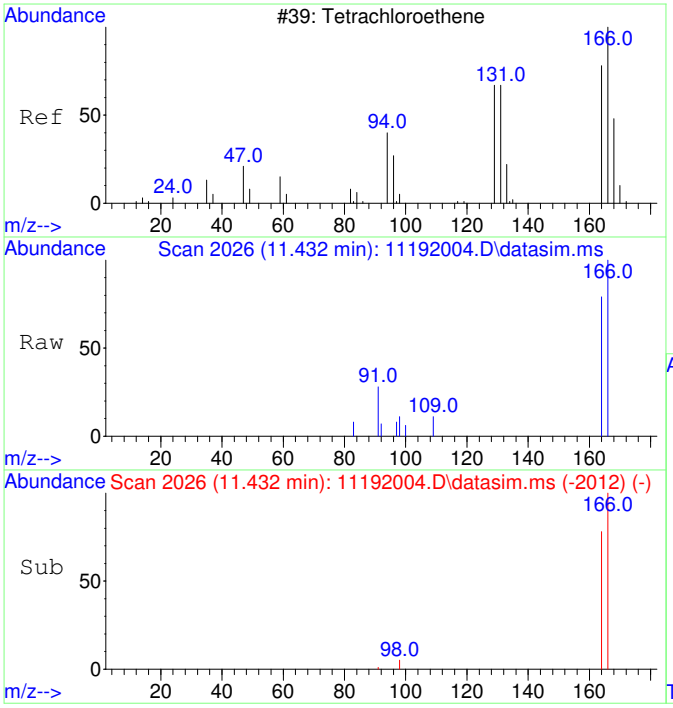


#14
1,1,2-Trichloroethane
Concen: 49.73 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 1373

Ion	Ratio	Lower	Upper
97	100		
83	88.0	51.2	111.2

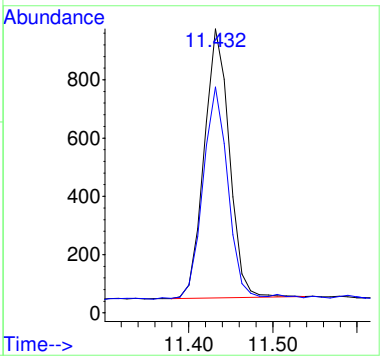


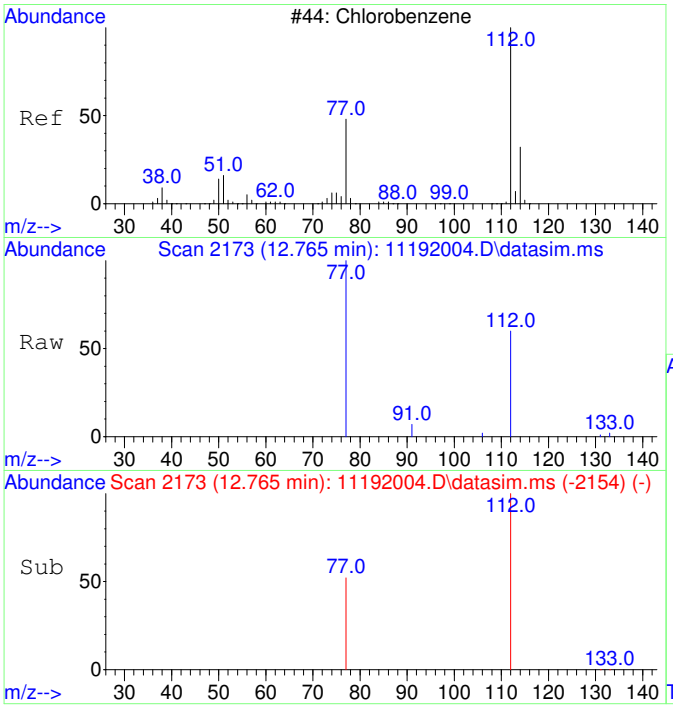


#15
Tetrachloroethene
Concen: 52.31 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:166 Resp: 1918

Ion	Ratio	Lower	Upper
166	100		
164	78.3	47.8	107.8

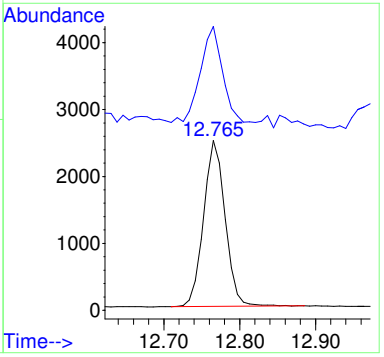


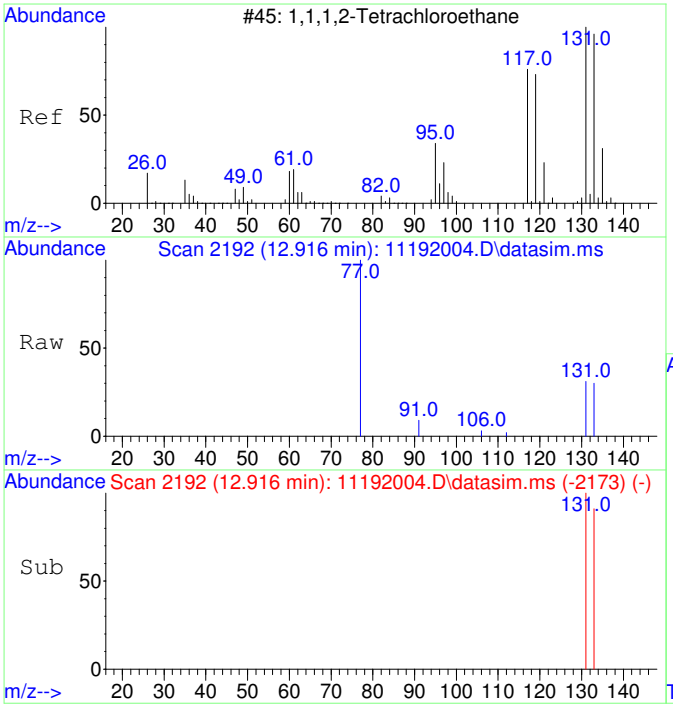


#16
Chlorobenzene
Concen: 53.89 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:112 Resp: 4889

Ion	Ratio	Lower	Upper
112	100		
77	59.0	23.6	83.6

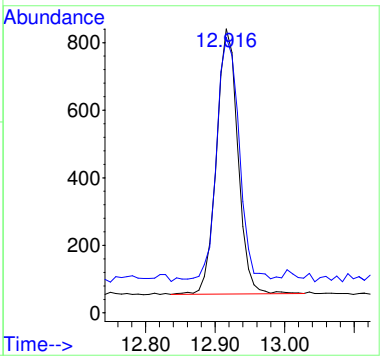


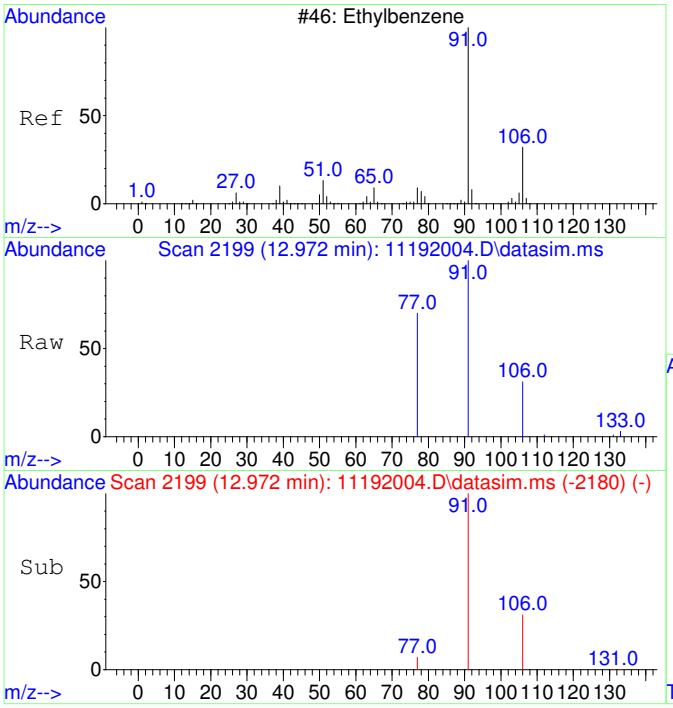


#17
1,1,1,2-Tetrachloroethane
Concen: 51.59 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:131 Resp: 1677

Ion	Ratio	Lower	Upper
131	100		
133	94.1	66.3	126.3

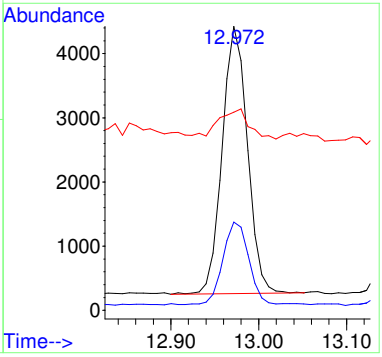


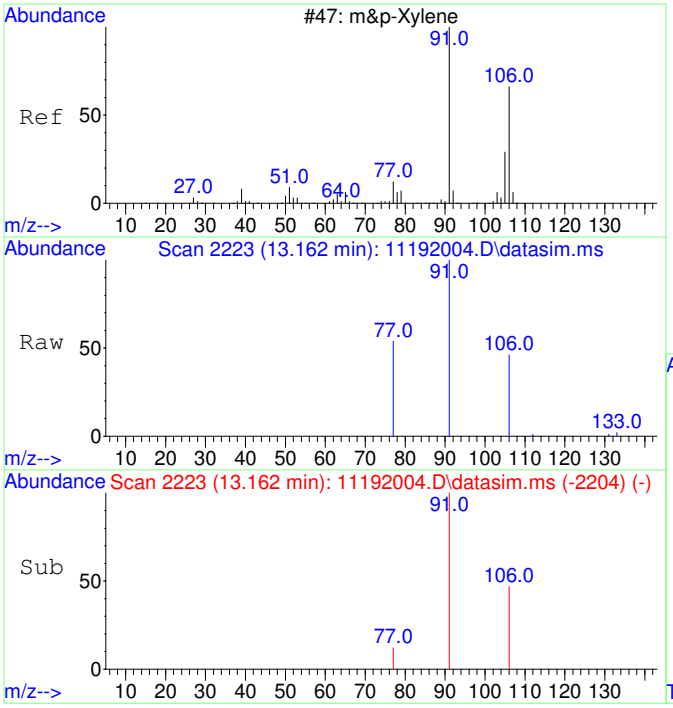


#18
Ethylbenzene
Concen: 53.73 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 8286

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	13.7	0.0	38.2

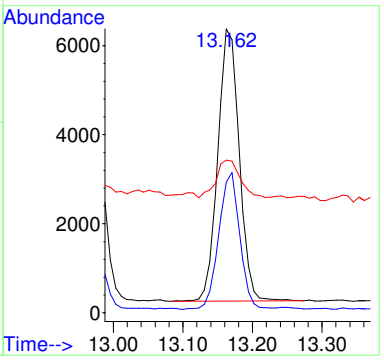


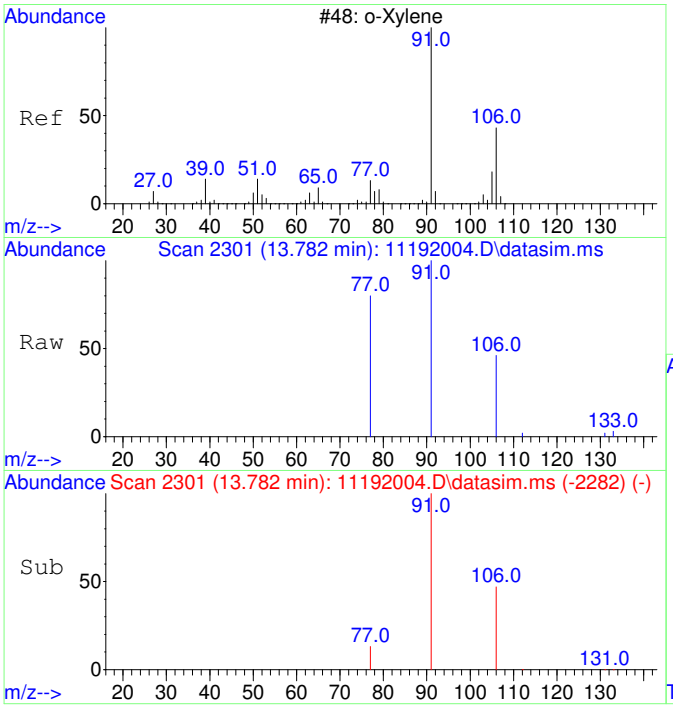


#19
m&p-Xylene
Concen: 108.49 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 13077

Ion	Ratio	Lower	Upper
91	100		
106	49.4	22.2	82.2
77	15.3	0.0	42.4

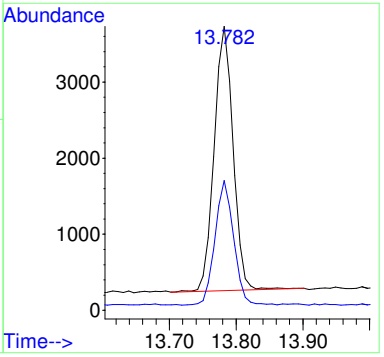


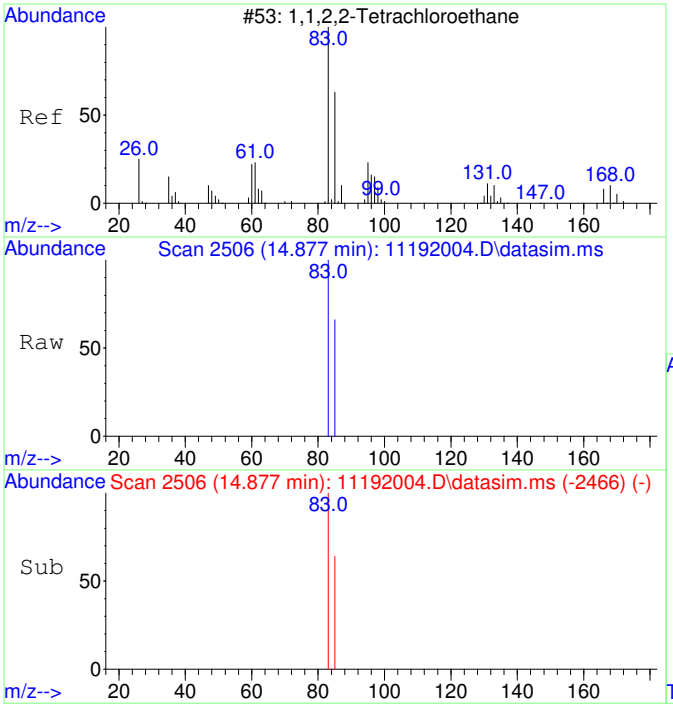


#20
o-Xylene
Concen: 53.07 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 6834

Ion	Ratio	Lower	Upper
91	100		
106	46.5	19.2	79.2

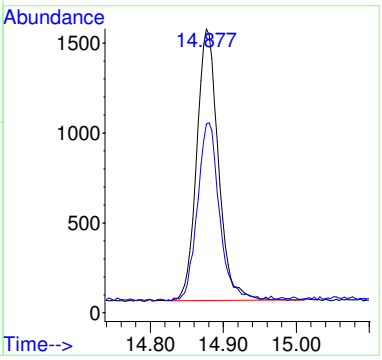


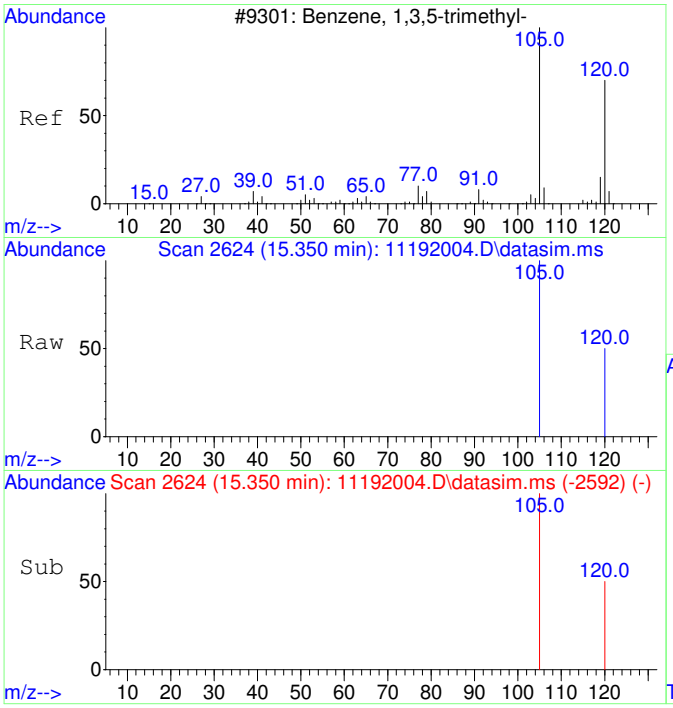


#21
1,1,2,2-Tetrachloroethane
Concen: 54.25 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 83 Resp: 3096

Ion	Ratio	Lower	Upper
83	100		
85	67.3	34.8	94.8

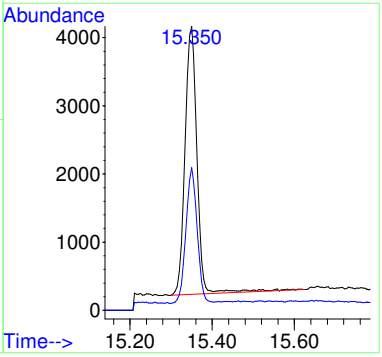


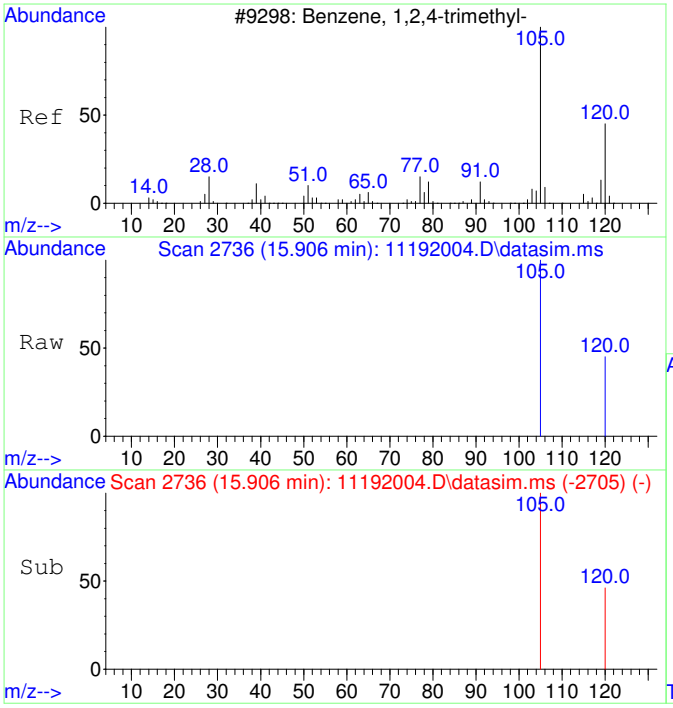


#22
1,3,5-Trimethylbenzene
Concen: 57.86 ug/L
RT: 15.350 min Scan# 2624
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 7930

Ion	Ratio	Lower	Upper
105	100		
120	47.8	21.1	81.1

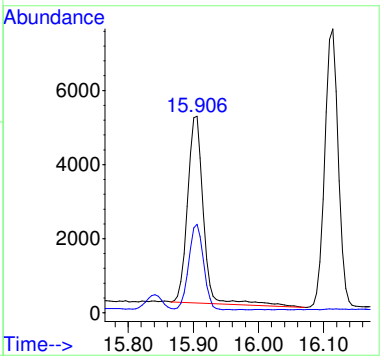


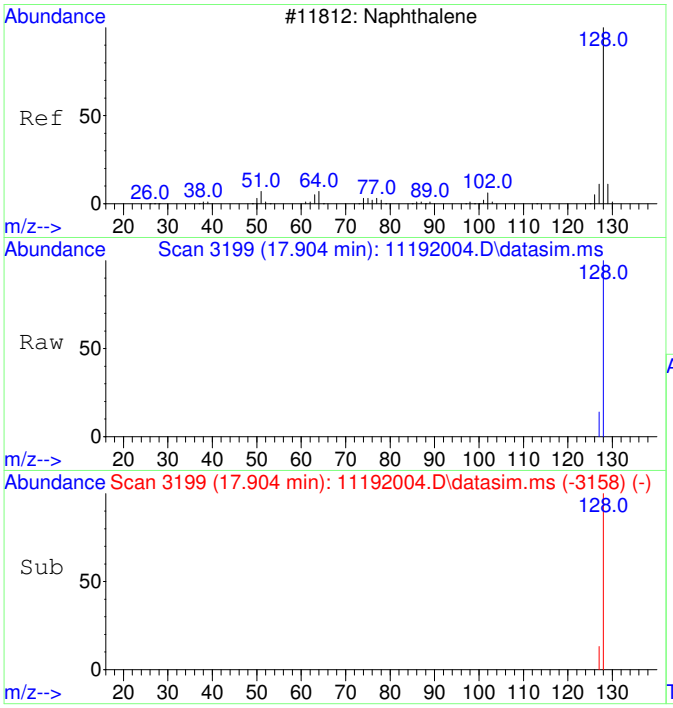


#23
1,2,4-Trimethylbenzene
Concen: 60.07 ug/L
RT: 15.906 min Scan# 2736
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 8552

Ion	Ratio	Lower	Upper
105	100		
120	41.8	17.2	77.2

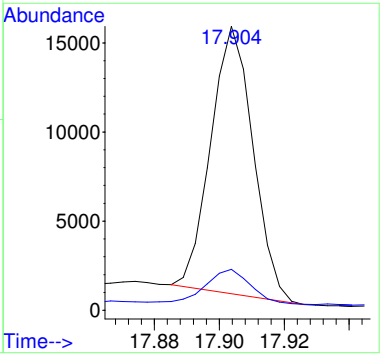


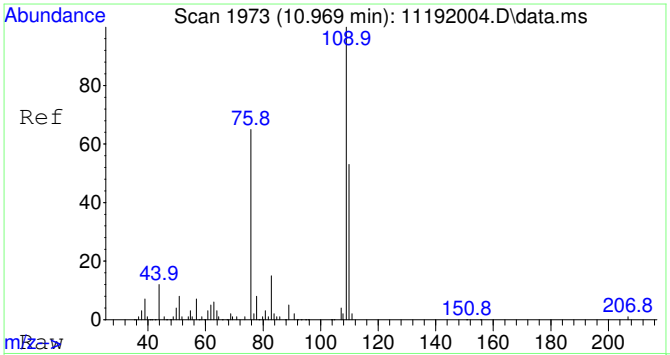


#24
Naphthalene
Concen: 59.76 ug/L
RT: 17.904 min Scan# 3199
Delta R.T. 0.001 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:128 Resp: 13448

Ion	Ratio	Lower	Upper
128	100		
127	13.5	0.0	42.5

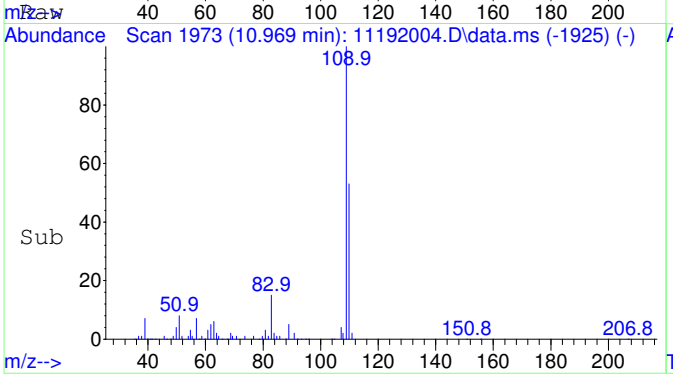


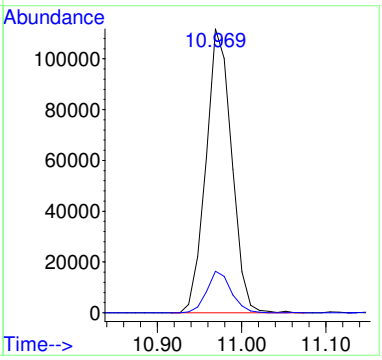


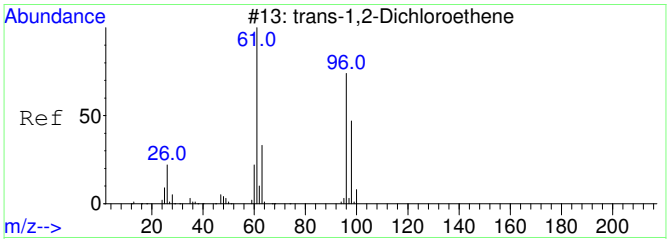
#25
2-Fluorotoluene SCAN
Concen: 4791.56 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:109 Resp: 237124

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	43.8



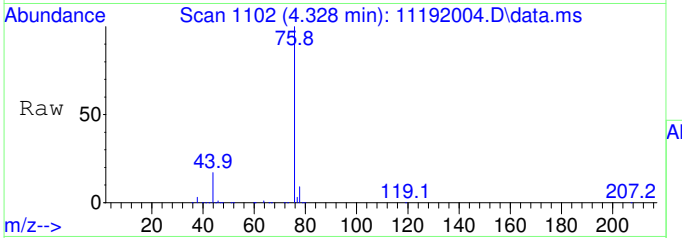


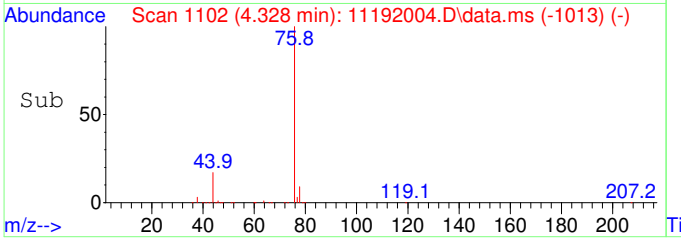


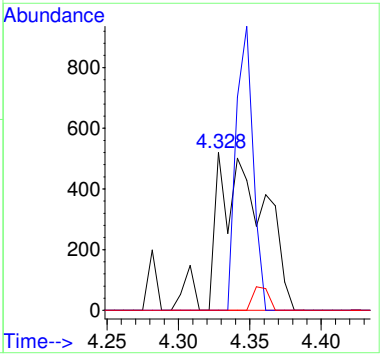
#27
trans-1,2-Dichloroethene SCAN
Concen: 91.81 ug/L
RT: 4.328 min Scan# 1102
Delta R.T. -0.020 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

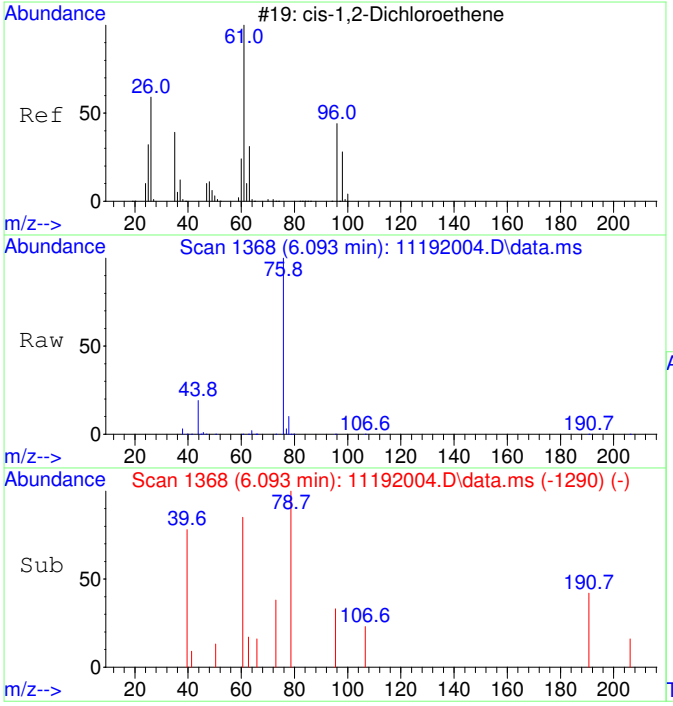
Tgt Ion: 61 Resp: 1194

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	0.0	20.5	80.5#





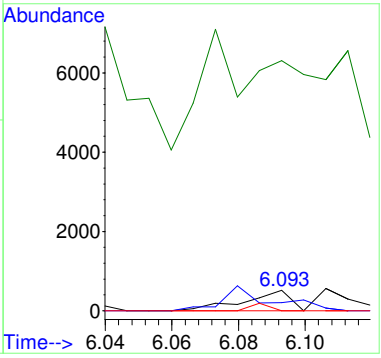


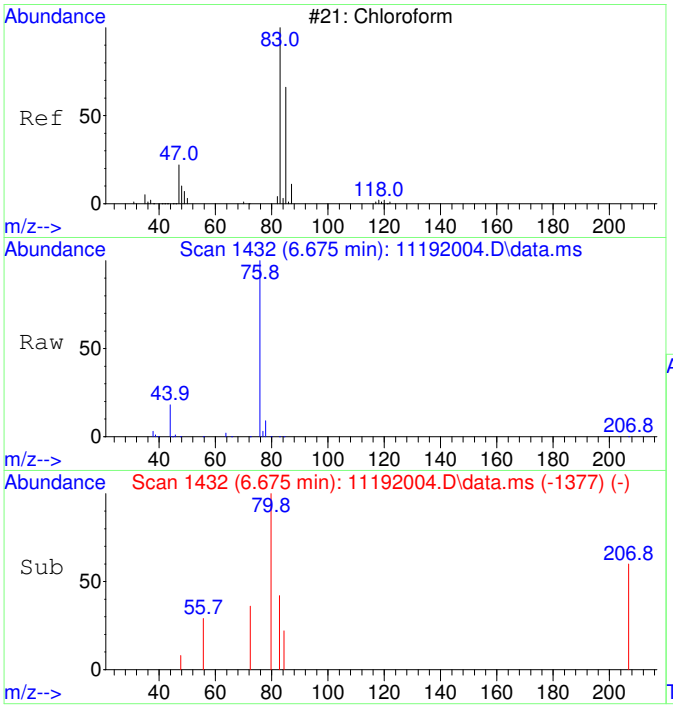


#29
cis-1,2-Dichloroethene SCAN
Concen: 30.94 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.020 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 61 Resp: 499

Ion	Ratio	Lower	Upper
61	100		
96	126.1	39.9	99.9#
98	15.2	13.5	73.5
64	1188.2	4.5	64.5#

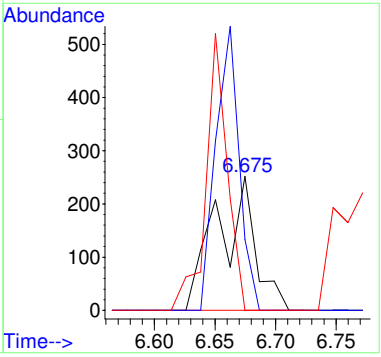


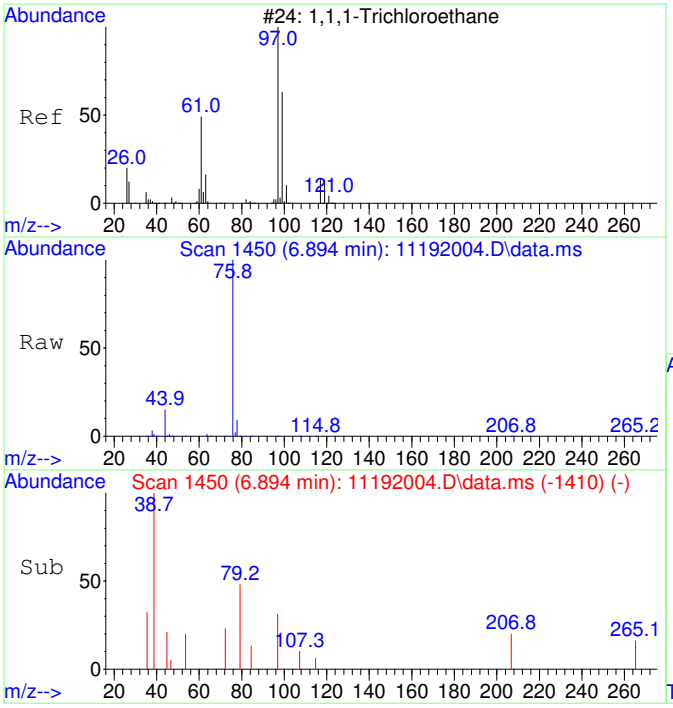


#30
Chloroform SCAN
Concen: 31.90 ug/L
RT: 6.675 min Scan# 1432
Delta R.T. 0.024 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 83 Resp: 558

Ion	Ratio	Lower	Upper
83	100		
85	128.9	34.6	94.6#
47	0.0	0.0	53.4

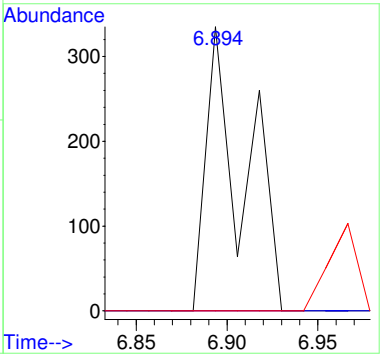


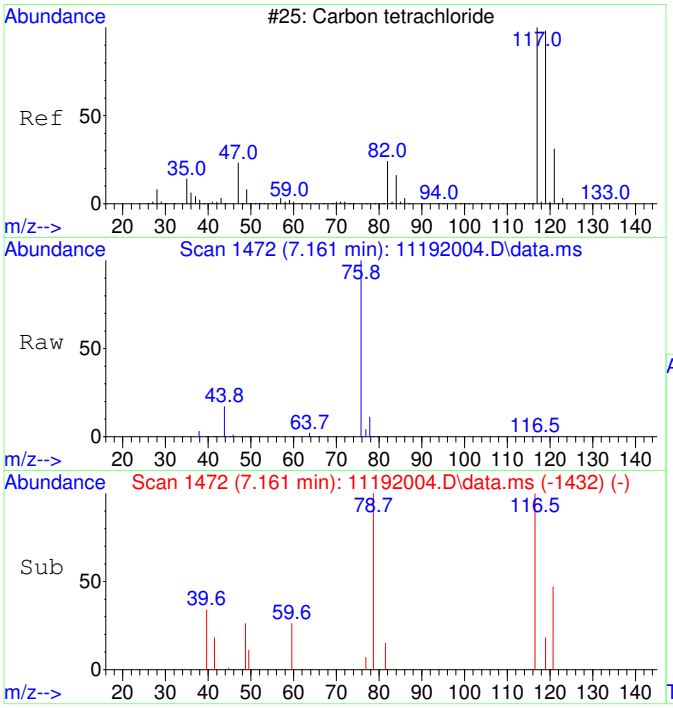


#31
1,1,1-Trichloroethane SCAN
Concen: 30.18 ug/L
RT: 6.894 min Scan# 1450
Delta R.T. -0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 481

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	0.0	18.0	78.0#

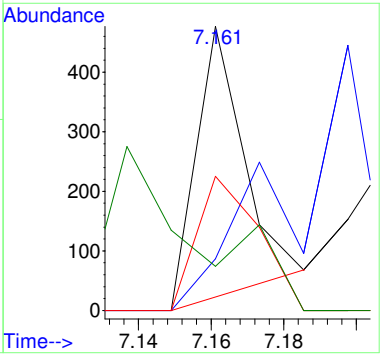


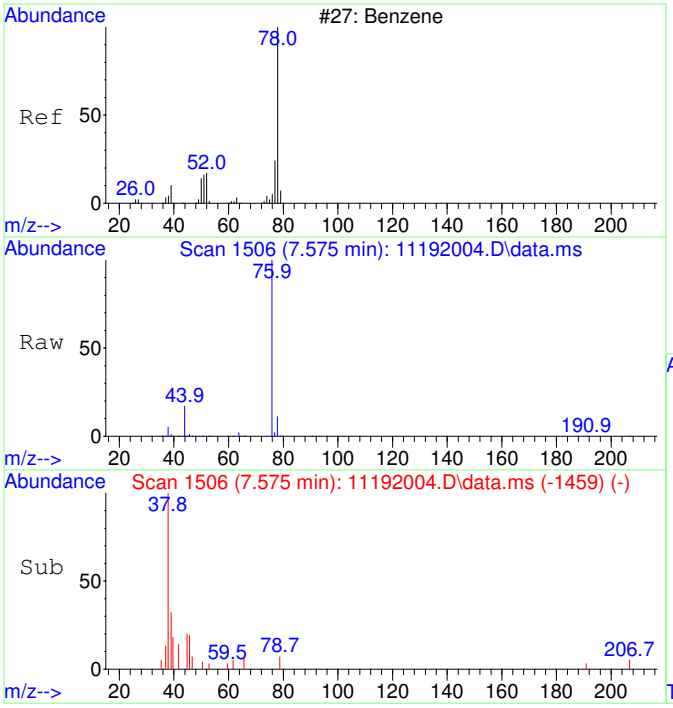


#32
Carbon tetrachloride SCAN
Concen: 25.80 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:117 Resp: 429

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	62.0	0.0	58.8#
82	0.0	0.0	59.2

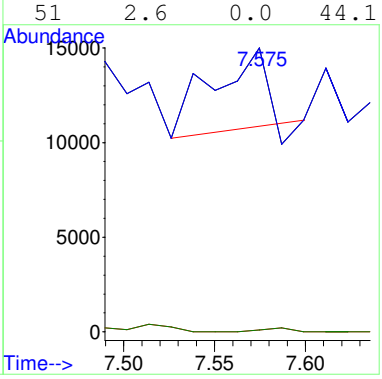


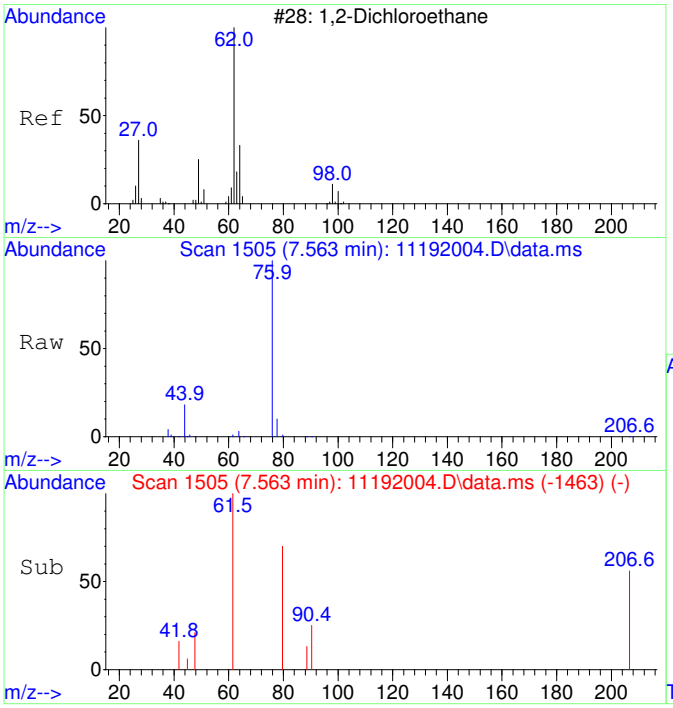


#33
Benzene SCAN
Concen: 191.43 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. 0.073 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 78 Resp: 8401

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	2.6	0.0	47.9
51	2.6	0.0	44.1

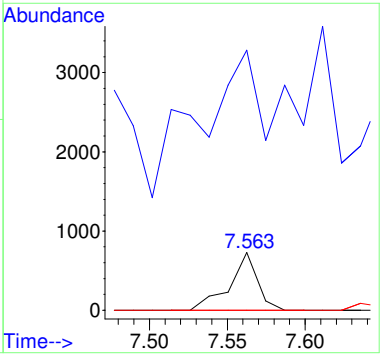


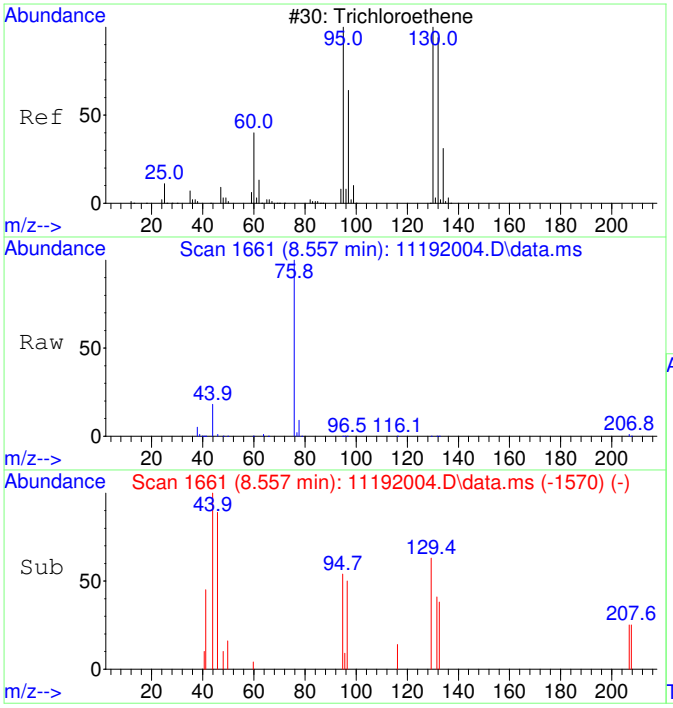


#34
1,2-Dichloroethane SCAN
Concen: 56.40 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 62 Resp: 914

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	0.0	3.9	63.9#

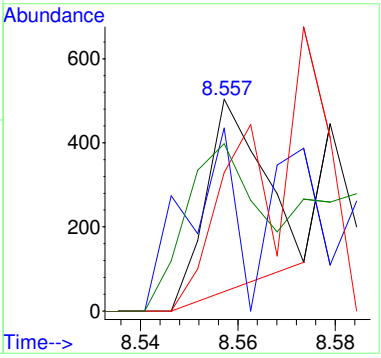


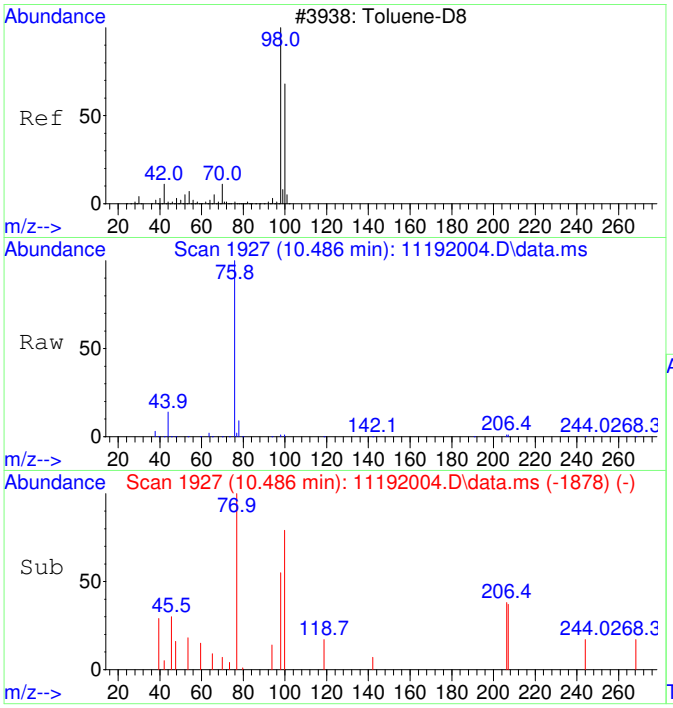


#35
Trichloroethene SCAN
Concen: 31.34 ug/L
RT: 8.557 min Scan# 1661
Delta R.T. -0.006 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:130 Resp: 378

Ion	Ratio	Lower	Upper
130	100		
95	77.2	60.5	120.5
132	0.0	59.6	119.6#
97	0.0	28.2	88.2#

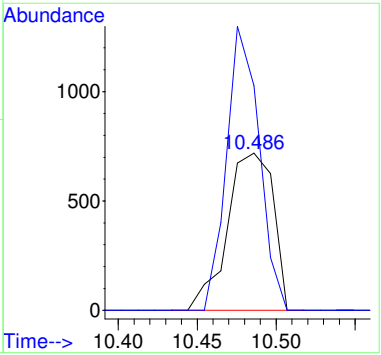


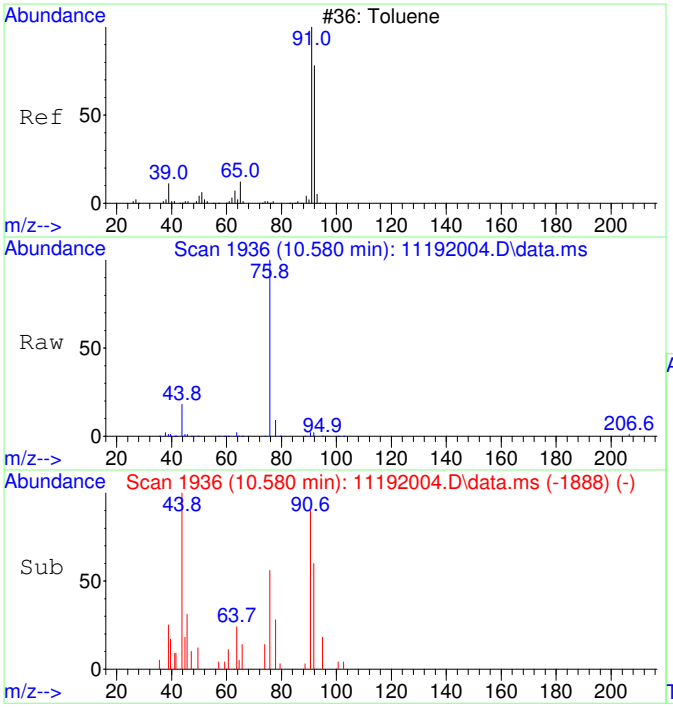


#36
Toluene-d8 SCAN
Concen: 30.15 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 98 Resp: 1459

Ion	Ratio	Lower	Upper
98	100		
100	128.1	40.0	100.0#

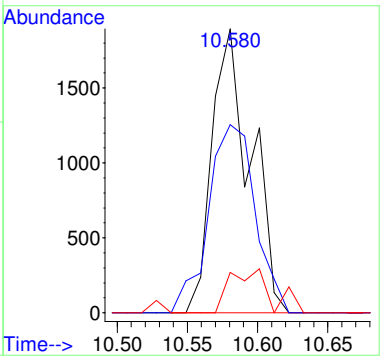


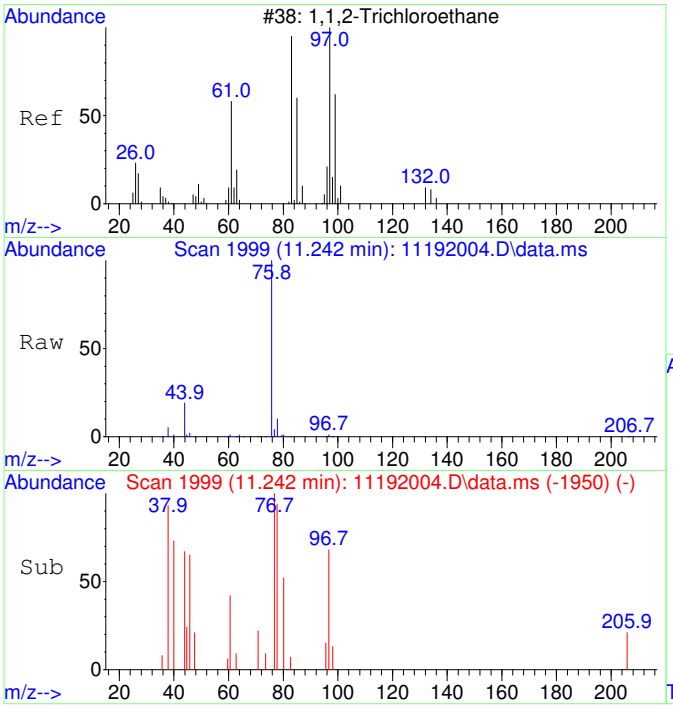


#37
Toluene SCAN
Concen: 58.81 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 3645

Ion	Ratio	Lower	Upper
91	100		
92	80.5	28.3	88.3
65	0.0	0.0	41.0

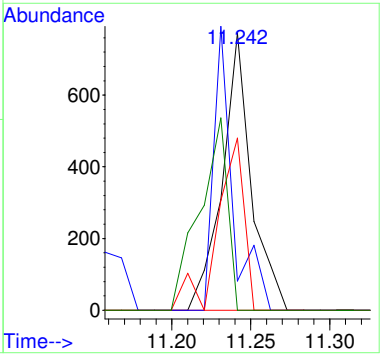


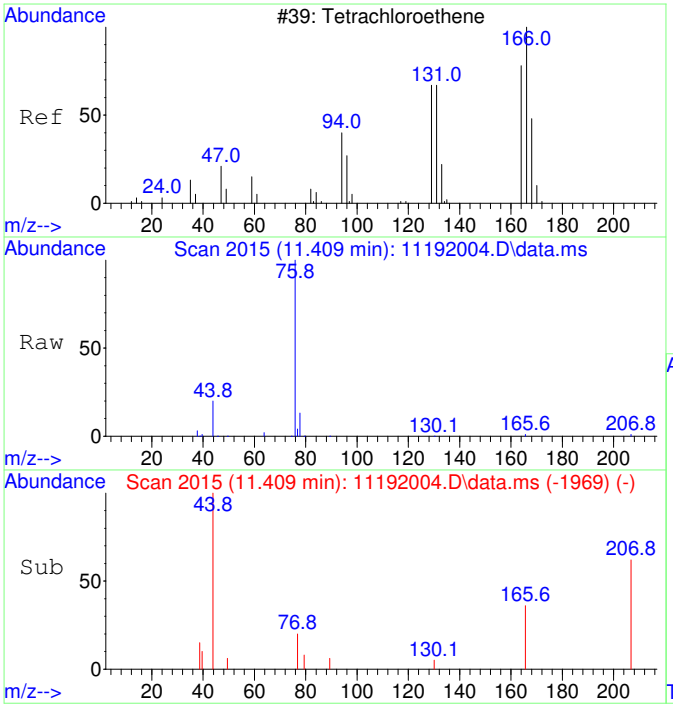


#38
1,1,2-Trichloroethane SCAN
Concen: 70.95 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. 0.010 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 97 Resp: 987

Ion	Ratio	Lower	Upper
97	100		
83	67.3	57.7	117.7
61	56.7	32.1	92.1
99	66.7	36.7	96.7

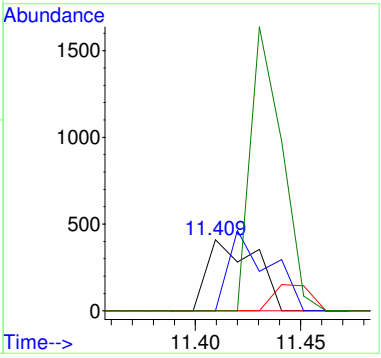


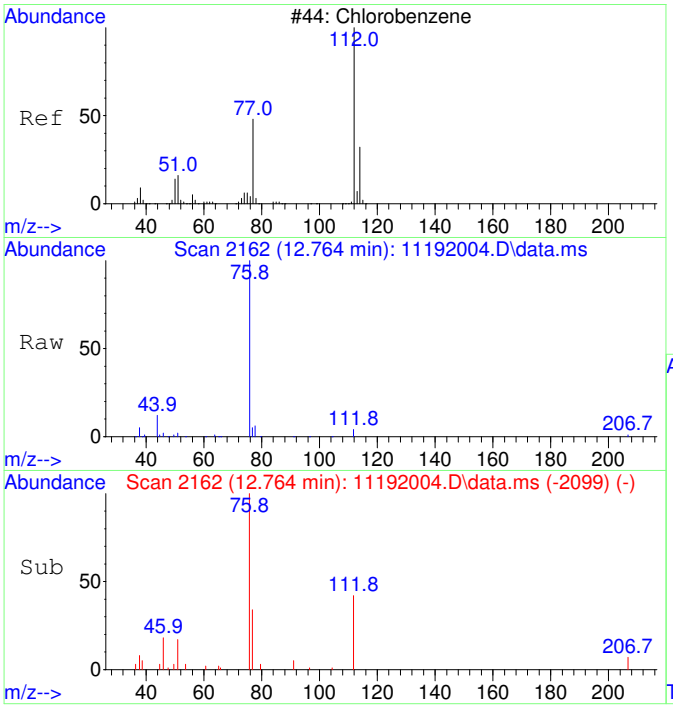


#39
Tetrachloroethene SCAN
Concen: 44.19 ug/L
RT: 11.409 min Scan# 2015
Delta R.T. -0.021 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:166 Resp: 658

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	0.0	38.7	98.7#
129	0.0	41.8	101.8#

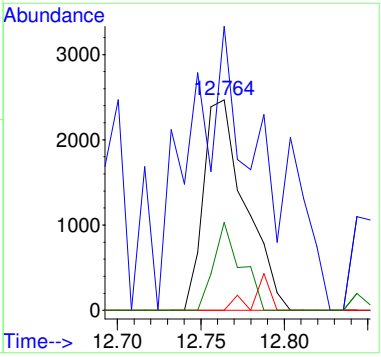


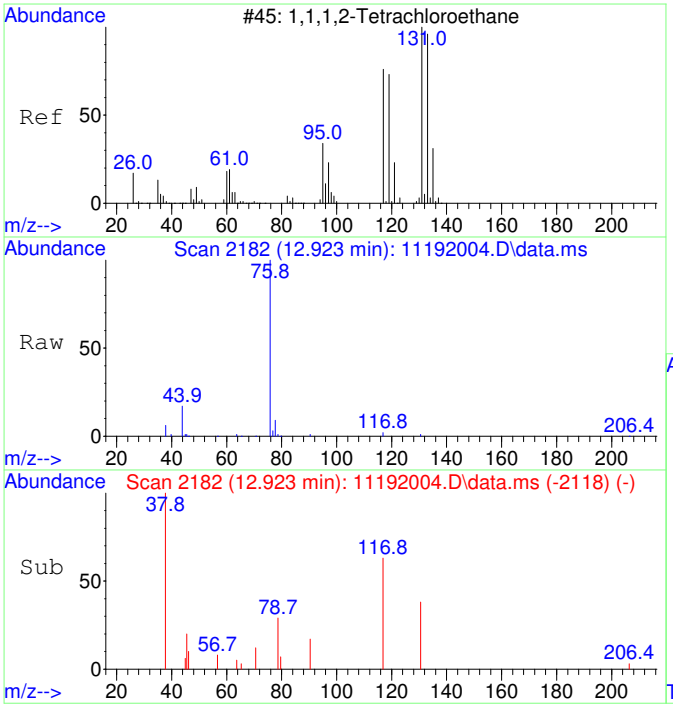


#40
Chlorobenzene SCAN
Concen: 101.72 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:112 Resp: 4308

Ion	Ratio	Lower	Upper
112	100		
77	242.9	28.2	88.2#
114	0.0	2.3	62.3#
51	27.3	0.0	50.1

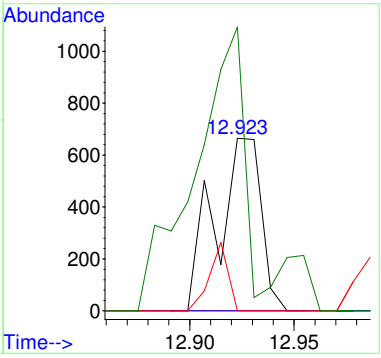


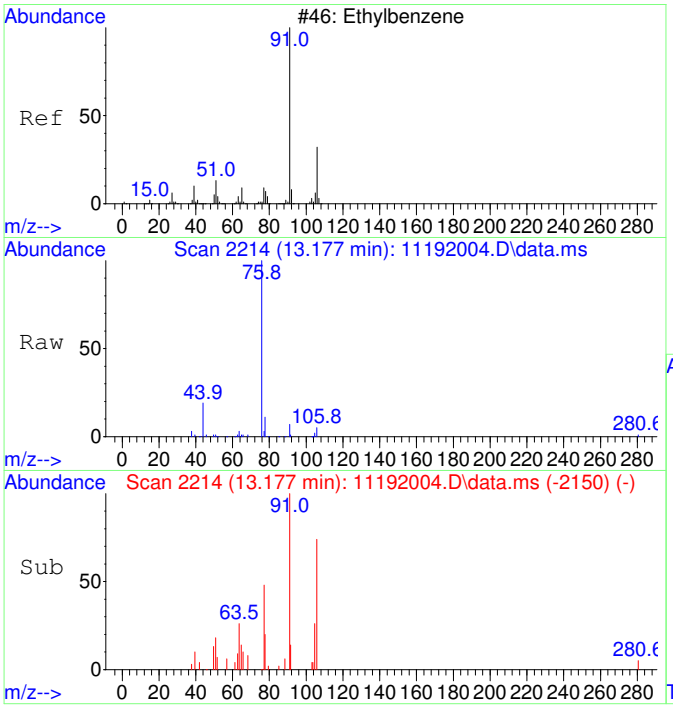


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 63.61 ug/L
RT: 12.923 min Scan# 2182
Delta R.T. 0.008 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:131 Resp: 997

Ion	Ratio	Lower	Upper
131	100		
133	0.0	66.9	126.9#
119	16.2	40.4	100.4#
117	167.4	35.1	95.1#

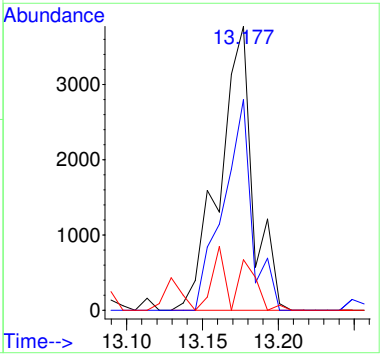


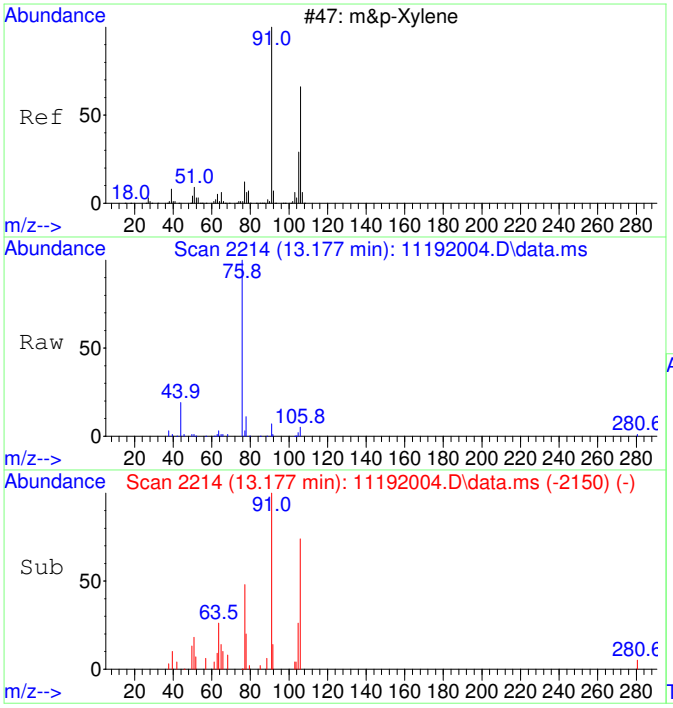


#42
Ethylbenzene SCAN
Concen: 51.37 ug/L
RT: 13.177 min Scan# 2214
Delta R.T. 0.008 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 5801

Ion	Ratio	Lower	Upper
91	100		
106	63.4	23.1	83.1
51	8.4	0.0	40.1

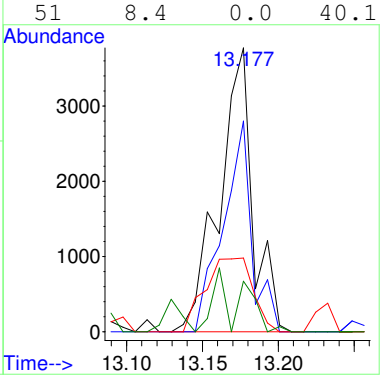


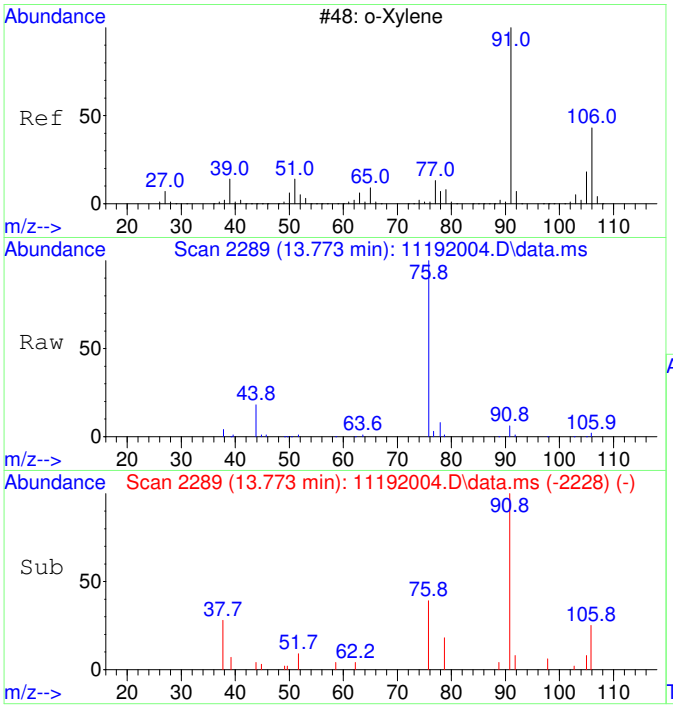


#43
m&p-Xylene SCAN
Concen: 51.37 ug/L
RT: 13.177 min Scan# 2214
Delta R.T. 0.008 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 5801

Ion	Ratio	Lower	Upper
91	100		
106	63.4	23.1	83.1
105	37.0	0.0	54.7
51	8.4	0.0	40.1

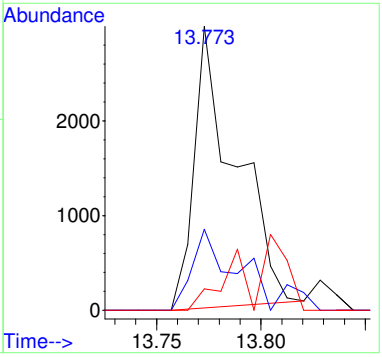


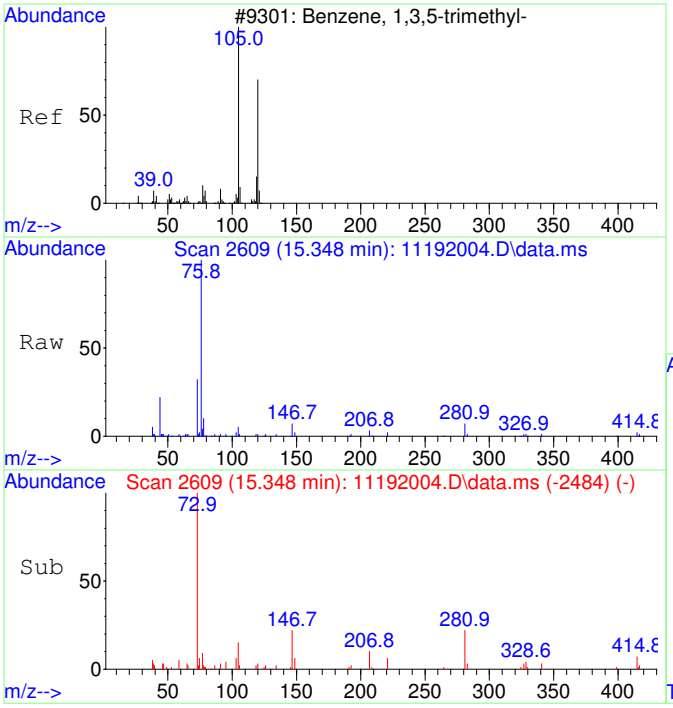


#44
o-Xylene SCAN
Concen: 68.13 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.016 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion: 91 Resp: 4118

Ion	Ratio	Lower	Upper
91	100		
106	34.4	18.0	78.0
105	12.5	0.0	56.6

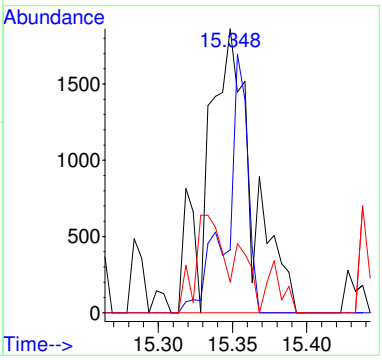


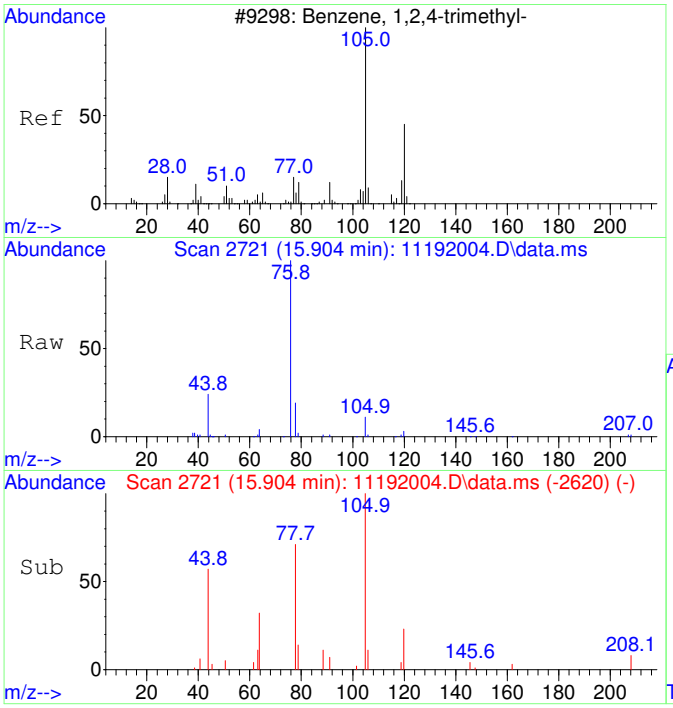


#46
1,3,5-Trimethylbenzene SCAN
Concen: 61.57 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 3922

Ion	Ratio	Lower	Upper
105	100		
120	42.0	18.3	78.3
119	5.5	0.0	43.1

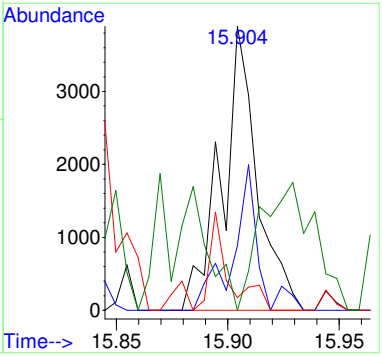


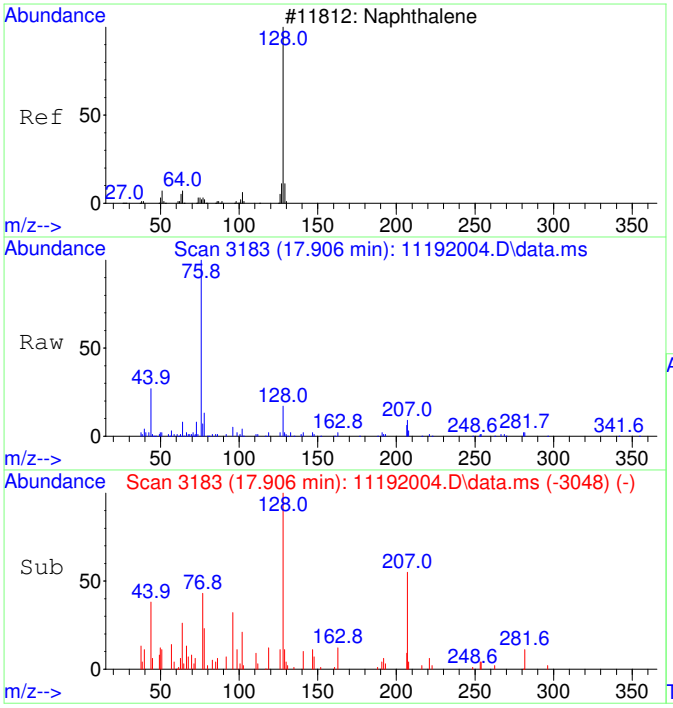


#47
1,2,4-Trimethylbenzene SCAN
Concen: 65.67 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. -0.000 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:105 Resp: 4280

Ion	Ratio	Lower	Upper
105	100		
120	36.8	16.9	76.9
119	23.3	0.0	41.9
77	0.0	0.0	42.3

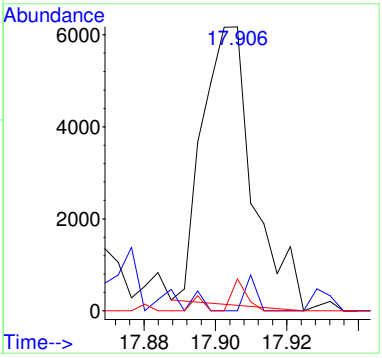




#48
Naphthalene SCAN
Concen: 60.34 ug/L
RT: 17.906 min Scan# 3183
Delta R.T. 0.001 min
Lab File: 11192004.D
Acq: 19 Nov 2020 9:33

Tgt Ion:128 Resp: 5951

Ion	Ratio	Lower	Upper
128	100		
127	2.9	0.0	44.0
129	3.3	0.0	40.8



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 20316C
Client: California Site Cleanup Section 3
Project: MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID: AG5975CV
Calibration: 2008017
Sequence: S20K096

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S20K096-CRL1	1,1-Dichloroethene	50.0	57.0	114	ug/L	60 - 140
	trans-1,2-Dichloroethene	50.0	62.7	125	ug/L	60 - 140
	1,1-Dichloroethane	50.0	49.7	99	ug/L	60 - 140
	cis-1,2-Dichloroethene	50.0	49.5	99	ug/L	60 - 140
	Chloroform	50.0	59.0	118	ug/L	60 - 140
	Trichloroethene	50.0	50.2	100	ug/L	60 - 140
	Tetrachloroethene	50.0	49.5	99	ug/L	60 - 140
	Toluene-d8	50.0	49.5	99	ug/L	60 - 140

CRL REPORT

Instrument Name: AG5975C
Sample Name: S20K096-CRL1
Misc Info: 2030073 0.05 mg/L
Date Acquired: 11/20/2020 10:52
Operator: ZAR
File ID: 11202004.D

#	Name	Ret Time	Concentration	Amount	%R	QC Limit	STATUS
2)	1,1-Dichloroethene	3.09	57.0	50.0	114%	60 - 140	pass
3)	trans-1,2-Dichloroethene	4.36	62.7	50.0	125%	60 - 140	pass
4)	1,1-Dichloroethane	5.09	49.7	50.0	99%	60 - 140	pass
5)	cis-1,2-Dichloroethene	6.08	49.5	50.0	99%	60 - 140	pass
6)	Chloroform	6.65	59.0	50.0	118%	60 - 140	pass
7)	1,1,1-Trichloroethane	6.91	46.4	50.0	93%	60 - 140	pass
8)	Carbon tetrachloride	7.17	47.0	50.0	94%	60 - 140	pass
9)	Benzene	7.50	52.4	50.0	105%	60 - 140	pass
10)	1,2-Dichloroethane	7.54	47.8	50.0	96%	60 - 140	pass
11)	Trichloroethene	8.57	50.2	50.0	100%	60 - 140	pass
12)	Toluene-d8	10.48	49.5	50.0	99%	60 - 140	pass
13)	Toluene	10.58	50.8	50.0	102%	60 - 140	pass
14)	1,1,2-Trichloroethane	11.23	48.2	50.0	96%	60 - 140	pass
15)	Tetrachloroethene	11.43	49.5	50.0	99%	60 - 140	pass
16)	Chlorobenzene	12.77	51.5	50.0	103%	60 - 140	pass
17)	1,1,1,2-Tetrachloroethane	12.92	49.4	50.0	99%	60 - 140	pass
18)	Ethylbenzene	12.97	51.5	50.0	103%	60 - 140	pass
19)	m&p-Xylene	13.16	102.4	100.0	102%	60 - 140	pass
20)	o-Xylene	13.78	50.0	50.0	100%	60 - 140	pass
21)	1,1,2,2-Tetrachloroethane	14.88	50.8	50.0	102%	60 - 140	pass
22)	1,3,5-Trimethylbenzene	15.35	51.9	50.0	104%	60 - 140	pass
23)	1,2,4-Trimethylbenzene	15.90	53.0	50.0	106%	60 - 140	pass
24)	Naphthalene	17.91	51.6	50.0	103%	60 - 140	pass
25)	2-Fluorotoluene SCAN	10.97	4965.9	5000.0	99%	60 - 140	pass

REVIEWED
By LLH at 2:29 pm, Nov 23, 2020

Quantitation Report (QT Reviewed)

Table of Contents

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202004.D
Acq On : 20 Nov 2020 10:52 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4
Multiplier: 1

M.I. Performed By:
LLH at 2:29 pm, Nov 23, 2020

M.I. Approved By:
ZR at 4:16 pm, Nov 23, 2020

Quant Time: Nov 23 14:28:27 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	522678	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.477	98	5065	49.50	ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	0.99%#			
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.093	61	1189m	56.97	ug/L		
3] trans-1,2-Dichloroethene	4.363	61	1512	62.70	ug/L		74
4] 1,1-Dichloroethane	5.086	63	1492	49.70	ug/L		66
5] cis-1,2-Dichloroethene	6.081	61	1569	49.52	ug/L		97
6] Chloroform	6.652	83	1912	58.96	ug/L		99
7] 1,1,1-Trichloroethane	6.907	97	1635	46.42	ug/L		98
8] Carbon tetrachloride	7.175	117	1557	46.97	ug/L		97
9] Benzene	7.503	78	4654	52.41	ug/L	#	7
10] 1,2-Dichloroethane	7.540	62	1515	47.79	ug/L	#	14
11] Trichloroethene	8.569	130	1342	50.19	ug/L		91
13] Toluene	10.582	91	6621	50.76	ug/L		98
14] 1,1,2-Trichloroethane	11.232	97	1369	48.16	ug/L		88
15] Tetrachloroethene	11.432	166	1869	49.51	ug/L		98
16] Chlorobenzene	12.765	112	4814	51.54	ug/L		64
17] 1,1,1,2-Tetrachloroethane	12.916	131	1653	49.39	ug/L		96
18] Ethylbenzene	12.972	91	8181	51.52	ug/L		96
19] m&p-Xylene	13.162	91	12711	102.43	ug/L		95
20] o-Xylene	13.782	91	6630	50.01	ug/L		95
21] 1,1,2,2-Tetrachloroethane	14.880	83	2987	50.83	ug/L		100
22] 1,3,5-Trimethylbenzene	15.350	105	7322	51.89	ug/L		96
23] 1,2,4-Trimethylbenzene	15.901	105	7762	52.95	ug/L		94
24] Naphthalene	17.906	128	11950	51.58	ug/L		98
25) 2-Fluorotoluene SCAN	10.969	109	253018	4965.86	ug/L		97
26) 1,1-Dichloroethene SCAN	3.107	61	477	44.08	ug/L	#	25
27) trans-1,2-Dichloroethe...	4.348	61	377	28.16	ug/L	#	17
29) cis-1,2-Dichloroethene...	6.086	61	1007	60.65	ug/L	#	60
30) Chloroform SCAN	6.662	83	1324	73.52	ug/L	#	70
31) 1,1,1-Trichloroethane ...	6.942	97	399	24.31	ug/L	#	19
32) Carbon tetrachloride SCAN	7.186	117	499	29.15	ug/L	#	69
33) Benzene SCAN	7.599	78	1498	33.15	ug/L		99
34) 1,2-Dichloroethane SCAN	7.538	62	497	29.79	ug/L	#	1
35) Trichloroethene SCAN	8.552	130	331	26.66	ug/L	#	1
36) Toluene-d8 SCAN	10.486	98	3445	69.14	ug/L		84
37) Toluene SCAN	10.591	91	3760	58.92	ug/L		87
38) 1,1,2-Trichloroethane ...	11.242	97	553	38.61	ug/L	#	56
39) Tetrachloroethene SCAN	11.431	166	1240	80.88	ug/L	#	20
40) Chlorobenzene SCAN	12.772	112	1907	43.73	ug/L	#	48
42) Ethylbenzene SCAN	13.177	91	8258	71.03	ug/L		70
43) m&p-Xylene SCAN	13.177	91	8258	71.03	ug/L		77
44) o-Xylene SCAN	13.797	91	4491	72.17	ug/L		86
45) 1,1,2,2-Tetrachloroeth...	14.864	83	653	21.52	ug/L	#	54
47) 1,2,4-Trimethylbenzene...	15.899	105	4390	65.42	ug/L	#	67
48) Naphthalene SCAN	17.909	128	5588	55.03	ug/L		79

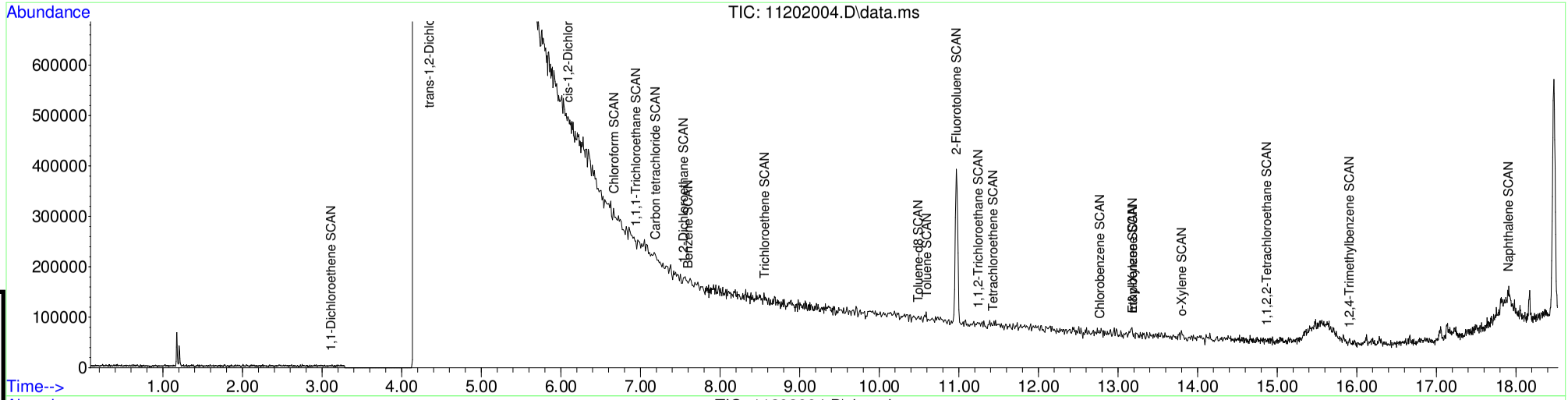
(#) = qualifier out of range (m) = manual integration (+) = signals summed

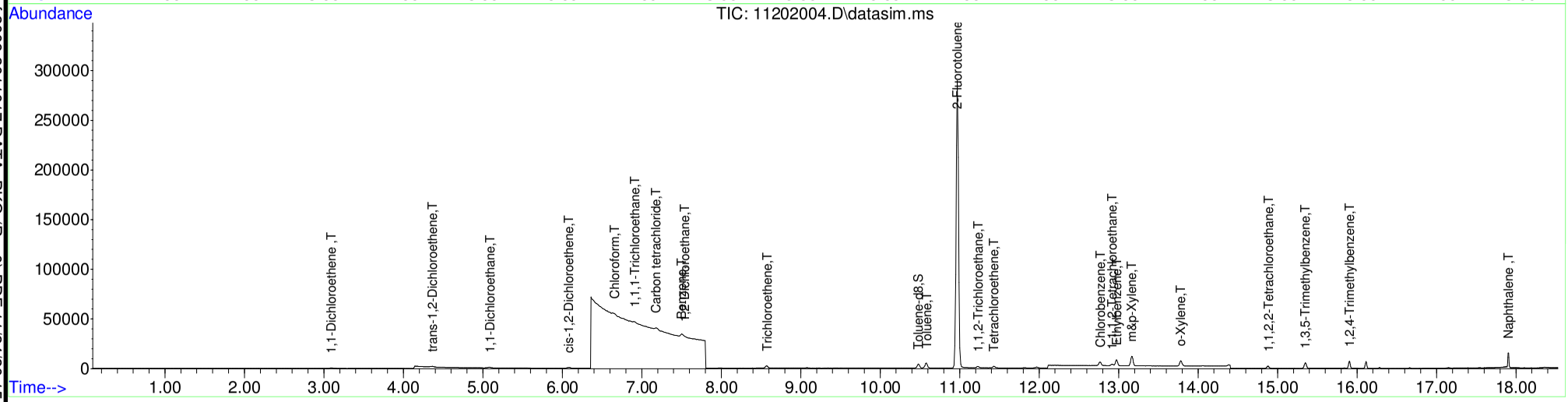
Quantitation Report (QT Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202004.D
Acq On : 20 Nov 2020 10:52 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4
Multiplier: 1

Quant Time: Nov 23 14:28:27 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M





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Quantitation Report (Not Reviewed)

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Before Manual Integration

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202004.D
Acq On : 20 Nov 2020 10:52 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4
Multiplier: 1

Quant Time: Nov 23 14:28:05 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	522678	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	5065	49.50	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.093	61	1618	77.52	ug/L #	45
3] trans-1,2-Dichloroethene	4.363	61	1512	62.70	ug/L	74
4] 1,1-Dichloroethane	5.086	63	1492	49.70	ug/L	66
5] cis-1,2-Dichloroethene	6.081	61	1569	49.52	ug/L	97
6] Chloroform	6.652	83	1912	58.96	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1635	46.42	ug/L	98
8] Carbon tetrachloride	7.175	117	1557	46.97	ug/L	97
9] Benzene	7.503	78	4654	52.41	ug/L #	7
10] 1,2-Dichloroethane	7.540	62	1515	47.79	ug/L #	14
11] Trichloroethene	8.569	130	1342	50.19	ug/L	91
13] Toluene	10.582	91	6621	50.76	ug/L	98
14] 1,1,2-Trichloroethane	11.232	97	1369	48.16	ug/L	88
15] Tetrachloroethene	11.432	166	1869	49.51	ug/L	98
16] Chlorobenzene	12.765	112	4814	51.54	ug/L	64
17] 1,1,1,2-Tetrachloroethane	12.916	131	1653	49.39	ug/L	96
18] Ethylbenzene	12.972	91	8181	51.52	ug/L	96
19] m&p-Xylene	13.162	91	12711	102.43	ug/L	95
20] o-Xylene	13.782	91	6630	50.01	ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.880	83	2987	50.83	ug/L	100
22] 1,3,5-Trimethylbenzene	15.350	105	7322	51.89	ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	7762	52.95	ug/L	94
24] Naphthalene	17.906	128	11950	51.58	ug/L	98
25) 2-Fluorotoluene SCAN	10.969	109	253018	4965.86	ug/L	97
26) 1,1-Dichloroethene SCAN	3.107	61	477	44.08	ug/L #	25
27) trans-1,2-Dichloroethe...	4.348	61	377	28.16	ug/L #	17
29) cis-1,2-Dichloroethene...	6.086	61	1007	60.65	ug/L #	60
30) Chloroform SCAN	6.662	83	1324	73.52	ug/L #	70
31) 1,1,1-Trichloroethane ...	6.942	97	399	24.31	ug/L #	19
32) Carbon tetrachloride SCAN	7.186	117	499	29.15	ug/L #	69
33) Benzene SCAN	7.599	78	1498	33.15	ug/L	99
34) 1,2-Dichloroethane SCAN	7.538	62	497	29.79	ug/L #	1
35) Trichloroethene SCAN	8.552	130	331	26.66	ug/L #	1
36) Toluene-d8 SCAN	10.486	98	3445	69.14	ug/L	84
37) Toluene SCAN	10.591	91	3760	58.92	ug/L	87
38) 1,1,2-Trichloroethane ...	11.242	97	553	38.61	ug/L #	56
39) Tetrachloroethene SCAN	11.431	166	1240	80.88	ug/L #	20
40) Chlorobenzene SCAN	12.772	112	1907	43.73	ug/L #	48
42) Ethylbenzene SCAN	13.177	91	8258	71.03	ug/L	70
43) m&p-Xylene SCAN	13.177	91	8258	71.03	ug/L	77
44) o-Xylene SCAN	13.797	91	4491	72.17	ug/L	86
45) 1,1,2,2-Tetrachloroeth...	14.864	83	653	21.52	ug/L #	54
47) 1,2,4-Trimethylbenzene...	15.899	105	4390	65.42	ug/L #	67
48) Naphthalene SCAN	17.909	128	5588	55.03	ug/L	79

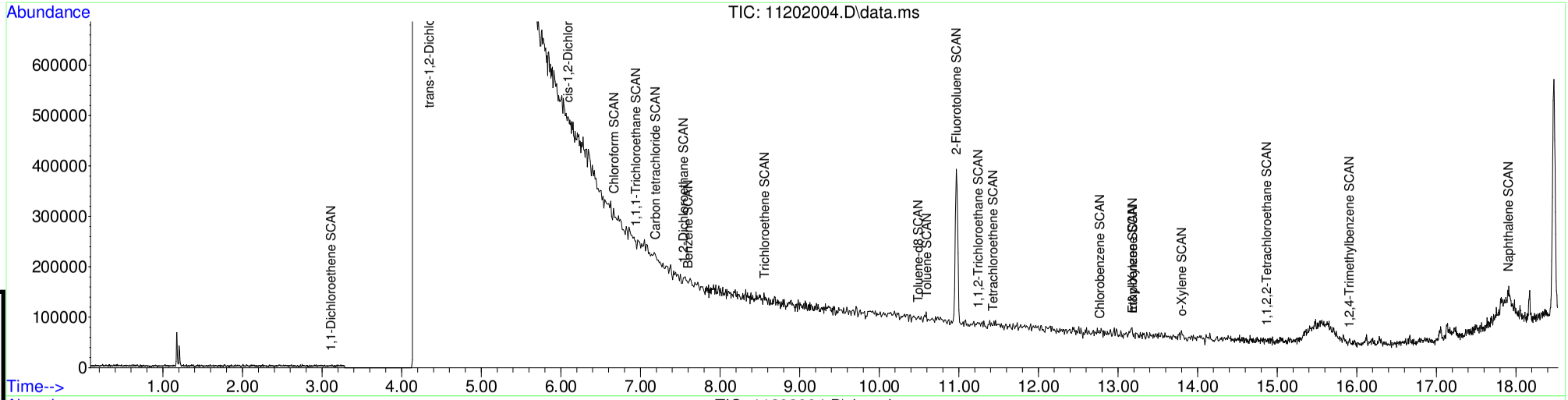
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202004.D
Acq On : 20 Nov 2020 10:52 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4
Multiplier: 1

Quant Time: Nov 23 14:28:05 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M



Page 1949 of 2009 2011017 DATA_PKG (Rev0).PDF 11/24/20 15:01:25

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Quantitation Report (Qedit)

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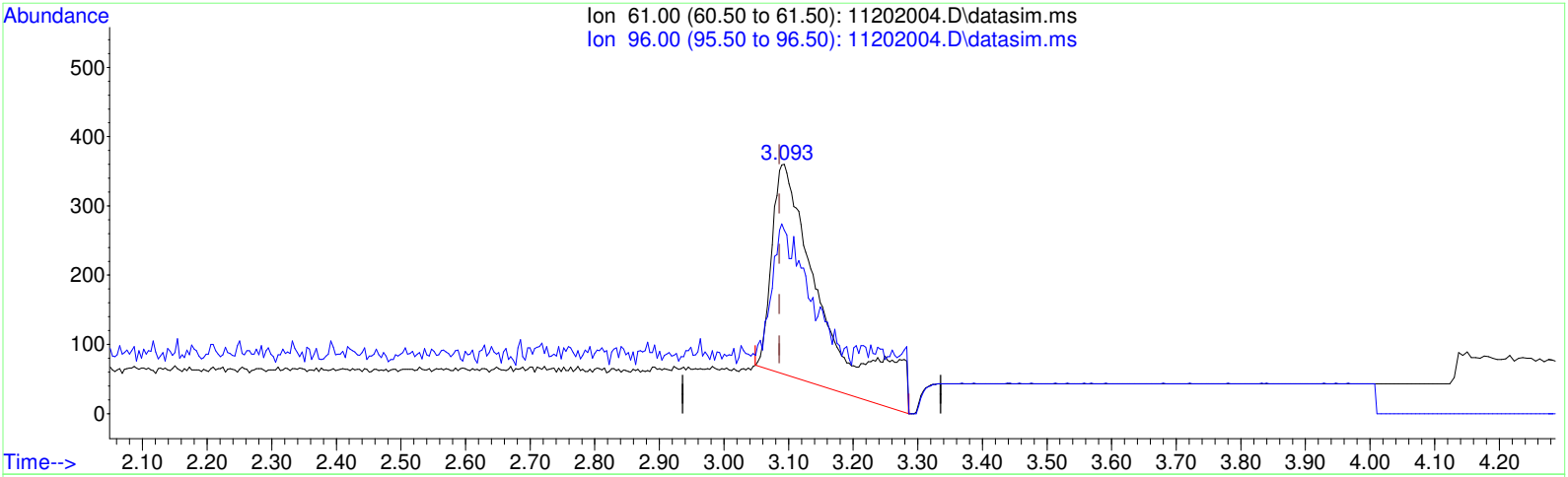
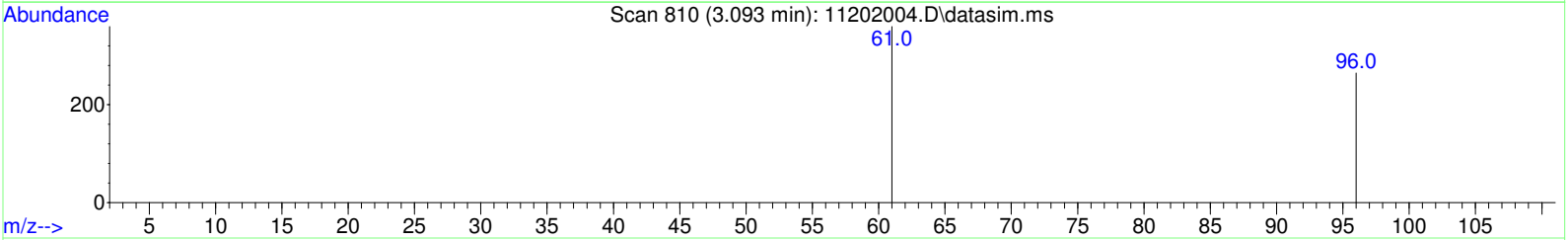
Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202004.D
Acq On : 20 Nov 2020 10:52 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4
Multiplier: 1

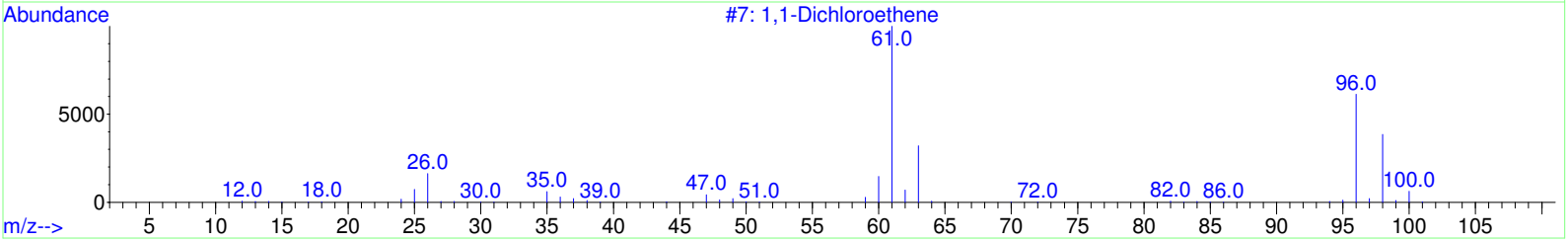
Before MI: IMPROPER BASELINE

Quant Time: Nov 23 14:28:05 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M







TIC: 11202004.D\data.ms

(2) 1,1-Dichloroethene (T)

3.093min (+ 0.007) 77.52 ug/L

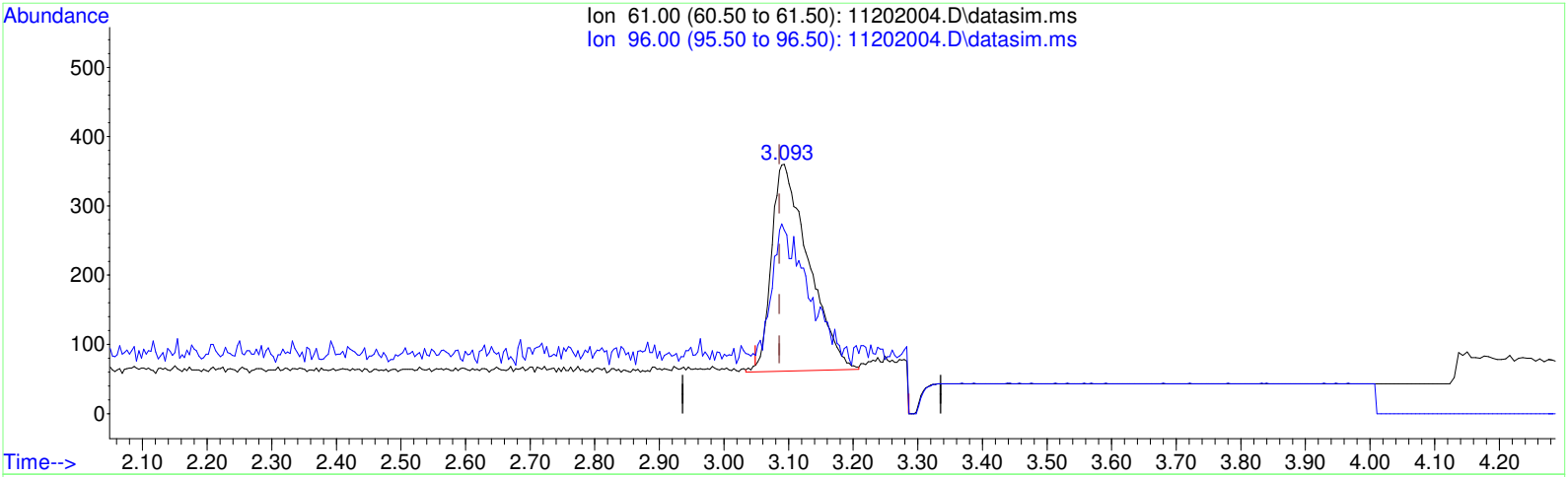
response 1618

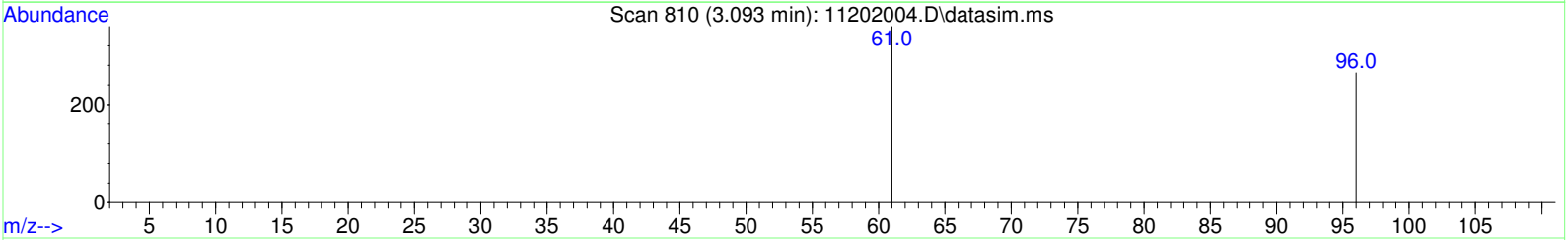
Ion	Exp%	Act%
61.00	100.00	100.00
96.00	67.20	23.36#
0.00	0.00	0.00
0.00	0.00	0.00

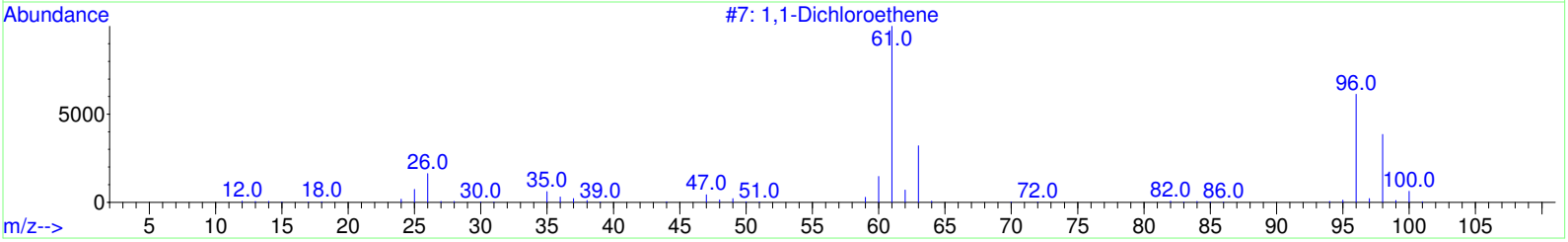
Data Path : I:\DATA\ROOM317\AG5975C\DATA\2020\112020\
Data File : 11202004.D
Acq On : 20 Nov 2020 10:52 am
Instrument: AG5975C
Operator : ZAR
Sample : S20K096-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4
Multiplier: 1

Quant Time: Nov 23 14:28:05 2020
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Mon Nov 16 10:20:51 2020
Response via : Initial Calibration

DataAcq Meth:111920.M
Quant Method : I:\DATA\ROOM317\AG5975C\METHODS\2020\111920.M







TIC: 11202004.D\data.ms

(2) 1,1-Dichloroethene (T)

3.093min (+ 0.007) 56.97 ug/L m

response 1189

Ion	Exp%	Act%
61.00	100.00	100.00
96.00	67.20	31.79#
0.00	0.00	0.00
0.00	0.00	0.00

SECOND SOURCE CALIBRATION CHECK

Radiello D1

Laboratory:	EPA Region 9 Laboratory	SDG:	20316C
Client:	California Site Cleanup Section 3	Project:	MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID:	AG5975CV	Calibration:	2008017
Lab File ID:	08202009.D	Calibration Date:	08/20/20 08:58
Sequence:	S20H039	Injection Date:	08/20/20
Lab Sample ID:	S20H039-SCV1	Injection Time:	17:49

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	SCV	ICAL	SCV	MIN (#)	SCV	LIMIT (#)
1,1-Dichloroethene	L	5000	4700	0.199658	0.187566		-6.1	30
trans-1,2-Dichloroethene	L	5000	4480	0.2306789	0.2066403		-10.4	30
1,1-Dichloroethane	L	5000	4340	0.2871509	0.2494941		-13.1	30
cis-1,2-Dichloroethene	L	5000	4360	0.3031076	0.2644656		-12.7	30
Chloroform	L	5000	4400	0.3102422	0.2730662		-12.0	30
1,1,1-Trichloroethane	L	5000	4360	0.336926	0.2938973		-12.8	30
Carbon tetrachloride	L	5000	4380	0.317117	0.2778545		-12.4	30
1,2-Dichloroethane	L	5000	4390	0.3032627	0.2664166		-12.2	30
Trichloroethene	L	5000	4350	0.2557817	0.222477		-13.0	30
Toluene	L	5000	4060	1.247885	1.01282		-18.8	30
1,1,2-Trichloroethane	L	5000	4270	0.2719141	0.2320406		-14.7	30
Tetrachloroethene	L	5000	4270	0.3611354	0.3081805		-14.7	30
Chlorobenzene	L	5000	4270	0.8935316	0.7631763		-14.6	30
1,1,1,2-Tetrachloroethane	L	5000	4290	0.3201707	0.2750013		-14.1	30
Ethylbenzene	L	5000	4430	1.274189	0.9863389		-11.3	30
m&p-Xylene	L	10000	8120	1.187145	0.9638956		-18.8	30
o-Xylene	L	5000	4160	1.268312	1.055418		-16.8	30
1,1,2,2-Tetrachloroethane	L	5000	4220	0.5621058	0.4740014		-15.7	30
1,3,5-Trimethylbenzene	L	5000	4180	1.349968	1.127848		-16.5	30
1,2,4-Trimethylbenzene	L	5000	4010	1.402209	1.124775		-19.8	30
Toluene-d8	L	5000	4330	0.9788037	0.8472353		-13.4	30

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202009.D
Acq On : 20 Aug 2020 17:49
InstName : AG5975C
Operator : TD
Sample : S20H039-SCV1
Misc : 2030074 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 08:34:36 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

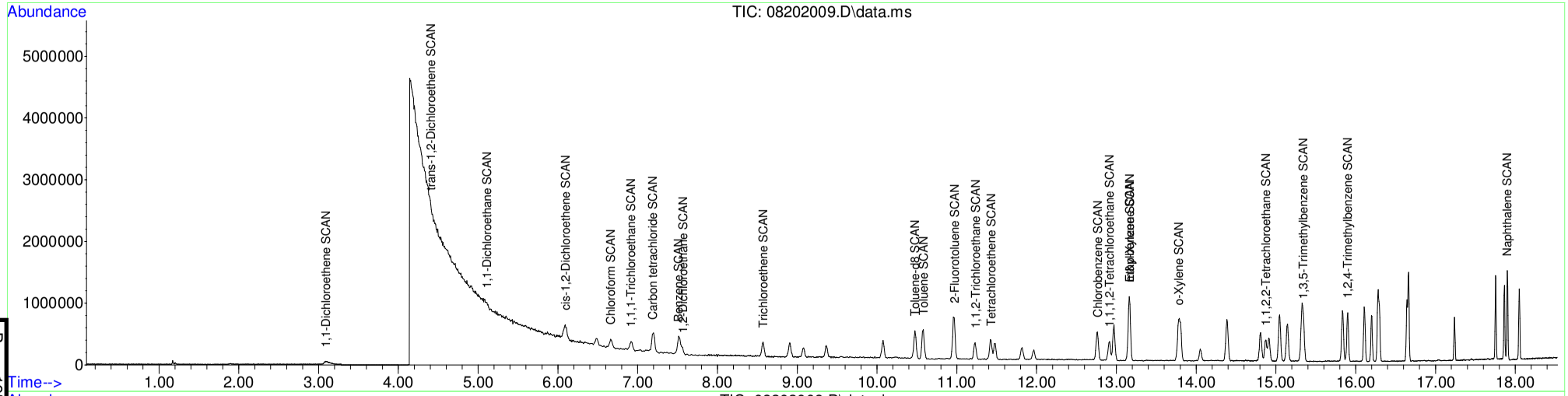
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.959	109	757040	5000.00 ug/L	-0.01
System Monitoring Compounds					
12) Toluene-d8	10.477	98	641391	4327.91 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.56%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.089	61	141995	4697.18 ug/L	84
3] trans-1,2-Dichloroethene	4.409	61	156435	4478.96 ug/L	98
4] 1,1-Dichloroethane	5.105	63	188877	4344.30 ug/L	99
5] cis-1,2-Dichloroethene	6.094	61	200211	4362.57 ug/L	99
6] Chloroform	6.664	83	206722	4400.85 ug/L	100
7] 1,1,1-Trichloroethane	6.919	97	222492	4361.45 ug/L	99
8] Carbon tetrachloride	7.187	117	210347	4380.95 ug/L	100
9] Benzene	7.515	78	543380	4224.52 ug/L	99
10] 1,2-Dichloroethane	7.552	62	201688	4392.50 ug/L	98
11] Trichloroethene	8.569	130	168424	4348.96 ug/L	93
13] Toluene	10.571	91	766745	4058.14 ug/L	99
14] 1,1,2-Trichloroethane	11.222	97	175664	4266.80 ug/L	97
15] Tetrachloroethene	11.421	166	233305	4266.83 ug/L	100
16] Chlorobenzene	12.757	112	577755	4270.56 ug/L	93
17] 1,1,1,2-Tetrachloroethane	12.908	131	208187	4294.60 ug/L	100
18] Ethylbenzene	12.964	91	952897	4143.40 ug/L	98
19] m&p-Xylene	13.162	91	1459415	8119.44 ug/L	97
20] o-Xylene	13.774	91	798994	4160.72 ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.873	83	358838	4216.30 ug/L	100
22] 1,3,5-Trimethylbenzene	15.340	105	853826	4177.31 ug/L	97
23] 1,2,4-Trimethylbenzene	15.896	105	851500	4010.73 ug/L	96
24] Naphthalene	17.902	128	1385206	4128.17 ug/L	100
25) 2-Fluorotoluene SCAN	10.969	109	369181	5002.63 ug/L	96
26) 1,1-Dichloroethene SCAN	3.095	61	79153	5050.47 ug/L #	26
27) trans-1,2-Dichloroethe...	4.408	61	82682	4263.38 ug/L	86
28) 1,1-Dichloroethane SCAN	5.111	63	103619	4616.73 ug/L	95
29) cis-1,2-Dichloroethene...	6.093	61	108450	4509.94 ug/L #	76
30) Chloroform SCAN	6.662	83	116757	4476.50 ug/L	95
31) 1,1,1-Trichloroethane ...	6.918	97	110368	4643.51 ug/L	93
32) Carbon tetrachloride SCAN	7.185	117	106486	4295.03 ug/L	86
33) Benzene SCAN	7.514	78	297664	4548.46 ug/L	96
34) 1,2-Dichloroethane SCAN	7.562	62	107394	4444.21 ug/L	98
35) Trichloroethene SCAN	8.568	130	79510	4421.13 ug/L	85
36) Toluene-d8 SCAN	10.475	98	338745	4693.60 ug/L	93
37) Toluene SCAN	10.580	91	401544	4344.47 ug/L	99
38) 1,1,2-Trichloroethane ...	11.231	97	88219	4252.37 ug/L	89
39) Tetrachloroethene SCAN	11.430	166	104871	4722.81 ug/L	94
40) Chlorobenzene SCAN	12.764	112	279082	4418.85 ug/L	91
41) 1,1,1,2-Tetrachloroeth...	12.915	131	96758	4139.72 ug/L	95
42) Ethylbenzene SCAN	13.161	91	746698	4434.47 ug/L	90
43) m&p-Xylene SCAN	13.161	91	746698	4434.47 ug/L	91
44) o-Xylene SCAN	13.781	91	405263	4496.31 ug/L	96
45) 1,1,2,2-Tetrachloroeth...	14.875	83	198460	4515.61 ug/L	95
46) 1,3,5-Trimethylbenzene...	15.343	105	412807	4345.78 ug/L	99
47) 1,2,4-Trimethylbenzene...	15.899	105	420213	4323.35 ug/L	94
48) Naphthalene SCAN	17.901	128	615008	4181.64 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\082020\
Data File : 08202009.D
Acq On : 20 Aug 2020 17:49
InstName : AG5975C
Operator : TD
Sample : S20H039-SCV1
Misc : 2030074 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 08:34:36 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\082020.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



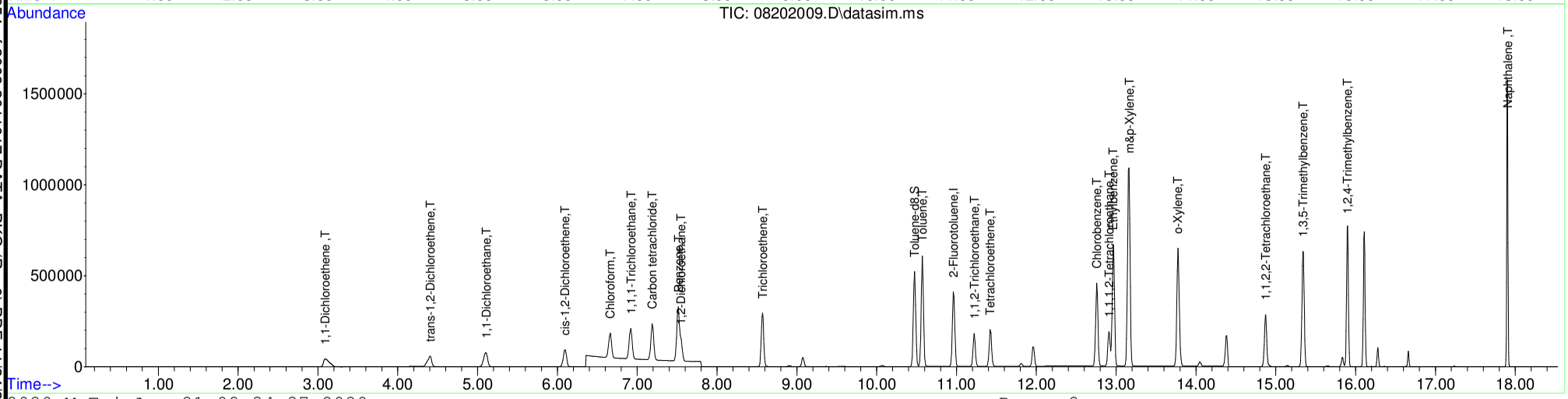


Table of Contents

Analytical Standard Record

EPA Region 9 Laboratory

1639096

Description:	2-Fluorotlouene	**Expires:**	12/31/29
Standard Type:	Other Solution	**Prepared:**	09/22/16
Solvent:	na	**Prepared By:**	** Vendor **
Final Volume (mls):	100	**Department:**	Volatiles
Vials:	1	**Last Edit:**	09/22/16 11:46 by RH
Vendor:		**Lot Numbe**	STBF8552V

Aldrich; Cat # F15323-100G, bar code #AU008468

Analyte	CAS Number	Concentration (ppm)
2-Fluorotoluene	95-52-3	1000000

SIGMA-ALDRICH®

3050 Spruce Street, Saint Louis, MO 63103 USA
Email USA: techserv@sial.com Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:	2-FLUOROTOLUENE
	>= 99 %
Product Number:	F15323
Batch Number:	STBF8552V
Brand:	Aldrich
CAS Number:	95-52-3
Formula:	$CH_3C_6H_4F$
Formula Weight:	110.13
Quality Release Date:	14 SEP 2015

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	COLORLESS TO VERY FAINT YELLOW	VERY FAINT YELLOW
APPEARANCE (FORM)	LIQUID	LIQUID
COLOR (IN APHA)	≤ 50 APHA	40 APHA
PURITY (GC AREA %)	≥ 99.0 %	99.9 %
INFRARED SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS

Dr. Claudia Geitner
Manager Quality Control
Steinheim, Germany

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Analytical Standard Record

EPA Region 9 Laboratory

1740054

Description:	VOA BFB tuning mix, stock STD.	**Expires:**	11/30/22
Standard Type:	Other Solution	**Prepared:**	10/03/17
Solvent:	Solvent Lot #	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	10/03/17 14:37 by YNB
Vendor:	Restek	**Lot Numbe**	A0129653

RESTEK Cat No. 30003, LOT # A0129653, Bar code #AU009457

Analyte	CAS Number	Concentration (ppm)
4-Bromofluorobenzene	460-00-4	5000

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30003 **Lot No.:** A0129653

Description : VOA Tuning Compound Mix

VOA Tuning Compound Mix 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KOV) **Purity** 99%	5,002.0 µg/mL	+/- 29.3545	µg/mL	Gravimetric
			+/- 280.4856	µg/mL	Unstressed
			+/- 287.0473	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

A4009453	1740050
54	51
55	52
56	53
57	54

Analytical Standard Record

EPA Region 9 Laboratory

1843069

Description:	VOA 502/524 VOC Mix, Stock	**Expires:**	09/30/20
Standard Type:	Other Solution	**Prepared:**	10/24/18
Solvent:	MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1.15	**Department:**	Volatiles
Vials:	1	**Last Edit:**	10/24/18 12:14 by YNB
Vendor:	Sigma Aldrich	**Lot Numbe**	LRAC0242

Sigma-Aldrich (Supelco), Cat # 502111, Lot# LRAC0242, bar code AU010582

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromo-3-chloropropane	96-12-8	2000
1,1,1,2-Tetrachloroethane	630-20-6	2000
Benzene	71-43-2	2000
4-Chlorotoluene	106-43-4	2000
2-Chlorotoluene	95-49-8	2000
2,2-Dichloropropane	594-20-7	2000
1,4-Dichlorobenzene	106-46-7	2000
1,3-Dichloropropane	142-28-9	2000
1,3-Dichlorobenzene	541-73-1	2000
1,3,5-Trimethylbenzene	108-67-8	2000
1,2-Dichloropropane	78-87-5	2000
1,2-Dichloroethane	107-06-2	2000
Bromochloromethane	74-97-5	2000
1,2-Dibromoethane (EDB)	106-93-4	2000
Bromodichloromethane	75-27-4	2000
1,2,4-Trimethylbenzene	95-63-6	2000
1,2,4-Trichlorobenzene	120-82-1	2000
1,2,3-Trimethylbenzene	526-73-8	2000
1,2,3-Trichloropropane	96-18-4	2000
1,2,3-Trichlorobenzene	87-61-6	2000
1,1-Dichloropropene	563-58-6	2000
1,1-Dichloroethene	75-35-4	2000
1,1-Dichloroethane	75-34-3	2000
1,1,2-Trichloroethane	79-00-5	2000
1,1,2,2-Tetrachloroethane	79-34-5	2000
1,1,1-Trichloroethane	71-55-6	2000
1,2-Dichlorobenzene	95-50-1	2000
Hexachlorobutadiene	87-68-3	2000
trans-1,3-Dichloropropene	10061-02-6	2000
trans-1,2-Dichloroethene	156-60-5	2000

Analytical Standard Record

EPA Region 9 Laboratory

1843069

Toluene	108-88-3	2000
Tetrachloroethene	127-18-4	2000
tert-Butylbenzene	98-06-6	2000
Styrene	100-42-5	2000
sec-Butylbenzene	135-98-8	2000
Propylbenzene	103-65-1	2000
p-Isopropyltoluene	99-87-6	2000
o-Xylene	95-47-6	2000
Naphthalene	91-20-3	2000
Bromobenzene	108-86-1	2000
Isopropylbenzene	98-82-8	2000
Trichloroethene	79-01-6	2000
Ethylbenzene	100-41-4	2000
Dichloromethane	75-09-2	2000
Dibromomethane	74-95-3	2000
cis-1,3-Dichloropropene	10061-01-5	2000
cis-1,2-Dichloroethene	156-59-2	2000
Chloroform	67-66-3	2000
Chlorodibromomethane	124-48-1	2000
Chlorobenzene	108-90-7	2000
Carbon tetrachloride	56-23-5	2000
Butylbenzene	104-51-8	2000
Bromoform	75-25-2	2000
m&p-Xylene	179601-23-1	4000

Certificate of Analysis

502/524 VOLATILE ORGANICS CALIBRATION

Certified Reference Material

Product ID 502111
Lot **LRAC0242**
Expiration Date September 2020
MFG Date September 2018
Storage Conditions Freeze
Solvent/Matrix METHANOL

Analyte	*Units*	*Certified Value* [1,4]	*Analytical Value*	*Raw Material Purity,%*	*Raw Material lot*	*Elution order*	*CAS*
1,1-DICHLOROETHYLENE	µg/ml	2000 ± 170	2120	99.9998	LC08188	1	75-35-4
DICHLOROMETHANE	µg/ml	2000 ± 140	2040	99.99	SHBK1353	2	75-09-2
TRANS-1,2-DICHLOROETHYLENE	µg/ml	2000 ± 140	2040	99.7	MKBH9850V	3	156-60-5
1,1-DICHLOROETHANE	µg/ml	2001 ± 130	1980	99.9	LB68167	4	75-34-3
2,2-DICHLOROPROPANE	µg/ml	2000 ± 135	2010	98.4	BCBR0622V	5	594-20-7
CIS-1,2-DICHLOROETHYLENE	µg/ml	2001 ± 130	2010	99.9	LB73428	6	156-59-2
CHLOROFORM	µg/ml	2000 ± 120	2000	99.94	MKBV7632V	7	67-66-3
BROMOCHLOROMETHANE	µg/ml	2001 ± 110	1990	98.9	LB39040	8	74-97-5
1,1,1-TRICHLOROETHANE	µg/ml	2000 ± 140	2020	97.2	LC06533	9	71-55-6
1,1-DICHLOROPROPYLENE	µg/ml	2001 ± 125	1990	99.5	7738900	10	563-58-6
CARBON TETRACHLORIDE	µg/ml	2000 ± 140	1990	99.97	02041MB	11	56-23-5
1,2-DICHLOROETHANE	µg/ml	2001 ± 110	2010	99.9	LB74294	12	107-06-02
BENZENE	µg/ml	2000 ± 120	1970	99.99	SHBJ5344	13	71-43-2
TRICHLOROETHYLENE	µg/ml	2001 ± 110	2010	98.6	LB86674	14	79-01-6
1,2-DICHLOROPROPANE	µg/ml	2001 ± 120	1980	99.9	LC14320	15	78-87-5
BROMODICHLOROMETHANE	µg/ml	2001 ± 120	1980	97.9	MKCF8470	16	75-27-4
DIBROMOMETHANE	µg/ml	2001 ± 110	2030	98.8	LB81118	17	74-95-3
TRANS 1,3-DICHLOROPROPENE	µg/ml	2002 ± 120	1970	99	ZDMSLEK	18	10061-02-06
TOLUENE	µg/ml	2000 ± 110	2010	99.98	MKCF0747	19	108-88-3
CIS 1,3-DICHLOROPROPENE	µg/ml	2001 ± 120	1990	99.3	MKBZ5000V	20	10061-01-5
1,1,2-TRICHLOROETHANE	µg/ml	2000 ± 110	2010	99.9	LB87978	21	79-00-5
1,3-DICHLOROPROPANE	µg/ml	2000 ± 110	1990	99.9	LC10811	22	142-28-9
TETRACHLOROETHYLENE	µg/ml	2000 ± 110	2010	99.9	LB67182	23	127-18-4
DIBROMOCHLOROMETHANE	µg/ml	2000 ± 120	2020	96.5	LB89245	24	124-48-1

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

SIGMA-ALDRICH®
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
307-742-5452
rtctechgroup@sial.com www.sigma-aldrich.com

Lot **LRAC0242**
Expiration Date September 2020
MFG Date September 2018
Storage Conditions Freeze
Solvent/Matrix METHANOL

1,2-DIBROMOETHANE	µg/ml	2003 ± 110	2020	99.1	LB42792	25	106-93-4
CHLOROBENZENE	µg/ml	2000 ± 94	1990	99.9	LB93949	26	108-90-7
1,1,1,2-TETRACHLOROETHANE	µg/ml	2000 ± 110	1980	99.9	LC14810	27	630-20-6
ETHYLBENZENE	µg/ml	2000 ± 110	1980	99.87	SHBK2389	28	100-41-4
M-XYLENE	µg/ml	2002 ± 110	2000	99.8	LB87531	29	108-38-3
P-XYLENE	µg/ml	2000 ± 110	2000	99.9	LB73203	29	106-42-3
O-XYLENE	µg/ml	2000 ± 110	2000	99.5	LB92424	30	95-47-6
STYRENE	µg/ml	2000 ± 98	1990	99.9	LC17632	31	100-42-5
CUMENE	µg/ml	2000 ± 99	2010	99.9	LB89580	32	98-82-8
BROMOFORM	µg/ml	2001 ± 120	2050	96.1	67996PJ	33	75-25-2
1,1,2,2-TETRACHLOROETHANE	µg/ml	2000 ± 100	1990	99.9	LB51327	34	79-34-5
1,2,3-TRICHLOROPROPANE	µg/ml	2001 ± 99	2020	99	BCBH8722V	35	96-18-4
N-PROPYLBENZENE	µg/ml	2000 ± 100	1990	99.9	T2HFC	36	103-65-1
BROMOBENZENE	µg/ml	2001 ± 98	1980	99.5	LB99843	37	108-86-1
1,2,4-TRIMETHYLBENZENE	µg/ml	2000 ± 100	2020	98.9	LB97224	38	95-63-6
2-CHLOROTOLUENE	µg/ml	2001 ± 98	2010	99.9	LC01464	39	95-49-8
4-CHLOROTOLUENE	µg/ml	2001 ± 92	2000	99.9	LC02742	40	106-43-4
TERT-BUTYLBENZENE	µg/ml	2000 ± 93	2000	99.9	LB40373	41	98-06-6
1,3,5-TRIMETHYLBENZENE	µg/ml	2000 ± 94	1980	99.3	LB82157	42	108-67-8
SEC-BUTYLBENZENE	µg/ml	2000 ± 93	1990	99.4	LB77150	43	135-98-8
P-ISOPROPYLTOLUENE	µg/ml	2000 ± 88	1960	98.7	LB40003	44	99-87-6
1,4-DICHLOROBENZENE	µg/ml	2000 ± 88	2000	99.9	LB90630	45	106-46-7
1,3-DICHLOROBENZENE	µg/ml	2001 ± 94	2010	99.9	LC17654	46	541-73-1
N-BUTYLBENZENE	µg/ml	2000 ± 91	2010	99.9	LB81630	47	104-51-8
1,2-DICHLOROBENZENE	µg/ml	2001 ± 82	2010	99.4	LB58923	48	95-50-1
1,2-DIBROMO-3-CHLOROPROPANE	µg/ml	2000 ± 89	2060	96.8	LB06608	49	96-12-8
1,2,3-TRICHLOROBENZENE	µg/ml	2000 ± 73	2010	99.9	LC20450	50	87-61-6
HEXACHLOROBUTADIENE	µg/ml	2000 ± 81	2060	97.4	MKCD4346	51	87-68-3

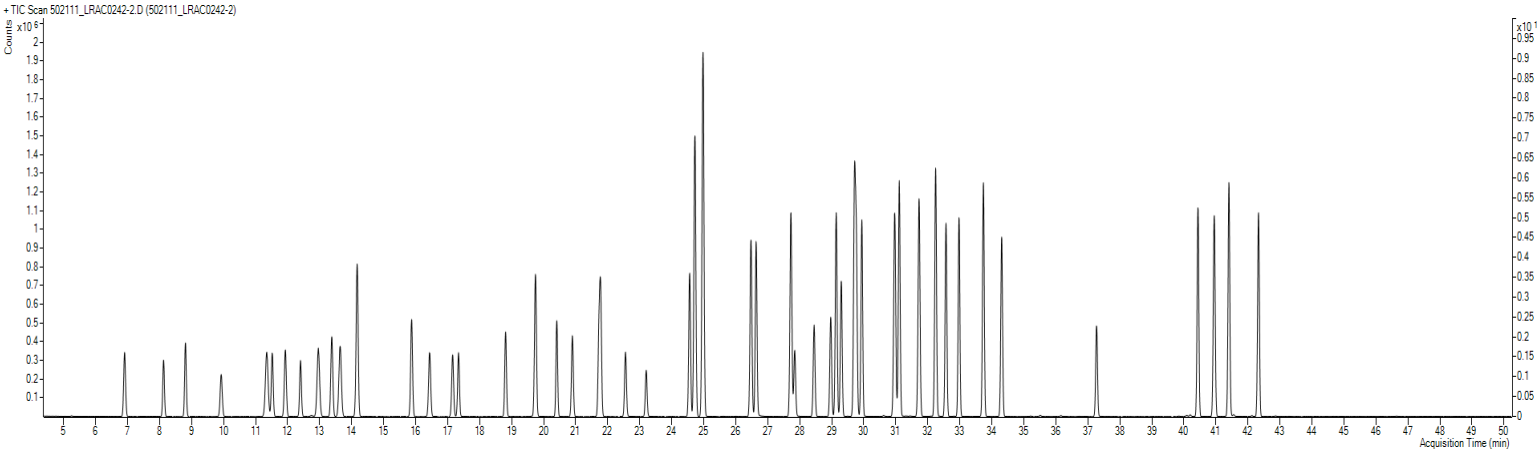
Certificate of Analysis

502/524 VOLATILE ORGANICS CALIBRATION

Certified Reference Material

Product ID 502111
Lot **LRAC0242**
Expiration Date September 2020
MFG Date September 2018
Storage Conditions Freeze
Solvent/Matrix METHANOL

NAPHTHALENE	µg/ml	2000 ± 81	1990	99.9	16412TN	52	91-20-3
1,2,4-TRICHLOROBENZENE	µg/ml	2001 ± 67	2020	99.4	LB48083	53	120-82-1



Additional Information:

Analytical Method Parameters:

Column: VOCOL, 60 m x 0.25 mm x 1.5 µm df
35°C (4 min) to 200°C (5 min) at 4°C/min
Detector: MSD, 200°C
Injection Volume: 1 µL

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

SIGMA-ALDRICH®
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
307-742-5452
rctechgroup@sial.com www.sigma-aldrich.com

Lot **LRAC0242**
Expiration Date September 2020
MFG Date September 2018
Storage Conditions Freeze
Solvent/Matrix METHANOL

1 Certified value - based on the gravimetric preparation and analytically verified by RTC with associated uncertainties from the preparation and analytical procedures.

4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

Traceability: The standard was manufactured under an ISO/IEC 17025:2005 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were preformed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2005 (ANAB Cert AT-1467) and ISO GUIDE 34:2009 (ANAB Cert AR-1470).

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

Robert O'Brien - QC Supervisor

Mark Pooler - QA Supervisor

Certification Date October 04, 2018
Version -1042018

Analytical Standard Record

EPA Region 9 Laboratory

1920045

Description:	Toluene-d8	**Expires:**	01/22/21
Standard Type:	Other Solution	**Prepared:**	05/15/19
Solvent:	na	**Prepared By:**	** Vendor **
Final Volume (mls):	0.1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	10/21/20 11:28 by ZAR
Vendor:	Cambridge Isotope Lab.	**Lot Numbe**	I-21928

Part # DLM-5-10X1; POS #: 18C-262, bar code #AU0010913

Expiration date changed, neat standard, per ZAR

Analyte	CAS Number	Concentration (ppm)
Toluene-d8	2037-26-5	1000000

CERTIFICATE OF ANALYSIS

FROM VENDOR

IS NOT AVAILABLE.

Analytical Standard Record

EPA Region 9 Laboratory

1937063

Description:	VOA 502.2 CAL 2000 MEGA MIX, Stock	**Expires:**	03/31/21
Standard Type:	Other Solution	**Prepared:**	09/10/19
Solvent:	MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	09/10/19 13:18 by YNB
Vendor:	Restek	**Lot Numbe**	A0146957

RESTEK, catalog # 30431, Barcode AU011279

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	2000
Bromobenzene	108-86-1	2000
Benzene	71-43-2	2000
4-Chlorotoluene	106-43-4	2000
2-Chlorotoluene	95-49-8	2000
2,2-Dichloropropane	594-20-7	2000
1,4-Dichlorobenzene	106-46-7	2000
1,3-Dichloropropane	142-28-9	2000
1,3-Dichlorobenzene	541-73-1	2000
1,3,5-Trimethylbenzene	108-67-8	2000
1,2-Dichloropropane	78-87-5	2000
1,1,1,2-Tetrachloroethane	630-20-6	2000
1,2-Dichlorobenzene	95-50-1	2000
Bromoform	75-25-2	2000
1,2-Dibromo-3-chloropropane	96-12-8	2000
1,2,4-Trimethylbenzene	95-63-6	2000
1,2,4-Trichlorobenzene	120-82-1	2000
1,2,3-Trichloropropane	96-18-4	2000
1,2,3-Trichlorobenzene	87-61-6	2000
1,1-Dichloropropene	563-58-6	2000
1,1-Dichloroethene	75-35-4	2000
1,1-Dichloroethane	75-34-3	2000
1,1,2-Trichloroethane	79-00-5	2000
1,1,2,2-Tetrachloroethane	79-34-5	2000
1,1,1-Trichloroethane	71-55-6	2000
1,2-Dichloroethane	107-06-2	2000
Hexachlorobutadiene	87-68-3	2000
trans-1,3-Dichloropropene	10061-02-6	2000
trans-1,2-Dichloroethene	156-60-5	2000
Toluene	108-88-3	2000

Analytical Standard Record

EPA Region 9 Laboratory

1937063

Tetrachloroethene	127-18-4	2000
tert-Butylbenzene	98-06-6	2000
Styrene	100-42-5	2000
sec-Butylbenzene	135-98-8	2000
Propylbenzene	103-65-1	2000
p-Isopropyltoluene	99-87-6	2000
o-Xylene	95-47-6	2000
Naphthalene	91-20-3	2000
Bromochloromethane	74-97-5	2000
Isopropylbenzene	98-82-8	2000
Bromodichloromethane	75-27-4	2000
Ethylbenzene	100-41-4	2000
Dichloromethane	75-09-2	2000
Dibromomethane	74-95-3	2000
cis-1,3-Dichloropropene	10061-01-5	2000
cis-1,2-Dichloroethene	156-59-2	2000
Chloroform	67-66-3	2000
Chlorodibromomethane	124-48-1	2000
Chlorobenzene	108-90-7	2000
Carbon tetrachloride	56-23-5	2000
Butylbenzene	104-51-8	2000
Trichloroethene	79-01-6	2000
m&p-Xylene	179601-23-1	4000

CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30431 **Lot No.:** A0146957

Description : 502.2 CAL2000 Mega-Mix

502.2 CAL2000 Mega-Mix 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene	2,008.6 µg/mL	+/- 12.7358 µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBG8609V)		+/- 90.6111 µg/mL	Unstressed
	Purity 99%		+/- 100.5146 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	2,007.1 µg/mL	+/- 12.7263 µg/mL	Gravimetric
	CAS # 75-09-2 (Lot SHBK5095)		+/- 90.5435 µg/mL	Unstressed
	Purity 99%		+/- 100.4395 µg/mL	Stressed
3	trans-1,2-Dichloroethene	2,005.2 µg/mL	+/- 12.7140 µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/- 90.4563 µg/mL	Unstressed
	Purity 99%		+/- 100.3427 µg/mL	Stressed
4	1,1-Dichloroethane	2,003.1 µg/mL	+/- 12.7009 µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 462600)		+/- 90.3630 µg/mL	Unstressed
	Purity 99%		+/- 100.2393 µg/mL	Stressed
5	2,2-Dichloropropane	2,000.3 µg/mL	+/- 12.6830 µg/mL	Gravimetric
	CAS # 594-20-7 (Lot BCBT5124)		+/- 90.2358 µg/mL	Unstressed
	Purity 99%		+/- 100.0982 µg/mL	Stressed
6	cis-1,2-Dichloroethene	2,002.5 µg/mL	+/- 12.6972 µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKBX5945V)		+/- 90.3369 µg/mL	Unstressed
	Purity 99%		+/- 100.2103 µg/mL	Stressed
7	chloroform	2,004.8 µg/mL	+/- 12.7115 µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBJ9076)		+/- 90.4382 µg/mL	Unstressed
	Purity 99%		+/- 100.3227 µg/mL	Stressed

8	Bromochloromethane			2,000.7	µg/mL	+/-	12.6854	µg/mL	Gravimetric
	CAS #	74-97-5	(Lot 00008541)			+/-	90.2525	µg/mL	Unstressed
	Purity	98%				+/-	100.1167	µg/mL	Stressed
9	1,1,1-trichloroethane			2,000.9	µg/mL	+/-	12.6872	µg/mL	Gravimetric
	CAS #	71-55-6	(Lot 190123CG)			+/-	90.2652	µg/mL	Unstressed
	Purity	98%				+/-	100.1308	µg/mL	Stressed
10	1,1-Dichloropropene			2,004.3	µg/mL	+/-	12.7084	µg/mL	Gravimetric
	CAS #	563-58-6	(Lot 190122JLM)			+/-	90.4163	µg/mL	Unstressed
	Purity	99%				+/-	100.2984	µg/mL	Stressed
11	carbon tetrachloride			2,004.5	µg/mL	+/-	12.7100	µg/mL	Gravimetric
	CAS #	56-23-5	(Lot SHBJ2110)			+/-	90.4277	µg/mL	Unstressed
	Purity	99%				+/-	100.3110	µg/mL	Stressed
12	1,2-Dichloroethane			2,007.5	µg/mL	+/-	12.7290	µg/mL	Gravimetric
	CAS #	107-06-2	(Lot SHBJ6510)			+/-	90.5630	µg/mL	Unstressed
	Purity	99%				+/-	100.4612	µg/mL	Stressed
13	Benzene			2,004.2	µg/mL	+/-	12.7079	µg/mL	Gravimetric
	CAS #	71-43-2	(Lot SHBJ5344)			+/-	90.4126	µg/mL	Unstressed
	Purity	99%				+/-	100.2944	µg/mL	Stressed
14	Trichloroethene			2,003.4	µg/mL	+/-	12.7030	µg/mL	Gravimetric
	CAS #	79-01-6	(Lot SHBH1955V)			+/-	90.3781	µg/mL	Unstressed
	Purity	99%				+/-	100.2560	µg/mL	Stressed
15	1,2-Dichloropropane			2,007.7	µg/mL	+/-	12.7299	µg/mL	Gravimetric
	CAS #	78-87-5	(Lot BCBR0882V)			+/-	90.5690	µg/mL	Unstressed
	Purity	99%				+/-	100.4678	µg/mL	Stressed
16	bromodichloromethane			2,016.1	µg/mL	+/-	12.7833	µg/mL	Gravimetric
	CAS #	75-27-4	(Lot MKCF8470)			+/-	90.9495	µg/mL	Unstressed
	Purity	99%				+/-	100.8899	µg/mL	Stressed
17	Dibromomethane			2,002.3	µg/mL	+/-	12.6960	µg/mL	Gravimetric
	CAS #	74-95-3	(Lot 10201030)			+/-	90.3278	µg/mL	Unstressed
	Purity	99%				+/-	100.2003	µg/mL	Stressed
18	cis-1,3-Dichloropropene			2,005.6	µg/mL	+/-	12.7170	µg/mL	Gravimetric
	CAS #	10061-01-5	(Lot 25076)			+/-	90.4773	µg/mL	Unstressed
	Purity	99%				+/-	100.3661	µg/mL	Stressed
19	Toluene			2,000.7	µg/mL	+/-	12.6856	µg/mL	Gravimetric
	CAS #	108-88-3	(Lot SHBJ5659)			+/-	90.2539	µg/mL	Unstressed
	Purity	99%				+/-	100.1182	µg/mL	Stressed
20	trans-1,3-Dichloropropene			2,004.3	µg/mL	+/-	12.7083	µg/mL	Gravimetric
	CAS #	10061-02-6	(Lot C797620)			+/-	90.4155	µg/mL	Unstressed
	Purity	98%				+/-	100.2975	µg/mL	Stressed
21	1,1,2-Trichloroethane			2,007.0	µg/mL	+/-	12.7254	µg/mL	Gravimetric
	CAS #	79-00-5	(Lot FGB01)			+/-	90.5375	µg/mL	Unstressed
	Purity	99%				+/-	100.4328	µg/mL	Stressed
22	1,3-Dichloropropane			2,001.5	µg/mL	+/-	12.6909	µg/mL	Gravimetric
	CAS #	142-28-9	(Lot BCBG2162V)			+/-	90.2918	µg/mL	Unstressed
	Purity	99%				+/-	100.1603	µg/mL	Stressed
23	Tetrachloroethene			2,005.1	µg/mL	+/-	12.7136	µg/mL	Gravimetric
	CAS #	127-18-4	(Lot SHBH9691)			+/-	90.4533	µg/mL	Unstressed
	Purity	99%				+/-	100.3394	µg/mL	Stressed

24	dibromochloromethane			2,003.7	µg/mL	+/-	12.7046	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCC0877)				+/-	90.3890	µg/mL	Unstressed
	Purity 98%					+/-	100.2681	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)			2,000.7	µg/mL	+/-	12.6858	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)				+/-	90.2557	µg/mL	Unstressed
	Purity 99%					+/-	100.1202	µg/mL	Stressed
26	Chlorobenzene			2,005.3	µg/mL	+/-	12.7147	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBH4459V)				+/-	90.4608	µg/mL	Unstressed
	Purity 99%					+/-	100.3477	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane			2,001.7	µg/mL	+/-	12.6919	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)				+/-	90.2990	µg/mL	Unstressed
	Purity 99%					+/-	100.1683	µg/mL	Stressed
28	Ethylbenzene			2,001.6	µg/mL	+/-	12.6917	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBJ4278)				+/-	90.2972	µg/mL	Unstressed
	Purity 99%					+/-	100.1663	µg/mL	Stressed
29	m-Xylene			2,003.4	µg/mL	+/-	12.7031	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBJ2338)				+/-	90.3784	µg/mL	Unstressed
	Purity 99%					+/-	100.2563	µg/mL	Stressed
30	p-Xylene			2,001.8	µg/mL	+/-	12.6927	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBJ7329)				+/-	90.3044	µg/mL	Unstressed
	Purity 99%					+/-	100.1743	µg/mL	Stressed
31	o-Xylene			2,004.6	µg/mL	+/-	12.7102	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBH7231)				+/-	90.4289	µg/mL	Unstressed
	Purity 99%					+/-	100.3124	µg/mL	Stressed
32	Styrene			2,001.4	µg/mL	+/-	12.6899	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCC9766)				+/-	90.2845	µg/mL	Unstressed
	Purity 99%					+/-	100.1522	µg/mL	Stressed
33	Isopropylbenzene (cumene)			2,001.3	µg/mL	+/-	12.6894	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot P15E008)				+/-	90.2809	µg/mL	Unstressed
	Purity 99%					+/-	100.1482	µg/mL	Stressed
34	bromoform			2,004.6	µg/mL	+/-	12.7102	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBJ4835)				+/-	90.4292	µg/mL	Unstressed
	Purity 99%					+/-	100.3127	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane			2,005.5	µg/mL	+/-	12.7161	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)				+/-	90.4713	µg/mL	Unstressed
	Purity 99%					+/-	100.3594	µg/mL	Stressed
36	1,2,3-Trichloropropane			2,002.0	µg/mL	+/-	12.6942	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)				+/-	90.3152	µg/mL	Unstressed
	Purity 99%					+/-	100.1863	µg/mL	Stressed
37	n-Propylbenzene			2,001.2	µg/mL	+/-	12.6891	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot WXBC3346V)				+/-	90.2791	µg/mL	Unstressed
	Purity 99%					+/-	100.1462	µg/mL	Stressed
38	Bromobenzene			2,003.2	µg/mL	+/-	12.7016	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)				+/-	90.3675	µg/mL	Unstressed
	Purity 99%					+/-	100.2443	µg/mL	Stressed
39	1,3,5-Trimethylbenzene			2,001.4	µg/mL	+/-	12.6904	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCBS7648V)				+/-	90.2881	µg/mL	Unstressed
	Purity 99%					+/-	100.1562	µg/mL	Stressed

40	2-Chlorotoluene		2,003.5	µg/mL	+/-	12.7033	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKBW5554V)			+/-	90.3802	µg/mL	Unstressed
	Purity 99%				+/-	100.2583	µg/mL	Stressed
41	4-Chlorotoluene		2,002.8	µg/mL	+/-	12.6990	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKBL7753V)			+/-	90.3495	µg/mL	Unstressed
	Purity 99%				+/-	100.2243	µg/mL	Stressed
42	tert-Butylbenzene		2,002.2	µg/mL	+/-	12.6950	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBD6954V)			+/-	90.3206	µg/mL	Unstressed
	Purity 99%				+/-	100.1923	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		2,001.6	µg/mL	+/-	12.6911	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot MKBJ6229V)			+/-	90.2932	µg/mL	Unstressed
	Purity 98%				+/-	100.1619	µg/mL	Stressed
44	sec-Butylbenzene		2,002.0	µg/mL	+/-	12.6939	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKBR9260V)			+/-	90.3134	µg/mL	Unstressed
	Purity 99%				+/-	100.1843	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)		2,000.4	µg/mL	+/-	12.6835	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCB7536)			+/-	90.2394	µg/mL	Unstressed
	Purity 99%				+/-	100.1022	µg/mL	Stressed
46	1,3-Dichlorobenzene		2,008.3	µg/mL	+/-	12.7339	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBQ7100V)			+/-	90.5976	µg/mL	Unstressed
	Purity 99%				+/-	100.4995	µg/mL	Stressed
47	1,4-Dichlorobenzene		2,000.4	µg/mL	+/-	12.6836	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	90.2397	µg/mL	Unstressed
	Purity 99%				+/-	100.1025	µg/mL	Stressed
48	n-Butylbenzene		2,000.3	µg/mL	+/-	12.6833	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/-	90.2376	µg/mL	Unstressed
	Purity 99%				+/-	100.1002	µg/mL	Stressed
49	1,2-Dichlorobenzene		2,005.0	µg/mL	+/-	12.7128	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBG3111V)			+/-	90.4472	µg/mL	Unstressed
	Purity 99%				+/-	100.3327	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		2,000.1	µg/mL	+/-	12.6820	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	90.2286	µg/mL	Unstressed
	Purity 99%				+/-	100.0902	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		2,002.0	µg/mL	+/-	12.6939	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/-	90.3134	µg/mL	Unstressed
	Purity 99%				+/-	100.1843	µg/mL	Stressed
52	Hexachlorobutadiene		2,004.0	µg/mL	+/-	12.7064	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot J31X013)			+/-	90.4018	µg/mL	Unstressed
	Purity 99%				+/-	100.2824	µg/mL	Stressed
53	Naphthalene		2,003.9	µg/mL	+/-	12.7061	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/-	90.4000	µg/mL	Unstressed
	Purity 99%				+/-	100.2804	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		2,003.9	µg/mL	+/-	12.7061	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	90.4000	µg/mL	Unstressed
	Purity 99%				+/-	100.2804	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

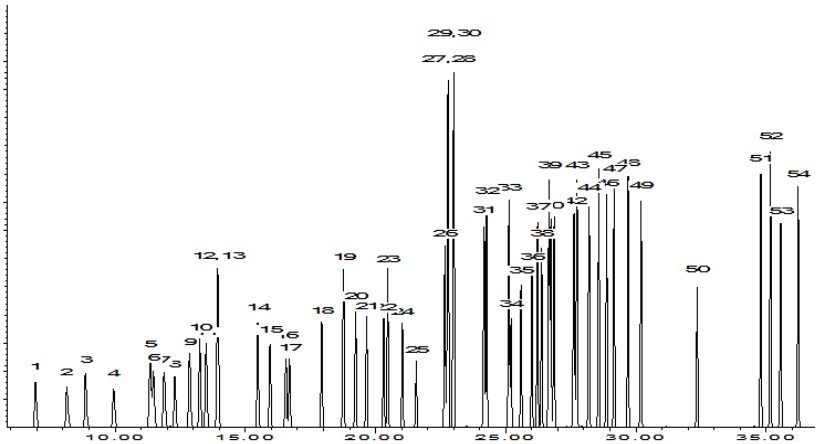
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Date Mixed: 12-Mar-2019 **Balance:** 1126342624

Fang-Yun Lo - QC Analyst

Date Passed: 20-Mar-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Analytical Standard Record

EPA Region 9 Laboratory

2006155

Description:	VOA 502.2 CAL 2000 MEGA MIX, Stock	**Expires:**	07/31/21
Standard Type:	Other Solution	**Prepared:**	07/16/19
Solvent:	MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	02/06/20 16:36 by EM
Vendor:	Restek	**Lot Numbe**	A0150913

RESTEK, catalog # 30431, Barcode AU011648

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	2000
Bromobenzene	108-86-1	2000
Benzene	71-43-2	2000
4-Chlorotoluene	106-43-4	2000
2-Chlorotoluene	95-49-8	2000
2,2-Dichloropropane	594-20-7	2000
1,4-Dichlorobenzene	106-46-7	2000
1,3-Dichloropropane	142-28-9	2000
1,3-Dichlorobenzene	541-73-1	2000
1,3,5-Trimethylbenzene	108-67-8	2000
1,2-Dichloropropane	78-87-5	2000
1,1,1,2-Tetrachloroethane	630-20-6	2000
1,2-Dichlorobenzene	95-50-1	2000
Bromoform	75-25-2	2000
1,2-Dibromo-3-chloropropane	96-12-8	2000
1,2,4-Trimethylbenzene	95-63-6	2000
1,2,4-Trichlorobenzene	120-82-1	2000
1,2,3-Trichloropropane	96-18-4	2000
1,2,3-Trichlorobenzene	87-61-6	2000
1,1-Dichloropropene	563-58-6	2000
1,1-Dichloroethene	75-35-4	2000
1,1-Dichloroethane	75-34-3	2000
1,1,2-Trichloroethane	79-00-5	2000
1,1,2,2-Tetrachloroethane	79-34-5	2000
1,1,1-Trichloroethane	71-55-6	2000
1,2-Dichloroethane	107-06-2	2000
Hexachlorobutadiene	87-68-3	2000
trans-1,3-Dichloropropene	10061-02-6	2000
trans-1,2-Dichloroethene	156-60-5	2000
Toluene	108-88-3	2000

Analytical Standard Record

EPA Region 9 Laboratory

2006155

Tetrachloroethene	127-18-4	2000
tert-Butylbenzene	98-06-6	2000
Styrene	100-42-5	2000
sec-Butylbenzene	135-98-8	2000
Propylbenzene	103-65-1	2000
p-Isopropyltoluene	99-87-6	2000
o-Xylene	95-47-6	2000
Naphthalene	91-20-3	2000
Bromochloromethane	74-97-5	2000
Isopropylbenzene	98-82-8	2000
Bromodichloromethane	75-27-4	2000
Ethylbenzene	100-41-4	2000
Dichloromethane	75-09-2	2000
Dibromomethane	74-95-3	2000
cis-1,3-Dichloropropene	10061-01-5	2000
cis-1,2-Dichloroethene	156-59-2	2000
Chloroform	67-66-3	2000
Chlorodibromomethane	124-48-1	2000
Chlorobenzene	108-90-7	2000
Carbon tetrachloride	56-23-5	2000
Butylbenzene	104-51-8	2000
Trichloroethene	79-01-6	2000
m&p-Xylene	179601-23-1	4000

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30431 **Lot No.:** A0150913

Description : 502.2 CAL2000 Mega-Mix

502.2 CAL2000 Mega-Mix 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

A0011645 646 647 648 649 650 651 652

2006152 6153 6154 6155 ~~6156~~ 6157 ~~6157~~ 6158 ~~6158~~ 6159 ~~6159~~ 616

3/10/20

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)[1]		Expanded Uncertainty (95% C.L., K=2)		
1	1,1-dichloroethene		2,001.7 µg/mL	+/- 12.6162	µg/mL	Gravimetric
	CAS # 75-35-4	(Lot SHBG8609V)		+/- 90.2903	µg/mL	Unstressed
	Purity 99%			+/- 100.1609	µg/mL	Stressed
2	Methylene chloride (dichloromethane)		2,002.3 µg/mL	+/- 12.6195	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBK5095)		+/- 90.3140	µg/mL	Unstressed
	Purity 99%			+/- 100.1872	µg/mL	Stressed
3	trans-1,2-Dichloroethene		2,001.7 µg/mL	+/- 12.6157	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)		+/- 90.2870	µg/mL	Unstressed
	Purity 99%			+/- 100.1572	µg/mL	Stressed
4	1,1-Dichloroethane		2,001.3 µg/mL	+/- 12.6135	µg/mL	Gravimetric
	CAS # 75-34-3	(Lot 462600)		+/- 90.2712	µg/mL	Unstressed
	Purity 99%			+/- 100.1396	µg/mL	Stressed
5	2,2-Dichloropropane		2,008.0 µg/mL	+/- 12.7321	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBW4162)		+/- 90.5850	µg/mL	Unstressed
	Purity 98%			+/- 100.4855	µg/mL	Stressed
6	cis-1,2-Dichloroethene		2,001.5 µg/mL	+/- 12.6910	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBX5945V)		+/- 90.2924	µg/mL	Unstressed
	Purity 99%			+/- 100.1609	µg/mL	Stressed
7	chloroform		2,005.2 µg/mL	+/- 12.6381	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBJ9076)		+/- 90.4471	µg/mL	Unstressed
	Purity 99%			+/- 100.3348	µg/mL	Stressed

8	Bromochloromethane			2,015.5	µg/mL	+/-	12.7795	µg/mL	Gravimetric
	CAS #	74-97-5	(Lot 00008541)			+/-	90.9224	µg/mL	Unstressed
	Purity	98%				+/-	100.8599	µg/mL	Stressed
9	1,1,1-trichloroethane			2,002.9	µg/mL	+/-	12.6236	µg/mL	Gravimetric
	CAS #	71-55-6	(Lot 190123CG)			+/-	90.3433	µg/mL	Unstressed
	Purity	98%				+/-	100.2197	µg/mL	Stressed
10	1,1-Dichloropropene			2,013.5	µg/mL	+/-	12.7669	µg/mL	Gravimetric
	CAS #	563-58-6	(Lot 180531JLM)			+/-	90.8322	µg/mL	Unstressed
	Purity	99%				+/-	100.7598	µg/mL	Stressed
11	carbon tetrachloride			2,005.4	µg/mL	+/-	12.6395	µg/mL	Gravimetric
	CAS #	56-23-5	(Lot SHBG8938V)			+/-	90.4572	µg/mL	Unstressed
	Purity	99%				+/-	100.3460	µg/mL	Stressed
12	1,2-Dichloroethane			2,004.9	µg/mL	+/-	12.6359	µg/mL	Gravimetric
	CAS #	107-06-2	(Lot SHBJ6510)			+/-	90.4313	µg/mL	Unstressed
	Purity	99%				+/-	100.3173	µg/mL	Stressed
13	Benzene			2,005.0	µg/mL	+/-	12.7130	µg/mL	Gravimetric
	CAS #	71-43-2	(Lot SHBK7357)			+/-	90.4487	µg/mL	Unstressed
	Purity	99%				+/-	100.3344	µg/mL	Stressed
14	Trichloroethene			2,006.1	µg/mL	+/-	12.6436	µg/mL	Gravimetric
	CAS #	79-01-6	(Lot SHBH1955V)			+/-	90.4866	µg/mL	Unstressed
	Purity	99%				+/-	100.3786	µg/mL	Stressed
15	1,2-Dichloropropane			2,001.0	µg/mL	+/-	12.6113	µg/mL	Gravimetric
	CAS #	78-87-5	(Lot BCBR0882V)			+/-	90.2554	µg/mL	Unstressed
	Purity	99%				+/-	100.1221	µg/mL	Stressed
16	bromodichloromethane			2,006.7	µg/mL	+/-	12.6476	µg/mL	Gravimetric
	CAS #	75-27-4	(Lot MKCJ0238)			+/-	90.5148	µg/mL	Unstressed
	Purity	99%				+/-	100.4098	µg/mL	Stressed
17	Dibromomethane			2,011.9	µg/mL	+/-	12.7567	µg/mL	Gravimetric
	CAS #	74-95-3	(Lot 10201030)			+/-	90.7600	µg/mL	Unstressed
	Purity	99%				+/-	100.6797	µg/mL	Stressed
18	cis-1,3-Dichloropropene			2,002.7	µg/mL	+/-	12.6223	µg/mL	Gravimetric
	CAS #	10061-01-5	(Lot 25649)			+/-	90.3343	µg/mL	Unstressed
	Purity	99%				+/-	100.2097	µg/mL	Stressed
19	Toluene			2,003.6	µg/mL	+/-	12.7043	µg/mL	Gravimetric
	CAS #	108-88-3	(Lot SHBK3737)			+/-	90.3871	µg/mL	Unstressed
	Purity	99%				+/-	100.2660	µg/mL	Stressed
20	trans-1,3-Dichloropropene			2,002.2	µg/mL	+/-	12.6189	µg/mL	Gravimetric
	CAS #	10061-02-6	(Lot 19160070-D19056)			+/-	90.3095	µg/mL	Unstressed
	Purity	99%				+/-	100.1822	µg/mL	Stressed
21	1,1,2-Trichloroethane			2,000.6	µg/mL	+/-	12.6088	µg/mL	Gravimetric
	CAS #	79-00-5	(Lot FGB01)			+/-	90.2373	µg/mL	Unstressed
	Purity	99%				+/-	100.1021	µg/mL	Stressed
22	1,3-Dichloropropane			2,001.6	µg/mL	+/-	12.6912	µg/mL	Gravimetric
	CAS #	142-28-9	(Lot BCBC6265)			+/-	90.2939	µg/mL	Unstressed
	Purity	99%				+/-	100.1626	µg/mL	Stressed
23	Tetrachloroethene			2,003.4	µg/mL	+/-	12.6268	µg/mL	Gravimetric
	CAS #	127-18-4	(Lot SHBJ7422)			+/-	90.3659	µg/mL	Unstressed
	Purity	99%				+/-	100.2447	µg/mL	Stressed

40	2-Chlorotoluene			2,011.5	µg/mL	+/-	12.7544	µg/mL	Gravimetric
	CAS #	95-49-8	(Lot MKBW5554V)			+/-	90.7435	µg/mL	Unstressed
	Purity	99%				+/-	100.6613	µg/mL	Stressed
41	4-Chlorotoluene			2,006.2	µg/mL	+/-	12.7206	µg/mL	Gravimetric
	CAS #	106-43-4	(Lot MKBL7753V)			+/-	90.5029	µg/mL	Unstressed
	Purity	99%				+/-	100.3944	µg/mL	Stressed
42	tert-Butylbenzene			2,010.9	µg/mL	+/-	12.7502	µg/mL	Gravimetric
	CAS #	98-06-6	(Lot STBD6954V)			+/-	90.7134	µg/mL	Unstressed
	Purity	99%				+/-	100.6280	µg/mL	Stressed
43	1,2,4-Trimethylbenzene			2,007.3	µg/mL	+/-	12.7278	µg/mL	Gravimetric
	CAS #	95-63-6	(Lot WXBC4246V)			+/-	90.5540	µg/mL	Unstressed
	Purity	99%				+/-	100.4512	µg/mL	Stressed
44	sec-Butylbenzene			2,011.4	µg/mL	+/-	12.7533	µg/mL	Gravimetric
	CAS #	135-98-8	(Lot MKCG5431)			+/-	90.7359	µg/mL	Unstressed
	Purity	99%				+/-	100.6530	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)			2,010.8	µg/mL	+/-	12.7500	µg/mL	Gravimetric
	CAS #	99-87-6	(Lot MKCB7536)			+/-	90.7119	µg/mL	Unstressed
	Purity	99%				+/-	100.6263	µg/mL	Stressed
46	1,3-Dichlorobenzene			2,005.6	µg/mL	+/-	12.6406	µg/mL	Gravimetric
	CAS #	541-73-1	(Lot BCBQ7100V)			+/-	90.4651	µg/mL	Unstressed
	Purity	99%				+/-	100.3548	µg/mL	Stressed
47	1,4-Dichlorobenzene			2,008.0	µg/mL	+/-	12.6558	µg/mL	Gravimetric
	CAS #	106-46-7	(Lot MKBS4401V)			+/-	90.5734	µg/mL	Unstressed
	Purity	99%				+/-	100.4749	µg/mL	Stressed
48	n-Butylbenzene			2,006.9	µg/mL	+/-	12.7252	µg/mL	Gravimetric
	CAS #	104-51-8	(Lot 09804AE)			+/-	90.5360	µg/mL	Unstressed
	Purity	99%				+/-	100.4311	µg/mL	Stressed
49	1,2-Dichlorobenzene			2,007.2	µg/mL	+/-	12.6509	µg/mL	Gravimetric
	CAS #	95-50-1	(Lot SHBG3111V)			+/-	90.5384	µg/mL	Unstressed
	Purity	99%				+/-	100.4361	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane			2,001.3	µg/mL	+/-	12.6897	µg/mL	Gravimetric
	CAS #	96-12-8	(Lot FBL01)			+/-	90.2835	µg/mL	Unstressed
	Purity	97%				+/-	100.1511	µg/mL	Stressed
51	1,2,4-Trichlorobenzene			2,011.9	µg/mL	+/-	12.7567	µg/mL	Gravimetric
	CAS #	120-82-1	(Lot SHBJ9215)			+/-	90.7600	µg/mL	Unstressed
	Purity	99%				+/-	100.6797	µg/mL	Stressed
52	Hexachlorobutadiene			2,005.5	µg/mL	+/-	12.7163	µg/mL	Gravimetric
	CAS #	87-68-3	(Lot J31X013)			+/-	90.4728	µg/mL	Unstressed
	Purity	99%				+/-	100.3611	µg/mL	Stressed
53	Naphthalene			2,003.1	µg/mL	+/-	12.7009	µg/mL	Gravimetric
	CAS #	91-20-3	(Lot MKBZ8680V)			+/-	90.3630	µg/mL	Unstressed
	Purity	99%				+/-	100.2393	µg/mL	Stressed
54	1,2,3-Trichlorobenzene			2,004.8	µg/mL	+/-	12.7119	µg/mL	Gravimetric
	CAS #	87-61-6	(Lot MKBX7627V)			+/-	90.4412	µg/mL	Unstressed
	Purity	99%				+/-	100.3261	µg/mL	Stressed

24	dibromochloromethane			2,004.8	µg/mL	+/-	12.6358	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCJ3856)				+/-	90.4306	µg/mL	Unstressed
	Purity 98%					+/-	100.3165	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)			2,002.8	µg/mL	+/-	12.6990	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)				+/-	90.3495	µg/mL	Unstressed
	Purity 99%					+/-	100.2243	µg/mL	Stressed
26	Chlorobenzene			2,003.2	µg/mL	+/-	12.6252	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBJ0839)				+/-	90.3546	µg/mL	Unstressed
	Purity 99%					+/-	100.2322	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane			2,007.3	µg/mL	+/-	12.7275	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)				+/-	90.5525	µg/mL	Unstressed
	Purity 99%					+/-	100.4495	µg/mL	Stressed
28	Ethylbenzene			2,003.7	µg/mL	+/-	12.7045	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBJ4278)				+/-	90.3886	µg/mL	Unstressed
	Purity 99%					+/-	100.2677	µg/mL	Stressed
29	m-Xylene			2,006.0	µg/mL	+/-	12.7195	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBJ8743)				+/-	90.4954	µg/mL	Unstressed
	Purity 99%					+/-	100.3861	µg/mL	Stressed
30	p-Xylene			2,013.1	µg/mL	+/-	12.7645	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBJ7329)				+/-	90.8156	µg/mL	Unstressed
	Purity 99%					+/-	100.7414	µg/mL	Stressed
31	o-Xylene			2,007.6	µg/mL	+/-	12.7295	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBK7739)				+/-	90.5660	µg/mL	Unstressed
	Purity 99%					+/-	100.4645	µg/mL	Stressed
32	Styrene			2,012.8	µg/mL	+/-	12.7624	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCC9766)				+/-	90.8006	µg/mL	Unstressed
	Purity 99%					+/-	100.7247	µg/mL	Stressed
33	Isopropylbenzene (cumene)			2,007.2	µg/mL	+/-	12.7271	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot P15E008)				+/-	90.5495	µg/mL	Unstressed
	Purity 99%					+/-	100.4462	µg/mL	Stressed
34	bromoform			2,009.4	µg/mL	+/-	12.6644	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBJ4835)				+/-	90.6354	µg/mL	Unstressed
	Purity 99%					+/-	100.5437	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane			2,008.7	µg/mL	+/-	12.6600	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)				+/-	90.6038	µg/mL	Unstressed
	Purity 99%					+/-	100.5087	µg/mL	Stressed
36	1,2,3-Trichloropropane			2,010.2	µg/mL	+/-	12.7461	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)				+/-	90.6848	µg/mL	Unstressed
	Purity 99%					+/-	100.5963	µg/mL	Stressed
37	n-Propylbenzene			2,005.1	µg/mL	+/-	12.7134	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot WXBC5978V)				+/-	90.4517	µg/mL	Unstressed
	Purity 99%					+/-	100.3377	µg/mL	Stressed
38	Bromobenzene			2,010.9	µg/mL	+/-	12.7504	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot MKBD4032V)				+/-	90.7149	µg/mL	Unstressed
	Purity 99%					+/-	100.6296	µg/mL	Stressed
39	1,3,5-Trimethylbenzene			2,008.1	µg/mL	+/-	12.7326	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCBZ6781)				+/-	90.5886	µg/mL	Unstressed
	Purity 99%					+/-	100.4895	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

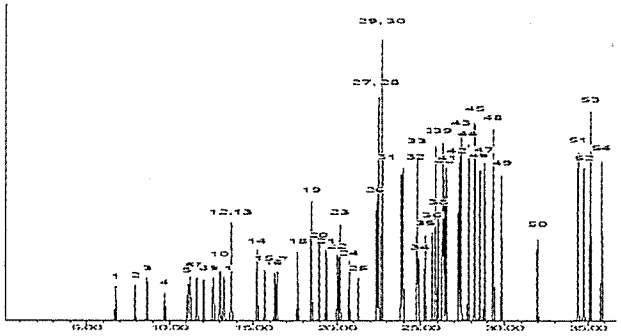
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust - Mix Technician

Date Mixed: 16-Jul-2019 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 19-Jul-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Analytical Standard Record

EPA Region 9 Laboratory

2016028

Description:	passive air WORKING BFB 50 mg/L	**Expires:**	09/15/20
Standard Type:	Other Solution	**Prepared:**	04/15/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	5	**Department:**	Volatiles
Vials:	1	**Last Edit:**	04/17/20 12:22 by TD
Vendor:	*Prepared*	**Lot Numbe**	1748145

Analyte	CAS Number	Concentration (ppm)
4-Bromofluorobenzene	460-00-4	50

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1740054	VOA BFB tuning mix, stock STD.	10/03/17	** Vendor **	11/30/22	10/03/17 14:37 by YNB	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2030064

Description:	Passive indoor air Surrogate Stock	**Expires:**	01/22/21
Standard Type:	Other Solution	**Prepared:**	07/22/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	2	**Department:**	Volatiles
Vials:	1	**Last Edit:**	07/22/20 08:52 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
Toluene-d8	2037-26-5	10000

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1920045	Toluene-d8	05/15/19	** Vendor **	01/22/21	07/22/20 08:49 by TD	0.02

Analytical Standard Record

EPA Region 9 Laboratory

2030065

Description:	Passive indoor air Internal Standard Stock	**Expires:**	01/22/21
Standard Type:	Other Solution	**Prepared:**	07/22/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	2	**Department:**	Volatiles
Vials:	1	**Last Edit:**	07/22/20 08:52 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
2-Fluorotoluene	95-52-3	10000

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1639096	2-Fluorotoluene	09/22/16	** Vendor **	12/31/29	09/22/17 11:57 by TD	0.02

Analytical Standard Record

EPA Region 9 Laboratory

2030066

Description:	Passive indoor air stock std 50	**Expires:**	01/22/21
Standard Type:	Analyte Spike	**Prepared:**	07/22/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	20	**Department:**	Volatiles
Vials:	1	**Last Edit:**	07/22/20 08:55 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	50
1,1,1,2-Tetrachloroethane	630-20-6	50
Bromobenzene	108-86-1	50
Benzene	71-43-2	50
4-Chlorotoluene	106-43-4	50
2-Chlorotoluene	95-49-8	50
2,2-Dichloropropane	594-20-7	50
1,4-Dichlorobenzene	106-46-7	50
1,3-Dichloropropane	142-28-9	50
1,3-Dichlorobenzene	541-73-1	50
1,3,5-Trimethylbenzene	108-67-8	50
1,2-Dichloropropane	78-87-5	50
Bromodichloromethane	75-27-4	50
1,2-Dichlorobenzene	95-50-1	50
Bromoform	75-25-2	50
1,2-Dibromo-3-chloropropane	96-12-8	50
1,2,4-Trimethylbenzene	95-63-6	50
1,2,4-Trichlorobenzene	120-82-1	50
1,2,3-Trichloropropane	96-18-4	50
1,2,3-Trichlorobenzene	87-61-6	50
1,1-Dichloropropene	563-58-6	50
1,1-Dichloroethene	75-35-4	50
1,1-Dichloroethane	75-34-3	50
1,1,2-Trichloroethane	79-00-5	50
1,1,2,2-Tetrachloroethane	79-34-5	50
1,1,1-Trichloroethane	71-55-6	50
1,2-Dichloroethane	107-06-2	50
Isopropylbenzene	98-82-8	50
trans-1,3-Dichloropropene	10061-02-6	50
trans-1,2-Dichloroethene	156-60-5	50

Analytical Standard Record

EPA Region 9 Laboratory

2030066

Toluene-d8	2037-26-5	50
Toluene	108-88-3	50
Tetrachloroethene	127-18-4	50
tert-Butylbenzene	98-06-6	50
Styrene	100-42-5	50
sec-Butylbenzene	135-98-8	50
Propylbenzene	103-65-1	50
p-Isopropyltoluene	99-87-6	50
o-Xylene	95-47-6	50
Bromochloromethane	74-97-5	50
m&p-Xylene	179601-23-1	100
Trichloroethene	79-01-6	50
Hexachlorobutadiene	87-68-3	50
Ethylbenzene	100-41-4	50
Dichloromethane	75-09-2	50
Dibromomethane	74-95-3	50
cis-1,3-Dichloropropene	10061-01-5	50
cis-1,2-Dichloroethene	156-59-2	50
Chloroform	67-66-3	50
Chlorodibromomethane	124-48-1	50
Chlorobenzene	108-90-7	50
Carbon tetrachloride	56-23-5	50
Butylbenzene	104-51-8	50
Naphthalene	91-20-3	50

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1937063	VOA 502.2 CAL 2000 MEGA MIX, St	09/10/19	** Vendor **	01/22/21	07/22/20 08:48 by TD	0.5
2030064	Passive indoor air Surrogate Stock	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:52 by TD	0.1

Analytical Standard Record

EPA Region 9 Laboratory

2030067

Description:	Passive air Surrogate/I.S. Working solutio	**Expires:**	01/22/21
Standard Type:	Surrogate Spike	**Prepared:**	07/22/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	25	**Department:**	Volatiles
Vials:	1	**Last Edit:**	07/22/20 08:56 by TD
Vendor:	Restek	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
Toluene-d8	2037-26-5	200
2-Fluorotoluene	95-52-3	200

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
2030064	Passive indoor air Surrogate Stock	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:52 by TD	0.5
2030065	Passive indoor air Internal Standard Sto	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:52 by TD	0.5

Analytical Standard Record

EPA Region 9 Laboratory

2030068

Description:	Passive indoor air 25	**Expires:**	01/22/21
Standard Type:	Other Solution	**Prepared:**	07/22/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	07/22/20 08:58 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	25
Bromobenzene	108-86-1	25
Benzene	71-43-2	25
4-Chlorotoluene	106-43-4	25
2-Fluorotoluene	95-52-3	5
2-Chlorotoluene	95-49-8	25
2,2-Dichloropropane	594-20-7	25
1,4-Dichlorobenzene	106-46-7	25
1,3-Dichloropropane	142-28-9	25
1,3-Dichlorobenzene	541-73-1	25
1,3,5-Trimethylbenzene	108-67-8	25
1,2-Dichloropropane	78-87-5	25
1,1,1,2-Tetrachloroethane	630-20-6	25
1,2-Dichlorobenzene	95-50-1	25
Bromoform	75-25-2	25
1,2-Dibromo-3-chloropropane	96-12-8	25
1,2,4-Trimethylbenzene	95-63-6	25
1,2,4-Trichlorobenzene	120-82-1	25
1,2,3-Trichloropropane	96-18-4	25
1,2,3-Trichlorobenzene	87-61-6	25
1,1-Dichloropropene	563-58-6	25
1,1-Dichloroethene	75-35-4	25
1,1-Dichloroethane	75-34-3	25
1,1,2-Trichloroethane	79-00-5	25
1,1,2,2-Tetrachloroethane	79-34-5	25
1,1,1-Trichloroethane	71-55-6	25
1,2-Dichloroethane	107-06-2	25
Isopropylbenzene	98-82-8	25
trans-1,3-Dichloropropene	10061-02-6	25
trans-1,2-Dichloroethene	156-60-5	25

Analytical Standard Record

EPA Region 9 Laboratory

2030068

Toluene-d8	2037-26-5	25
Toluene	108-88-3	25
Tetrachloroethene	127-18-4	25
tert-Butylbenzene	98-06-6	25
Styrene	100-42-5	25
sec-Butylbenzene	135-98-8	25
Propylbenzene	103-65-1	25
p-Isopropyltoluene	99-87-6	25
o-Xylene	95-47-6	25
Bromochloromethane	74-97-5	25
m&p-Xylene	179601-23-1	50
Bromodichloromethane	75-27-4	25
Hexachlorobutadiene	87-68-3	25
Ethylbenzene	100-41-4	25
Dichloromethane	75-09-2	25
Dibromomethane	74-95-3	25
cis-1,3-Dichloropropene	10061-01-5	25
cis-1,2-Dichloroethene	156-59-2	25
Chloroform	67-66-3	25
Chlorodibromomethane	124-48-1	25
Chlorobenzene	108-90-7	25
Carbon tetrachloride	56-23-5	25
Butylbenzene	104-51-8	25
Trichloroethene	79-01-6	25
Naphthalene	91-20-3	25

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
2030066	Passive indoor air stock std 50	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:55 by TD	5
2030065	Passive indoor air Internal Standard Sto	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:52 by TD	0.005

Analytical Standard Record

EPA Region 9 Laboratory

2030069

Description:	Passive indoor air 10	**Expires:**	01/22/21
Standard Type:	Other Solution	**Prepared:**	07/22/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	07/22/20 08:59 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	10
Bromobenzene	108-86-1	10
Benzene	71-43-2	10
4-Chlorotoluene	106-43-4	10
2-Fluorotoluene	95-52-3	5
2-Chlorotoluene	95-49-8	10
2,2-Dichloropropane	594-20-7	10
1,4-Dichlorobenzene	106-46-7	10
1,3-Dichloropropane	142-28-9	10
1,3-Dichlorobenzene	541-73-1	10
1,3,5-Trimethylbenzene	108-67-8	10
1,2-Dichloropropane	78-87-5	10
1,1,1,2-Tetrachloroethane	630-20-6	10
1,2-Dichlorobenzene	95-50-1	10
Bromoform	75-25-2	10
1,2-Dibromo-3-chloropropane	96-12-8	10
1,2,4-Trimethylbenzene	95-63-6	10
1,2,4-Trichlorobenzene	120-82-1	10
1,2,3-Trichloropropane	96-18-4	10
1,2,3-Trichlorobenzene	87-61-6	10
1,1-Dichloropropene	563-58-6	10
1,1-Dichloroethene	75-35-4	10
1,1-Dichloroethane	75-34-3	10
1,1,2-Trichloroethane	79-00-5	10
1,1,2,2-Tetrachloroethane	79-34-5	10
1,1,1-Trichloroethane	71-55-6	10
1,2-Dichloroethane	107-06-2	10
Isopropylbenzene	98-82-8	10
trans-1,3-Dichloropropene	10061-02-6	10
trans-1,2-Dichloroethene	156-60-5	10

Analytical Standard Record

EPA Region 9 Laboratory

2030069

Toluene-d8	2037-26-5	10
Toluene	108-88-3	10
Tetrachloroethene	127-18-4	10
tert-Butylbenzene	98-06-6	10
Styrene	100-42-5	10
sec-Butylbenzene	135-98-8	10
Propylbenzene	103-65-1	10
p-Isopropyltoluene	99-87-6	10
o-Xylene	95-47-6	10
Bromochloromethane	74-97-5	10
m&p-Xylene	179601-23-1	20
Bromodichloromethane	75-27-4	10
Hexachlorobutadiene	87-68-3	10
Ethylbenzene	100-41-4	10
Dichloromethane	75-09-2	10
Dibromomethane	74-95-3	10
cis-1,3-Dichloropropene	10061-01-5	10
cis-1,2-Dichloroethene	156-59-2	10
Chloroform	67-66-3	10
Chlorodibromomethane	124-48-1	10
Chlorobenzene	108-90-7	10
Carbon tetrachloride	56-23-5	10
Butylbenzene	104-51-8	10
Trichloroethene	79-01-6	10
Naphthalene	91-20-3	10

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
2030066	Passive indoor air stock std 50	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:55 by TD	2
2030065	Passive indoor air Internal Standard Sto	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:52 by TD	0.005

Analytical Standard Record

EPA Region 9 Laboratory

2030070

Description:	Passive indoor air 5	**Expires:**	01/22/21
Standard Type:	Other Solution	**Prepared:**	07/22/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	07/22/20 08:59 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	5
Bromobenzene	108-86-1	5
Benzene	71-43-2	5
4-Chlorotoluene	106-43-4	5
2-Fluorotoluene	95-52-3	5
2-Chlorotoluene	95-49-8	5
2,2-Dichloropropane	594-20-7	5
1,4-Dichlorobenzene	106-46-7	5
1,3-Dichloropropane	142-28-9	5
1,3-Dichlorobenzene	541-73-1	5
1,3,5-Trimethylbenzene	108-67-8	5
1,2-Dichloropropane	78-87-5	5
1,1,1,2-Tetrachloroethane	630-20-6	5
1,2-Dichlorobenzene	95-50-1	5
Bromoform	75-25-2	5
1,2-Dibromo-3-chloropropane	96-12-8	5
1,2,4-Trimethylbenzene	95-63-6	5
1,2,4-Trichlorobenzene	120-82-1	5
1,2,3-Trichloropropane	96-18-4	5
1,2,3-Trichlorobenzene	87-61-6	5
1,1-Dichloropropene	563-58-6	5
1,1-Dichloroethene	75-35-4	5
1,1-Dichloroethane	75-34-3	5
1,1,2-Trichloroethane	79-00-5	5
1,1,2,2-Tetrachloroethane	79-34-5	5
1,1,1-Trichloroethane	71-55-6	5
1,2-Dichloroethane	107-06-2	5
Isopropylbenzene	98-82-8	5
trans-1,3-Dichloropropene	10061-02-6	5
trans-1,2-Dichloroethene	156-60-5	5

Analytical Standard Record

EPA Region 9 Laboratory

2030070

Toluene-d8	2037-26-5	5
Toluene	108-88-3	5
Tetrachloroethene	127-18-4	5
tert-Butylbenzene	98-06-6	5
Styrene	100-42-5	5
sec-Butylbenzene	135-98-8	5
Propylbenzene	103-65-1	5
p-Isopropyltoluene	99-87-6	5
o-Xylene	95-47-6	5
Bromochloromethane	74-97-5	5
m&p-Xylene	179601-23-1	10
Bromodichloromethane	75-27-4	5
Hexachlorobutadiene	87-68-3	5
Ethylbenzene	100-41-4	5
Dichloromethane	75-09-2	5
Dibromomethane	74-95-3	5
cis-1,3-Dichloropropene	10061-01-5	5
cis-1,2-Dichloroethene	156-59-2	5
Chloroform	67-66-3	5
Chlorodibromomethane	124-48-1	5
Chlorobenzene	108-90-7	5
Carbon tetrachloride	56-23-5	5
Butylbenzene	104-51-8	5
Trichloroethene	79-01-6	5
Naphthalene	91-20-3	5

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
2030066	Passive indoor air stock std 50	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:55 by TD	1
2030065	Passive indoor air Internal Standard Sto	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:52 by TD	0.005

Analytical Standard Record

EPA Region 9 Laboratory

2030071

Description:	Passive indoor air 1	**Expires:**	01/22/21
Standard Type:	Other Solution	**Prepared:**	07/22/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	07/22/20 09:00 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	1
Bromobenzene	108-86-1	1
Benzene	71-43-2	1
4-Chlorotoluene	106-43-4	1
2-Fluorotoluene	95-52-3	5
2-Chlorotoluene	95-49-8	1
2,2-Dichloropropane	594-20-7	1
1,4-Dichlorobenzene	106-46-7	1
1,3-Dichloropropane	142-28-9	1
1,3-Dichlorobenzene	541-73-1	1
1,3,5-Trimethylbenzene	108-67-8	1
1,2-Dichloropropane	78-87-5	1
1,1,1,2-Tetrachloroethane	630-20-6	1
1,2-Dichlorobenzene	95-50-1	1
Bromoform	75-25-2	1
1,2-Dibromo-3-chloropropane	96-12-8	1
1,2,4-Trimethylbenzene	95-63-6	1
1,2,4-Trichlorobenzene	120-82-1	1
1,2,3-Trichloropropane	96-18-4	1
1,2,3-Trichlorobenzene	87-61-6	1
1,1-Dichloropropene	563-58-6	1
1,1-Dichloroethene	75-35-4	1
1,1-Dichloroethane	75-34-3	1
1,1,2-Trichloroethane	79-00-5	1
1,1,2,2-Tetrachloroethane	79-34-5	1
1,1,1-Trichloroethane	71-55-6	1
1,2-Dichloroethane	107-06-2	1
Isopropylbenzene	98-82-8	1
trans-1,3-Dichloropropene	10061-02-6	1
trans-1,2-Dichloroethene	156-60-5	1

Analytical Standard Record

EPA Region 9 Laboratory

2030071

Toluene-d8	2037-26-5	1
Toluene	108-88-3	1
Tetrachloroethene	127-18-4	1
tert-Butylbenzene	98-06-6	1
Styrene	100-42-5	1
sec-Butylbenzene	135-98-8	1
Propylbenzene	103-65-1	1
p-Isopropyltoluene	99-87-6	1
o-Xylene	95-47-6	1
Bromochloromethane	74-97-5	1
m&p-Xylene	179601-23-1	2
Bromodichloromethane	75-27-4	1
Hexachlorobutadiene	87-68-3	1
Ethylbenzene	100-41-4	1
Dichloromethane	75-09-2	1
Dibromomethane	74-95-3	1
cis-1,3-Dichloropropene	10061-01-5	1
cis-1,2-Dichloroethene	156-59-2	1
Chloroform	67-66-3	1
Chlorodibromomethane	124-48-1	1
Chlorobenzene	108-90-7	1
Carbon tetrachloride	56-23-5	1
Butylbenzene	104-51-8	1
Trichloroethene	79-01-6	1
Naphthalene	91-20-3	1

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
2030066	Passive indoor air stock std 50	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:55 by TD	0.2
2030065	Passive indoor air Internal Standard Sto	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:52 by TD	0.005

Analytical Standard Record

EPA Region 9 Laboratory

2030072

Description:	Passive indoor air 0.15	**Expires:**	01/22/21
Standard Type:	Other Solution	**Prepared:**	07/22/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	07/22/20 09:01 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	0.15
Bromobenzene	108-86-1	0.15
Benzene	71-43-2	0.15
4-Chlorotoluene	106-43-4	0.15
2-Fluorotoluene	95-52-3	5
2-Chlorotoluene	95-49-8	0.15
2,2-Dichloropropane	594-20-7	0.15
1,4-Dichlorobenzene	106-46-7	0.15
1,3-Dichloropropane	142-28-9	0.15
1,3-Dichlorobenzene	541-73-1	0.15
1,3,5-Trimethylbenzene	108-67-8	0.15
1,2-Dichloropropane	78-87-5	0.15
1,1,1,2-Tetrachloroethane	630-20-6	0.15
1,2-Dichlorobenzene	95-50-1	0.15
Bromoform	75-25-2	0.15
1,2-Dibromo-3-chloropropane	96-12-8	0.15
1,2,4-Trimethylbenzene	95-63-6	0.15
1,2,4-Trichlorobenzene	120-82-1	0.15
1,2,3-Trichloropropane	96-18-4	0.15
1,2,3-Trichlorobenzene	87-61-6	0.15
1,1-Dichloropropene	563-58-6	0.15
1,1-Dichloroethene	75-35-4	0.15
1,1-Dichloroethane	75-34-3	0.15
1,1,2-Trichloroethane	79-00-5	0.15
1,1,2,2-Tetrachloroethane	79-34-5	0.15
1,1,1-Trichloroethane	71-55-6	0.15
1,2-Dichloroethane	107-06-2	0.15
Isopropylbenzene	98-82-8	0.15
trans-1,3-Dichloropropene	10061-02-6	0.15
trans-1,2-Dichloroethene	156-60-5	0.15

Analytical Standard Record

EPA Region 9 Laboratory

2030072

Toluene-d8	2037-26-5	0.15
Toluene	108-88-3	0.15
Tetrachloroethene	127-18-4	0.15
tert-Butylbenzene	98-06-6	0.15
Styrene	100-42-5	0.15
sec-Butylbenzene	135-98-8	0.15
Propylbenzene	103-65-1	0.15
p-Isopropyltoluene	99-87-6	0.15
o-Xylene	95-47-6	0.15
Bromochloromethane	74-97-5	0.15
m&p-Xylene	179601-23-1	0.3
Bromodichloromethane	75-27-4	0.15
Hexachlorobutadiene	87-68-3	0.15
Ethylbenzene	100-41-4	0.15
Dichloromethane	75-09-2	0.15
Dibromomethane	74-95-3	0.15
cis-1,3-Dichloropropene	10061-01-5	0.15
cis-1,2-Dichloroethene	156-59-2	0.15
Chloroform	67-66-3	0.15
Chlorodibromomethane	124-48-1	0.15
Chlorobenzene	108-90-7	0.15
Carbon tetrachloride	56-23-5	0.15
Butylbenzene	104-51-8	0.15
Trichloroethene	79-01-6	0.15
Naphthalene	91-20-3	0.15

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
2030066	Passive indoor air stock std 50	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:55 by TD	0.03
2030065	Passive indoor air Internal Standard Sto	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:52 by TD	0.005

Analytical Standard Record

EPA Region 9 Laboratory

2030073

Description:	Passive indoor air 0.05	**Expires:**	01/22/21
Standard Type:	Other Solution	**Prepared:**	07/22/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	07/22/20 09:01 by TD
Vendor:	*Prepared*	**Lot Numbe**	1705143

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	0.05
Bromobenzene	108-86-1	0.05
Benzene	71-43-2	0.05
4-Chlorotoluene	106-43-4	0.05
2-Fluorotoluene	95-52-3	5
2-Chlorotoluene	95-49-8	0.05
2,2-Dichloropropane	594-20-7	0.05
1,4-Dichlorobenzene	106-46-7	0.05
1,3-Dichloropropane	142-28-9	0.05
1,3-Dichlorobenzene	541-73-1	0.05
1,3,5-Trimethylbenzene	108-67-8	0.05
1,2-Dichloropropane	78-87-5	0.05
1,1,1,2-Tetrachloroethane	630-20-6	0.05
1,2-Dichlorobenzene	95-50-1	0.05
Bromoform	75-25-2	0.05
1,2-Dibromo-3-chloropropane	96-12-8	0.05
1,2,4-Trimethylbenzene	95-63-6	0.05
1,2,4-Trichlorobenzene	120-82-1	0.05
1,2,3-Trichloropropane	96-18-4	0.05
1,2,3-Trichlorobenzene	87-61-6	0.05
1,1-Dichloropropene	563-58-6	0.05
1,1-Dichloroethene	75-35-4	0.05
1,1-Dichloroethane	75-34-3	0.05
1,1,2-Trichloroethane	79-00-5	0.05
1,1,2,2-Tetrachloroethane	79-34-5	0.05
1,1,1-Trichloroethane	71-55-6	0.05
1,2-Dichloroethane	107-06-2	0.05
Isopropylbenzene	98-82-8	0.05
trans-1,3-Dichloropropene	10061-02-6	0.05
trans-1,2-Dichloroethene	156-60-5	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2030073

Toluene-d8	2037-26-5	0.05
Toluene	108-88-3	0.05
Tetrachloroethene	127-18-4	0.05
tert-Butylbenzene	98-06-6	0.05
Styrene	100-42-5	0.05
sec-Butylbenzene	135-98-8	0.05
Propylbenzene	103-65-1	0.05
p-Isopropyltoluene	99-87-6	0.05
o-Xylene	95-47-6	0.05
Bromochloromethane	74-97-5	0.05
m&p-Xylene	179601-23-1	0.1
Bromodichloromethane	75-27-4	0.05
Hexachlorobutadiene	87-68-3	0.05
Ethylbenzene	100-41-4	0.05
Dichloromethane	75-09-2	0.05
Dibromomethane	74-95-3	0.05
cis-1,3-Dichloropropene	10061-01-5	0.05
cis-1,2-Dichloroethene	156-59-2	0.05
Chloroform	67-66-3	0.05
Chlorodibromomethane	124-48-1	0.05
Chlorobenzene	108-90-7	0.05
Carbon tetrachloride	56-23-5	0.05
Butylbenzene	104-51-8	0.05
Trichloroethene	79-01-6	0.05
Naphthalene	91-20-3	0.05

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
2030066	Passive indoor air stock std 50	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:55 by TD	0.01
2030065	Passive indoor air Internal Standard Sto	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:52 by TD	0.005

Analytical Standard Record

EPA Region 9 Laboratory

2030074

Description:	Passive indoor air SCV	**Expires:**	09/30/20
Standard Type:	Other Solution	**Prepared:**	07/22/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	07/22/20 09:03 by TD
Vendor:	*Prepared*	**Lot Numbe**	1811012

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	5
1,1,1,2-Tetrachloroethane	630-20-6	5
Benzene	71-43-2	5
4-Chlorotoluene	106-43-4	5
2-Fluorotoluene	95-52-3	5
2-Chlorotoluene	95-49-8	5
2,2-Dichloropropane	594-20-7	5
1,4-Dichlorobenzene	106-46-7	5
1,3-Dichloropropane	142-28-9	5
1,3-Dichlorobenzene	541-73-1	5
1,3,5-Trimethylbenzene	108-67-8	5
1,2-Dichloropropane	78-87-5	5
Bromochloromethane	74-97-5	5
1,2-Dichlorobenzene	95-50-1	5
Bromodichloromethane	75-27-4	5
1,2-Dibromo-3-chloropropane	96-12-8	5
1,2,4-Trimethylbenzene	95-63-6	5
1,2,4-Trichlorobenzene	120-82-1	5
1,2,3-Trimethylbenzene	526-73-8	5
1,2,3-Trichloropropane	96-18-4	5
1,2,3-Trichlorobenzene	87-61-6	5
1,1-Dichloropropene	563-58-6	5
1,1-Dichloroethene	75-35-4	5
1,1-Dichloroethane	75-34-3	5
1,1,2-Trichloroethane	79-00-5	5
1,1,2,2-Tetrachloroethane	79-34-5	5
1,1,1-Trichloroethane	71-55-6	5
1,2-Dichloroethane	107-06-2	5
Isopropylbenzene	98-82-8	5
trans-1,3-Dichloropropene	10061-02-6	5

Analytical Standard Record

EPA Region 9 Laboratory

2030074

trans-1,2-Dichloroethene	156-60-5	5
Toluene-d8	2037-26-5	5
Toluene	108-88-3	5
Tetrachloroethene	127-18-4	5
tert-Butylbenzene	98-06-6	5
Styrene	100-42-5	5
sec-Butylbenzene	135-98-8	5
Propylbenzene	103-65-1	5
p-Isopropyltoluene	99-87-6	5
o-Xylene	95-47-6	5
Bromobenzene	108-86-1	5
m&p-Xylene	179601-23-1	10
Trichloroethene	79-01-6	5
Hexachlorobutadiene	87-68-3	5
Ethylbenzene	100-41-4	5
Dichloromethane	75-09-2	5
Dibromomethane	74-95-3	5
cis-1,3-Dichloropropene	10061-01-5	5
cis-1,2-Dichloroethene	156-59-2	5
Chloroform	67-66-3	5
Chlorodibromomethane	124-48-1	5
Chlorobenzene	108-90-7	5
Carbon tetrachloride	56-23-5	5
Butylbenzene	104-51-8	5
Bromoform	75-25-2	5
Naphthalene	91-20-3	5

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1843069	VOA 502/524 VOC Mix, Stock	10/24/18	** Vendor **	09/30/20	07/22/20 08:50 by TD	0.025
2030067	Passive air Surrogate/I.S. Working solu	07/22/20	Tatyana Dadiomov	01/22/21	07/22/20 08:56 by TD	0.25

Analytical Standard Record

EPA Region 9 Laboratory

2039024

Description:	VOA BFB tuning mix, stock STD.	**Expires:**	10/31/25
Standard Type:	Other Solution	**Prepared:**	09/24/20
Solvent:	Solvent Lot #	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	09/24/20 11:26 by EM
Vendor:	Restek	**Lot Numbe**	A0162498

RESTEK Cat No. 30003, LOT # A0162498 Bar code #AU012127

Analyte	CAS Number	Concentration (ppm)
4-Bromofluorobenzene	460-00-4	5000

CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30003 **Lot No.:** A0162498

Description : VOA Tuning Compound Mix

VOA Tuning Compound Mix 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2025 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1-Bromo-4-fluorobenzene (BFB)	5,012.0 µg/mL	+/- 29.4132 µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 281.0463 µg/mL	Unstressed
	Purity 99%		+/- 287.6211 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

AU012127/2039024
AU012128/2039025
AU012129/2039026
AU012130/2039027
AU012131/2039028

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

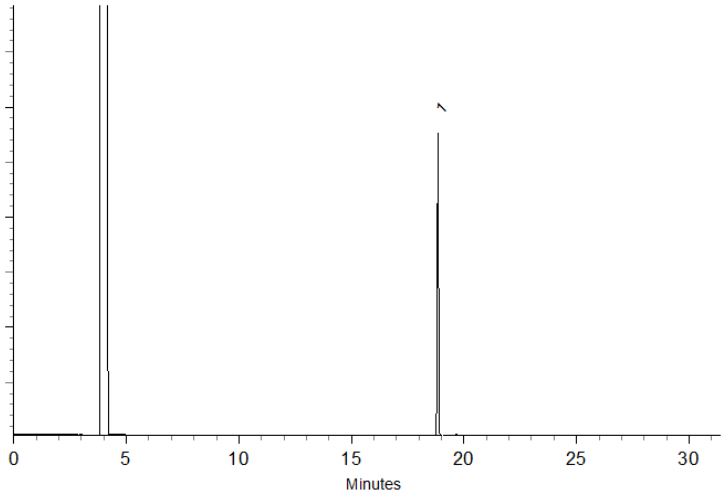
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kylie Struble - Operations Technician I

Date Mixed: 13-Jul-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 14-Jul-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Analytical Standard Record

EPA Region 9 Laboratory

2040028

Description:	passive air WORKING BFB 50 mg/L	**Expires:**	03/30/21
Standard Type:	Other Solution	**Prepared:**	09/30/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	5	**Department:**	Volatiles
Vials:	1	**Last Edit:**	10/05/20 08:43 by TD
Vendor:	*Prepared*	**Lot Numbe**	1748145

Analyte	CAS Number	Concentration (ppm)
4-Bromofluorobenzene	460-00-4	50

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
2039024	VOA BFB tuning mix, stock STD.	09/24/20	** Vendor **	10/31/25	09/24/20 11:26 by EM	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2047001

Description:	Passive indoor air MRL Spike	**Expires:**	05/16/21
Standard Type:	Analyte Spike	**Prepared:**	11/16/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	2	**Department:**	Volatiles
Vials:	1	**Last Edit:**	11/16/20 06:20 by TD
Vendor:	*Prepared*	**Lot Numbe**	A0150913

Analyte	CAS Number	Concentration (ppm)
1,2-Dibromoethane (EDB)	106-93-4	20
Bromobenzene	108-86-1	20
Benzene	71-43-2	20
4-Chlorotoluene	106-43-4	20
2-Chlorotoluene	95-49-8	20
2,2-Dichloropropane	594-20-7	20
1,4-Dichlorobenzene	106-46-7	20
1,3-Dichloropropane	142-28-9	20
1,3-Dichlorobenzene	541-73-1	20
1,3,5-Trimethylbenzene	108-67-8	20
1,2-Dichloropropane	78-87-5	20
1,1,1,2-Tetrachloroethane	630-20-6	20
1,2-Dichlorobenzene	95-50-1	20
Bromoform	75-25-2	20
1,2-Dibromo-3-chloropropane	96-12-8	20
1,2,4-Trimethylbenzene	95-63-6	20
1,2,4-Trichlorobenzene	120-82-1	20
1,2,3-Trichloropropane	96-18-4	20
1,2,3-Trichlorobenzene	87-61-6	20
1,1-Dichloropropene	563-58-6	20
1,1-Dichloroethene	75-35-4	20
1,1-Dichloroethane	75-34-3	20
1,1,2-Trichloroethane	79-00-5	20
1,1,2,2-Tetrachloroethane	79-34-5	20
1,1,1-Trichloroethane	71-55-6	20
1,2-Dichloroethane	107-06-2	20
Hexachlorobutadiene	87-68-3	20
trans-1,3-Dichloropropene	10061-02-6	20
trans-1,2-Dichloroethene	156-60-5	20
Toluene	108-88-3	20

Analytical Standard Record

EPA Region 9 Laboratory

2047001

Tetrachloroethene	127-18-4	20
tert-Butylbenzene	98-06-6	20
Styrene	100-42-5	20
sec-Butylbenzene	135-98-8	20
Propylbenzene	103-65-1	20
p-Isopropyltoluene	99-87-6	20
o-Xylene	95-47-6	20
Naphthalene	91-20-3	20
Bromochloromethane	74-97-5	20
Isopropylbenzene	98-82-8	20
Bromodichloromethane	75-27-4	20
Ethylbenzene	100-41-4	20
Dichloromethane	75-09-2	20
Dibromomethane	74-95-3	20
cis-1,3-Dichloropropene	10061-01-5	20
cis-1,2-Dichloroethene	156-59-2	20
Chloroform	67-66-3	20
Chlorodibromomethane	124-48-1	20
Chlorobenzene	108-90-7	20
Carbon tetrachloride	56-23-5	20
Butylbenzene	104-51-8	20
Trichloroethene	79-01-6	20
m&p-Xylene	179601-23-1	40

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
2006155	VOA 502.2 CAL 2000 MEGA MIX, St	07/16/19	** Vendor **	05/31/21	11/16/20 06:17 by TD	0.02