Table of Contents

Lab Report (PKG)	*2*
Batch Data (B20K043)	*18*
Raw Data (2008017)	*22*
QLS (S20K052)	*1061*
QLS (S20K055)	*1162*
Second Source (S20H039)	*1214*
Standards PDFs (PKG)	*1217*

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 2011015

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: 2011015**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 11/24/20 14:04
Project: MEW OU1 FY2021 Vapor Intrusion Investigation	**San Francisco CA, 94105**	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
6Sixty-MH1-3ft-4d-R	2011015-01	Radiello 130	11/06/20 16:43	11/11/20 12:08
6Sixty-MH1-3ft-4d-R-Dup	2011015-02	Radiello 130	11/06/20 16:43	11/11/20 12:08
6Sixty-MH2-2ft-4d-R	2011015-03	Radiello 130	11/06/20 16:50	11/11/20 12:08
6Sixty-MH3-2ft-4d-R	2011015-04	Radiello 130	11/06/20 16:54	11/11/20 12:08
6Sixty-MH4-2ft-4d-R	2011015-05	Radiello 130	11/06/20 17:15	11/11/20 12:08
6Sixty-MH5-2ft-4d	2011015-06	Radiello 130	11/06/20 17:20	11/11/20 12:08
6Sixty-MH6-2ft-4d	2011015-07	Radiello 130	11/06/20 17:26	11/11/20 12:08
6Sixty-MH7-2ft-4d	2011015-08	Radiello 130	11/06/20 17:30	11/11/20 12:08
6Sixty-MH8-2ft-4d	2011015-09	Radiello 130	11/06/20 17:40	11/11/20 12:08
6Sixty-MH9-2ft-4d	2011015-10	Radiello 130	11/06/20 17:44	11/11/20 12:08
6Sixty-MH10-2ft-4d	2011015-11	Radiello 130	11/06/20 17:47	11/11/20 12:08
6Sixty-MH11-2ft-4d	2011015-12	Radiello 130	11/06/20 17:51	11/11/20 12:08
F6-010-3ft-4d-R	2011015-13	Radiello 130	11/06/20 16:25	11/11/20 12:08
F6-006-3ft-4d-R	2011015-15	Radiello 130	11/06/20 16:09	11/11/20 12:08

Work Order 2011015

Sample F6-008-3ft-4d-R (2011015-14) had adsobed water and a water layer formed in the solvent extract. Analysis was cancelled for that sample.

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Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 11/24/20 14:04
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: 2011015-01									**Radiello 130 - Sampled: 11/06/20 16:43**
Sample ID: 6Sixty-MH1-3ft-4d-R									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		4.6		0.22	ug/m³ Air	B20K043	11/12/20	11/12/20	Radiello D1
trans-1,2-Dichloroethene		9.4		0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		3.7		0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		120		0.27	"	"	"	"	Radiello D1
Chloroform		87		0.22	"	"	"	"	Radiello D1
Trichloroethene	RE1	620		2.4	"	"	"	11/13/20	Radiello D1
Tetrachloroethene		29		0.29	"	"	"	11/12/20	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		"	"	"	
Lab ID: 2011015-02									**Radiello 130 - Sampled: 11/06/20 16:43**
Sample ID: 6Sixty-MH1-3ft-4d-R-Dup									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		4.2		0.22	ug/m³ Air	B20K043	11/12/20	11/12/20	Radiello D1
trans-1,2-Dichloroethene		7.9		0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		3.3		0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		110		0.27	"	"	"	"	Radiello D1
Chloroform		75		0.22	"	"	"	"	Radiello D1
Trichloroethene	RE1	570		2.4	"	"	"	11/13/20	Radiello D1
Tetrachloroethene		24		0.29	"	"	"	11/12/20	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		"	"	"	
Lab ID: 2011015-03									**Radiello 130 - Sampled: 11/06/20 16:50**
Sample ID: 6Sixty-MH2-2ft-4d-R									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		2.9		0.22	ug/m³ Air	B20K043	11/12/20	11/12/20	Radiello D1
trans-1,2-Dichloroethene		5.4		0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		2.4		0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		72		0.27	"	"	"	"	Radiello D1
Chloroform		55		0.22	"	"	"	"	Radiello D1
Trichloroethene	RE1	460		2.4	"	"	"	11/13/20	Radiello D1
Tetrachloroethene		17		0.29	"	"	"	11/12/20	Radiello D1
Surrogate: Toluene-d8			87 %	*86-118%*		"	"	"	
Lab ID: 2011015-04									**Radiello 130 - Sampled: 11/06/20 16:54**
Sample ID: 6Sixty-MH3-2ft-4d-R									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		3.9		0.22	ug/m³ Air	B20K043	11/12/20	11/12/20	Radiello D1
trans-1,2-Dichloroethene		7.3		0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		3.0		0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		97		0.27	"	"	"	"	Radiello D1
Chloroform		71		0.22	"	"	"	"	Radiello D1
Trichloroethene	RE1	490		2.4	"	"	"	11/13/20	Radiello D1
Tetrachloroethene		22		0.29	"	"	"	11/12/20	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		"	"	"	

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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: 2011015
Reported: 11/24/20 14:04

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 2011015-05									**Radiello 130 - Sampled: 11/06/20 17:15**
Sample ID: 6Sixty-MH4-2ft-4d-R									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		2.2		0.22	ug/m³ Air	B20K043	11/12/20	11/12/20	Radiello D1
trans-1,2-Dichloroethene		3.5		0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		2.0		0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		49		0.27	"	"	"	"	Radiello D1
Chloroform		44		0.22	"	"	"	"	Radiello D1
Trichloroethene	RE1	230		2.4	"	"	"	11/13/20	Radiello D1
Tetrachloroethene		9.3		0.28	"	"	"	11/12/20	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		"	"	"	
Lab ID: 2011015-06									**Radiello 130 - Sampled: 11/06/20 17:20**
Sample ID: 6Sixty-MH5-2ft-4d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.39		0.22	ug/m³ Air	B20K043	11/12/20	11/12/20	Radiello D1
trans-1,2-Dichloroethene		0.55		0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.40		0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		7.4		0.27	"	"	"	"	Radiello D1
Chloroform		9.9		0.22	"	"	"	"	Radiello D1
Trichloroethene		23		0.24	"	"	"	"	Radiello D1
Tetrachloroethene		0.89		0.28	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			87 %	*86-118%*		"	"	"	
Lab ID: 2011015-07									**Radiello 130 - Sampled: 11/06/20 17:26**
Sample ID: 6Sixty-MH6-2ft-4d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.73		0.22	ug/m³ Air	B20K043	11/12/20	11/12/20	Radiello D1
trans-1,2-Dichloroethene		1.1		0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.69		0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		15		0.27	"	"	"	"	Radiello D1
Chloroform		21		0.22	"	"	"	"	Radiello D1
Trichloroethene		49		0.24	"	"	"	"	Radiello D1
Tetrachloroethene		2.0		0.28	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		"	"	"	
Lab ID: 2011015-08									**Radiello 130 - Sampled: 11/06/20 17:30**
Sample ID: 6Sixty-MH7-2ft-4d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.53		0.22	ug/m³ Air	B20K043	11/12/20	11/12/20	Radiello D1
trans-1,2-Dichloroethene		0.82		0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.53		0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		11		0.27	"	"	"	"	Radiello D1
Chloroform		18		0.22	"	"	"	"	Radiello D1
Trichloroethene		40		0.24	"	"	"	"	Radiello D1
Tetrachloroethene		1.7		0.28	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		"	"	"	

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Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2011015**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 11/24/20 14:04
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: 2011015-09									**Radiello 130 - Sampled: 11/06/20 17:40**
Sample ID: 6Sixty-MH8-2ft-4d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.22	ug/m³ Air	B20K043	11/12/20	11/12/20	Radiello D1
trans-1,2-Dichloroethene		ND	U	0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	0.27	"	"	"	"	Radiello D1
Chloroform		7.3		0.22	"	"	"	"	Radiello D1
Trichloroethene		ND	U	0.24	"	"	"	"	Radiello D1
Tetrachloroethene		ND	U	0.28	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			89 %	*86-118%*		"	"	"	
Lab ID: 2011015-10									**Radiello 130 - Sampled: 11/06/20 17:44**
Sample ID: 6Sixty-MH9-2ft-4d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.22	ug/m³ Air	B20K043	11/12/20	11/12/20	Radiello D1
trans-1,2-Dichloroethene		ND	U	0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		ND	U	0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		ND	U	0.27	"	"	"	"	Radiello D1
Chloroform		2.1		0.22	"	"	"	"	Radiello D1
Trichloroethene		0.40		0.24	"	"	"	"	Radiello D1
Tetrachloroethene		0.17	C1, J	0.28	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			90 %	*86-118%*		"	"	"	
Lab ID: 2011015-11									**Radiello 130 - Sampled: 11/06/20 17:47**
Sample ID: 6Sixty-MH10-2ft-4d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.49		0.22	ug/m³ Air	B20K043	11/12/20	11/12/20	Radiello D1
trans-1,2-Dichloroethene		0.69		0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		0.50		0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		9.0		0.27	"	"	"	"	Radiello D1
Chloroform		19		0.22	"	"	"	"	Radiello D1
Trichloroethene		29		0.24	"	"	"	"	Radiello D1
Tetrachloroethene		1.2		0.28	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		"	"	"	
Lab ID: 2011015-12									**Radiello 130 - Sampled: 11/06/20 17:51**
Sample ID: 6Sixty-MH11-2ft-4d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		2.5		0.22	ug/m³ Air	B20K043	11/12/20	11/12/20	Radiello D1
trans-1,2-Dichloroethene		3.5		0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		2.1		0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		47		0.27	"	"	"	"	Radiello D1
Chloroform		56		0.22	"	"	"	"	Radiello D1
Trichloroethene	RE1	210		2.4	"	"	"	11/13/20	Radiello D1
Tetrachloroethene		8.0		0.28	"	"	"	11/12/20	Radiello D1

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Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2011015**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 11/24/20 14:04
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: 2011015-12									**Radiello 130 - Sampled: 11/06/20 17:51**
Sample ID: 6Sixty-MH11-2ft-4d									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
Surrogate: Toluene-d8			87 %	*86-118%*		*B20K043*	*11/12/20*	*11/12/20*	
Lab ID: 2011015-13									**Radiello 130 - Sampled: 11/06/20 16:25**
Sample ID: F6-010-3ft-4d-R									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		6.3		0.22	ug/m³ Air	B20K043	11/12/20	11/12/20	Radiello D1
trans-1,2-Dichloroethene		14		0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		6.3		0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene	RE1	160		5.4	"	"	"	11/13/20	Radiello D1
Chloroform		55		0.22	"	"	"	11/12/20	Radiello D1
Trichloroethene	RE1	860		4.9	"	"	"	11/13/20	Radiello D1
Tetrachloroethene		42		0.28	"	"	"	11/12/20	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		*"*	*"*	*"*	
Lab ID: 2011015-15									**Radiello 130 - Sampled: 11/06/20 16:09**
Sample ID: F6-006-3ft-4d-R									
						Volatile Organic Compounds Collected on Passive Air Sampling Devices			
1,1-Dichloroethene		7.6		0.22	ug/m³ Air	B20K043	11/12/20	11/12/20	Radiello D1
trans-1,2-Dichloroethene		17		0.27	"	"	"	"	Radiello D1
1,1-Dichloroethane		7.8		0.27	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene	RE1	230		5.4	"	"	"	11/13/20	Radiello D1
Chloroform		75		0.22	"	"	"	11/12/20	Radiello D1
Trichloroethene	RE1	1,100		4.9	"	"	"	11/13/20	Radiello D1
Tetrachloroethene		45		0.29	"	"	"	11/12/20	Radiello D1
Surrogate: Toluene-d8			88 %	*86-118%*		*"*	*"*	*"*	

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Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 11/24/20 14:04
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 B20K043 - Passive Air Sampler										
Blank (B20K043-BLK1)				Prepared & Analyzed: 11/12/20						
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	*877*		ug/m³ Air	*992*		*88*	*86-118*			
LCS (B20K043-BS1)				Prepared & Analyzed: 11/12/20						
1,1-Dichloroethene	11.6	0.13	ug/m³ Air	13.1		89	22-143			
trans-1,2-Dichloroethene	13.9	0.16	ug/m³ Air	16.0		87	35-133			
1,1-Dichloroethane	14.2	0.16	ug/m³ Air	15.7		90	43-140			
cis-1,2-Dichloroethene	14.3	0.16	ug/m³ Air	16.0		89	49-134			
Chloroform	11.4	0.13	ug/m³ Air	13.2		87	56-132			
Trichloroethene	12.2	0.14	ug/m³ Air	14.4		85	69-124			
Tetrachloroethene	14.1	0.17	ug/m³ Air	16.8		84	69-124			
Surrogate: Toluene-d8	*890*		ug/m³ Air	*992*		*90*	*86-118*			
LCS Dup (B20K043-BSD1)				Prepared & Analyzed: 11/12/20						
1,1-Dichloroethene	13.2	0.13	ug/m³ Air	13.1		101	22-143	12	62	
trans-1,2-Dichloroethene	15.6	0.16	ug/m³ Air	16.0		98	35-133	12	53	
1,1-Dichloroethane	16.0	0.16	ug/m³ Air	15.7		101	43-140	12	44	
cis-1,2-Dichloroethene	15.8	0.16	ug/m³ Air	16.0		99	49-134	10	39	
Chloroform	12.7	0.13	ug/m³ Air	13.2		96	56-132	10	41	
Trichloroethene	12.6	0.14	ug/m³ Air	14.4		88	69-124	4	20	
Tetrachloroethene	14.0	0.17	ug/m³ Air	16.8		83	69-124	0.9	20	
Surrogate: Toluene-d8	*889*		ug/m³ Air	*992*		*90*	*86-118*			

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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.
C1	The reported concentration for this analyte is below the quantitation limit.
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
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Alana Lee	**California Site Cleanup Section 3**	**WorkOrder: 2011015**
Project Number: R21S04	**75 Hawthorne Street**	**Reported:** 11/24/20 14:04
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 F6-008-3ft-4d-R (2011015-14) has a water layer. Analysis cancelled for that sample. Alana Lee notified (see attached email). -- rjb 11/13/20

WORK ORDER

Printed: 11/12/2020 8:31:11AM

2011015

EPA Region 9 Laboratory

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

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:	20316A
Received By:	Ziyad Rajabi	Date Received:	11/11/20 12:08
Logged In By:	Tatyana Dadiomov	Date Logged In:	11/11/20 13:22

Analysis	Hold Time Expires	Comments
2011015-01 6Sixty-MH1-3ft-4d-R [Radiello 130] Sampled 11/06/20 16:43 (GMT-08:00) Pacific Time (US &		**I706T**
VOCs, Passive Samplers	05/05/21	check COC for requested analytes
2011015-02 6Sixty-MH1-3ft-4d-R-Dup [Radiello 130] Sampled 11/06/20 16:43 (GMT-08:00) Pacific Time (US &		**I707T**
VOCs, Passive Samplers	05/05/21	check COC for requested analytes
2011015-03 6Sixty-MH2-2ft-4d-R [Radiello 130] Sampled 11/06/20 16:50 (GMT-08:00) Pacific Time (US &		**I708T**
VOCs, Passive Samplers	05/05/21	check COC for requested analytes
2011015-04 6Sixty-MH3-2ft-4d-R [Radiello 130] Sampled 11/06/20 16:54 (GMT-08:00) Pacific Time (US &		**I709T**
VOCs, Passive Samplers	05/05/21	check COC for requested analytes
2011015-05 6Sixty-MH4-2ft-4d-R [Radiello 130] Sampled 11/06/20 17:15 (GMT-08:00) Pacific Time (US &		**I710T**
VOCs, Passive Samplers	05/05/21	check COC for requested analytes
2011015-06 6Sixty-MH5-2ft-4d [Radiello 130] Sampled 11/06/20 17:20 (GMT-08:00) Pacific Time (US &		**I711T**
VOCs, Passive Samplers	05/05/21	check COC for requested analytes

WORK ORDER

Printed: 11/12/2020 8:31:11AM

2011015

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

2011015-07 6Sixty-MH6-2ft-4d [Radiello 130] Sampled 11/06/20 17:26 **I712T**
(GMT-08:00) Pacific Time (US &

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

2011015-08 6Sixty-MH7-2ft-4d [Radiello 130] Sampled 11/06/20 17:30 **I713T**
(GMT-08:00) Pacific Time (US &

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

2011015-09 6Sixty-MH8-2ft-4d [Radiello 130] Sampled 11/06/20 17:40 **I714T**
(GMT-08:00) Pacific Time (US &

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

2011015-10 6Sixty-MH9-2ft-4d [Radiello 130] Sampled 11/06/20 17:44 **I715T**
(GMT-08:00) Pacific Time (US &

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

2011015-11 6Sixty-MH10-2ft-4d [Radiello 130] Sampled 11/06/20 17:47 **I716T**
(GMT-08:00) Pacific Time (US &

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

2011015-12 6Sixty-MH11-2ft-4d [Radiello 130] Sampled 11/06/20 17:51 **I717T**
(GMT-08:00) Pacific Time (US &

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

2011015-13 F6-010-3ft-4d-R [Radiello 130] Sampled 11/06/20 16:25 **Y881Q**
(GMT-08:00) Pacific Time (US &

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

2011015-14 F6-008-3ft-4d-R [Radiello 130] Sampled 11/06/20 15:58 **Y882Q**
(GMT-08:00) Pacific Time (US &

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

2011015-15 F6-006-3ft-4d-R [Radiello 130] Sampled 11/06/20 16:09 **Y883Q**
(GMT-08:00) Pacific Time (US &

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

Reviewed By Date

Bauer, Richard

From: Bauer, Richard
Sent: Friday, November 13, 2020 1:23 PM
To: Lee, Alana
Subject: Radiello sample F6-008-3ft-4d-R wet- analysis cancelled

Hello Alana:

The CS2 extract sample for F6-008-3ft-4d-R has a water layer. We have cancelled analysis for that sample.

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

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 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/m³ if available	
11/02/2020 11/06/2020	11:05 16:43	AIR	X		6Sixty-MH1-3ft-4d-R	I706T	1	68	68	10-400	
11/02/2020 11/06/2020	11:05 16:43	AIR	X		6Sixty-MH1-3ft-4d-R-Dup	I707T	1	68	68	10-400	
11/02/2020 11/06/2020	11:13 16:50	AIR	X		6Sixty-MH2-2ft-4d-R	I708T	1	68	68	600	pry bar
11/02/2020 11/06/2020	11:15 16:54	AIR	X		6Sixty-MH3-2ft-4d-R	I709T	1	68	68	300-500	
11/02/2020 11/06/2020	11:18 17:15	AIR	X		6Sixty-MH4-2ft-4d-R	I710T	1	68	68	150	
11/02/2020 11/06/2020	11:23 17:20	AIR	X		6Sixty-MH5-2ft-4d	I711T	1	68	68	<50	
11/02/2020 11/06/2020	11:30 17:26	AIR	X		6Sixty-MH6-2ft-4d	I712T	1	68	68	<50	
11/02/2020 11/06/2020	11:33 17:30	AIR	X		6Sixty-MH7-2ft-4d	I713T	1	68	68	<50	
11/02/2020 11/06/2020	11:38 17:40	AIR	X		6Sixty-MH8-2ft-4d	I714T	1	68	68	<50	
11/02/2020 11/06/2020	11:41 17:44	AIR	X		6Sixty-MH9-2ft-4d	I715T	1	68	68	<50	
11/02/2020 11/06/2020	11:43 17:47	AIR	X		6Sixty-MH10-2ft-4d	I716T	1	68	68	<50	
11/02/2020 11/06/2020	11:48 17:51	AIR	X		6Sixty-MH11-2ft-4d	I717T	1	68	68	160	

11/9/20

Relinquished by: *(Signature)* Date/Time 11/11/2020 1208

Received for Laboratory by: *(Signature)* Date/Time 11/11/20 12:08

Received by: *(Signature)* Date/Time

Relinquished by: *(Signature)* Date/Time

Temp 18°C

Seals Intact? (Y/N)

Conditions / Remarks

Table of Contents

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/m³	
11/02/2020 11/06/2020	10:25 16:25	AIR	X		F6-010-3ft-4d-R	Y881Q	1	68	68	100-1300	Pry bar
11/02/2020 11/06/2020	10:30 15:58	AIR	X		F6-008-3ft-4d-R	Y882Q	1	68	68	50-800	
11/02/2020 11/06/2020	10:36 16:09	AIR	X		F6-006-3ft-4d-R	Y883Q	1	68	68	100-1600	Wet on pick up

11/9/2020

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

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

Table of Contents

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 H2SO4

☐ 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	6Sixty-MH1-3ft-4d-R	11/6/2020	16:43	11/2/2020	11:05	6098	20.00	20.00	293.00	I706T
2	6Sixty-MH1-3ft-4d-R-Dup	11/6/2020	16:43	11/2/2020	11:05	6098	20.00	20.00	293.00	I707T
3	6Sixty-MH2-2ft-4d-R	11/6/2020	16:50	11/2/2020	11:13	6097	20.00	20.00	293.00	I708T
4	6Sixty-MH3-2ft-4d-R	11/6/2020	16:54	11/2/2020	11:15	6099	20.00	20.00	293.00	I709T
5	6Sixty-MH4-2ft-4d-R	11/6/2020	17:15	11/2/2020	11:18	6117	20.00	20.00	293.00	I710T
6	6Sixty-MH5-2ft-4d	11/6/2020	17:20	11/2/2020	11:23	6117	20.00	20.00	293.00	I711T
7	6Sixty-MH6-2ft-4d	11/6/2020	17:26	11/2/2020	11:30	6116	20.00	20.00	293.00	I712T
8	6Sixty-MH7-2ft-4d	11/6/2020	17:30	11/2/2020	11:33	6117	20.00	20.00	293.00	I713T
9	6Sixty-MH8-2ft-4d	11/6/2020	17:40	11/2/2020	11:38	6122	20.00	20.00	293.00	I714T
10	6Sixty-MH9-2ft-4d	11/6/2020	17:44	11/2/2020	11:41	6123	20.00	20.00	293.00	I715T
11	6Sixty-MH10-2ft-4d	11/6/2020	17:47	11/2/2020	11:43	6124	20.00	20.00	293.00	I716T
12	6Sixty-MH11-2ft-4d	11/6/2020	17:51	11/2/2020	11:48	6123	20.00	20.00	293.00	I717T
13	F6-010-3ft-4d-R	11/6/2020	16:25	11/2/2020	10:25	6120	20.00	20.00	293.00	Y881Q
14	F6-008-3ft-4d-R	11/6/2020	15:58	11/2/2020	10:30	6088	20.00	20.00	293.00	Y882Q
15	F6-006-3ft-4d-R	11/6/2020	16:09	11/2/2020	10:36	6093	20.00	20.00	293.00	Y883Q

Table of Contents

BATCH

B20K043

Batch Date: 11/12/2020

Batch Matrix: Radiello 130

Batch Analyses:

VOCs, Passive Samplers

PREPARATION BENCH SHEET

B20K043

EPA Region 9 Laboratory

Project: R21S04

Printed: 11/17/2020 12:22:47PM

Matrix: Radiello 13 **Analysis: VOCs, Passive Sample** **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
2011015-01 A	6Sixty-MH1-3ft-4d -R	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011015-01RE1 A	6Sixty-MH1-3ft-4d -R	11/12/20 07:10	1	2				50		TD	Added 11/16/2020 by TD
2011015-02 A	6Sixty-MH1-3ft-4d -R-Dup	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011015-02RE1 A	6Sixty-MH1-3ft-4d -R-Dup	11/12/20 07:10	1	2				50		TD	Added 11/16/2020 by TD
2011015-03 A	6Sixty-MH2-2ft-4d -R	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011015-03RE1 A	6Sixty-MH2-2ft-4d -R	11/12/20 07:10	1	2				50		TD	Added 11/16/2020 by TD
2011015-04 A	6Sixty-MH3-2ft-4d -R	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011015-04RE1 A	6Sixty-MH3-2ft-4d -R	11/12/20 07:10	1	2				50		TD	Added 11/16/2020 by TD
2011015-05 A	6Sixty-MH4-2ft-4d -R	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011015-05RE1 A	6Sixty-MH4-2ft-4d -R	11/12/20 07:10	1	2				50		TD	Added 11/16/2020 by TD
2011015-06 A	6Sixty-MH5-2ft-4d	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011015-06RE1 A	6Sixty-MH5-2ft-4d	11/12/20 07:10	1	2				50		TD	Added 11/16/2020 by TD
2011015-07 A	6Sixty-MH6-2ft-4d	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011015-08 A	6Sixty-MH7-2ft-4d	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011015-09 A	6Sixty-MH8-2ft-4d	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011015-10 A	6Sixty-MH9-2ft-4d	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011015-11 A	6Sixty-MH10-2ft-4 d	11/12/20 07:10	1	2				50		TD	check COC for requested analytes

Table of Contents

PREPARATION BENCH SHEET

B20K043

EPA Region 9 Laboratory

Project: R21S04

Printed: 11/17/2020 12:22:47PM

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
2011015-12 A	6Sixty-MH11-2ft-4d	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011015-12RE1 A	6Sixty-MH11-2ft-4d	11/12/20 07:10	1	2				50		TD	Added 11/16/2020 by TD
2011015-13 A	F6-010-3ft-4d-R	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011015-13RE1 A	F6-010-3ft-4d-R	11/12/20 07:10	1	2				50		TD	Added 11/16/2020 by TD
2011015-14 A	F6-008-3ft-4d-R	11/12/20 07:10	1	1.3				50		TD	WET
2011015-15 A	F6-006-3ft-4d-R	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011015-15RE1 A	F6-006-3ft-4d-R	11/12/20 07:10	1	2				50		TD	Added 11/16/2020 by TD
2011016-01 A	6Sixty-A1-SC-1ft-7d	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011016-01RE1 A	6Sixty-A1-SC-1ft-7d	11/12/20 07:10	1	2				50		TD	Added 11/16/2020 by TD
2011016-02 A	6Sixty-A2-SC-1ft-7d-R	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011016-03 A	6Sixty-A3-SC-1ft-7d	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011016-03RE1 A	6Sixty-A3-SC-1ft-7d	11/12/20 07:10	1	2				50		TD	Added 11/16/2020 by TD
2011016-04 A	6Sixty-A3-SC-1ft-7d-Dup	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011016-04RE1 A	6Sixty-A3-SC-1ft-7d-Dup	11/12/20 07:10	1	2				50		TD	Added 11/16/2020 by TD
2011016-05 A	6Sixty-A4-SC-1ft-7d	11/12/20 07:10	1	2				50		TD	check COC for requested analytes
2011016-05RE1 A	6Sixty-A4-SC-1ft-7d	11/12/20 07:10	1	2				50		TD	Added 11/16/2020 by TD
B20K043-BLK1	Blank	11/12/20 07:10	1	2				50		TD	

Page 20 of 1271 2011015 DATA_PKG (Rev0).PDF 11/24/20 14:10:41

Table of Contents

PREPARATION BENCH SHEET

B20K043

EPA Region 9 Laboratory

Project: R21S04

Printed: 11/17/2020 12:22:47PM

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
B20K043-BS1	LCS	11/12/20 07:10	1	2		1937062	5	50		TD	
B20K043-BSD1	LCS Dup	11/12/20 07:10	1	2		1937062	5	50		TD	
B20K043-MRL1	MRL Check	11/12/20 07:10	1	2		2020011	5	50		TD	

Batch Comments

Reagents

Reagent #	Description
2026065	passive air Radiello tubes
2040027	Carbon disulfide

Page 21 of 1271 2011015 DATA_PKG (Rev0).PDF 11/24/20 14:10:41

Table of Contents

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

Page 23 of 1271 20110 15 DATA_PKG (Rev0).PDF 11/24/20 14:10:41

Table of Contents

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 24 of 1271 20110015 DATA_PKG (Rev0).PDF 11/24/20 14:10:41

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

Page 29 of 1271 20110015 DATA_PKG (Rev0).PDF 11/24/20 14:10:41

Table of Contents

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

Page 30 of 1271 20111015 DATA_PKG (Rev0).PDF 11/24/20 14:10:41

Table of Contents

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

673233

File	Sample	Surrogate Recovery %	Internal Standard Responses
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**

Table of Contents

SEQUENCE DATA

S20H039

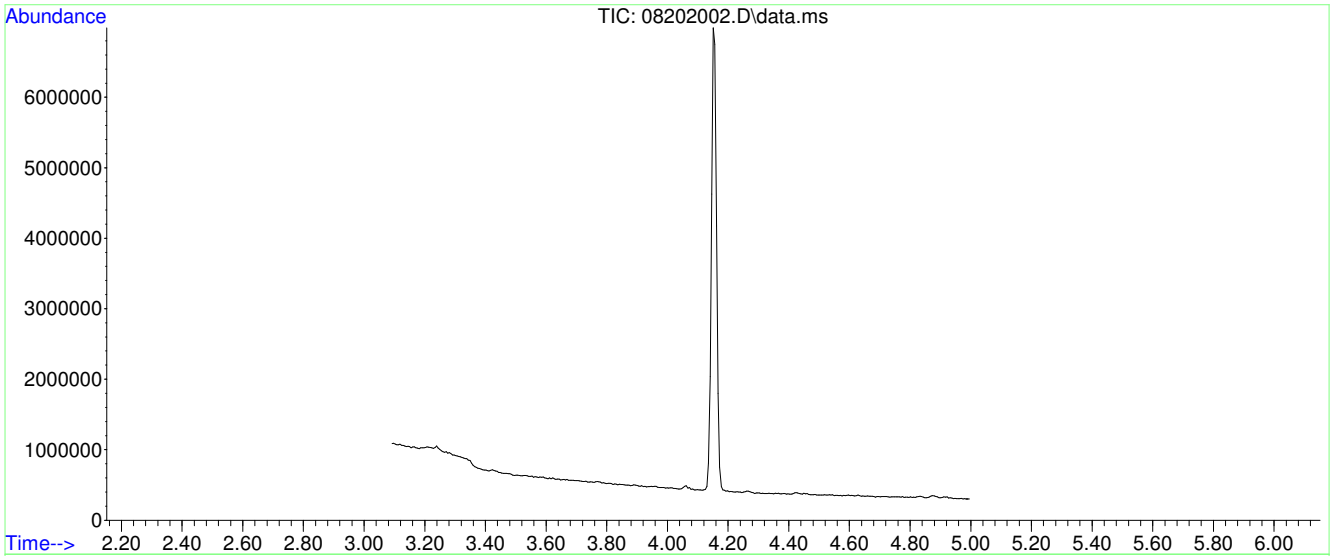
S20H039-TUN1

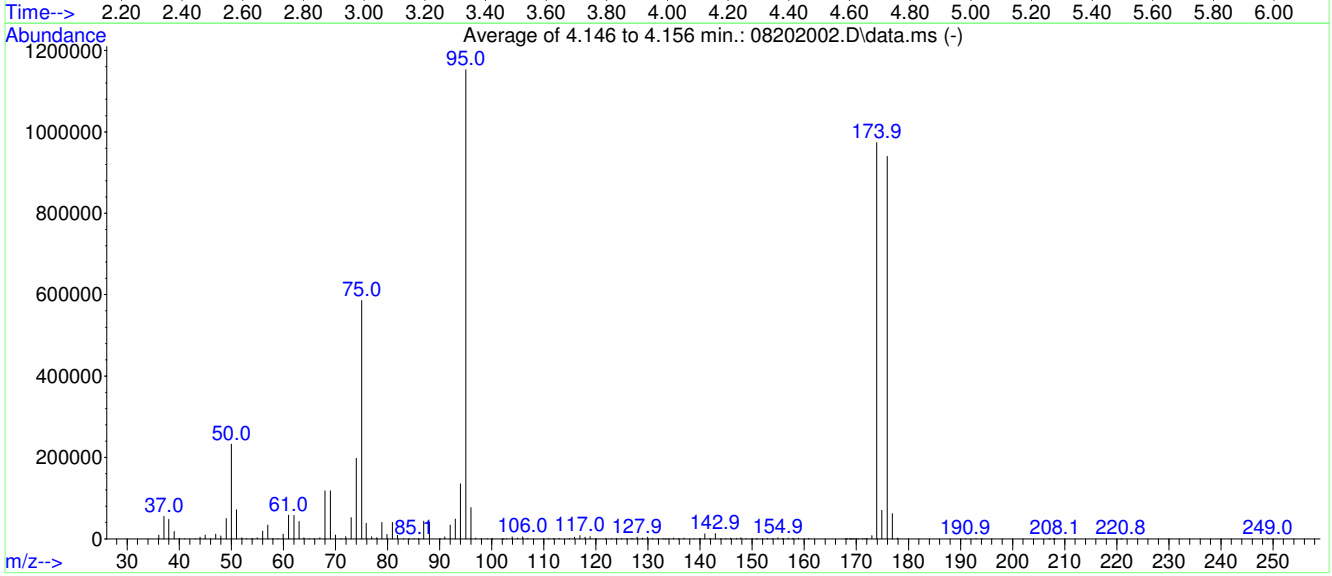
Table of Contents

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

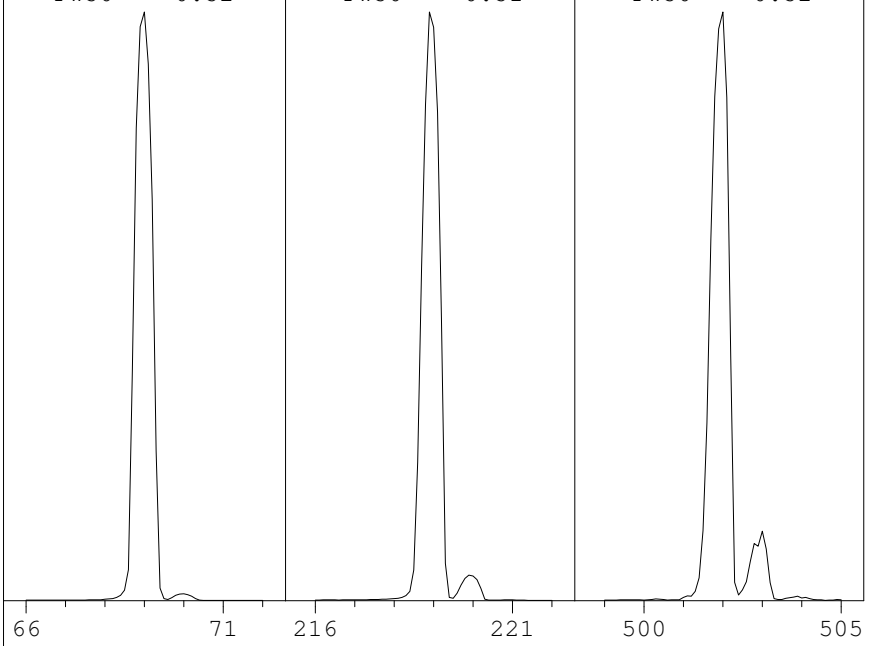
Average of 4.146 to 4.156 min.: 08202002.D\data.ms
S20H039-TUN1
Modified:subtracted

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

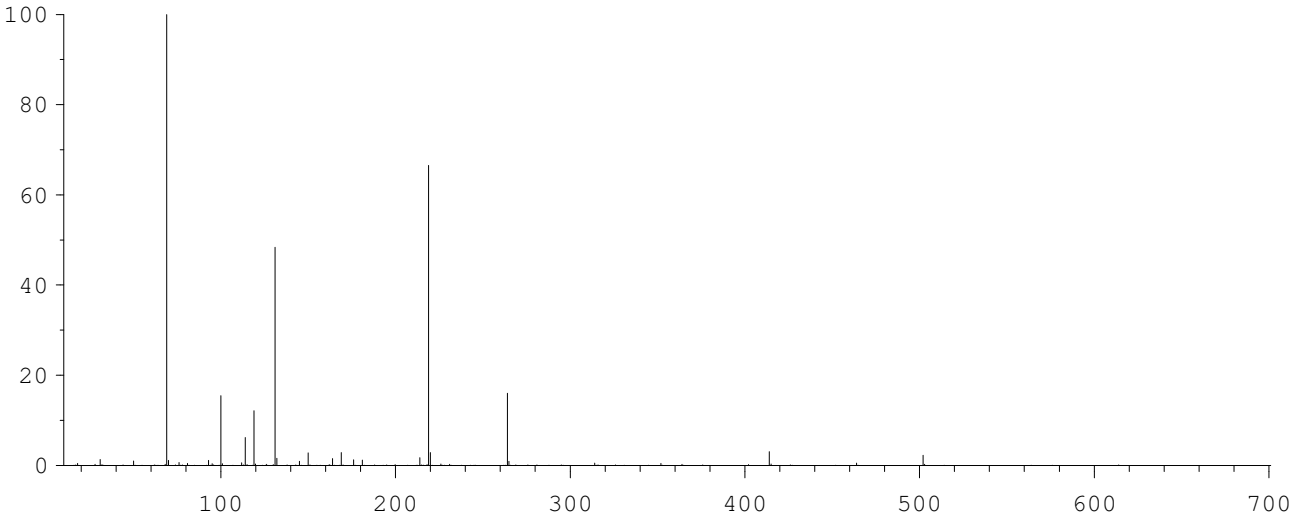


Ion Pol	Pos	MassGain	-1191
		MassOffs	-38
Emission	34.6	AmuGain	978
EIEnrgy	69.9	AmuOffs	127.94
Filament	1	Wid219	-0.003
		DC Pol	Pos
Repeller	29.79		
IonFcus	69.3	HEDEnab	On
EntLens	0.0	EMVolts	1329
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

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

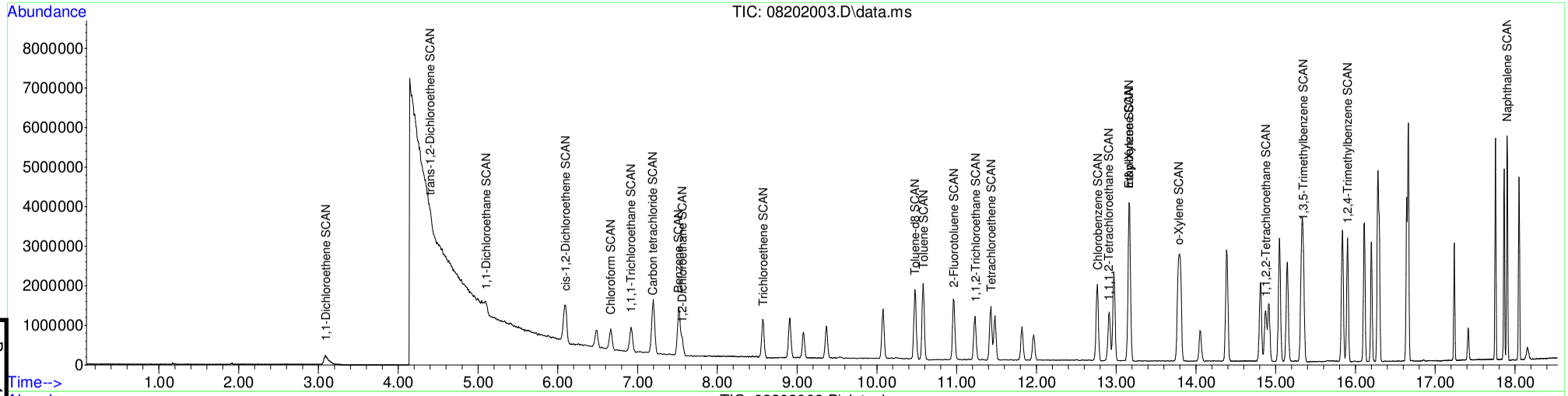
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	648237	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	2550057	20095.11 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 401.90%#		
Target Compounds					Qvalue
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



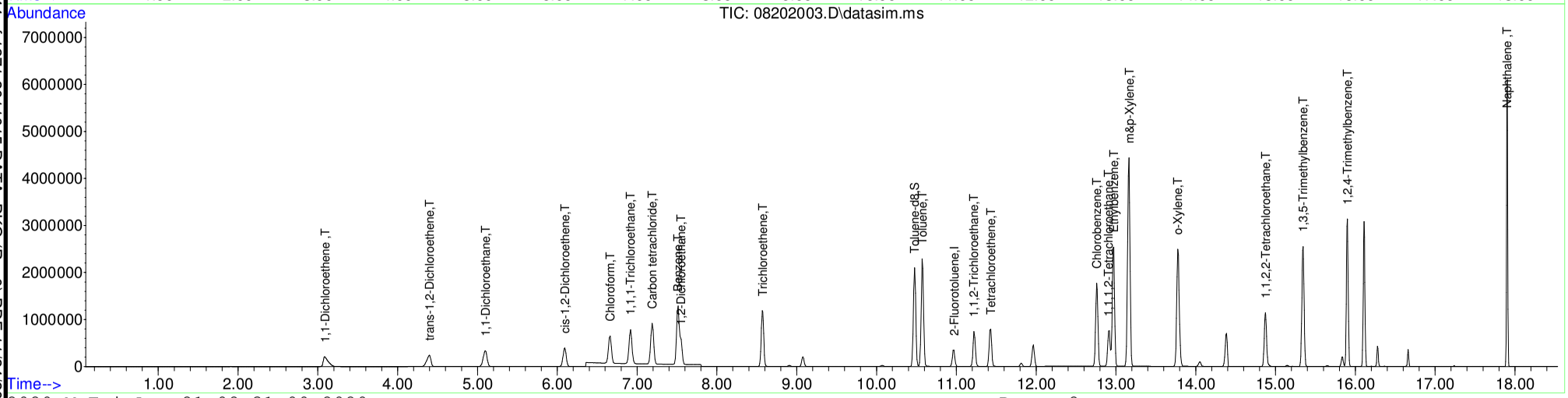


Table of Contents

S20H039-CAL2

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

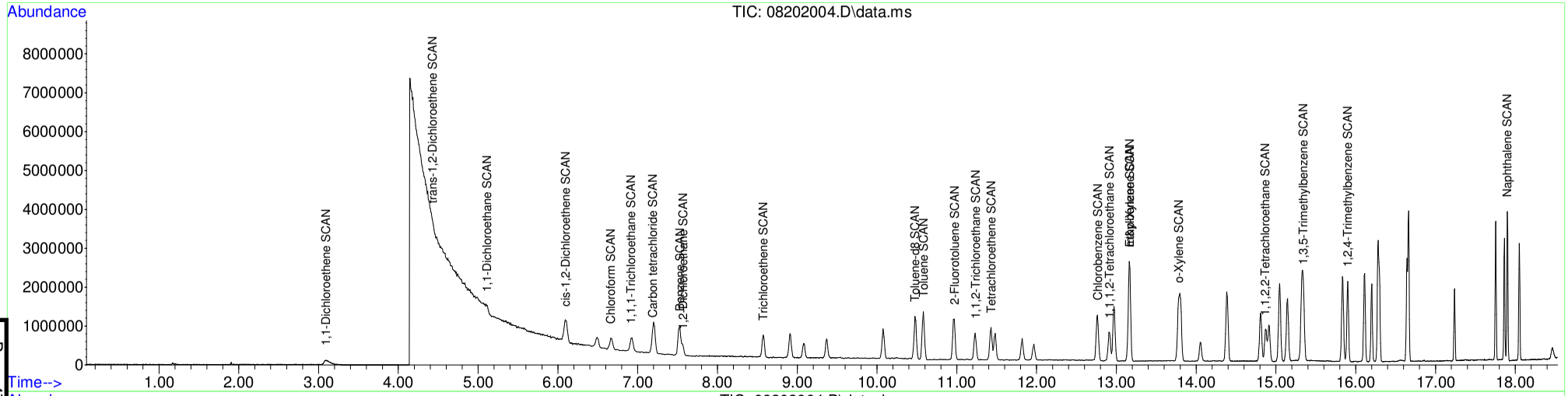
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	658265	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	1598935	12408.08 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 248.16%#		
Target Compounds					Qvalue
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



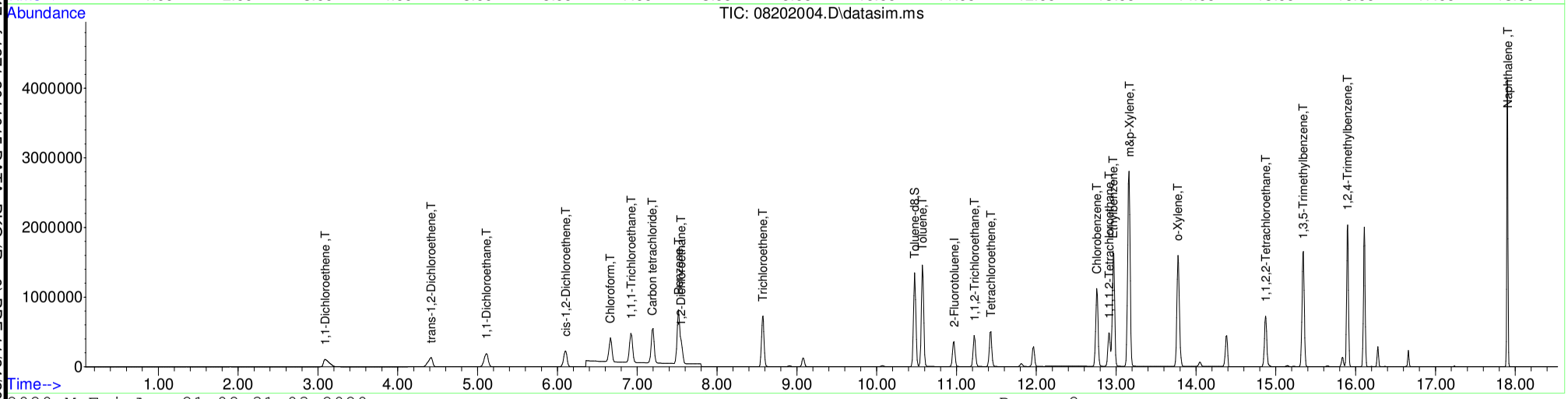


Table of Contents

S20H039-CAL3

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

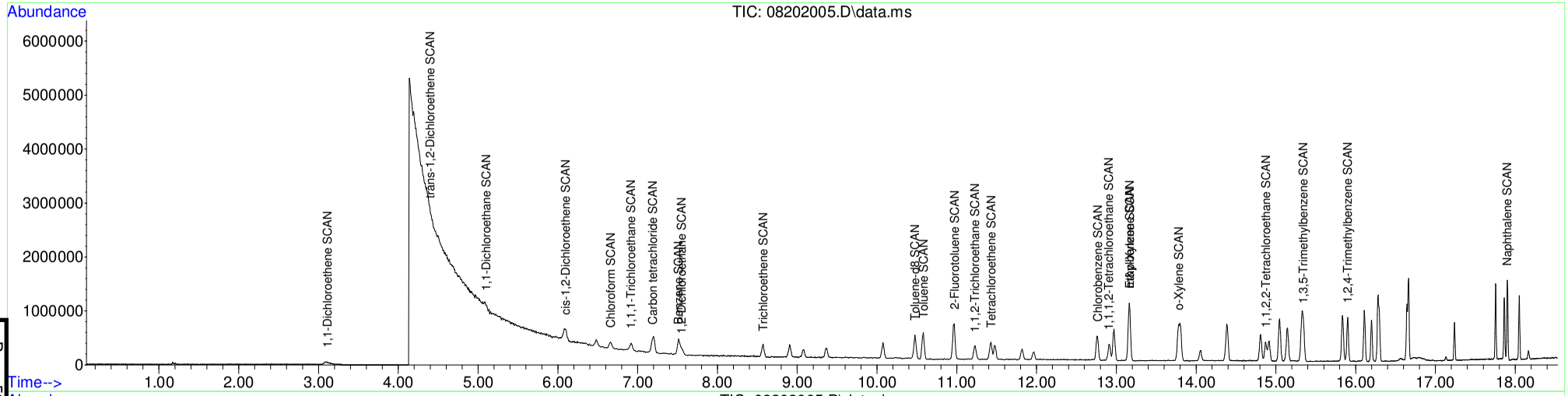
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	673233	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	629076	4773.23	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 95.46%			
Target Compounds						Qvalue
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



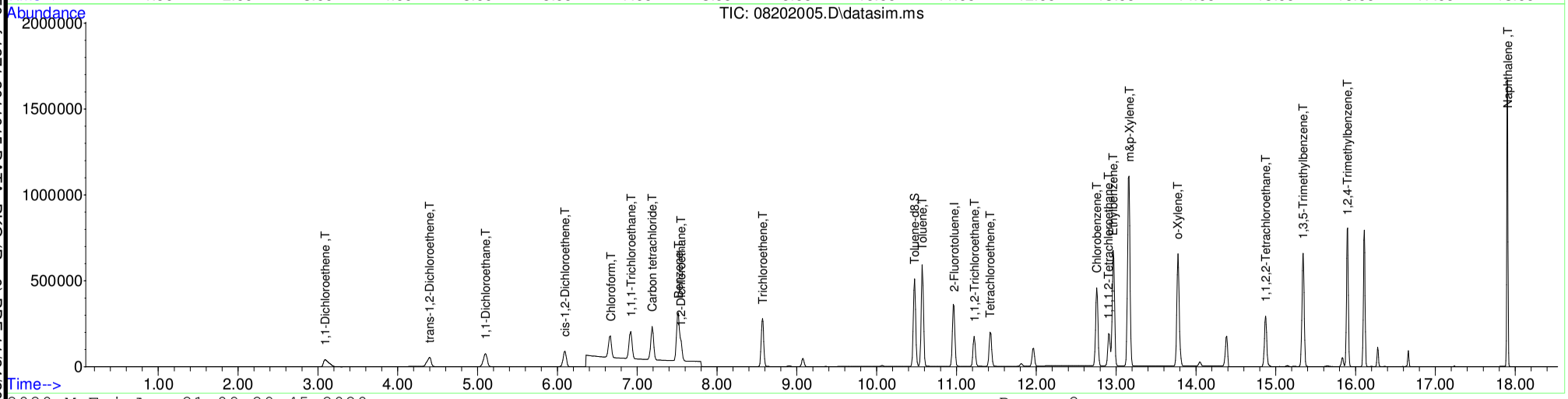
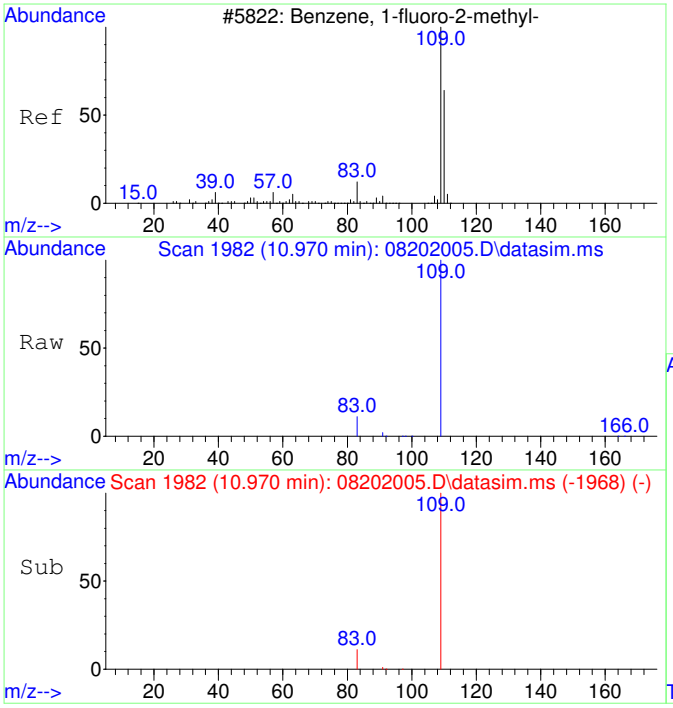


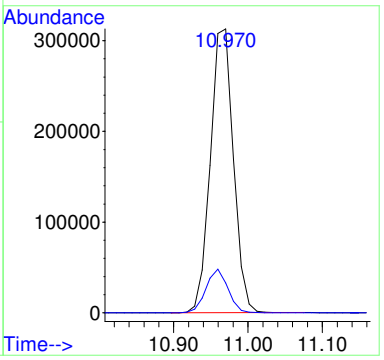
Table of Contents

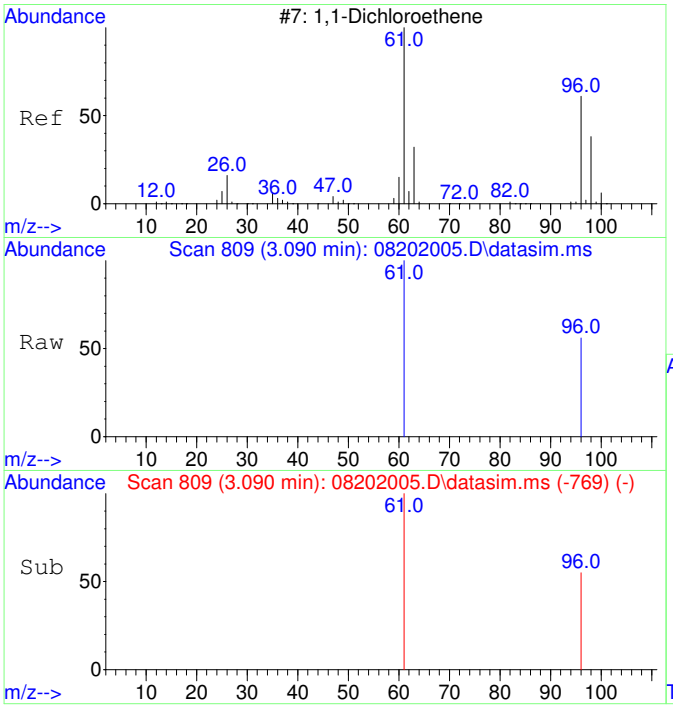


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:109 Resp: 673233

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	42.3

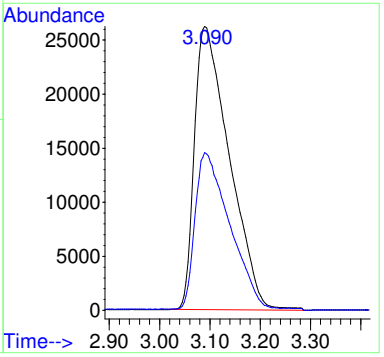


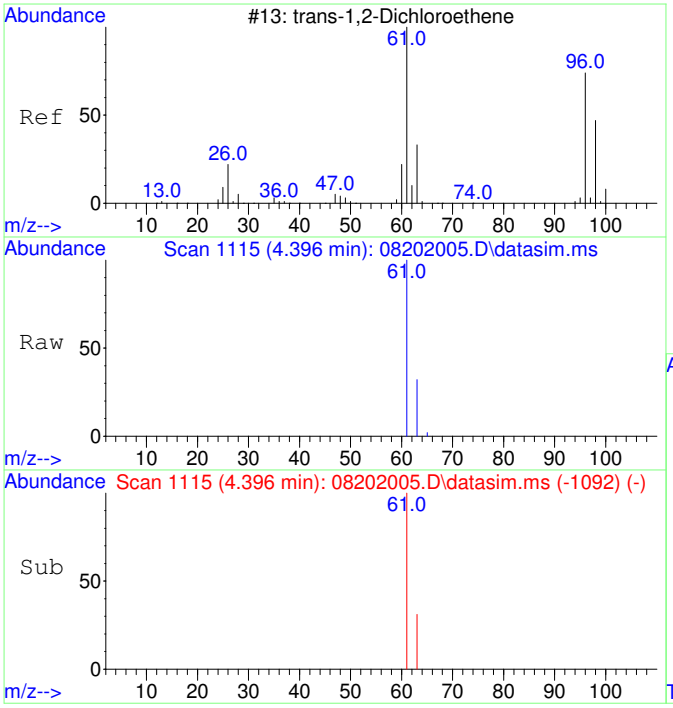


#2
1,1-Dichloroethene
Concen: 4282.69 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 61 Resp: 126761

Ion	Ratio	Lower	Upper
61	100		
96	54.2	37.2	97.2

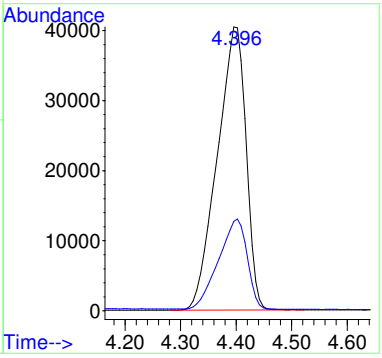


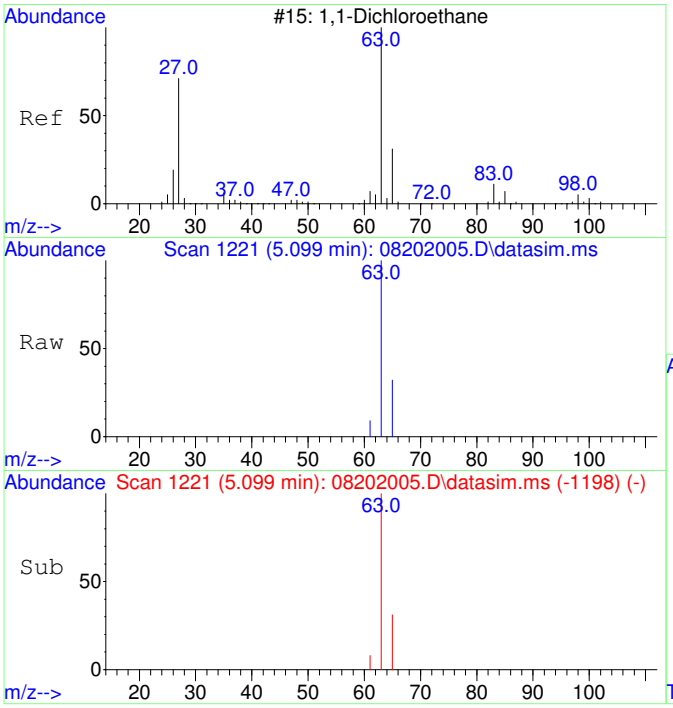


#3
trans-1,2-Dichloroethene
Concen: 4680.82 ug/L
RT: 4.396 min Scan# 1115
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 61 Resp: 145387

Ion	Ratio	Lower	Upper
61	100		
63	31.6	2.4	62.4

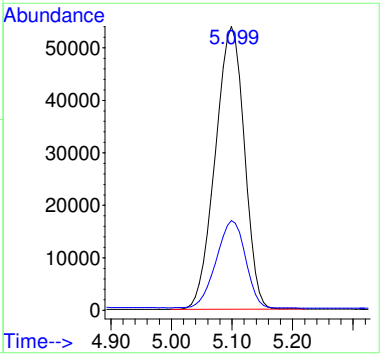


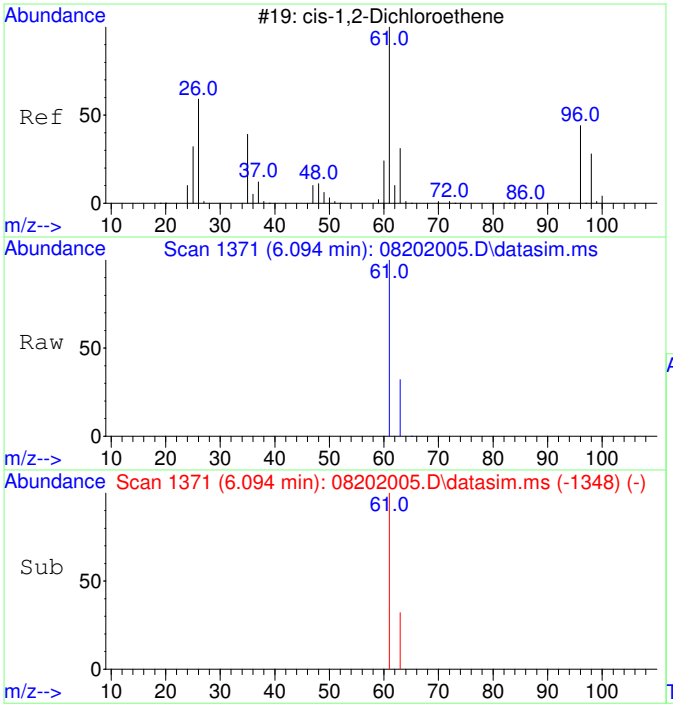


#4
1,1-Dichloroethane
Concen: 4656.26 ug/L
RT: 5.099 min Scan# 1221
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 63 Resp: 180029

Ion	Ratio	Lower	Upper
63	100		
65	30.9	1.8	61.8

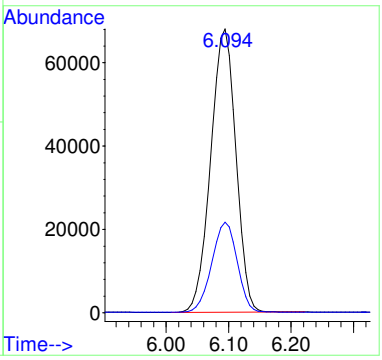


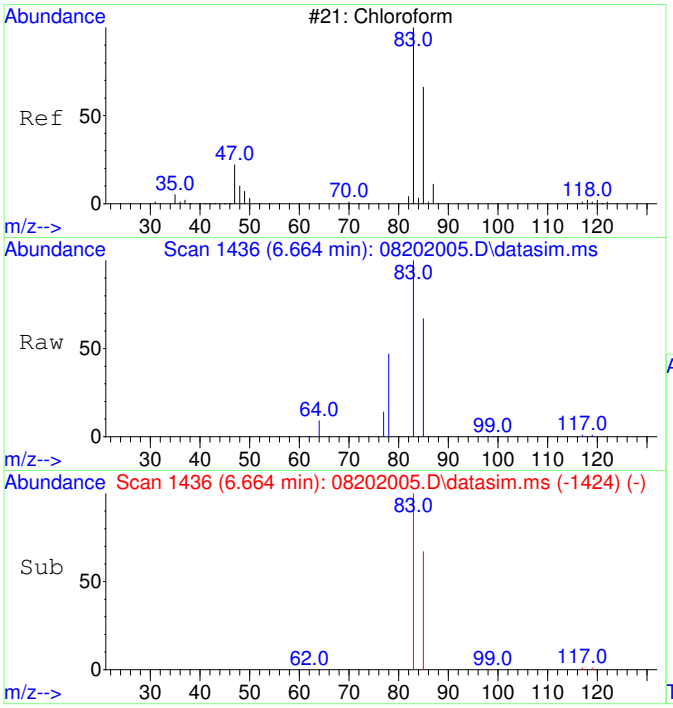


#5
cis-1,2-Dichloroethene
Concen: 4669.00 ug/L
RT: 6.094 min Scan# 1371
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 61 Resp: 190553

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

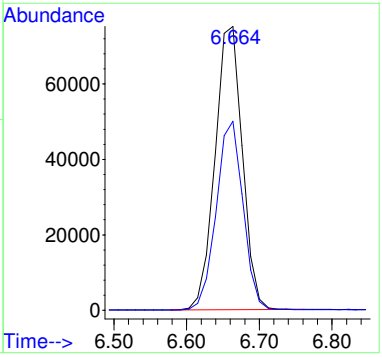


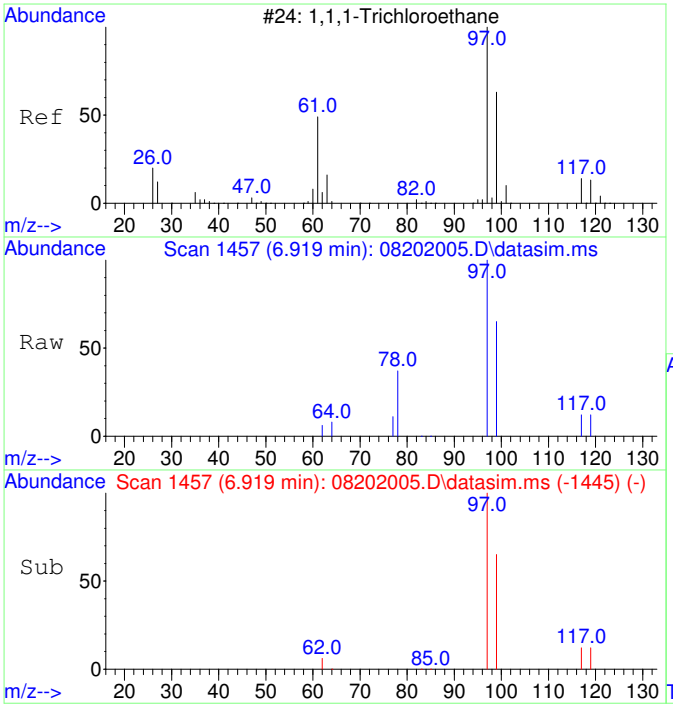


#6
Chloroform
Concen: 4702.98 ug/L
RT: 6.664 min Scan# 1436
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 83 Resp: 196458

Ion	Ratio	Lower	Upper
83	100		
85	65.0	35.1	95.1

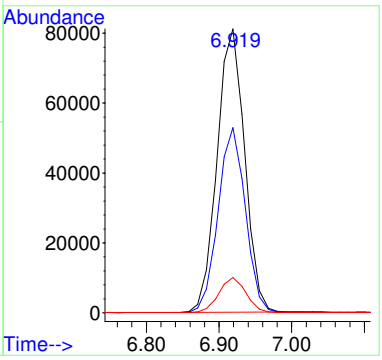


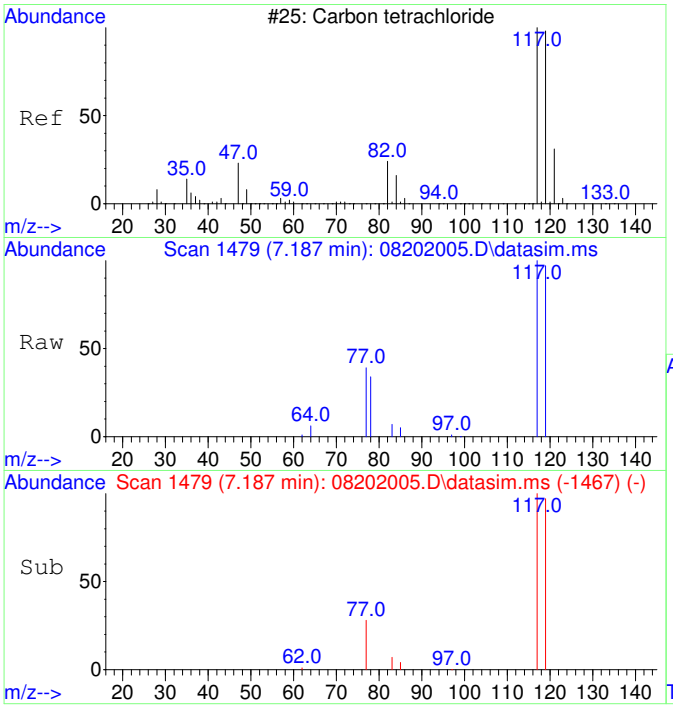


#7
1,1,1-Trichloroethane
Concen: 4717.26 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

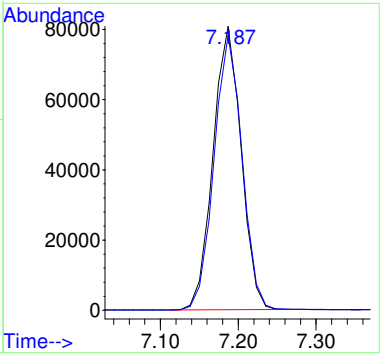


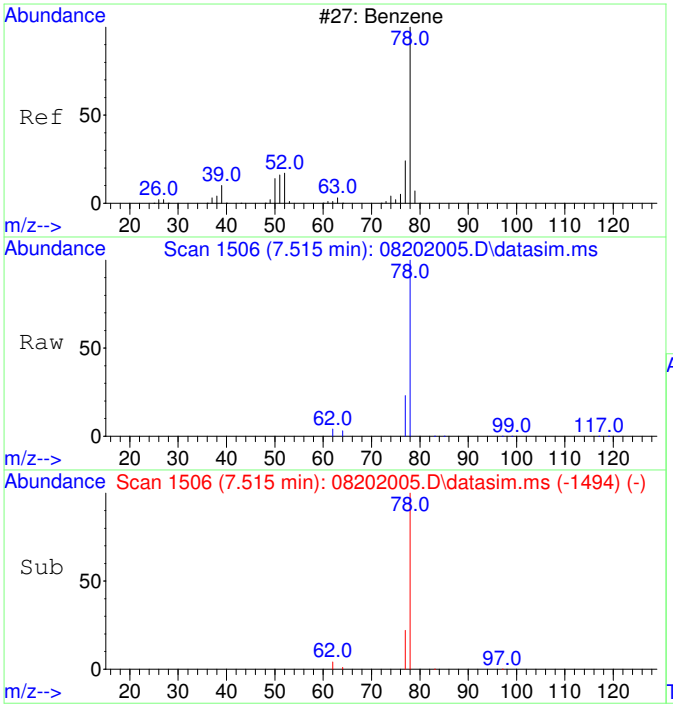


#8
Carbon tetrachloride
Concen: 4746.70 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:117 Resp: 202678

Ion	Ratio	Lower	Upper
117	100		
119	96.0	66.4	126.4

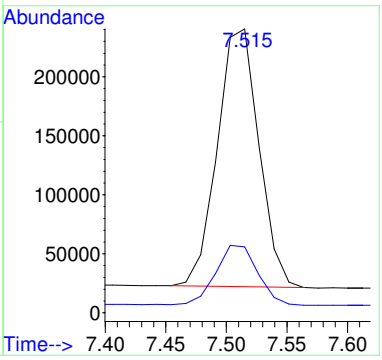


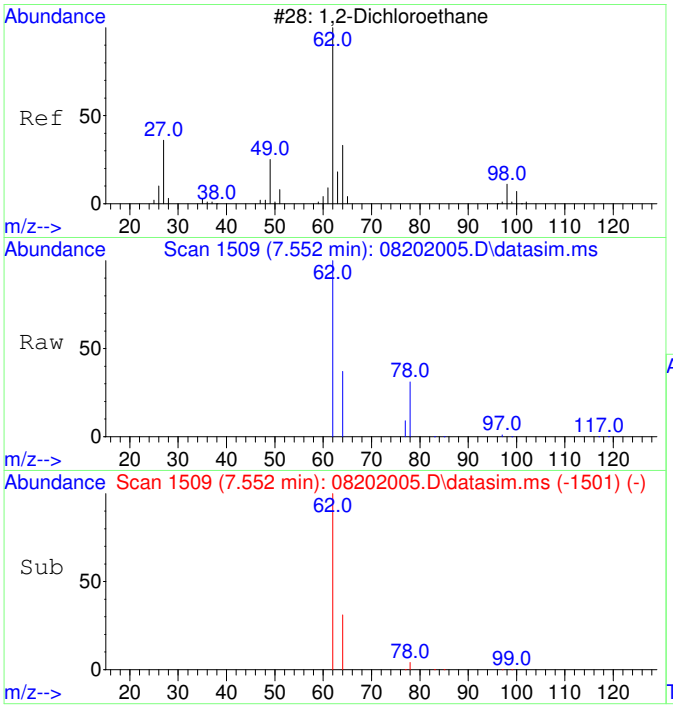


#9
Benzene
Concen: 4573.72 ug/L
RT: 7.515 min Scan# 1506
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 78 Resp: 523170

Ion	Ratio	Lower	Upper
78	100		
77	23.9	0.0	53.2

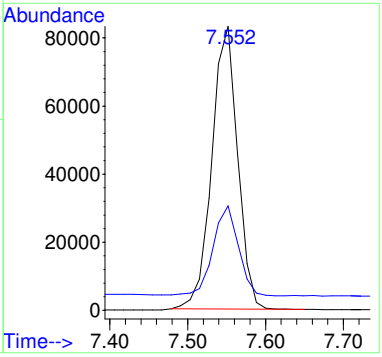


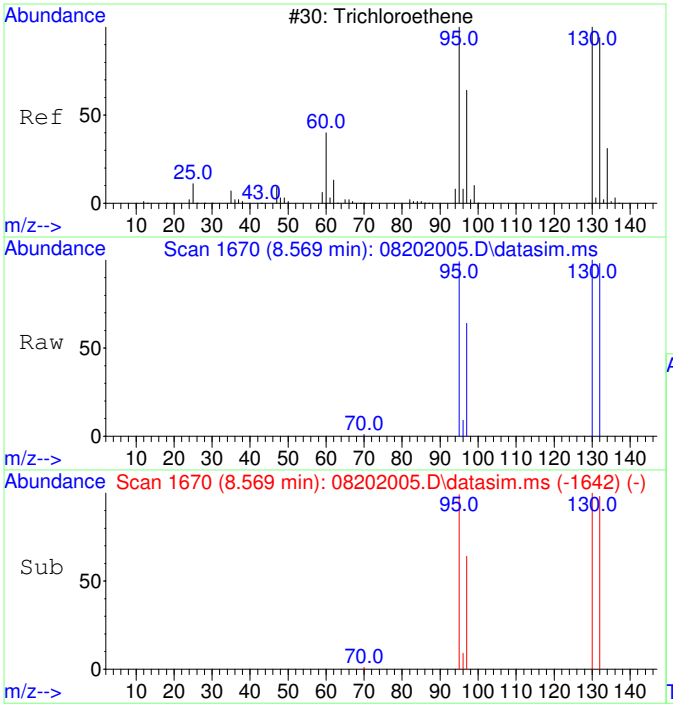


#10
1,2-Dichloroethane
Concen: 4681.08 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 62 Resp: 191144

Ion	Ratio	Lower	Upper
62	100		
64	31.3	2.3	62.3

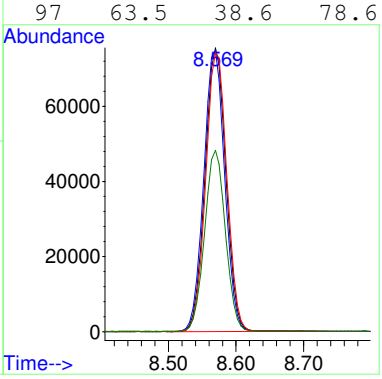


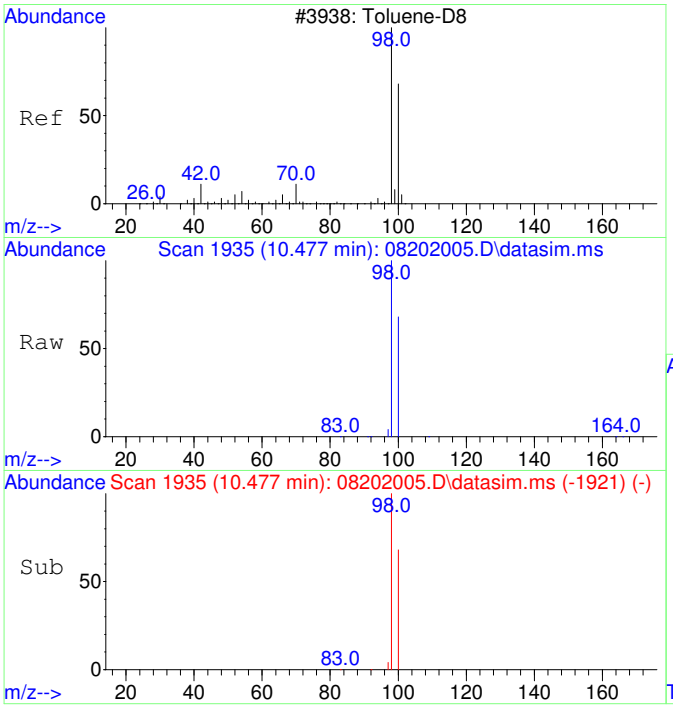


#11
Trichloroethene
Concen: 4696.35 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

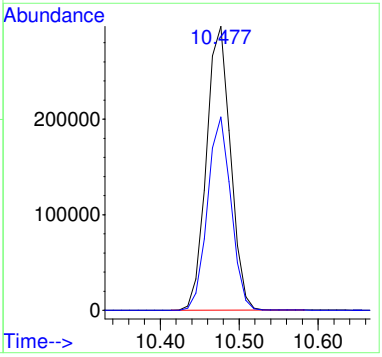


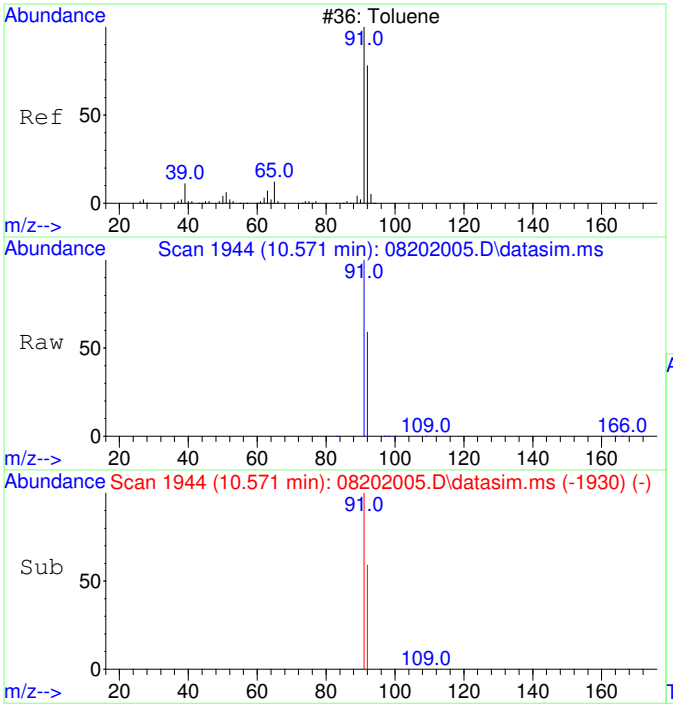


#12
Toluene-d8
Concen: 4773.23 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 98 Resp: 629076

Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1

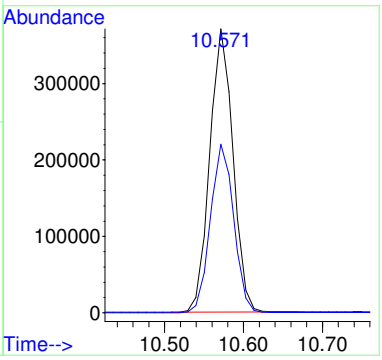


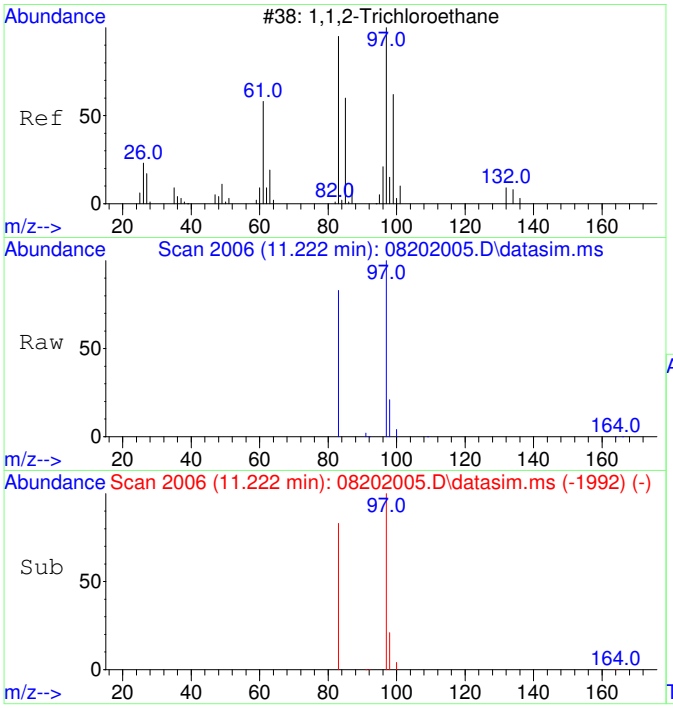


#13
Toluene
Concen: 4497.26 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 91 Resp: 755646

Ion	Ratio	Lower	Upper
91	100		
92	59.7	29.9	89.9

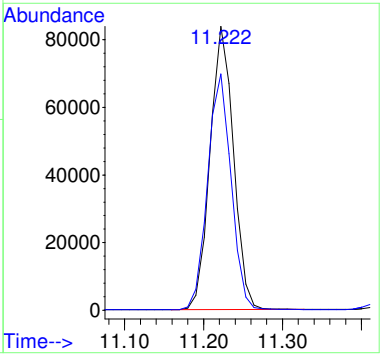


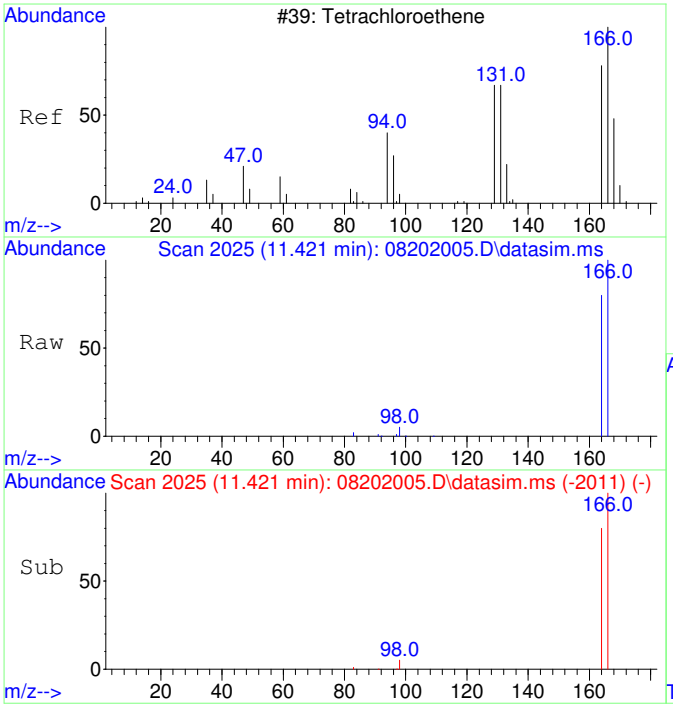


#14
1,1,2-Trichloroethane
Concen: 4706.83 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 97 Resp: 172328

Ion	Ratio	Lower	Upper
97	100		
83	83.4	51.2	111.2

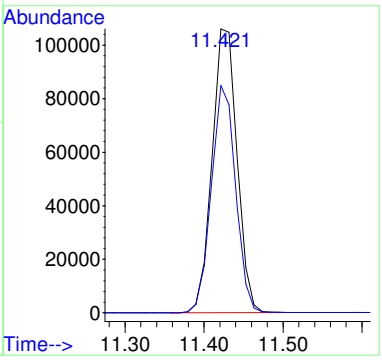


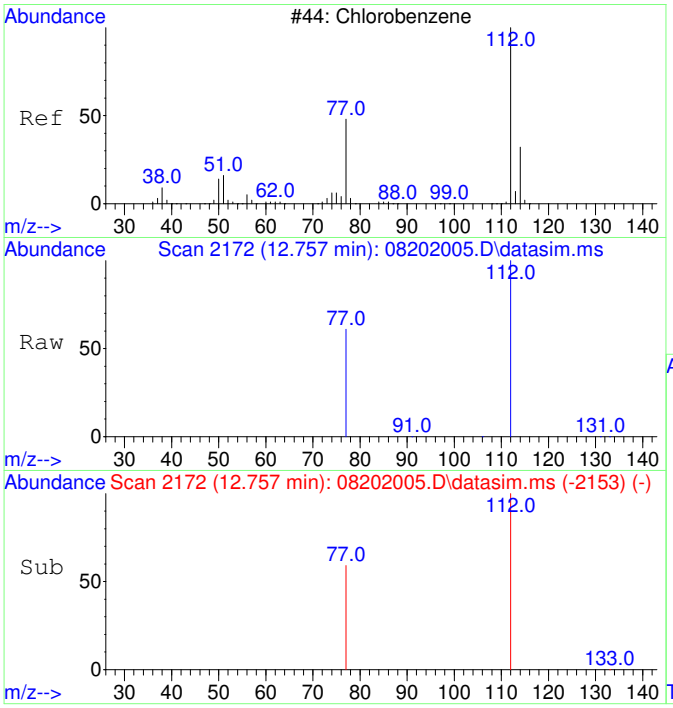


#15
Tetrachloroethene
Concen: 4787.68 ug/L
RT: 11.421 min Scan# 2025
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:166 Resp: 232804

Ion	Ratio	Lower	Upper
166	100		
164	77.7	47.8	107.8

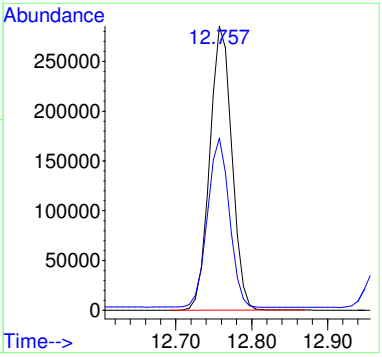


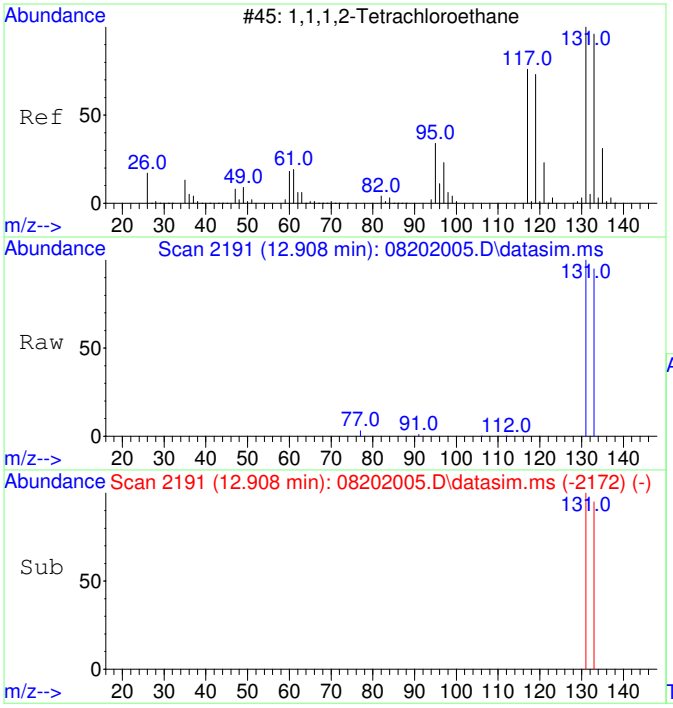


#16
Chlorobenzene
Concen: 4800.33 ug/L
RT: 12.757 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:112 Resp: 577532

Ion	Ratio	Lower	Upper
112	100		
77	58.8	23.6	83.6

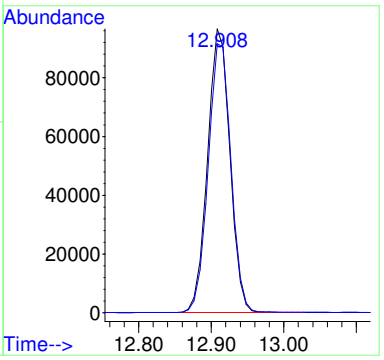


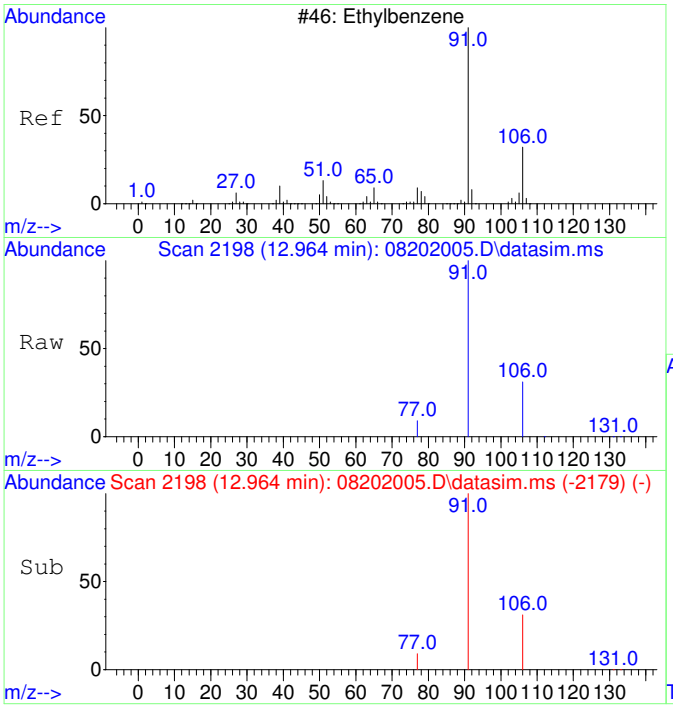


#17
1,1,1,2-Tetrachloroethane
Concen: 4804.79 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:131 Resp: 207134

Ion	Ratio	Lower	Upper
131	100		
133	96.4	66.3	126.3

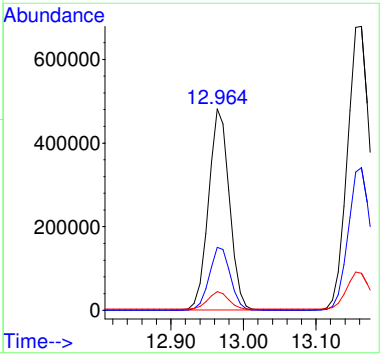


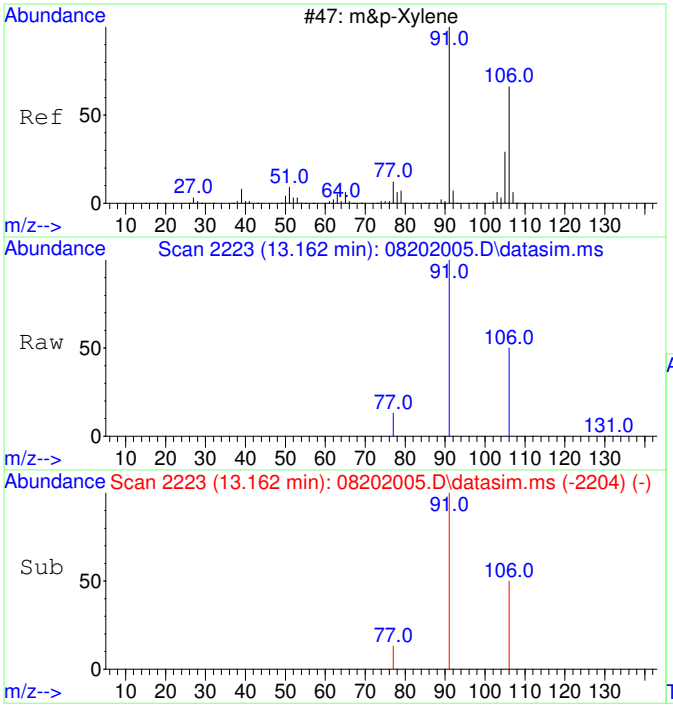


#18
Ethylbenzene
Concen: 4683.98 ug/L
RT: 12.964 min Scan# 2198
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

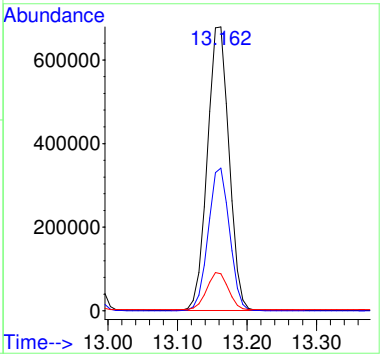


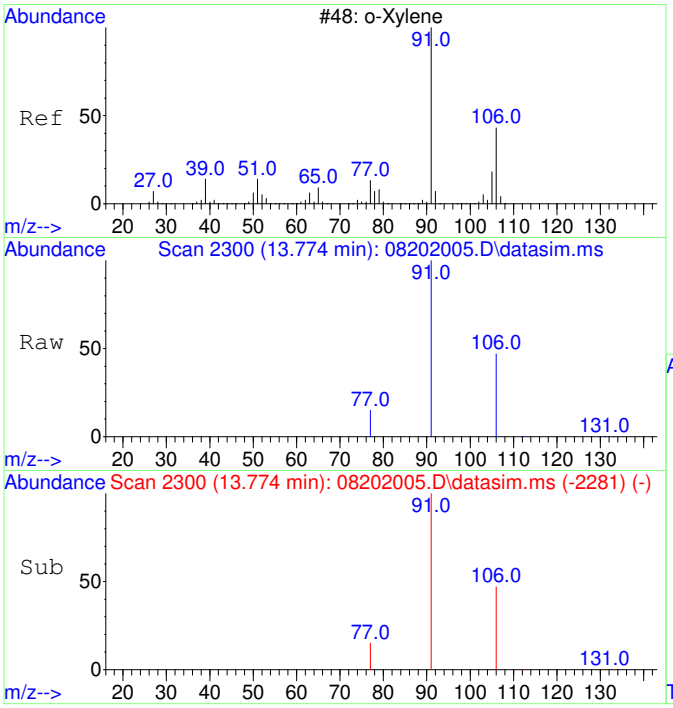


#19
m&p-Xylene
Concen: 9186.69 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

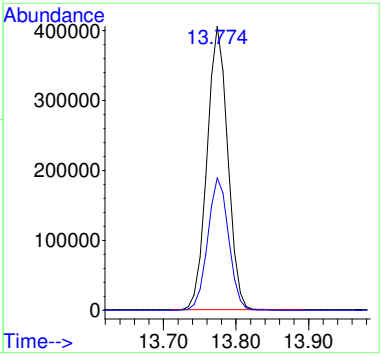


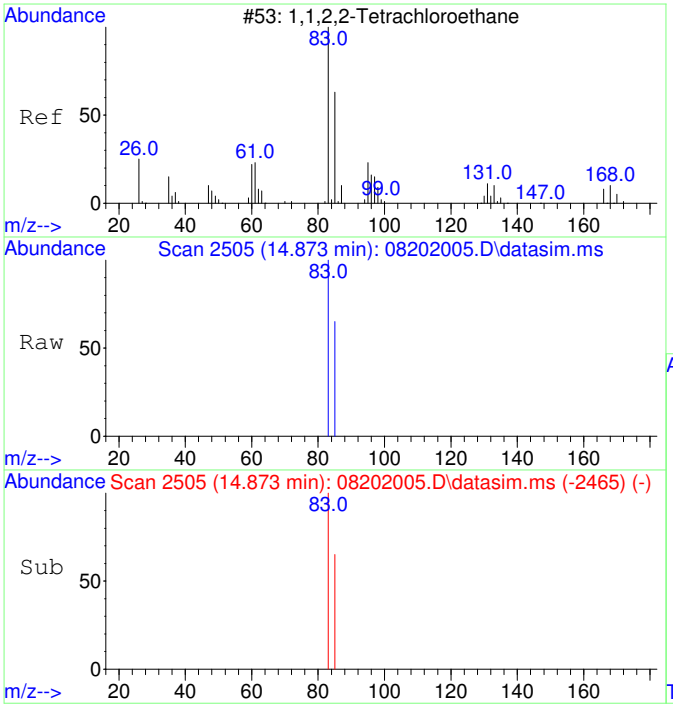


#20
o-Xylene
Concen: 4712.38 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 91 Resp: 804751

Ion	Ratio	Lower	Upper
91	100		
106	47.0	19.2	79.2

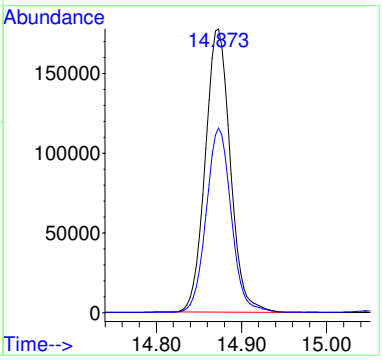


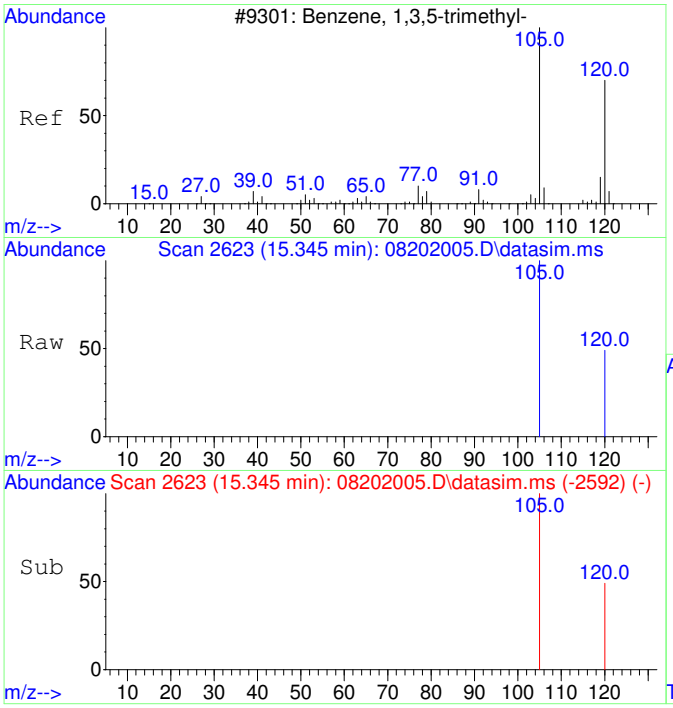


#21
1,1,2,2-Tetrachloroethane
Concen: 4781.00 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 83 Resp: 361853

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.8	94.8

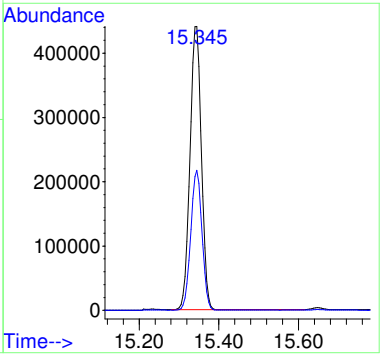


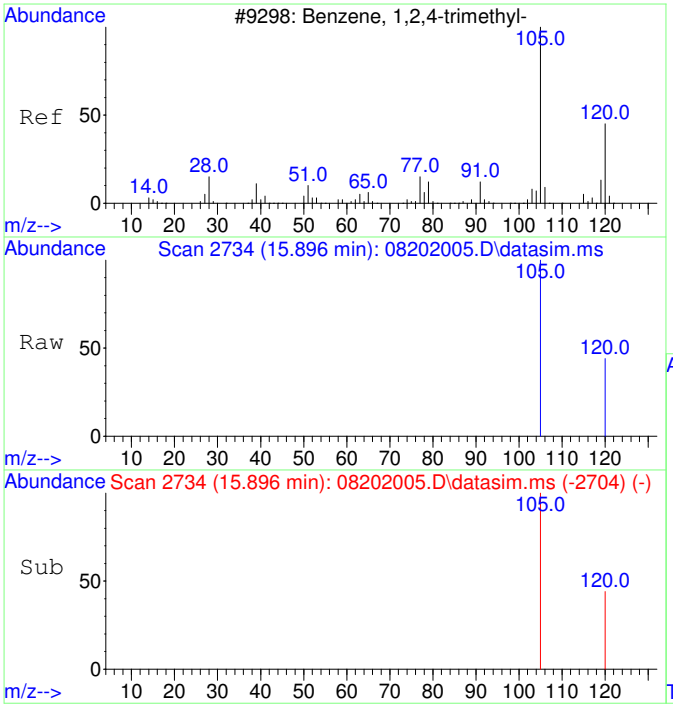


#22
1,3,5-Trimethylbenzene
Concen: 4814.24 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:105 Resp: 875077

Ion	Ratio	Lower	Upper
105	100		
120	48.6	21.1	81.1

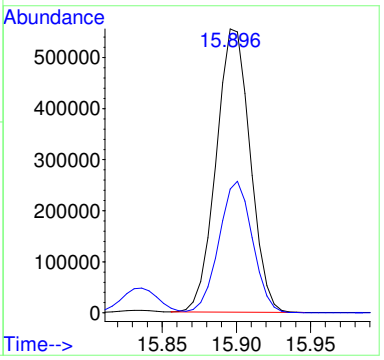


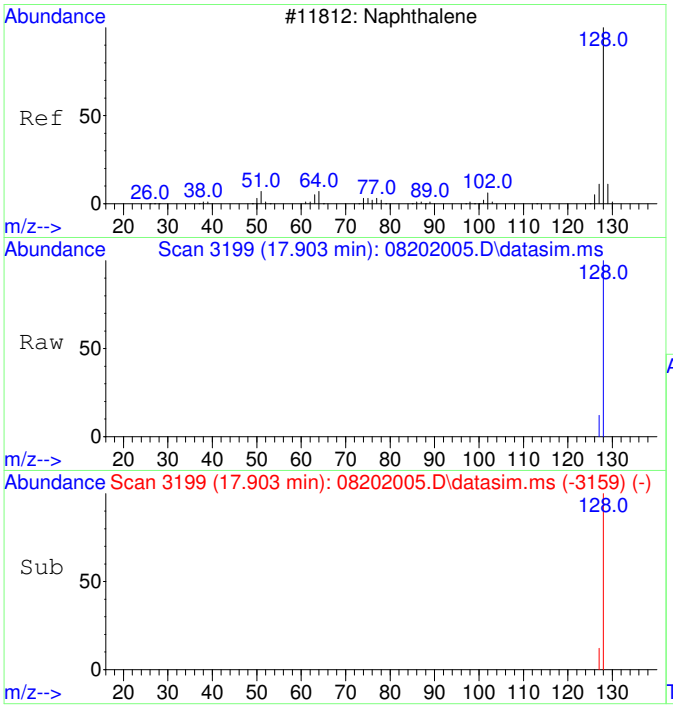


#23
1,2,4-Trimethylbenzene
Concen: 4689.02 ug/L
RT: 15.896 min Scan# 2734
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:105 Resp: 885300

Ion	Ratio	Lower	Upper
105	100		
120	44.9	17.2	77.2

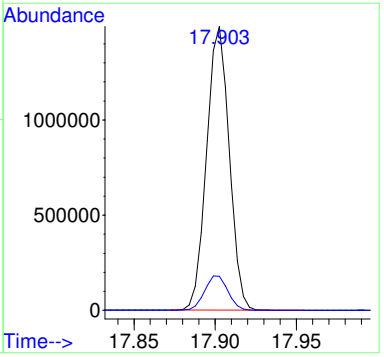


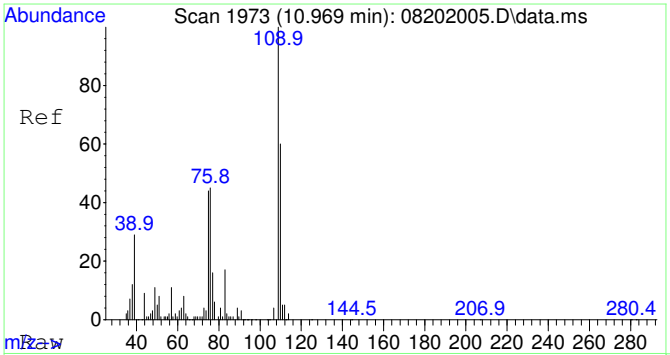


#24
Naphthalene
Concen: 4849.29 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:128 Resp: 1447043

Ion	Ratio	Lower	Upper
128	100		
127	12.4	0.0	42.5

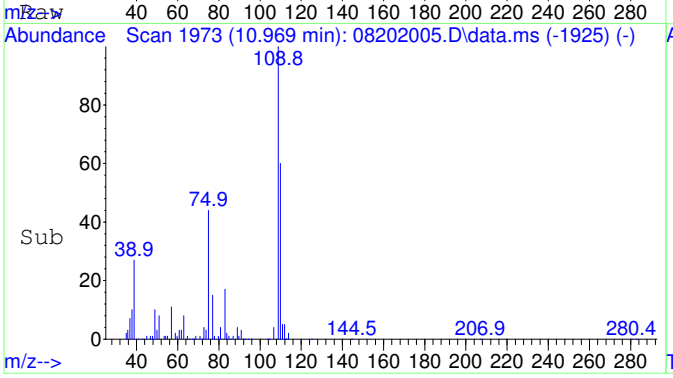


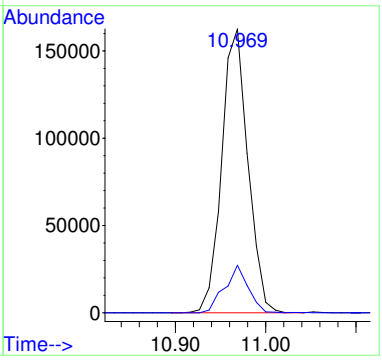


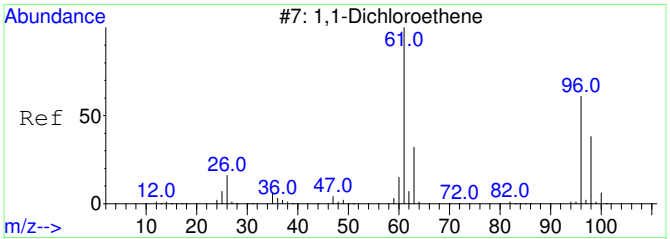
#25
2-Fluorotoluene SCAN
Concen: 5000.00 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion:109 Resp: 328139

Ion	Ratio	Lower	Upper
109	100		
83	15.1	0.0	43.8



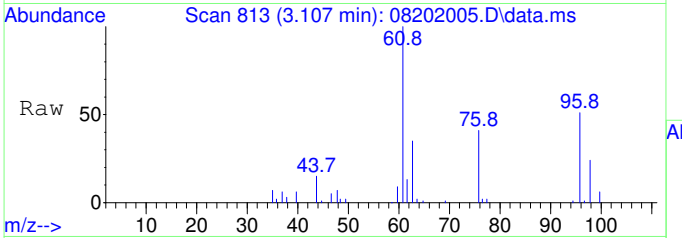


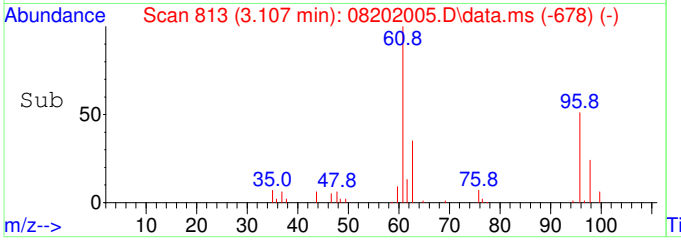


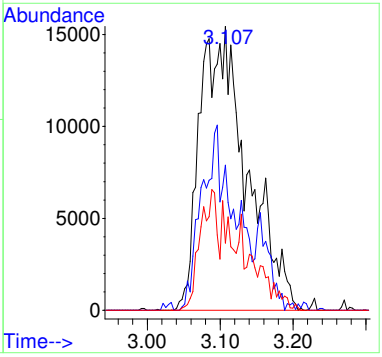
#26
1,1-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 3.107 min Scan# 813
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

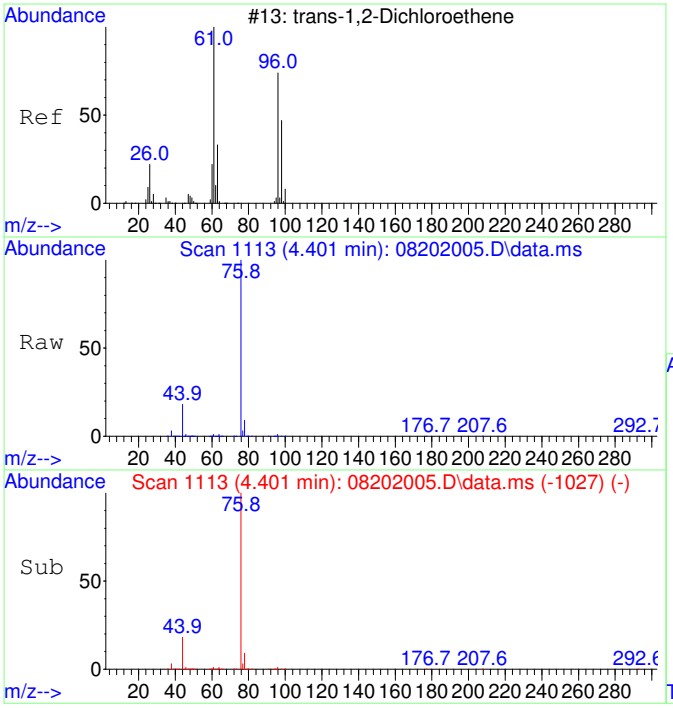
Tgt Ion: 61 Resp: 69687

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





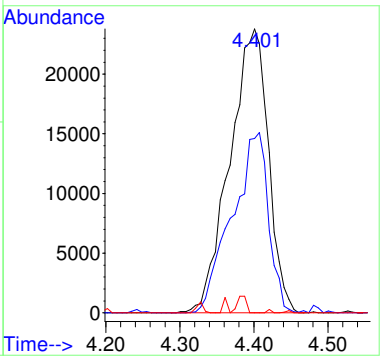


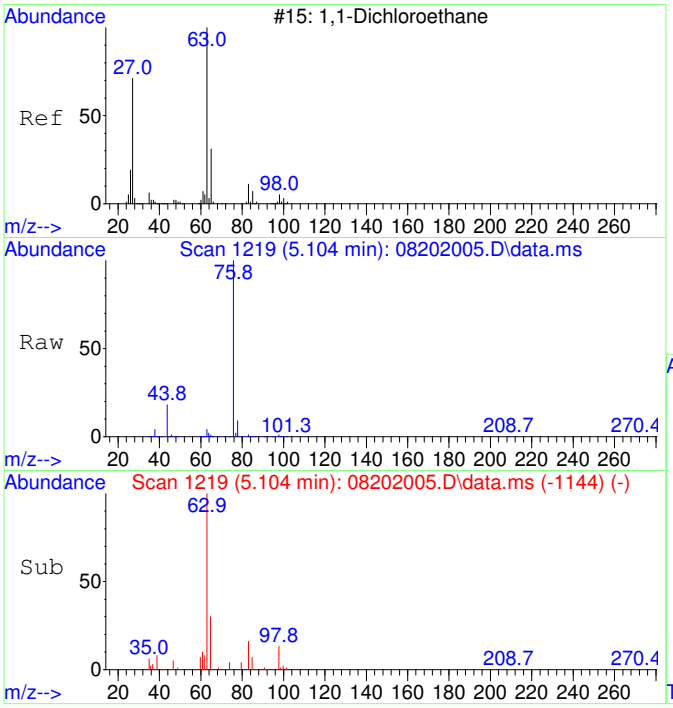


#27
trans-1,2-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 4.401 min Scan# 1113
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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#

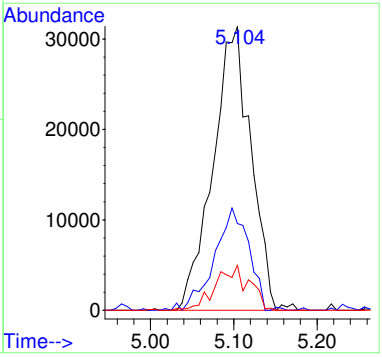


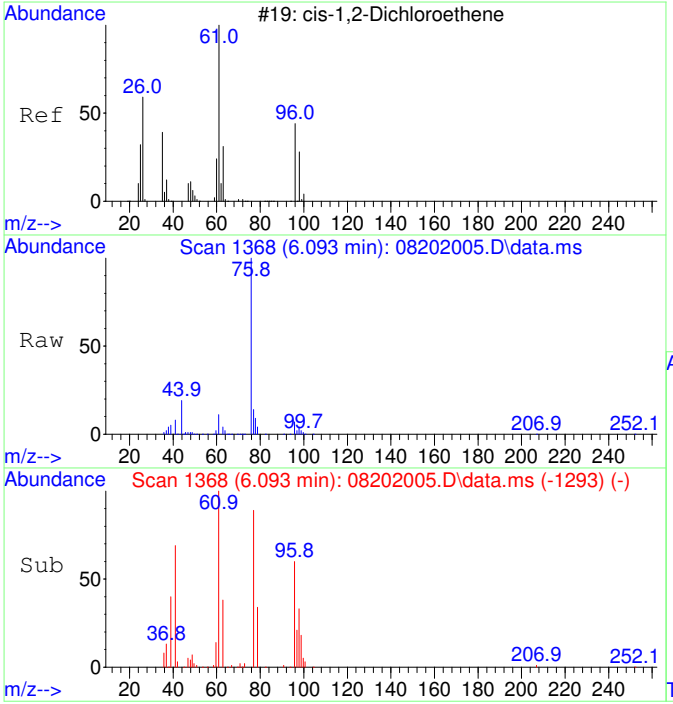


#28
1,1-Dichloroethane SCAN
Concen: 5000.00 ug/L
RT: 5.104 min Scan# 1219
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

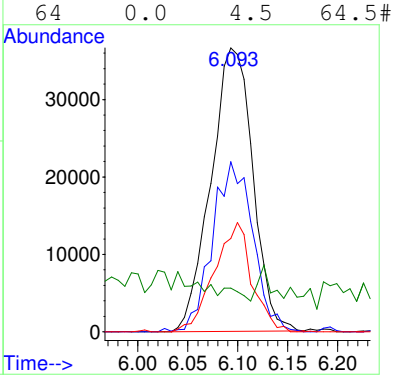


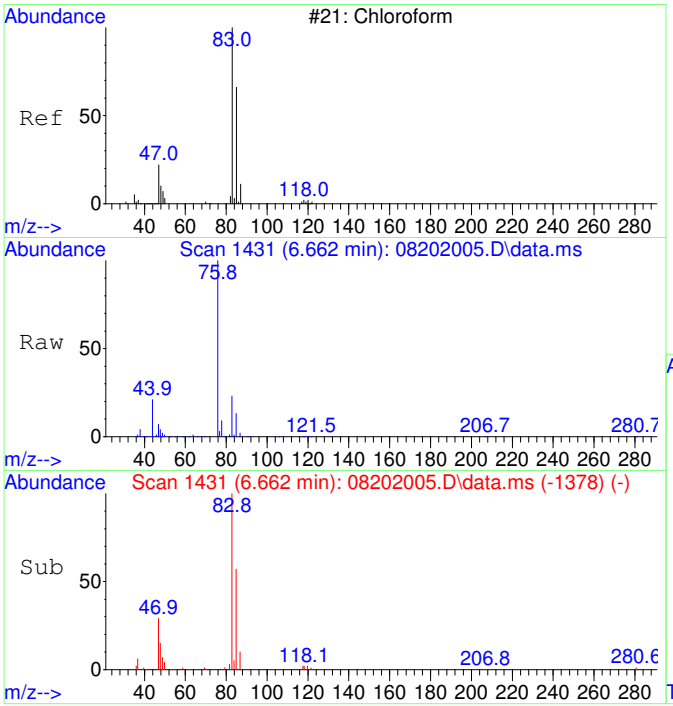


#29
cis-1,2-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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#

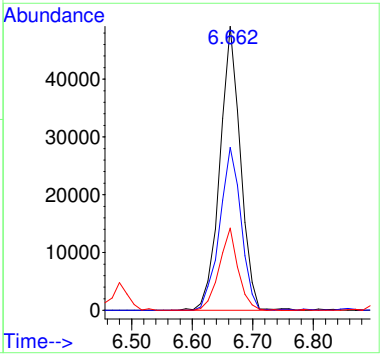


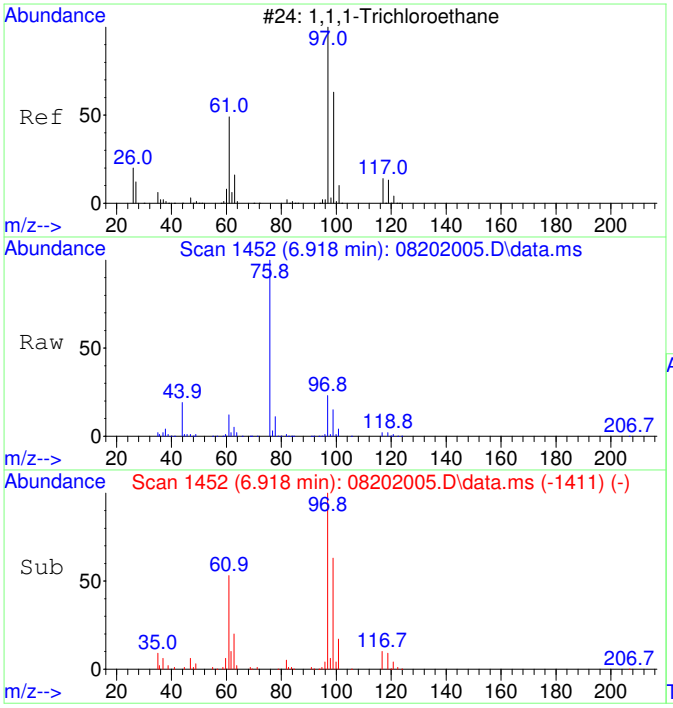


#30
Chloroform SCAN
Concen: 5000.00 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

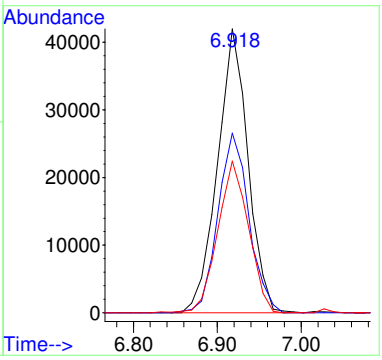


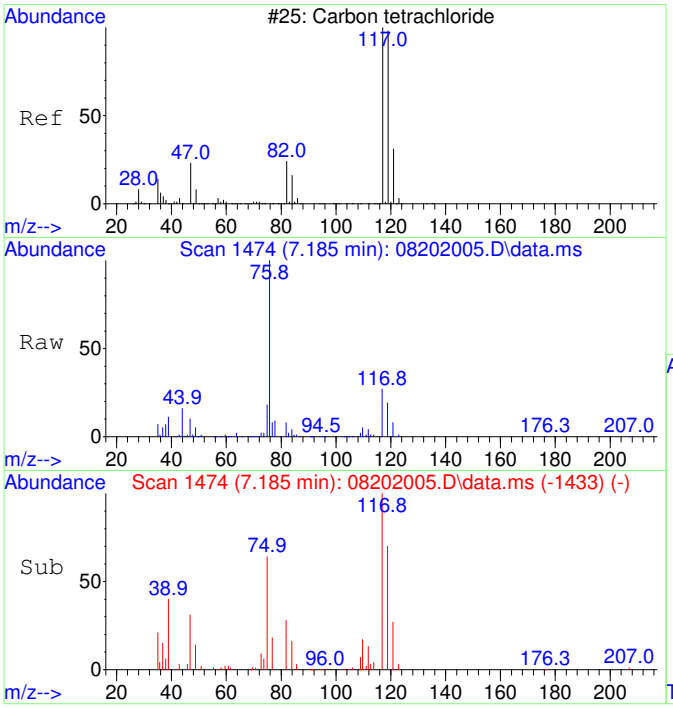


#31
1,1,1-Trichloroethane SCAN
Concen: 5000.00 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

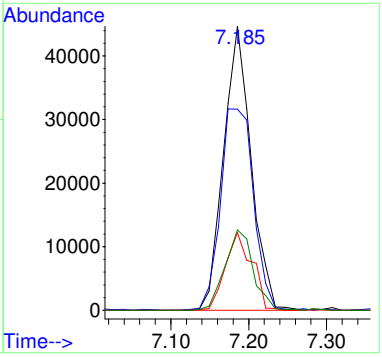


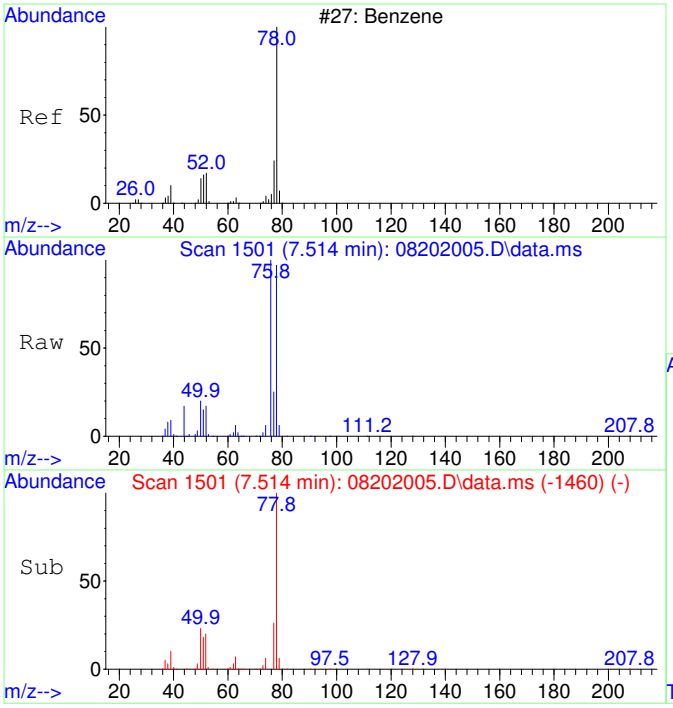


#32
Carbon tetrachloride SCAN
Concen: 5000.00 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

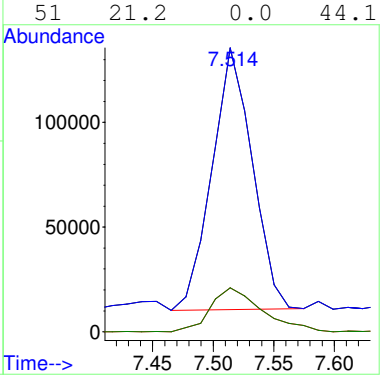


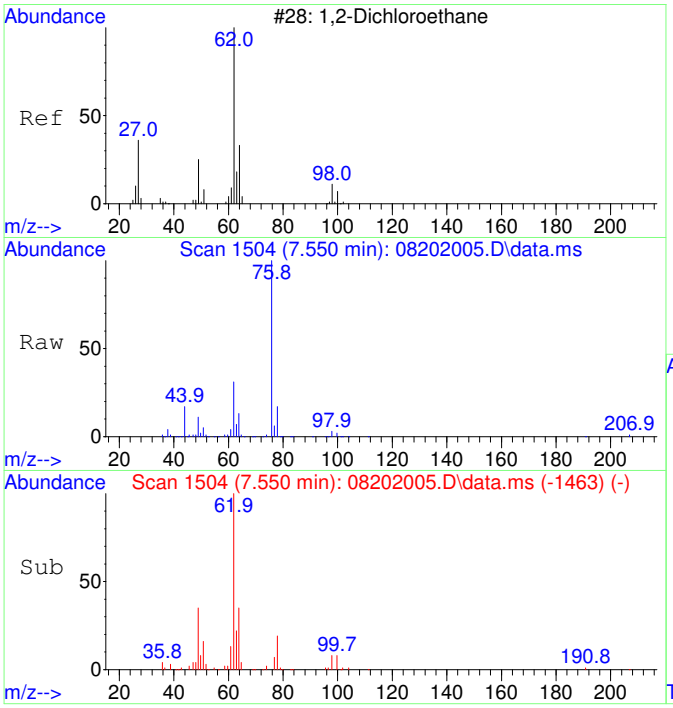


#33
Benzene SCAN
Concen: 5000.00 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

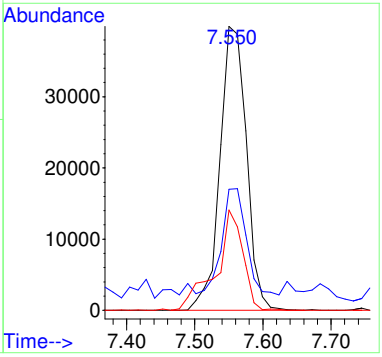


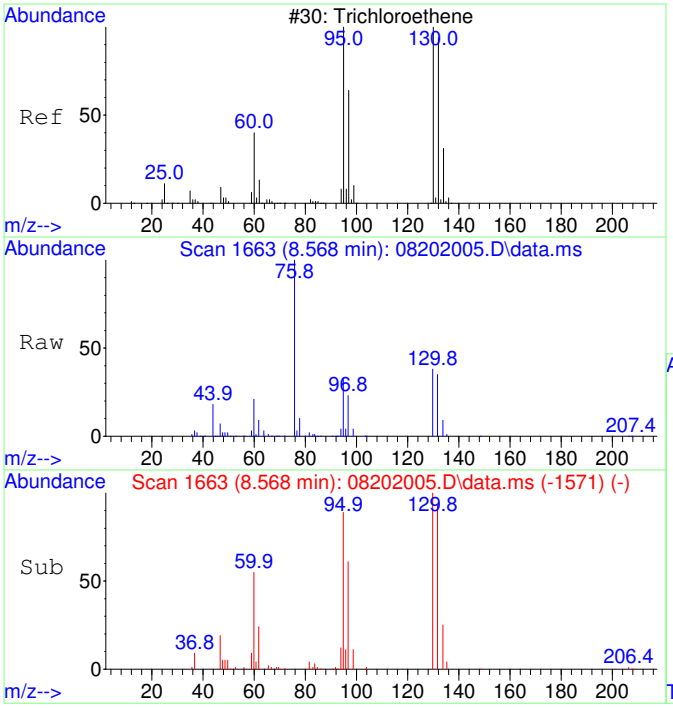


#34
1,2-Dichloroethane SCAN
Concen: 5000.00 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

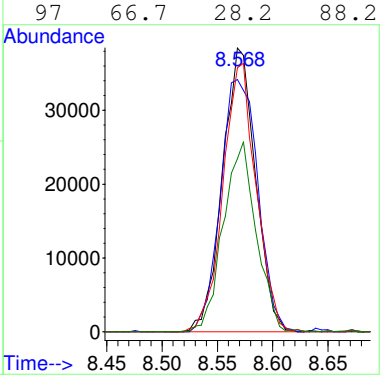


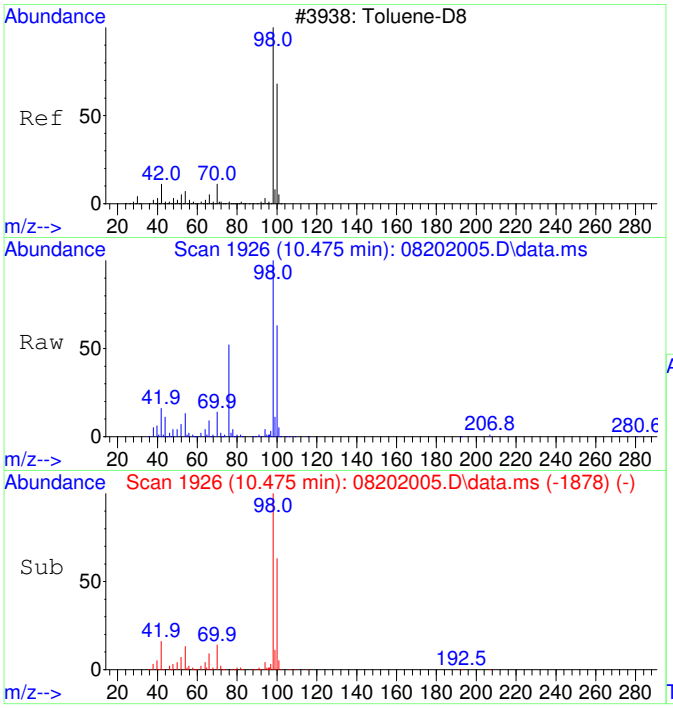


#35
Trichloroethene SCAN
Concen: 5000.00 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

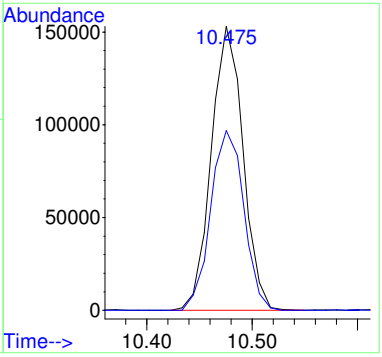


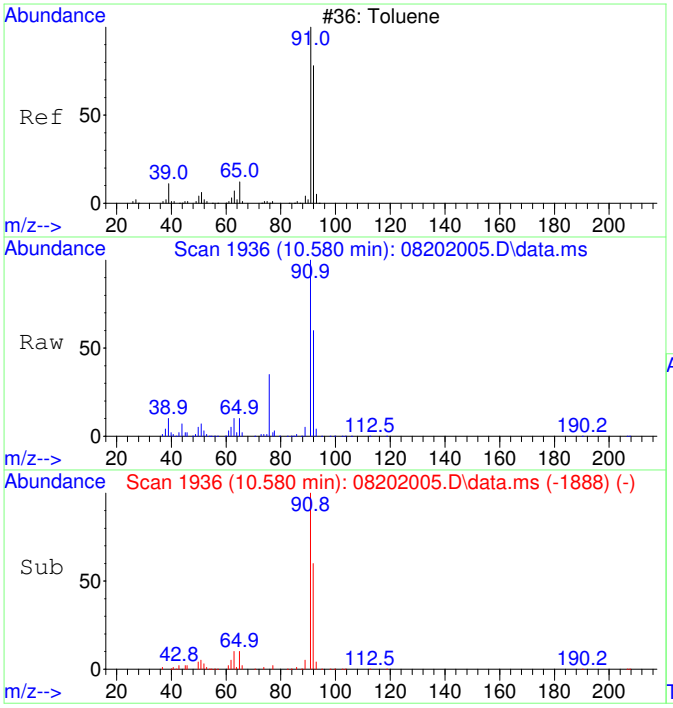


#36
Toluene-d8 SCAN
Concen: 5000.00 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

Tgt Ion: 98 Resp: 320910

Ion	Ratio	Lower	Upper
98	100		
100	66.2	40.0	100.0

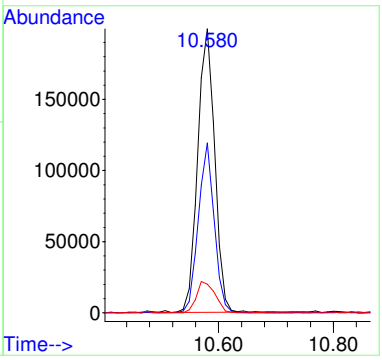


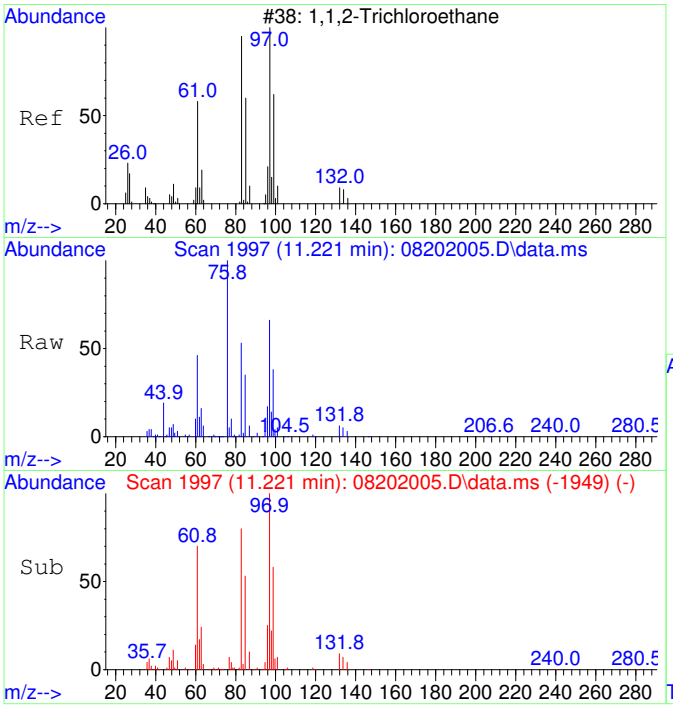


#37
Toluene SCAN
Concen: 5000.00 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

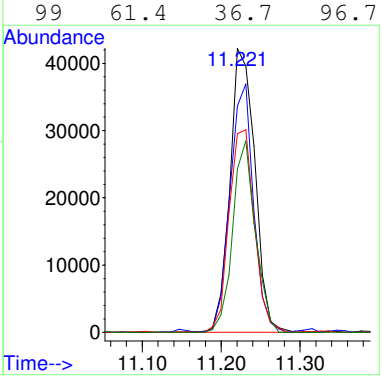


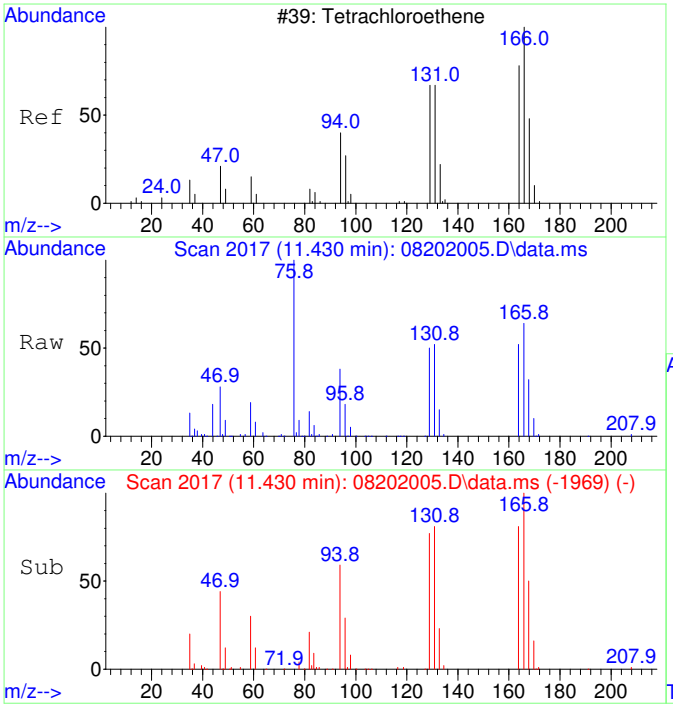


#38
1,1,2-Trichloroethane SCAN
Concen: 5000.00 ug/L
RT: 11.221 min Scan# 1997
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

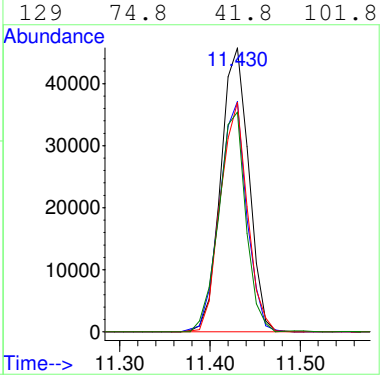


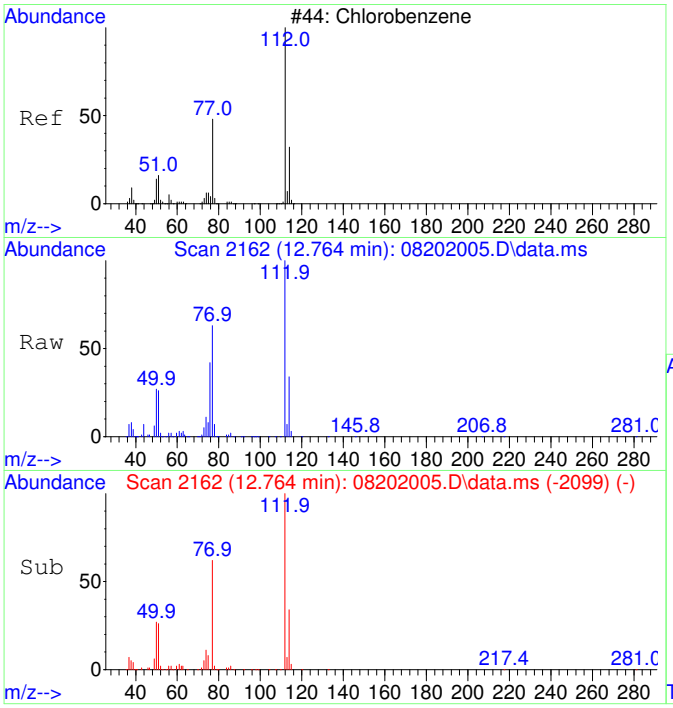


#39
Tetrachloroethene SCAN
Concen: 5000.00 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

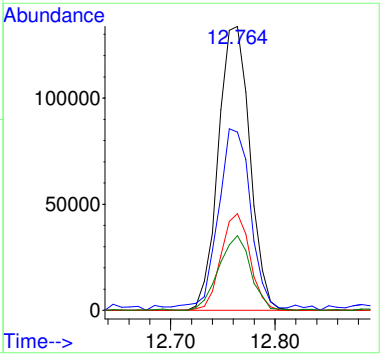


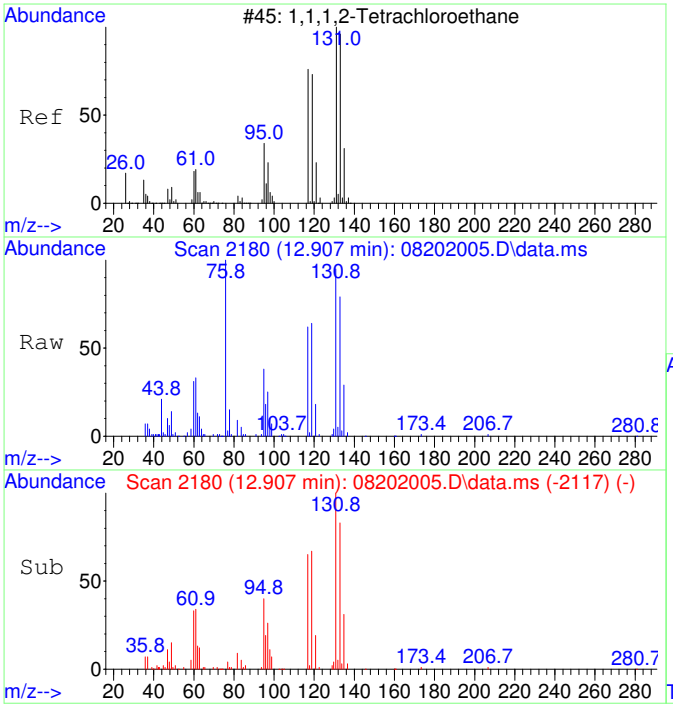


#40
Chlorobenzene SCAN
Concen: 5000.00 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

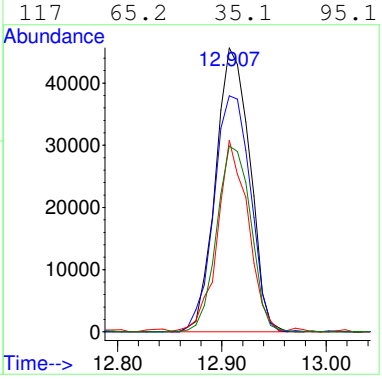


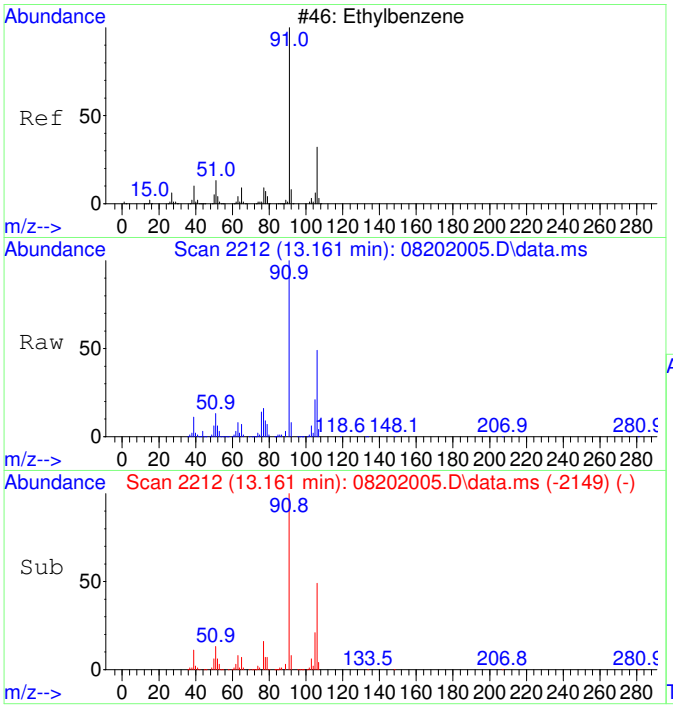


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 5000.00 ug/L
RT: 12.907 min Scan# 2180
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

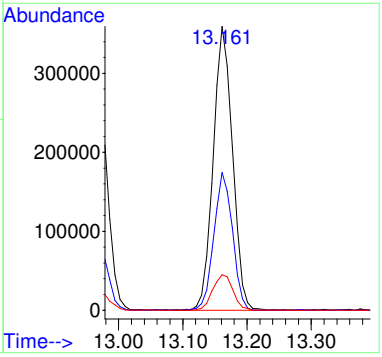


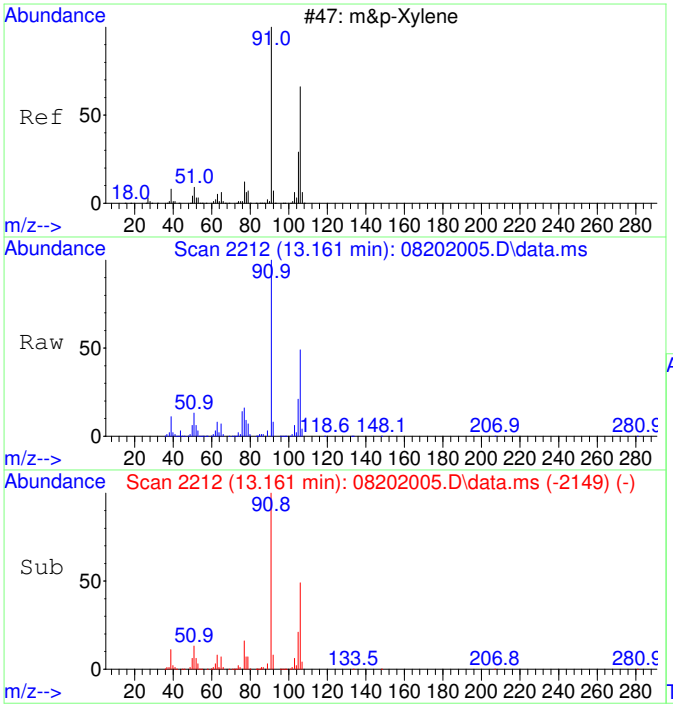


#42
Ethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

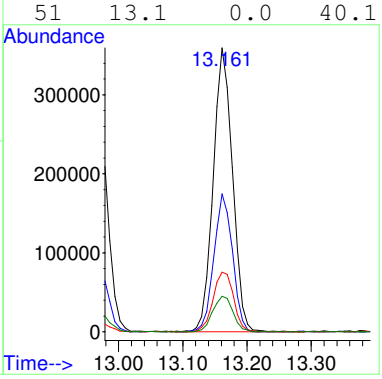


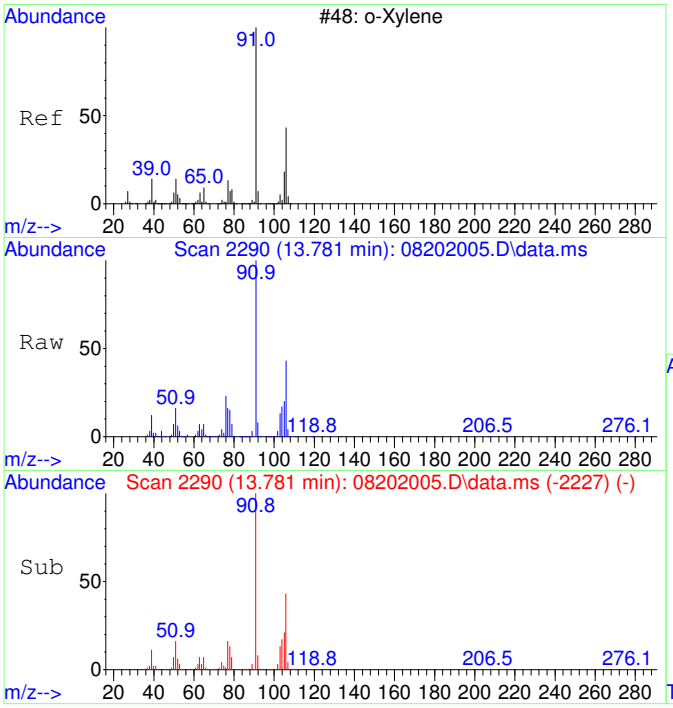


#43
m&p-Xylene SCAN
Concen: 5000.00 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

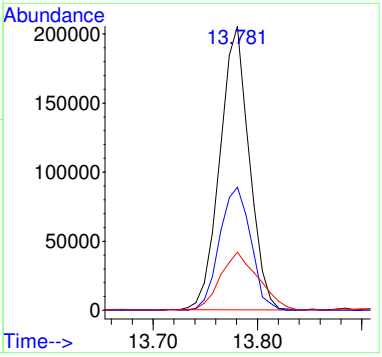


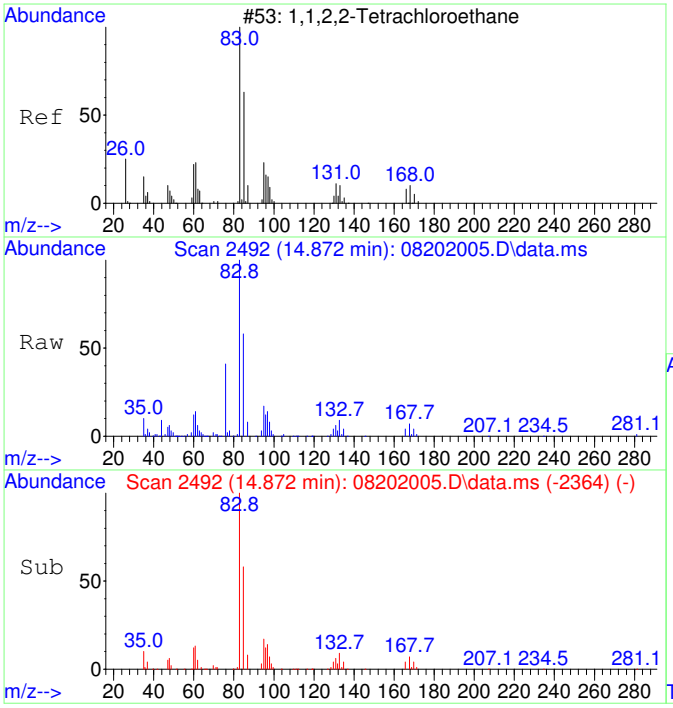


#44
o-Xylene SCAN
Concen: 5000.00 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

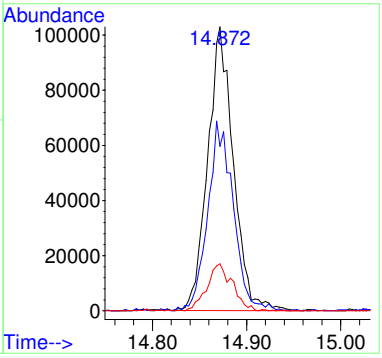


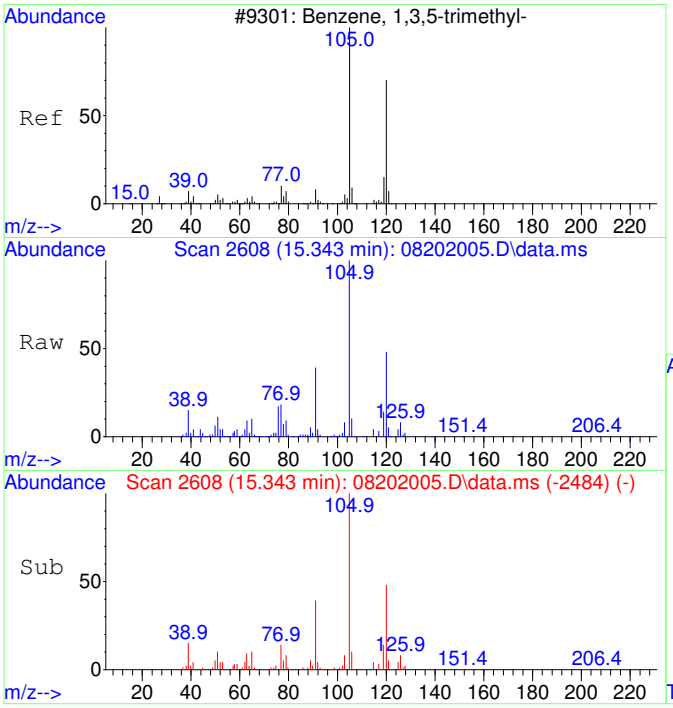


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 5000.00 ug/L
RT: 14.872 min Scan# 2492
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

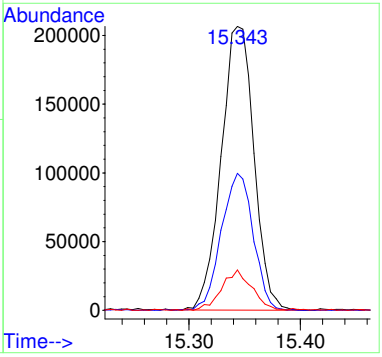


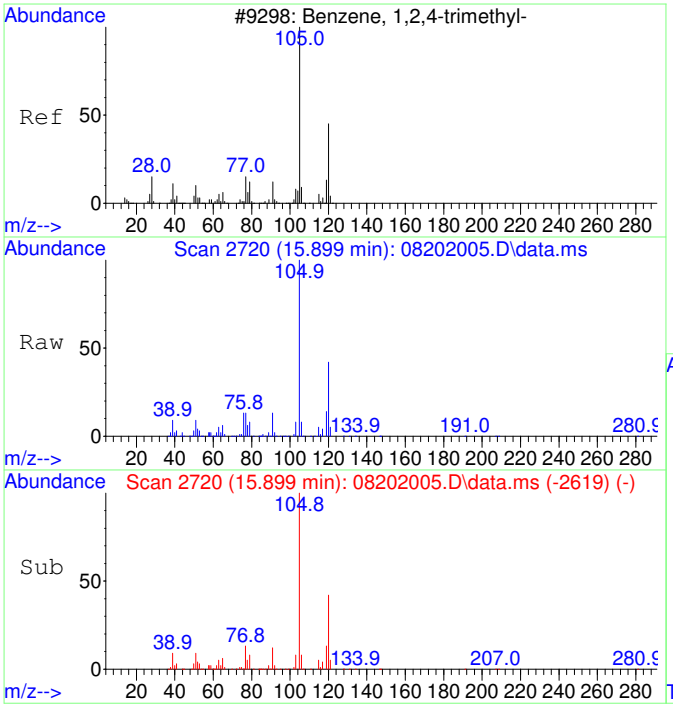


#46
1,3,5-Trimethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 15.343 min Scan# 2608
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

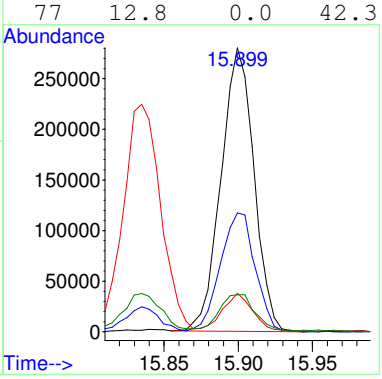


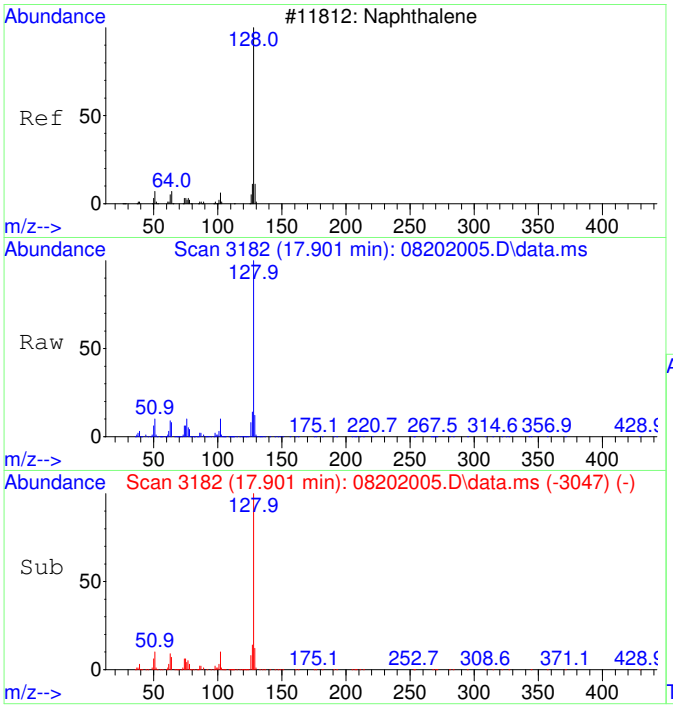


#47
1,2,4-Trimethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

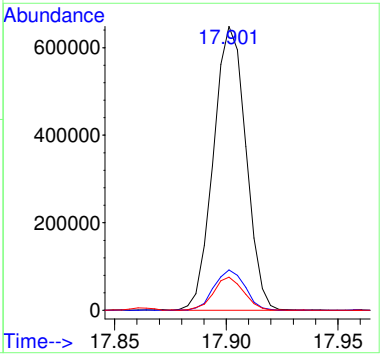




#48
Naphthalene SCAN
Concen: 5000.00 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. 0.000 min
Lab File: 08202005.D
Acq: 20 Aug 2020 16:13

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

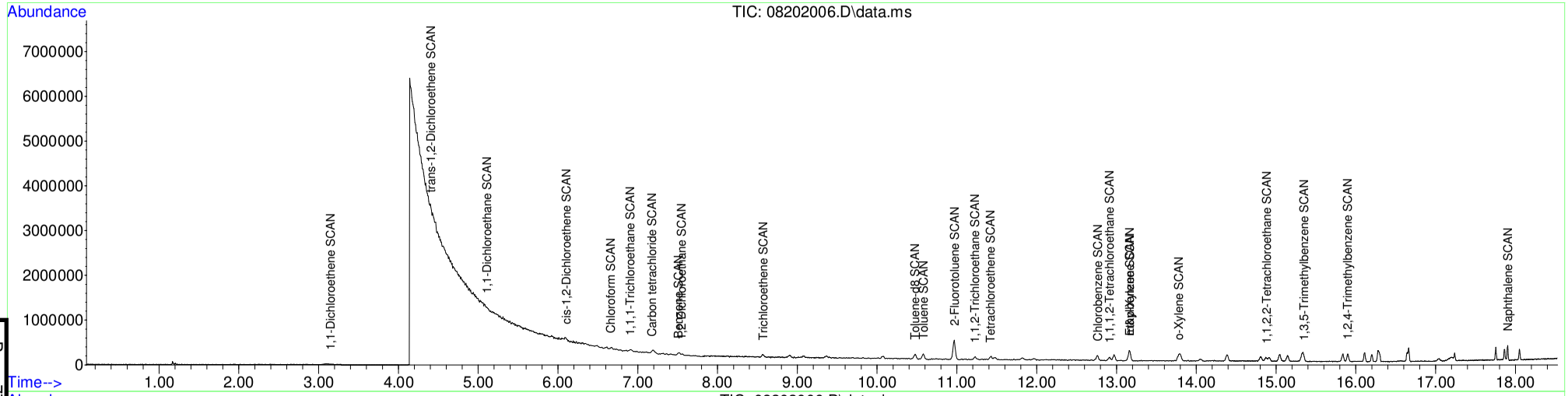
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.959	109	620555	5000.00	ug/L	-0.01
System Monitoring Compounds						
12) Toluene-d8	10.477	98	134499	1107.17	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 22.14%#			
Target Compounds						Qvalue
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



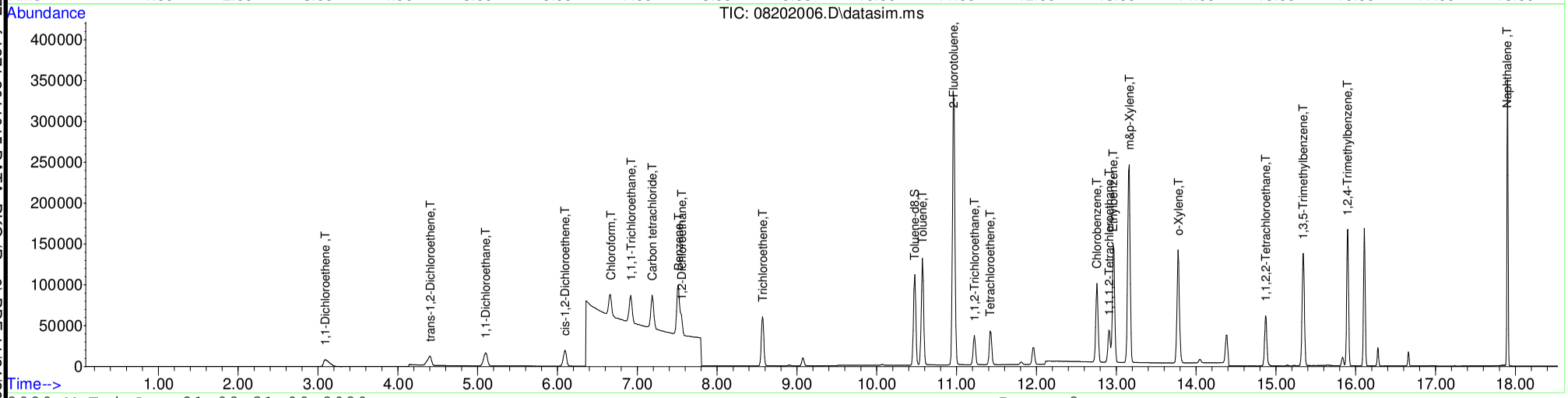


Table of Contents

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

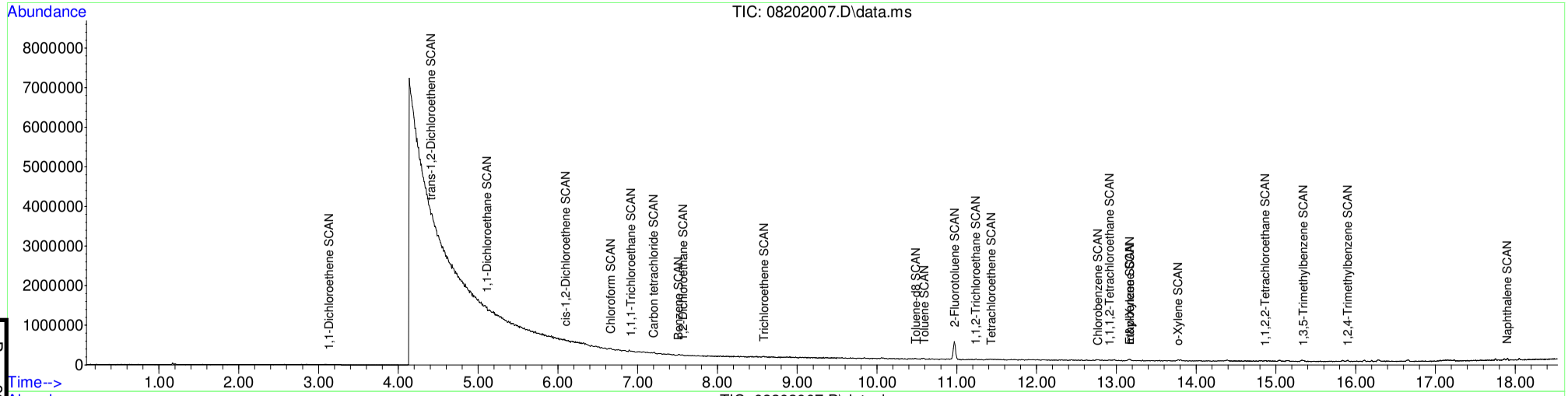
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	687675	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	18291	135.87	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 2.72%#			
Target Compounds						Qvalue
2] 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



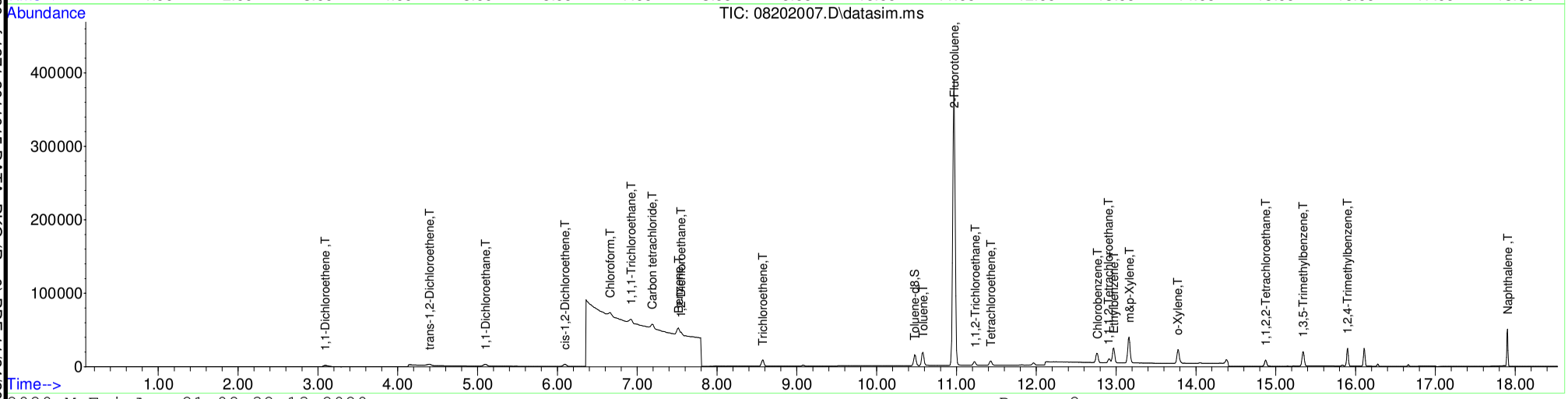
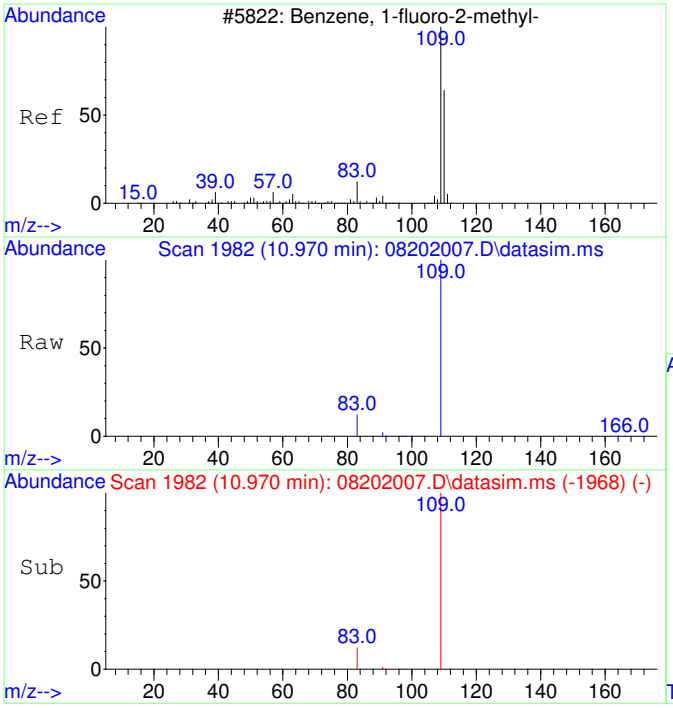


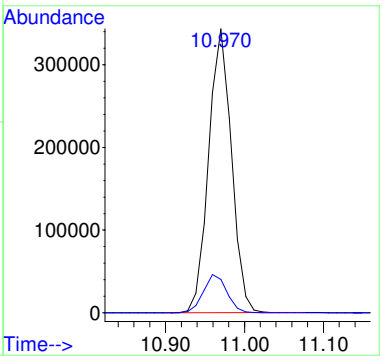
Table of Contents

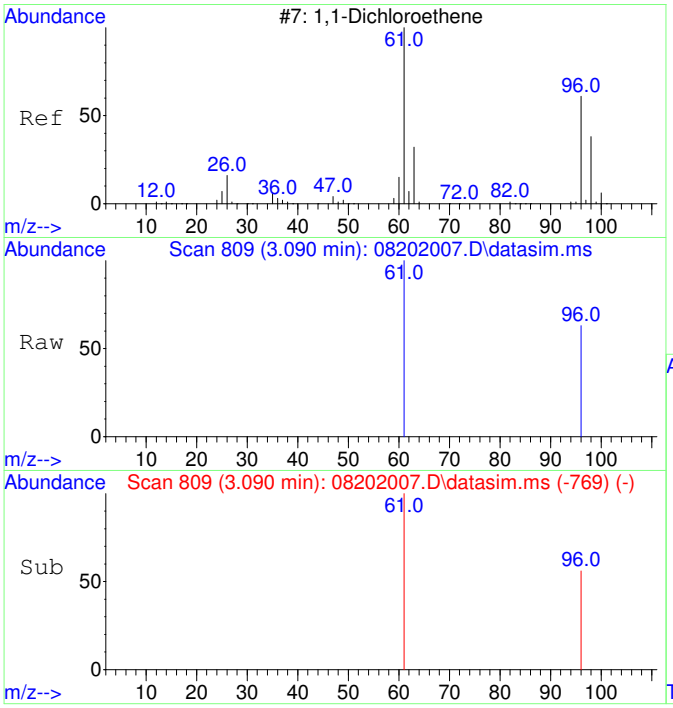


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:109 Resp: 687675

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

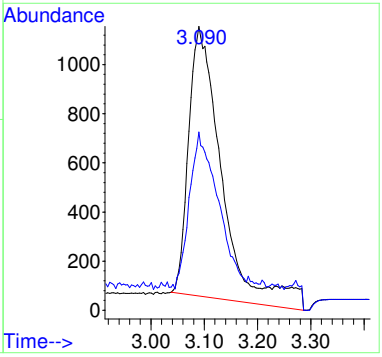




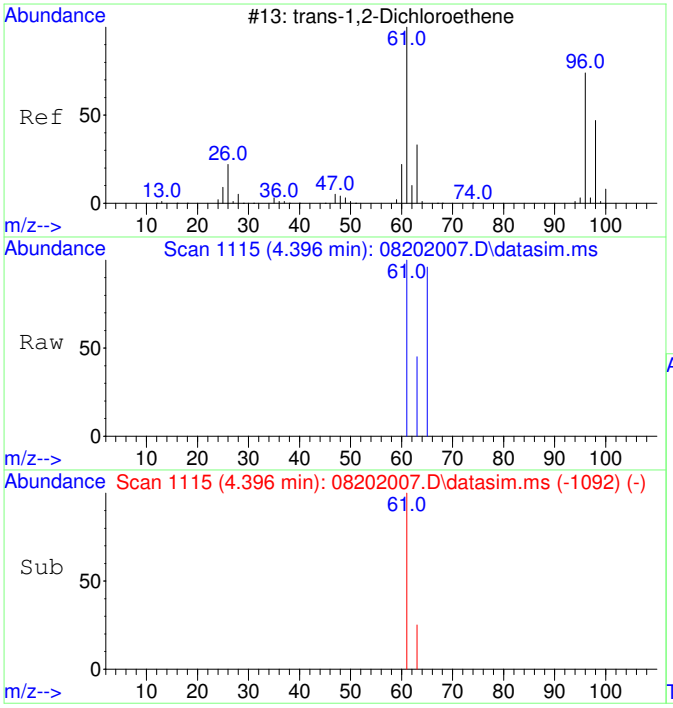
#2
1,1-Dichloroethene
Concen: 156.65 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 4736

Ion	Ratio	Lower	Upper
61	100		
96	56.8	37.2	97.2



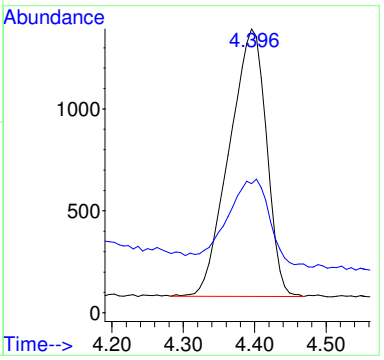
Before MI:
IMPROPER
BASELINE

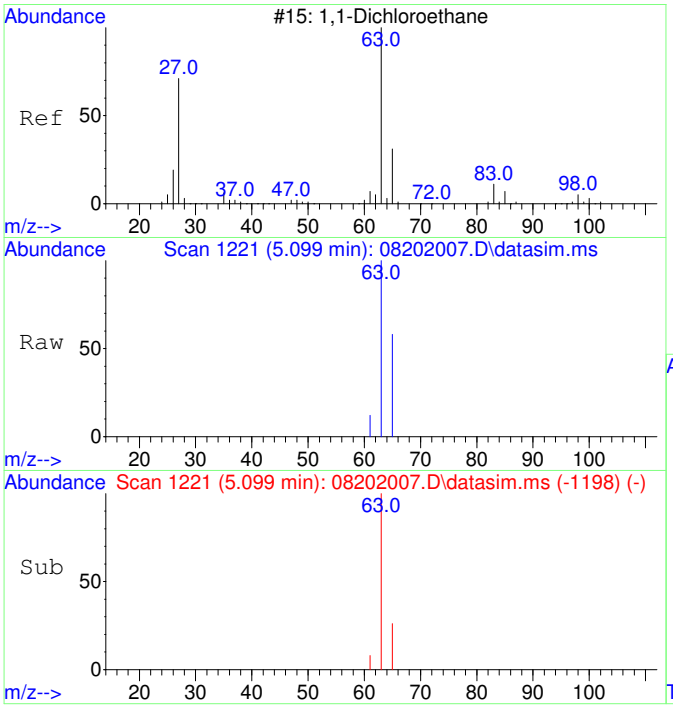


#3
trans-1,2-Dichloroethene
Concen: 149.50 ug/L
RT: 4.396 min Scan# 1115
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 4743

Ion	Ratio	Lower	Upper
61	100		
63	39.2	2.4	62.4

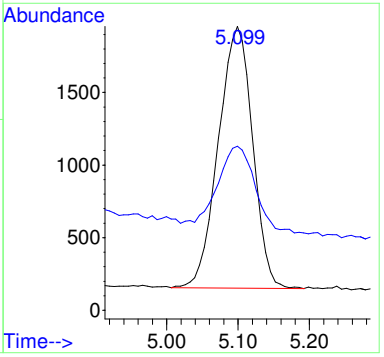


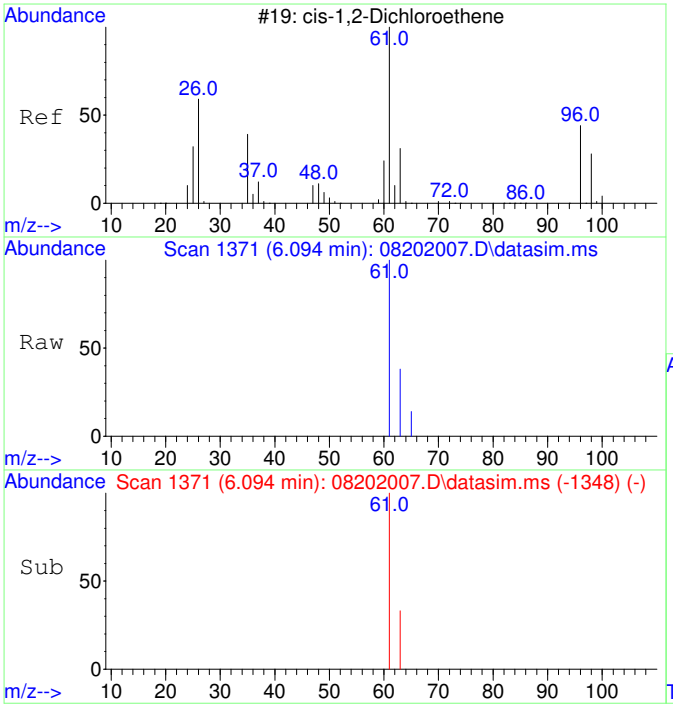


#4
1,1-Dichloroethane
Concen: 152.35 ug/L
RT: 5.099 min Scan# 1221
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 63 Resp: 6017

Ion	Ratio	Lower	Upper
63	100		
65	39.7	1.8	61.8

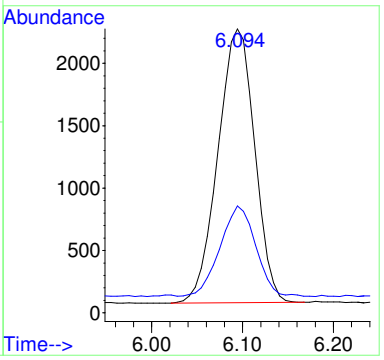


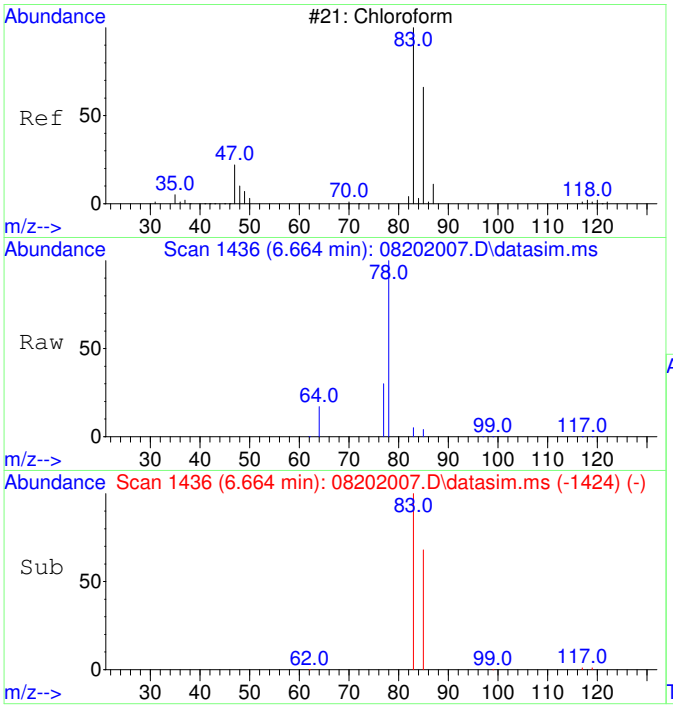


#5
cis-1,2-Dichloroethene
Concen: 148.27 ug/L
RT: 6.094 min Scan# 1371
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 6181

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

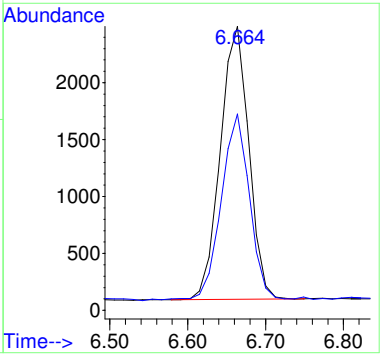


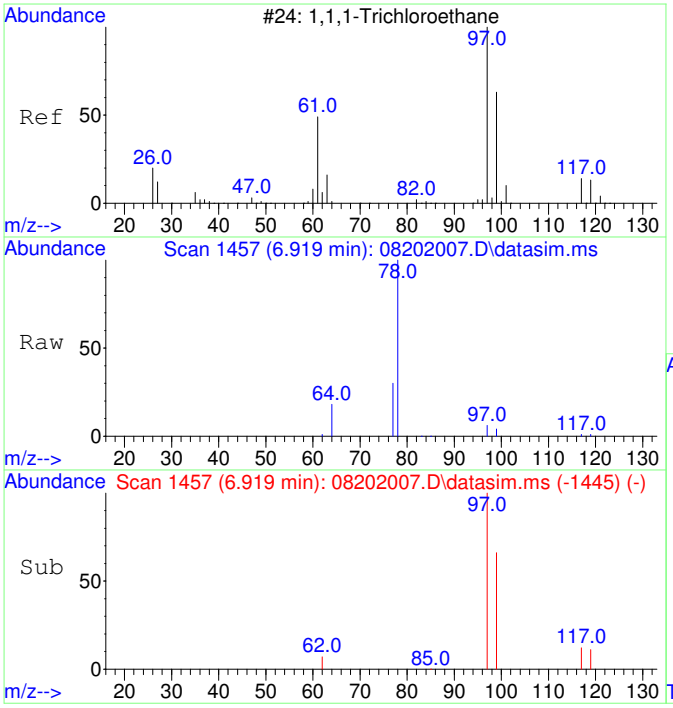


#6
Chloroform
Concen: 142.98 ug/L
RT: 6.664 min Scan# 1436
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 83 Resp: 6101

Ion	Ratio	Lower	Upper
83	100		
85	69.0	35.1	95.1

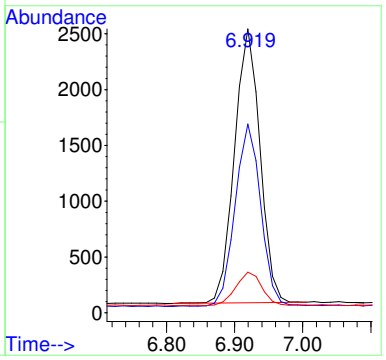


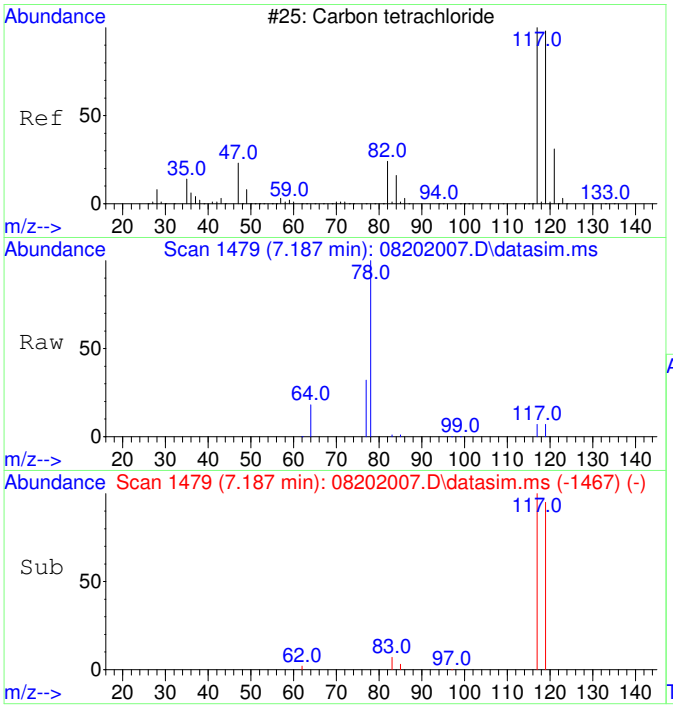


#7
1,1,1-Trichloroethane
Concen: 137.55 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

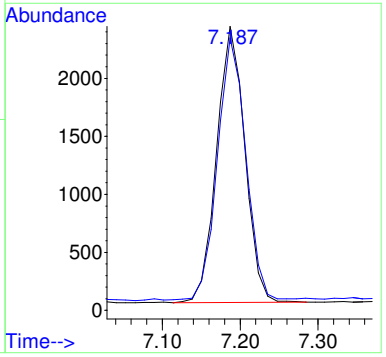


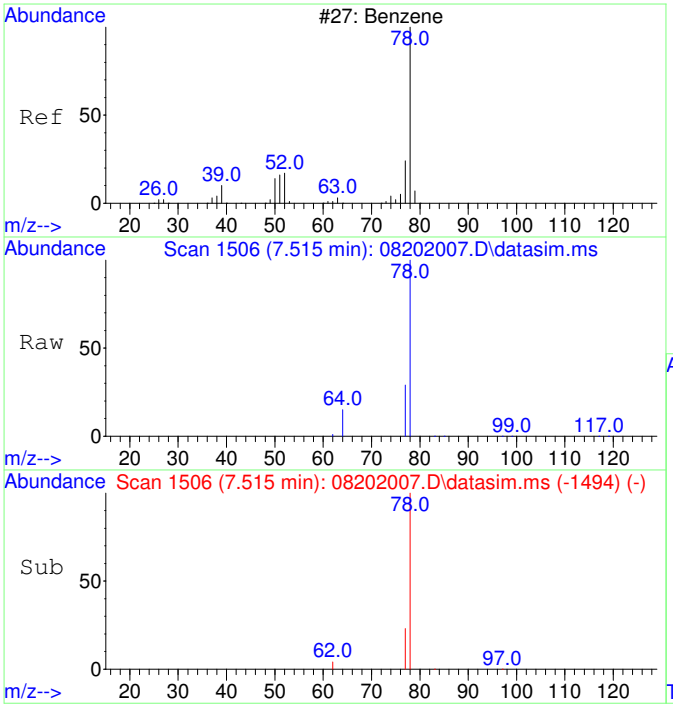


#8
Carbon tetrachloride
Concen: 137.06 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:117 Resp: 5978

Ion	Ratio	Lower	Upper
117	100		
119	94.6	66.4	126.4

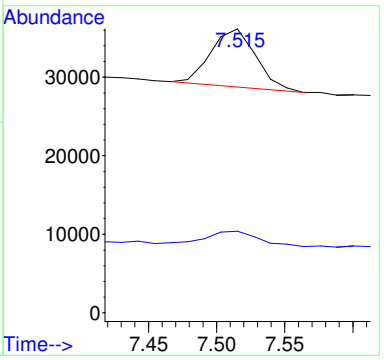


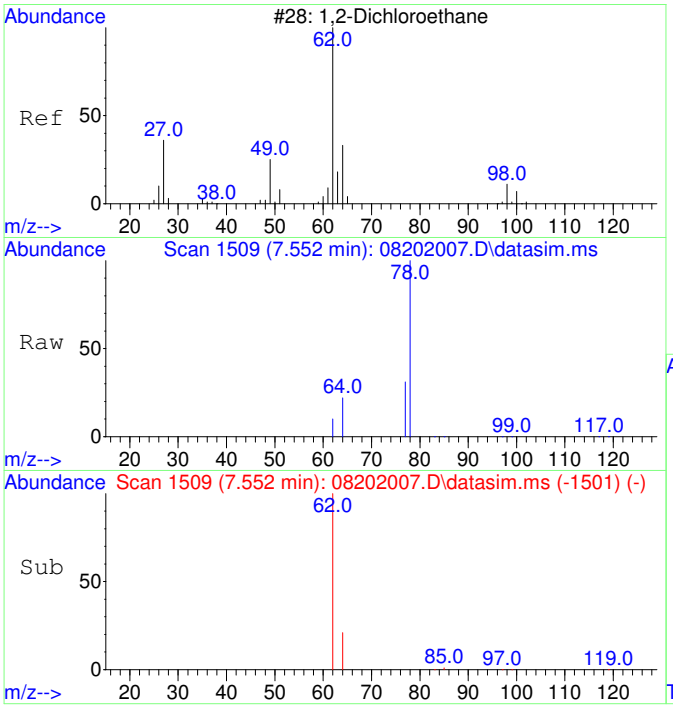


#9
Benzene
Concen: 140.33 ug/L
RT: 7.515 min Scan# 1506
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 78 Resp: 16396

Ion	Ratio	Lower	Upper
78	100		
77	35.6	0.0	53.2

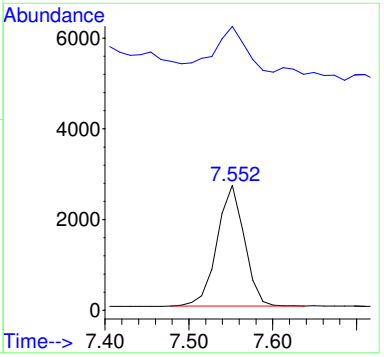


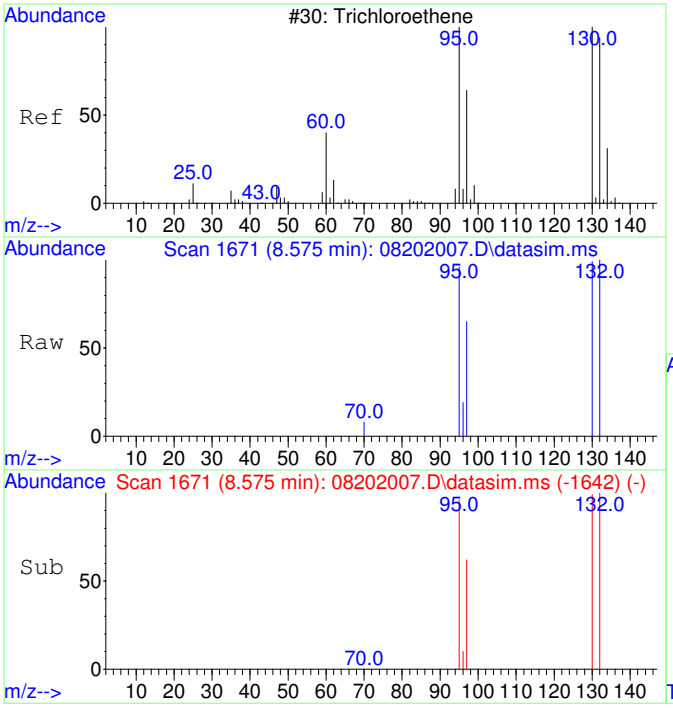


#10
1,2-Dichloroethane
Concen: 144.21 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 62 Resp: 6015

Ion	Ratio	Lower	Upper
62	100		
64	43.6	2.3	62.3

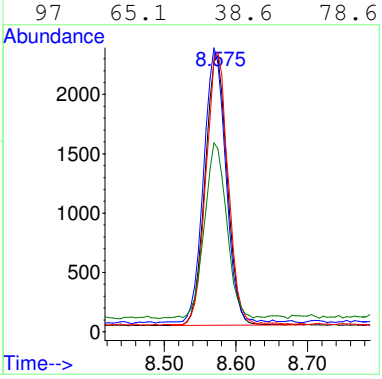


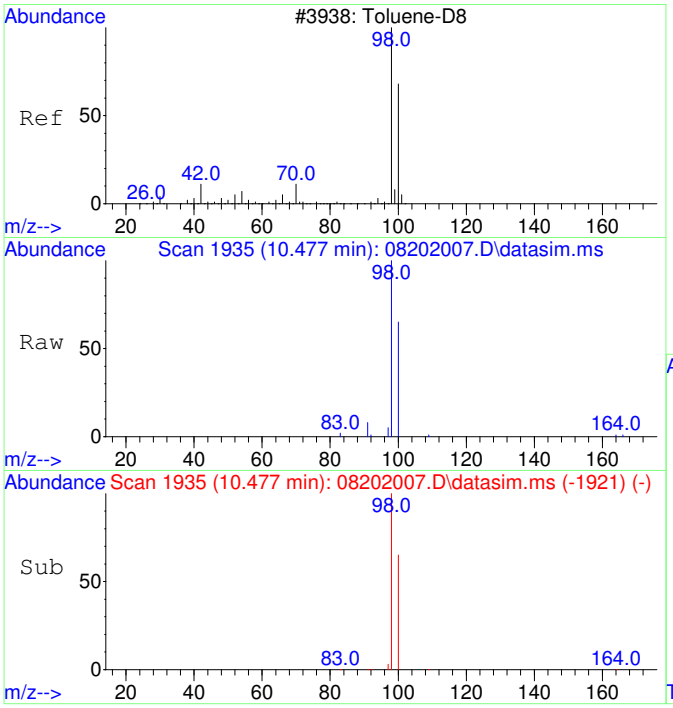


#11
Trichloroethene
Concen: 138.83 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.005 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

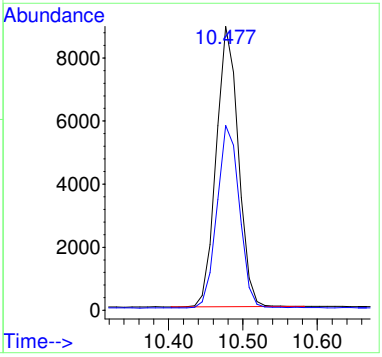


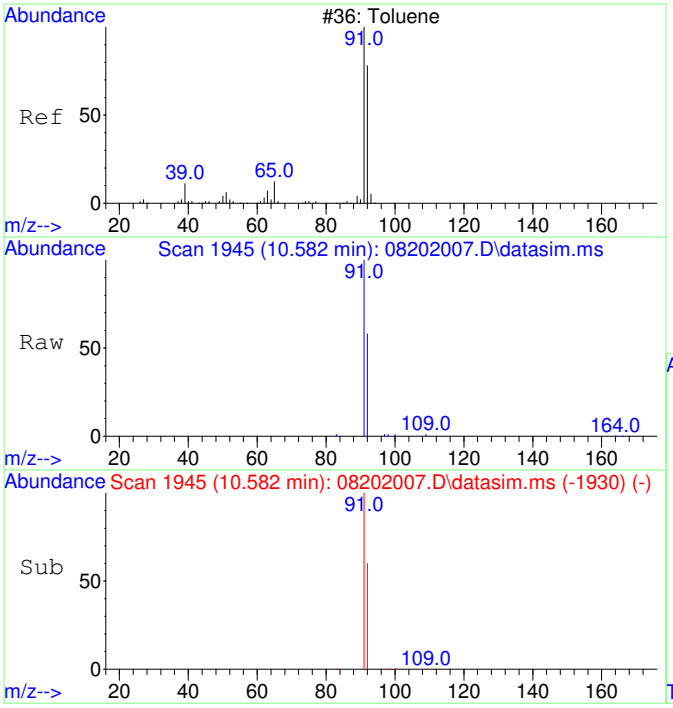


#12
Toluene-d8
Concen: 135.87 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 98 Resp: 18291

Ion	Ratio	Lower	Upper
98	100		
100	65.9	37.1	97.1

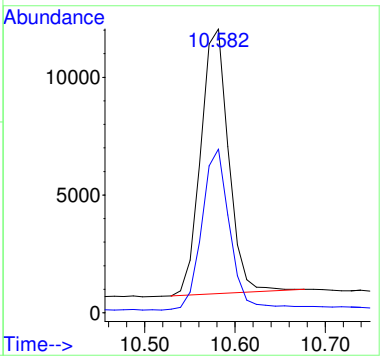


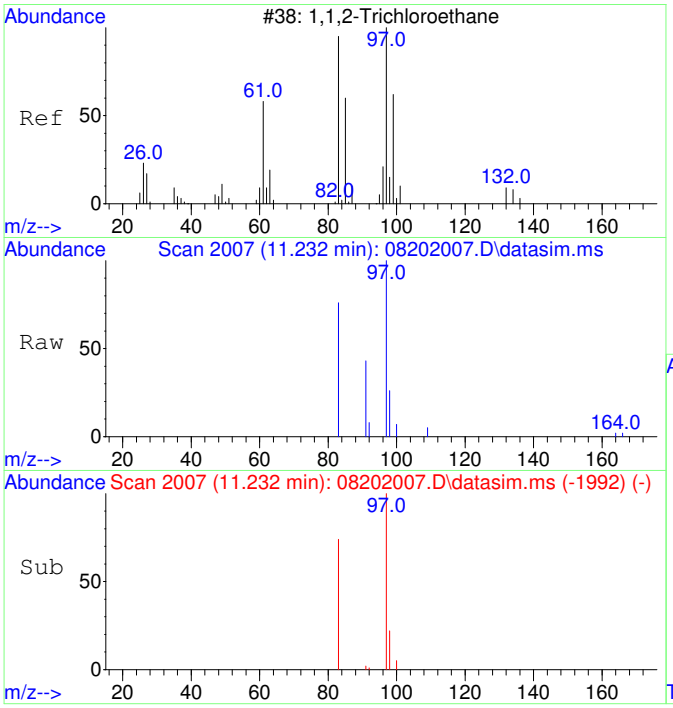


#13
Toluene
Concen: 141.38 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 24264

Ion	Ratio	Lower	Upper
91	100		
92	61.5	29.9	89.9

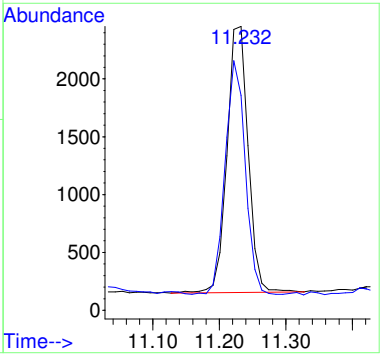


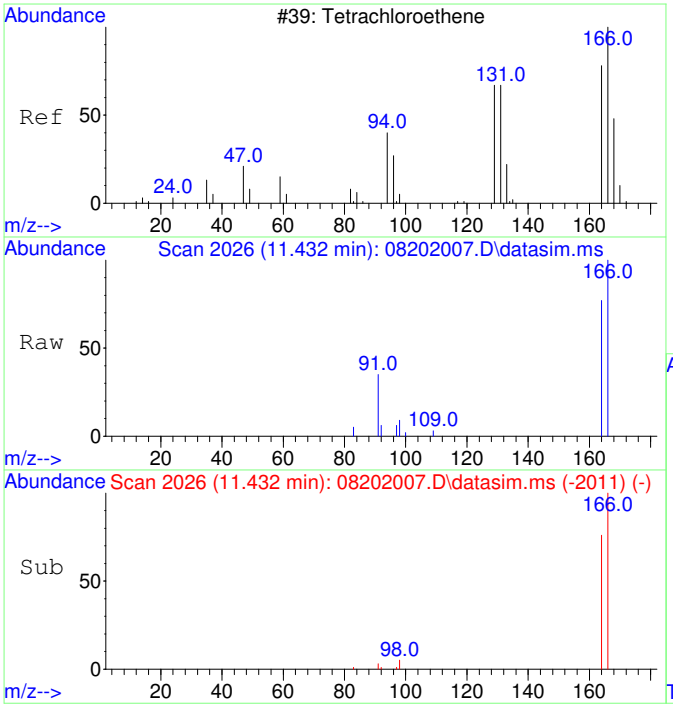


#14
1,1,2-Trichloroethane
Concen: 135.38 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 97 Resp: 5063

Ion	Ratio	Lower	Upper
97	100		
83	83.5	51.2	111.2

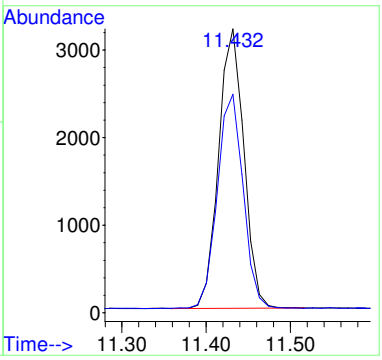


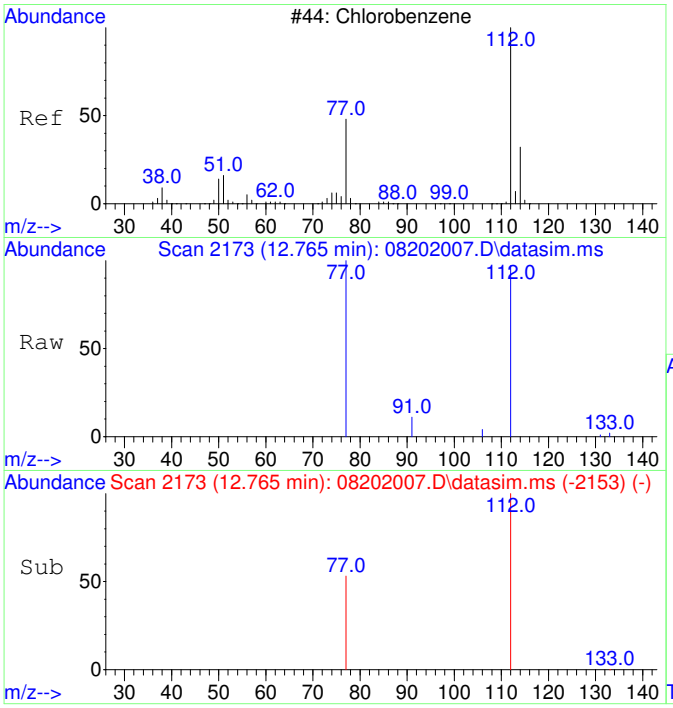


#15
Tetrachloroethene
Concen: 133.89 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:166 Resp: 6650

Ion	Ratio	Lower	Upper
166	100		
164	78.5	47.8	107.8

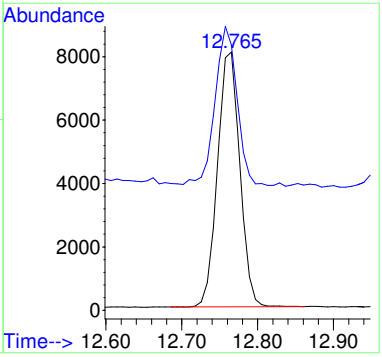


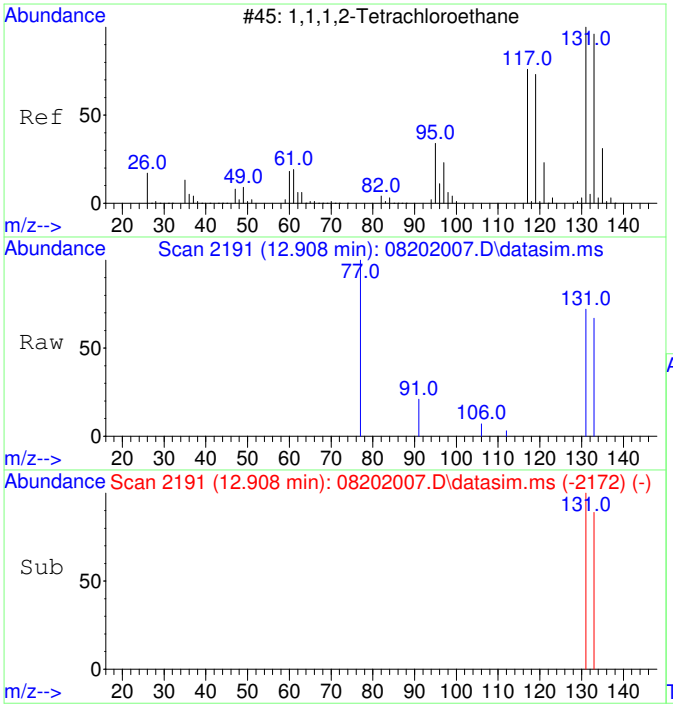


#16
Chlorobenzene
Concen: 133.98 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:112 Resp: 16465

Ion	Ratio	Lower	Upper
112	100		
77	60.1	23.6	83.6

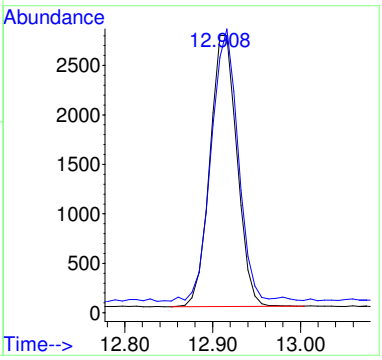


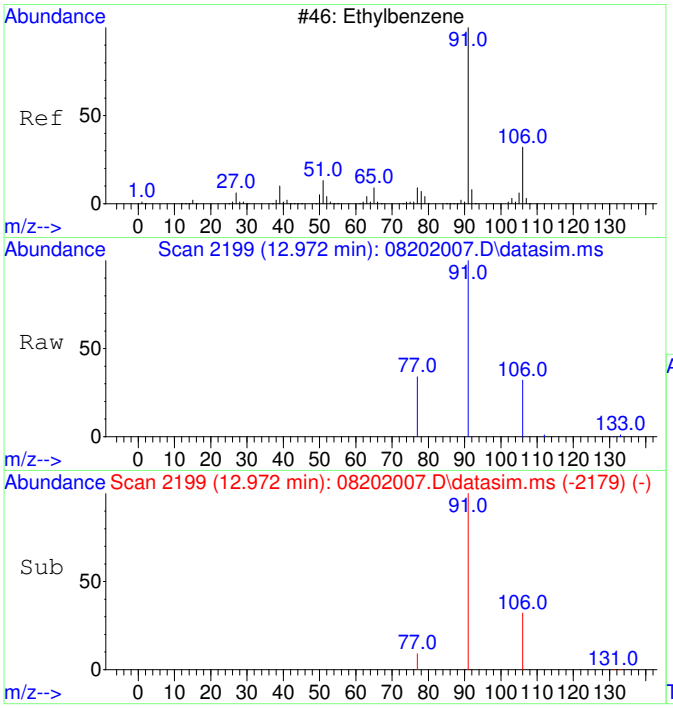


#17
1,1,1,2-Tetrachloroethane
Concen: 133.44 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:131 Resp: 5876

Ion	Ratio	Lower	Upper
131	100		
133	97.8	66.3	126.3

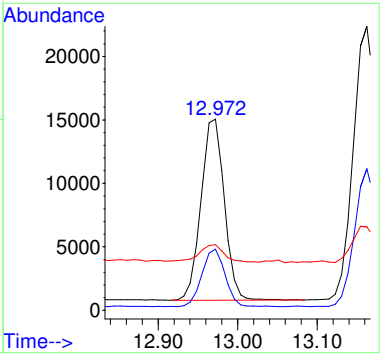


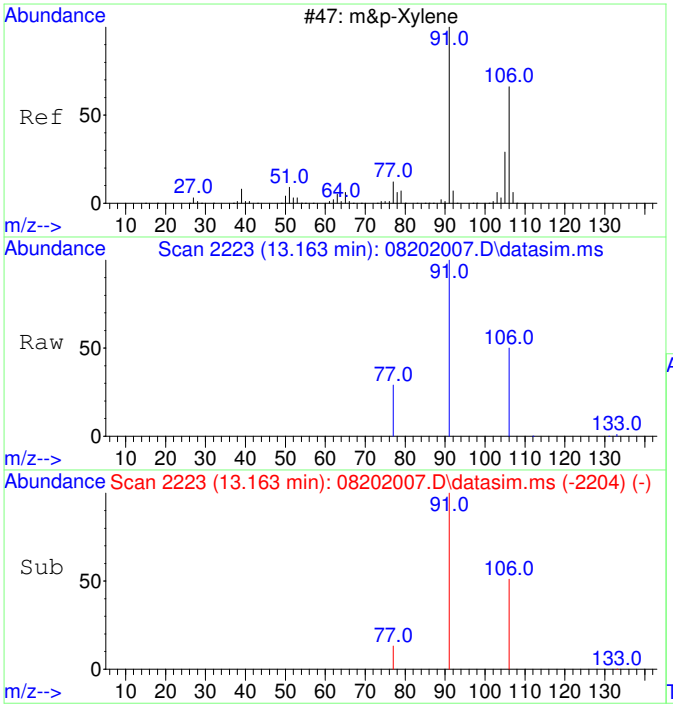


#18
Ethylbenzene
Concen: 139.19 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

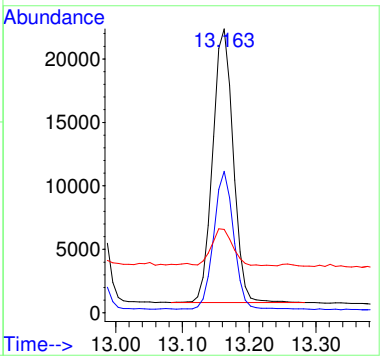


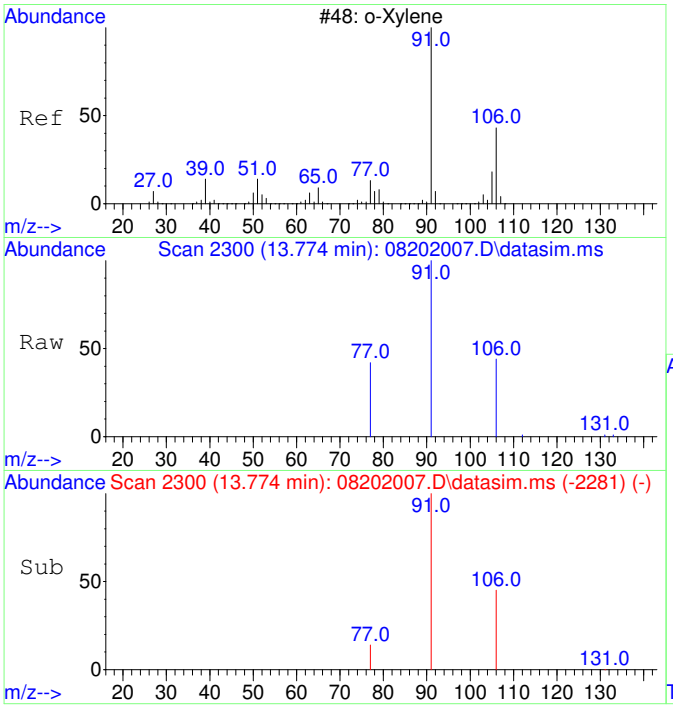


#19
m&p-Xylene
Concen: 281.41 ug/L
RT: 13.163 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

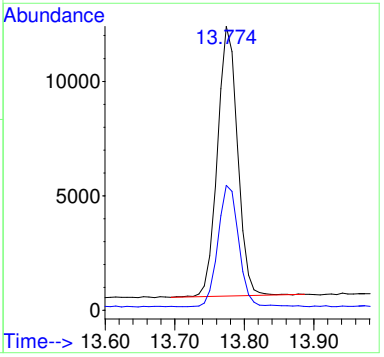


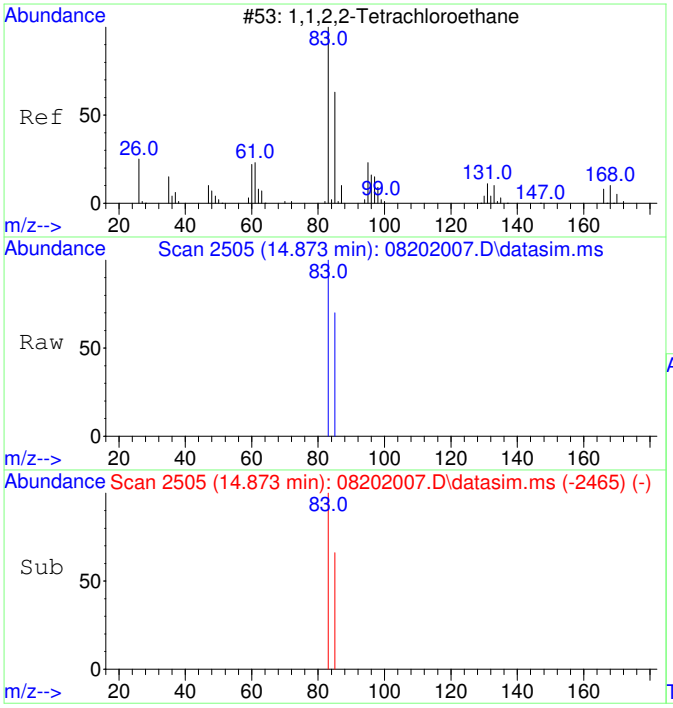


#20
o-Xylene
Concen: 135.47 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 23631

Ion	Ratio	Lower	Upper
91	100		
106	46.7	19.2	79.2

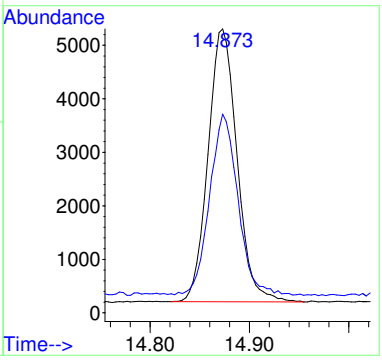


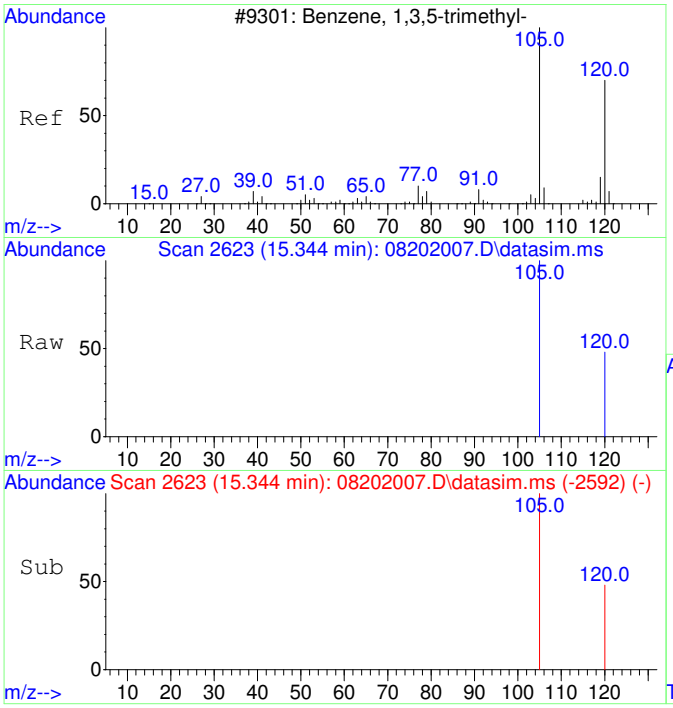


#21
1,1,2,2-Tetrachloroethane
Concen: 133.61 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 83 Resp: 10329

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.8	94.8

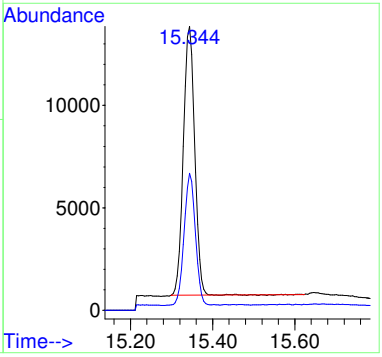


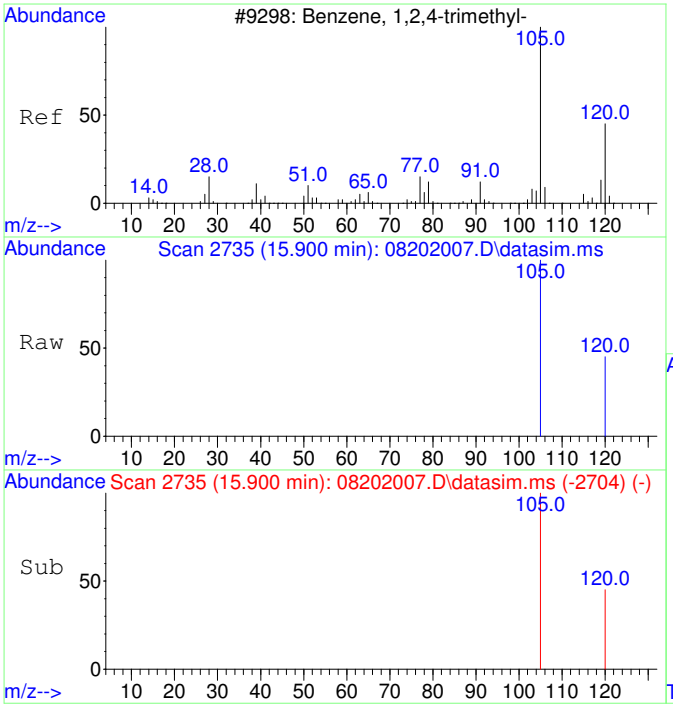


#22
1,3,5-Trimethylbenzene
Concen: 134.37 ug/L
RT: 15.344 min Scan# 2623
Delta R.T. -0.001 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:105 Resp: 24949

Ion	Ratio	Lower	Upper
105	100		
120	48.8	21.1	81.1

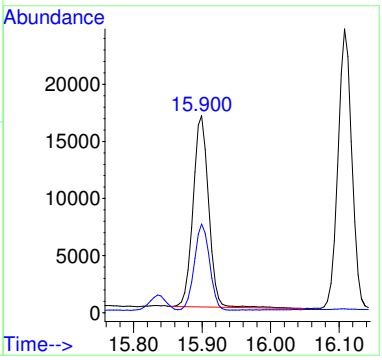


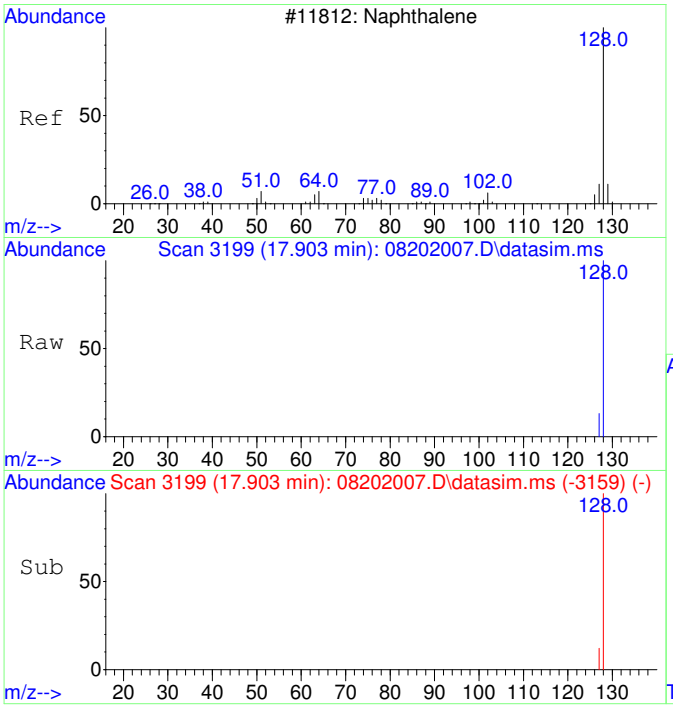


#23
1,2,4-Trimethylbenzene
Concen: 137.33 ug/L
RT: 15.900 min Scan# 2735
Delta R.T. 0.004 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:105 Resp: 26485

Ion	Ratio	Lower	Upper
105	100		
120	43.4	17.2	77.2

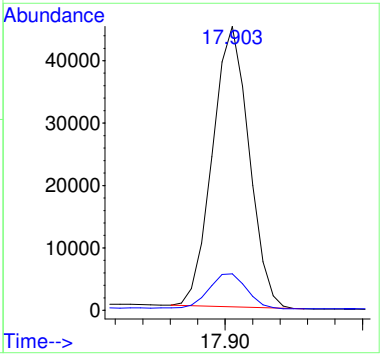


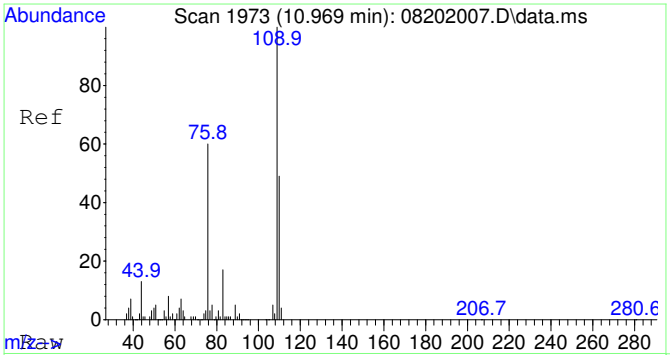


#24
Naphthalene
Concen: 135.77 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:128 Resp: 41384

Ion	Ratio	Lower	Upper
128	100		
127	12.6	0.0	42.5

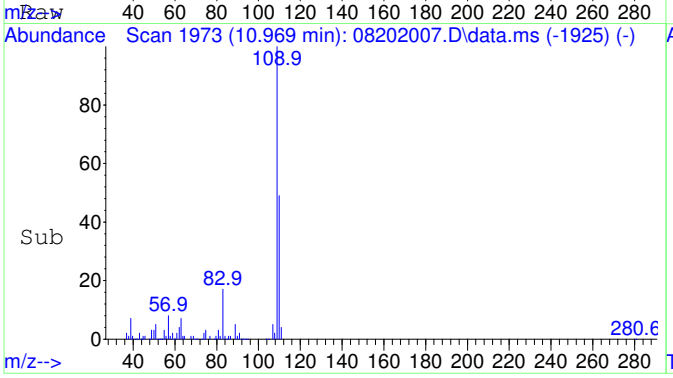


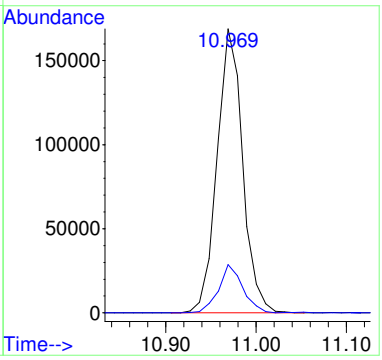


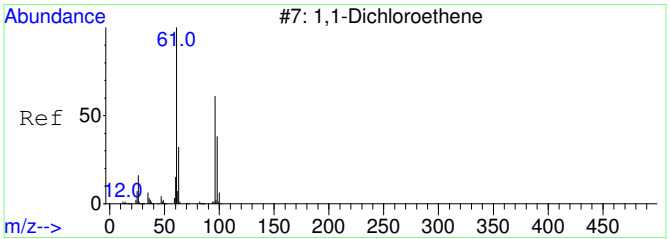
#25
2-Fluorotoluene SCAN
Concen: 4966.84 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:109 Resp: 332955

Ion	Ratio	Lower	Upper
109	100		
83	15.9	0.0	43.8



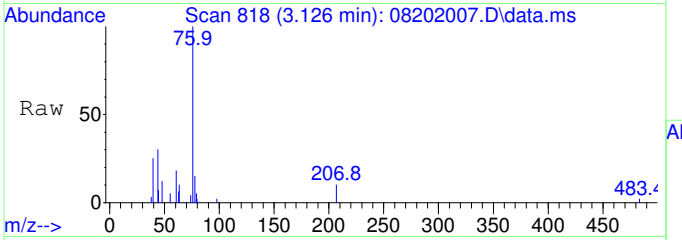


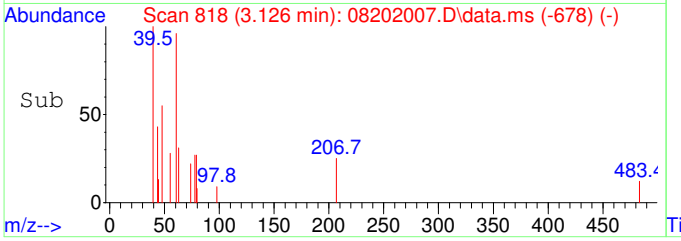


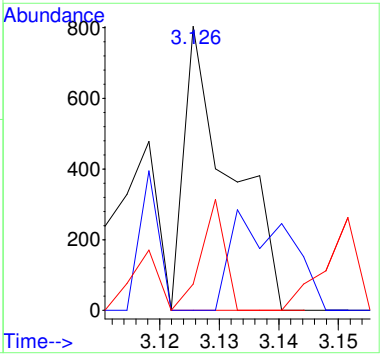
#26
1,1-Dichloroethene SCAN
Concen: 30.49 ug/L
RT: 3.126 min Scan# 818
Delta R.T. 0.019 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

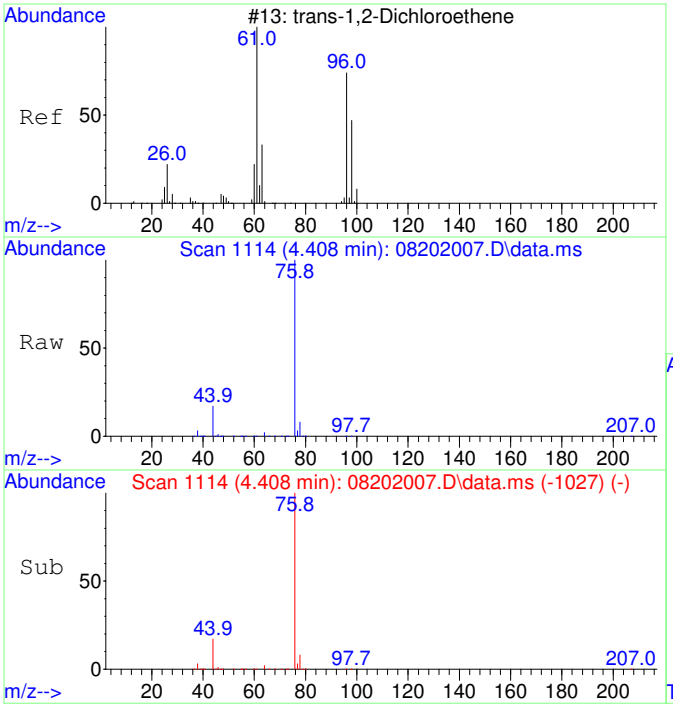
Tgt Ion: 61 Resp: 434

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





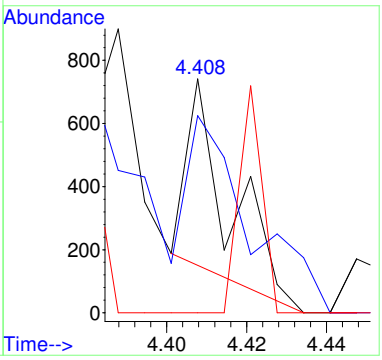


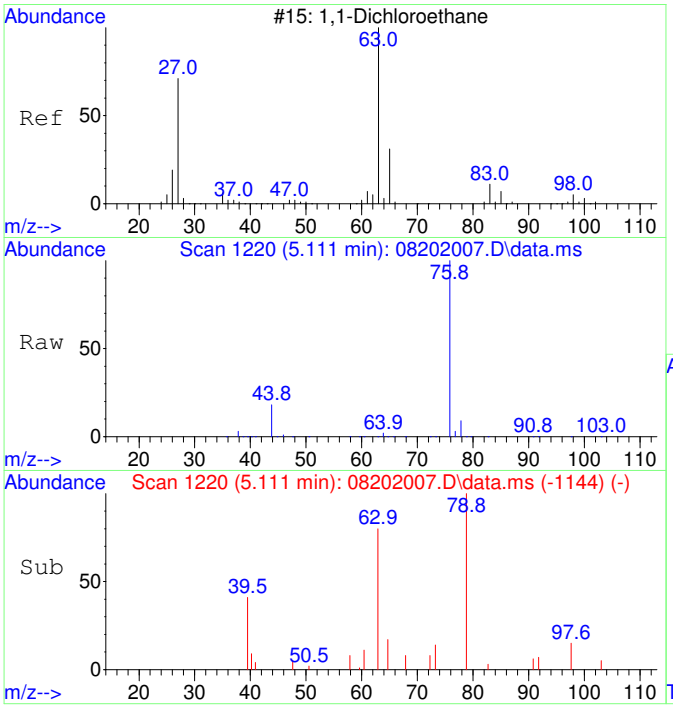


#27
trans-1,2-Dichloroethene SCAN
Concen: 22.42 ug/L
RT: 4.408 min Scan# 1114
Delta R.T. 0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

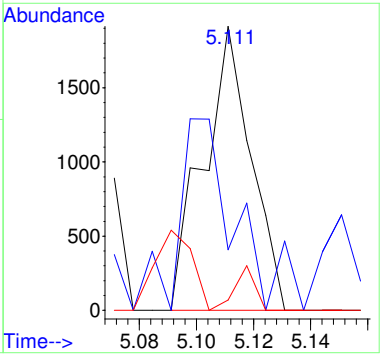


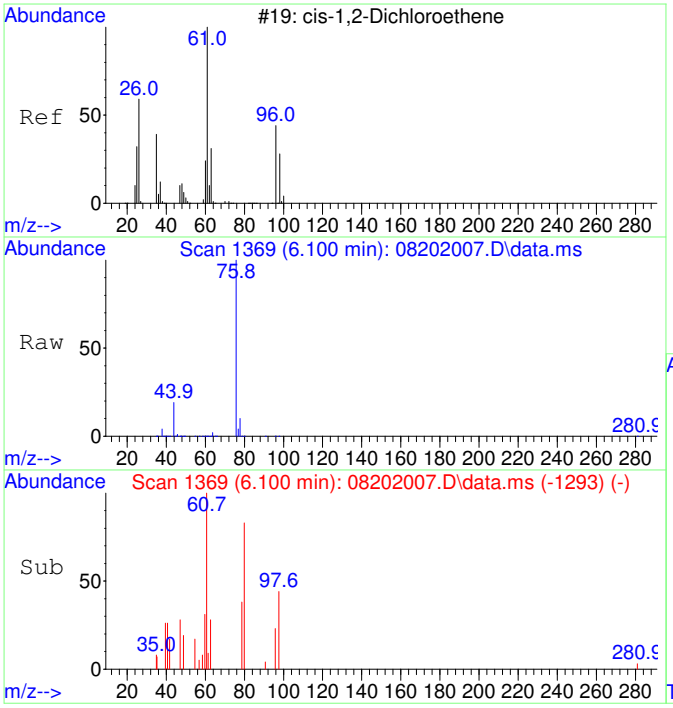


#28
1,1-Dichloroethane SCAN
Concen: 109.38 ug/L
RT: 5.111 min Scan# 1220
Delta R.T. 0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

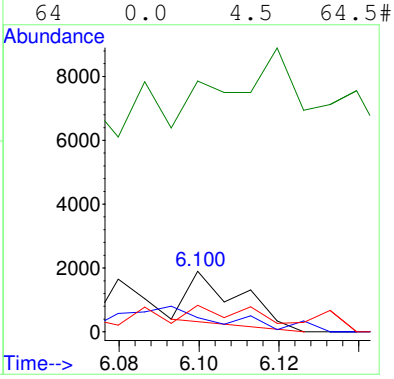


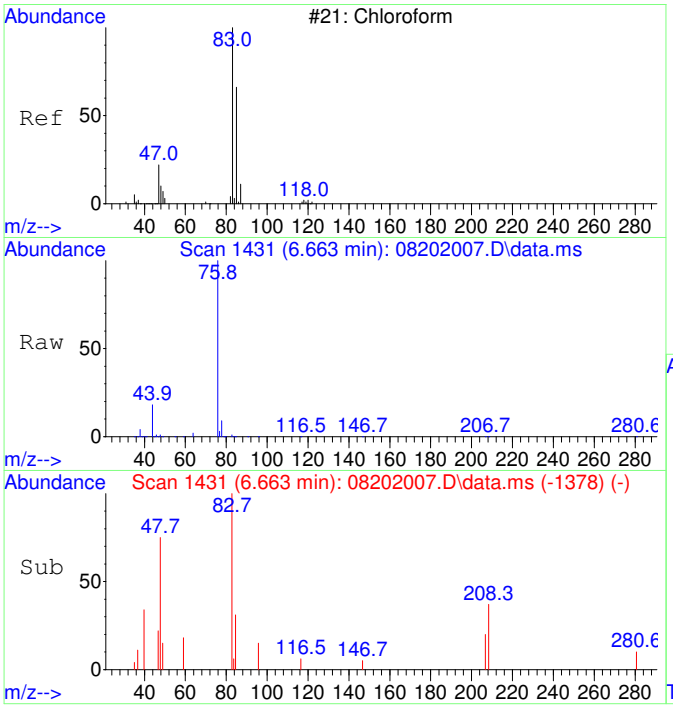


#29
cis-1,2-Dichloroethene SCAN
Concen: 63.68 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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#

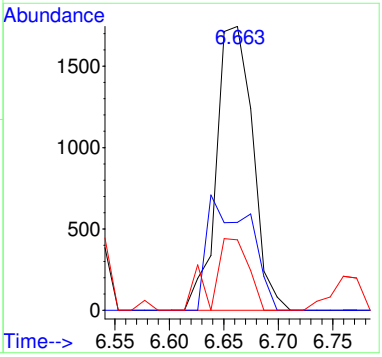


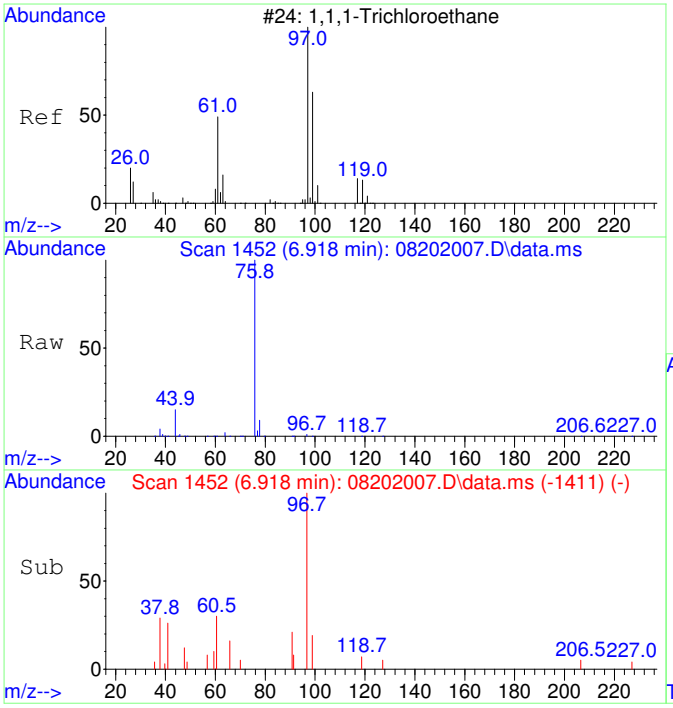


#30
Chloroform SCAN
Concen: 171.15 ug/L
RT: 6.663 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

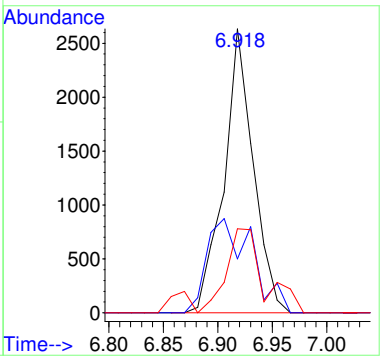


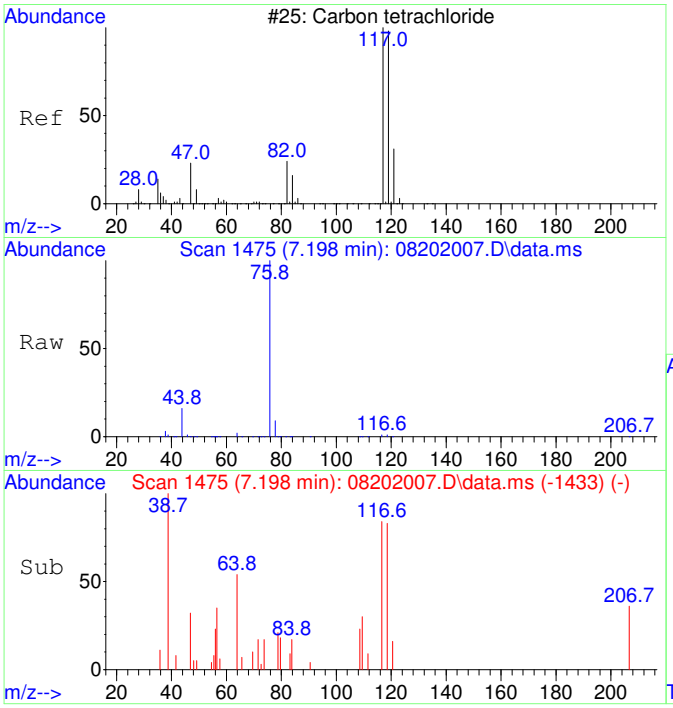


#31
1,1,1-Trichloroethane SCAN
Concen: 228.30 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

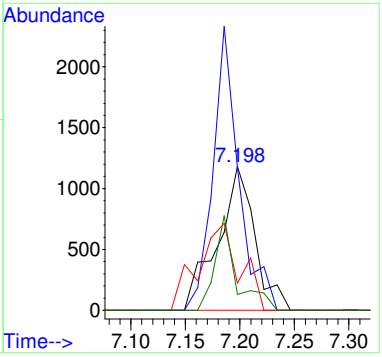


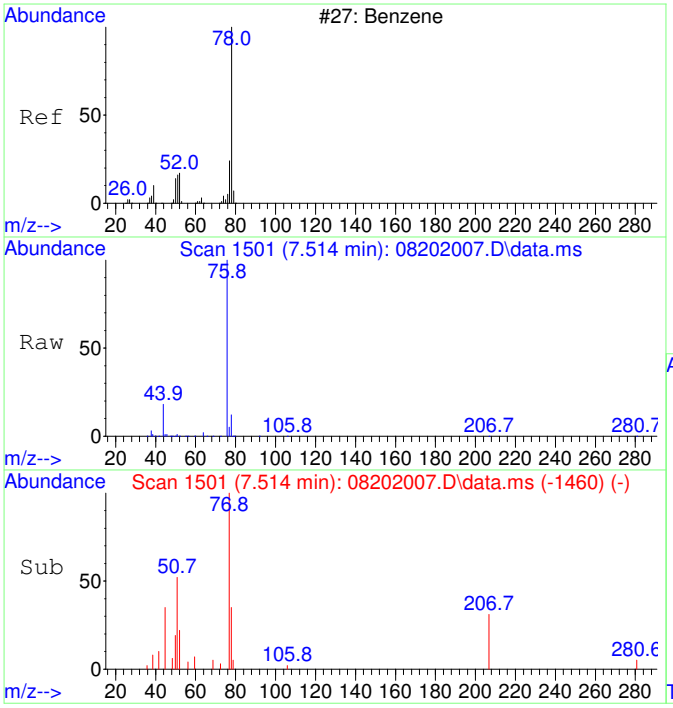


#32
Carbon tetrachloride SCAN
Concen: 124.33 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. 0.012 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

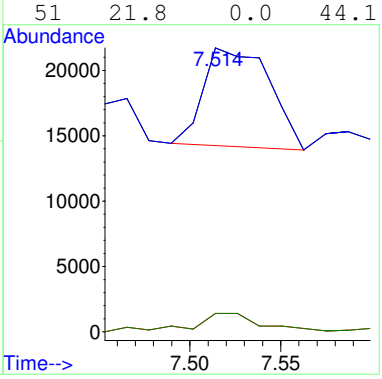


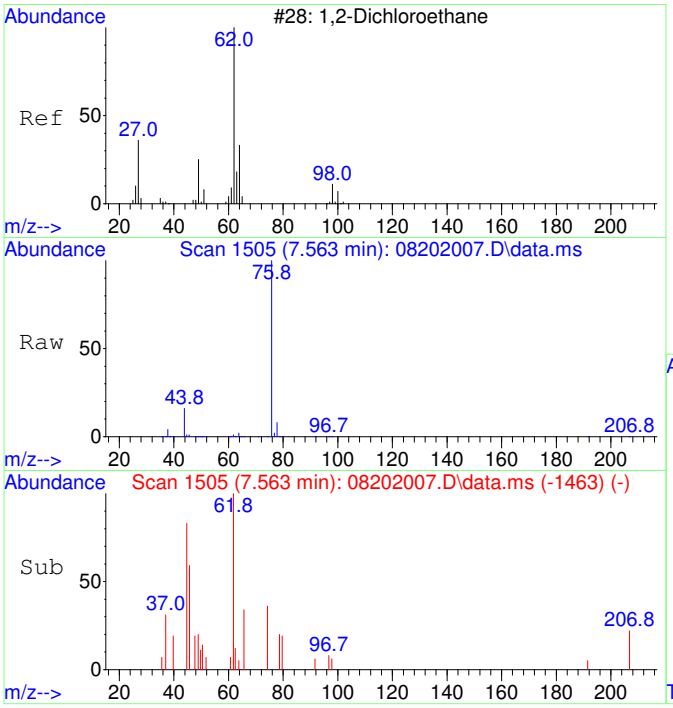


#33
Benzene SCAN
Concen: 317.45 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

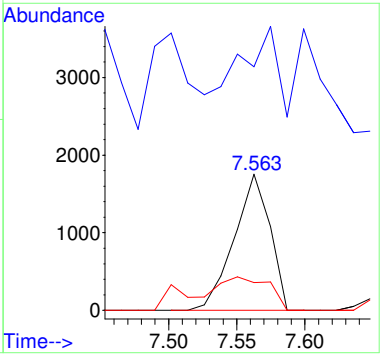


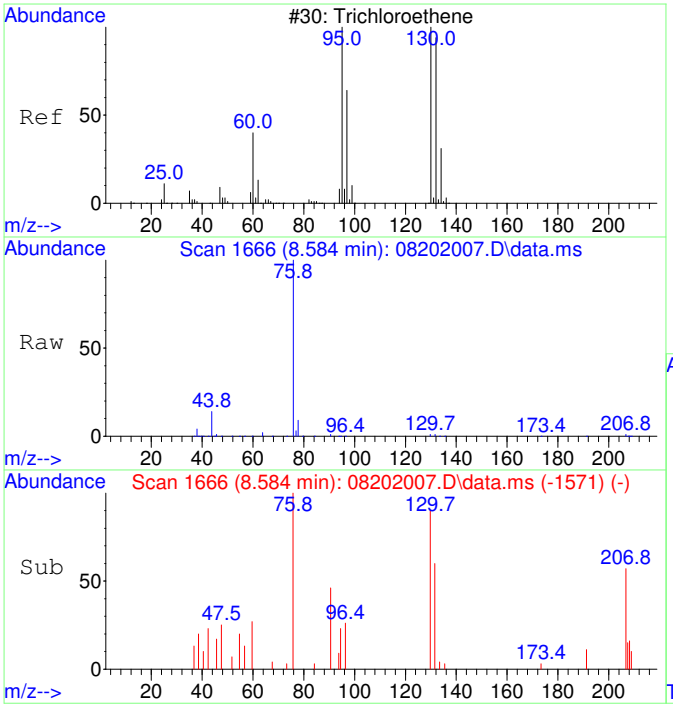


#34
1,2-Dichloroethane SCAN
Concen: 146.10 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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#

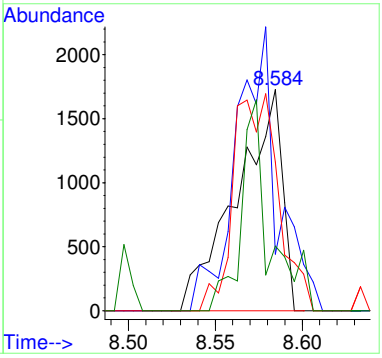


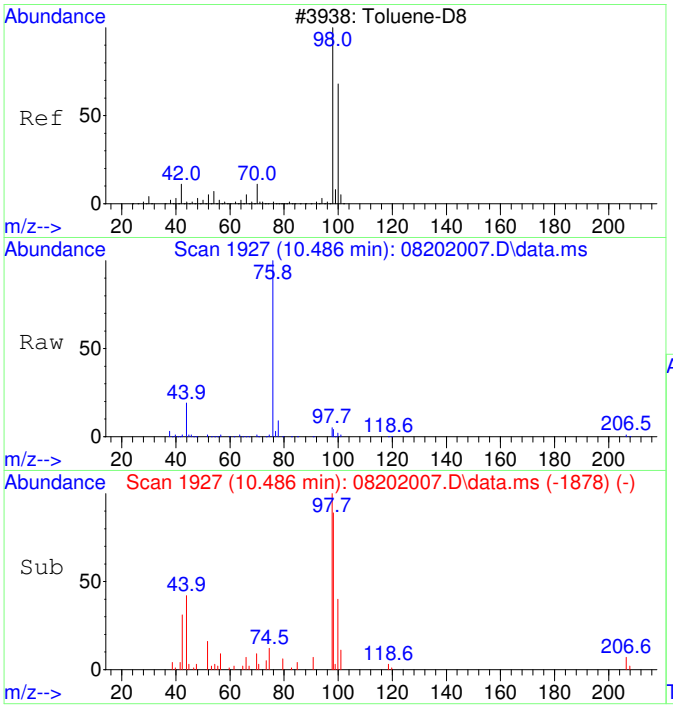


#35
Trichloroethene SCAN
Concen: 193.80 ug/L
RT: 8.584 min Scan# 1666
Delta R.T. 0.016 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

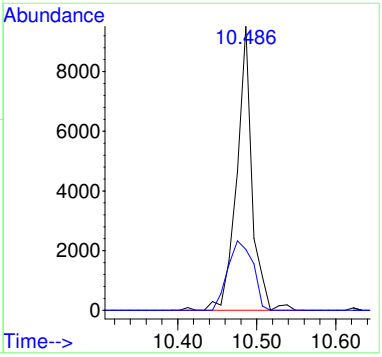


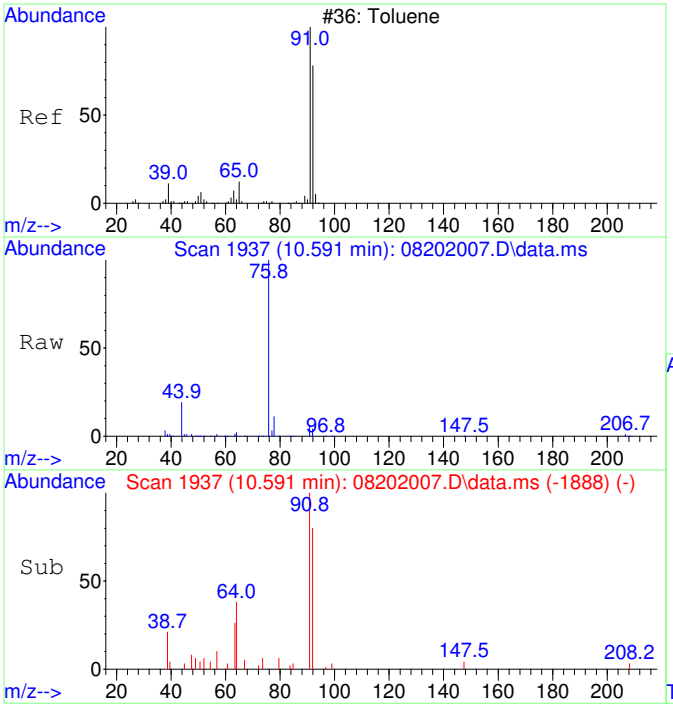


#36
Toluene-d8 SCAN
Concen: 194.45 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 98 Resp: 12748

Ion	Ratio	Lower	Upper
98	100		
100	40.3	40.0	100.0

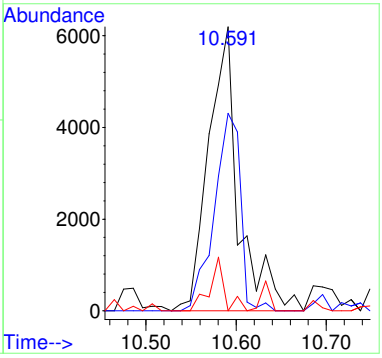


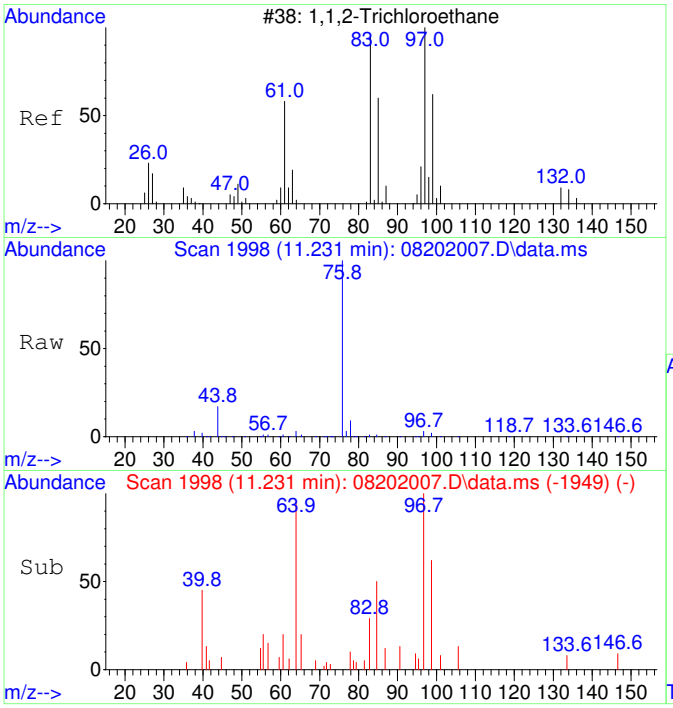


#37
Toluene SCAN
Concen: 171.17 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

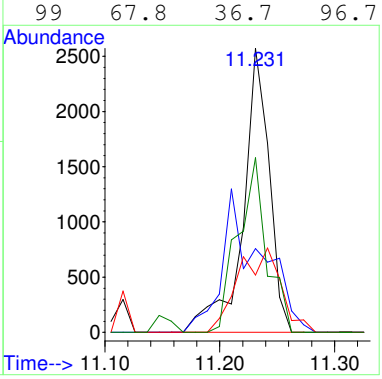


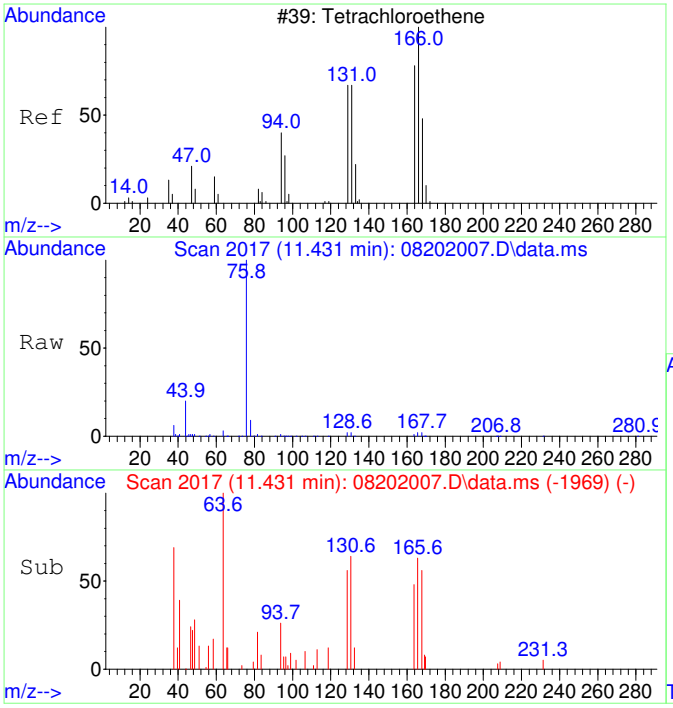


#38
1,1,2-Trichloroethane SCAN
Concen: 216.66 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

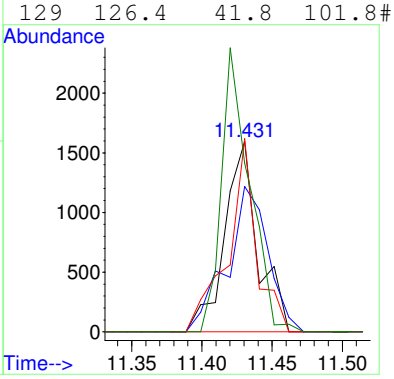


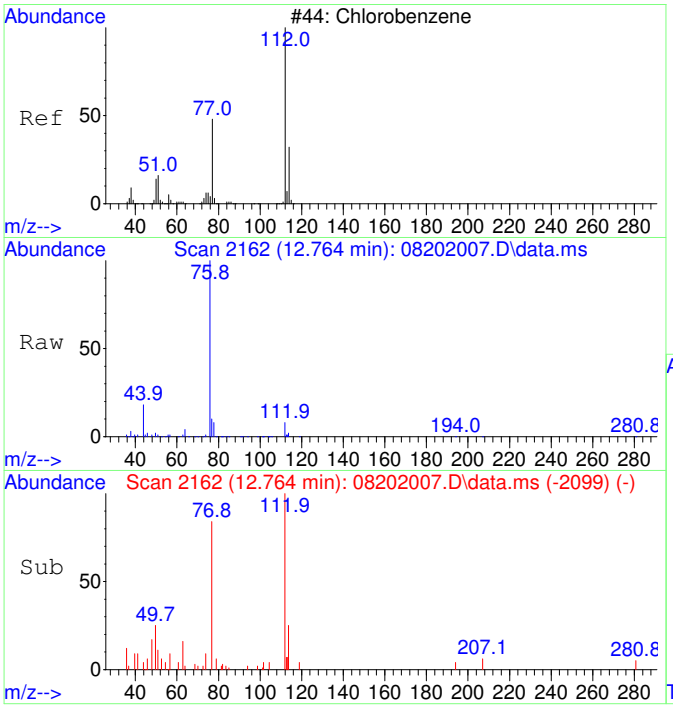


#39
Tetrachloroethene SCAN
Concen: 131.18 ug/L
RT: 11.431 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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#

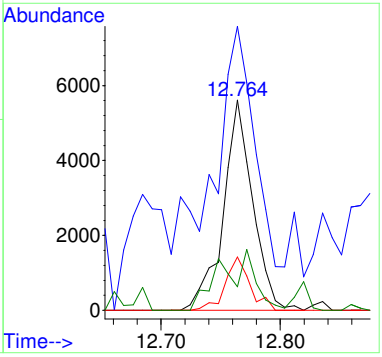


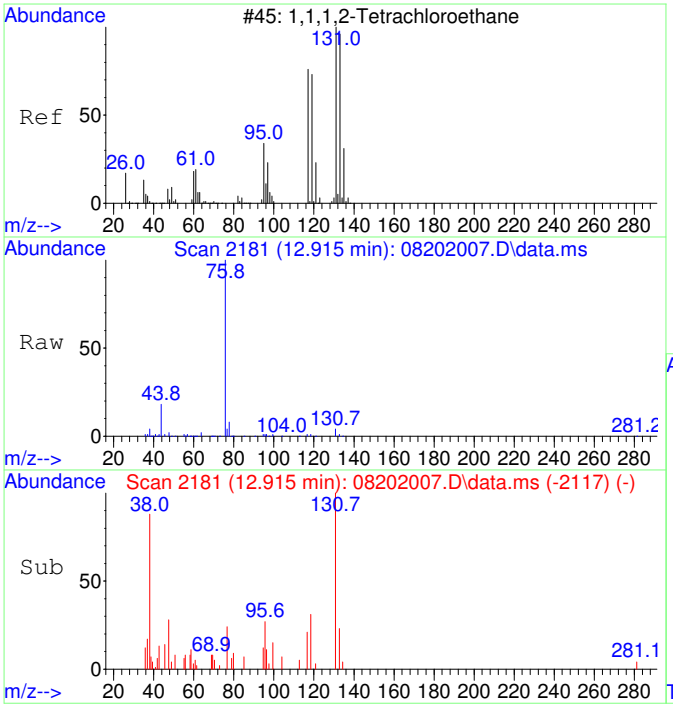


#40
Chlorobenzene SCAN
Concen: 169.04 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

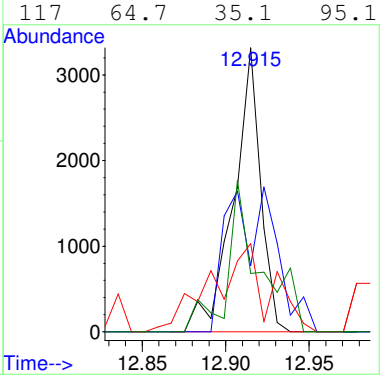


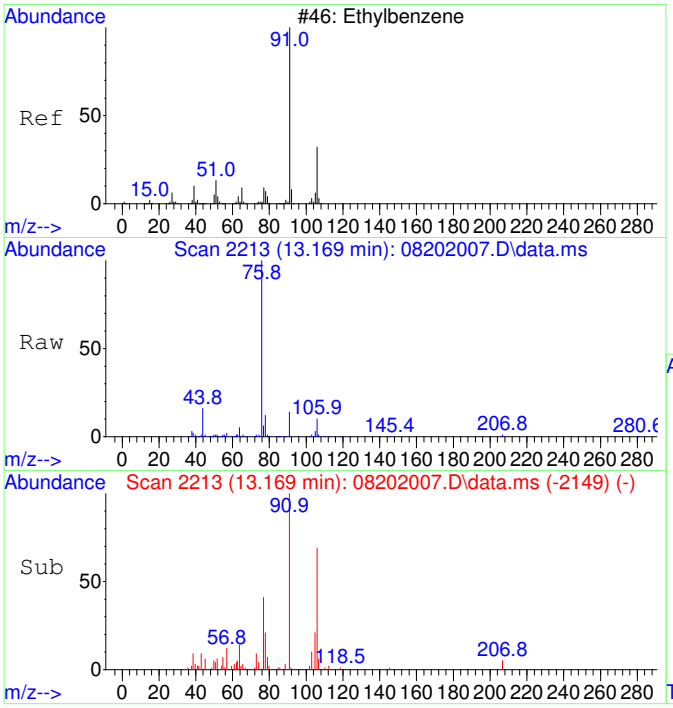


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 177.14 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

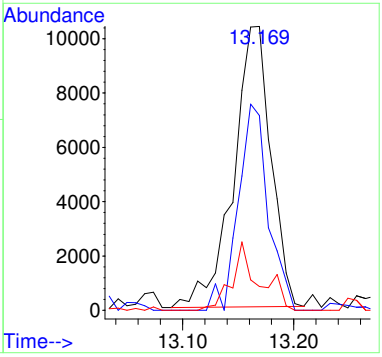


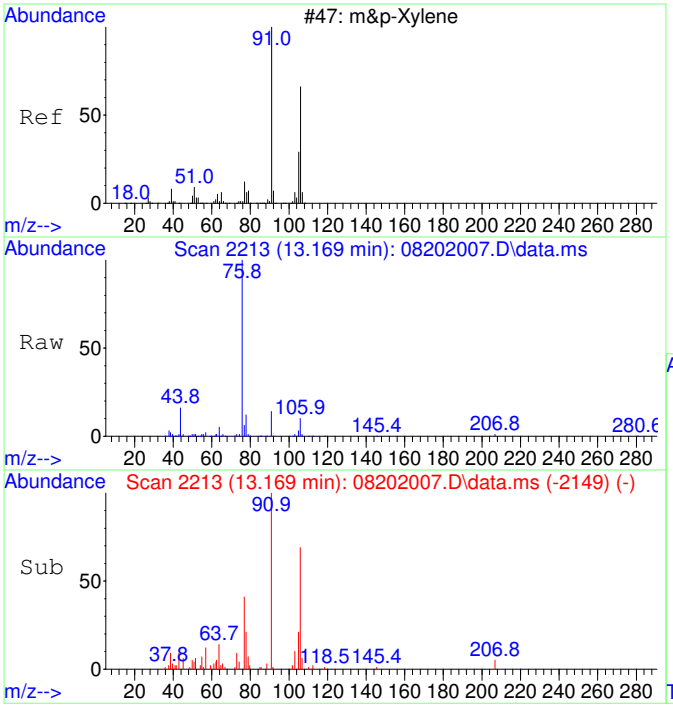


#42
Ethylbenzene SCAN
Concen: 158.20 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

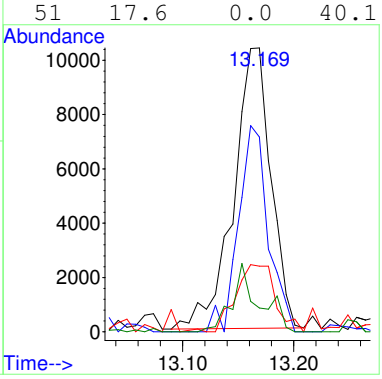


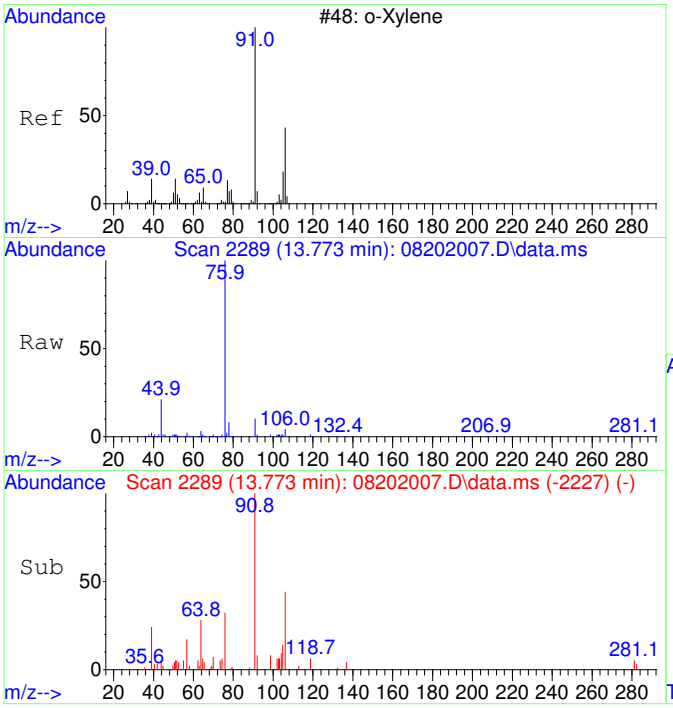


#43
m&p-Xylene SCAN
Concen: 158.20 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

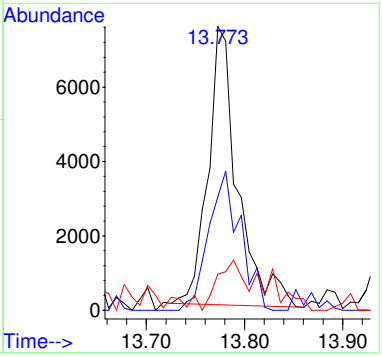


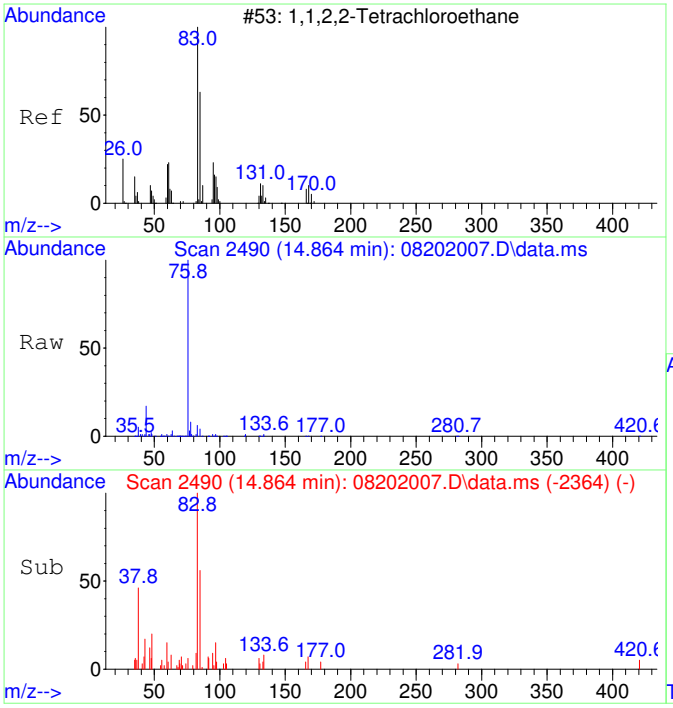


#44
o-Xylene SCAN
Concen: 190.48 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

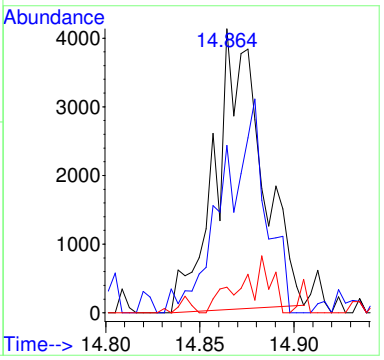


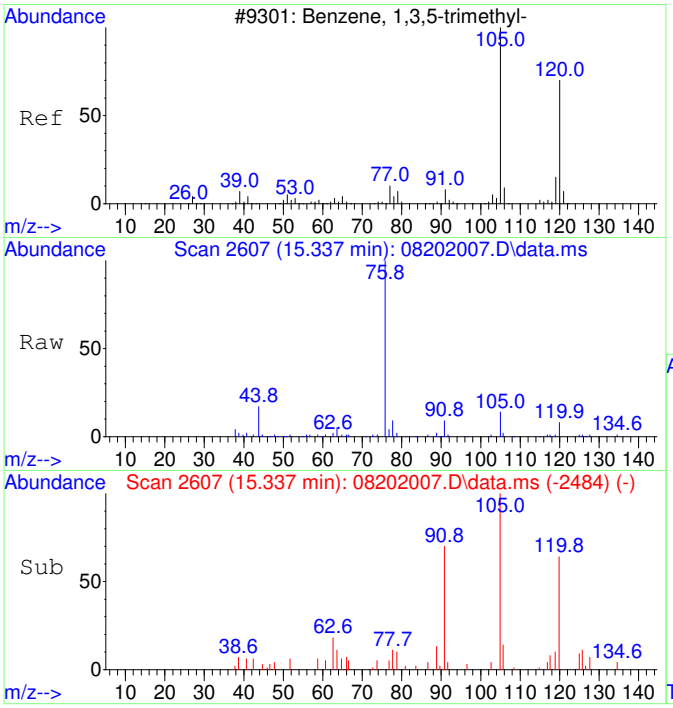


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 177.39 ug/L
RT: 14.864 min Scan# 2490
Delta R.T. -0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

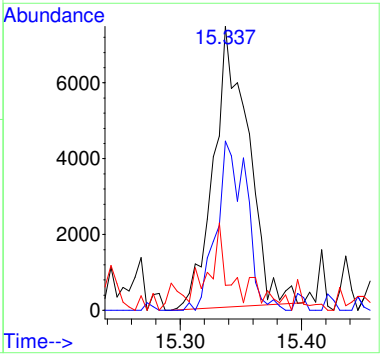


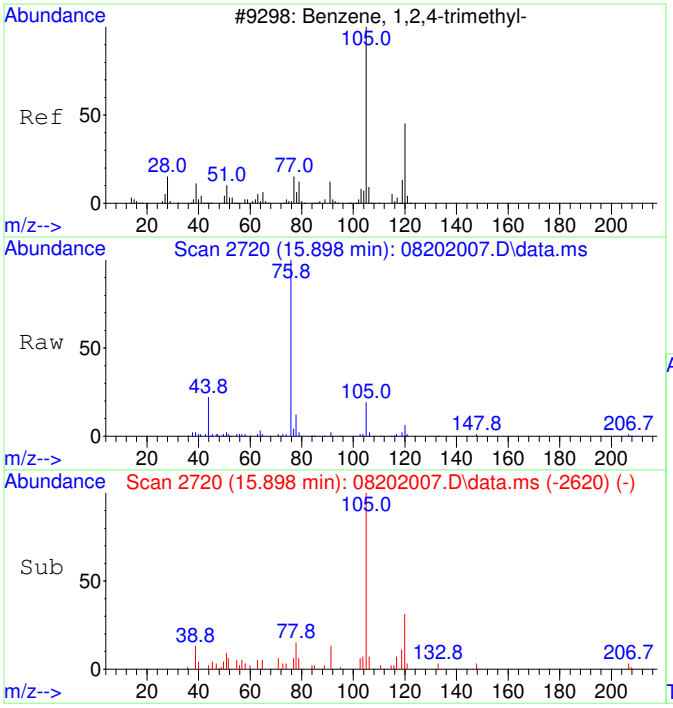


#46
1,3,5-Trimethylbenzene SCAN
Concen: 170.06 ug/L
RT: 15.337 min Scan# 2607
Delta R.T. -0.006 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

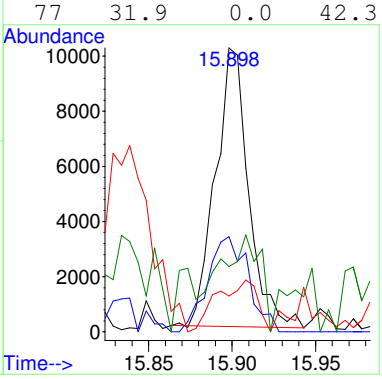


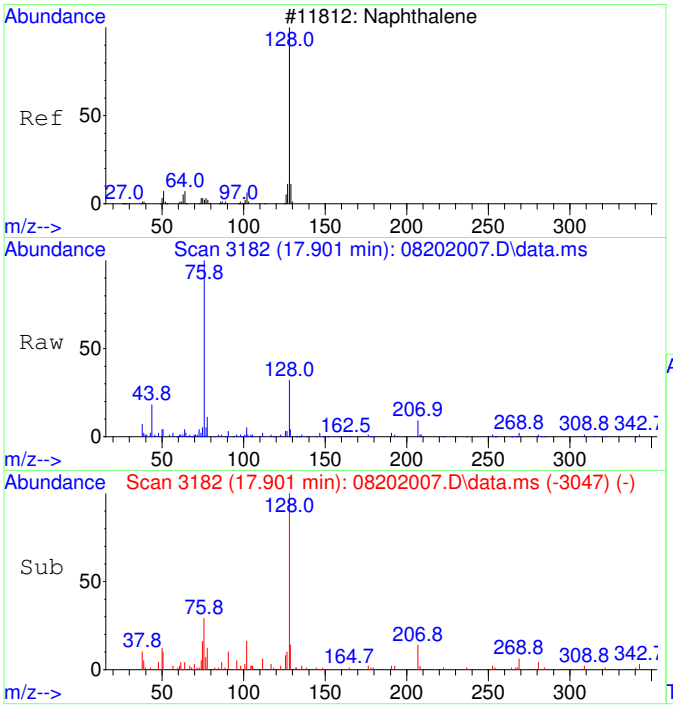


#47
1,2,4-Trimethylbenzene SCAN
Concen: 157.88 ug/L
RT: 15.898 min Scan# 2720
Delta R.T. -0.001 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

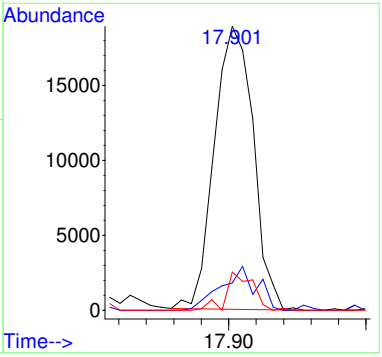


Table of Contents

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

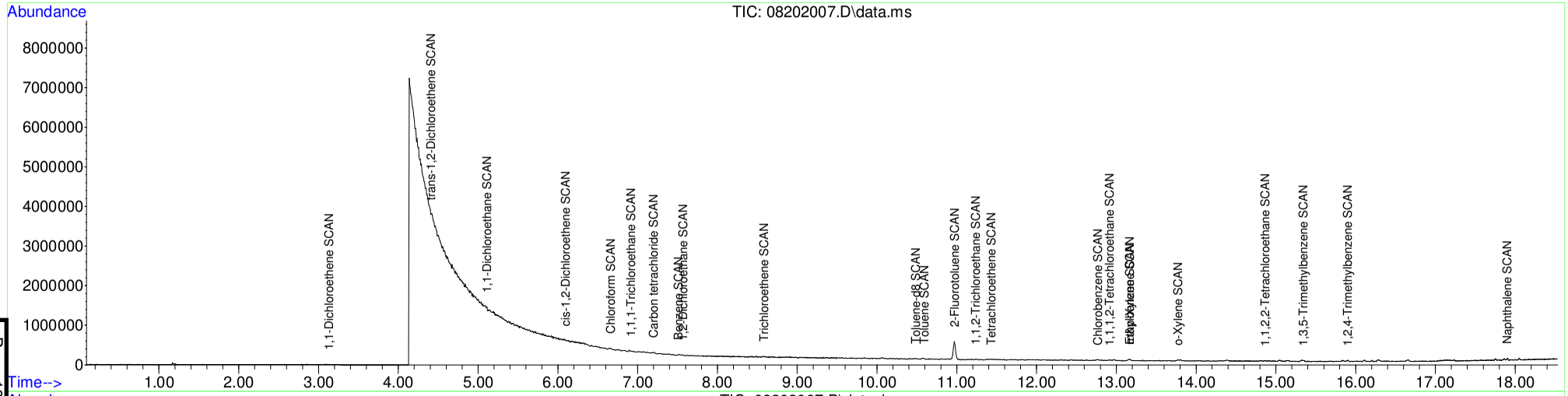
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	687675	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.477	98	18291	135.87	ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 2.72%#				
Target Compounds							Qvalue
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



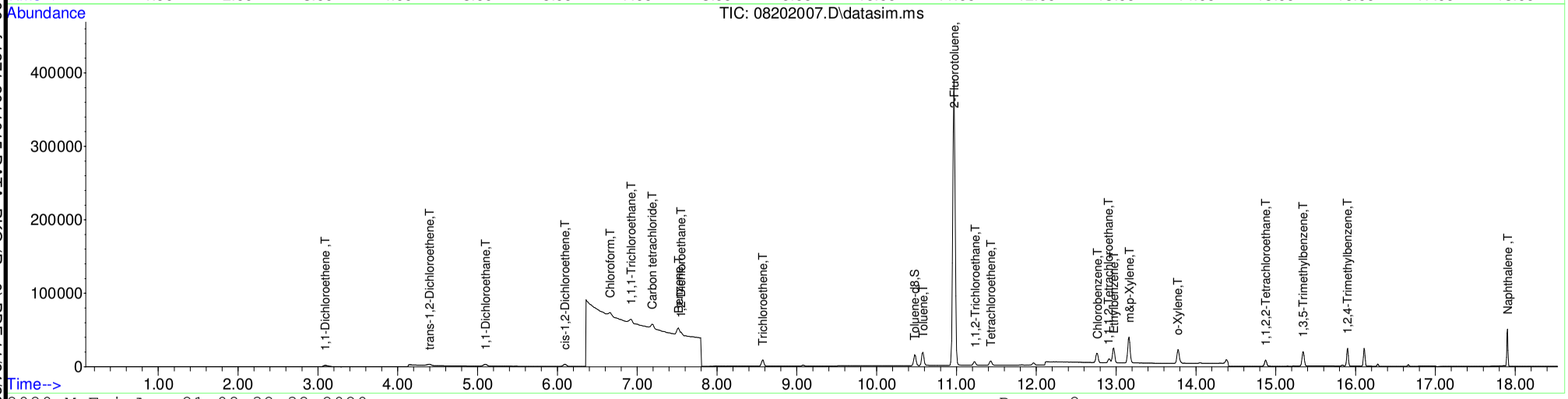
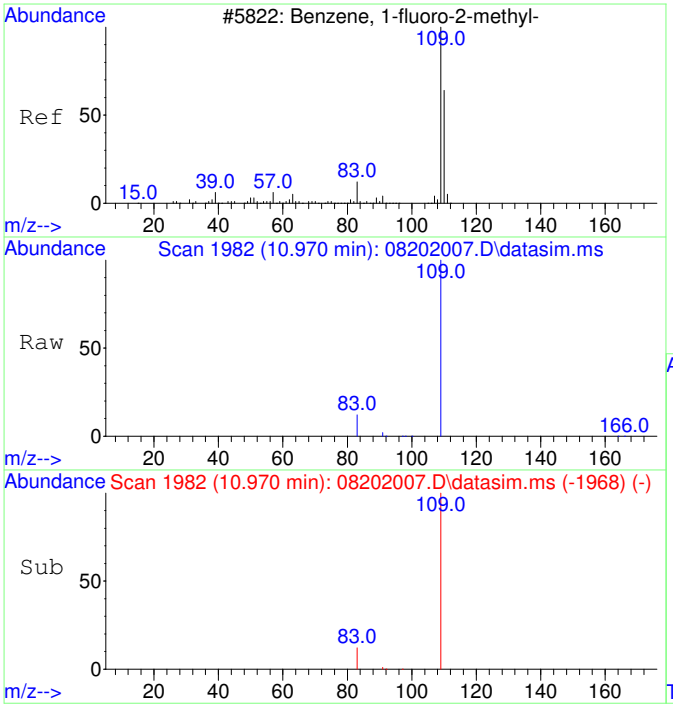


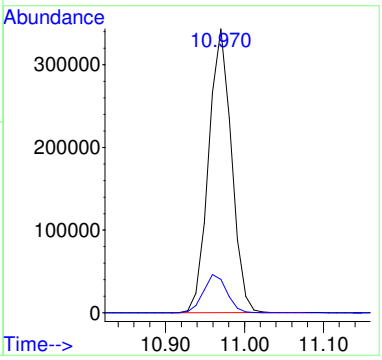
Table of Contents

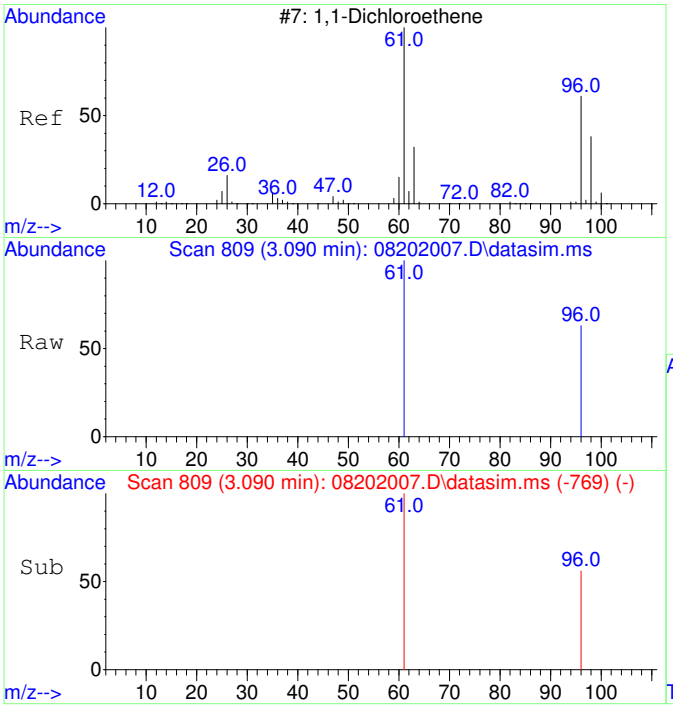


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:109 Resp: 687675

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

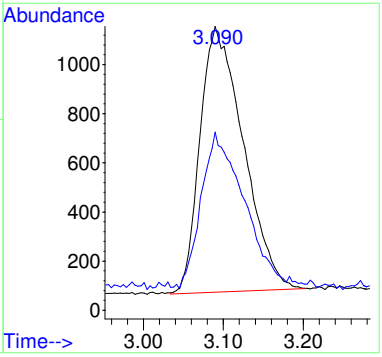


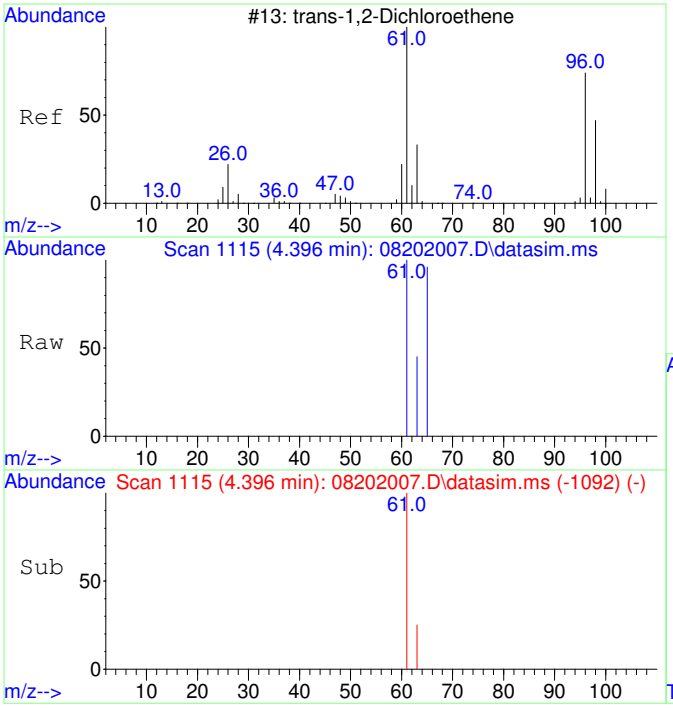


#2
1,1-Dichloroethene
Concen: 134.88 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 4078

Ion	Ratio	Lower	Upper
61	100		
96	66.0	37.2	97.2

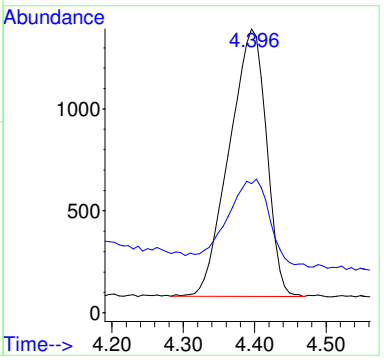


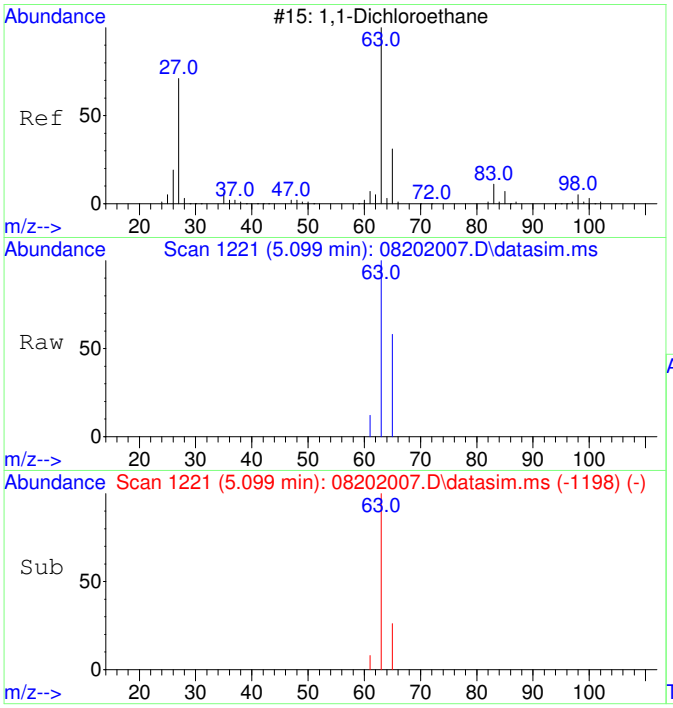


#3
trans-1,2-Dichloroethene
Concen: 149.50 ug/L
RT: 4.396 min Scan# 1115
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 4743

Ion	Ratio	Lower	Upper
61	100		
63	39.2	2.4	62.4

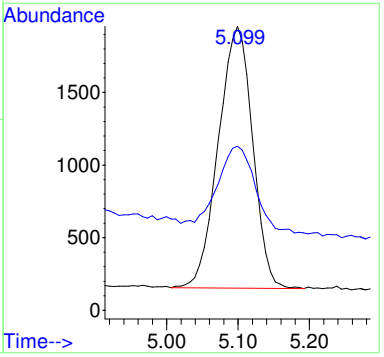


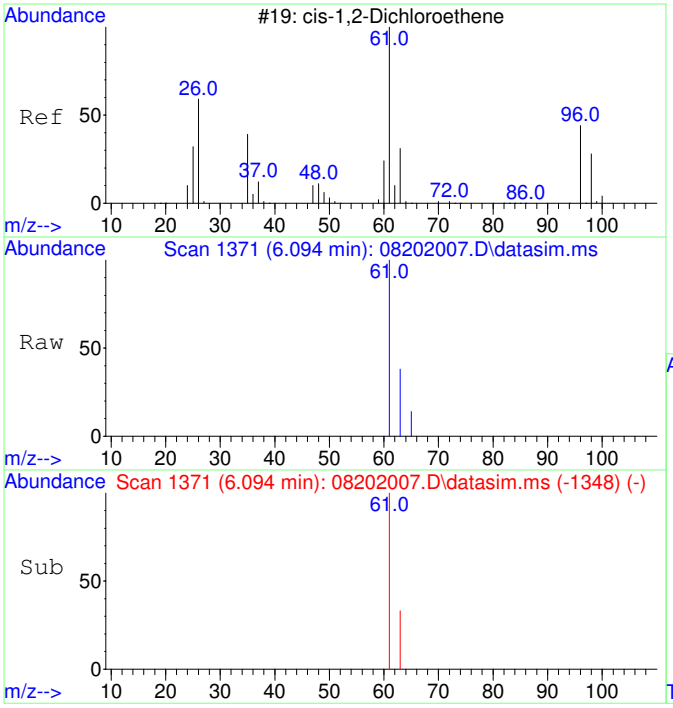


#4
1,1-Dichloroethane
Concen: 152.35 ug/L
RT: 5.099 min Scan# 1221
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 63 Resp: 6017

Ion	Ratio	Lower	Upper
63	100		
65	39.7	1.8	61.8

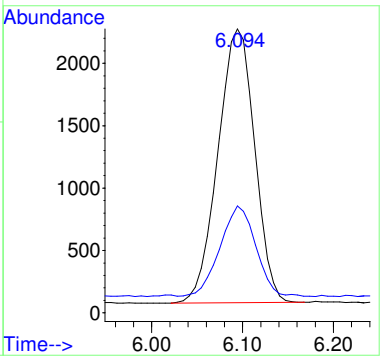


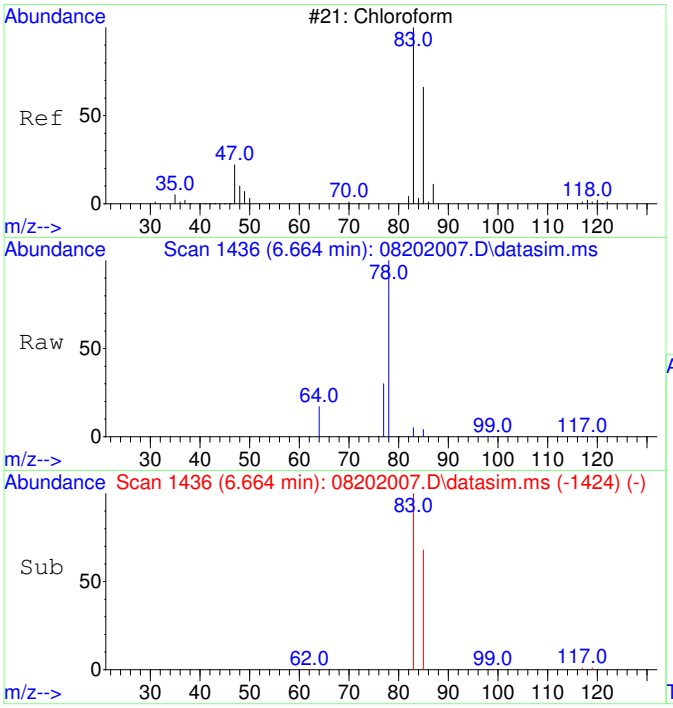


#5
cis-1,2-Dichloroethene
Concen: 148.27 ug/L
RT: 6.094 min Scan# 1371
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 61 Resp: 6181

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

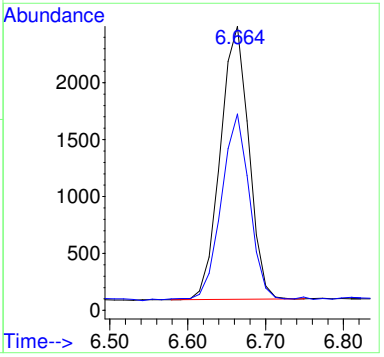


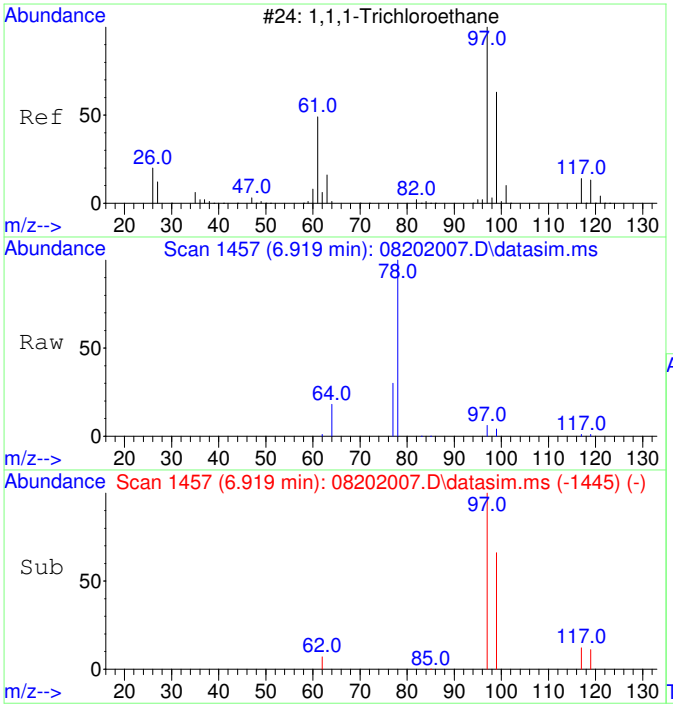


#6
Chloroform
Concen: 142.98 ug/L
RT: 6.664 min Scan# 1436
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 83 Resp: 6101

Ion	Ratio	Lower	Upper
83	100		
85	69.0	35.1	95.1

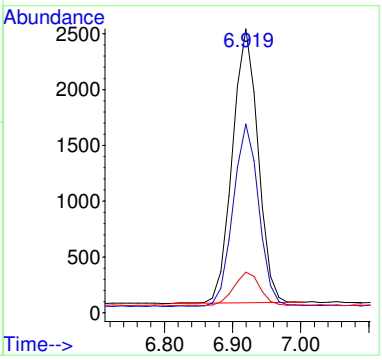


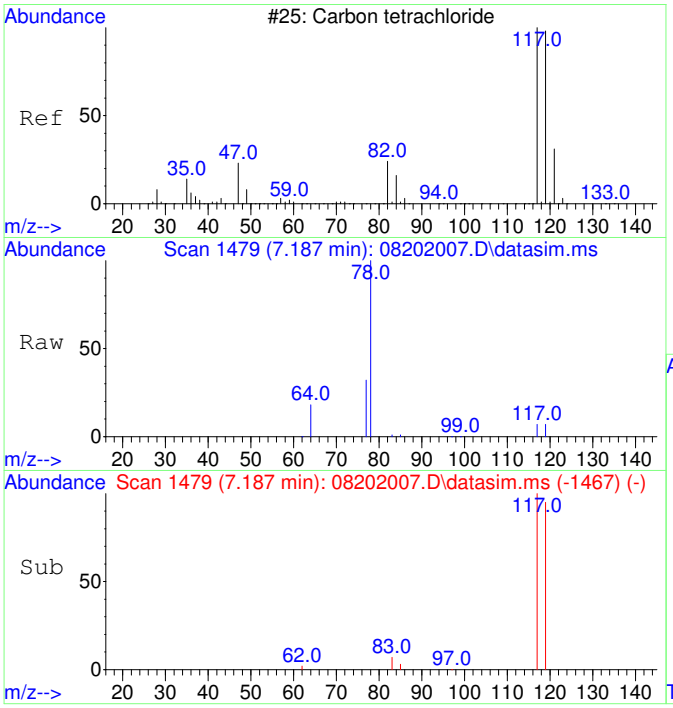


#7
1,1,1-Trichloroethane
Concen: 137.55 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

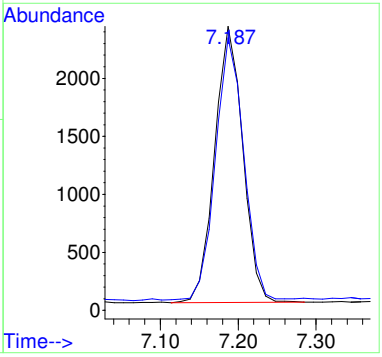


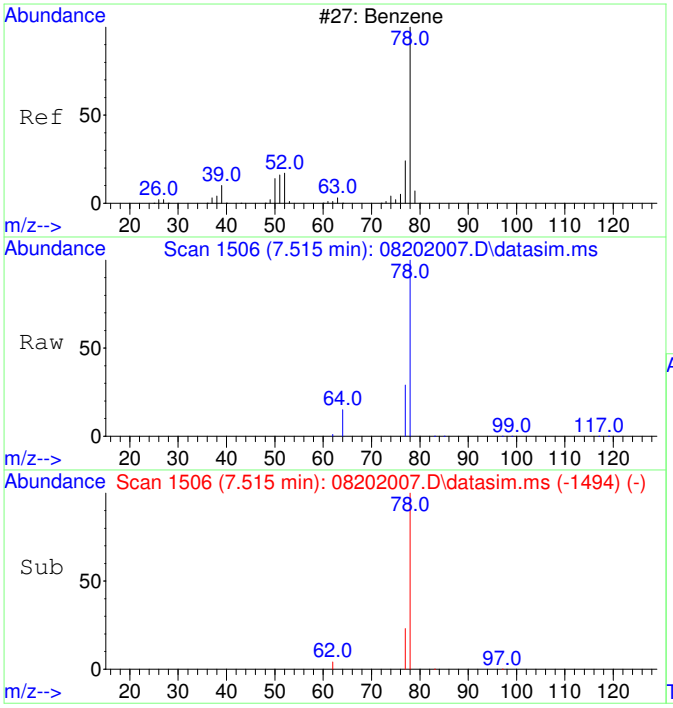


#8
Carbon tetrachloride
Concen: 137.06 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:117 Resp: 5978

Ion	Ratio	Lower	Upper
117	100		
119	94.6	66.4	126.4

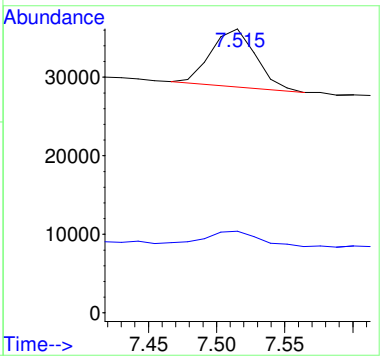


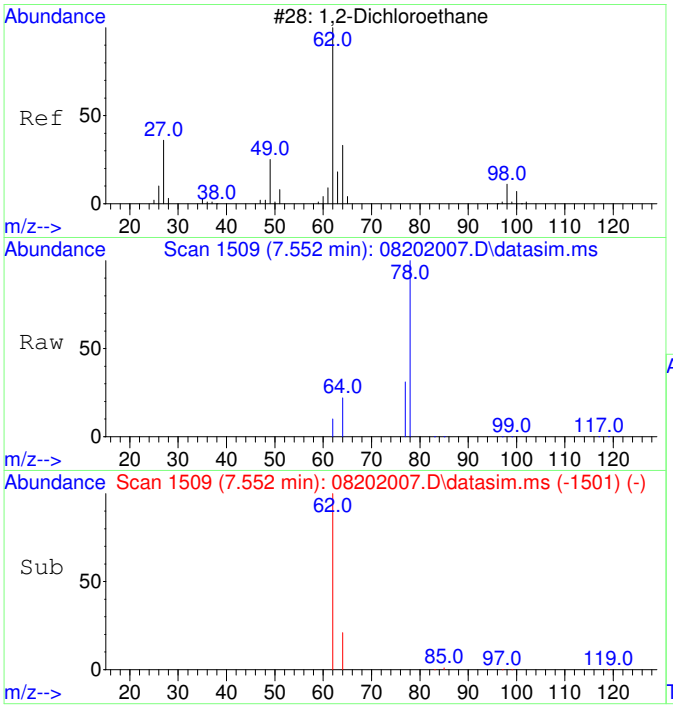


#9
Benzene
Concen: 140.33 ug/L
RT: 7.515 min Scan# 1506
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 78 Resp: 16396

Ion	Ratio	Lower	Upper
78	100		
77	35.6	0.0	53.2

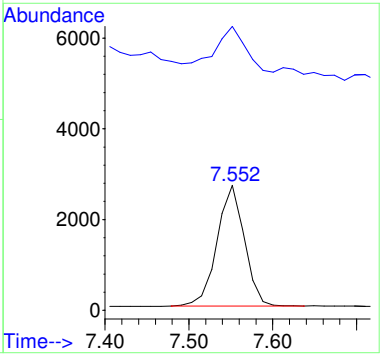


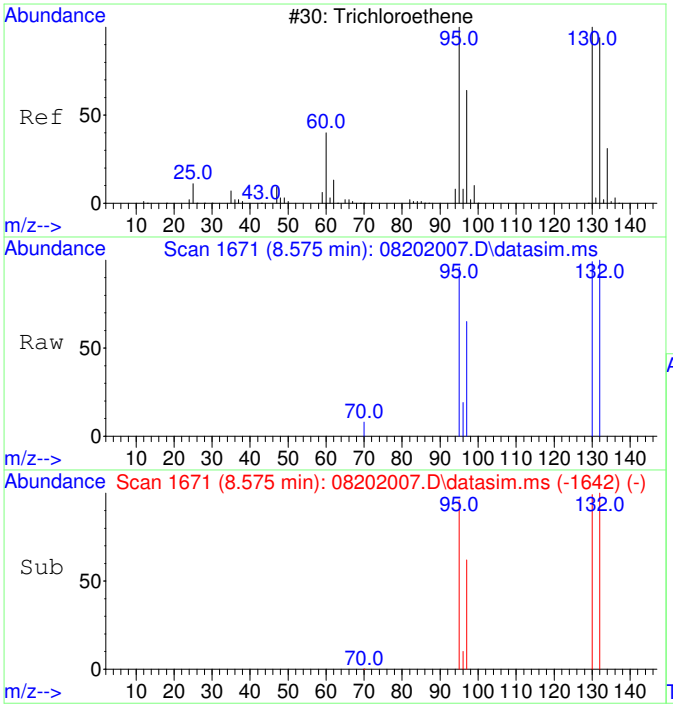


#10
1,2-Dichloroethane
Concen: 144.21 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 62 Resp: 6015

Ion	Ratio	Lower	Upper
62	100		
64	43.6	2.3	62.3

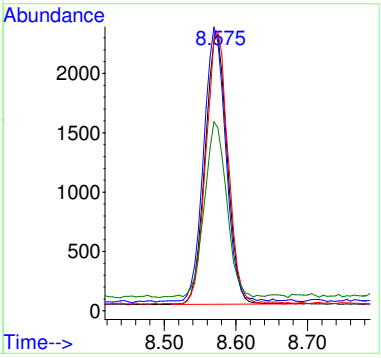


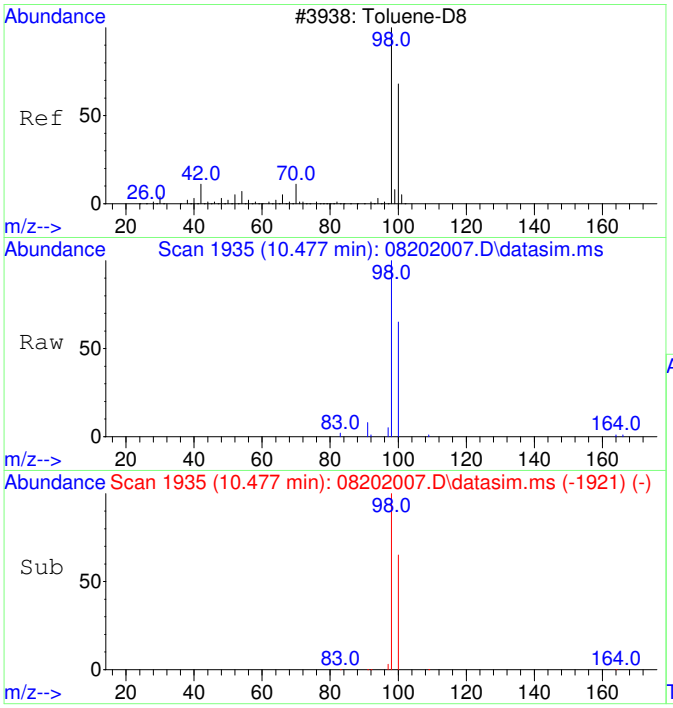


#11
Trichloroethene
Concen: 138.83 ug/L
RT: 8.575 min Scan# 1671
Delta R.T. 0.005 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

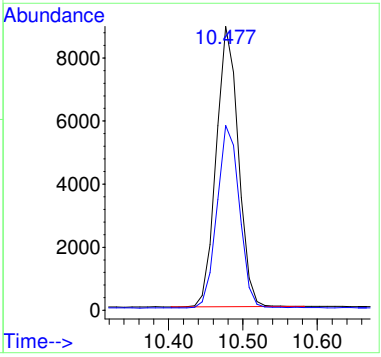


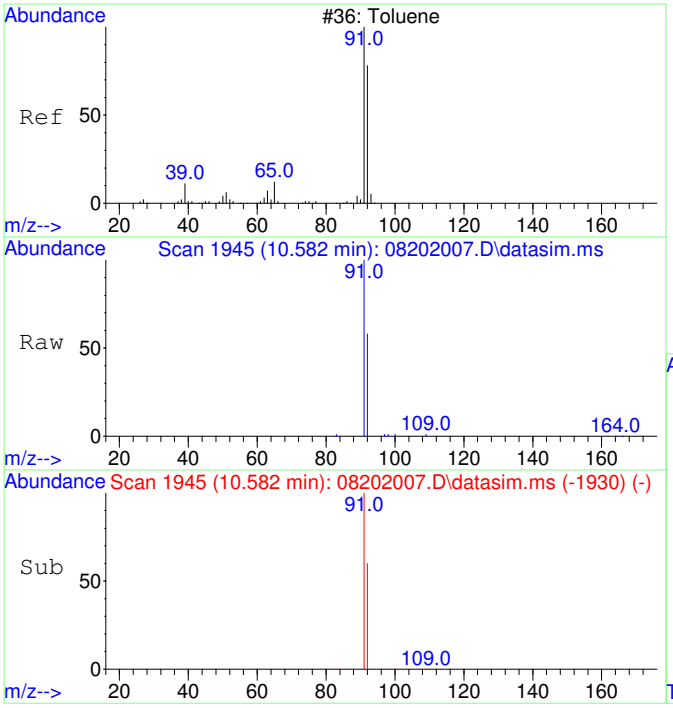


#12
Toluene-d8
Concen: 135.87 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 98 Resp: 18291

Ion	Ratio	Lower	Upper
98	100		
100	65.9	37.1	97.1

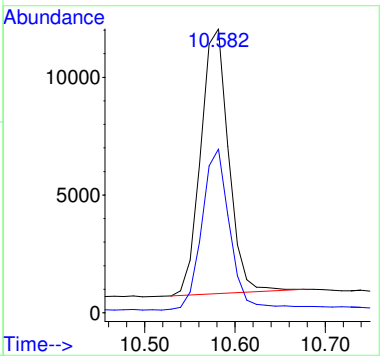


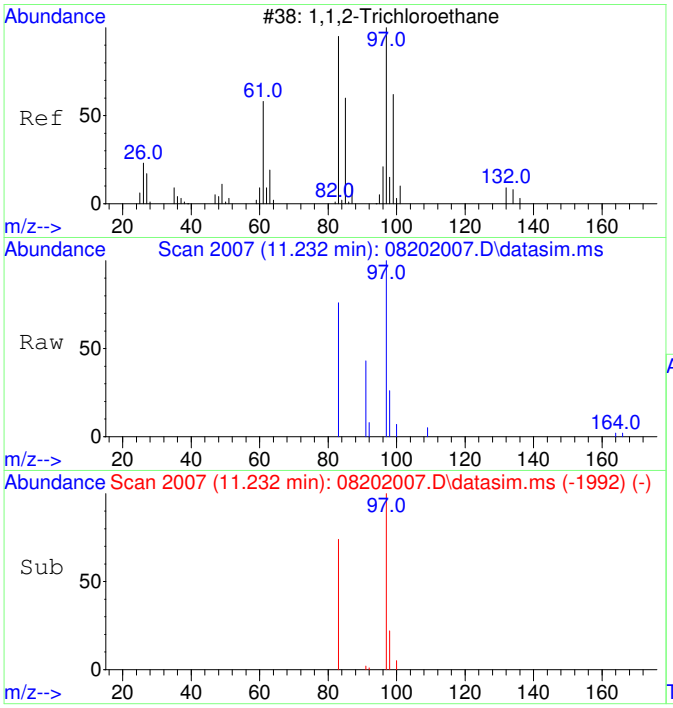


#13
Toluene
Concen: 141.38 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 24264

Ion	Ratio	Lower	Upper
91	100		
92	61.5	29.9	89.9

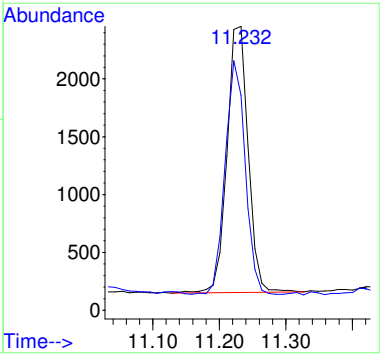


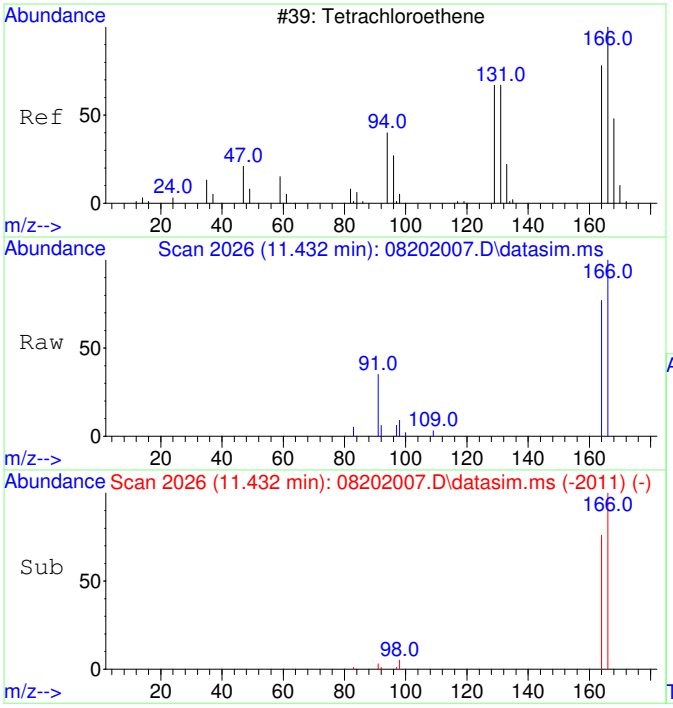


#14
1,1,2-Trichloroethane
Concen: 135.38 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 97 Resp: 5063

Ion	Ratio	Lower	Upper
97	100		
83	83.5	51.2	111.2

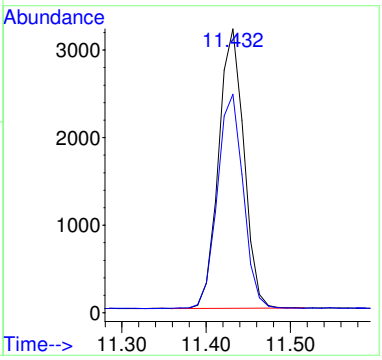


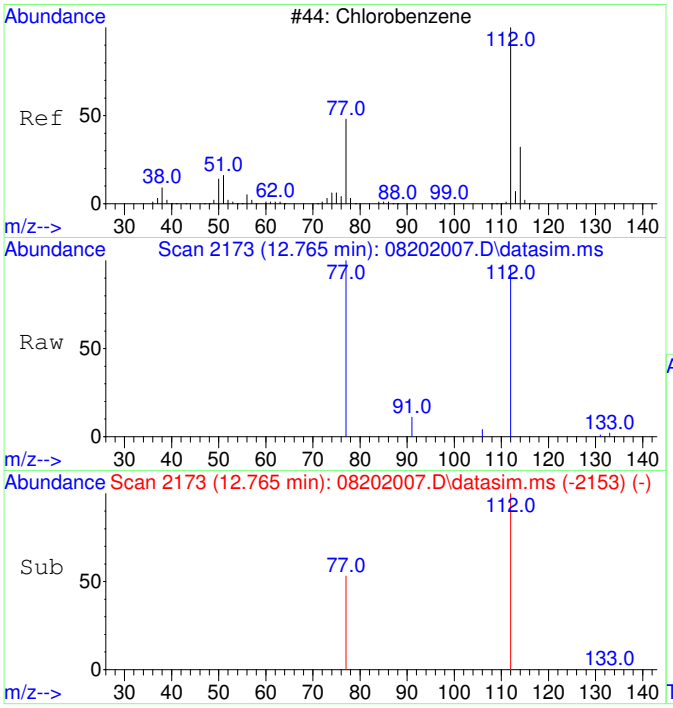


#15
Tetrachloroethene
Concen: 133.89 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:166 Resp: 6650

Ion	Ratio	Lower	Upper
166	100		
164	78.5	47.8	107.8

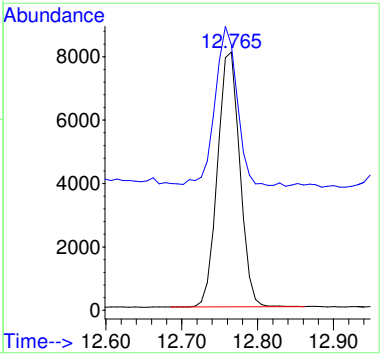


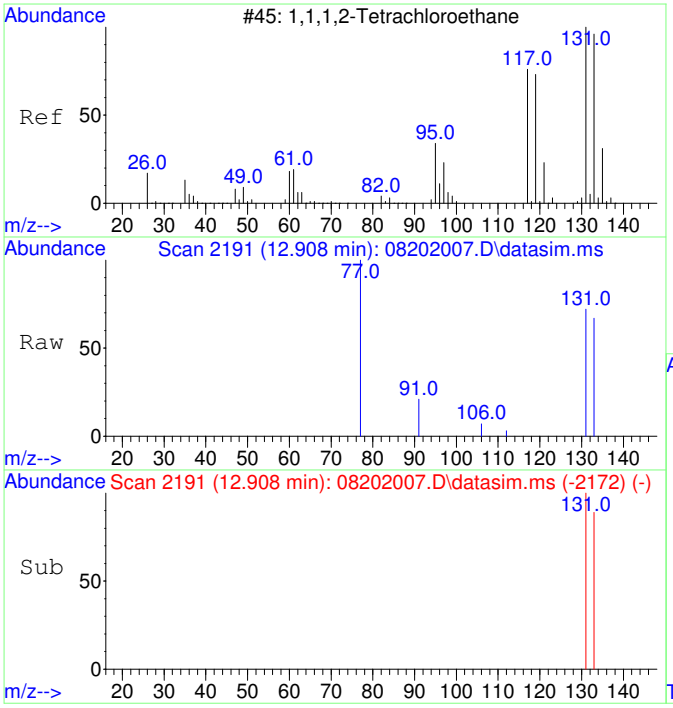


#16
Chlorobenzene
Concen: 133.98 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:112 Resp: 16465

Ion	Ratio	Lower	Upper
112	100		
77	60.1	23.6	83.6

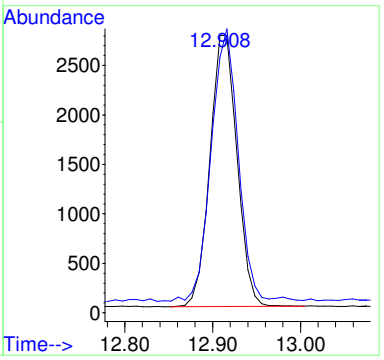


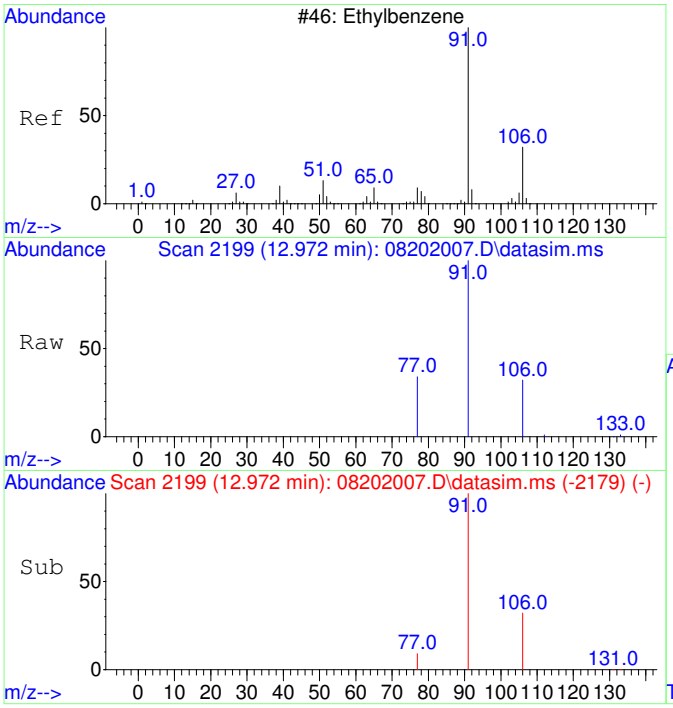


#17
1,1,1,2-Tetrachloroethane
Concen: 133.44 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:131 Resp: 5876

Ion	Ratio	Lower	Upper
131	100		
133	97.8	66.3	126.3

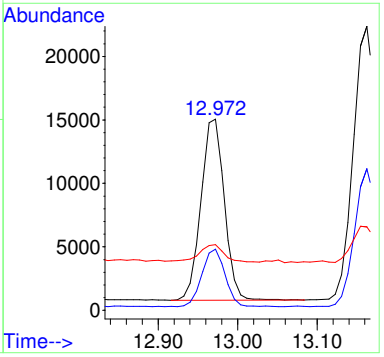


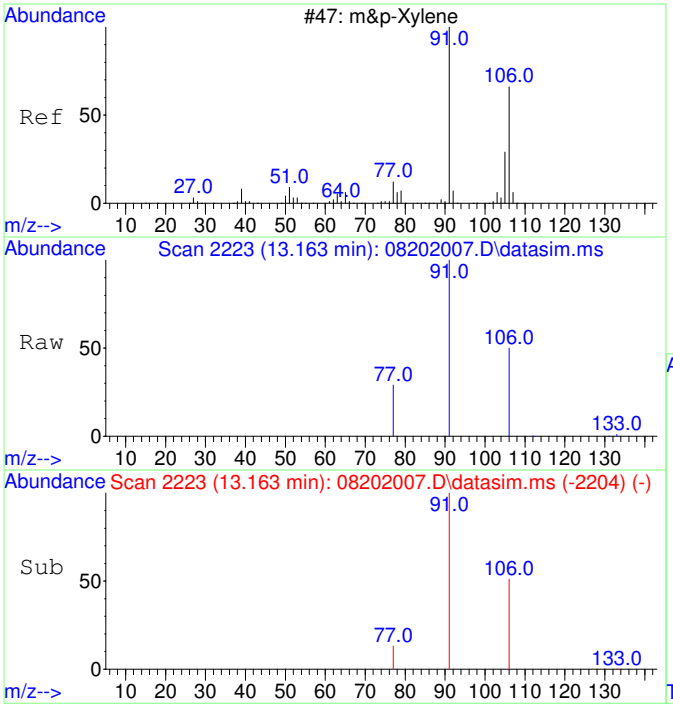


#18
Ethylbenzene
Concen: 139.19 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

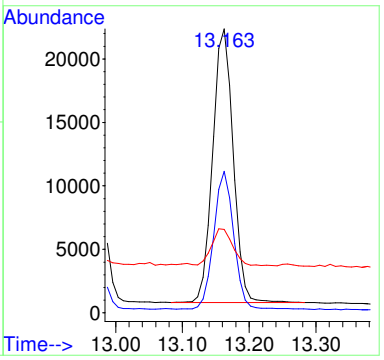


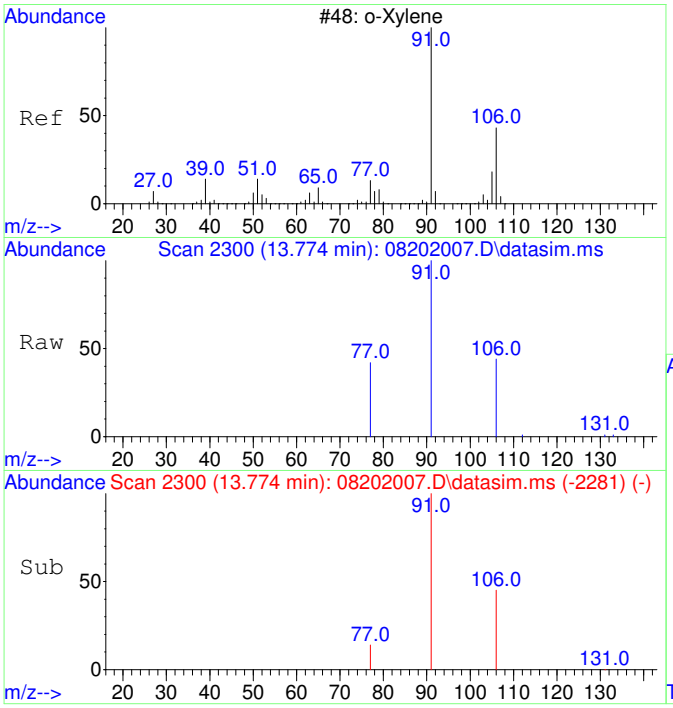


#19
m&p-Xylene
Concen: 281.41 ug/L
RT: 13.163 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

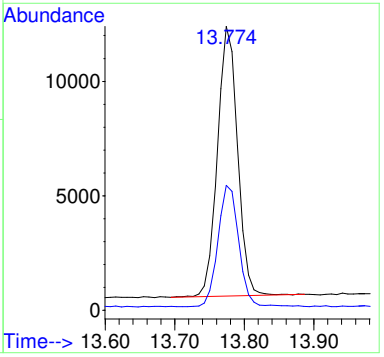


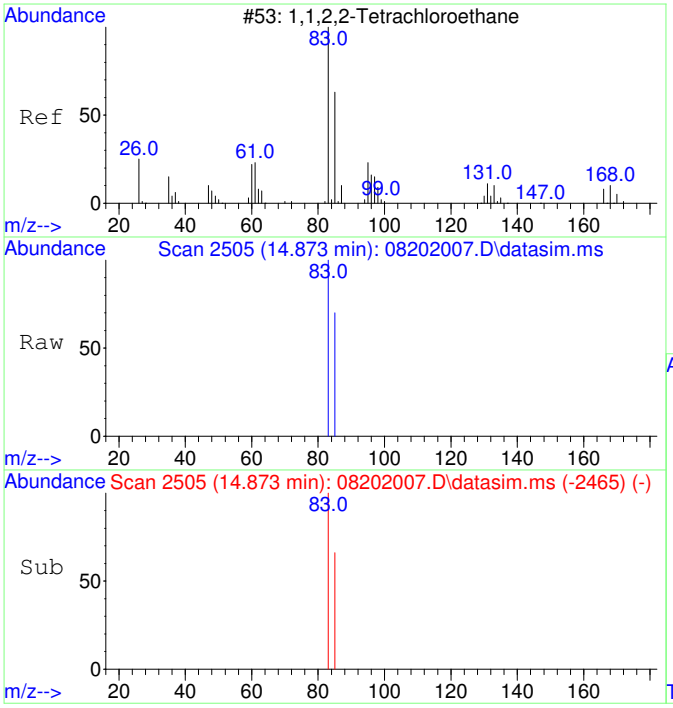


#20
o-Xylene
Concen: 135.47 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 91 Resp: 23631

Ion	Ratio	Lower	Upper
91	100		
106	46.7	19.2	79.2

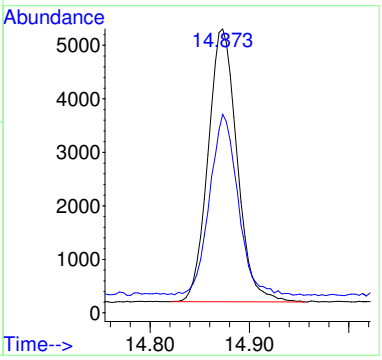


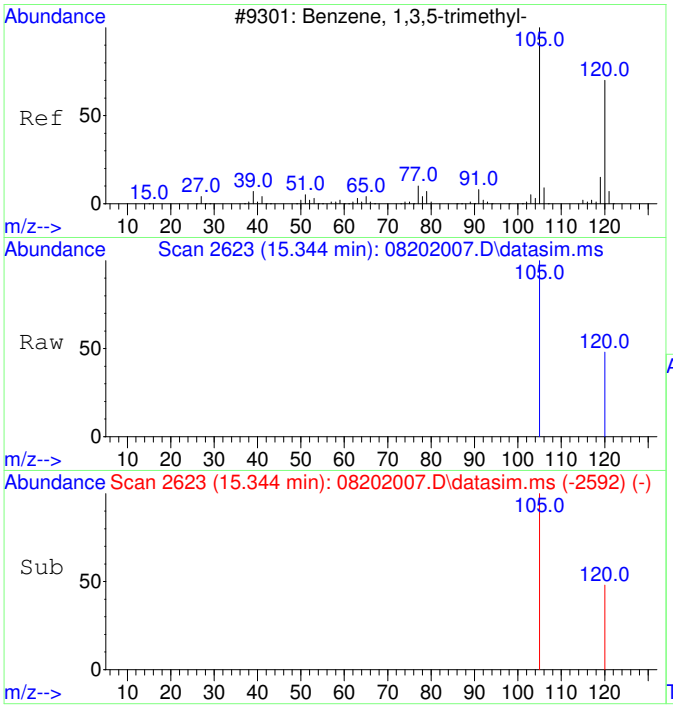


#21
1,1,2,2-Tetrachloroethane
Concen: 133.61 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 83 Resp: 10329

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.8	94.8

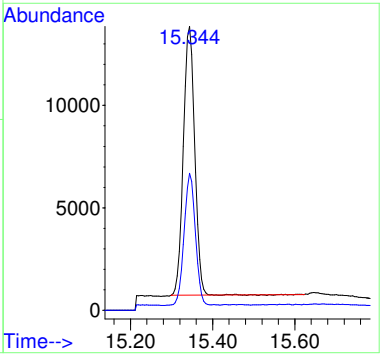


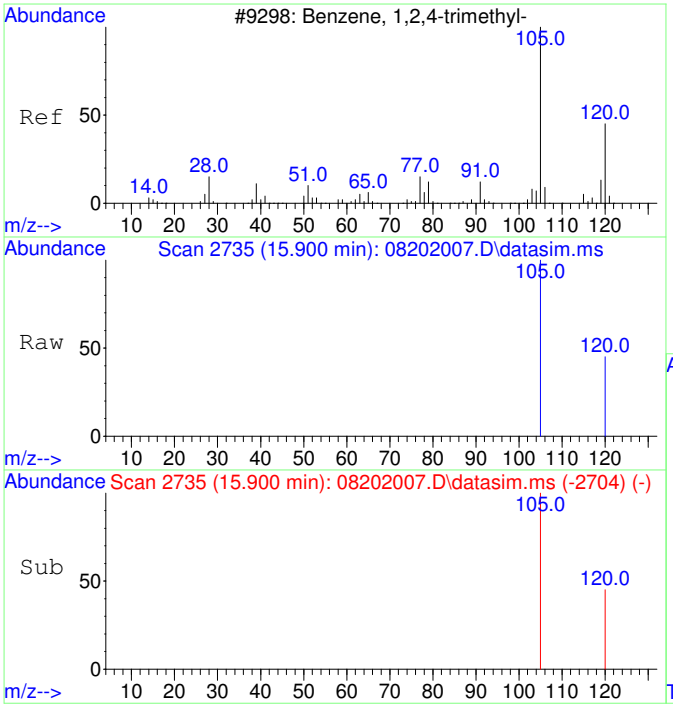


#22
1,3,5-Trimethylbenzene
Concen: 134.37 ug/L
RT: 15.344 min Scan# 2623
Delta R.T. -0.001 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:105 Resp: 24949

Ion	Ratio	Lower	Upper
105	100		
120	48.8	21.1	81.1

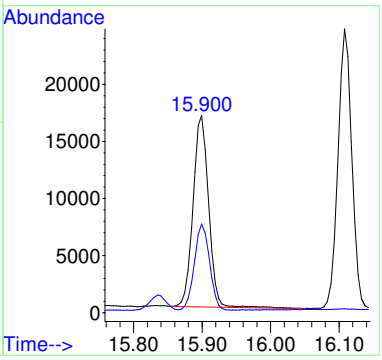


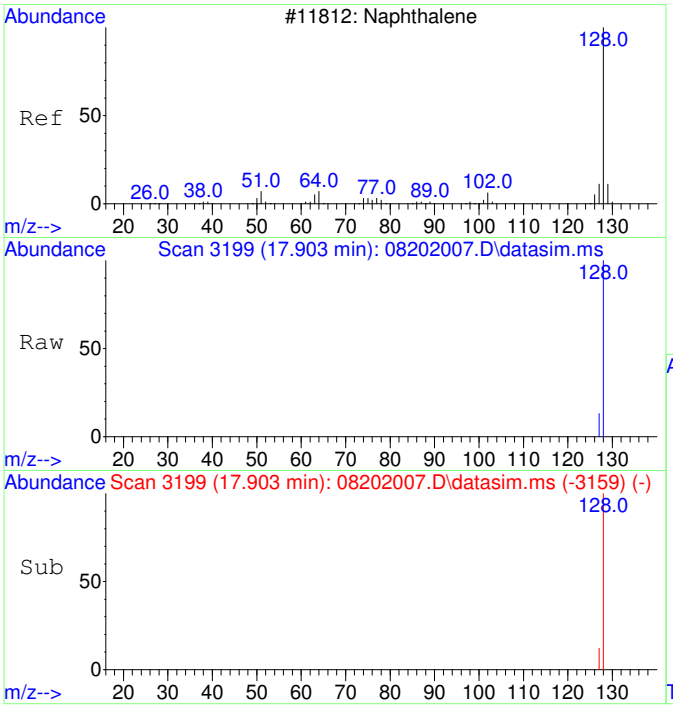


#23
1,2,4-Trimethylbenzene
Concen: 137.33 ug/L
RT: 15.900 min Scan# 2735
Delta R.T. 0.004 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:105 Resp: 26485

Ion	Ratio	Lower	Upper
105	100		
120	43.4	17.2	77.2

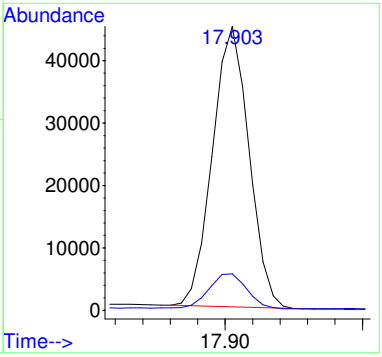


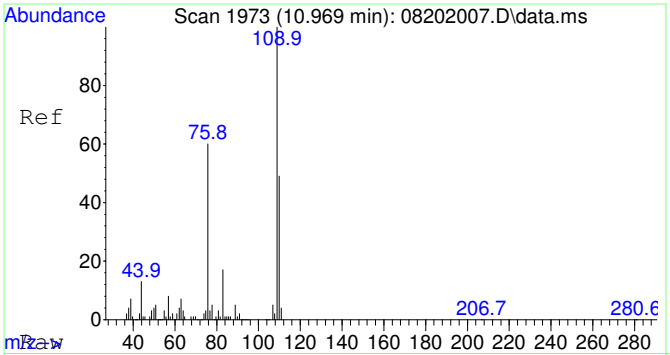


#24
Naphthalene
Concen: 135.77 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:128 Resp: 41384

Ion	Ratio	Lower	Upper
128	100		
127	12.6	0.0	42.5

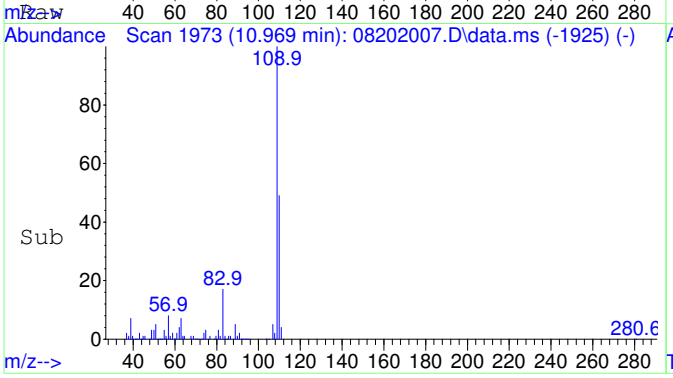


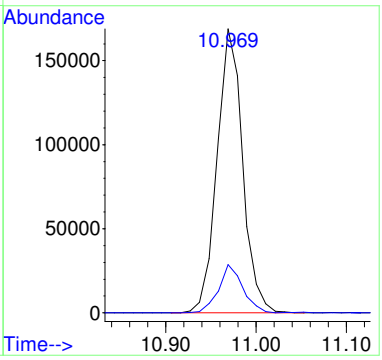


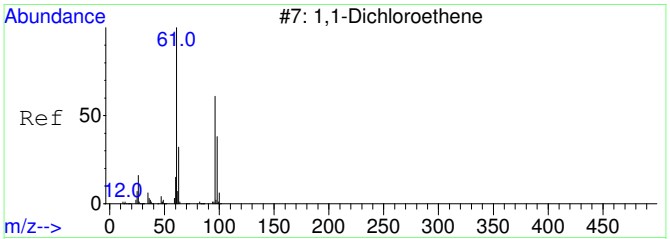
#25
2-Fluorotoluene SCAN
Concen: 4966.84 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion:109 Resp: 332955

Ion	Ratio	Lower	Upper
109	100		
83	15.9	0.0	43.8



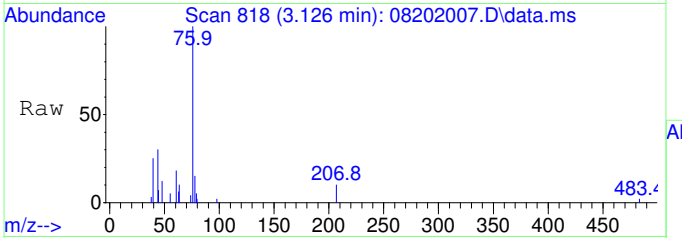


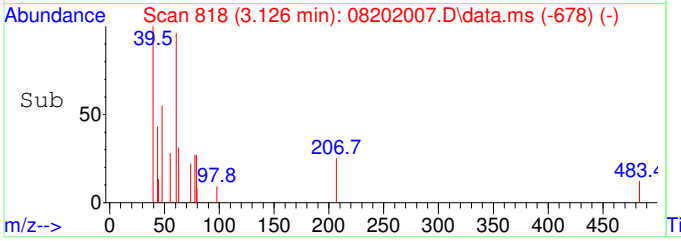


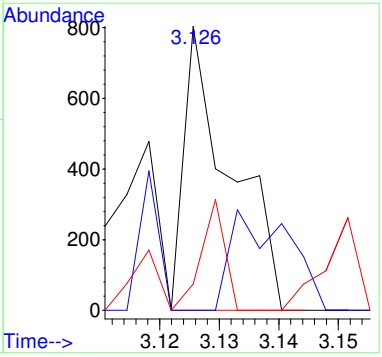
#26
1,1-Dichloroethene SCAN
Concen: 30.49 ug/L
RT: 3.126 min Scan# 818
Delta R.T. 0.019 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

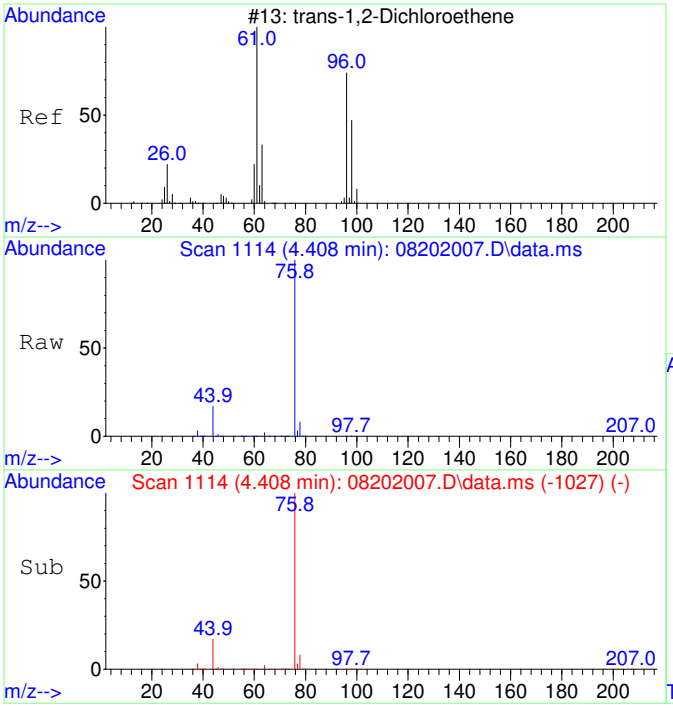
Tgt Ion: 61 Resp: 434

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





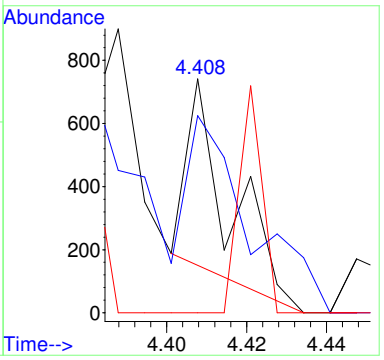


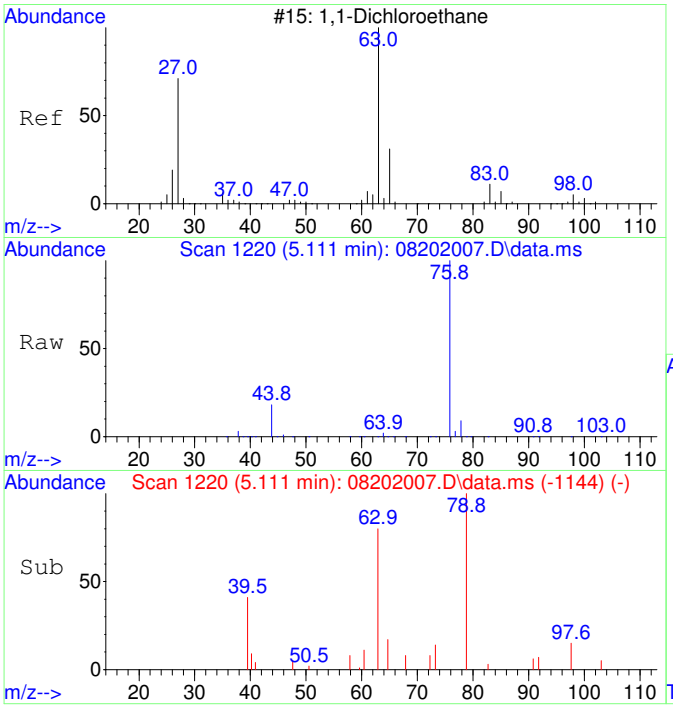


#27
trans-1,2-Dichloroethene SCAN
Concen: 22.42 ug/L
RT: 4.408 min Scan# 1114
Delta R.T. 0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

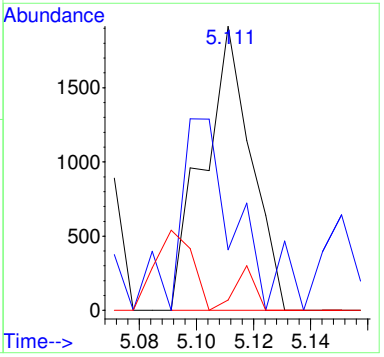


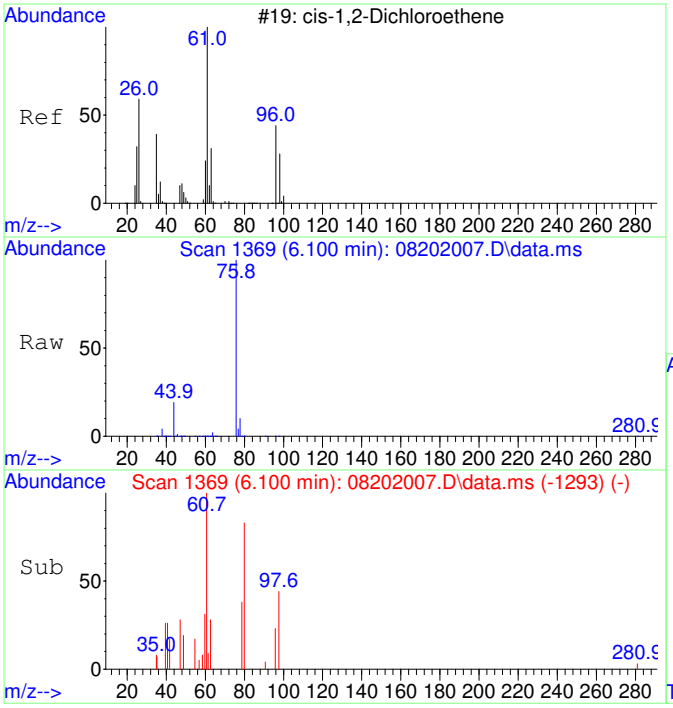


#28
1,1-Dichloroethane SCAN
Concen: 109.38 ug/L
RT: 5.111 min Scan# 1220
Delta R.T. 0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

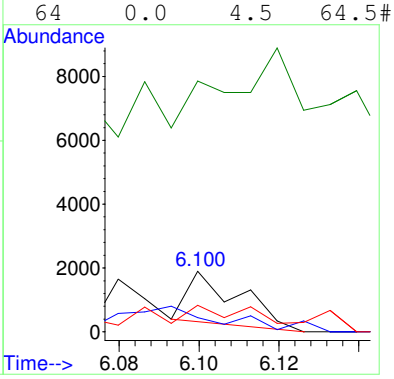


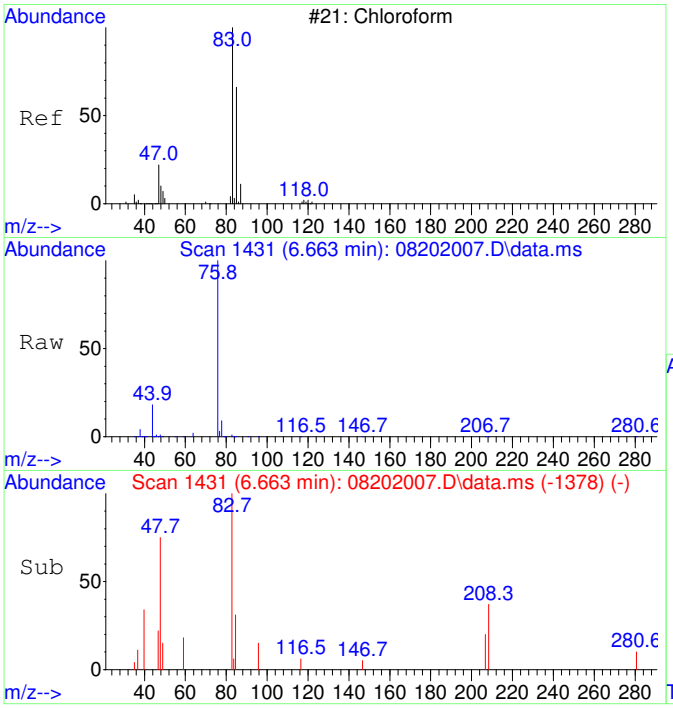


#29
cis-1,2-Dichloroethene SCAN
Concen: 63.68 ug/L
RT: 6.100 min Scan# 1369
Delta R.T. 0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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#

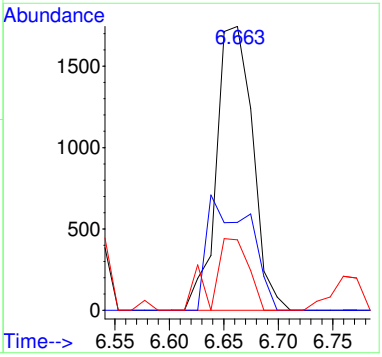


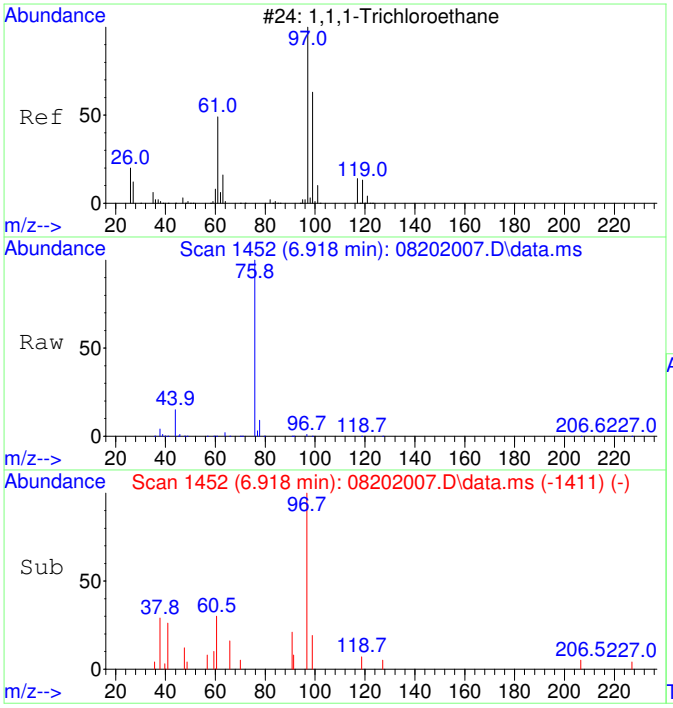


#30
Chloroform SCAN
Concen: 171.15 ug/L
RT: 6.663 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

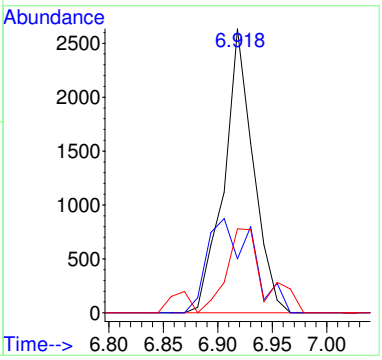


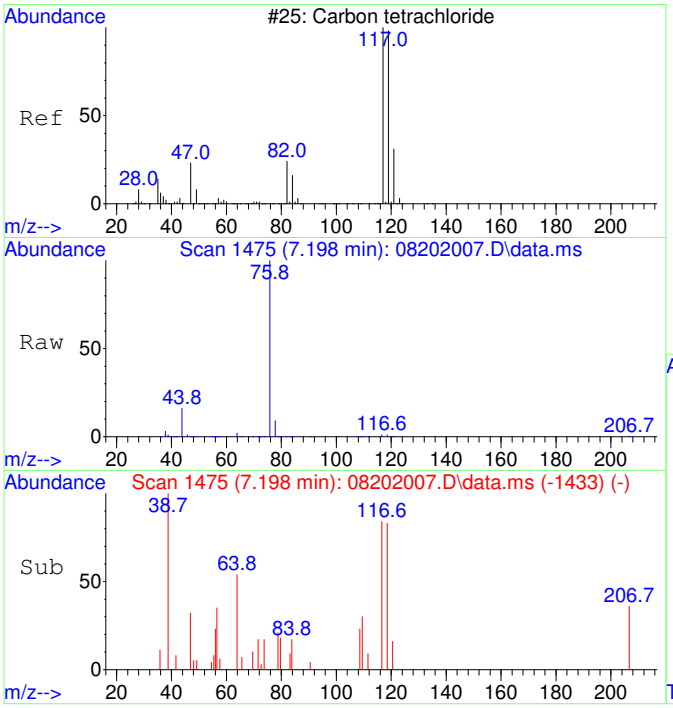


#31
1,1,1-Trichloroethane SCAN
Concen: 228.30 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

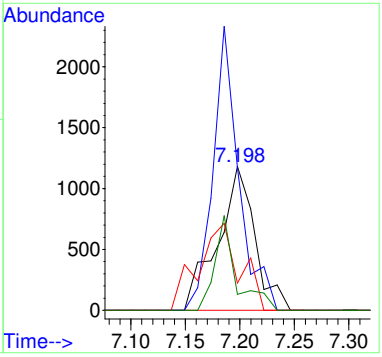


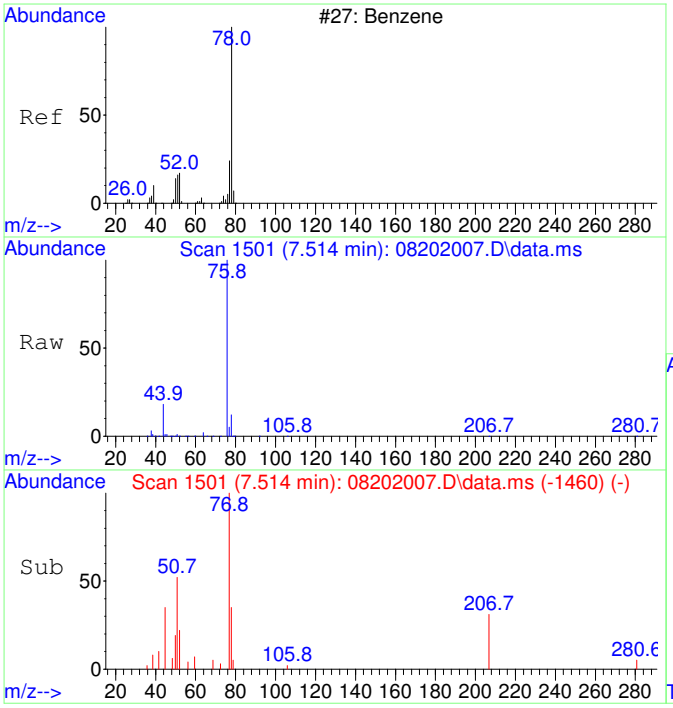


#32
Carbon tetrachloride SCAN
Concen: 124.33 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. 0.012 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

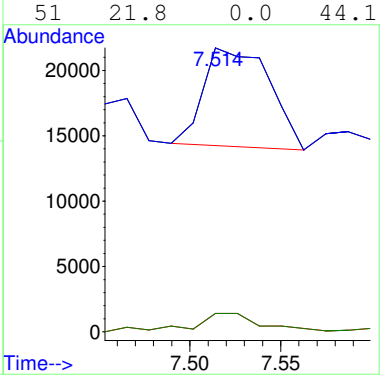


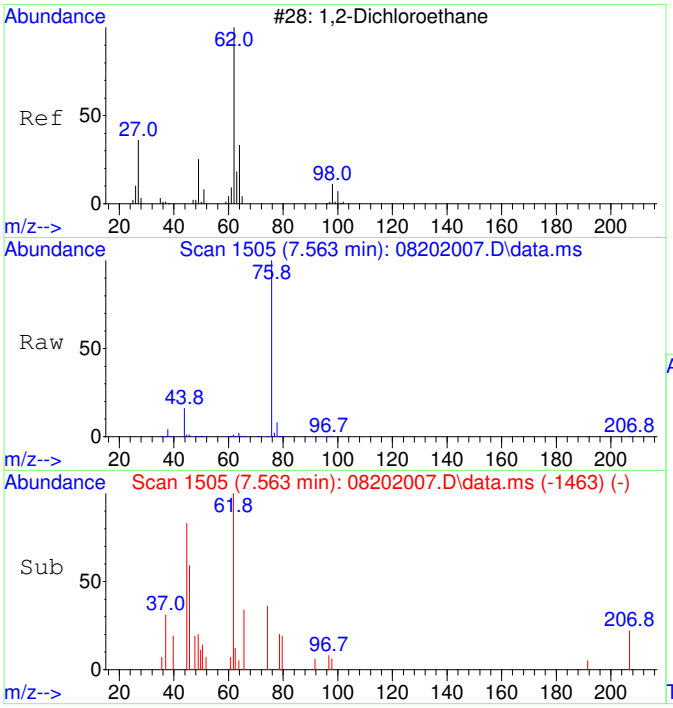


#33
Benzene SCAN
Concen: 317.45 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

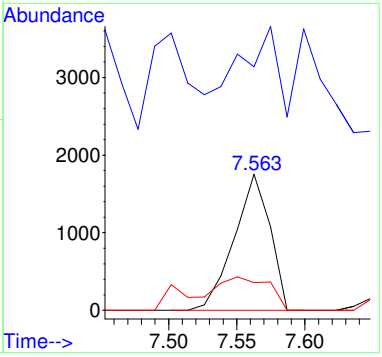


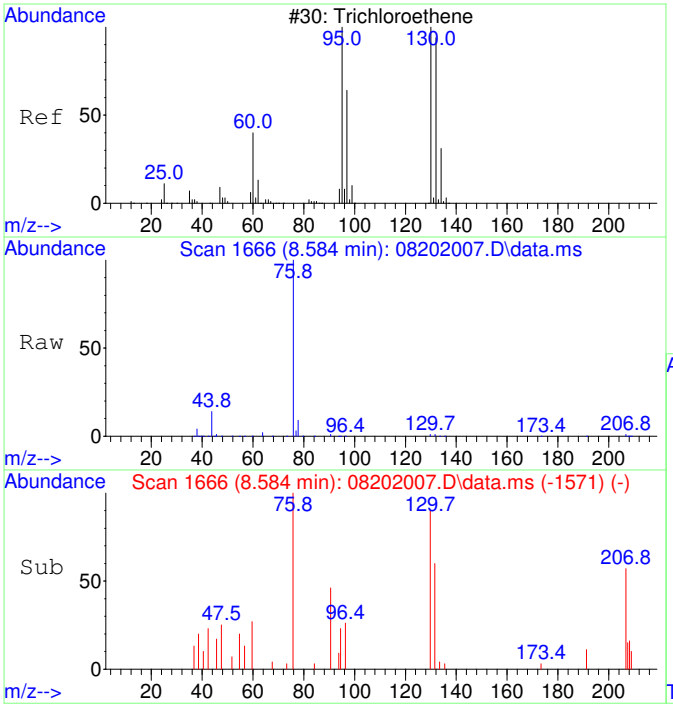


#34
1,2-Dichloroethane SCAN
Concen: 146.10 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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#

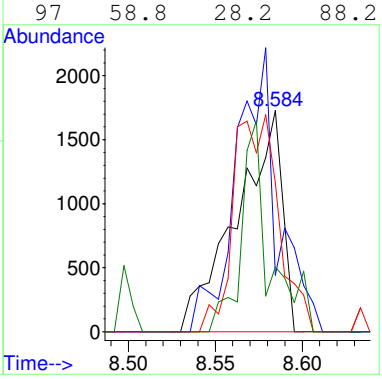


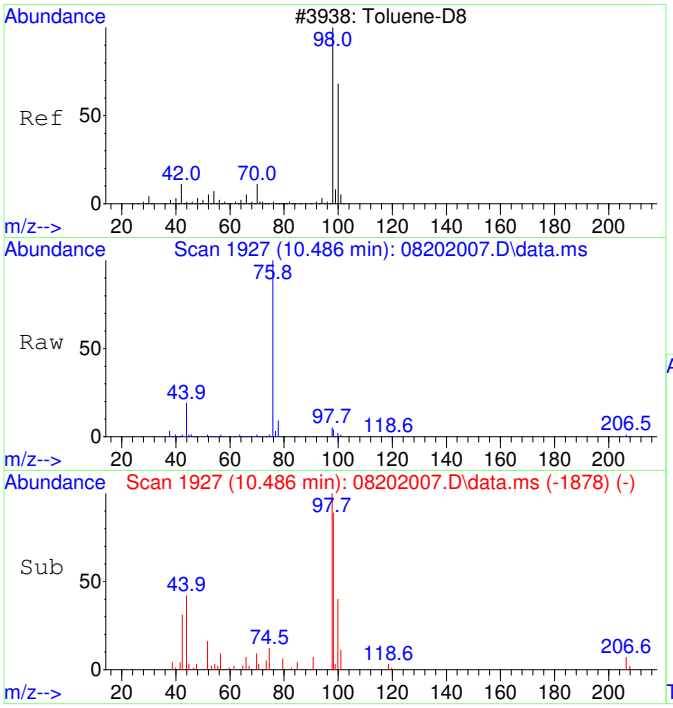


#35
Trichloroethene SCAN
Concen: 193.80 ug/L
RT: 8.584 min Scan# 1666
Delta R.T. 0.016 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

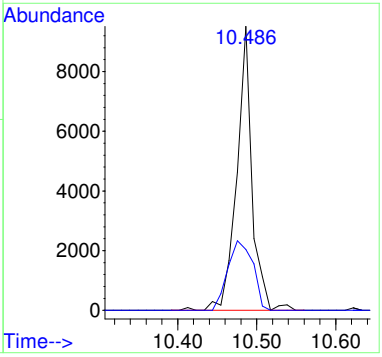


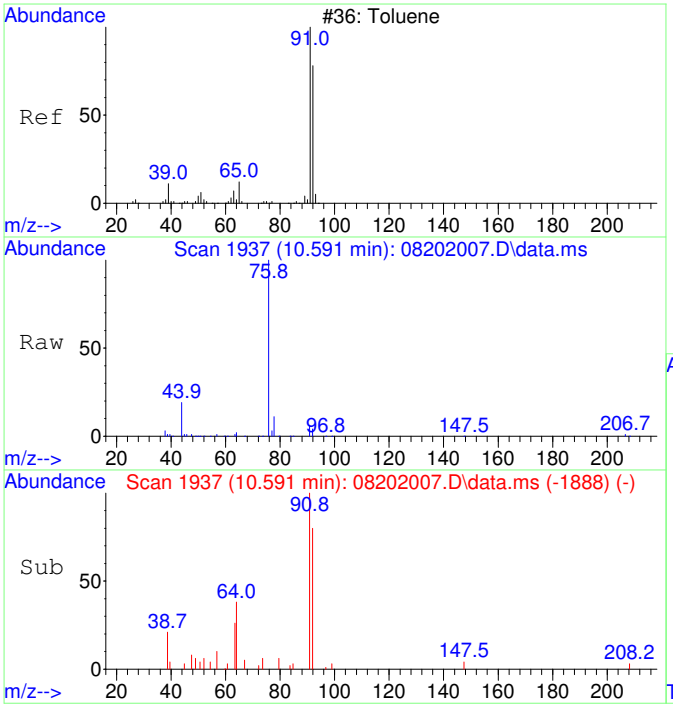


#36
Toluene-d8 SCAN
Concen: 194.45 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

Tgt Ion: 98 Resp: 12748

Ion	Ratio	Lower	Upper
98	100		
100	40.3	40.0	100.0

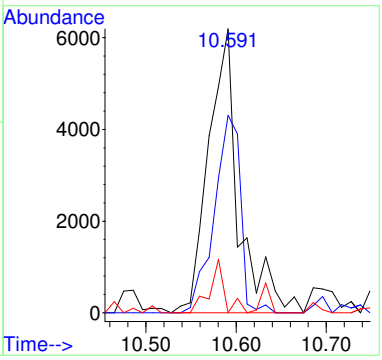


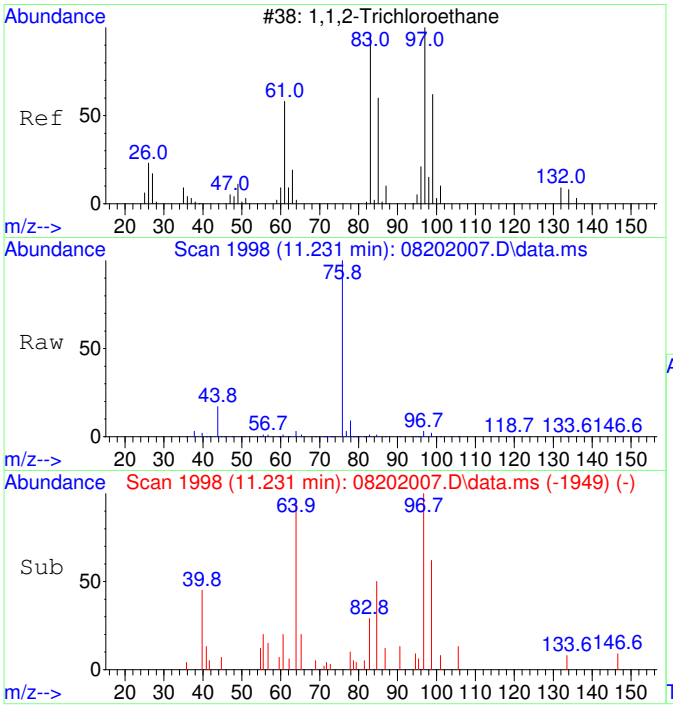


#37
Toluene SCAN
Concen: 171.17 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

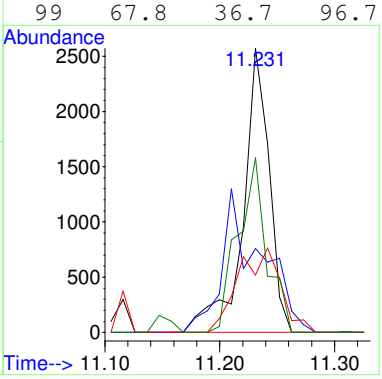


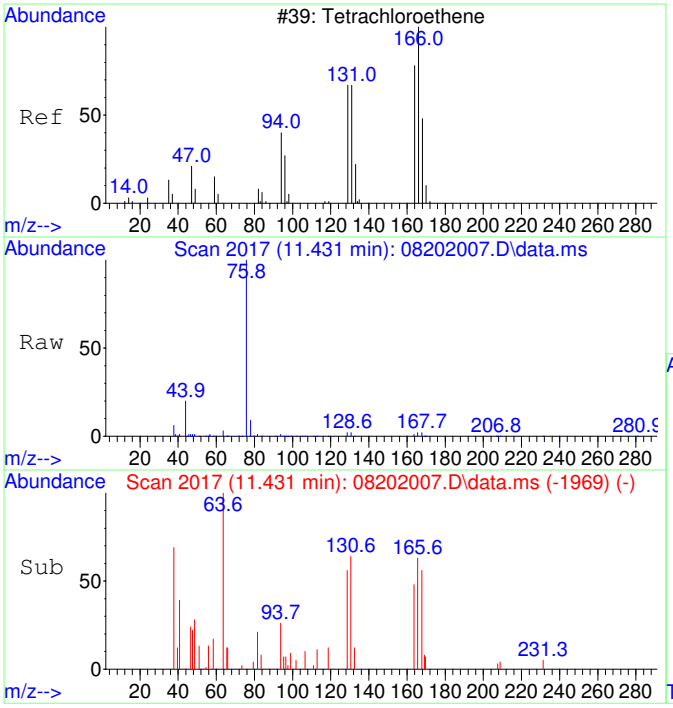


#38
1,1,2-Trichloroethane SCAN
Concen: 216.66 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. 0.011 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

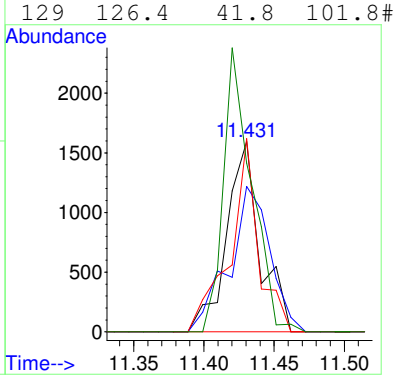


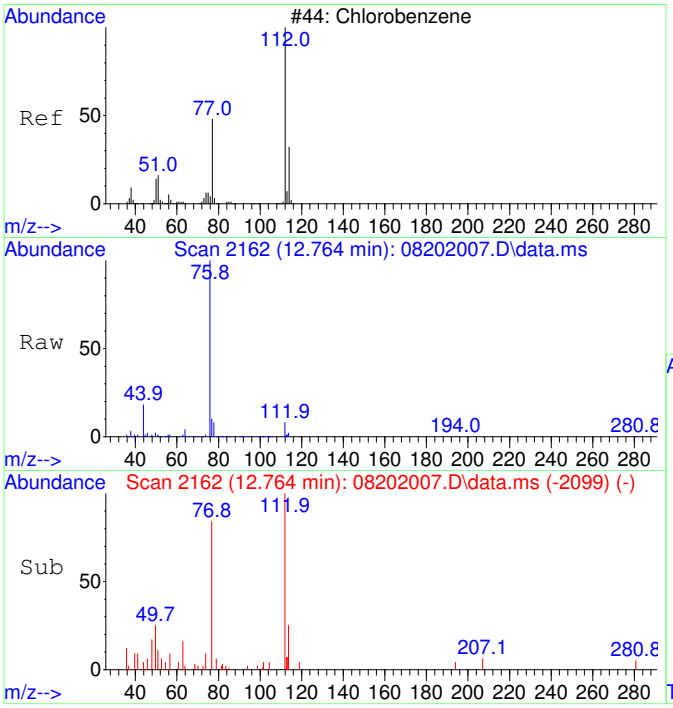


#39
Tetrachloroethene SCAN
Concen: 131.18 ug/L
RT: 11.431 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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#

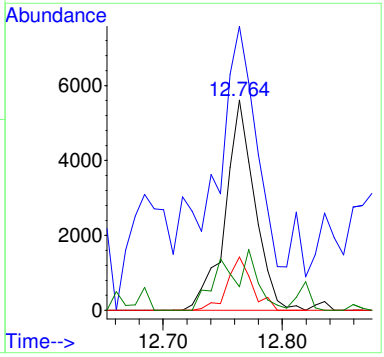


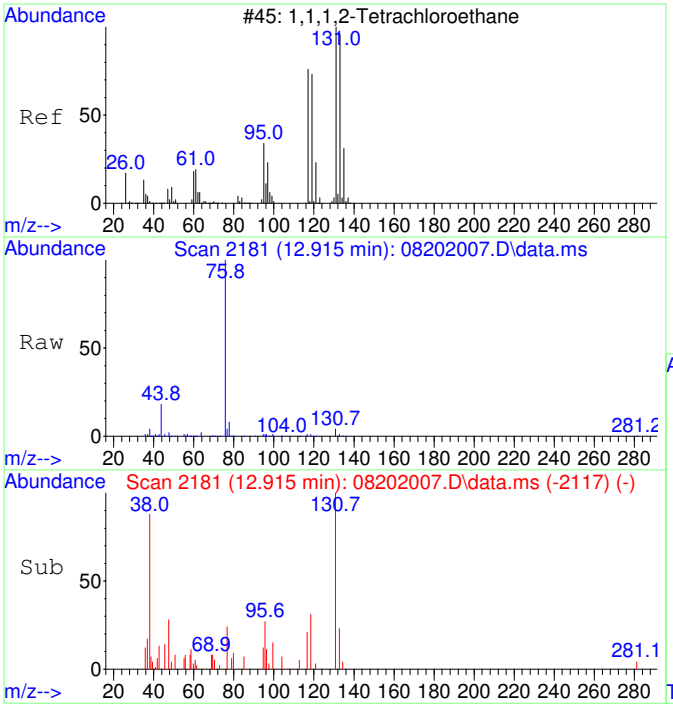


#40
Chlorobenzene SCAN
Concen: 169.04 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

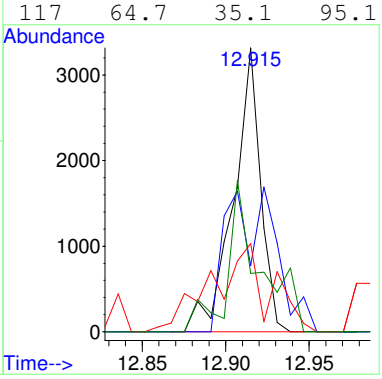


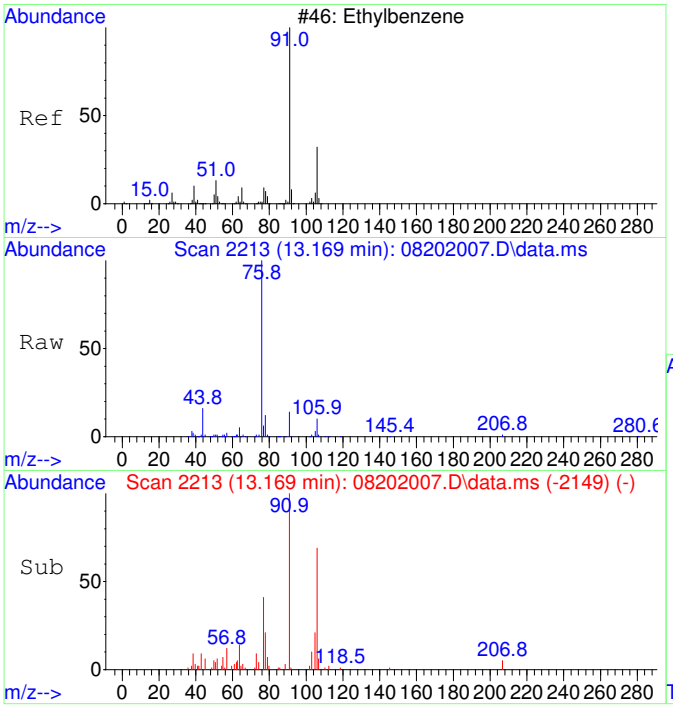


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 177.14 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

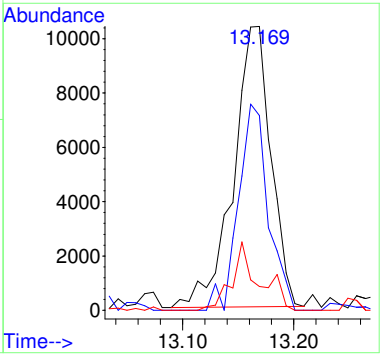


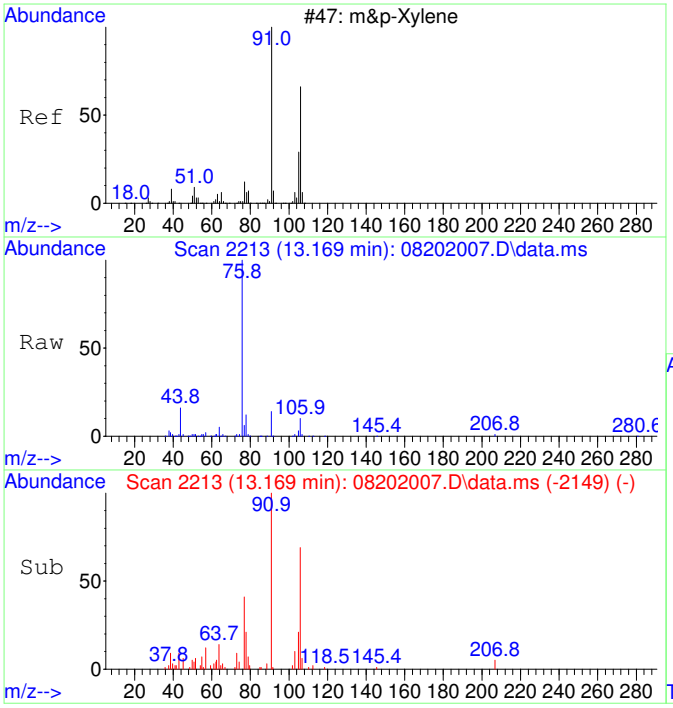


#42
Ethylbenzene SCAN
Concen: 158.20 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

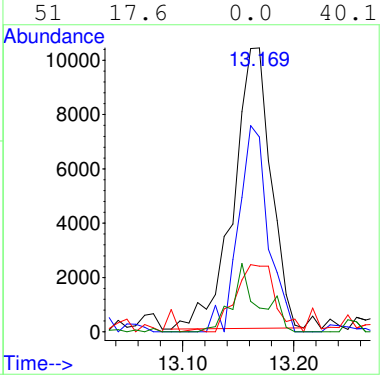


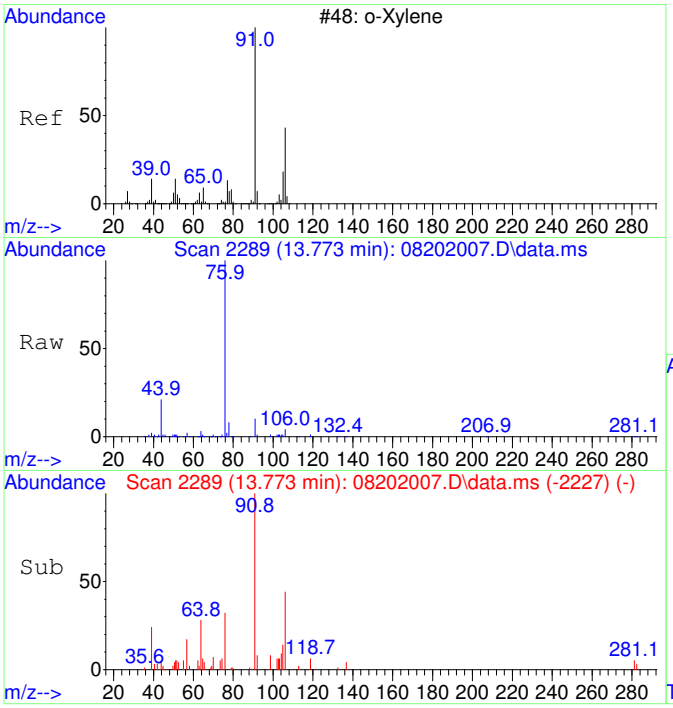


#43
m&p-Xylene SCAN
Concen: 158.20 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

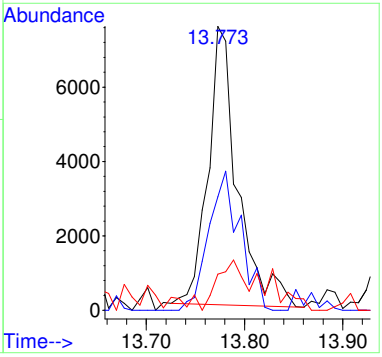


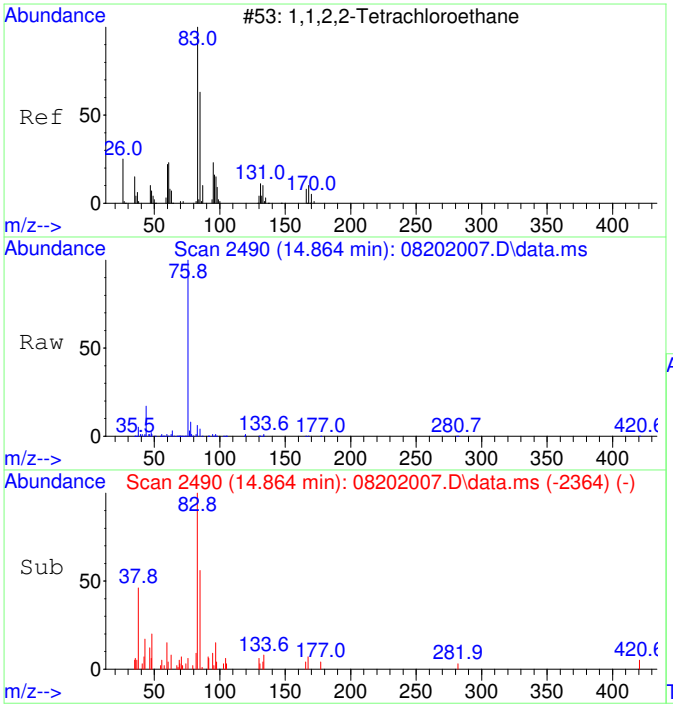


#44
o-Xylene SCAN
Concen: 190.48 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.008 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

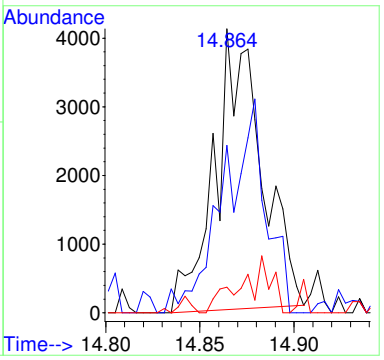


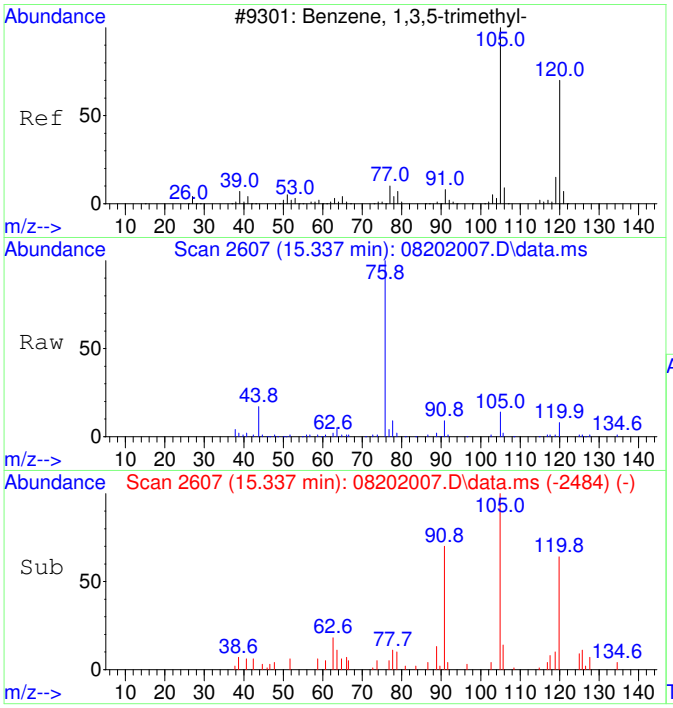


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 177.39 ug/L
RT: 14.864 min Scan# 2490
Delta R.T. -0.007 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

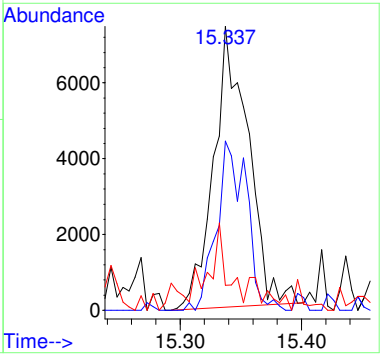


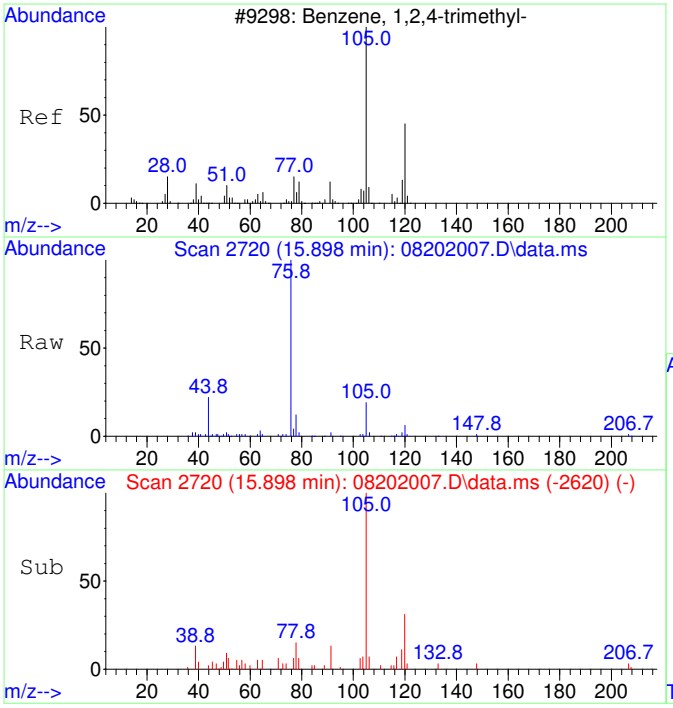


#46
1,3,5-Trimethylbenzene SCAN
Concen: 170.06 ug/L
RT: 15.337 min Scan# 2607
Delta R.T. -0.006 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

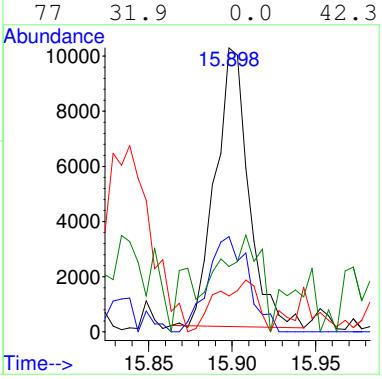


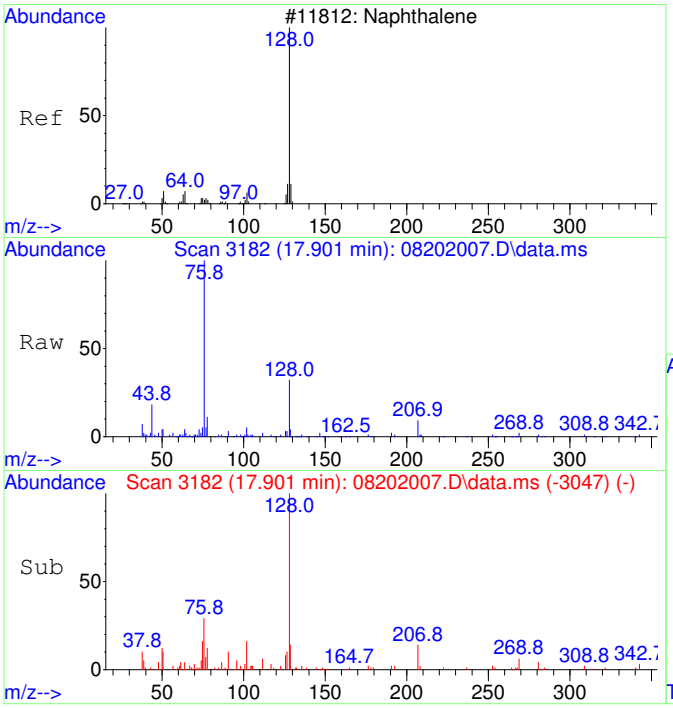


#47
1,2,4-Trimethylbenzene SCAN
Concen: 157.88 ug/L
RT: 15.898 min Scan# 2720
Delta R.T. -0.001 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

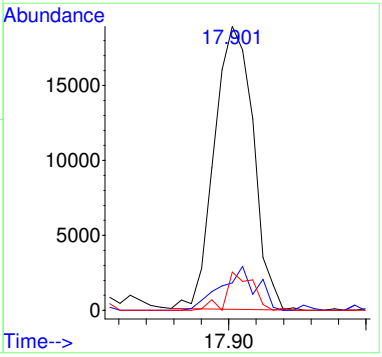




#48
Naphthalene SCAN
Concen: 138.89 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. 0.000 min
Lab File: 08202007.D
Acq: 20 Aug 2020 17:01

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

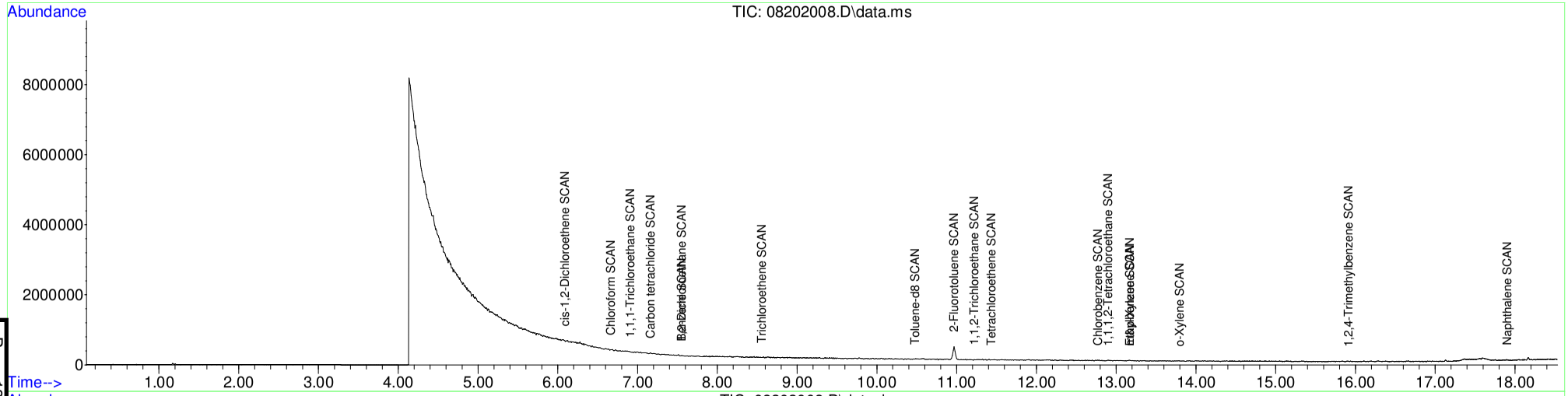
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	604968	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	5849	49.39	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	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



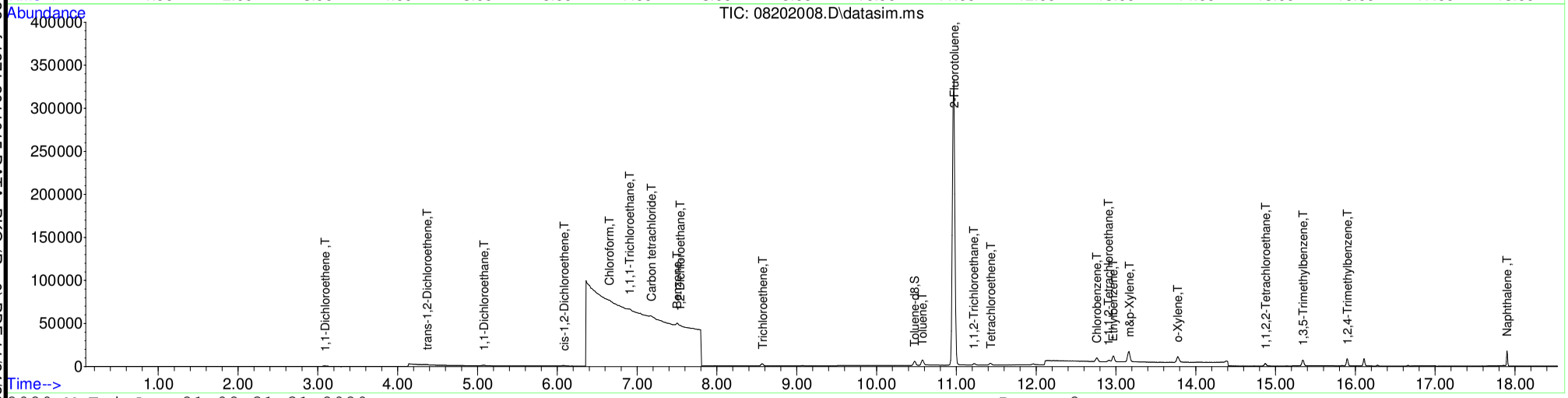
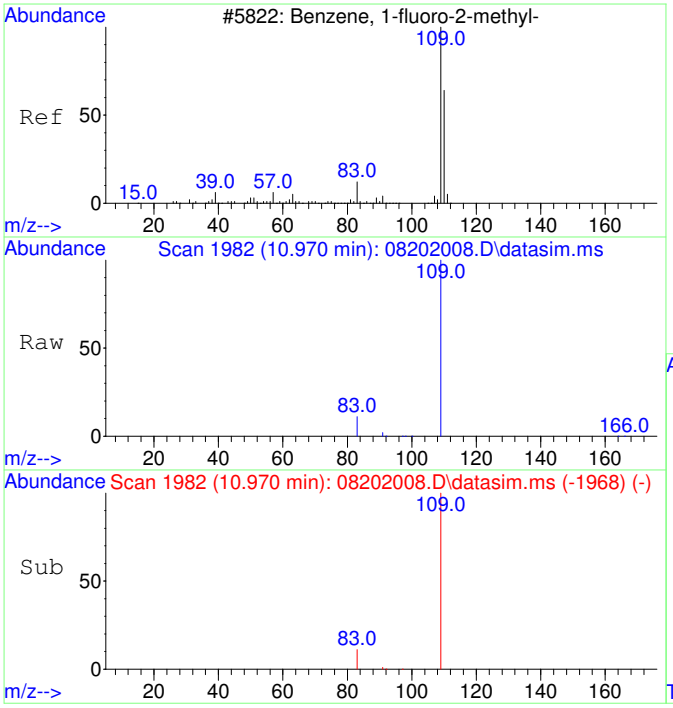


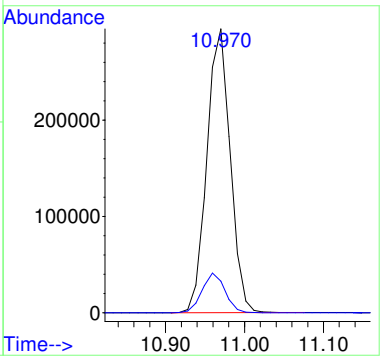
Table of Contents

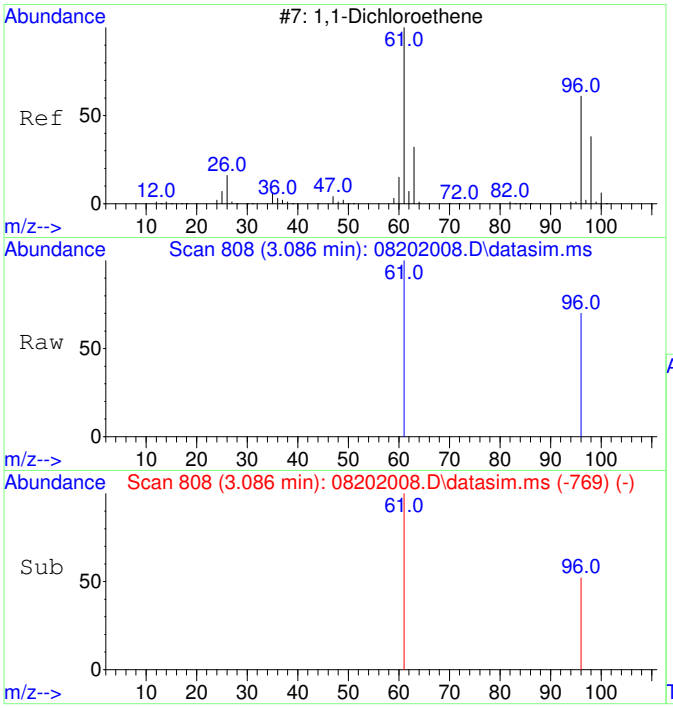


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:109 Resp: 604968

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

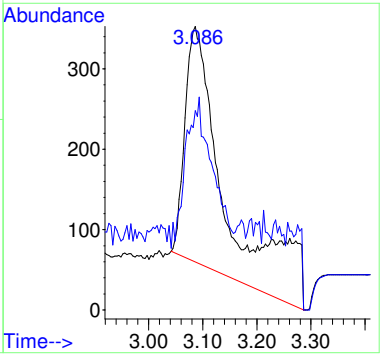




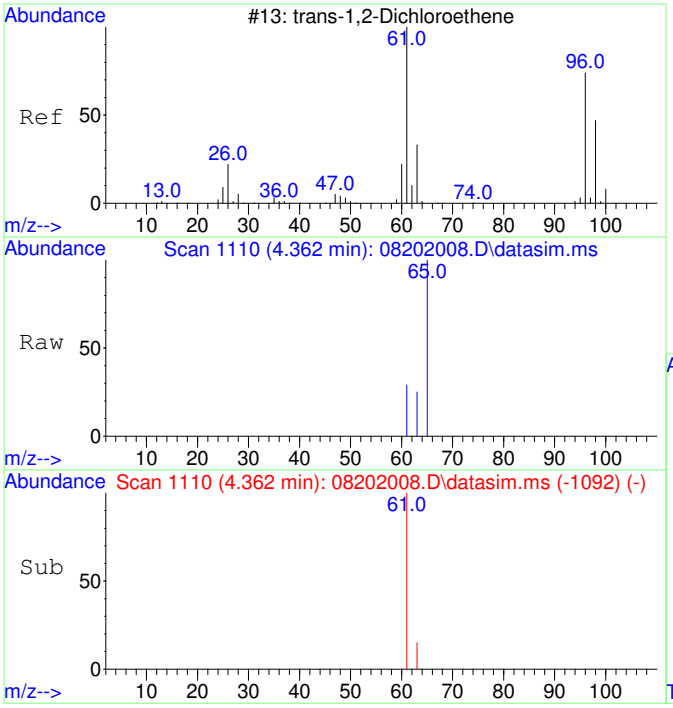
#2
1,1-Dichloroethene
Concen: 56.74 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.004 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 61 Resp: 1509

Ion	Ratio	Lower	Upper
61	100		
96	55.2	37.2	97.2



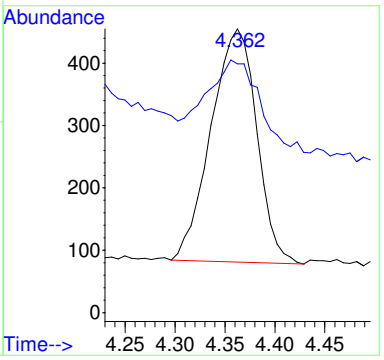
Before MI:
IMPROPER
BASELINE

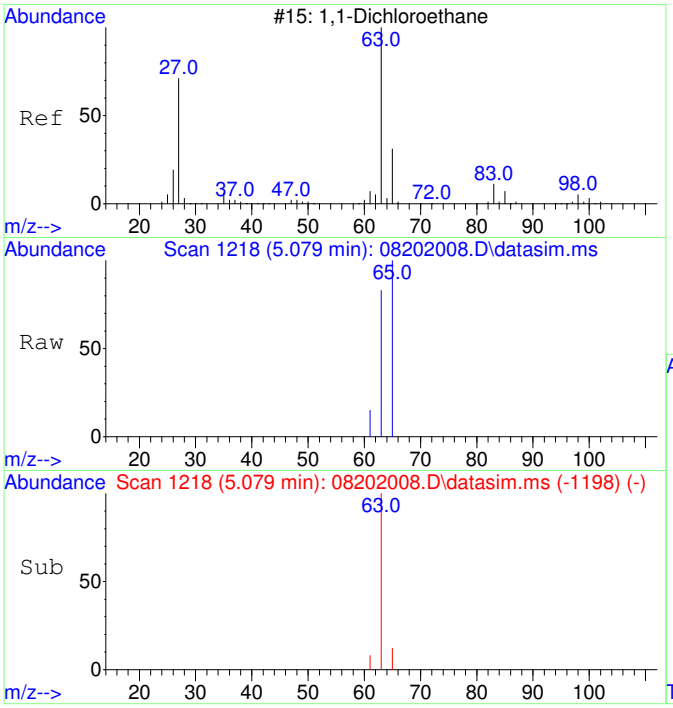


#3
trans-1,2-Dichloroethene
Concen: 42.71 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. -0.033 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 61 Resp: 1192

Ion	Ratio	Lower	Upper
61	100		
63	48.7	2.4	62.4

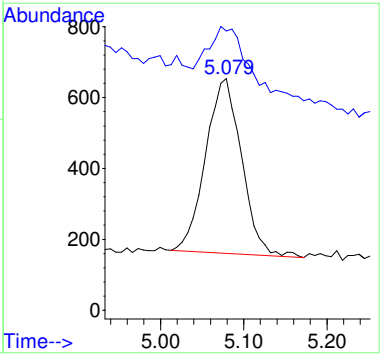


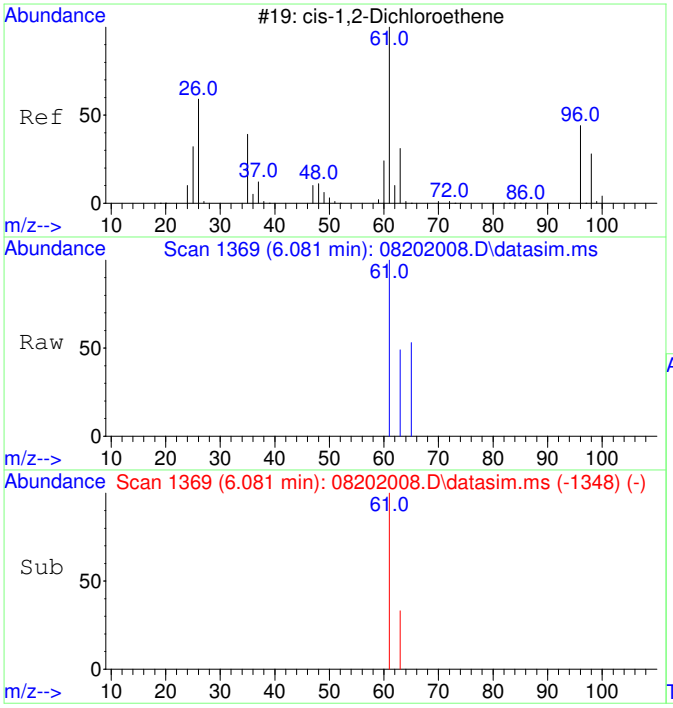


#4
1,1-Dichloroethane
Concen: 42.45 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 63 Resp: 1475

Ion	Ratio	Lower	Upper
63	100		
65	76.1	1.8	61.8#

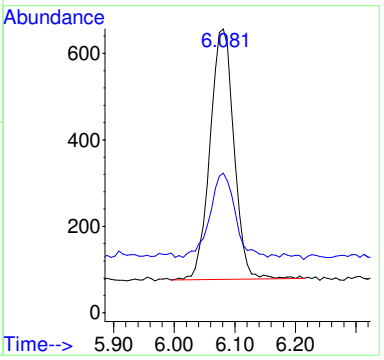


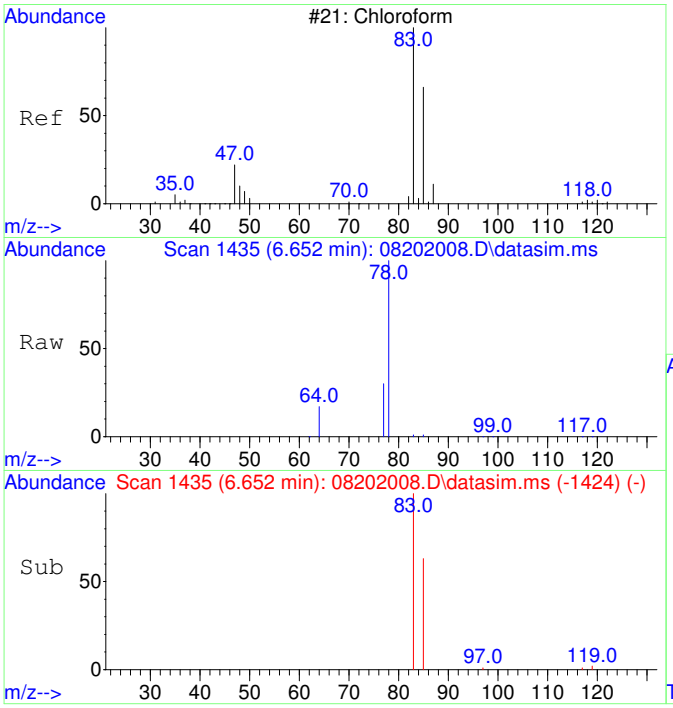


#5
cis-1,2-Dichloroethene
Concen: 43.46 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 61 Resp: 1594

Ion	Ratio	Lower	Upper
61	100		
63	35.1	2.5	62.5

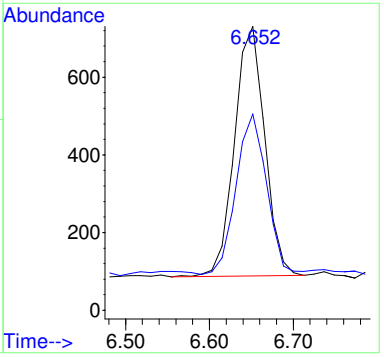


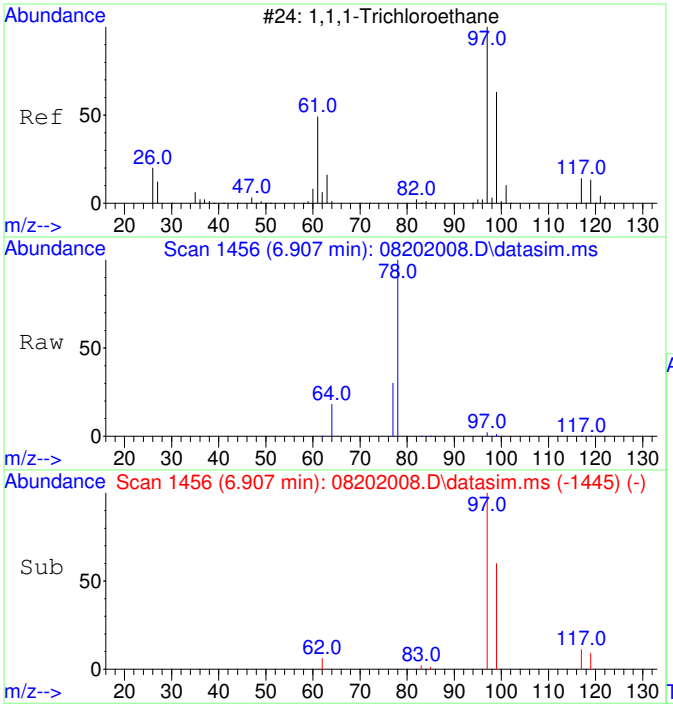


#6
Chloroform
Concen: 42.78 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 83 Resp: 1606

Ion	Ratio	Lower	Upper
83	100		
85	64.9	35.1	95.1

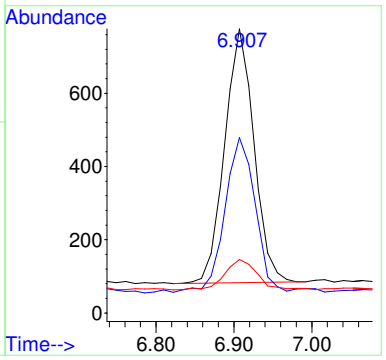


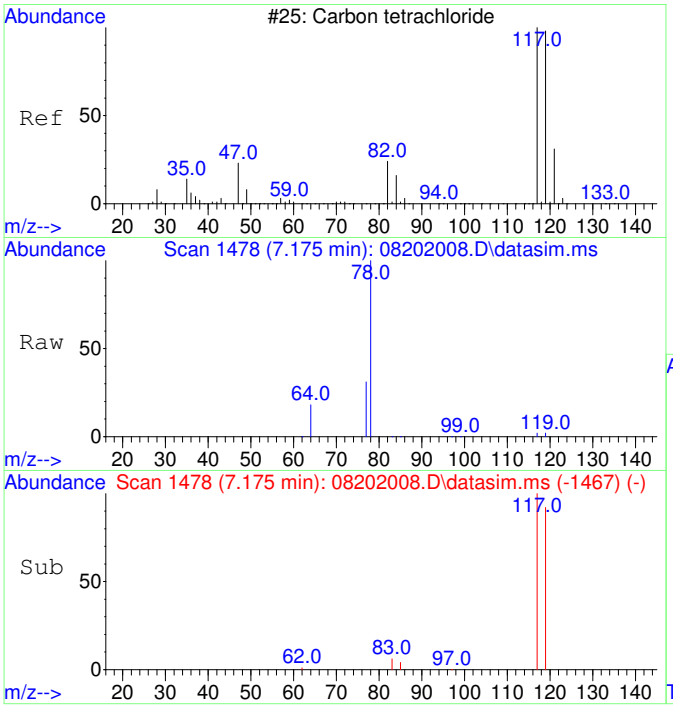


#7
1,1,1-Trichloroethane
Concen: 44.60 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

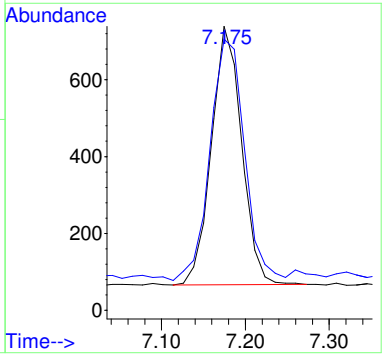


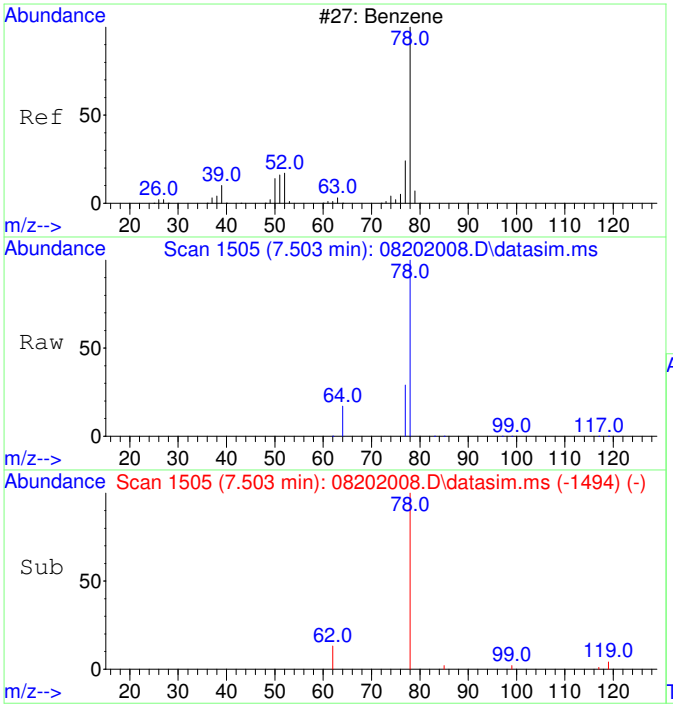


#8
Carbon tetrachloride
Concen: 43.79 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:117 Resp: 1680

Ion	Ratio	Lower	Upper
117	100		
119	105.9	66.4	126.4

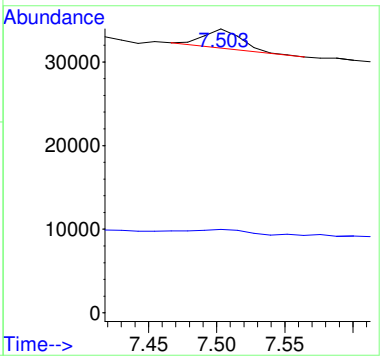


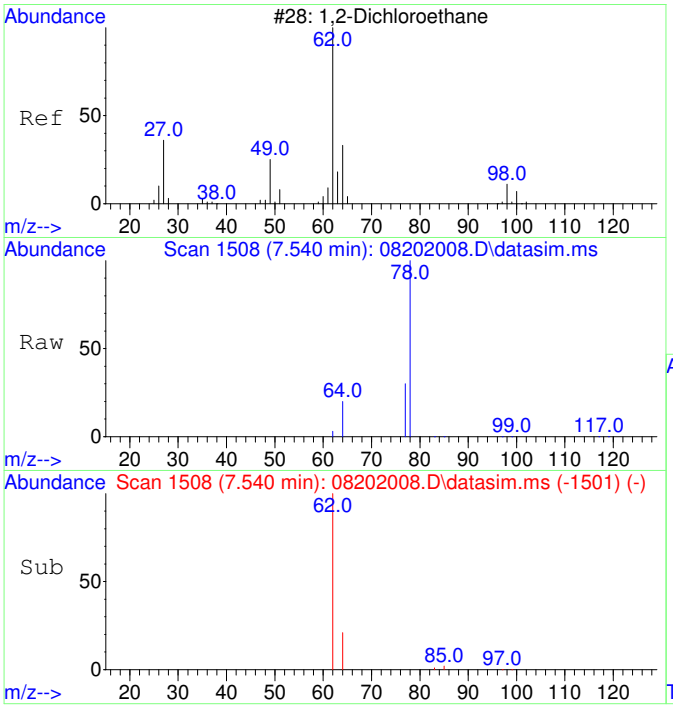


#9
Benzene
Concen: 37.10 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 78 Resp: 3813

Ion	Ratio	Lower	Upper
78	100		
77	99.1	0.0	53.2#

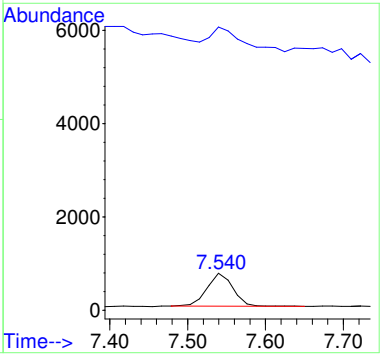


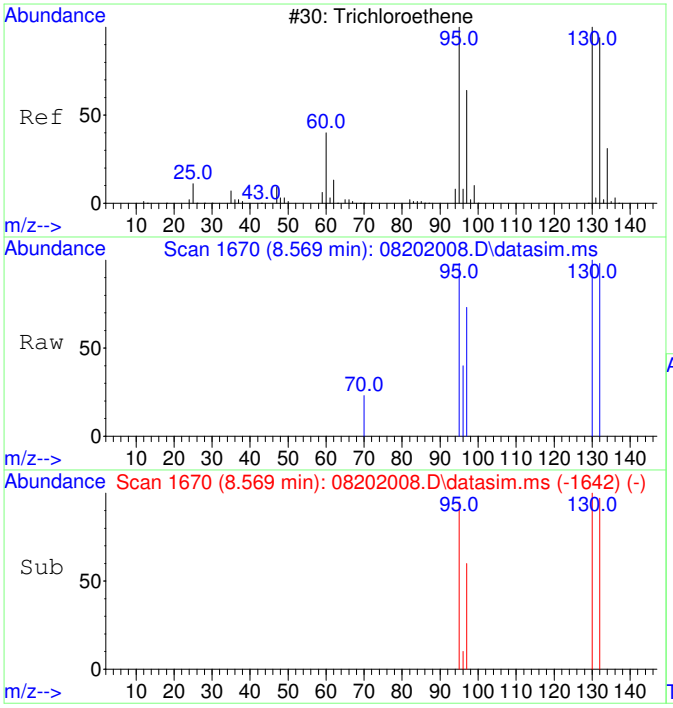


#10
1,2-Dichloroethane
Concen: 43.69 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 62 Resp: 1603

Ion	Ratio	Lower	Upper
62	100		
64	90.9	2.3	62.3#

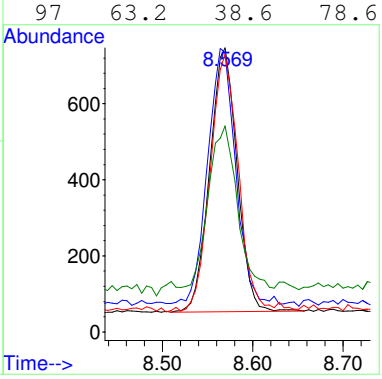


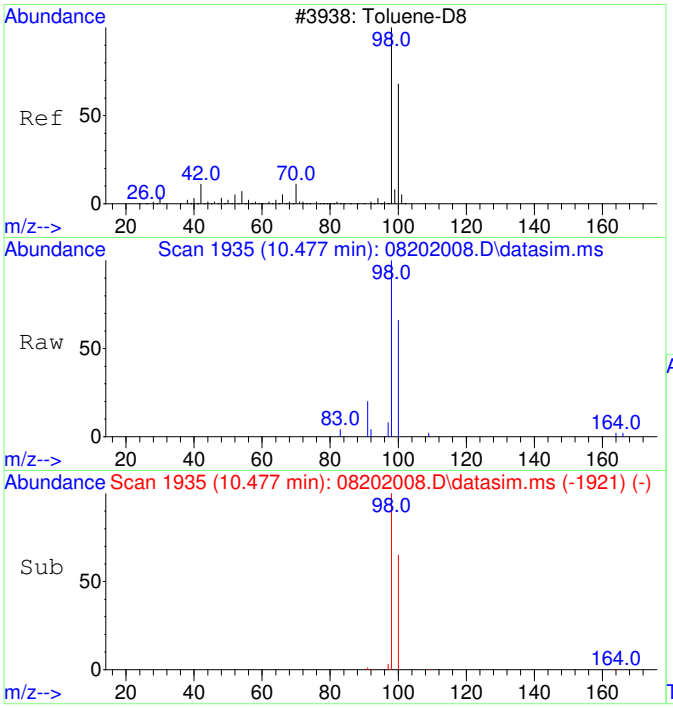


#11
Trichloroethene
Concen: 47.31 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

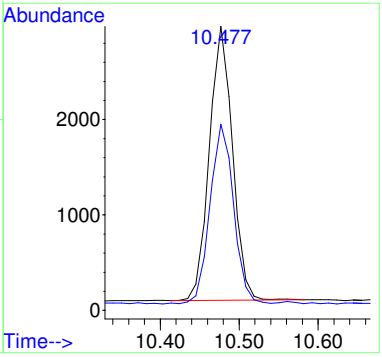


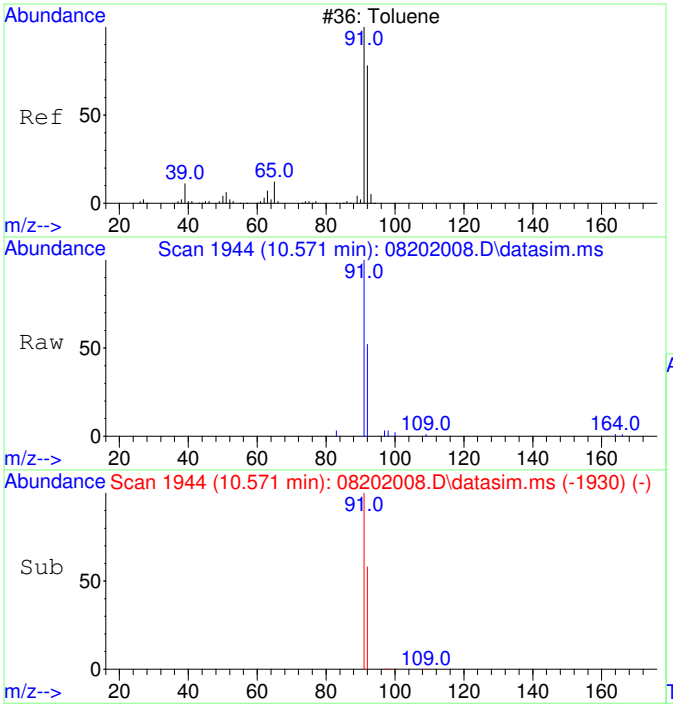


#12
Toluene-d8
Concen: 49.39 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 98 Resp: 5849

Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1

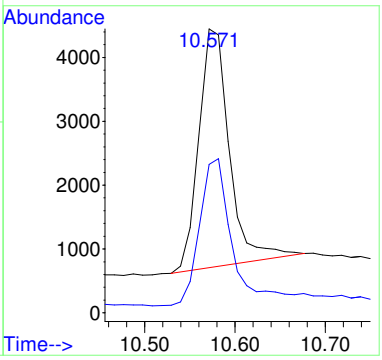


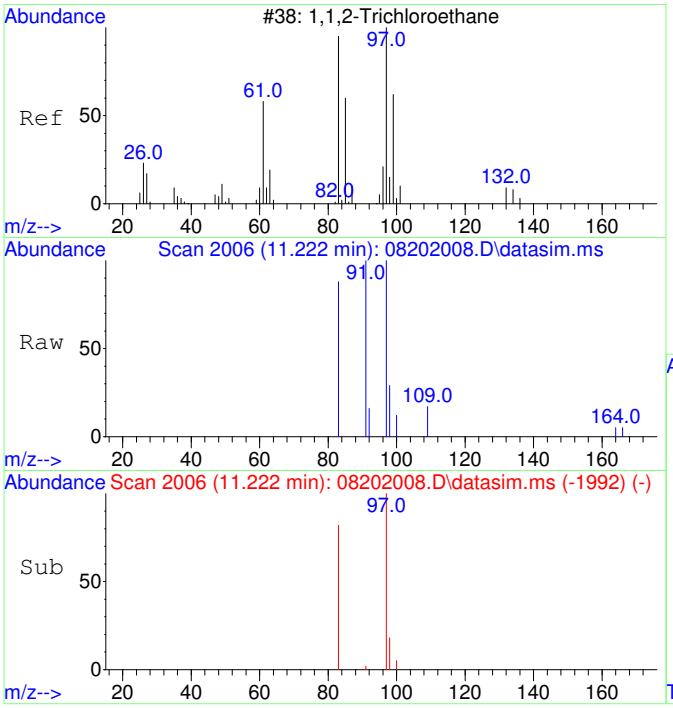


#13
Toluene
Concen: 58.81 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 8880

Ion	Ratio	Lower	Upper
91	100		
92	66.5	29.9	89.9

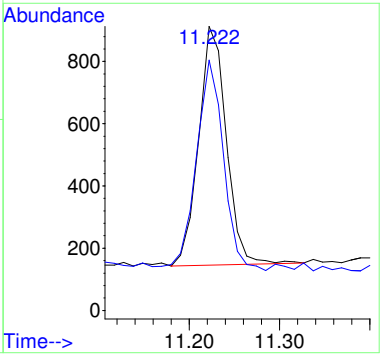


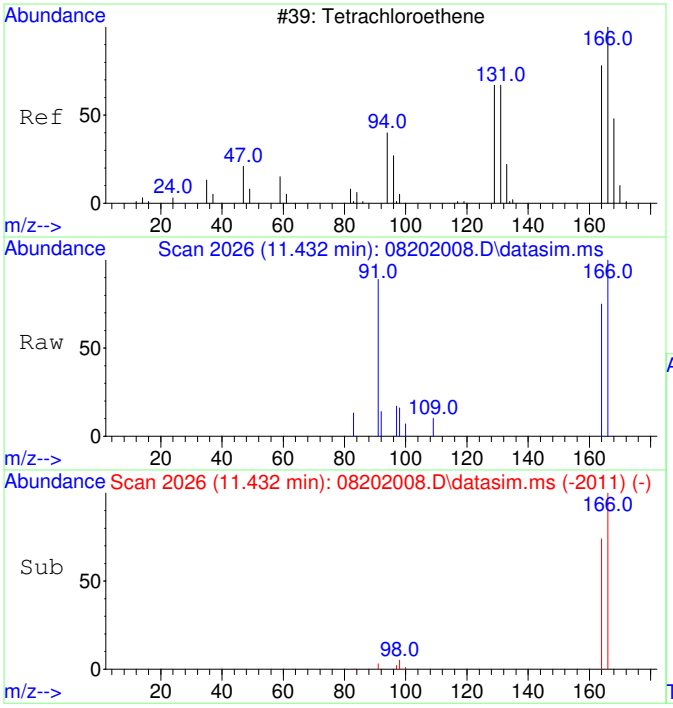


#14
1,1,2-Trichloroethane
Concen: 49.61 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 97 Resp: 1632

Ion	Ratio	Lower	Upper
97	100		
83	87.4	51.2	111.2

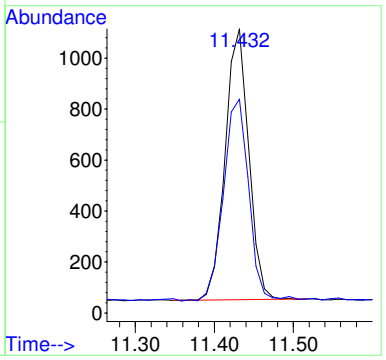


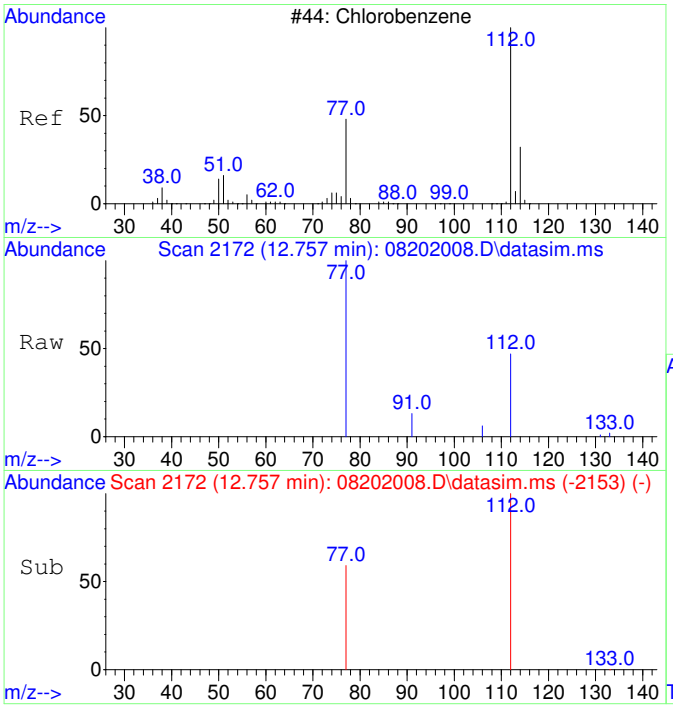


#15
Tetrachloroethene
Concen: 50.49 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:166 Resp: 2206

Ion	Ratio	Lower	Upper
166	100		
164	78.9	47.8	107.8

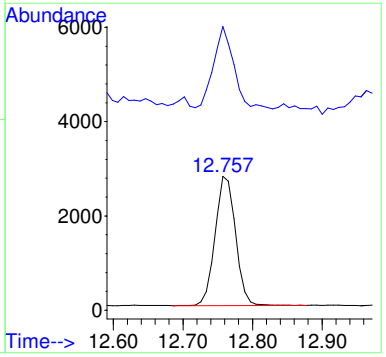


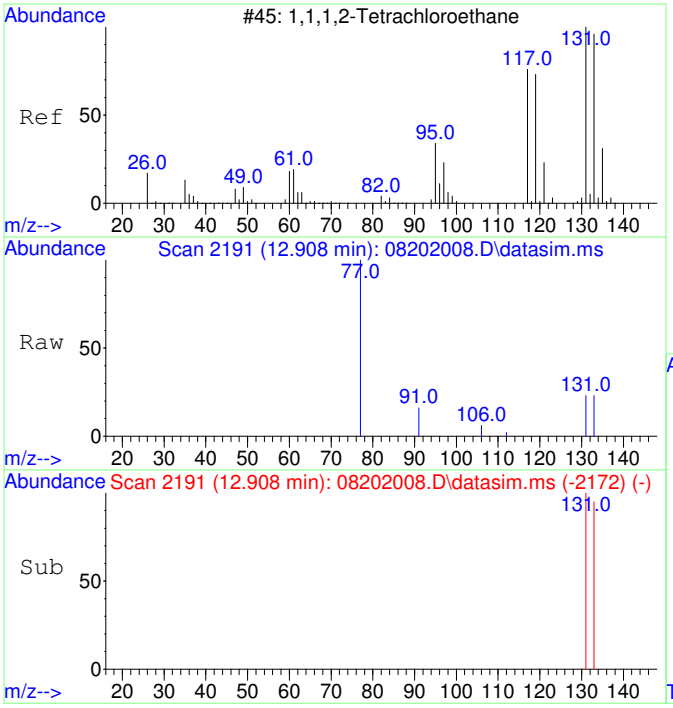


#16
Chlorobenzene
Concen: 51.95 ug/L
RT: 12.757 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:112 Resp: 5616

Ion	Ratio	Lower	Upper
112	100		
77	63.2	23.6	83.6

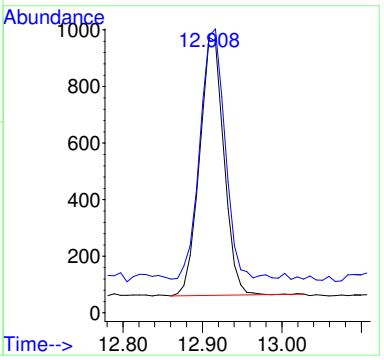


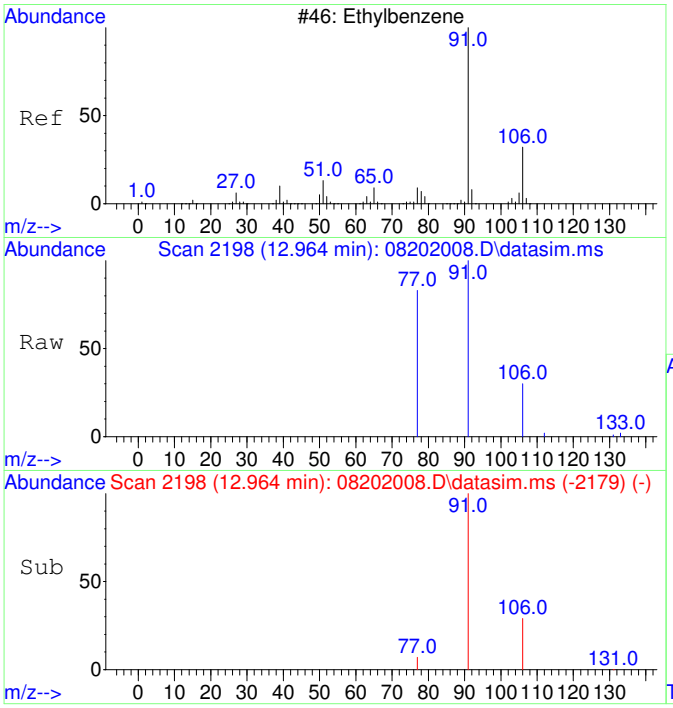


#17
1,1,1,2-Tetrachloroethane
Concen: 49.98 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:131 Resp: 1936

Ion	Ratio	Lower	Upper
131	100		
133	99.2	66.3	126.3

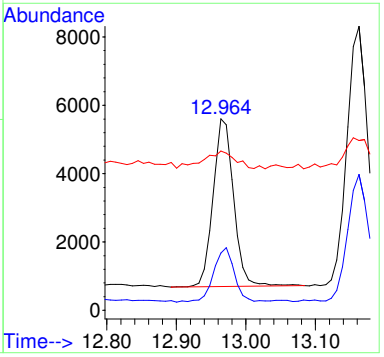


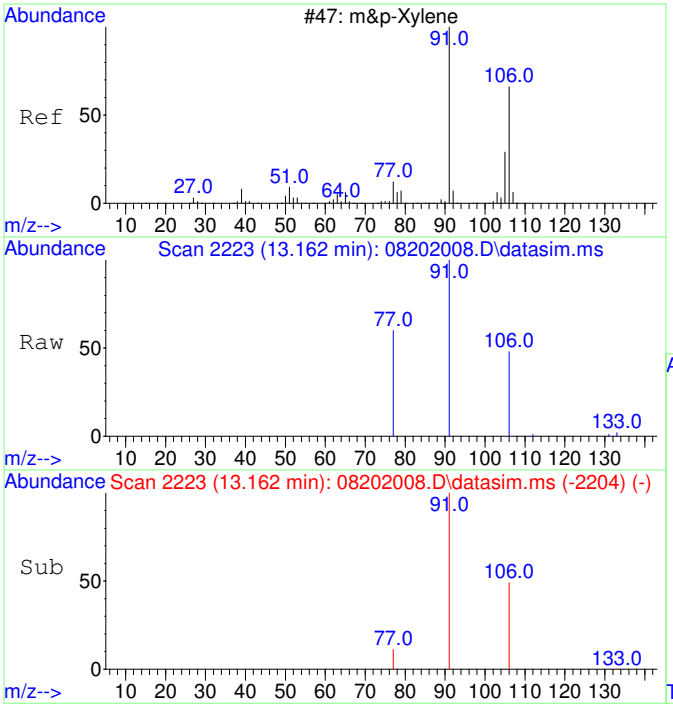


#18
Ethylbenzene
Concen: 54.85 ug/L
RT: 12.964 min Scan# 2198
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

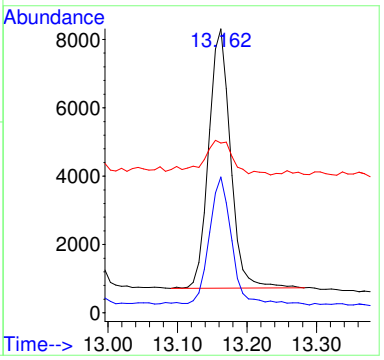


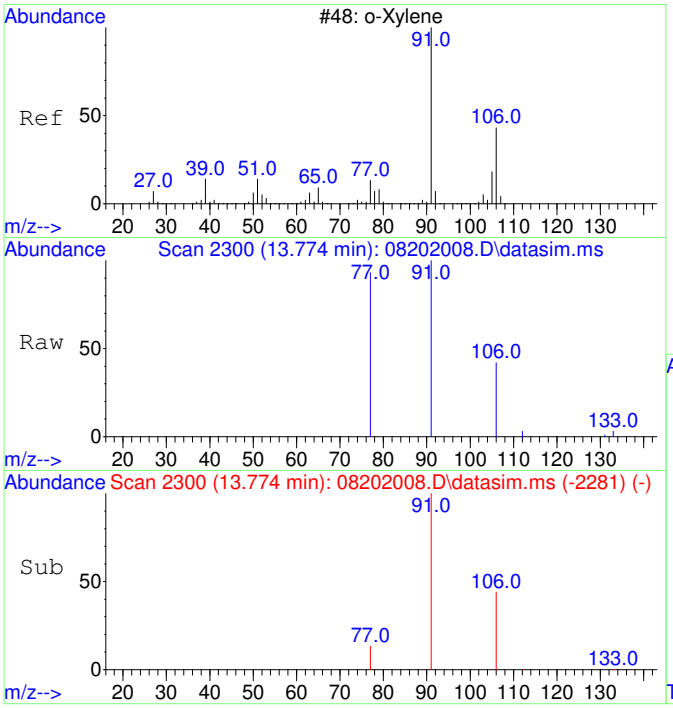


#19
m&p-Xylene
Concen: 114.72 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

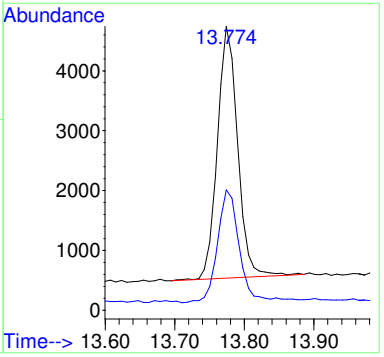


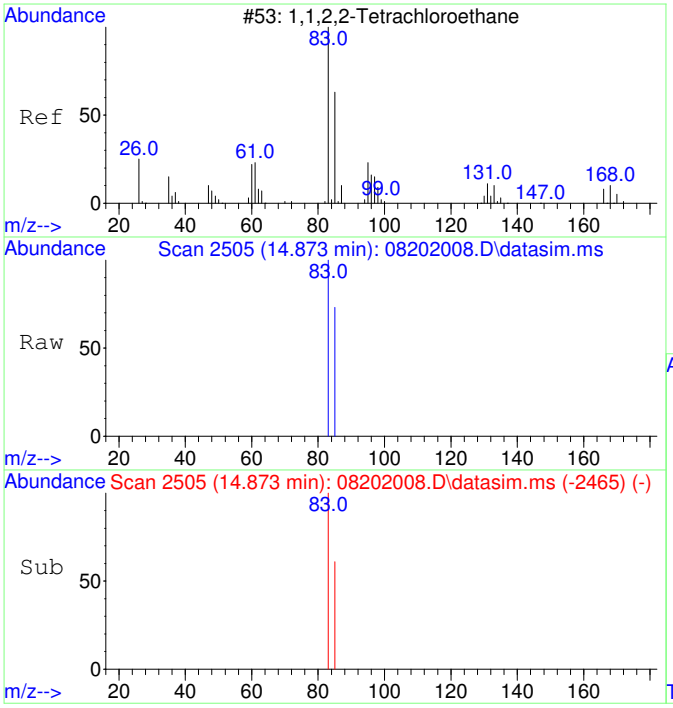


#20
o-Xylene
Concen: 55.46 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 8511

Ion	Ratio	Lower	Upper
91	100		
106	47.6	19.2	79.2

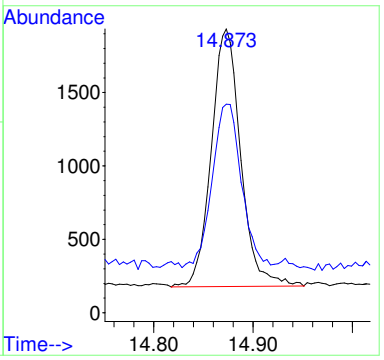


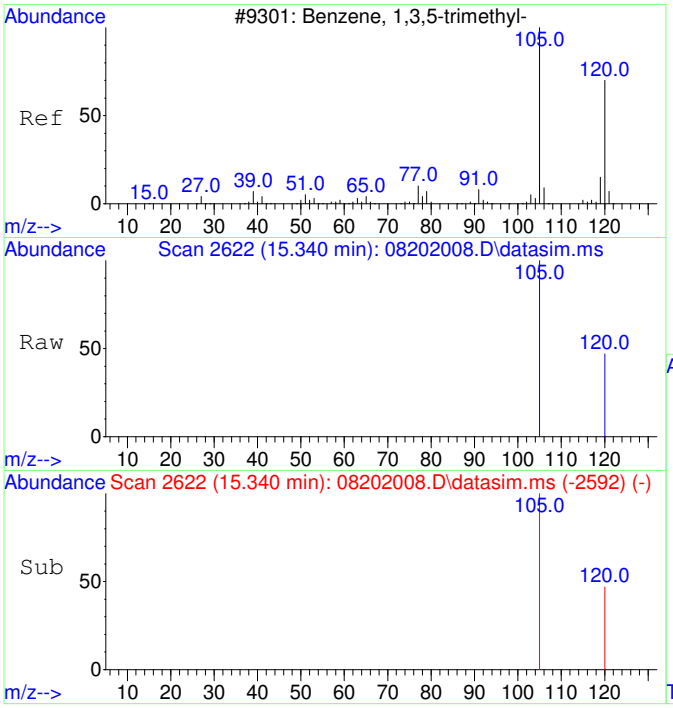


#21
1,1,2,2-Tetrachloroethane
Concen: 52.99 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 83 Resp: 3604

Ion	Ratio	Lower	Upper
83	100		
85	63.3	34.8	94.8

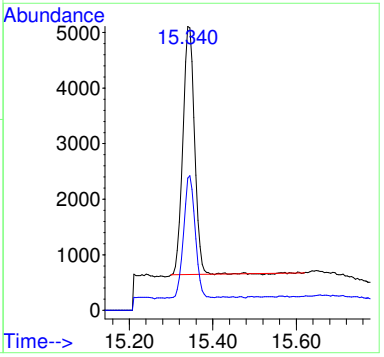


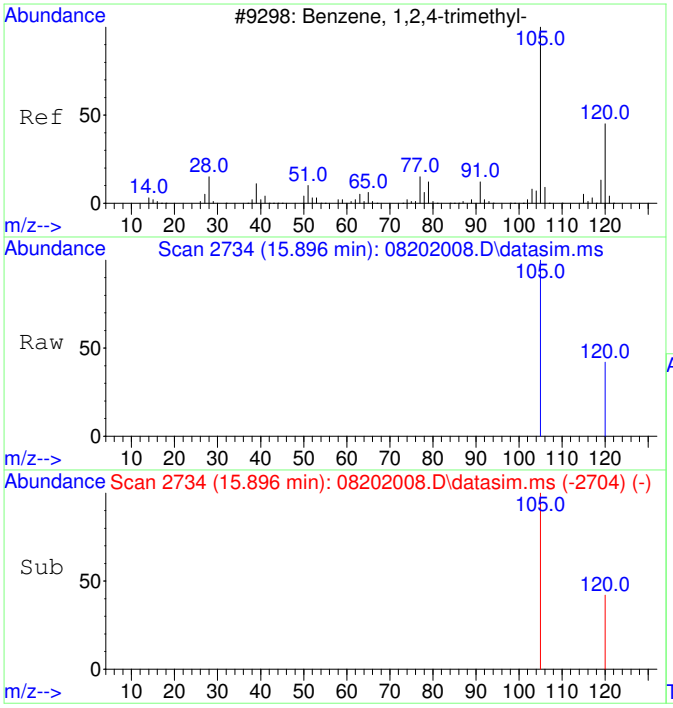


#22
1,3,5-Trimethylbenzene
Concen: 52.84 ug/L
RT: 15.340 min Scan# 2622
Delta R.T. -0.005 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:105 Resp: 8630

Ion	Ratio	Lower	Upper
105	100		
120	47.6	21.1	81.1

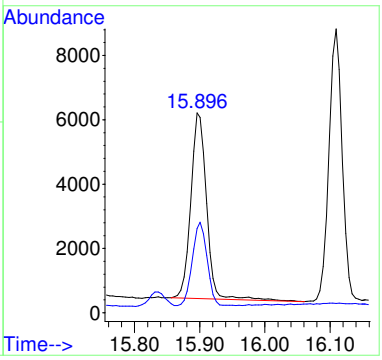


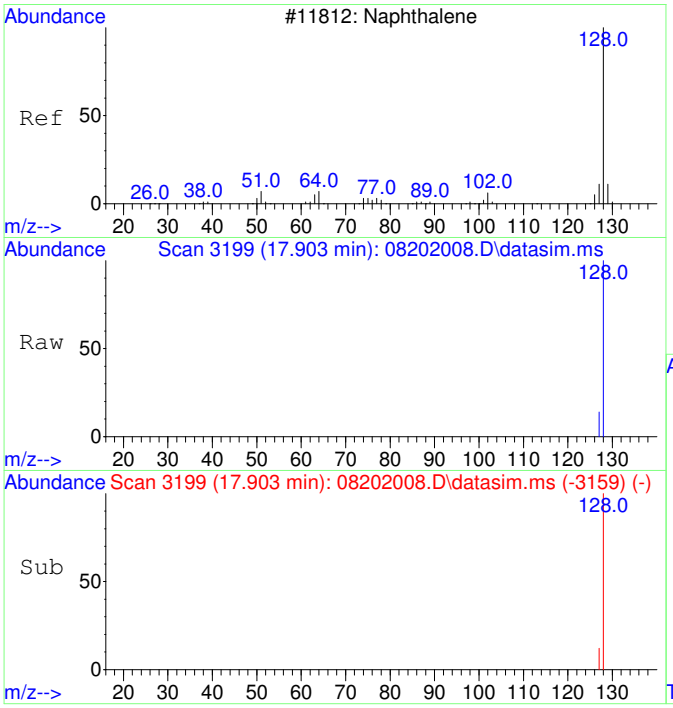


#23
1,2,4-Trimethylbenzene
Concen: 56.95 ug/L
RT: 15.896 min Scan# 2734
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:105 Resp: 9662

Ion	Ratio	Lower	Upper
105	100		
120	41.8	17.2	77.2

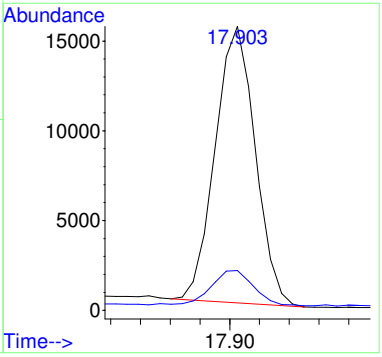


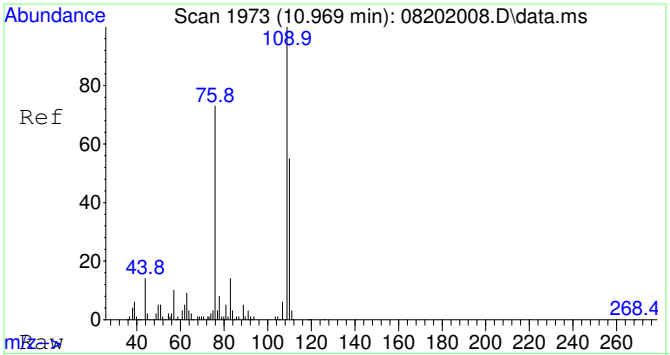


#24
Naphthalene
Concen: 53.59 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:128 Resp: 14370

Ion	Ratio	Lower	Upper
128	100		
127	13.4	0.0	42.5

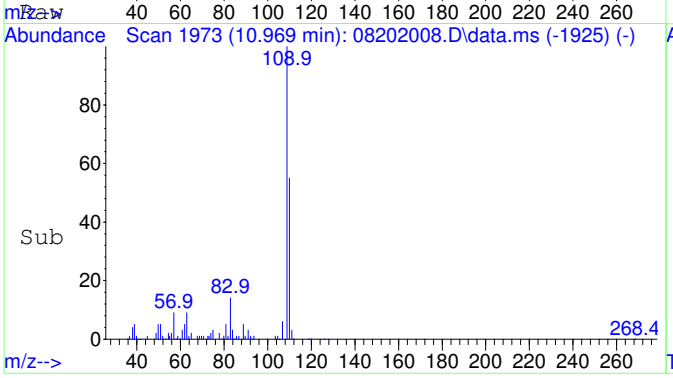


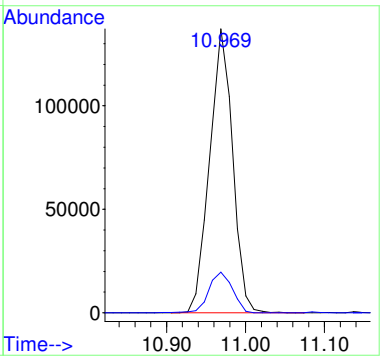


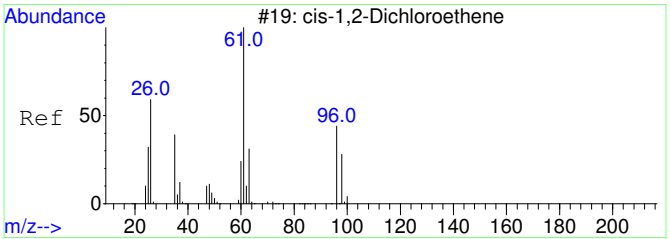
#25
2-Fluorotoluene SCAN
Concen: 4686.70 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:109 Resp: 276390

Ion	Ratio	Lower	Upper
109	100		
83	14.8	0.0	43.8



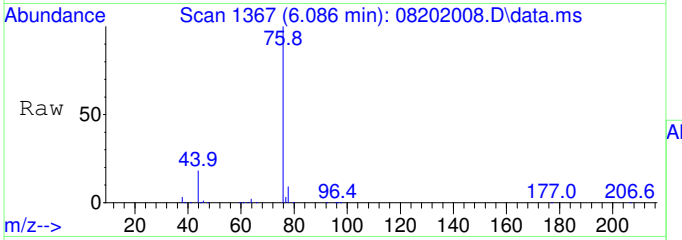


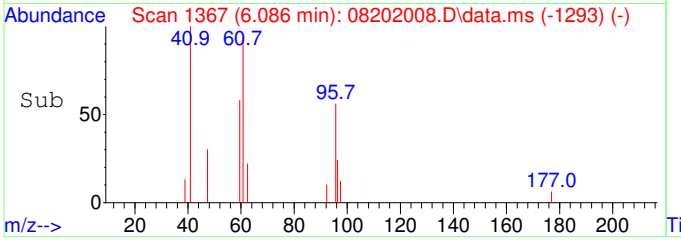


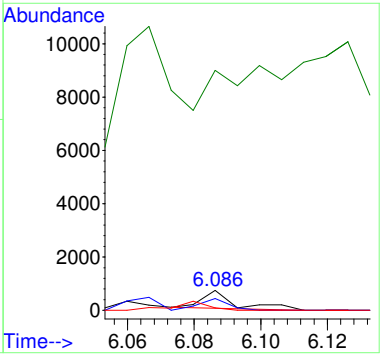
#29
cis-1,2-Dichloroethene SCAN
Concen: 23.21 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

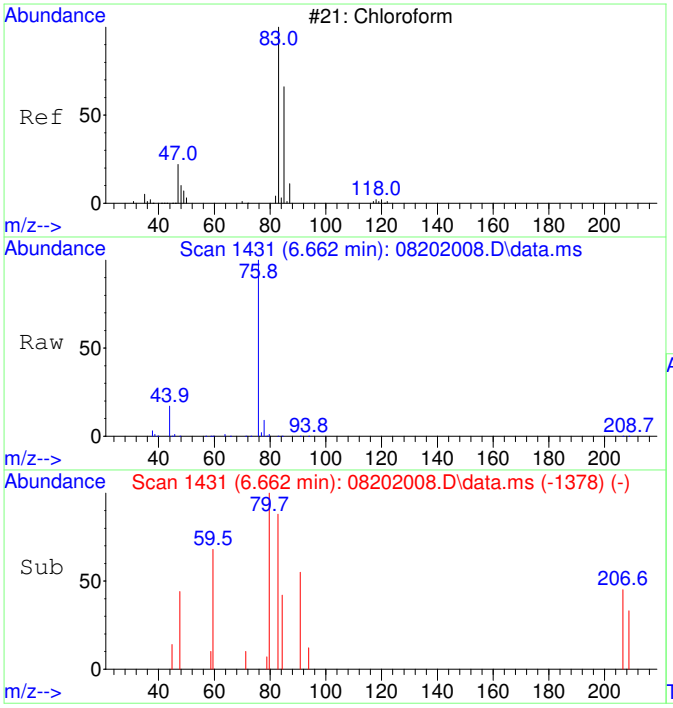
Tgt Ion: 61 Resp: 446

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#





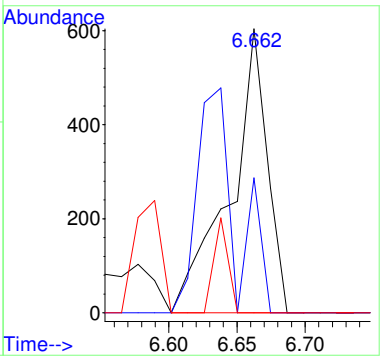


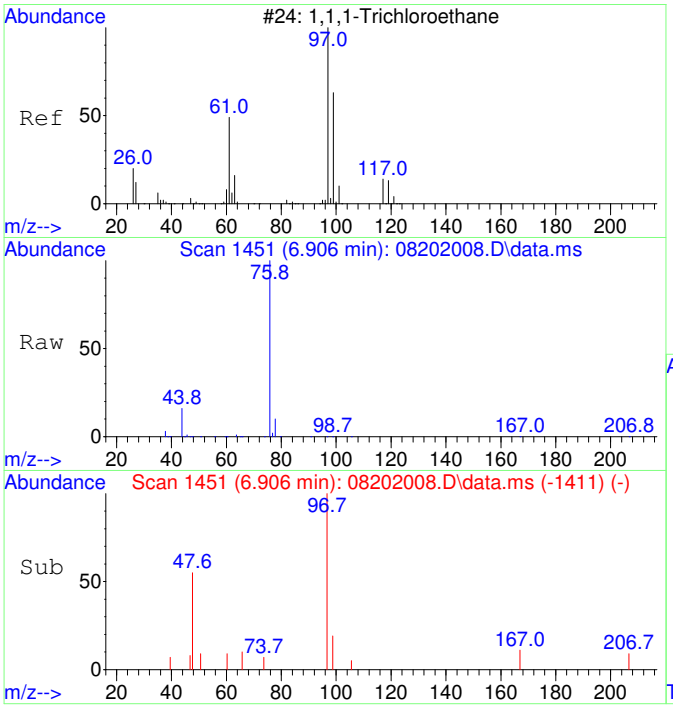


#30
Chloroform SCAN
Concen: 54.98 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

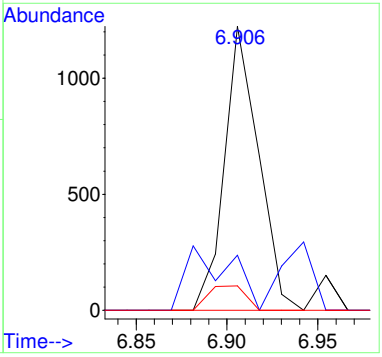


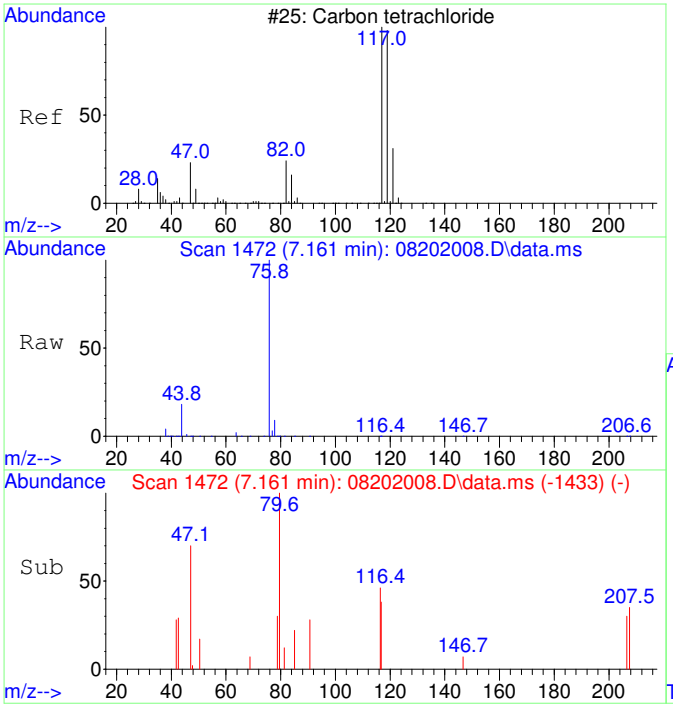


#31
1,1,1-Trichloroethane SCAN
Concen: 84.55 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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#

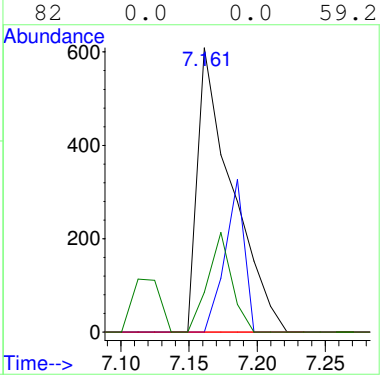


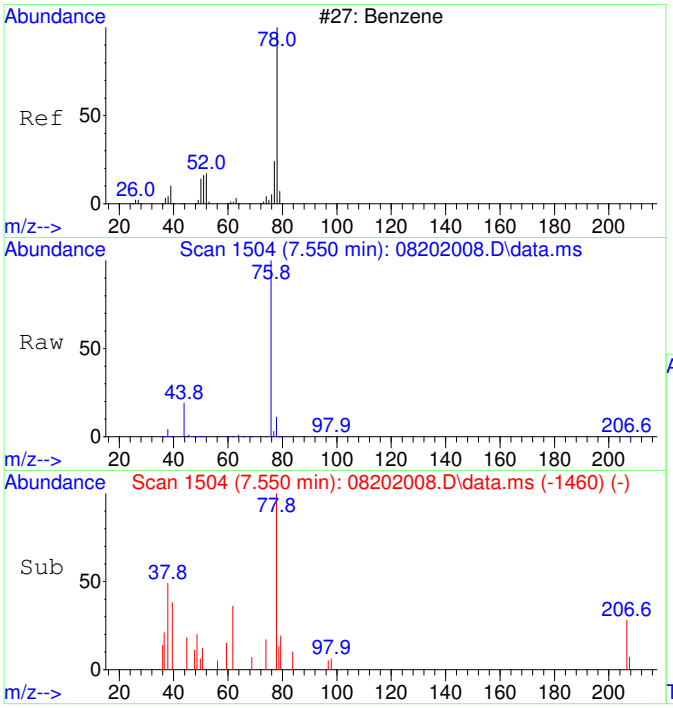


#32
Carbon tetrachloride SCAN
Concen: 54.36 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.024 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

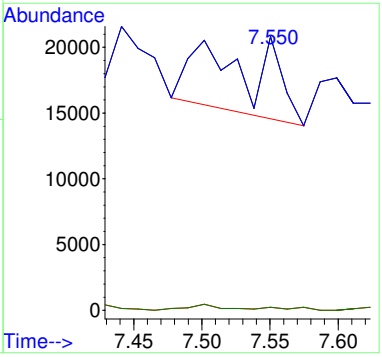


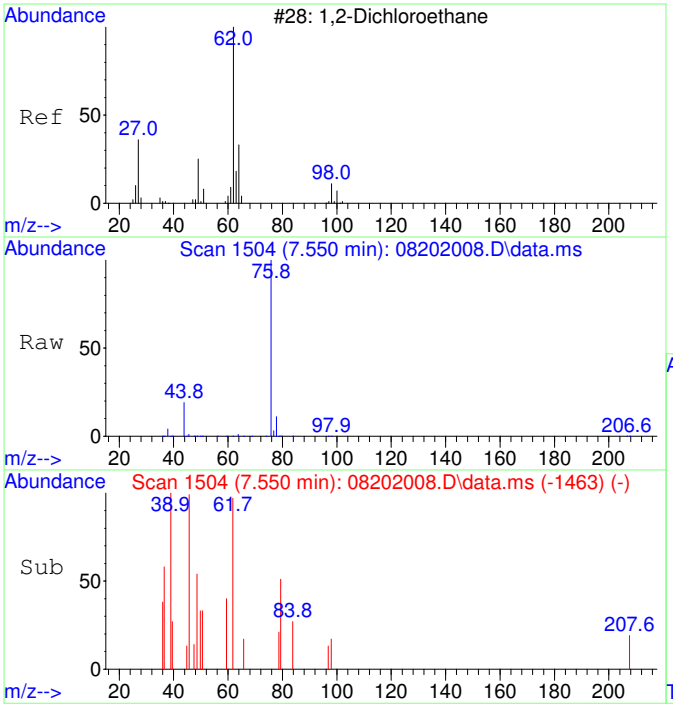


#33
Benzene SCAN
Concen: 320.23 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.037 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

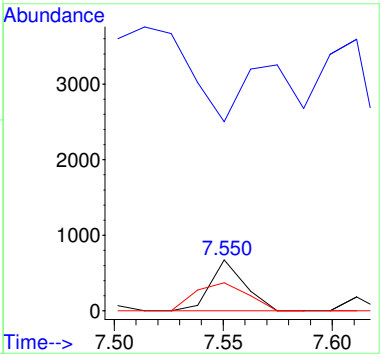


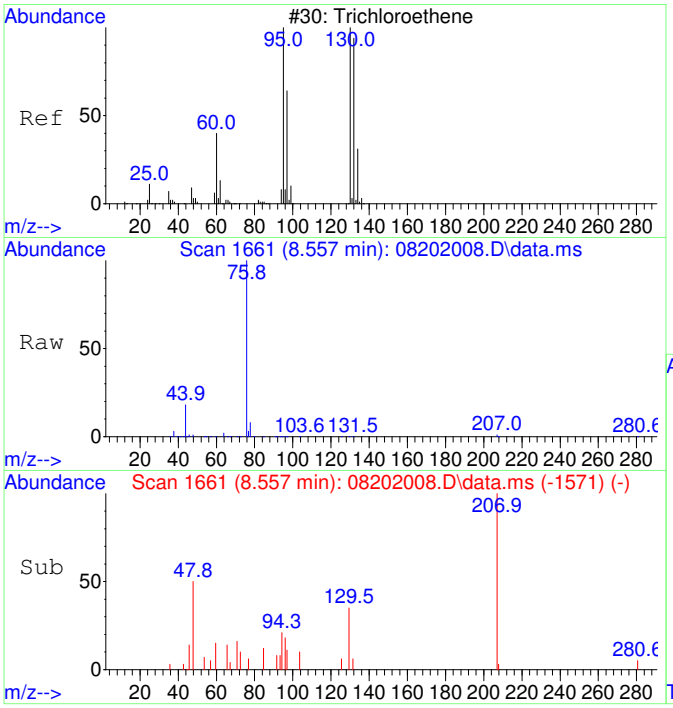


#34
1,2-Dichloroethane SCAN
Concen: 37.96 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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#

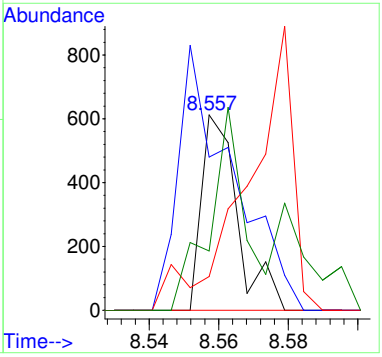


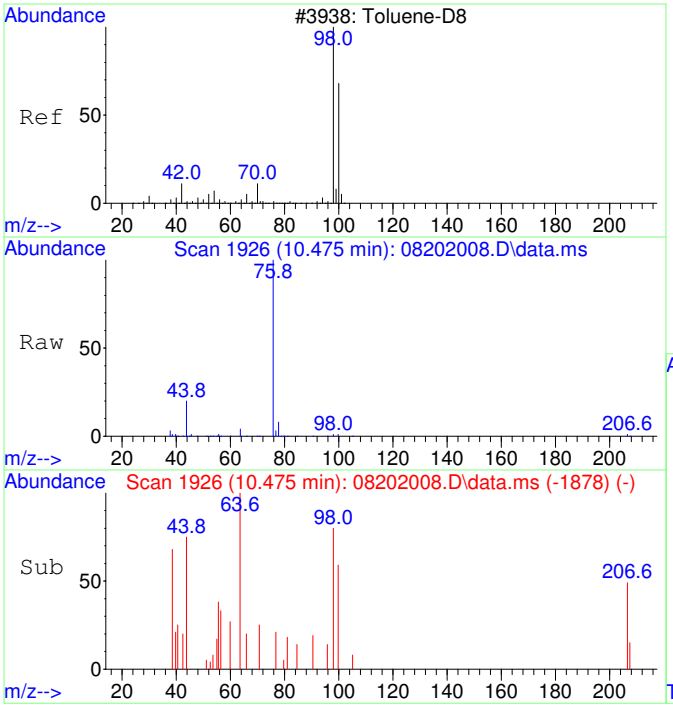


#35
Trichloroethene SCAN
Concen: 30.48 ug/L
RT: 8.557 min Scan# 1661
Delta R.T. -0.011 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

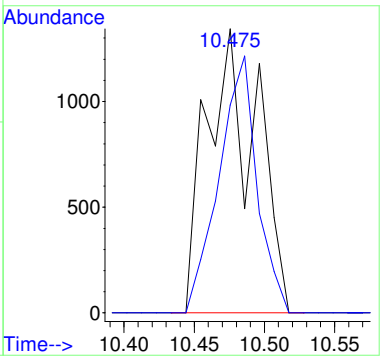


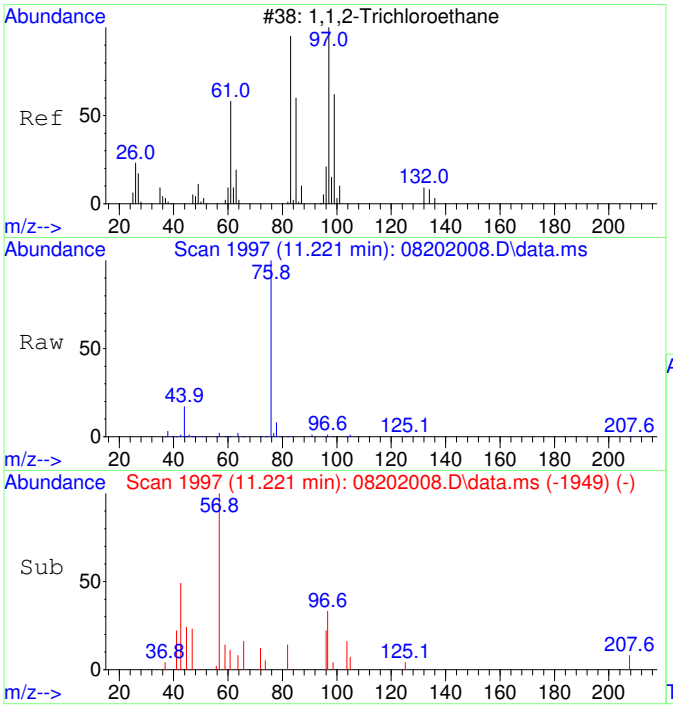


#36
Toluene-d8 SCAN
Concen: 57.48 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 98 Resp: 3315

Ion	Ratio	Lower	Upper
98	100		
100	69.2	40.0	100.0

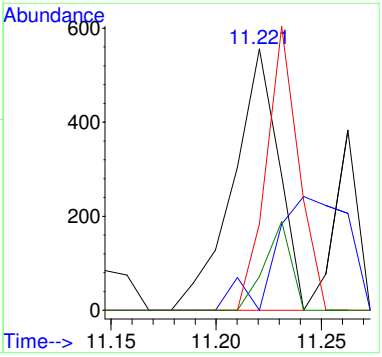


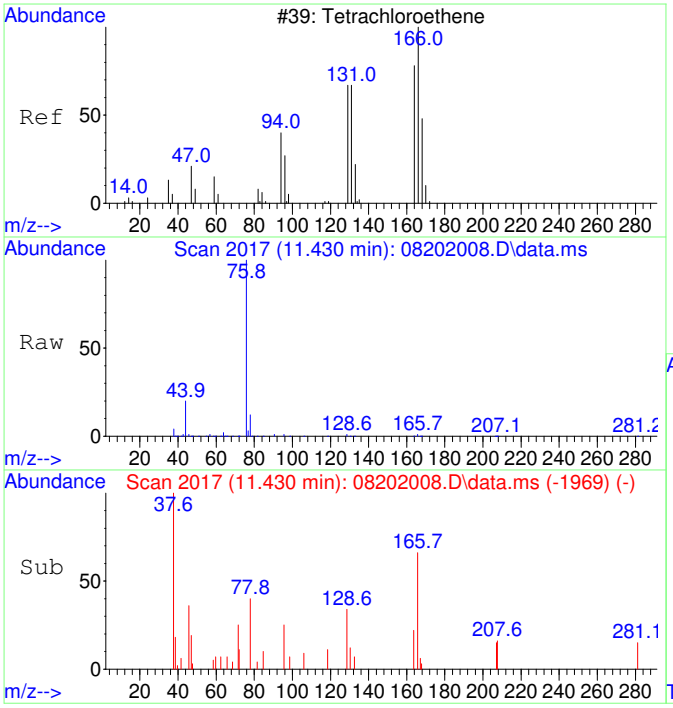


#38
1,1,2-Trichloroethane SCAN
Concen: 50.61 ug/L
RT: 11.221 min Scan# 1997
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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#

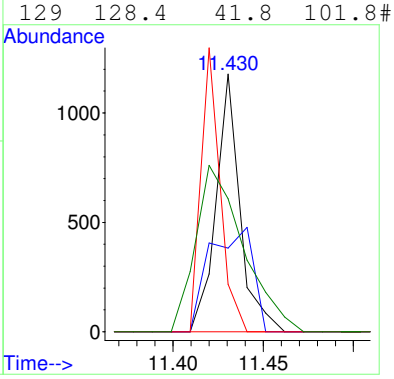


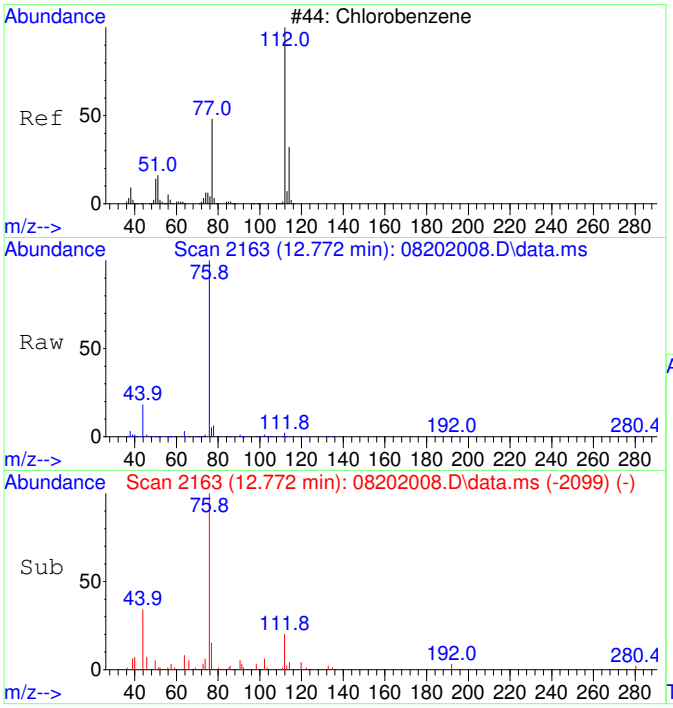


#39
Tetrachloroethene SCAN
Concen: 61.37 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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#

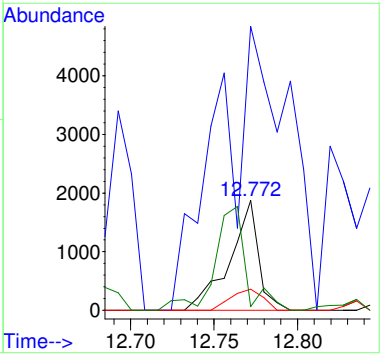


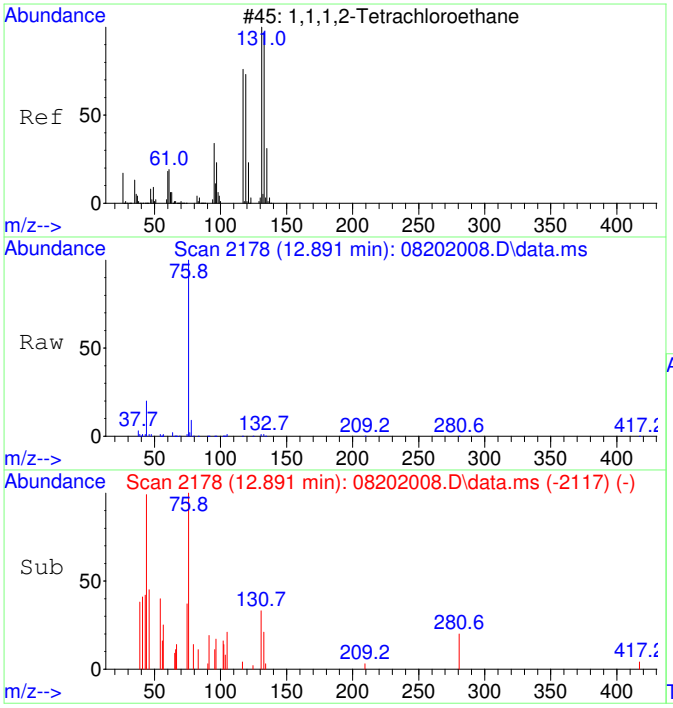


#40
Chlorobenzene SCAN
Concen: 44.78 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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#

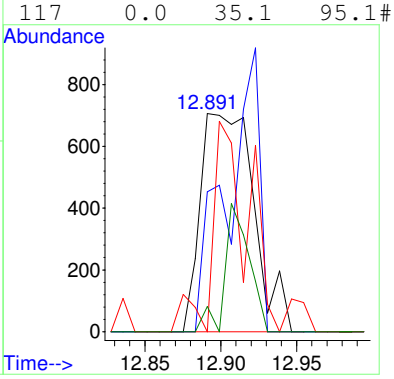


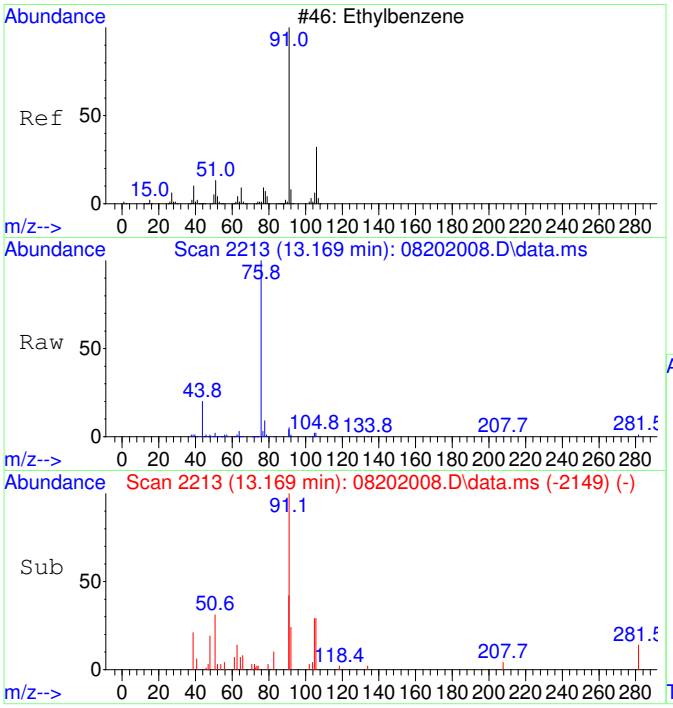


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 93.05 ug/L
RT: 12.891 min Scan# 2178
Delta R.T. -0.016 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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#

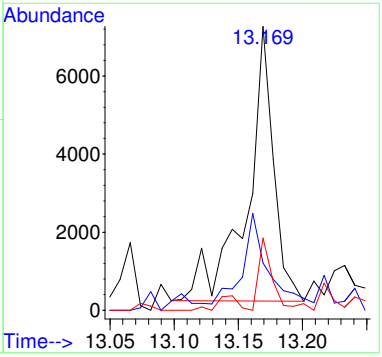


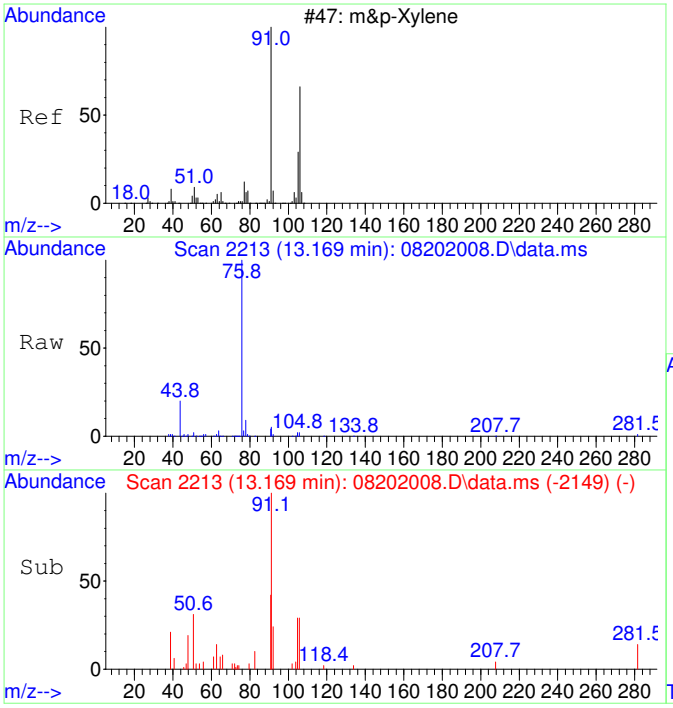


#42
Ethylbenzene SCAN
Concen: 75.40 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

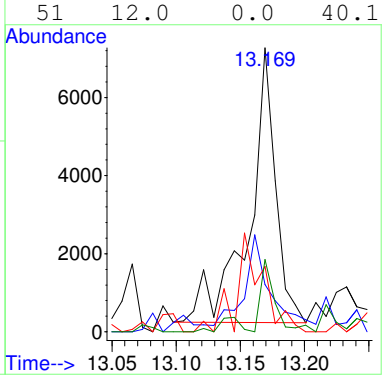


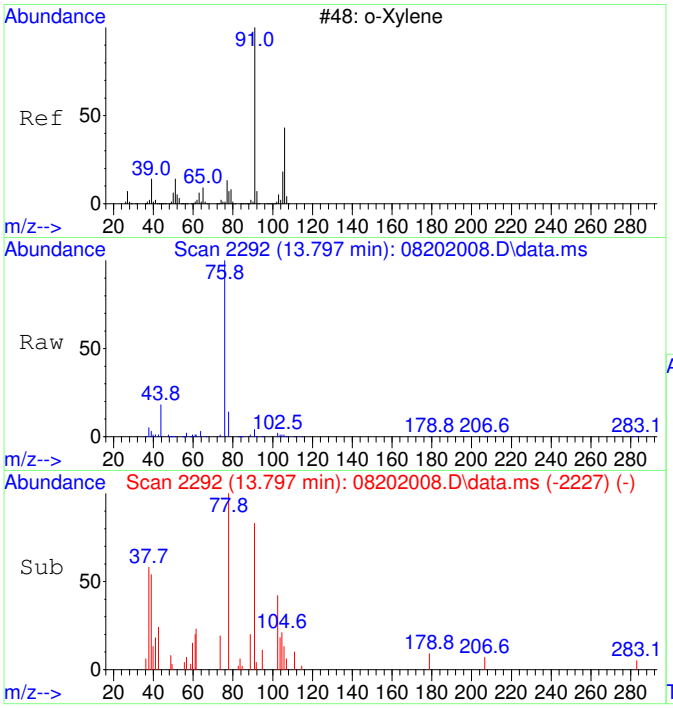


#43
m&p-Xylene SCAN
Concen: 75.40 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

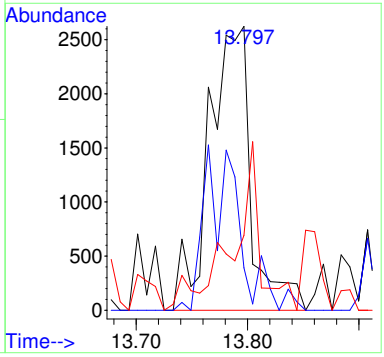


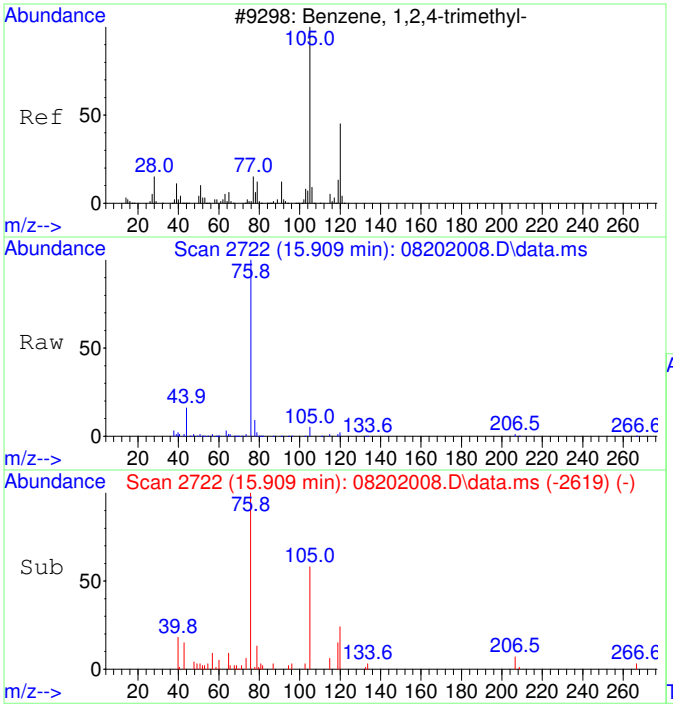


#44
o-Xylene SCAN
Concen: 95.26 ug/L
RT: 13.797 min Scan# 2292
Delta R.T. 0.016 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

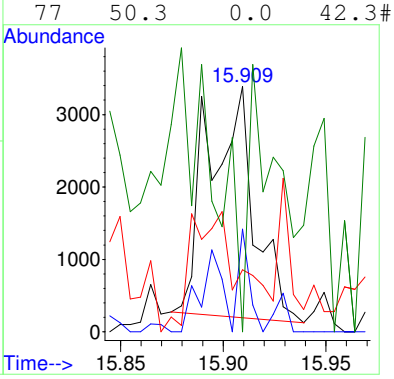


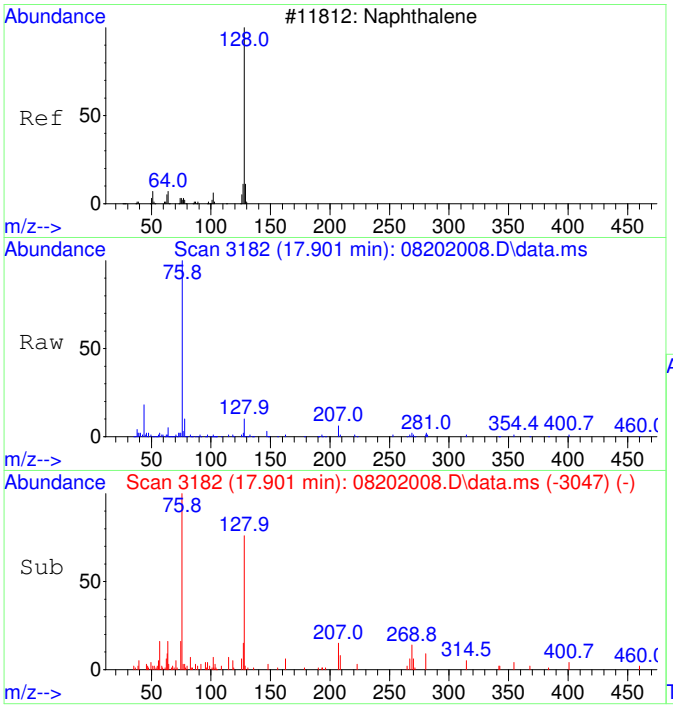


#47
1,2,4-Trimethylbenzene SCAN
Concen: 63.32 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.010 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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#

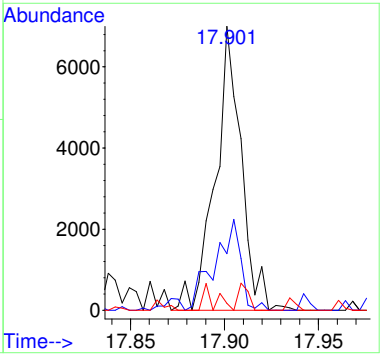




#48
Naphthalene SCAN
Concen: 57.30 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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)

Table of Contents

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

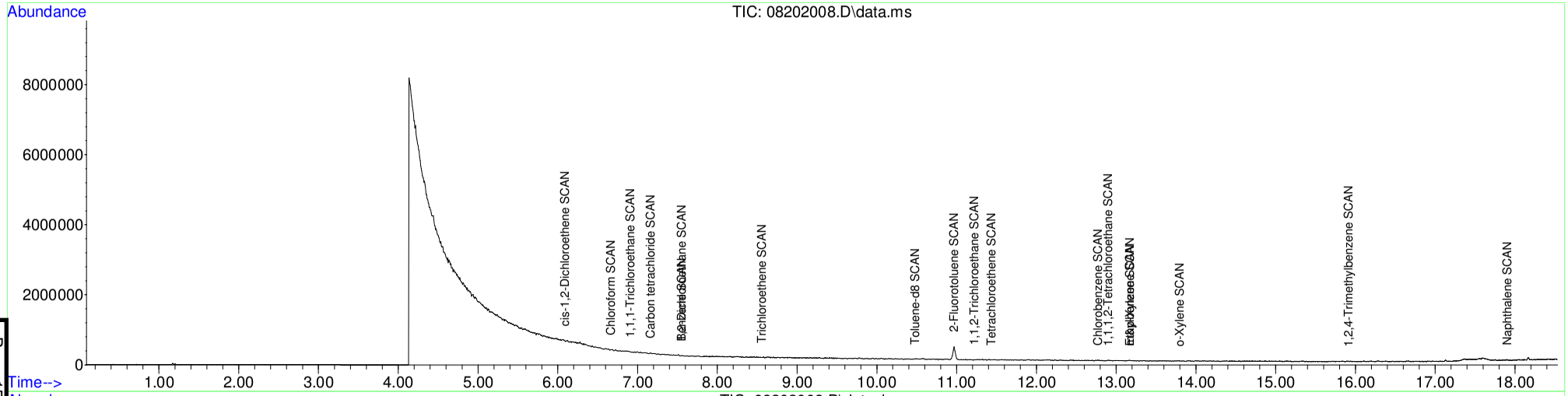
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	604968	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	5849	49.39	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	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



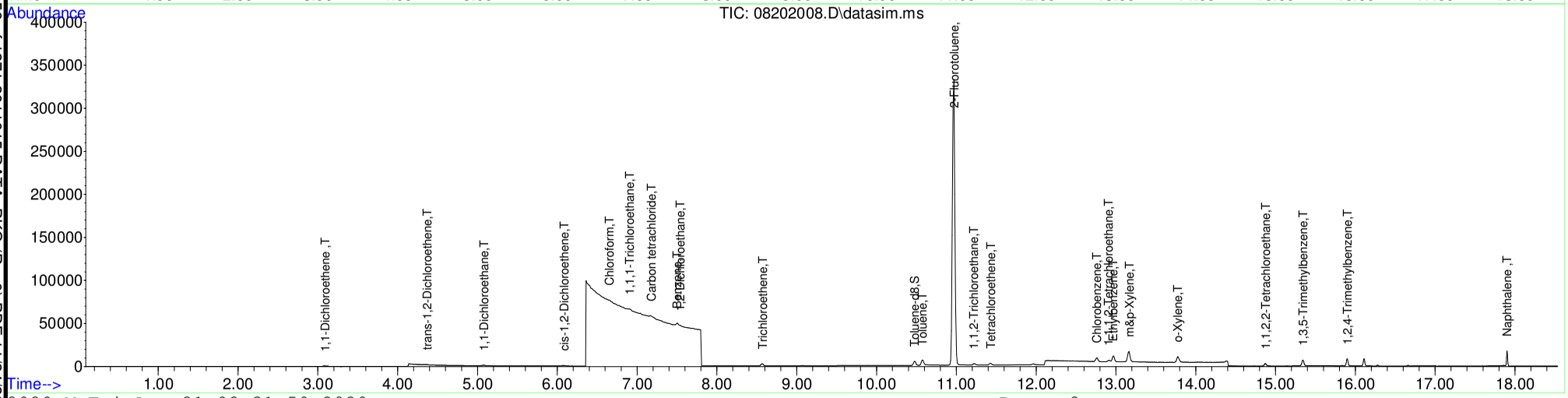
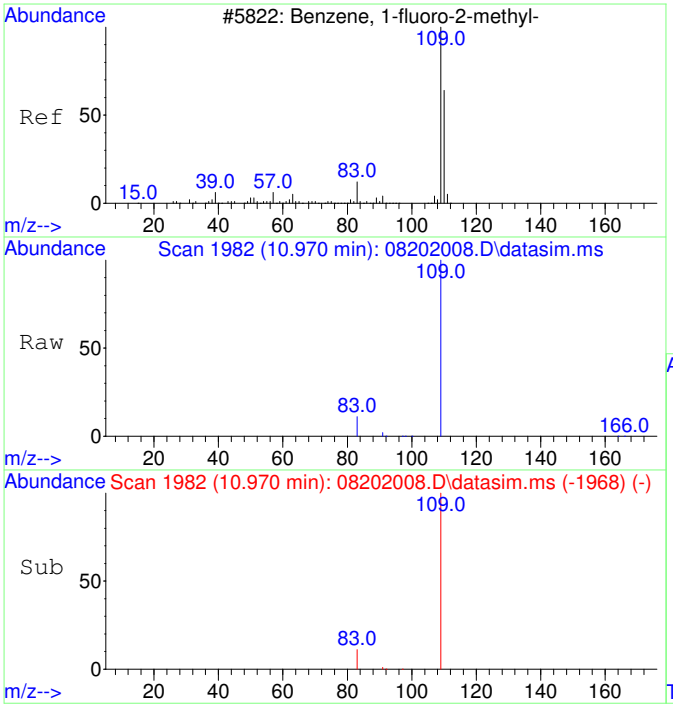


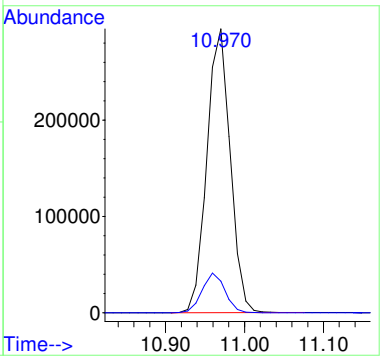
Table of Contents

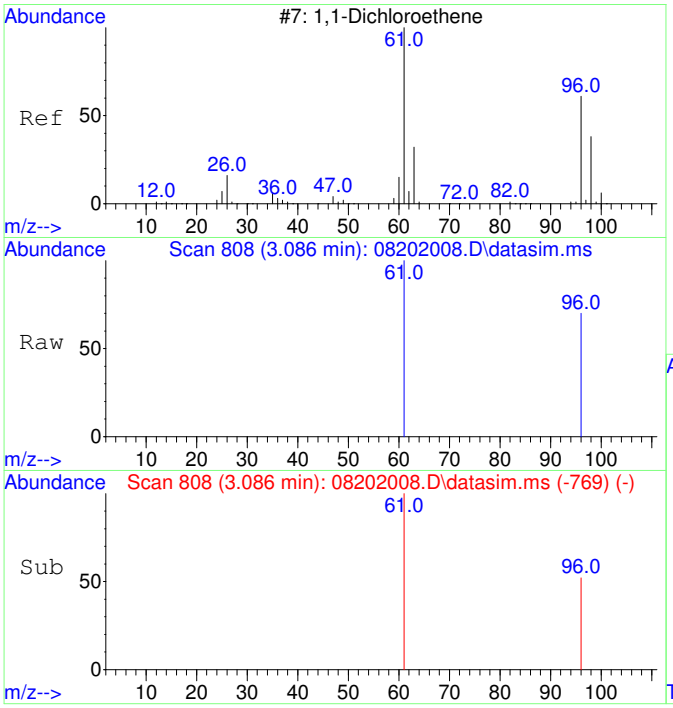


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:109 Resp: 604968

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

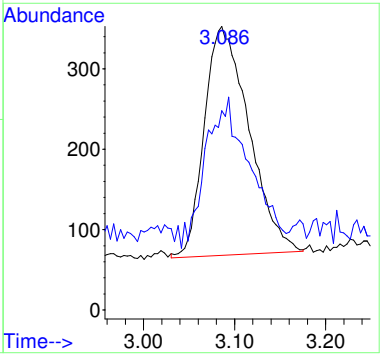


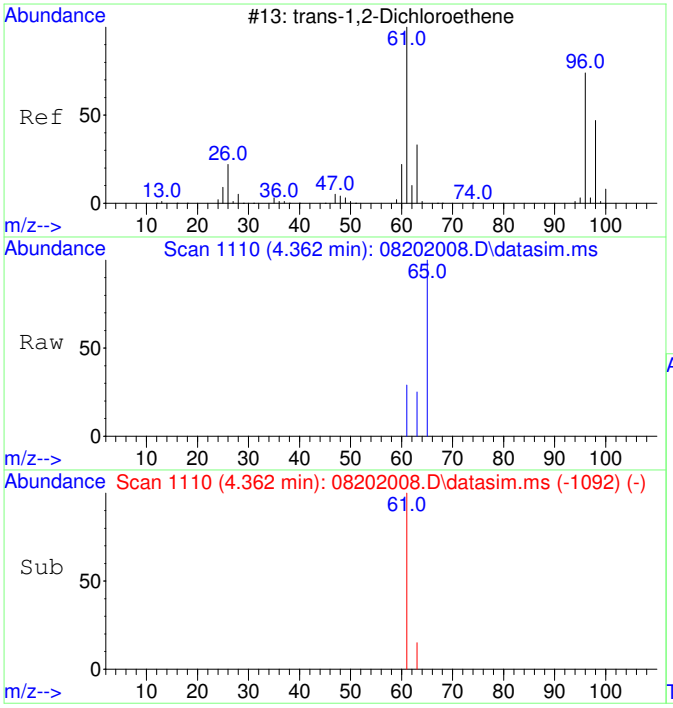


#2
1,1-Dichloroethene
Concen: 36.47 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. -0.004 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 61 Resp: 970

Ion	Ratio	Lower	Upper
61	100		
96	85.9	37.2	97.2

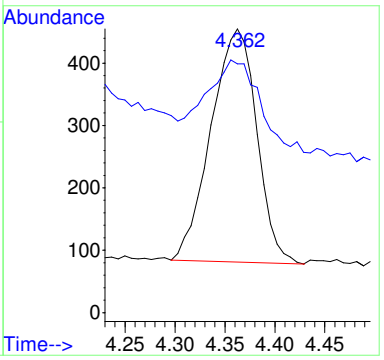


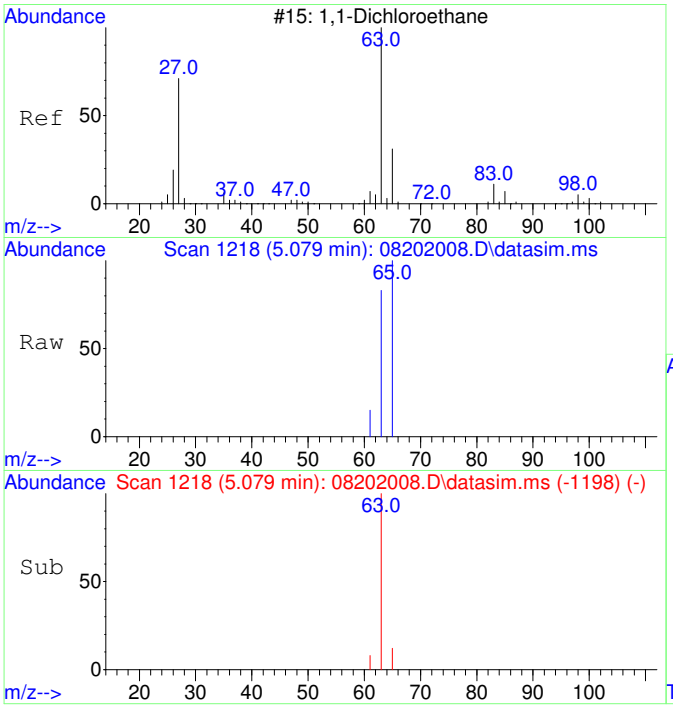


#3
trans-1,2-Dichloroethene
Concen: 42.71 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. -0.033 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 61 Resp: 1192

Ion	Ratio	Lower	Upper
61	100		
63	48.7	2.4	62.4

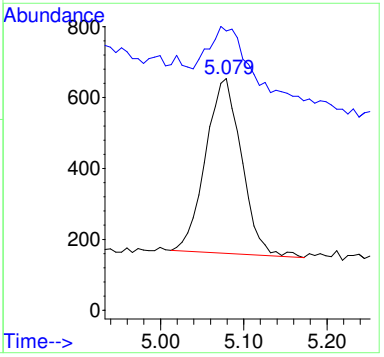


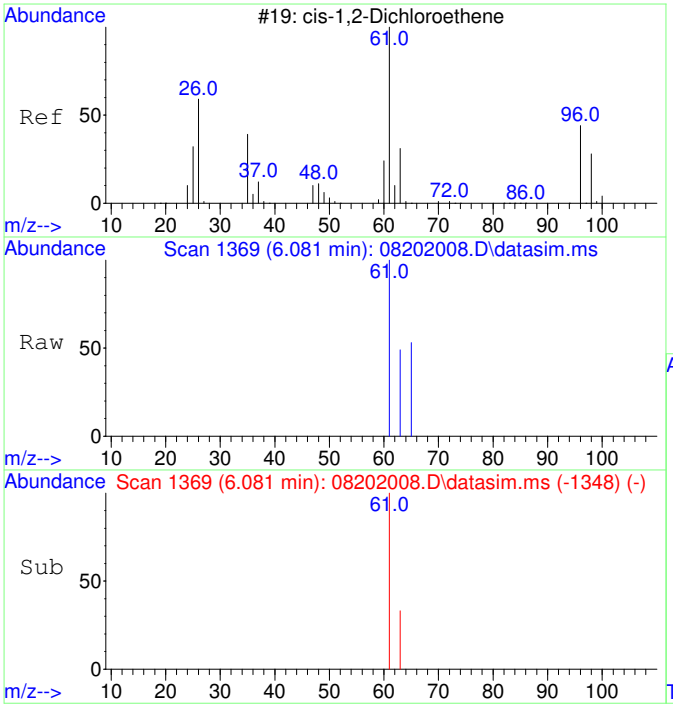


#4
1,1-Dichloroethane
Concen: 42.45 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 63 Resp: 1475

Ion	Ratio	Lower	Upper
63	100		
65	76.1	1.8	61.8#

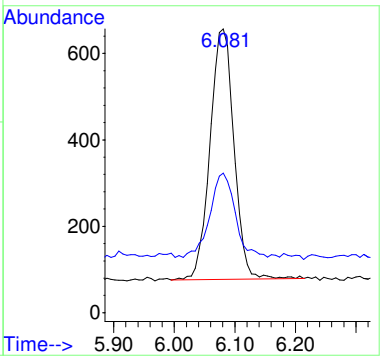


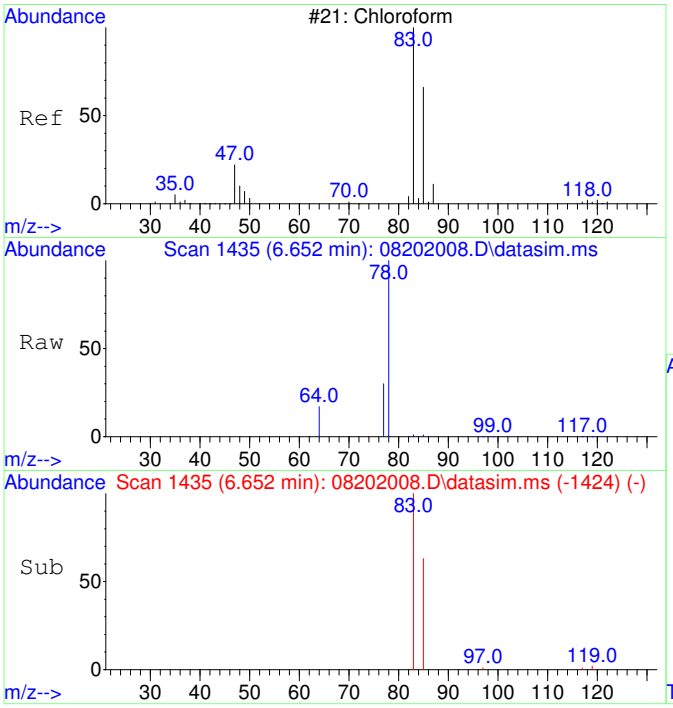


#5
cis-1,2-Dichloroethene
Concen: 43.46 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 61 Resp: 1594

Ion	Ratio	Lower	Upper
61	100		
63	35.1	2.5	62.5

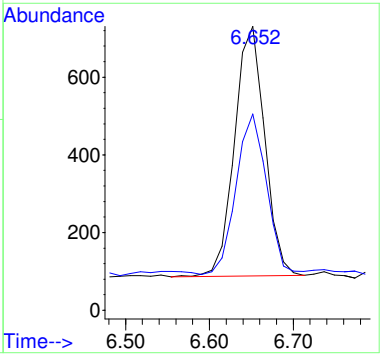


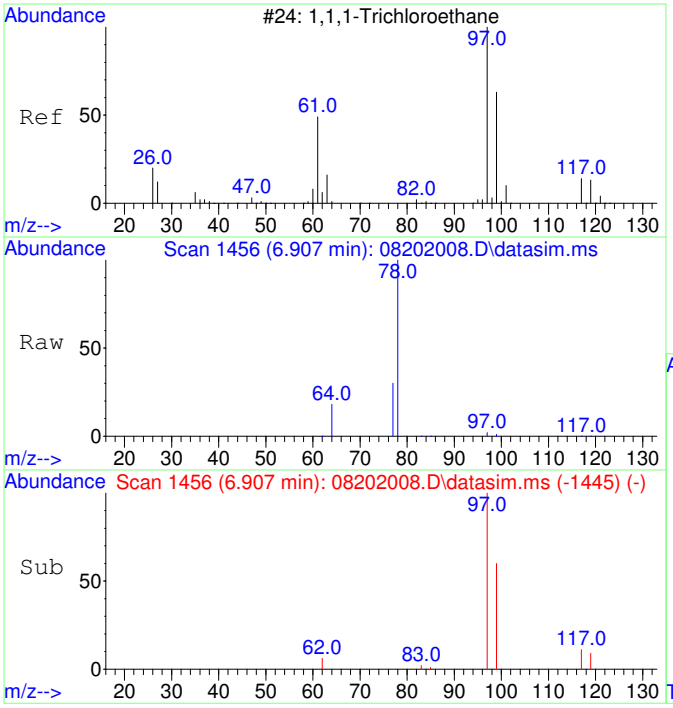


#6
Chloroform
Concen: 42.78 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 83 Resp: 1606

Ion	Ratio	Lower	Upper
83	100		
85	64.9	35.1	95.1

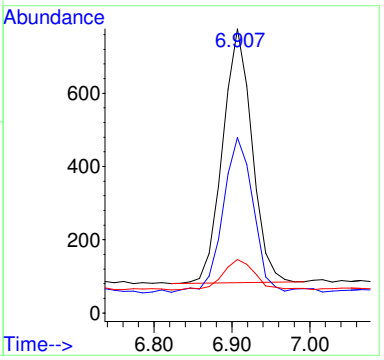


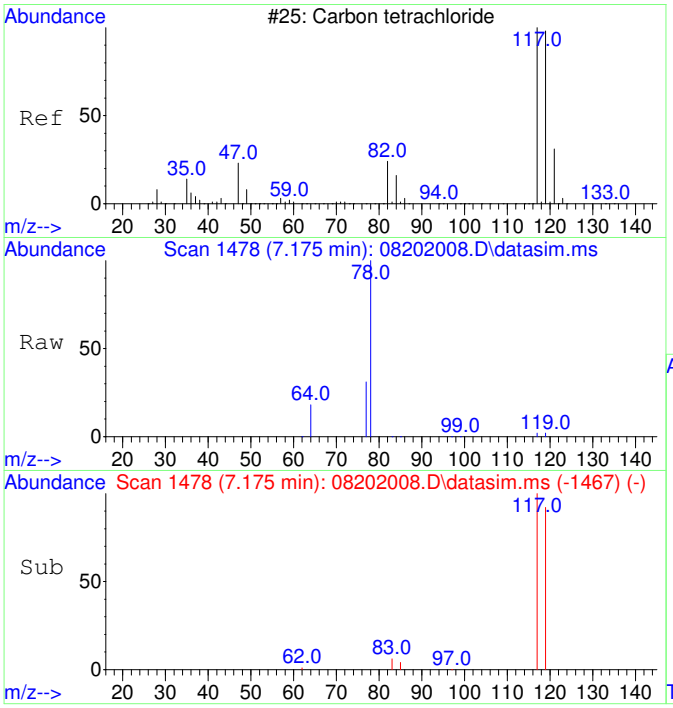


#7
1,1,1-Trichloroethane
Concen: 44.60 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

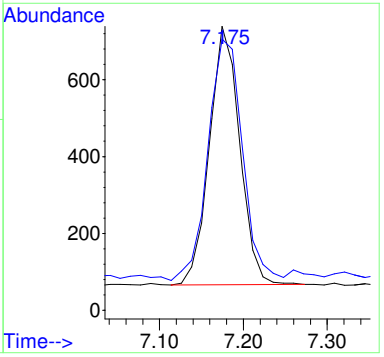


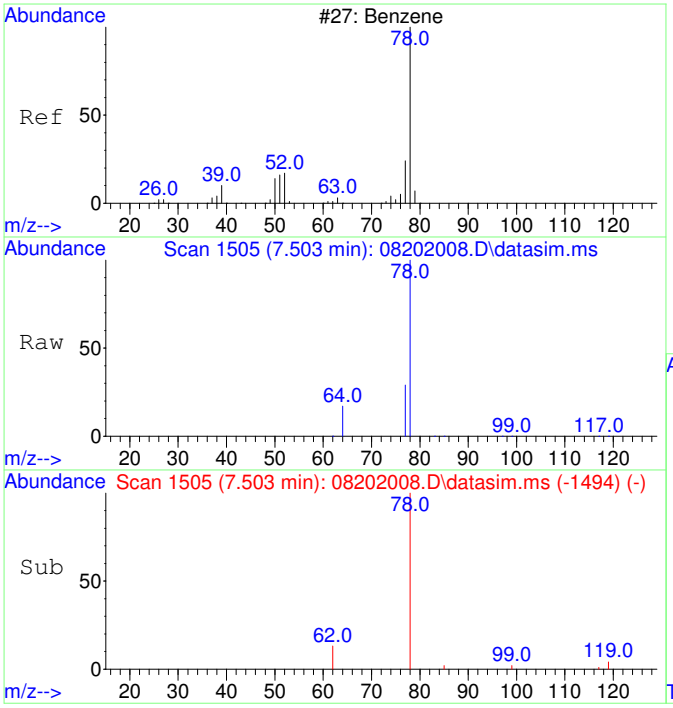


#8
Carbon tetrachloride
Concen: 43.79 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:117 Resp: 1680

Ion	Ratio	Lower	Upper
117	100		
119	105.9	66.4	126.4

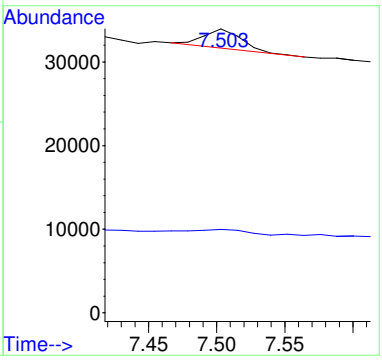


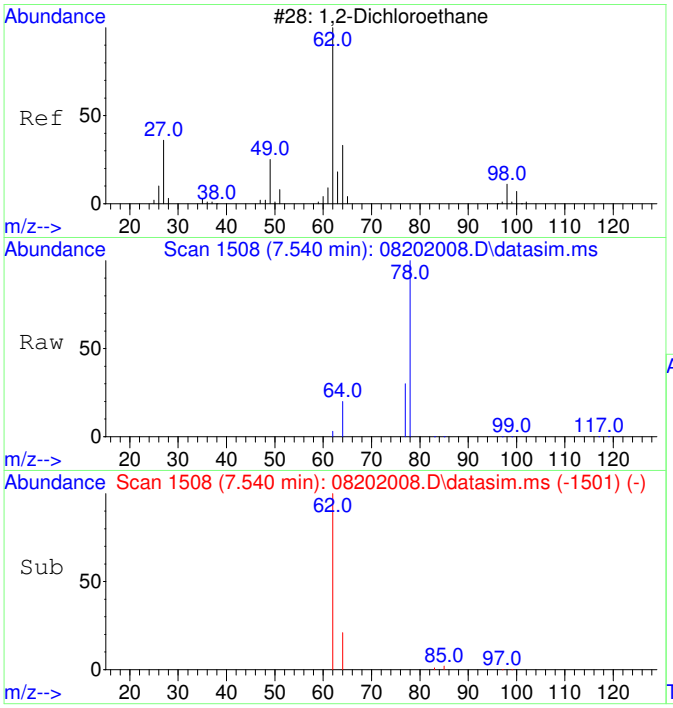


#9
Benzene
Concen: 37.10 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 78 Resp: 3813

Ion	Ratio	Lower	Upper
78	100		
77	99.1	0.0	53.2#

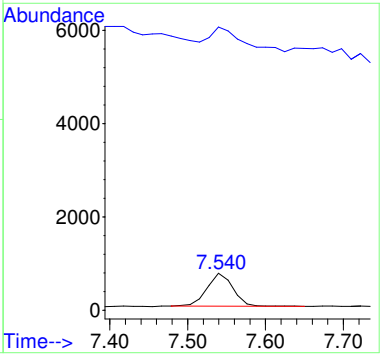


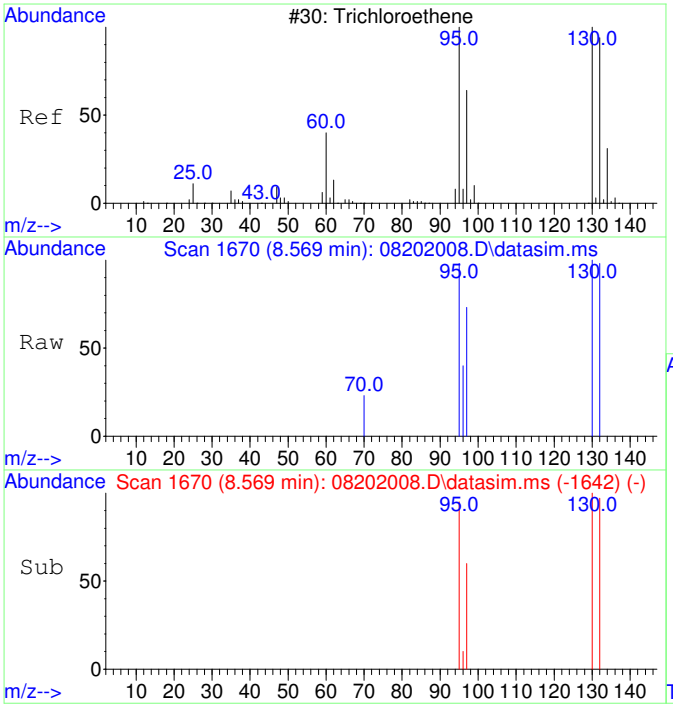


#10
1,2-Dichloroethane
Concen: 43.69 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 62 Resp: 1603

Ion	Ratio	Lower	Upper
62	100		
64	90.9	2.3	62.3#

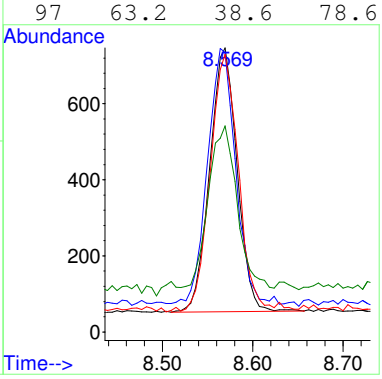


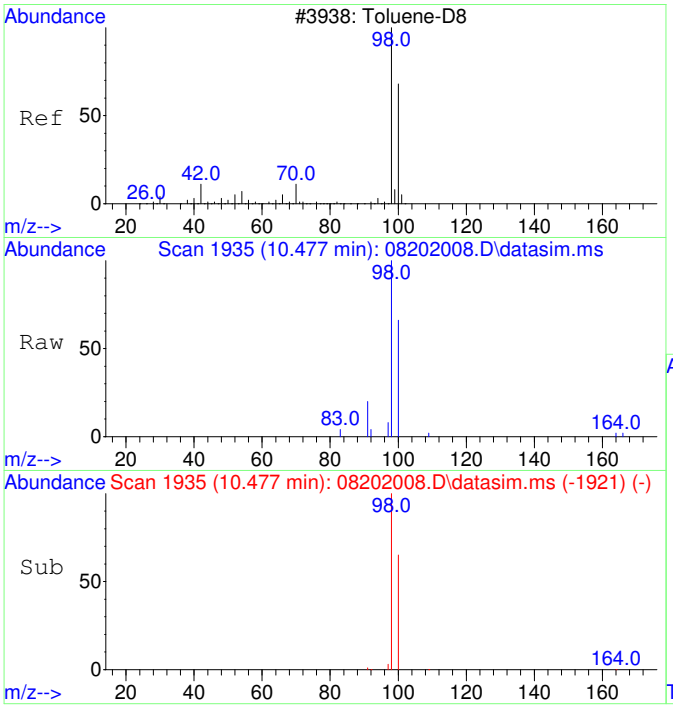


#11
Trichloroethene
Concen: 47.31 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

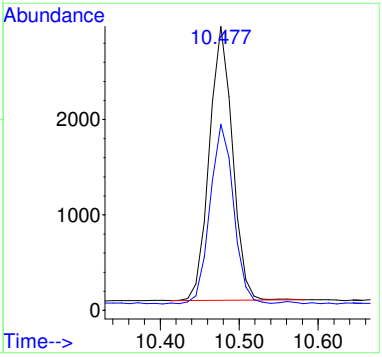


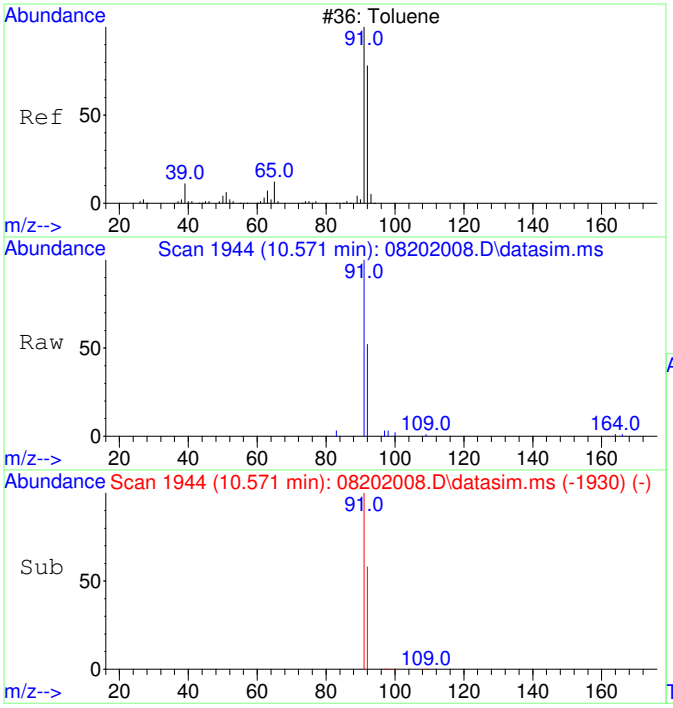


#12
Toluene-d8
Concen: 49.39 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 98 Resp: 5849

Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1

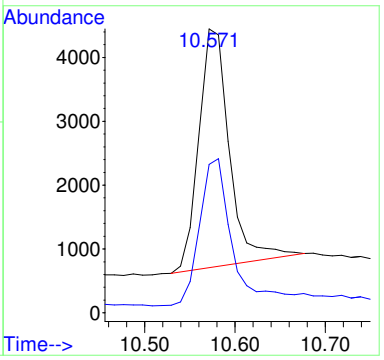


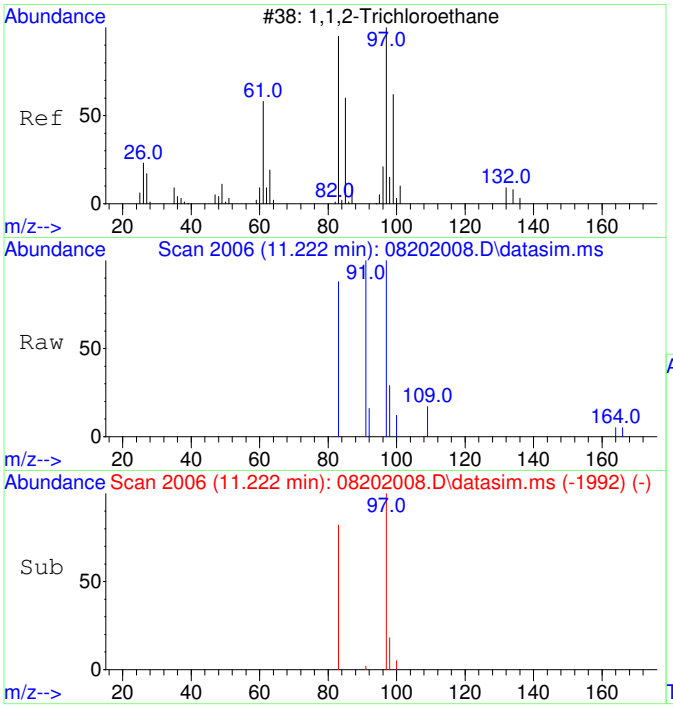


#13
Toluene
Concen: 58.81 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 8880

Ion	Ratio	Lower	Upper
91	100		
92	66.5	29.9	89.9

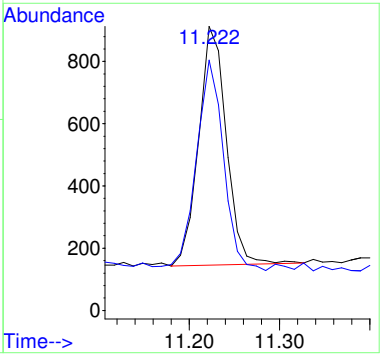


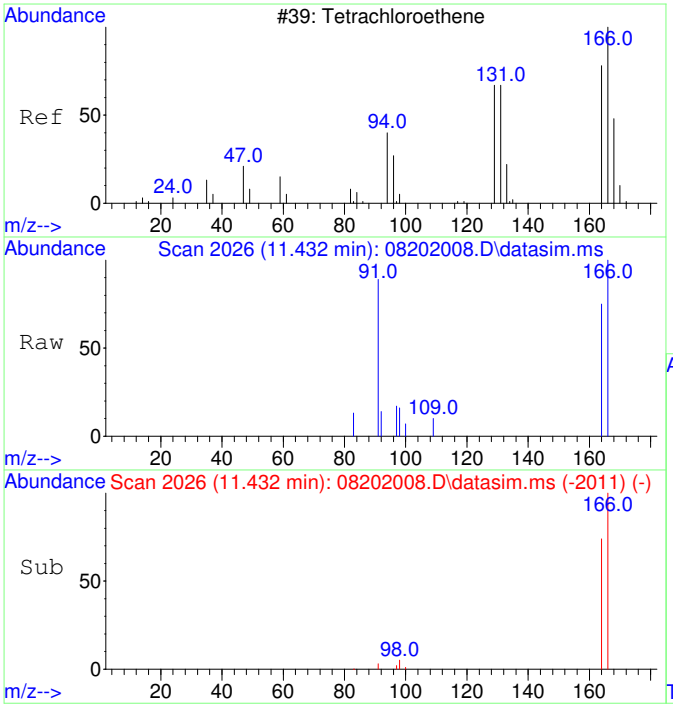


#14
1,1,2-Trichloroethane
Concen: 49.61 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 97 Resp: 1632

Ion	Ratio	Lower	Upper
97	100		
83	87.4	51.2	111.2

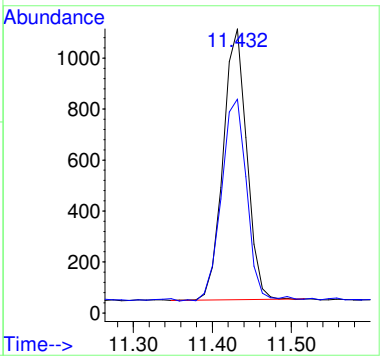


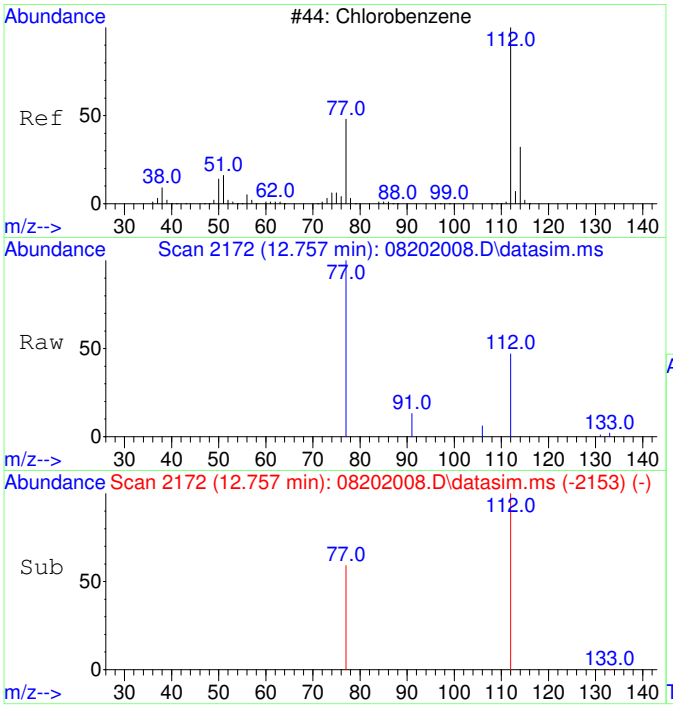


#15
Tetrachloroethene
Concen: 50.49 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:166 Resp: 2206

Ion	Ratio	Lower	Upper
166	100		
164	78.9	47.8	107.8

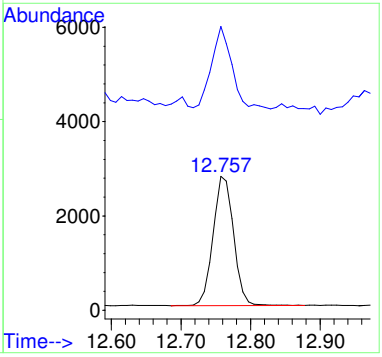


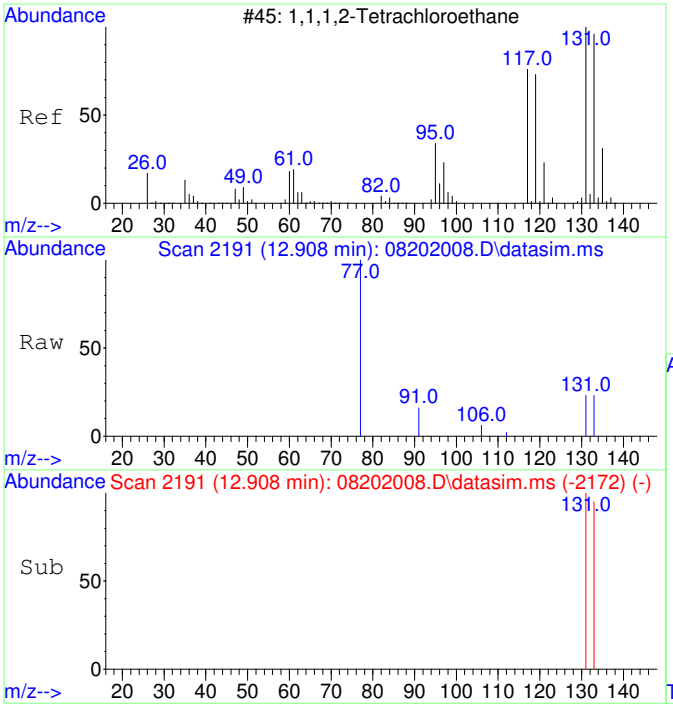


#16
Chlorobenzene
Concen: 51.95 ug/L
RT: 12.757 min Scan# 2172
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:112 Resp: 5616

Ion	Ratio	Lower	Upper
112	100		
77	63.2	23.6	83.6

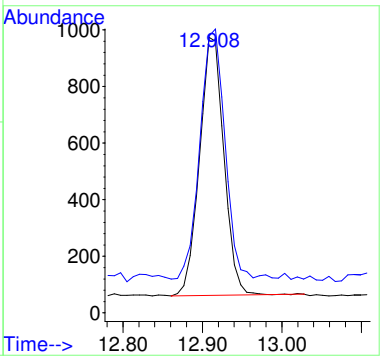


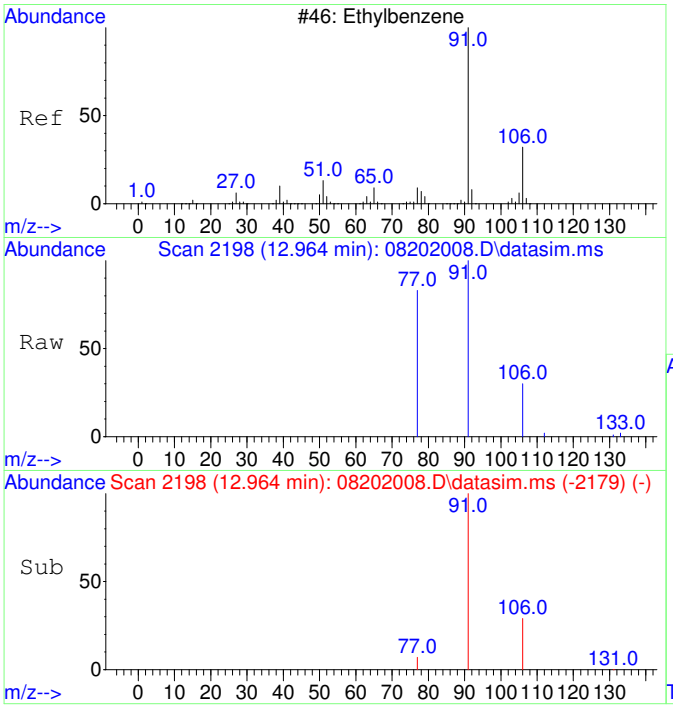


#17
1,1,1,2-Tetrachloroethane
Concen: 49.98 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:131 Resp: 1936

Ion	Ratio	Lower	Upper
131	100		
133	99.2	66.3	126.3

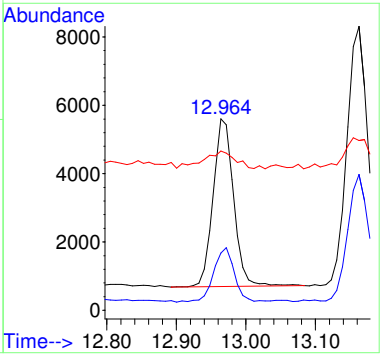


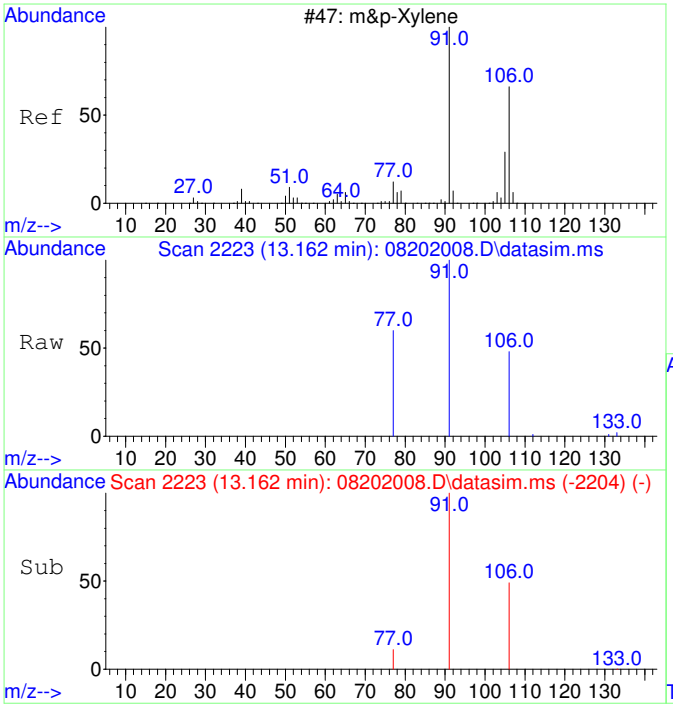


#18
Ethylbenzene
Concen: 54.85 ug/L
RT: 12.964 min Scan# 2198
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

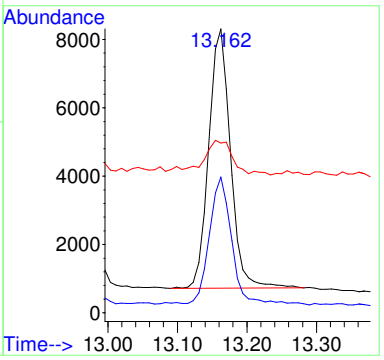


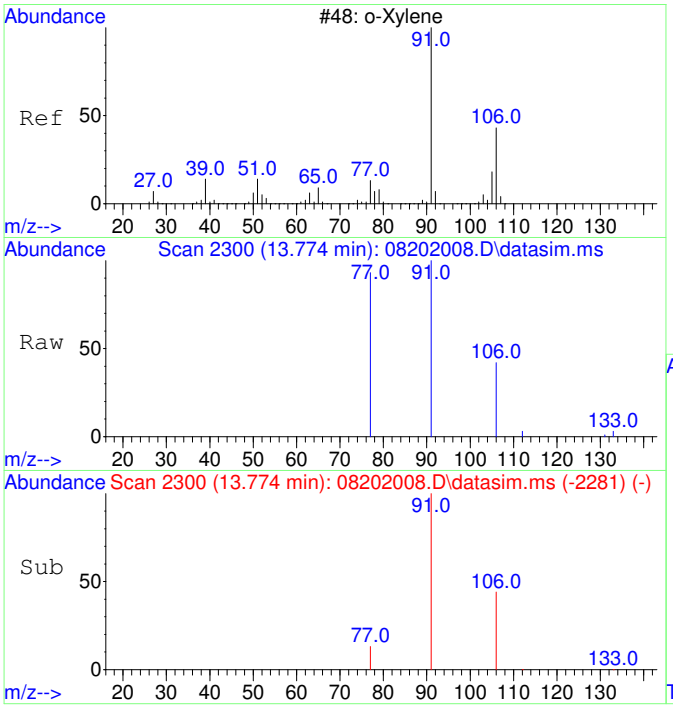


#19
m&p-Xylene
Concen: 114.72 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

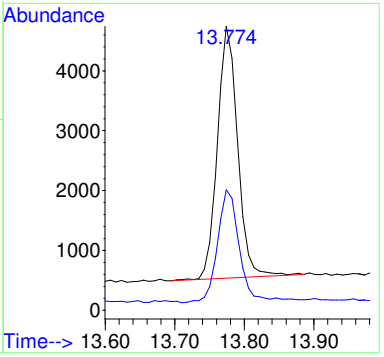


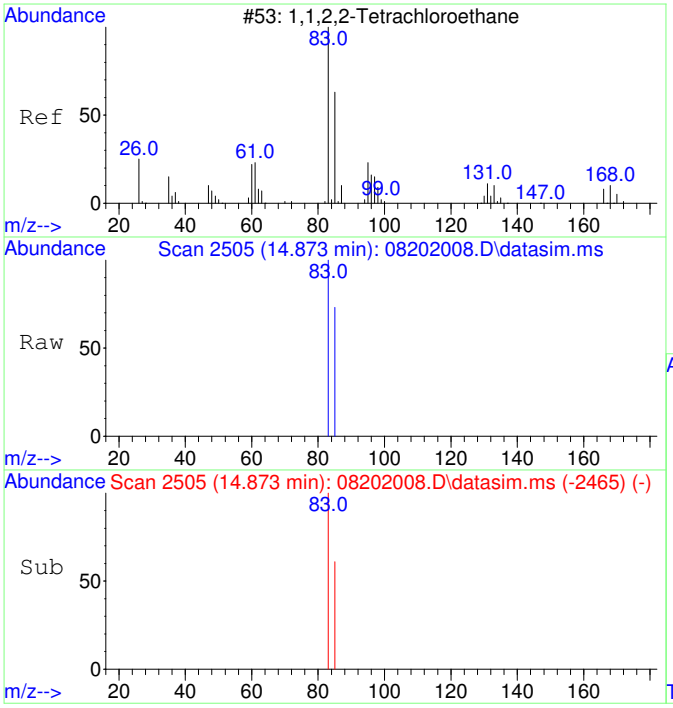


#20
o-Xylene
Concen: 55.46 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 91 Resp: 8511

Ion	Ratio	Lower	Upper
91	100		
106	47.6	19.2	79.2

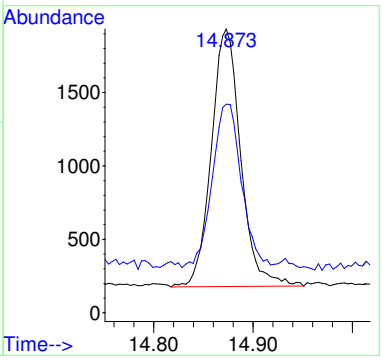


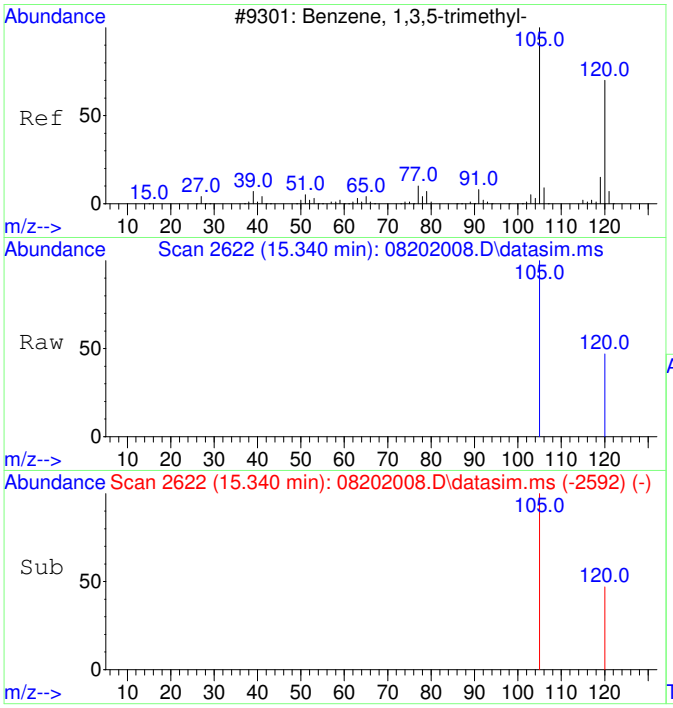


#21
1,1,2,2-Tetrachloroethane
Concen: 52.99 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 83 Resp: 3604

Ion	Ratio	Lower	Upper
83	100		
85	63.3	34.8	94.8

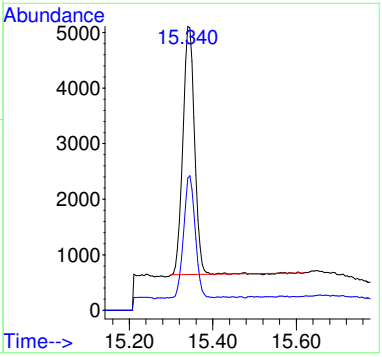


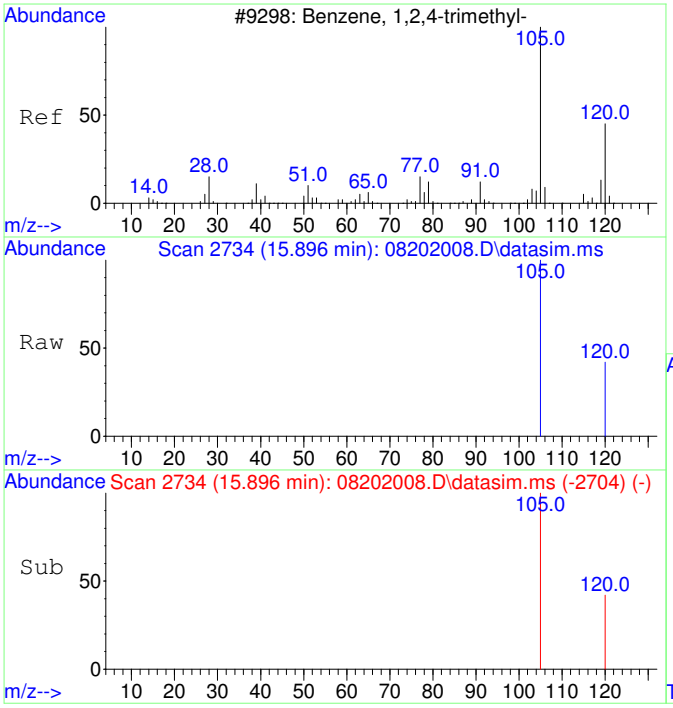


#22
1,3,5-Trimethylbenzene
Concen: 52.84 ug/L
RT: 15.340 min Scan# 2622
Delta R.T. -0.005 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:105 Resp: 8630

Ion	Ratio	Lower	Upper
105	100		
120	47.6	21.1	81.1

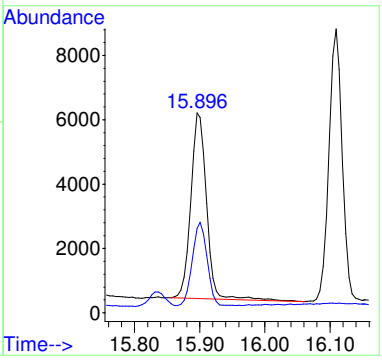


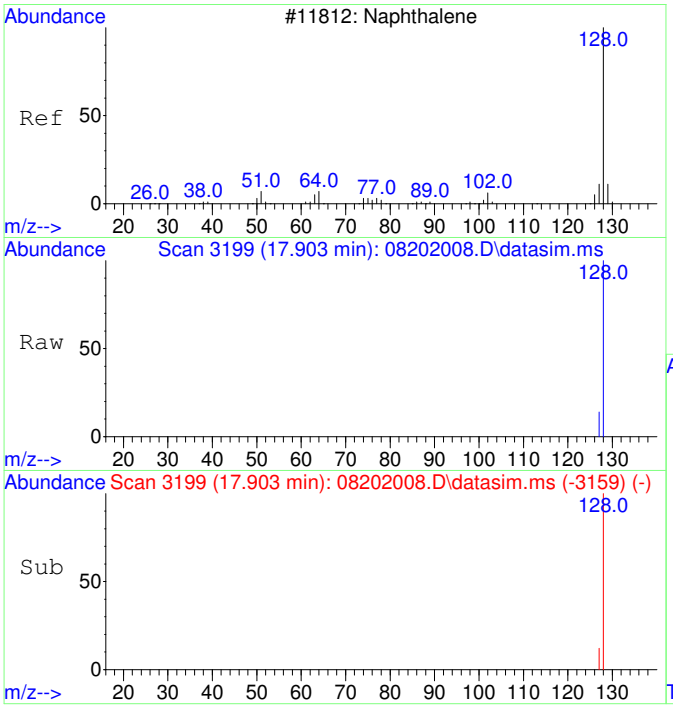


#23
1,2,4-Trimethylbenzene
Concen: 56.95 ug/L
RT: 15.896 min Scan# 2734
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:105 Resp: 9662

Ion	Ratio	Lower	Upper
105	100		
120	41.8	17.2	77.2

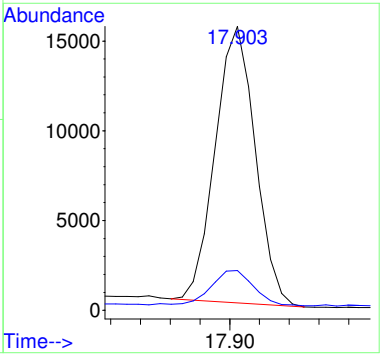


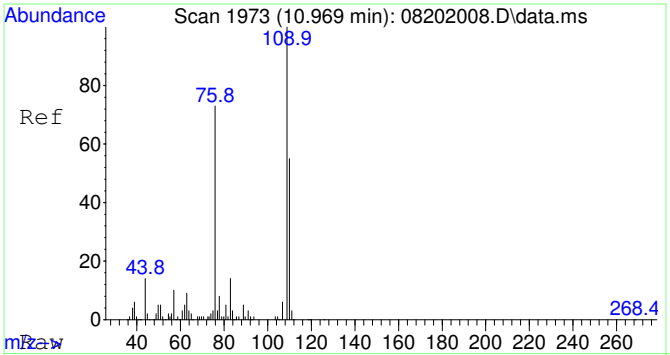


#24
Naphthalene
Concen: 53.59 ug/L
RT: 17.903 min Scan# 3199
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:128 Resp: 14370

Ion	Ratio	Lower	Upper
128	100		
127	13.4	0.0	42.5

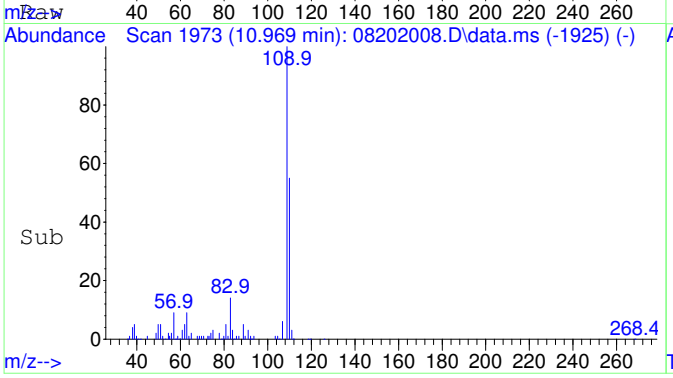


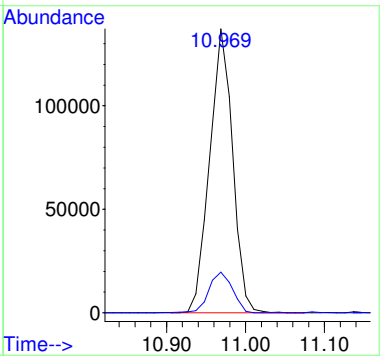


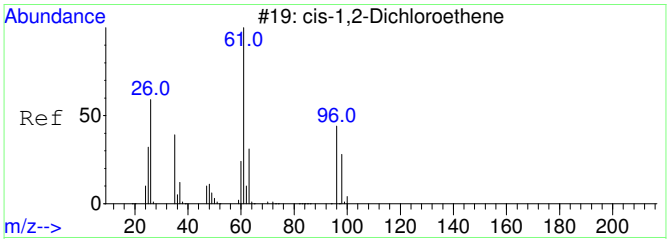
#25
2-Fluorotoluene SCAN
Concen: 4686.70 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion:109 Resp: 276390

Ion	Ratio	Lower	Upper
109	100		
83	14.8	0.0	43.8



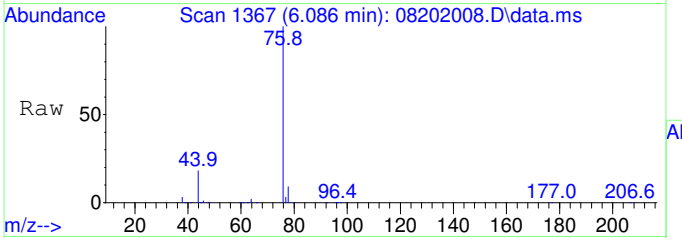


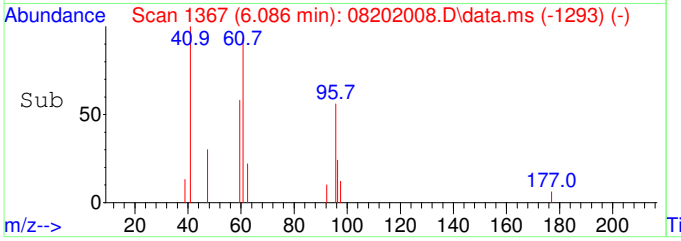


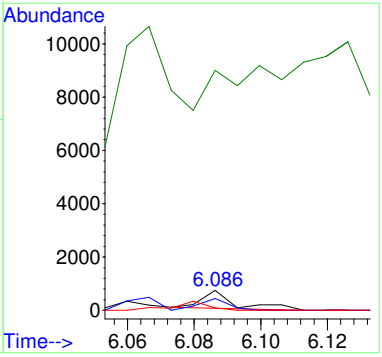
#29
cis-1,2-Dichloroethene SCAN
Concen: 23.21 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

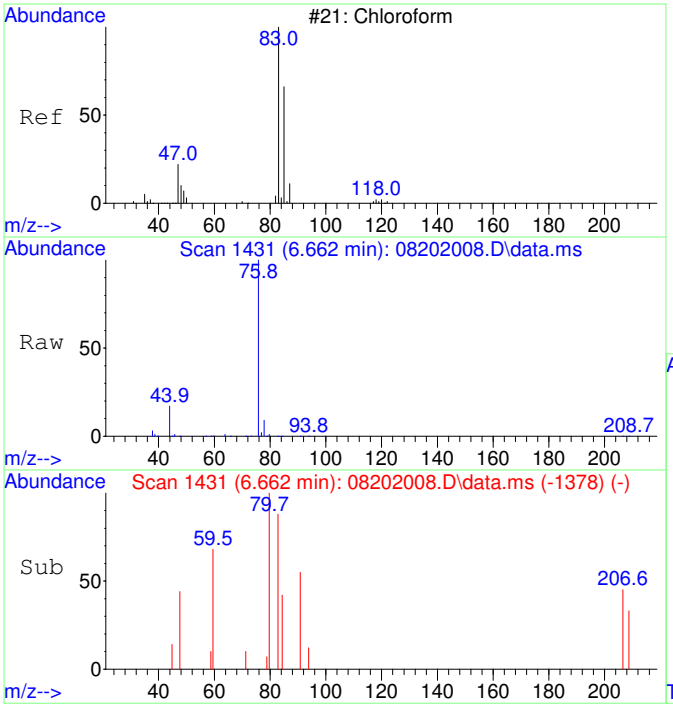
Tgt Ion: 61 Resp: 446

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#





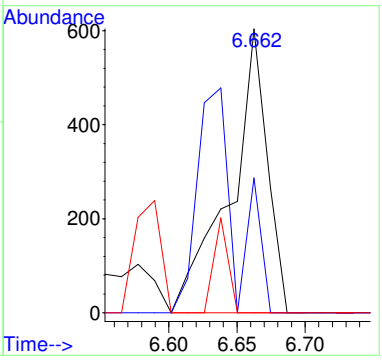


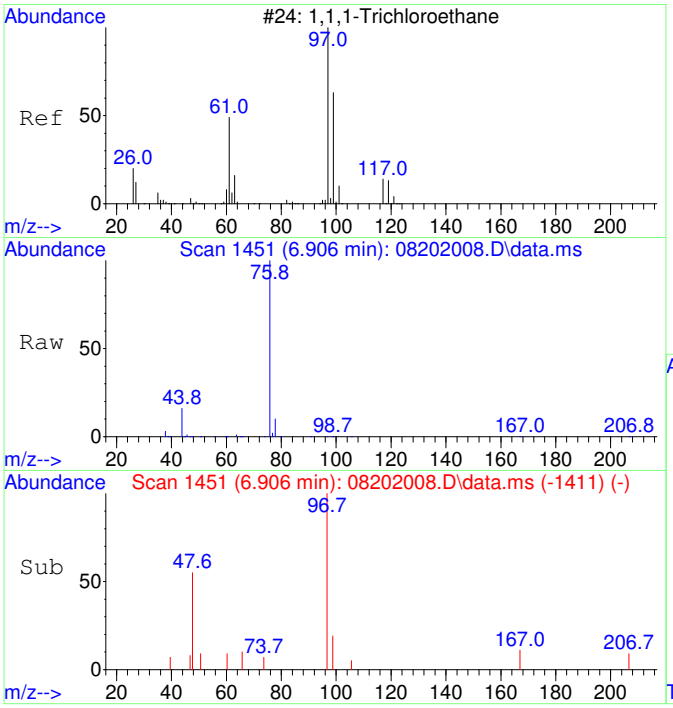


#30
Chloroform SCAN
Concen: 54.98 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

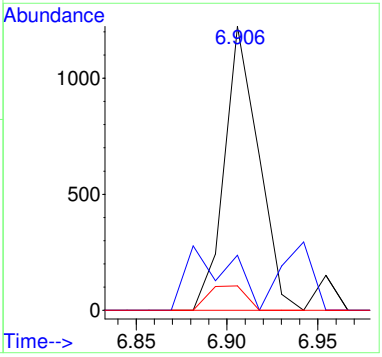


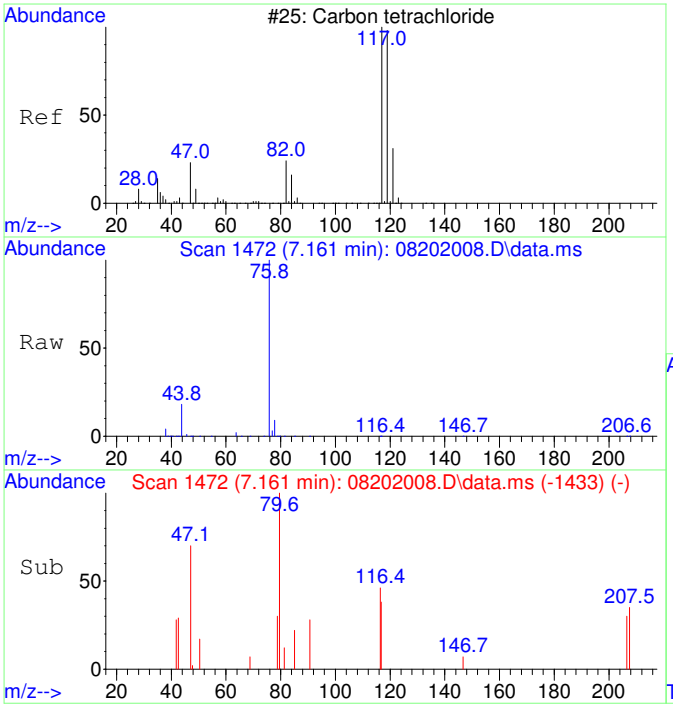


#31
1,1,1-Trichloroethane SCAN
Concen: 84.55 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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#

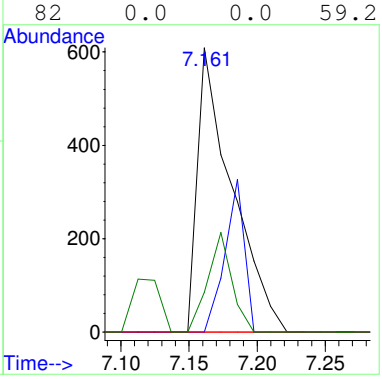


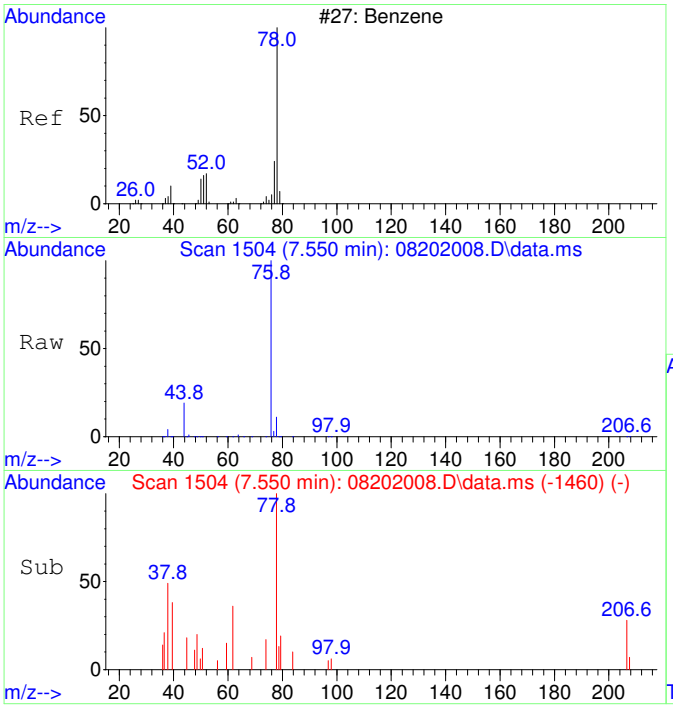


#32
Carbon tetrachloride SCAN
Concen: 54.36 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.024 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

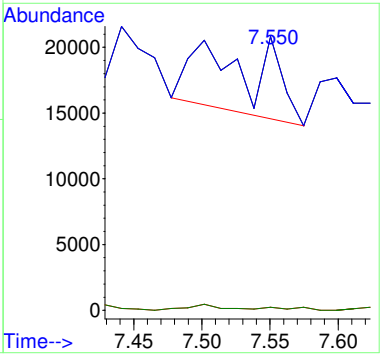


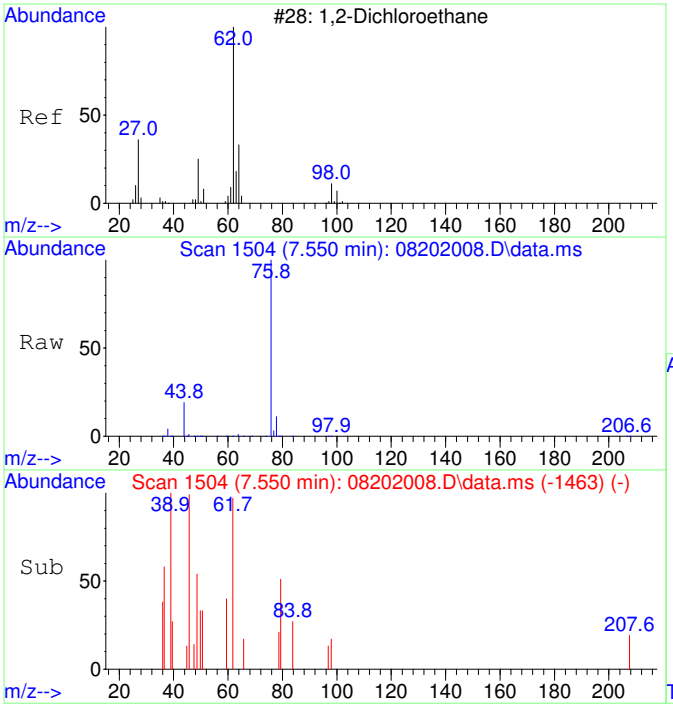


#33
Benzene SCAN
Concen: 320.23 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.037 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

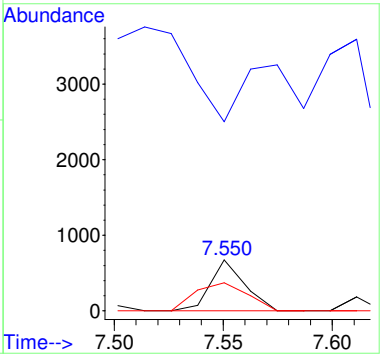


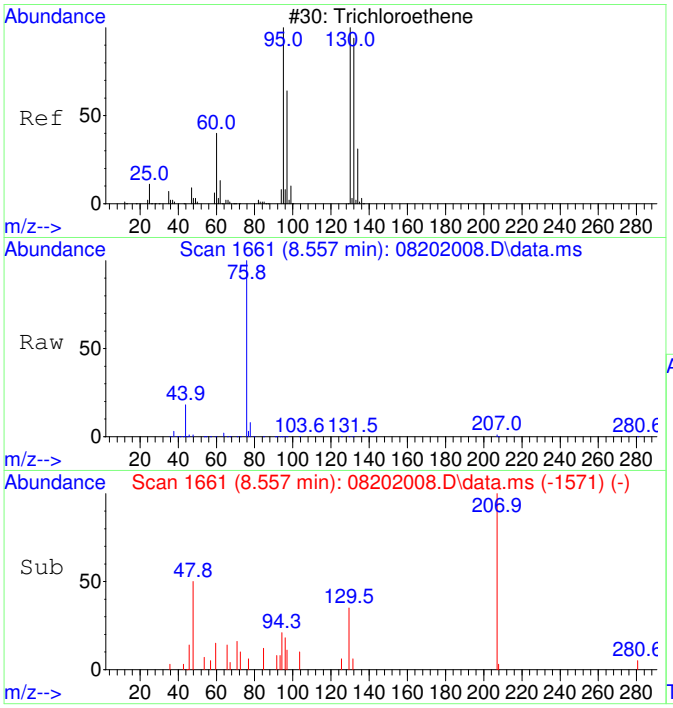


#34
1,2-Dichloroethane SCAN
Concen: 37.96 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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#

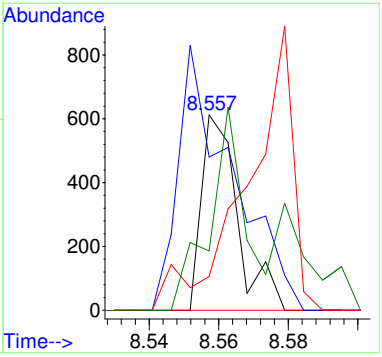


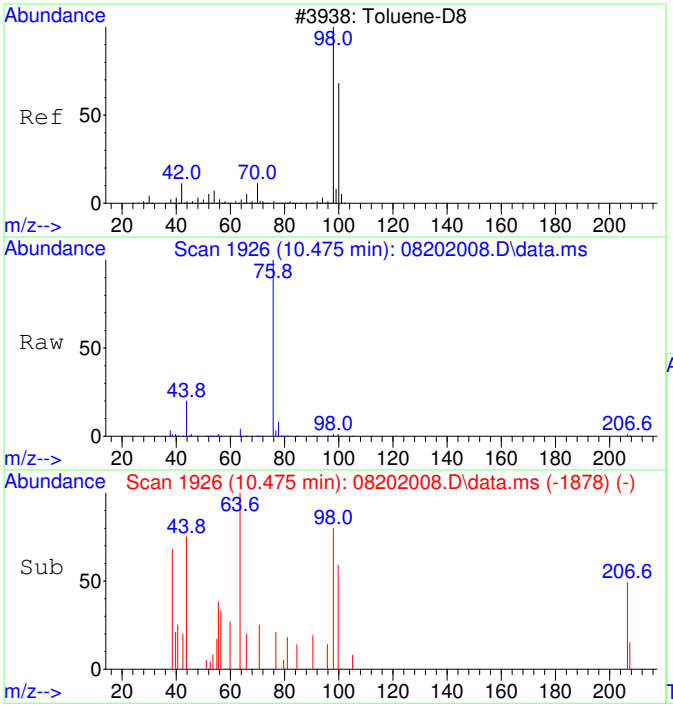


#35
Trichloroethene SCAN
Concen: 30.48 ug/L
RT: 8.557 min Scan# 1661
Delta R.T. -0.011 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

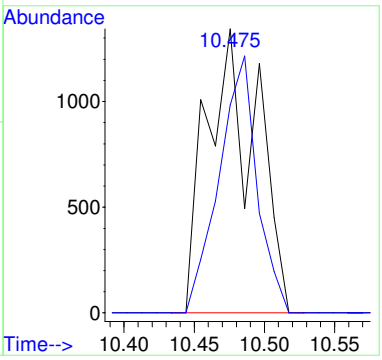


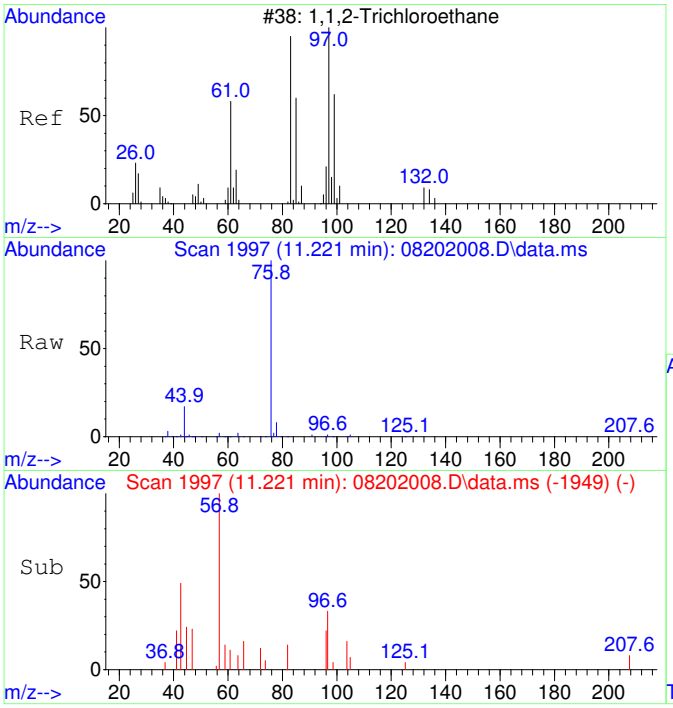


#36
Toluene-d8 SCAN
Concen: 57.48 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

Tgt Ion: 98 Resp: 3315

Ion	Ratio	Lower	Upper
98	100		
100	69.2	40.0	100.0

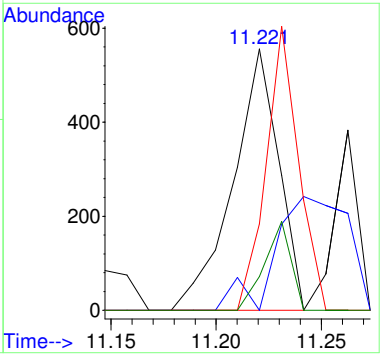


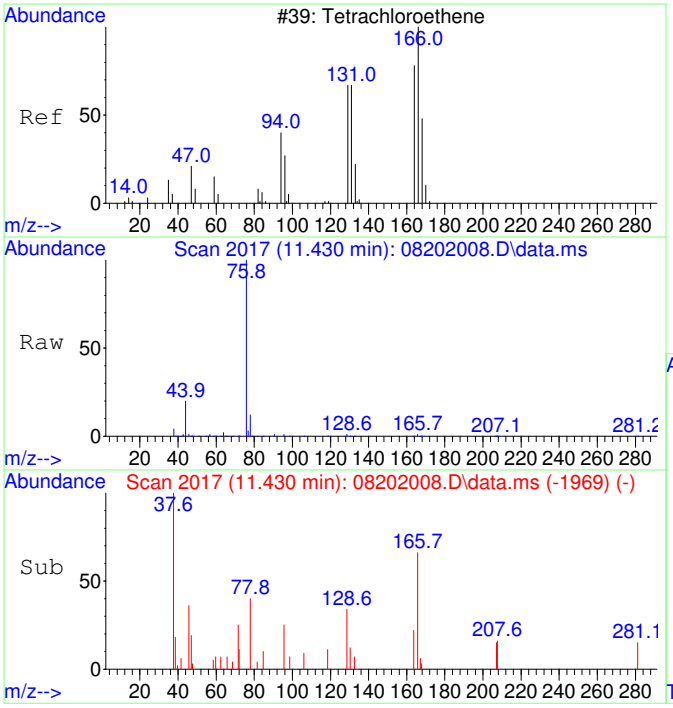


#38
1,1,2-Trichloroethane SCAN
Concen: 50.61 ug/L
RT: 11.221 min Scan# 1997
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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#

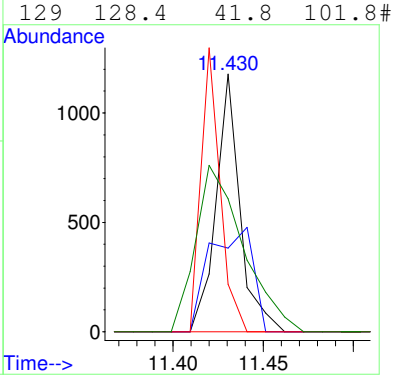


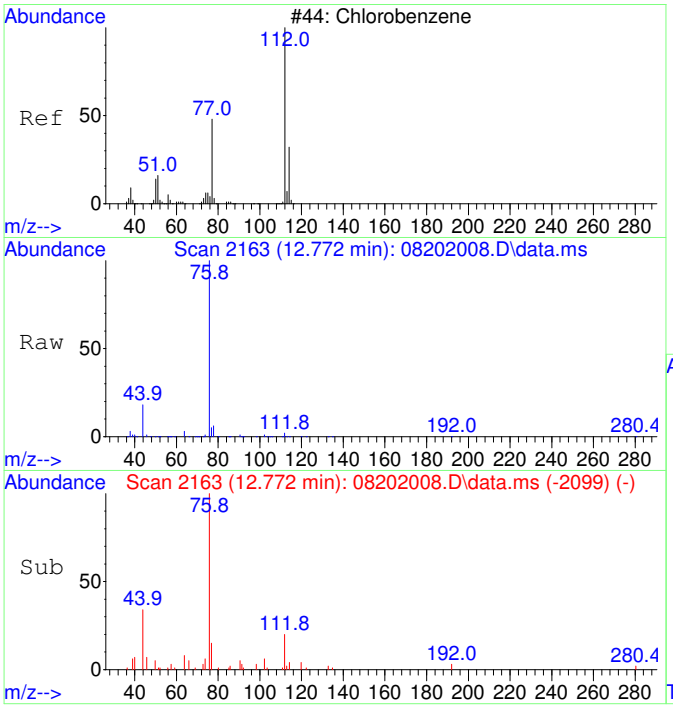


#39
Tetrachloroethene SCAN
Concen: 61.37 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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#

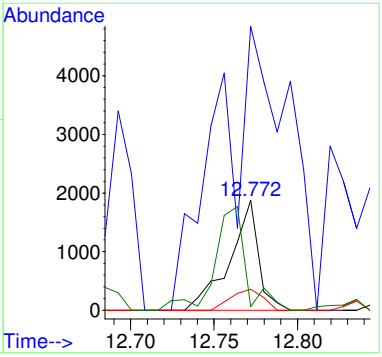


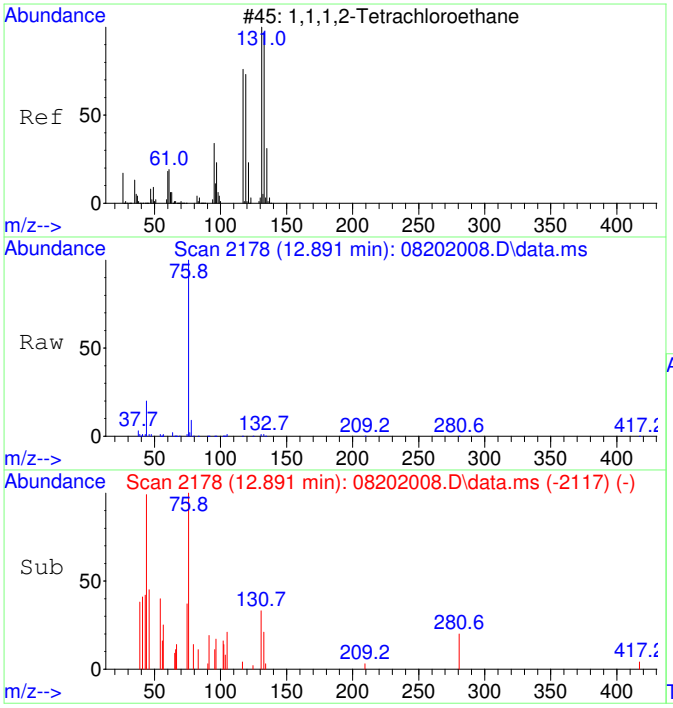


#40
Chlorobenzene SCAN
Concen: 44.78 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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#

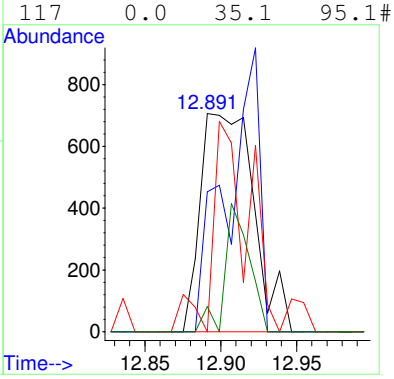


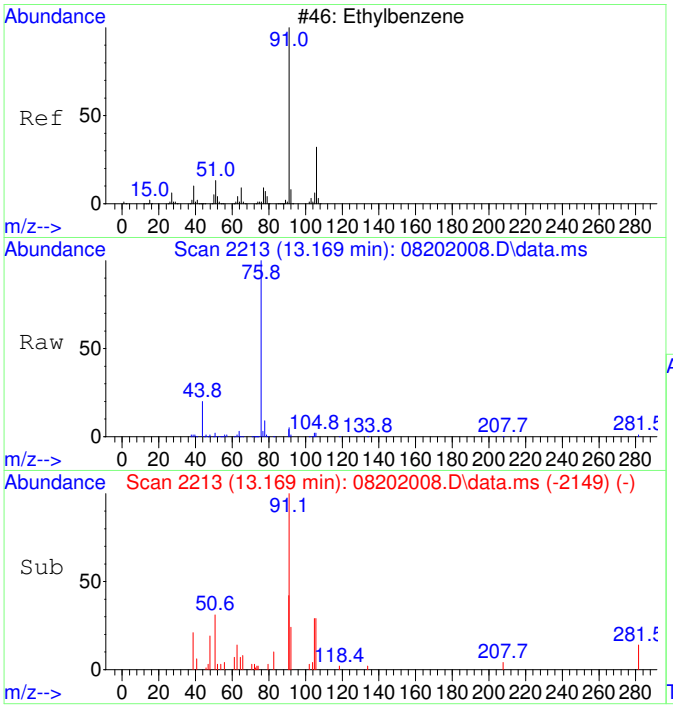


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 93.05 ug/L
RT: 12.891 min Scan# 2178
Delta R.T. -0.016 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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#

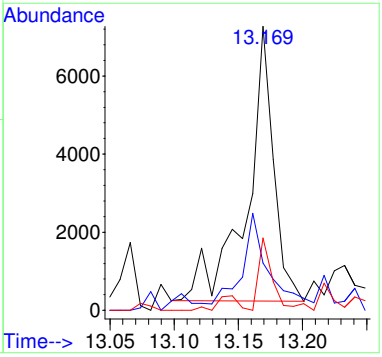


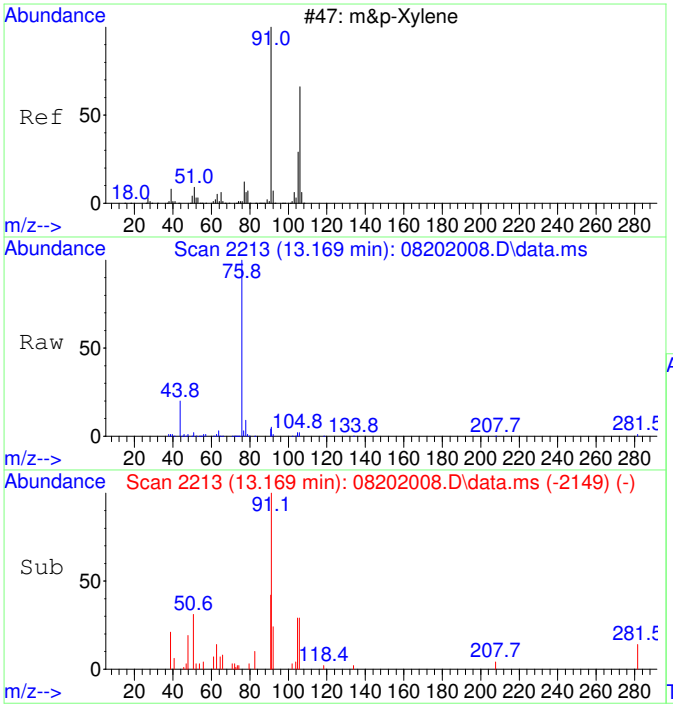


#42
Ethylbenzene SCAN
Concen: 75.40 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

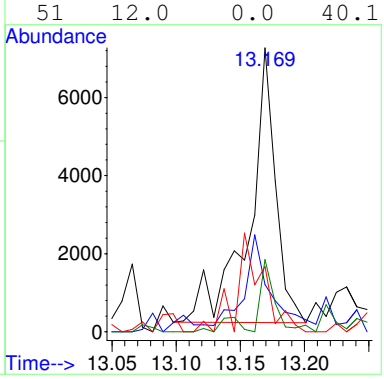


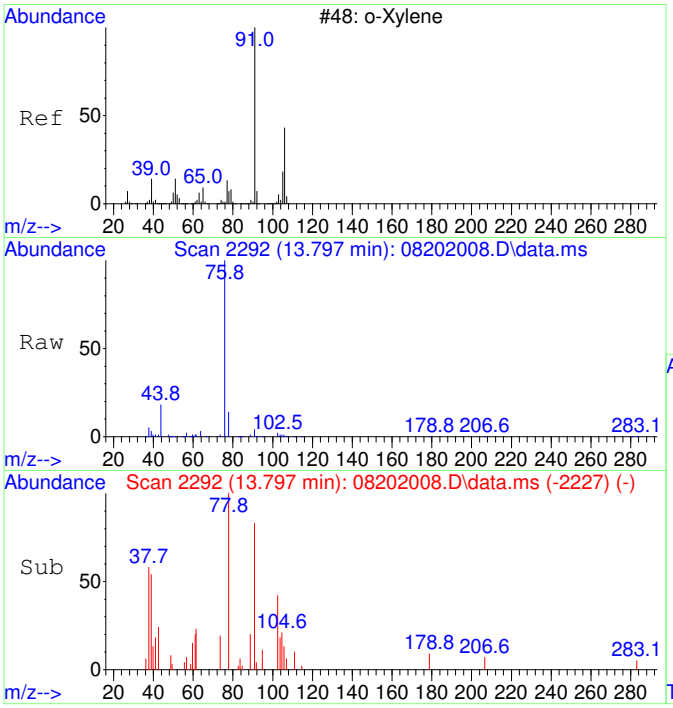


#43
m&p-Xylene SCAN
Concen: 75.40 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

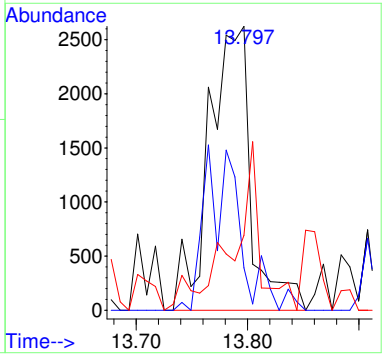


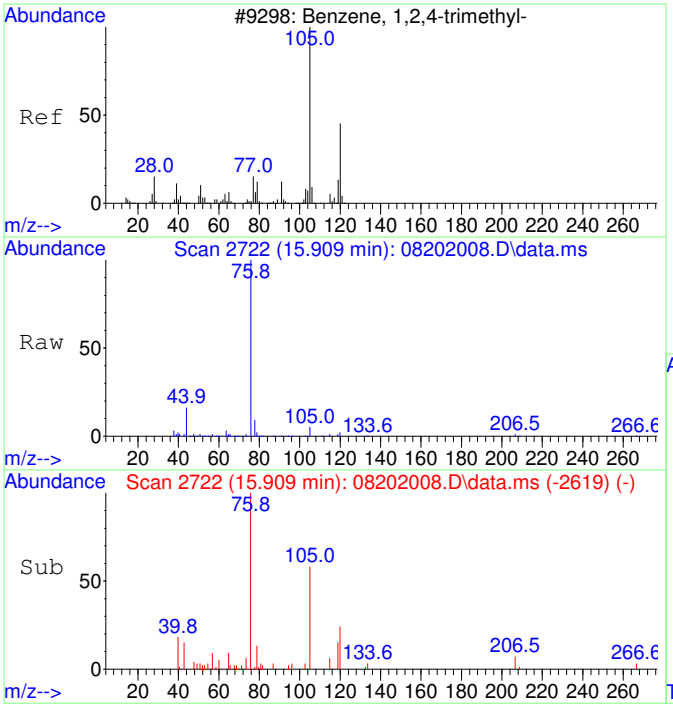


#44
o-Xylene SCAN
Concen: 95.26 ug/L
RT: 13.797 min Scan# 2292
Delta R.T. 0.016 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

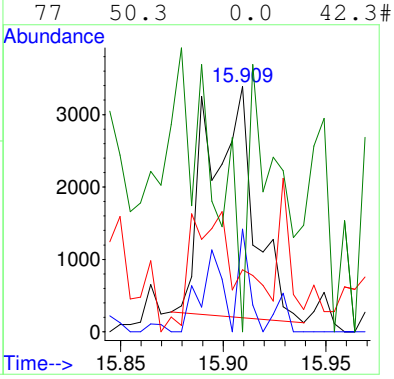


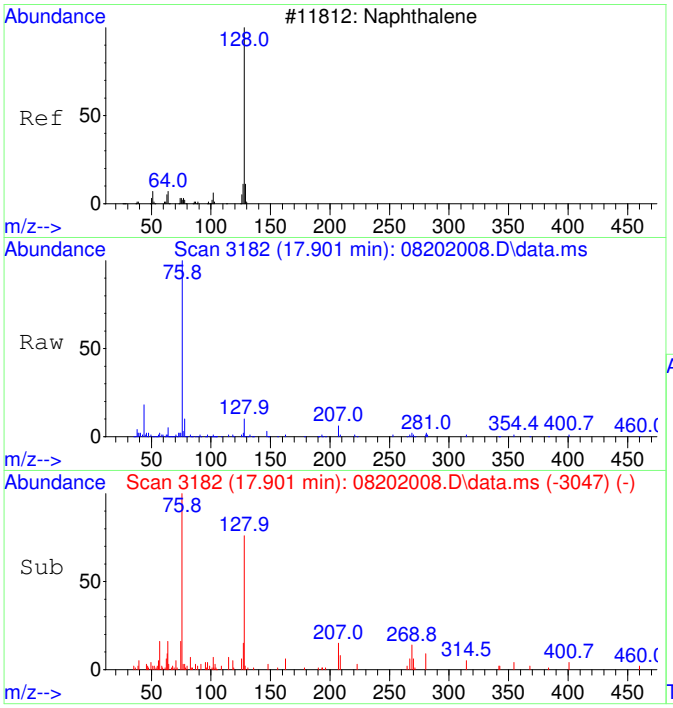


#47
1,2,4-Trimethylbenzene SCAN
Concen: 63.32 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.010 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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#

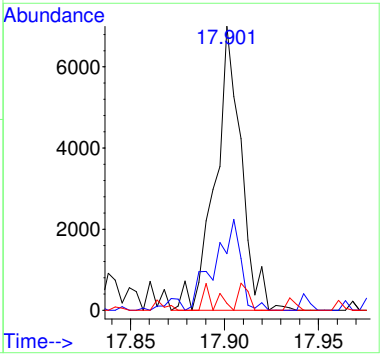




#48
Naphthalene SCAN
Concen: 57.30 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. 0.000 min
Lab File: 08202008.D
Acq: 20 Aug 2020 17:25

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

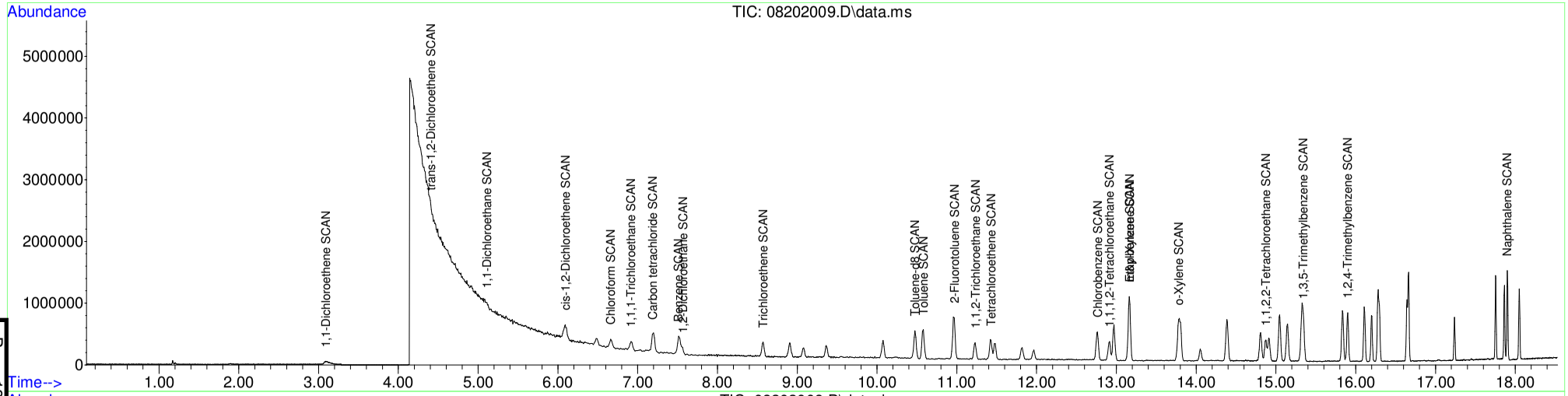
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.959	109	757040	5000.00 ug/L	-0.01
System Monitoring Compounds					
12) Toluene-d8	10.477	98	641391	4327.91 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.56%		
Target Compounds					Qvalue
2] 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



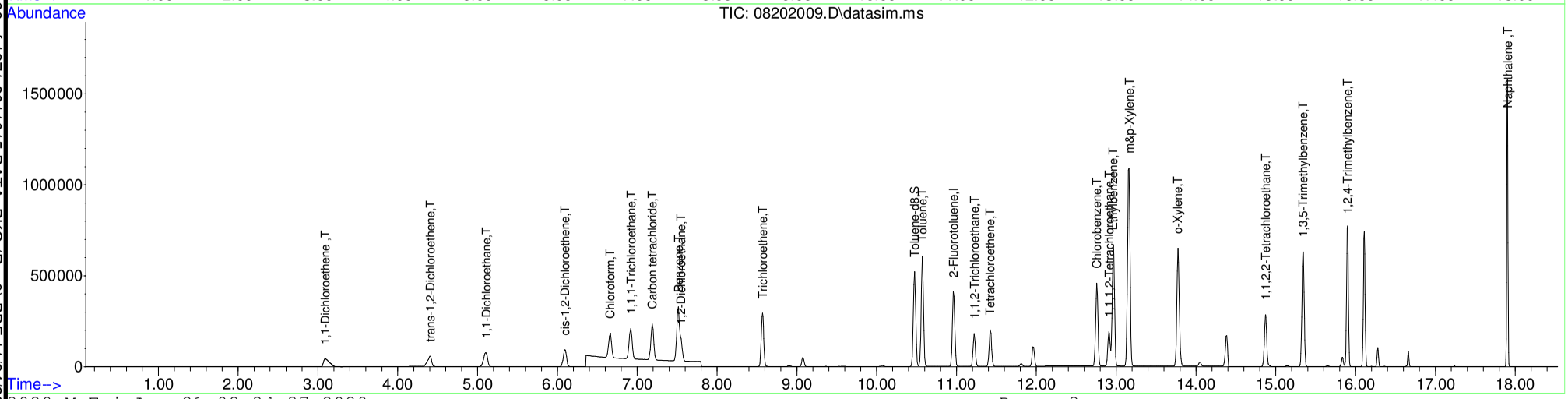


Table of Contents

SEQUENCE

S20K052

Sequence Date: 11/12/2020

Instrument: AG5975CV

Sequence Analyses:

VOCs, Passive Samplers

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B20K043	SEQUENCE #:	S20K052 11/12/20
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.	Fri Aug 21 08:33:54 2020			
	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 #:	B20K043	SEQUENCE #:	S20K052 11/12/20
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?	✔			
	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 11/16/20
	REVIEWED BY:	Rajabi, Ziyad Digitally signed by Rajabi, Ziyad Date: 2020.11.23 14:38:08 -08'00' SIGN HERE

COMMENTS

Custom analyte list.

Injection Log

Operator: TD
Directory: C:\msdchem\1\Ravioli Data\2020\111220\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	11122001.D	1	S20K052-IBL1		12 Nov 2020 8:44
2	11122002.D	1	S20K052-TUN1	BFB 2040028	12 Nov 2020 9:06
3	11122003.D	1	S20K052-CCV1	2030070 5 mg/L	12 Nov 2020 9:15
4	11122004.D	1	S20K052-CRL1	2030073 0.05 mg/L	12 Nov 2020 9:39
5	11122005.D	1	B20K043-BLK1		12 Nov 2020 10:03
6	11122006.D	1	B20K043-BS1		12 Nov 2020 10:27
7	11122007.D	1	B20K043-BSD1		12 Nov 2020 10:50
8	11122008.D	1	B20K043-MRL1		12 Nov 2020 11:14
9	11122009.D	1	2011015-01		12 Nov 2020 11:37
10	11122010.D	1	2011015-02		12 Nov 2020 12:01
11	11122011.D	1	2011015-03		12 Nov 2020 12:25
12	11122012.D	1	2011015-04		12 Nov 2020 12:48
13	11122013.D	1	2011015-05		12 Nov 2020 13:12
14	11122014.D	1	2011015-06		12 Nov 2020 13:36
15	11122015.D	1	2011015-07		12 Nov 2020 13:59
16	11122016.D	1	2011015-08		12 Nov 2020 14:23
17	11122017.D	1	2011015-09		12 Nov 2020 14:47
18	11122018.D	1	2011015-10		12 Nov 2020 15:10
19	11122019.D	1	2011015-11		12 Nov 2020 15:34
20	11122020.D	1	2011015-12		12 Nov 2020 15:57
21	11122021.D	1	2011015-13		12 Nov 2020 16:21
22	11122022.D	1	2011015-15		12 Nov 2020 16:45
23	11122023.D	1	2011016-01		12 Nov 2020 17:08
24	11122024.D	1	2011016-02		12 Nov 2020 17:32
25	11122025.D	1	2011016-03		12 Nov 2020 17:56
26	11122026.D	1	2011016-04		12 Nov 2020 18:19
27	11122027.D	1	2011016-05		12 Nov 2020 18:43

GC/MS QA-QC Check Report

Table of Contents

Tune File : C:\msdchem\1\Ravioli Data\2020\111220\11122002.D
Tune Time : 12 Nov 2020 9:06

Daily Calibration File : C:\msdchem\1\Ravioli Data\2020\111220\11122003.D

File	Sample	Surrogate Recovery %	Internal Standard Responses
			381181
11122003.D	S20K052-CC	96	381181
11122004.D	S20K052-CR	1*	406587
11122005.D	B20K043-BL	88	499956
11122006.D	B20K043-BS	90	526948
11122007.D	B20K043-BS	90	444234
11122008.D	B20K043-MR	89	423133
11122009.D	2011015-01	88	396595
11122010.D	2011015-02	88	460310
11122011.D	2011015-03	87	531401
11122012.D	2011015-04	88	455361
11122013.D	2011015-05	88	500514
11122014.D	2011015-06	87	484965
11122015.D	2011015-07	88	481667
11122016.D	2011015-08	88	454338
11122017.D	2011015-09	89	443374
11122018.D	2011015-10	90	438832
11122019.D	2011015-11	88	416194
11122020.D	2011015-12	87	410559
11122021.D	2011015-13	88	447484
11122022.D	2011015-15	88	448487
11122023.D	2011016-01	86	530071

```
11122024.D
         2011016-02   88                      567728
--------------------------------------------------------------------------
11122025.D
         2011016-03   86                      549406
--------------------------------------------------------------------------
11122026.D
         2011016-04  86                       534576
--------------------------------------------------------------------------
11122027.D
         2011016-05   86                      501877
--------------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

    Created: Fri Nov 13 06:17:00 2020  AG5975C
```

Analysis Sequence

S20K052

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2008017 Printed: 11/16/2020 12:47 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S20K052-IBL1	Instrument Blank	1	11/12/20 8:44		2030067	TD	11122001.D	
S20K052-TUN1	BFB	2	11/12/20 9:06	2040028		TD	11122002.D	
S20K052-CCV1	Calibration Check	3	11/12/20 9:15	2030070		TD	11122003.D	
S20K052-CRL1	Instrument RL Check	4	11/12/20 9:39	2030073		TD	11122004.D	
B20K043-BLK1	Blank	5	11/12/20 10:03			TD	11122005.D	
B20K043-BS1	LCS	6	11/12/20 10:27			TD	11122006.D	
B20K043-BSD1	LCS Dup	7	11/12/20 10:50			TD	11122007.D	
B20K043-MRL1	MRL Check	8	11/12/20 11:14			TD	11122008.D	
2011015-01 A	6Sixty-MH1-3ft-4d-R	9	11/12/20 11:37			TD	11122009.D	
2011015-02 A	6Sixty-MH1-3ft-4d-R-Dup	10	11/12/20 12:01			TD	11122010.D	
2011015-03 A	6Sixty-MH2-2ft-4d-R	11	11/12/20 12:25			TD	11122011.D	
2011015-04 A	6Sixty-MH3-2ft-4d-R	12	11/12/20 12:48			TD	11122012.D	
2011015-05 A	6Sixty-MH4-2ft-4d-R	13	11/12/20 13:12			TD	11122013.D	
2011015-06 A	6Sixty-MH5-2ft-4d	14	11/12/20 13:36			TD	11122014.D	6Sixty-MH5-2ft-4d-R
2011015-07 A	6Sixty-MH6-2ft-4d	15	11/12/20 13:59			TD	11122015.D	6Sixty-MH6-2ft-4d-R
2011015-08 A	6Sixty-MH7-2ft-4d	16	11/12/20 14:23			TD	11122016.D	6Sixty-MH7-2ft-4d-R
2011015-09 A	6Sixty-MH8-2ft-4d	17	11/12/20 14:47			TD	11122017.D	6Sixty-MH8-2ft-4d-R
2011015-10 A	6Sixty-MH9-2ft-4d	18	11/12/20 15:10			TD	11122018.D	6Sixty-MH9-3ft-4d-R
2011015-11 A	6Sixty-MH10-2ft-4d	19	11/12/20 15:34			TD	11122019.D	6Sixty-MH10-3ft-4d-R
2011015-12 A	6Sixty-MH11-2ft-4d	20	11/12/20 15:57			TD	11122020.D	6Sixty-MH11-3ft-4d-R
2011015-13 A	F6-010-3ft-4d-R	21	11/12/20 16:21			TD	11122021.D	
2011015-15 A	F6-006-3ft-4d-R	22	11/12/20 16:45			TD	11122022.D	

Page 187 of 1271 2011015 DATA_PKG (Rev0).PDF 11/24/20 14:10:41

Table of Contents

Analysis Sequence

S20K052

(Continued)

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2008017 Printed: 11/16/2020 12:47 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
2011016-01 A	6Sixty-A1-SC-1ft-7d	23	11/12/20 17:08			TD	11122023.D	
2011016-02 A	6Sixty-A2-SC-1ft-7d-R	24	11/12/20 17:32			TD	11122024.D	
2011016-03 A	6Sixty-A3-SC-1ft-7d	25	11/12/20 17:56			TD	11122025.D	
2011016-04 A	6Sixty-A3-SC-1ft-7d-Dup	26	11/12/20 18:19			TD	11122026.D	
2011016-05 A	6Sixty-A4-SC-1ft-7d	27	11/12/20 18:43			TD	11122027.D	

Sequence Comments

Reagents

Reagent #	Description

SEQUENCE DATA

S20K052

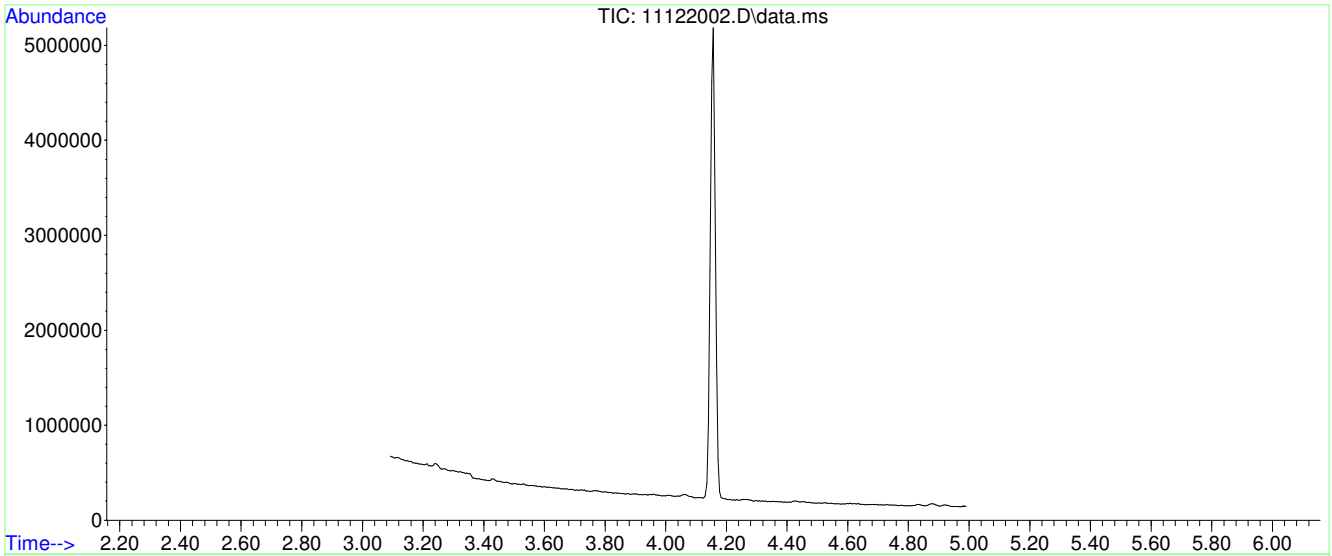
S20K052-TUN1

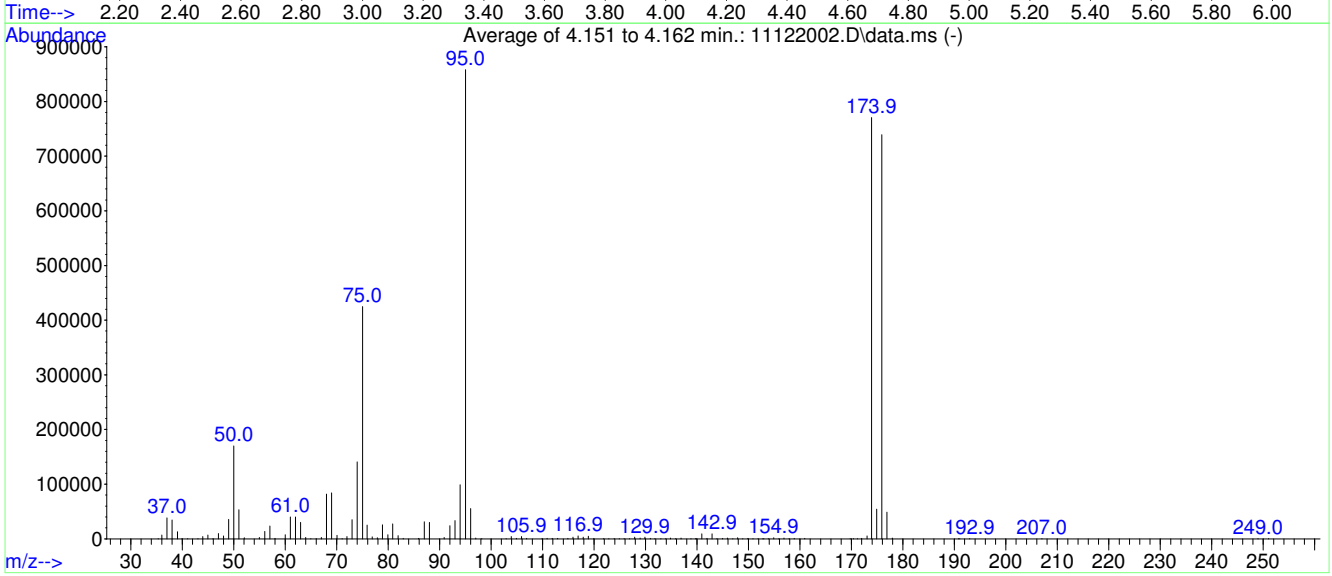
Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122002.D
Acq On : 12 Nov 2020 9:06
Operator : TD
Sample : S20K052-TUN1
Misc : BFB 2040028
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: Ravioli.P

Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Fri Aug 21 08:33:54 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	19.8	170040	PASS
75	95	30	60	49.5	424942	PASS
95	95	100	100	100.0	858005	PASS
96	95	5	9	6.4	55251	PASS
173	174	0.00	2	0.7	5342	PASS
174	95	50	120	89.8	770603	PASS
175	174	5	9	7.1	54544	PASS
176	174	95	101	95.9	739093	PASS
177	176	5	9	6.6	48832	PASS

Average of 4.151 to 4.162 min.: 11122002.D\data.ms
S20K052-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.30	51	47.00	9438	61.00	39960	72.00	4044
36.00	6789	48.00	5067	62.00	39819	73.00	35147
37.05	38240	49.00	35680	63.00	30061	74.00	140605
38.00	34203	50.00	170040	63.95	2481	75.00	424942
39.05	13054	51.00	53072	65.00	435	75.90	25344
39.95	76	52.05	2143	66.00	115	76.90	3503
41.05	159	55.00	2348	67.00	2249	77.90	1802
43.05	389	56.00	13292	68.00	81816	78.90	25854
44.00	4189	57.00	23477	69.00	84200	79.95	7635
45.00	7033	58.00	1027	70.05	6484	80.90	27187
45.95	186	60.00	7607	71.05	344	81.90	5982

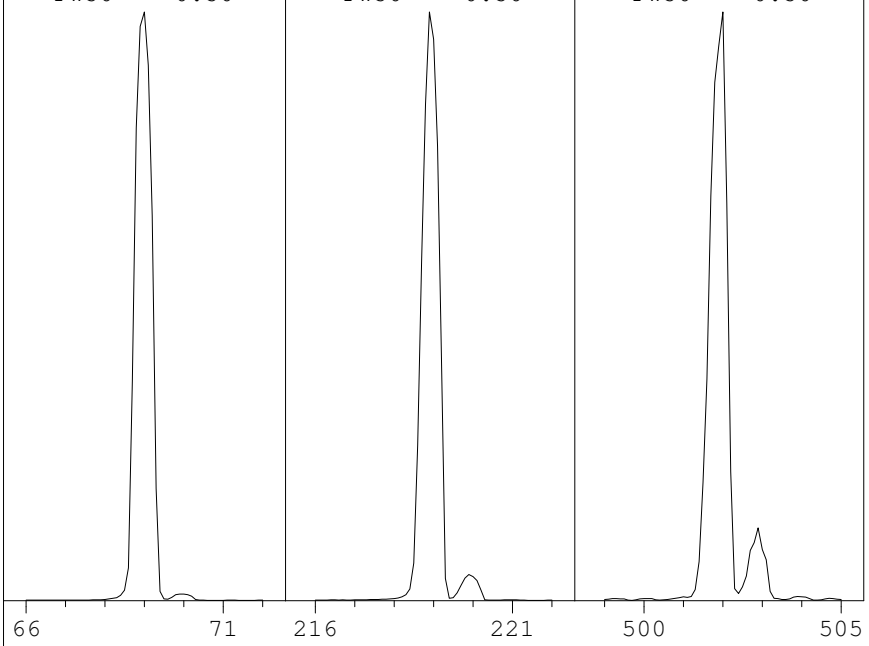
Average of 4.151 to 4.162 min.: 11122002.D\data.ms
S20K052-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.95	624	98.20	60	115.90	3006	127.90	2798
85.90	715	102.90	315	116.90	5317	128.95	1246
87.00	30997	103.90	3880	117.90	3222	129.90	3282
88.00	30299	104.90	1039	118.90	4512	130.90	1064
90.90	2780	105.90	4168	119.95	178	131.80	154
92.00	23733	106.90	829	121.80	194	132.95	263
93.00	33355	109.85	487	122.85	215	133.90	321
94.00	98744	110.90	903	123.90	507	134.85	1449
95.00	858005	111.85	648	124.90	364	135.85	181
96.00	55251	112.90	724	125.85	374	136.90	1583
97.00	1472	114.90	858	126.90	277	138.85	298

Average of 4.151 to 4.162 min.: 11122002.D\data.ms
S20K052-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
139.70	186	149.85	820	160.90	1068	190.80	63
139.85	406	150.85	106	169.75	120	191.05	155
140.90	8834	151.85	321	170.40	56	192.95	237
141.90	1092	152.80	183	171.15	202	207.00	132
142.90	9085	152.95	451	171.95	972	249.00	70
143.85	441	153.85	446	173.00	5342	251.00	52
144.95	742	154.90	2218	173.90	770603		
145.90	1323	155.90	351	174.90	54544		
146.95	173	156.90	1456	175.90	739093		
147.90	2058	157.90	142	176.90	48832		
148.90	570	158.85	1047	177.95	1519		

Mass	69.00	Mass	218.90	Mass	502.00
Ab	453706	Ab	282423	Ab	8081
Pw50	0.50	Pw50	0.50	Pw50	0.50

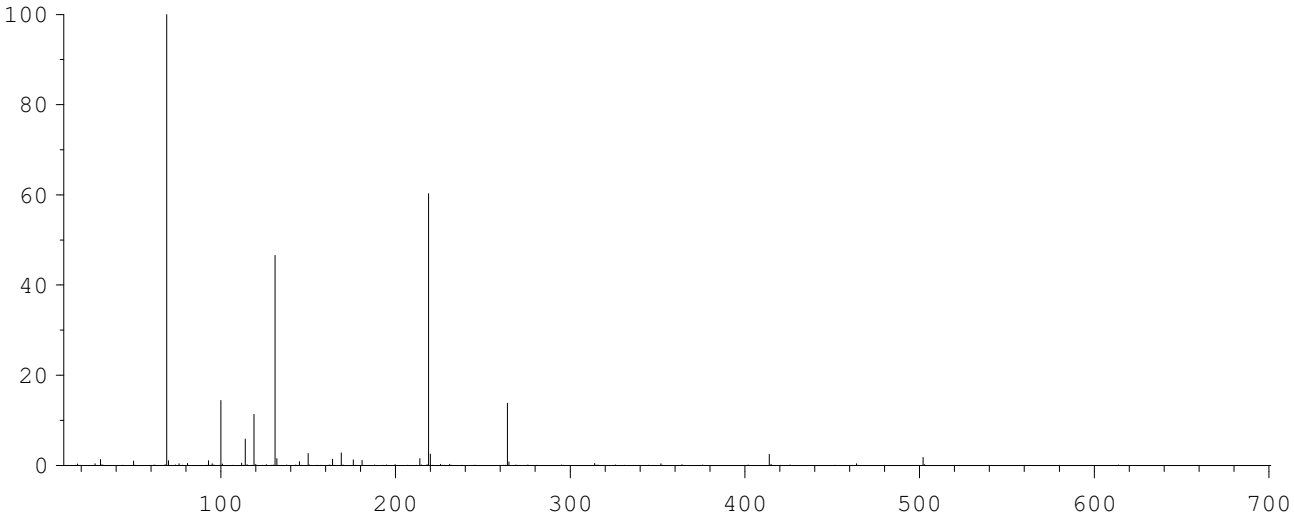


Ion Pol	Pos	MassGain	-1192
		MassOffs	-39
Emission	34.6	AmuGain	978
EIEnrgy	69.9	AmuOffs	127.94
Filament	1	Wid219	-0.003
		DC Pol	Pos
Repeller	29.79		
IonFcus	69.3	HEDEnab	On
EntLens	0.0	EMVolts	1329
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

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
109 peaks Base: 69.00 Abundance: 431680



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	431680	100.00	70.00	4536	1.05
219.00	260224	60.28	220.00	10793	4.15
502.00	7772	1.80	503.00	846	10.89

Air/Water Check: H20~0.30% N2~0.37% O2~0.19% CO2~0.04% N2/H2O~120.57%

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 43402
Repeller Maximum 30 volts using ion 219; Gain Factor 0.43

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	46.6	60.3	2.4	1.8	

S20K052-CCV1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122003.D
Acq On : 12 Nov 2020 9:15
InstName : AG5975C
Operator : TD
Sample : S20K052-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 12 09:34:35 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 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	57	0.00
2	T	1,1-Dichloroethene	0.200	0.248	-24.0	75	0.00
3	T	trans-1,2-Dichloroethene	0.231	0.268	-16.0	70	-0.03
4	T	1,1-Dichloroethane	0.287	0.325	-13.2	69	-0.01
5	T	cis-1,2-Dichloroethene	0.303	0.335	-10.6	67	0.00
6	T	Chloroform	0.310	0.322	-3.9	63	-0.01
7	T	1,1,1-Trichloroethane	0.337	0.335	0.6	60	-0.01
8	T	Carbon tetrachloride	0.317	0.306	3.5	57	0.00
9	T	Benzene	0.850	0.820	3.5	60	-0.01
10	T	1,2-Dichloroethane	0.303	0.308	-1.7	62	0.00
11	T	Trichloroethene	0.256	0.246	3.9	58	0.00
12	S	Toluene-d8	0.979	0.943	3.7	57	0.00
13	T	Toluene	1.248	1.130	9.5	57	0.01
14	T	1,1,2-Trichloroethane	0.272	0.259	4.8	57	0.01
15	T	Tetrachloroethene	0.361	0.334	7.5	55	0.01
16	T	Chlorobenzene	0.894	0.845	5.5	56	0.00
17	T	1,1,1,2-Tetrachloroethane	0.320	0.300	6.3	55	0.00
18	T	Ethylbenzene	1.519	1.394	8.2	55	0.00
19	T	m&p-Xylene	1.187	1.057	11.0	55	0.00
20	T	o-Xylene	1.268	1.147	9.5	54	0.00
21	T	1,1,2,2-Tetrachloroethane	0.562	0.524	6.8	55	0.00
22	T	1,3,5-Trimethylbenzene	1.350	1.227	9.1	53	0.00
23	T	1,2,4-Trimethylbenzene	1.402	1.235	11.9	53	0.00
24	T	Naphthalene	2.216	2.035	8.2	54	0.00
25		2-Fluorotoluene SCAN	0.487	0.513	-5.3	60	0.00
26		1,1-Dichloroethene SCAN	0.104	0.153	-47.1#	84	-0.02
27		trans-1,2-Dichloroethene SC	0.128	0.160	-25.0	71	-0.02
28		1,1-Dichloroethane SCAN	0.148	0.197	-33.1#	75	-0.03
29		cis-1,2-Dichloroethene SCAN	0.159	0.205	-28.9	73	0.00
30		Chloroform SCAN	0.172	0.185	-7.6	61	0.00
31		1,1,1-Trichloroethane SCAN	0.157	0.177	-12.7	64	0.00
32		Carbon tetrachloride SCAN	0.164	0.153	6.7	53	0.00
33		Benzene SCAN	0.432	0.488	-13.0	64	0.00
34		1,2-Dichloroethane SCAN	0.160	0.185	-15.6	66	0.00
35		Trichloroethene SCAN	0.119	0.123	-3.4	59	0.00
36		Toluene-d8 SCAN	0.477	0.494	-3.6	59	0.01
37		Toluene SCAN	0.610	0.646	-5.9	60	0.00
38		1,1,2-Trichloroethane SCAN	0.137	0.150	-9.5	62	0.01
39		Tetrachloroethene SCAN	0.147	0.163	-10.9	63	0.00
40		Chlorobenzene SCAN	0.417	0.430	-3.1	58	0.00
41		1,1,1,2-Tetrachloroethane S	0.154	0.144	6.5	53	0.00
42		Ethylbenzene SCAN	1.112	1.135	-2.1	58	0.00
43		m&p-Xylene SCAN	1.112	1.135	-2.1	58	0.00
44		o-Xylene SCAN	0.595	0.616	-3.5	59	0.00
45		1,1,2,2-Tetrachloroethane S	0.290	0.309	-6.6	60	0.00
46		1,3,5-Trimethylbenzene SCAN	0.627	0.623	0.6	56	0.00
47		1,2,4-Trimethylbenzene SCAN	0.642	0.619	3.6	55	0.00
48		Naphthalene SCAN	0.971	0.958	1.3	56	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\111220\
Data File : 11122003.D
Acq On : 12 Nov 2020 9:15
InstName : AG5975C
Operator : TD
Sample : S20K052-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 12 09:34:35 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

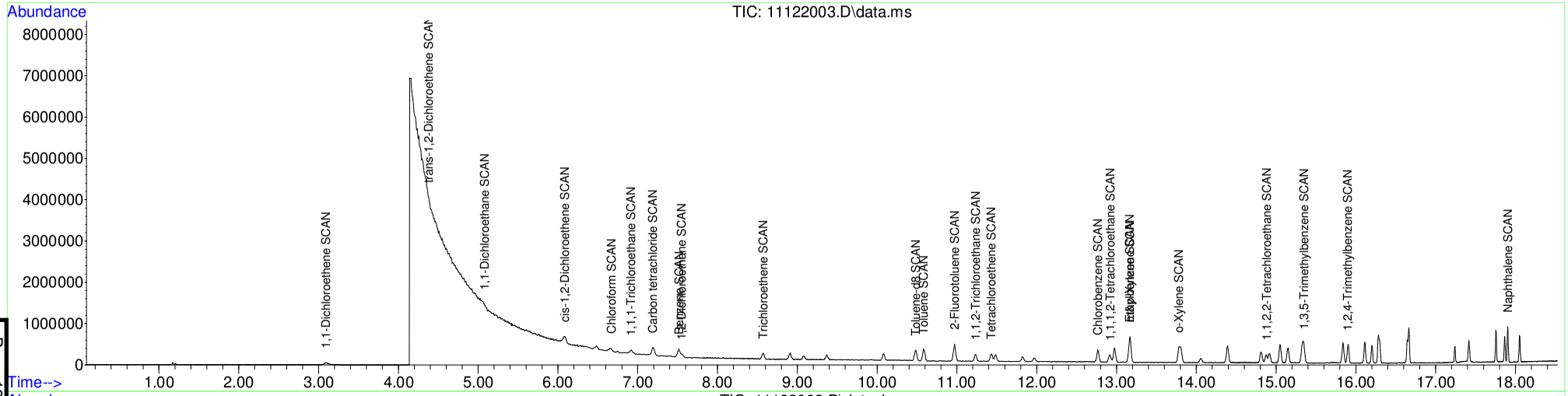
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	381181	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	359304	4815.10 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 96.30%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	94606	6215.42 ug/L	82
3] trans-1,2-Dichloroethene	4.369	61	102332	5818.92 ug/L	98
4] 1,1-Dichloroethane	5.086	63	123985	5663.67 ug/L	98
5] cis-1,2-Dichloroethene	6.088	61	127602	5522.04 ug/L	99
6] Chloroform	6.652	83	122828	5193.20 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	127553	4965.87 ug/L	100
8] Carbon tetrachloride	7.187	117	116483	4818.17 ug/L	100
9] Benzene	7.503	78	312745	4828.94 ug/L	98
10] 1,2-Dichloroethane	7.552	62	117563	5084.99 ug/L	99
11] Trichloroethene	8.569	130	93820	4811.32 ug/L	93
13] Toluene	10.582	91	430778	4528.12 ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	98881	4770.02 ug/L	96
15] Tetrachloroethene	11.432	166	127232	4621.31 ug/L	100
16] Chlorobenzene	12.765	112	322249	4730.65 ug/L	92
17] 1,1,1,2-Tetrachloroethane	12.916	131	114168	4677.37 ug/L	100
18] Ethylbenzene	12.972	91	531446	4589.42 ug/L	98
19] m&p-Xylene	13.162	91	805549	8900.75 ug/L	97
20] o-Xylene	13.782	91	437080	4520.37 ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.877	83	199702	4660.18 ug/L	100
22] 1,3,5-Trimethylbenzene	15.345	105	467630	4543.78 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	470722	4403.42 ug/L	96
24] Naphthalene	17.904	128	775602	4590.61 ug/L	100
25) 2-Fluorotoluene SCAN	10.969	109	195564	5263.02 ug/L	96
26) 1,1-Dichloroethene SCAN	3.088	61	58262	7383.08 ug/L	81
27) trans-1,2-Dichloroethe...	4.381	61	61173	6264.56 ug/L	80
28) 1,1-Dichloroethane SCAN	5.078	63	75254	6659.04 ug/L	92
29) cis-1,2-Dichloroethene...	6.086	61	78283	6465.42 ug/L #	74
30) Chloroform SCAN	6.662	83	70638	5378.76 ug/L	92
31) 1,1,1-Trichloroethane ...	6.918	97	67558	5645.05 ug/L	88
32) Carbon tetrachloride SCAN	7.185	117	58279	4668.45 ug/L	93
33) Benzene SCAN	7.514	78	186096	5647.59 ug/L	95
34) 1,2-Dichloroethane SCAN	7.550	62	70668	5807.97 ug/L	96
35) Trichloroethene SCAN	8.573	130	46882	5177.32 ug/L	82
36) Toluene-d8 SCAN	10.486	98	188445	5185.68 ug/L	98
37) Toluene SCAN	10.580	91	246280	5292.00 ug/L	97
38) 1,1,2-Trichloroethane ...	11.231	97	57276	5483.14 ug/L	94
39) Tetrachloroethene SCAN	11.430	166	62193	5562.56 ug/L	94
40) Chlorobenzene SCAN	12.764	112	163895	5153.84 ug/L	87
41) 1,1,1,2-Tetrachloroeth...	12.915	131	54719	4649.54 ug/L	96
42) Ethylbenzene SCAN	13.169	91	432552	5101.79 ug/L	90
43) m&p-Xylene SCAN	13.169	91	432552	5101.79 ug/L	91
44) o-Xylene SCAN	13.781	91	234975	5177.60 ug/L	97
45) 1,1,2,2-Tetrachloroeth...	14.875	83	117622	5315.20 ug/L	96
46) 1,3,5-Trimethylbenzene...	15.348	105	237466	4964.89 ug/L	98
47) 1,2,4-Trimethylbenzene...	15.899	105	236036	4822.99 ug/L	97
48) Naphthalene SCAN	17.902	128	365158	4930.99 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122003.D
Acq On : 12 Nov 2020 9:15
InstName : AG5975C
Operator : TD
Sample : S20K052-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 12 09:34:35 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



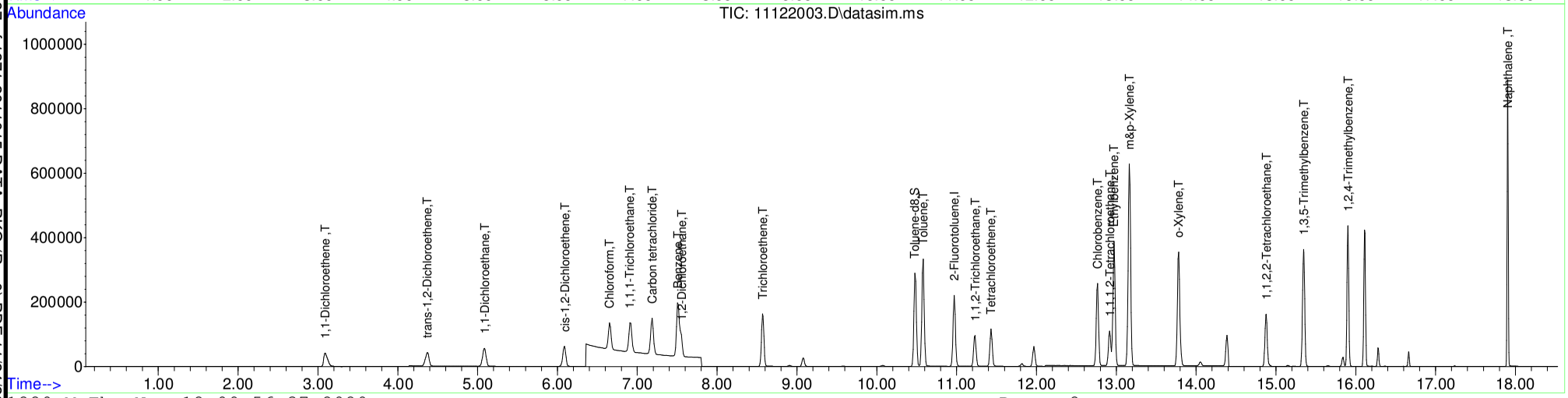
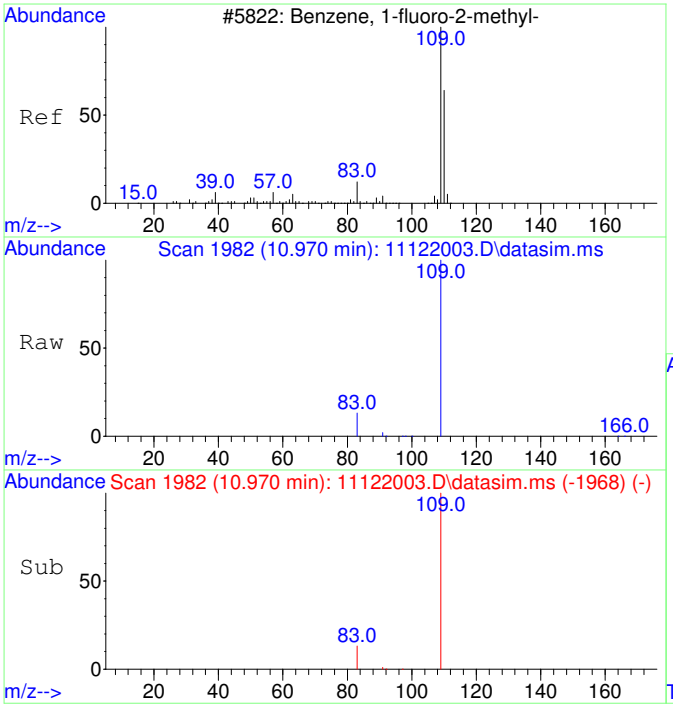


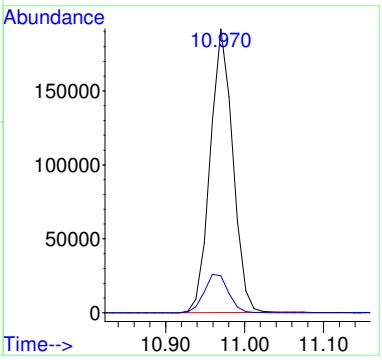
Table of Contents

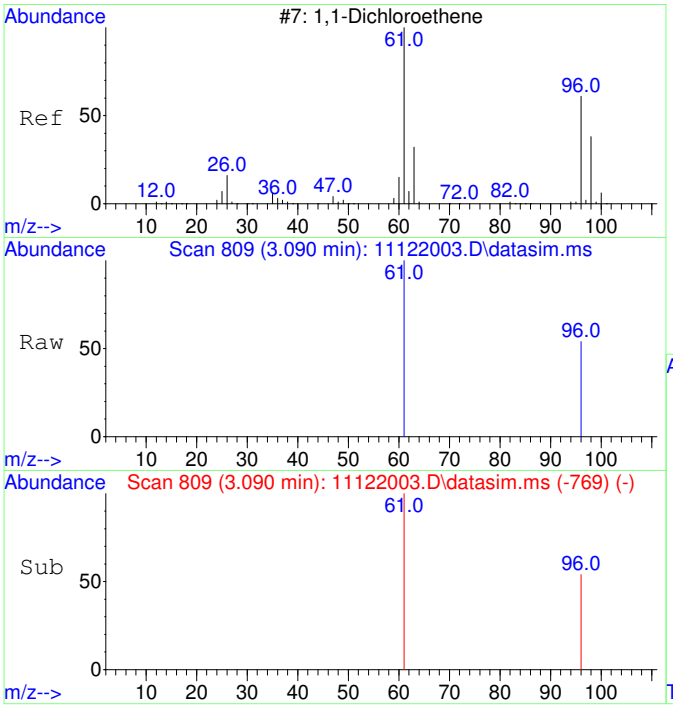


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:109 Resp: 381181

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	42.3

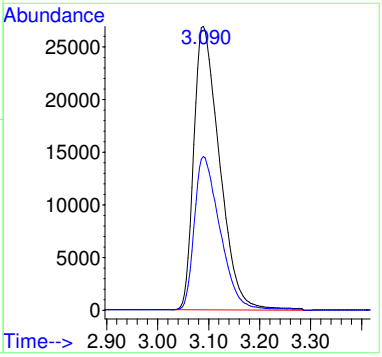


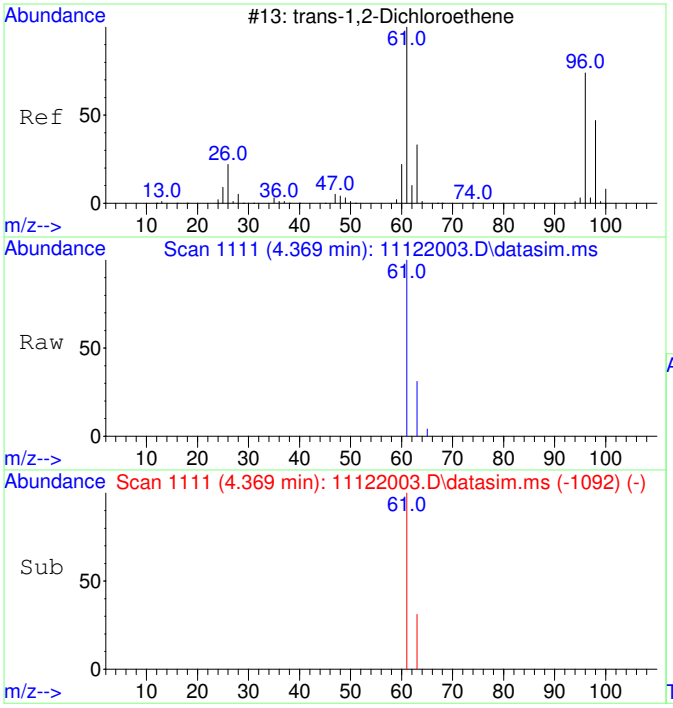


#2
1,1-Dichloroethene
Concen: 6215.42 ug/L
RT: 3.090 min Scan# 809
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 61 Resp: 94606

Ion	Ratio	Lower	Upper
61	100		
96	52.6	37.2	97.2

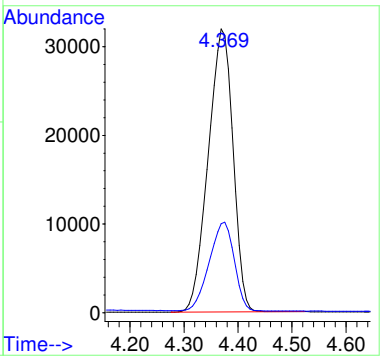


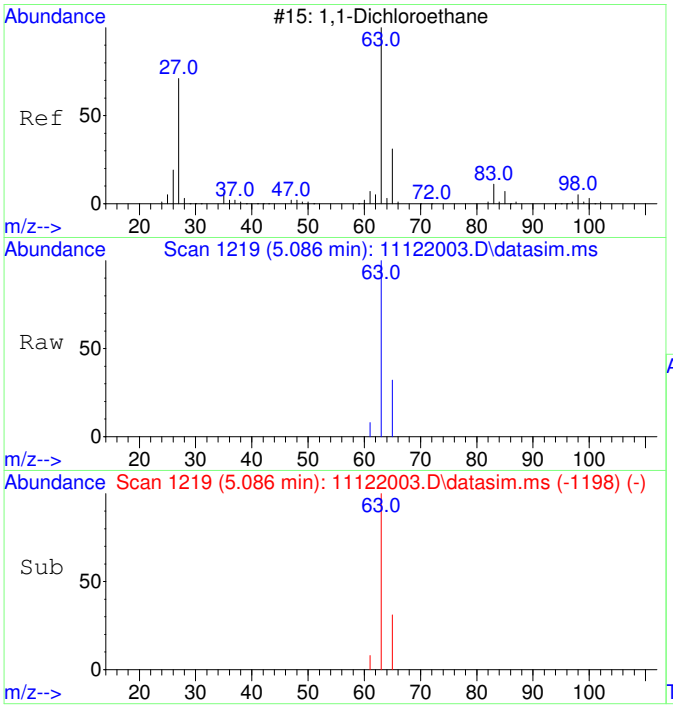


#3
trans-1,2-Dichloroethene
Concen: 5818.92 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. -0.027 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 61 Resp: 102332

Ion	Ratio	Lower	Upper
61	100		
63	31.3	2.4	62.4

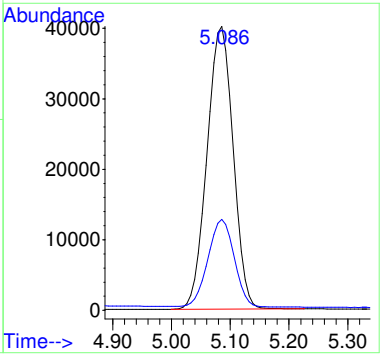


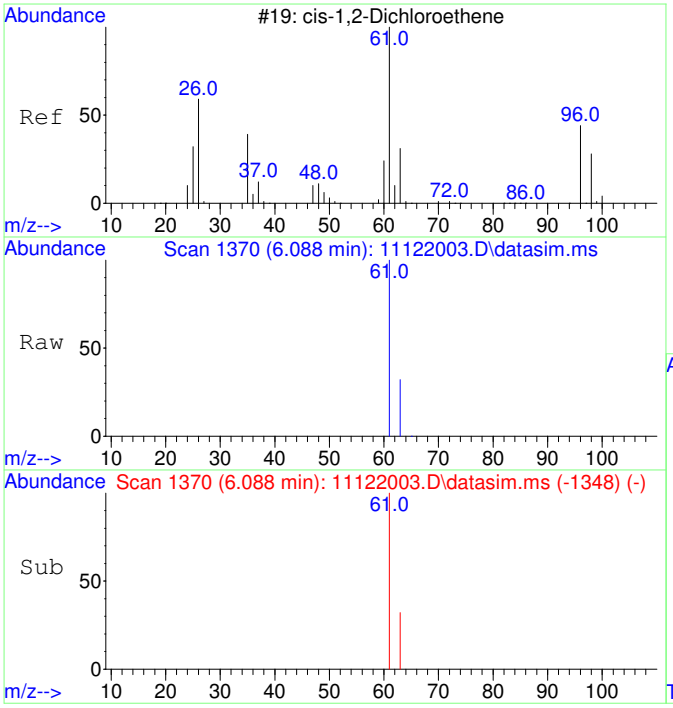


#4
1,1-Dichloroethane
Concen: 5663.67 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. -0.013 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 63 Resp: 123985

Ion	Ratio	Lower	Upper
63	100		
65	30.7	1.8	61.8

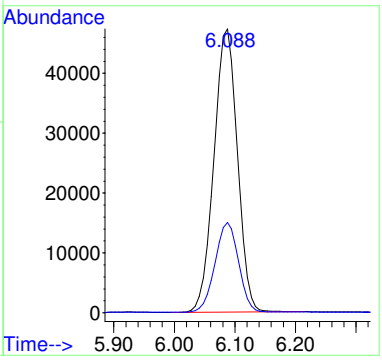


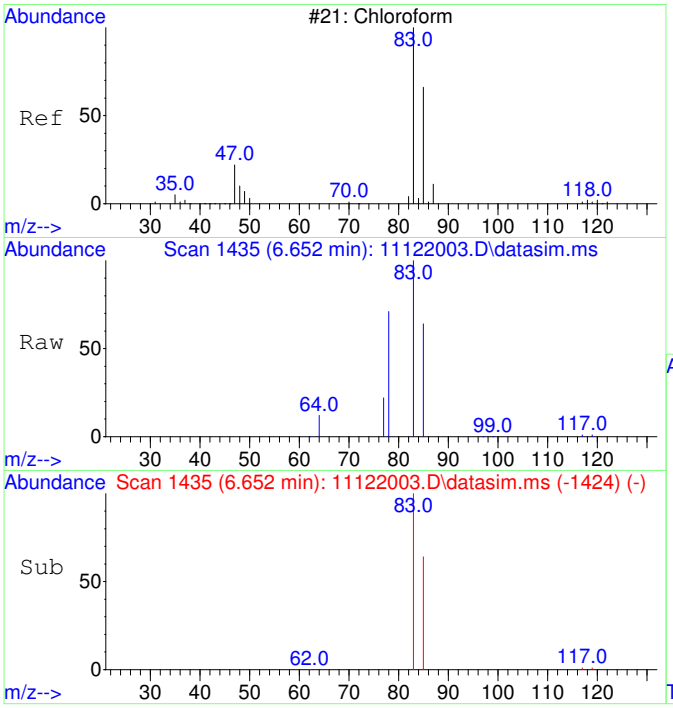


#5
cis-1,2-Dichloroethene
Concen: 5522.04 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 61 Resp: 127602

Ion	Ratio	Lower	Upper
61	100		
63	31.7	2.5	62.5

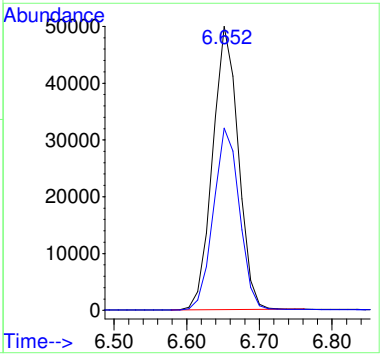


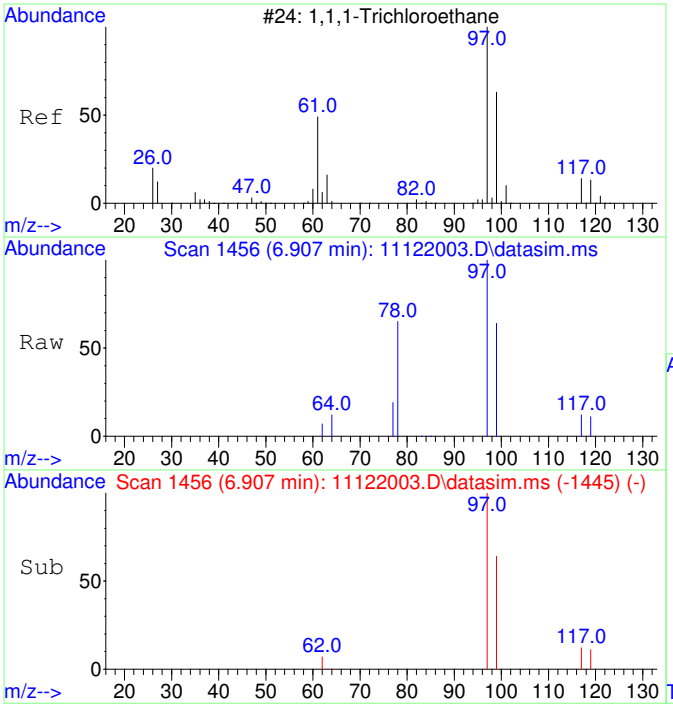


#6
Chloroform
Concen: 5193.20 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 83 Resp: 122828

Ion	Ratio	Lower	Upper
83	100		
85	64.8	35.1	95.1

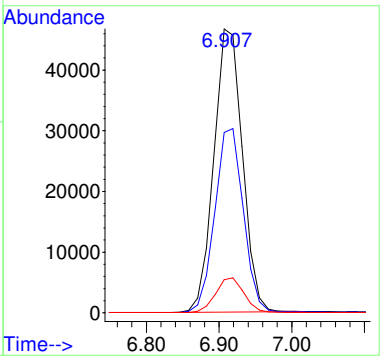


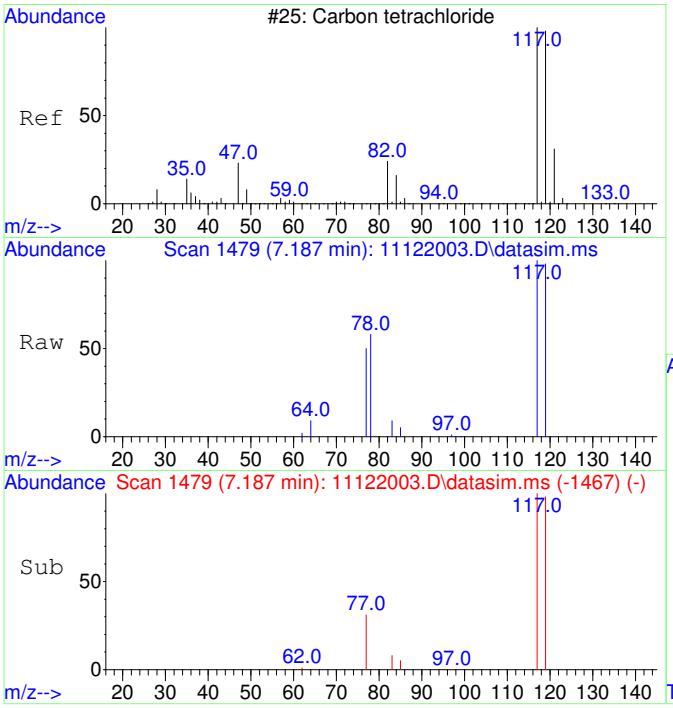


#7
1,1,1-Trichloroethane
Concen: 4965.87 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 97 Resp: 127553

Ion	Ratio	Lower	Upper
97	100		
99	64.6	34.6	94.6
117	12.1	0.0	43.2

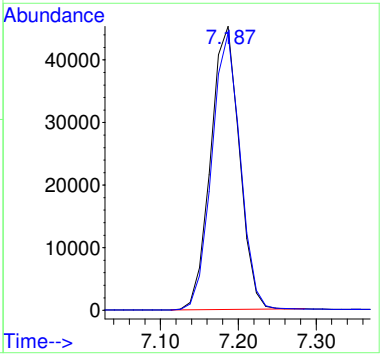


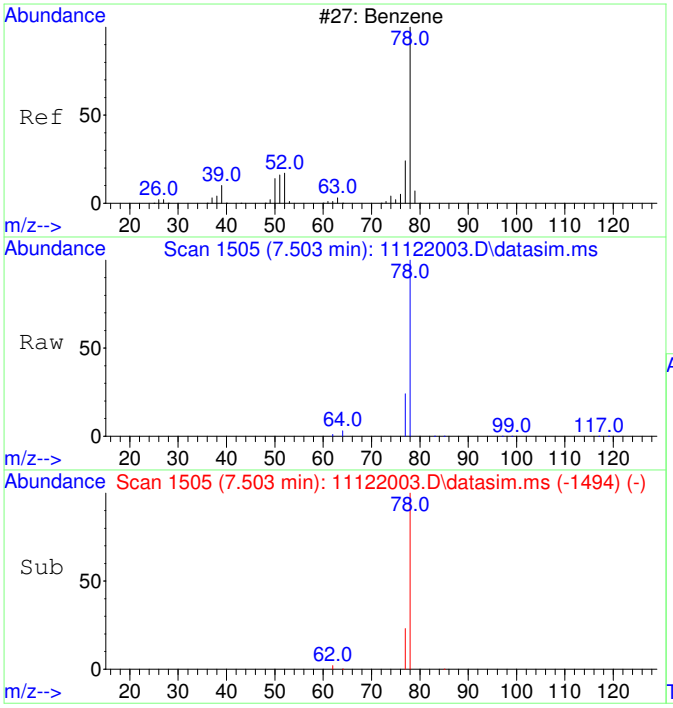


#8
Carbon tetrachloride
Concen: 4818.17 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:117 Resp: 116483

Ion	Ratio	Lower	Upper
117	100		
119	96.1	66.4	126.4

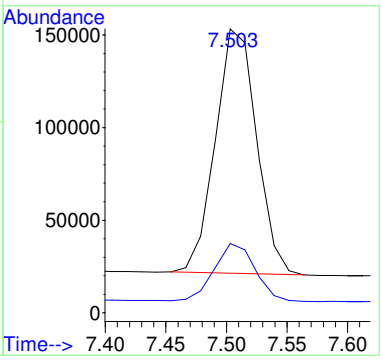


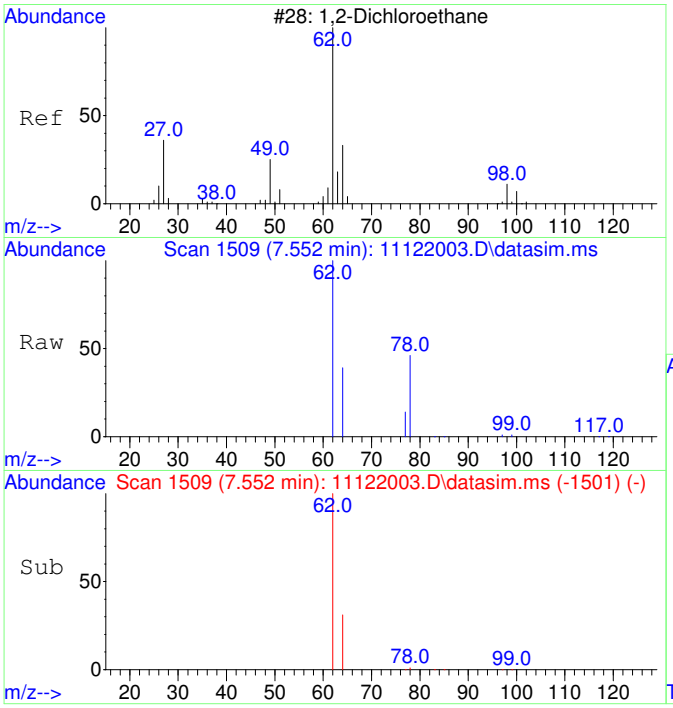


#9
Benzene
Concen: 4828.94 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 78 Resp: 312745

Ion	Ratio	Lower	Upper
78	100		
77	24.3	0.0	53.2

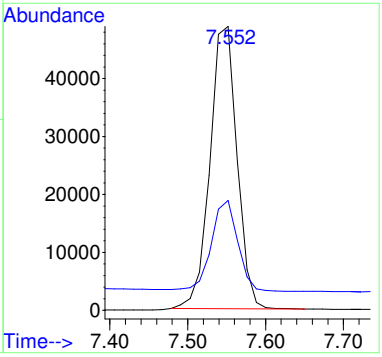


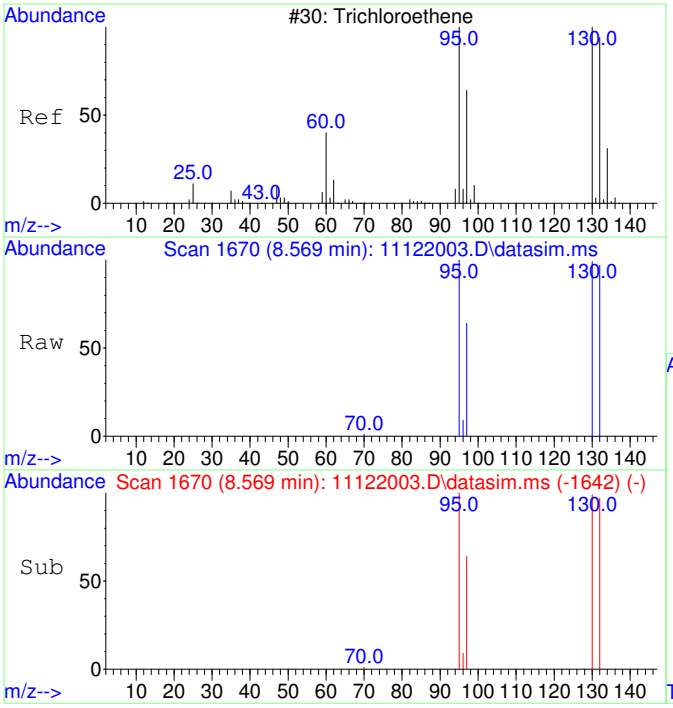


#10
1,2-Dichloroethane
Concen: 5084.99 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 62 Resp: 117563

Ion	Ratio	Lower	Upper
62	100		
64	31.6	2.3	62.3

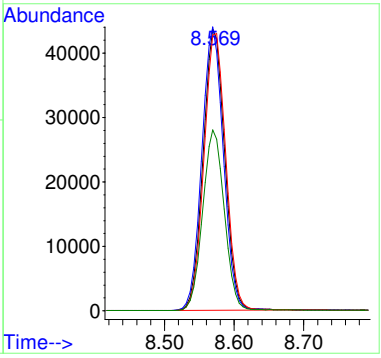


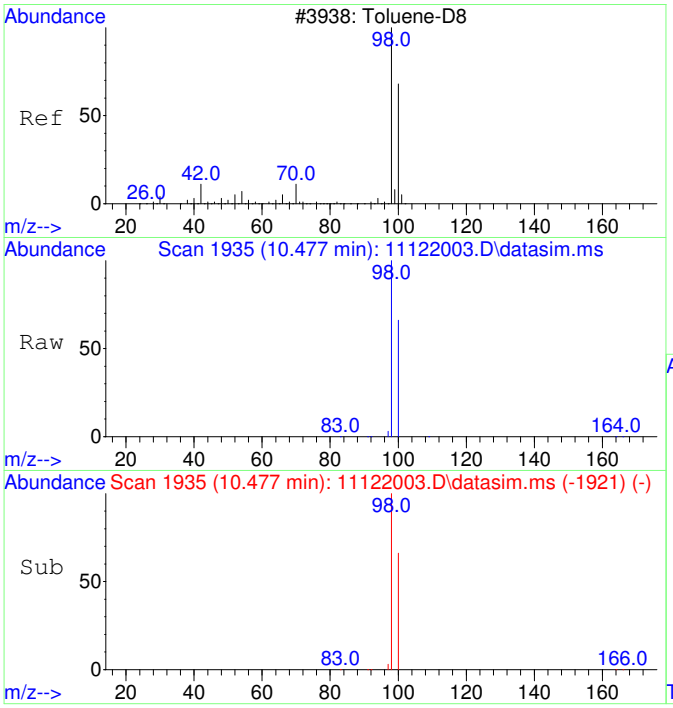


#11
Trichloroethene
Concen: 4811.32 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:130 Resp: 93820

Ion	Ratio	Lower	Upper
130	100		
95	100.3	60.7	120.7
132	99.6	76.0	116.0
97	64.3	38.6	78.6

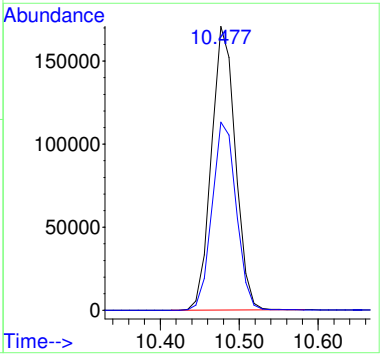


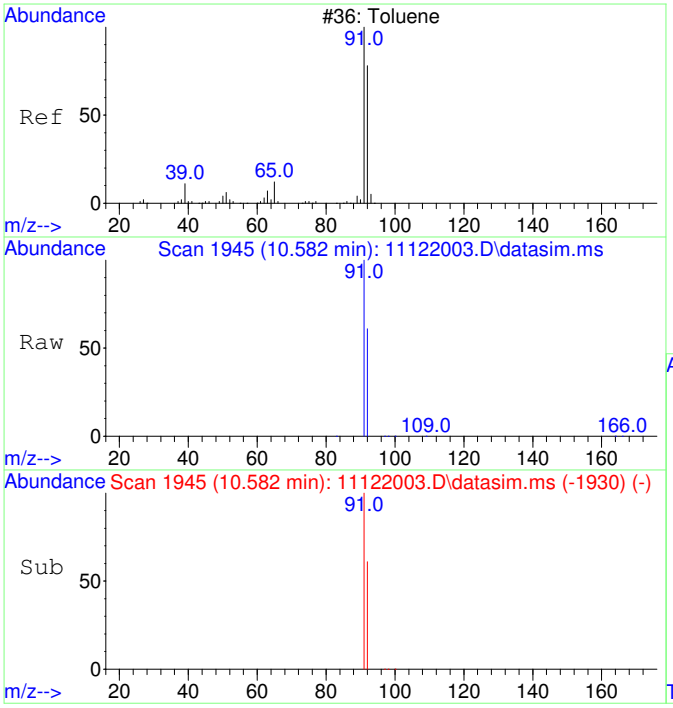


#12
Toluene-d8
Concen: 4815.10 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 98 Resp: 359304

Ion	Ratio	Lower	Upper
98	100		
100	66.7	37.1	97.1

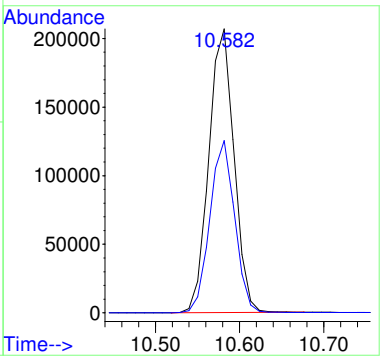


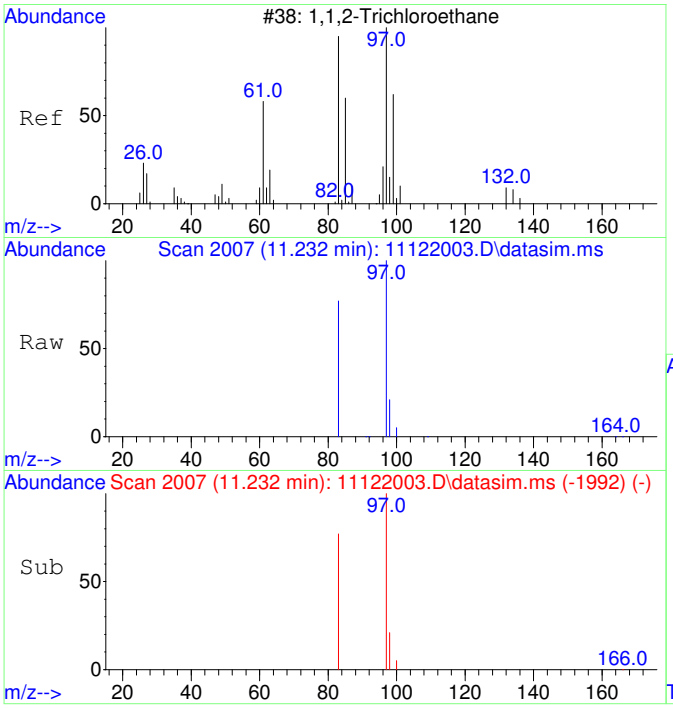


#13
Toluene
Concen: 4528.12 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 91 Resp: 430778

Ion	Ratio	Lower	Upper
91	100		
92	59.6	29.9	89.9

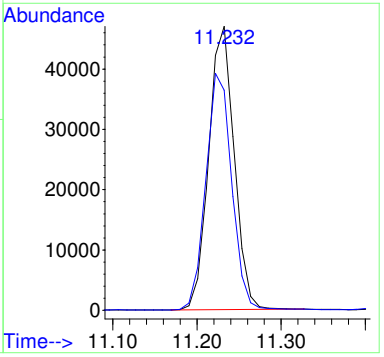


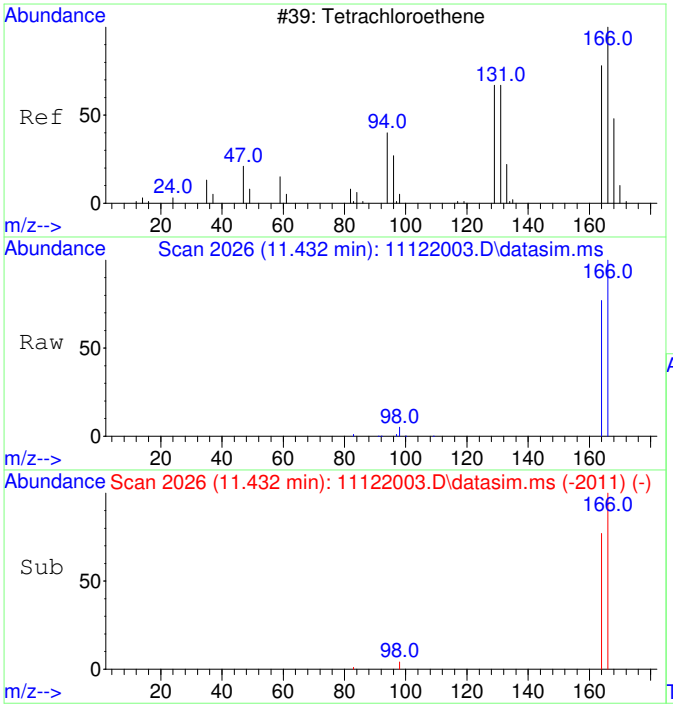


#14
1,1,2-Trichloroethane
Concen: 4770.02 ug/L
RT: 11.232 min Scan# 2007
Delta R.T. 0.010 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 97 Resp: 98881

Ion	Ratio	Lower	Upper
97	100		
83	84.3	51.2	111.2

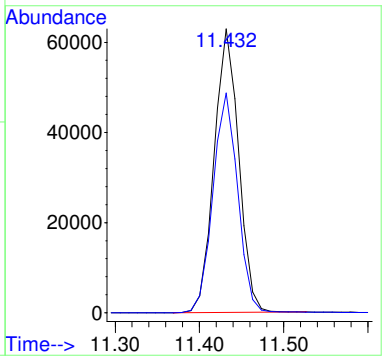


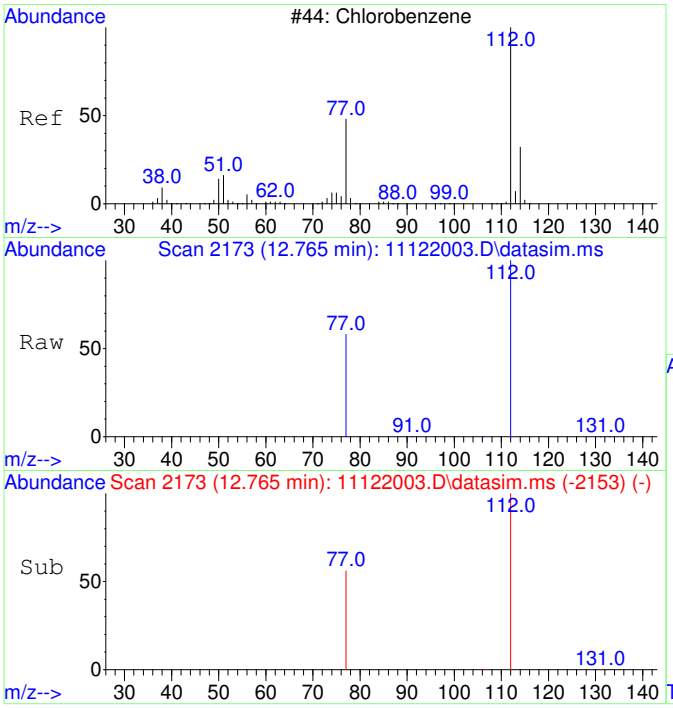


#15
Tetrachloroethene
Concen: 4621.31 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:166 Resp: 127232

Ion	Ratio	Lower	Upper
166	100		
164	77.8	47.8	107.8

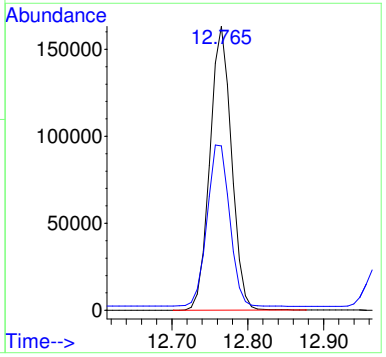


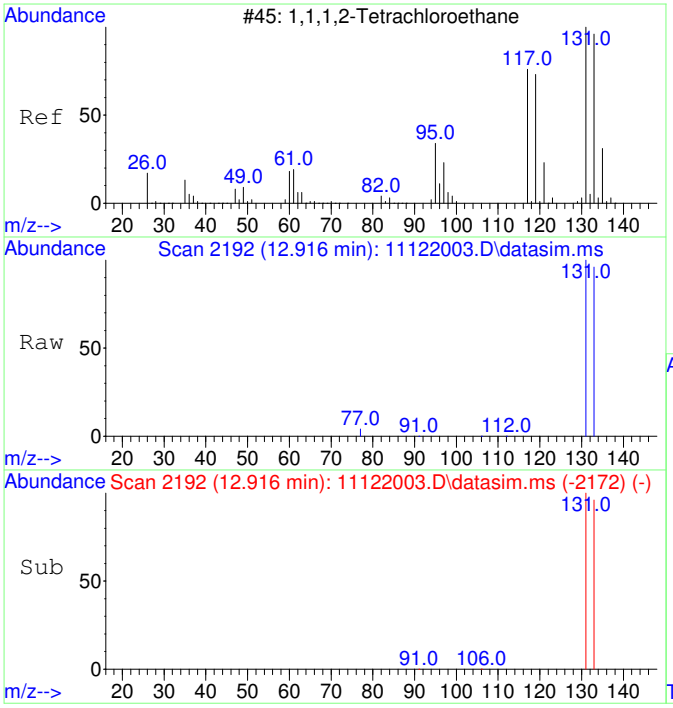


#16
Chlorobenzene
Concen: 4730.65 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:112 Resp: 322249

Ion	Ratio	Lower	Upper
112	100		
77	59.2	23.6	83.6

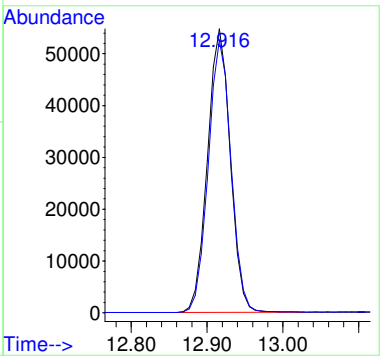


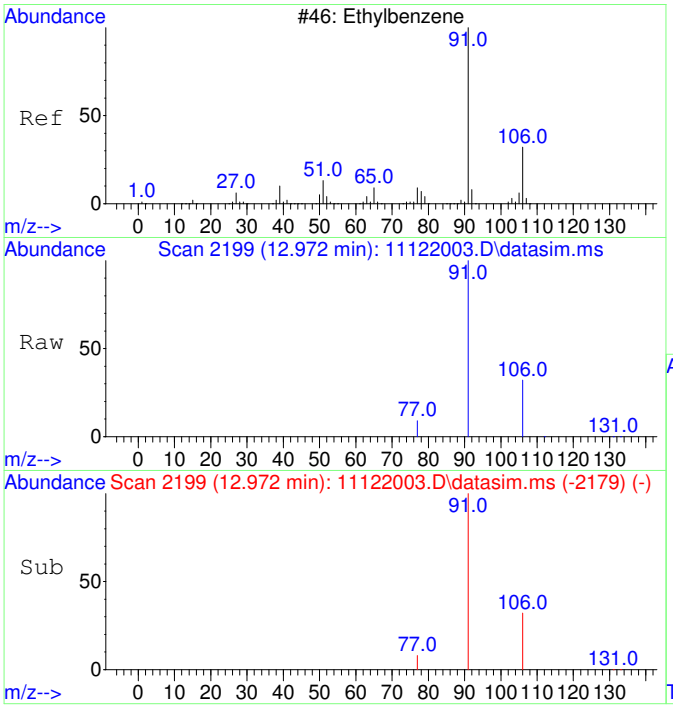


#17
1,1,1,2-Tetrachloroethane
Concen: 4677.37 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. 0.008 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:131 Resp: 114168

Ion	Ratio	Lower	Upper
131	100		
133	95.9	66.3	126.3

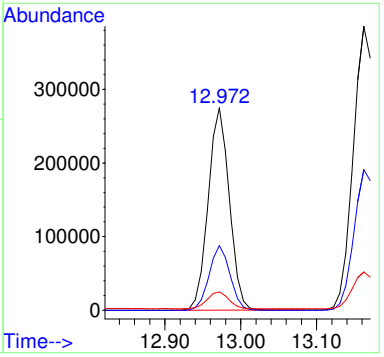


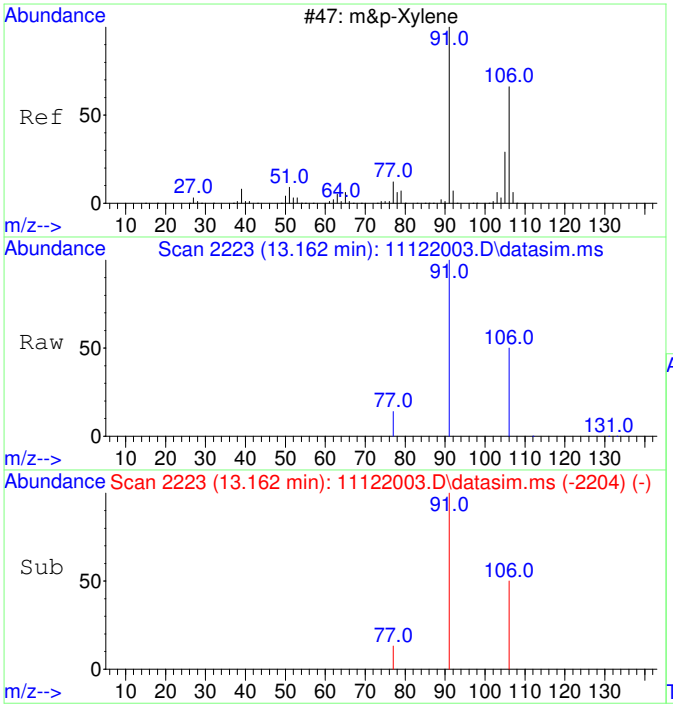


#18
Ethylbenzene
Concen: 4589.42 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 91 Resp: 531446

Ion	Ratio	Lower	Upper
91	100		
106	31.5	3.0	63.0
77	8.5	0.0	38.2

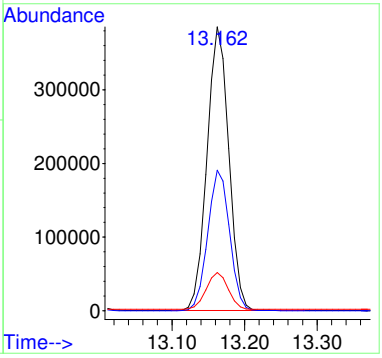


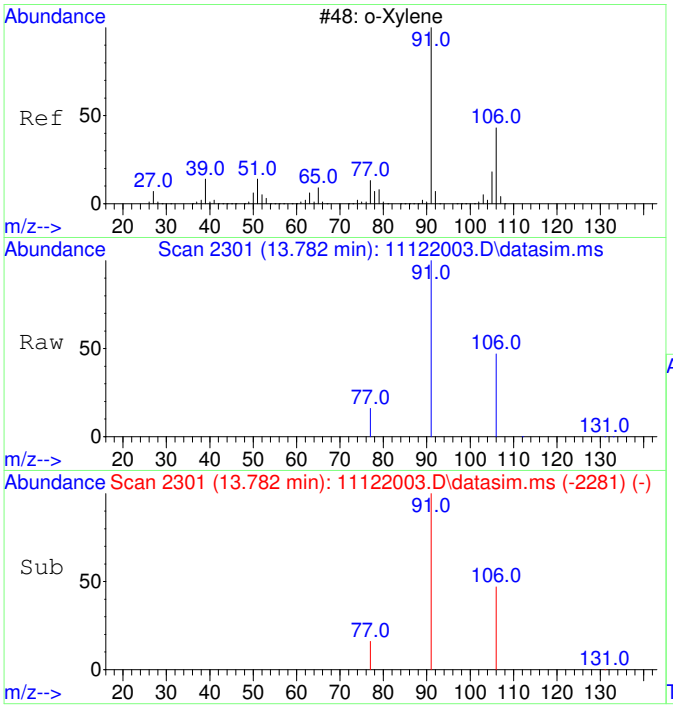


#19
m&p-Xylene
Concen: 8900.75 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 91 Resp: 805549

Ion	Ratio	Lower	Upper
91	100		
106	49.6	22.2	82.2
77	13.0	0.0	42.4

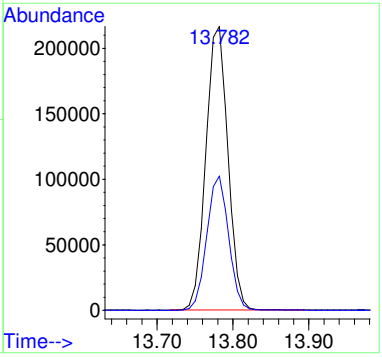


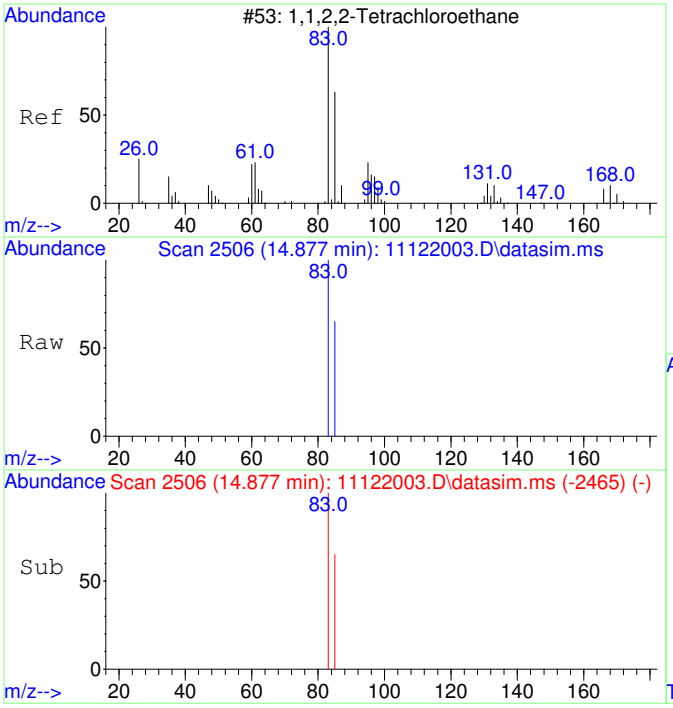


#20
o-Xylene
Concen: 4520.37 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 91 Resp: 437080

Ion	Ratio	Lower	Upper
91	100		
106	46.7	19.2	79.2

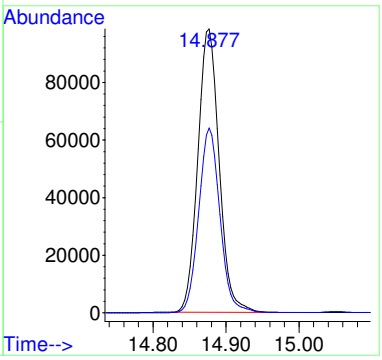


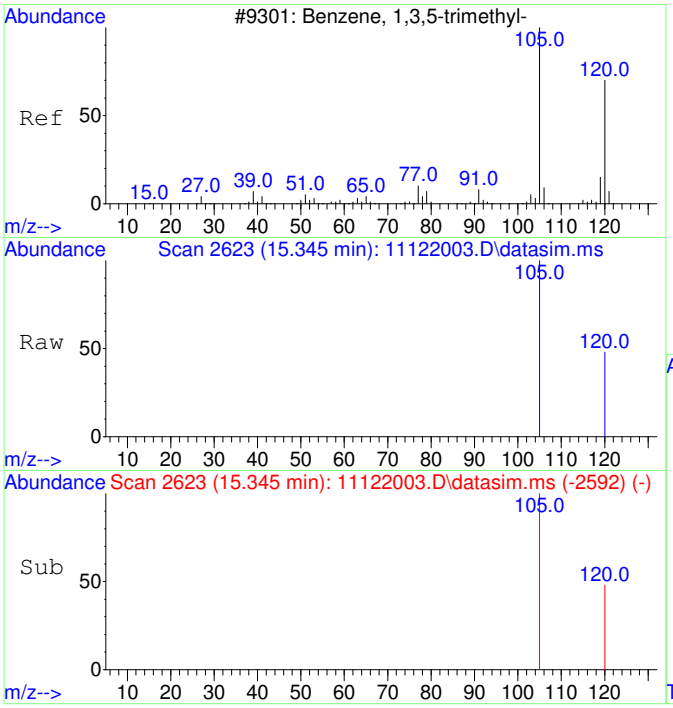


#21
1,1,2,2-Tetrachloroethane
Concen: 4660.18 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. 0.004 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 83 Resp: 199702

Ion	Ratio	Lower	Upper
83	100		
85	64.7	34.8	94.8

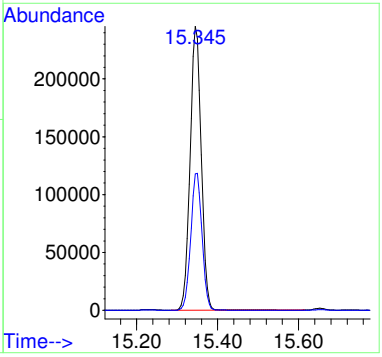


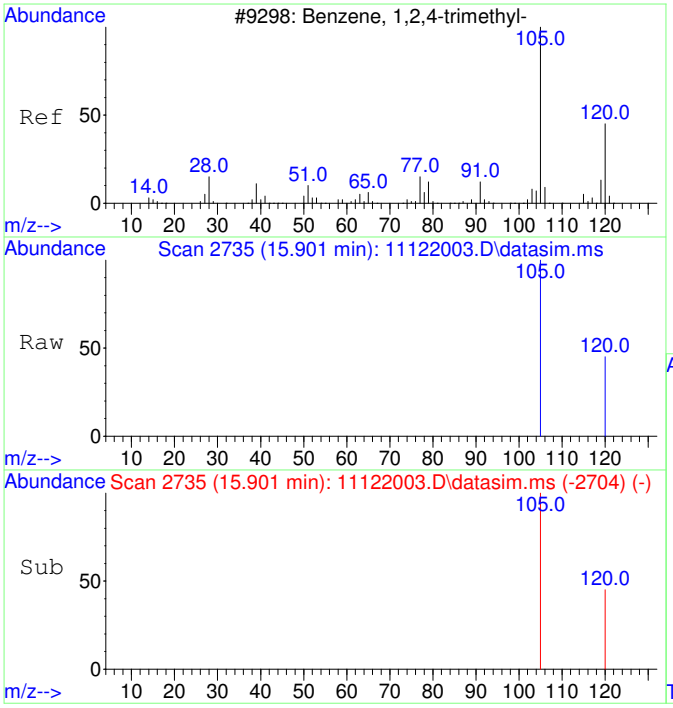


#22
1,3,5-Trimethylbenzene
Concen: 4543.78 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:105 Resp: 467630

Ion	Ratio	Lower	Upper
105	100		
120	48.7	21.1	81.1

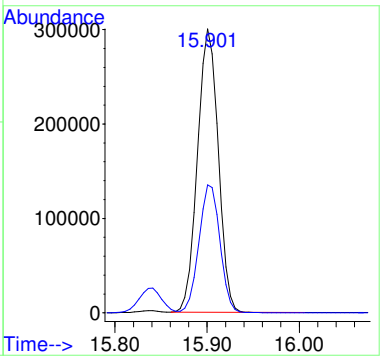


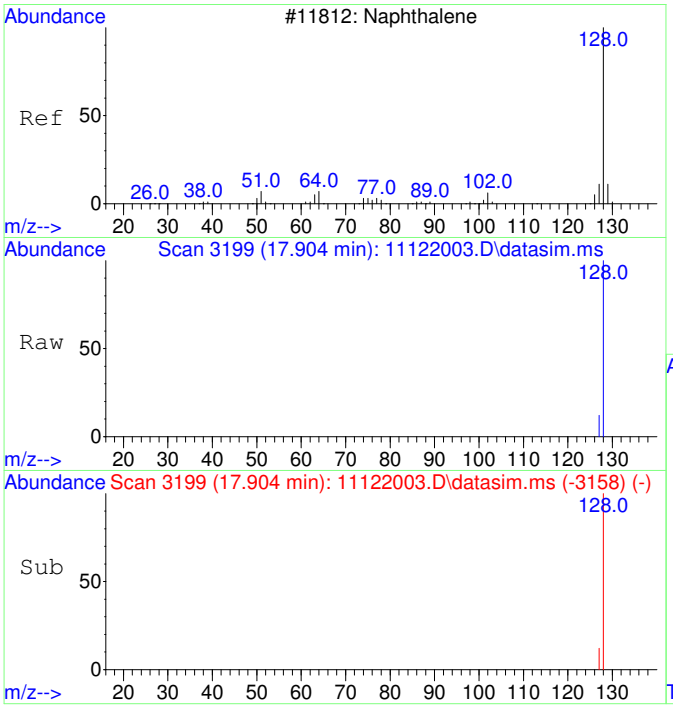


#23
1,2,4-Trimethylbenzene
Concen: 4403.42 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:105 Resp: 470722

Ion	Ratio	Lower	Upper
105	100		
120	44.8	17.2	77.2

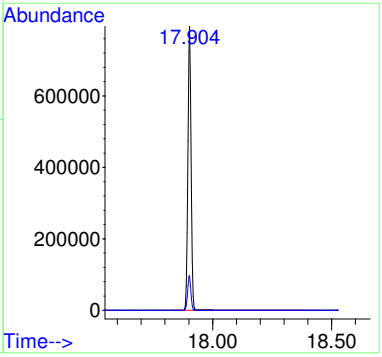


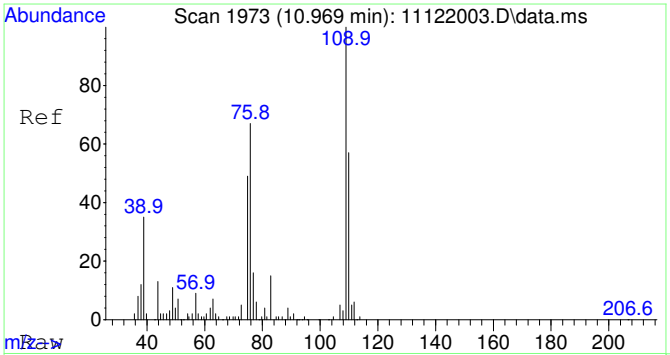


#24
Naphthalene
Concen: 4590.61 ug/L
RT: 17.904 min Scan# 3199
Delta R.T. 0.001 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:128 Resp: 775602

Ion	Ratio	Lower	Upper
128	100		
127	12.4	0.0	42.5

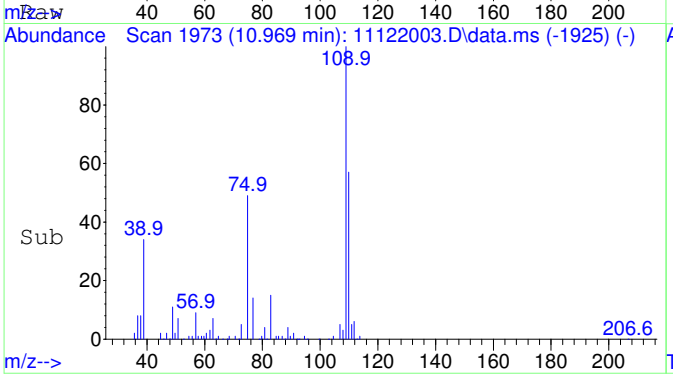


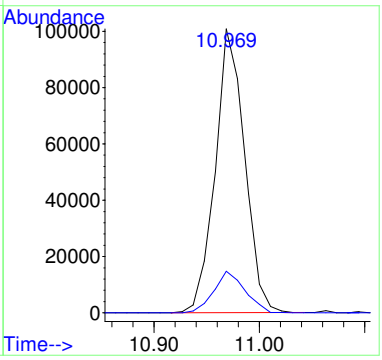


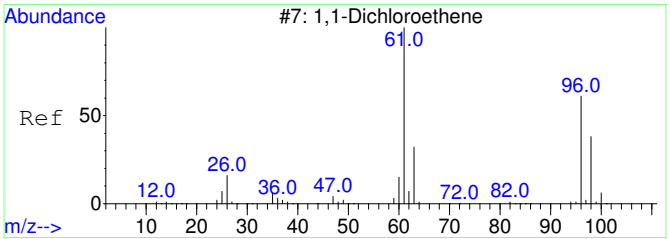
#25
2-Fluorotoluene SCAN
Concen: 5263.02 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

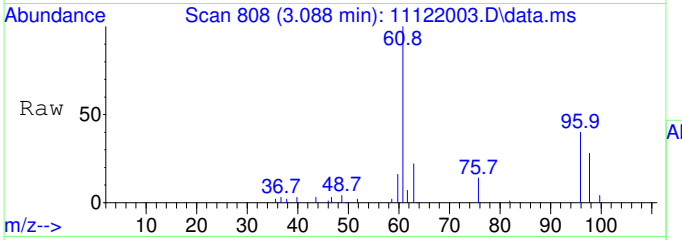
Tgt Ion:109 Resp: 195564

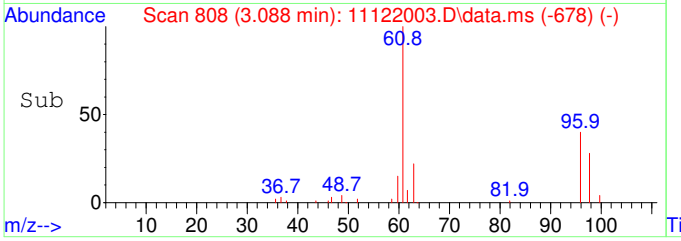
Ion	Ratio	Lower	Upper
109	100		
83	15.6	0.0	43.8







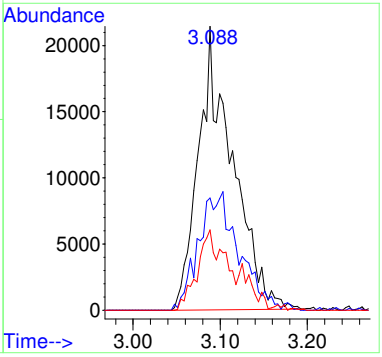


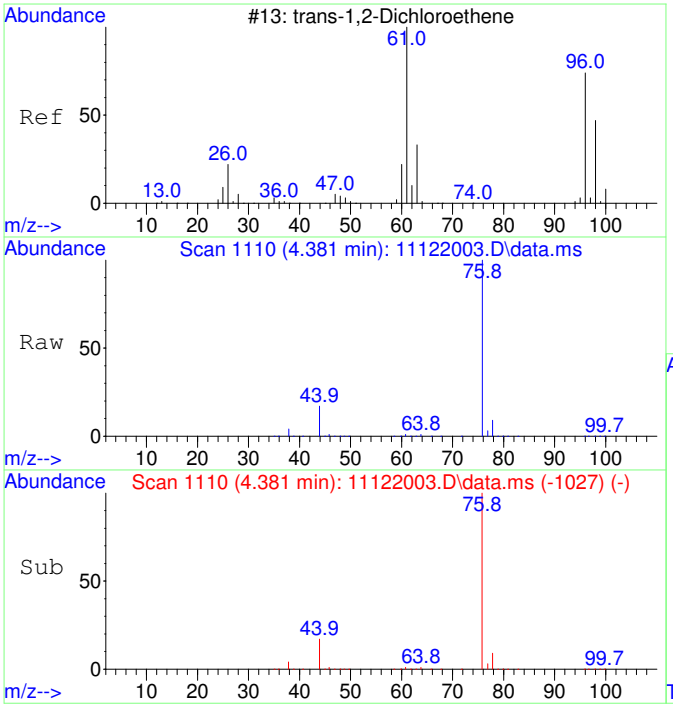


#26
1,1-Dichloroethene SCAN
Concen: 7383.08 ug/L
RT: 3.088 min Scan# 808
Delta R.T. -0.019 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 61 Resp: 58262

Ion	Ratio	Lower	Upper
61	100		
96	48.5	33.1	93.1
98	28.4	11.2	71.2

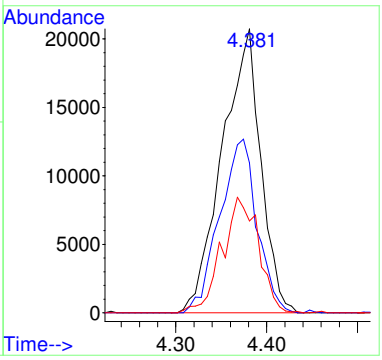


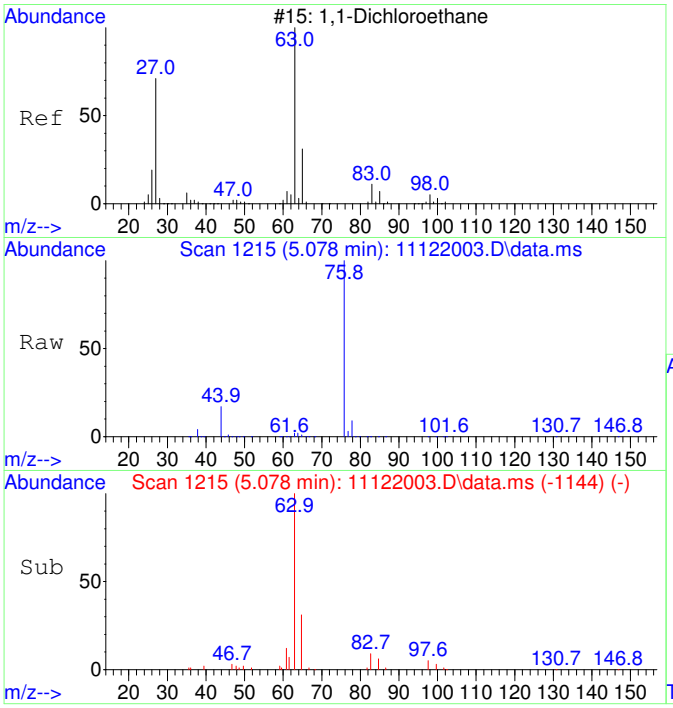


#27
trans-1,2-Dichloroethene SCAN
Concen: 6264.56 ug/L
RT: 4.381 min Scan# 1110
Delta R.T. -0.020 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 61 Resp: 61173

Ion	Ratio	Lower	Upper
61	100		
96	59.3	49.0	109.0
98	38.7	20.5	80.5

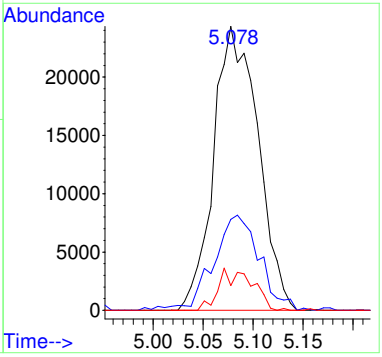


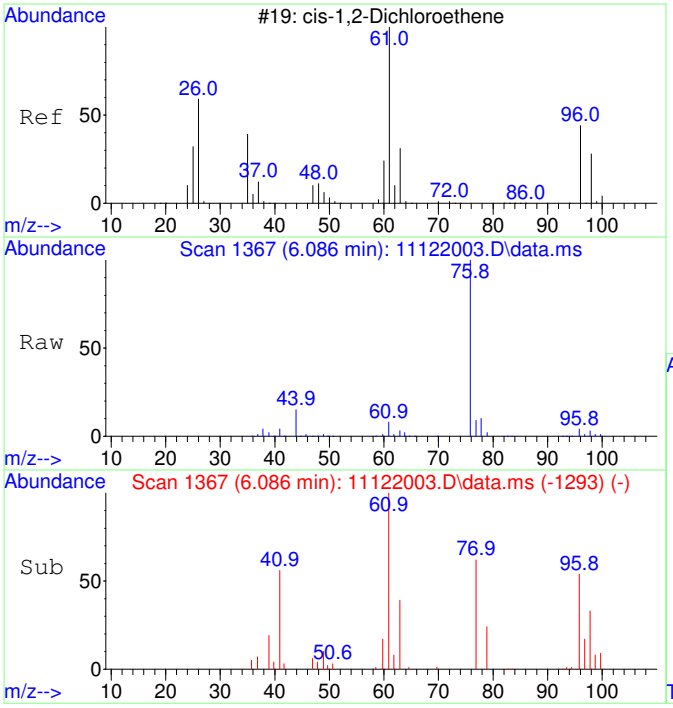


#28
1,1-Dichloroethane SCAN
Concen: 6659.04 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. -0.027 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 63 Resp: 75254

Ion	Ratio	Lower	Upper
63	100		
65	34.8	1.3	61.3
83	11.1	0.0	45.9

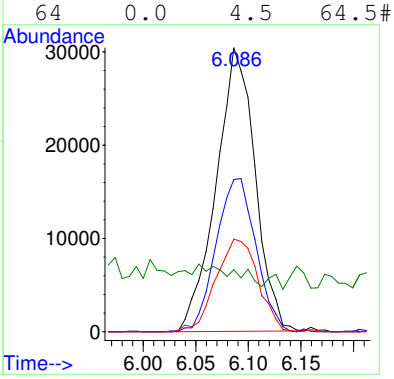


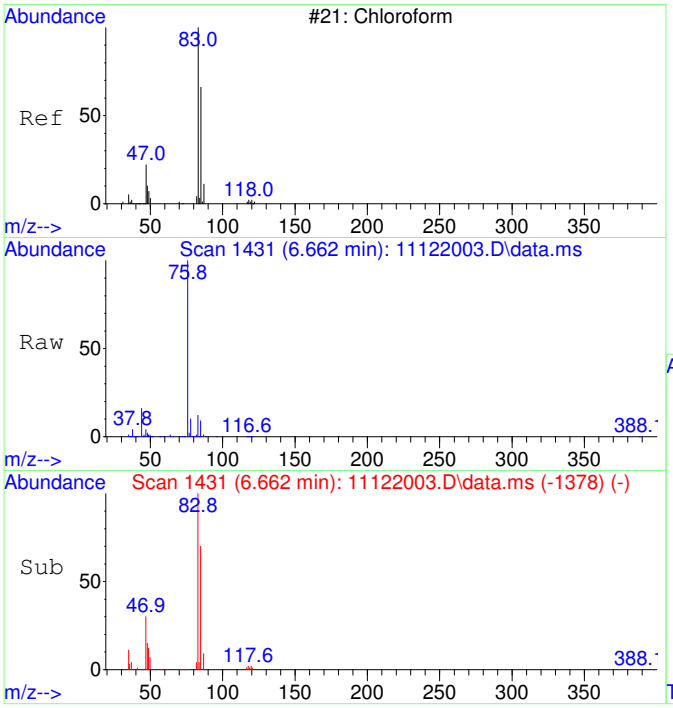


#29
cis-1,2-Dichloroethene SCAN
Concen: 6465.42 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 61 Resp: 78283

Ion	Ratio	Lower	Upper
61	100		
96	55.3	39.9	99.9
98	35.4	13.5	73.5
64	0.0	4.5	64.5#

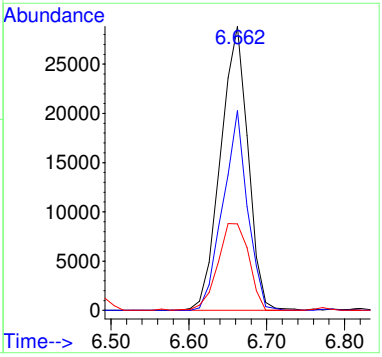


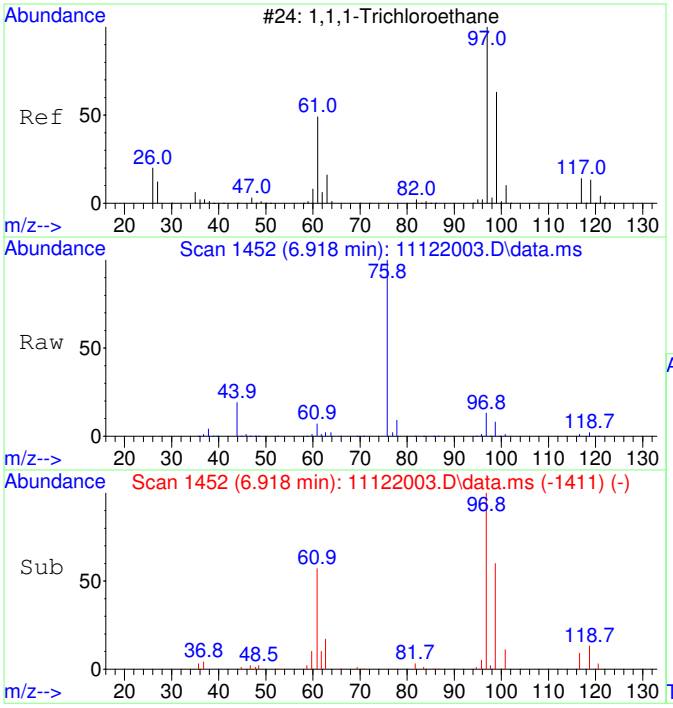


#30
Chloroform SCAN
Concen: 5378.76 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 83 Resp: 70638

Ion	Ratio	Lower	Upper
83	100		
85	62.9	34.6	94.6
47	34.5	0.0	53.4

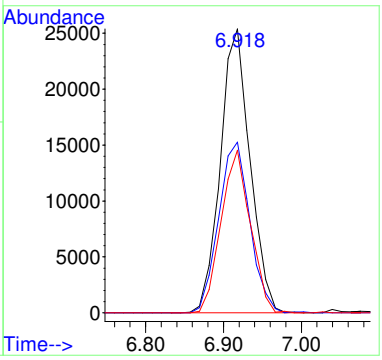


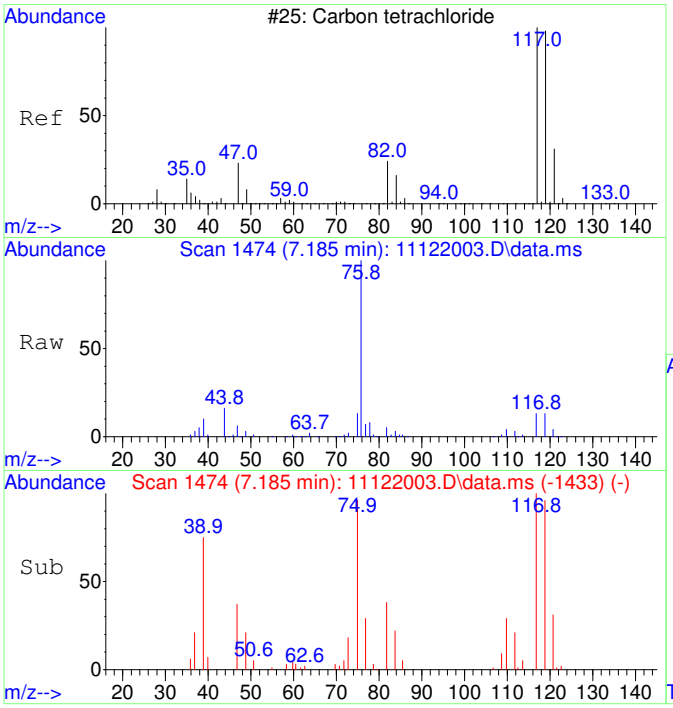


#31
1,1,1-Trichloroethane SCAN
Concen: 5645.05 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 97 Resp: 67558

Ion	Ratio	Lower	Upper
97	100		
99	63.0	43.6	103.6
61	56.3	18.0	78.0

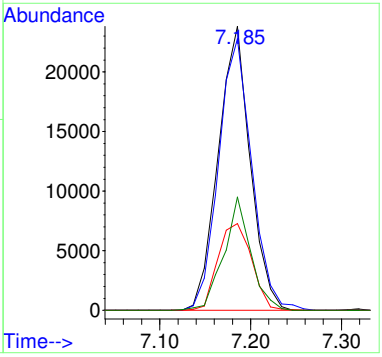


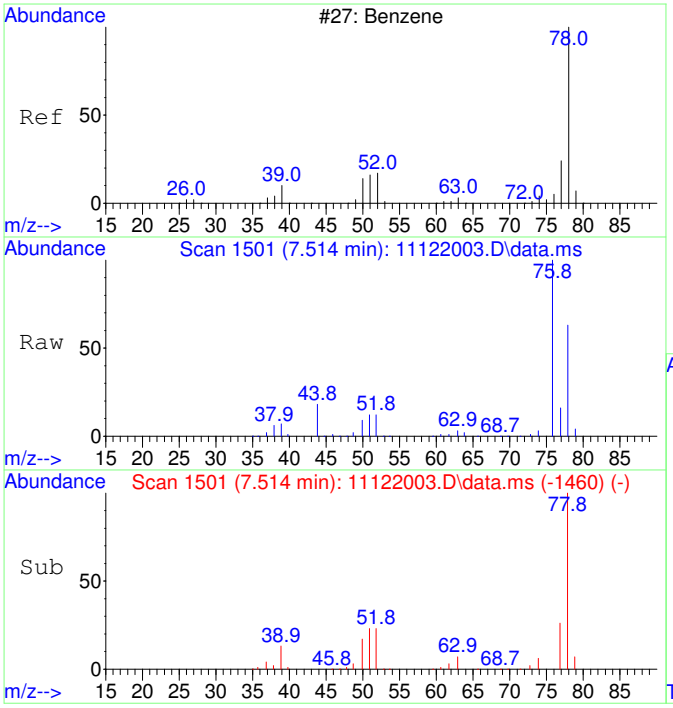


#32
Carbon tetrachloride SCAN
Concen: 4668.45 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:117 Resp: 58279

Ion	Ratio	Lower	Upper
117	100		
119	99.2	75.5	135.5
121	32.3	0.0	58.8
82	33.6	0.0	59.2

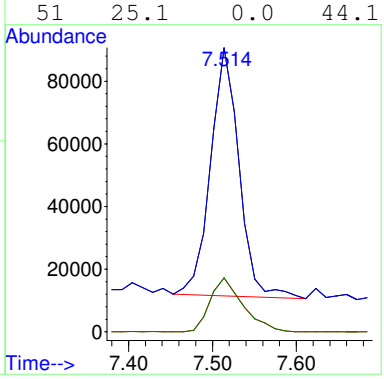


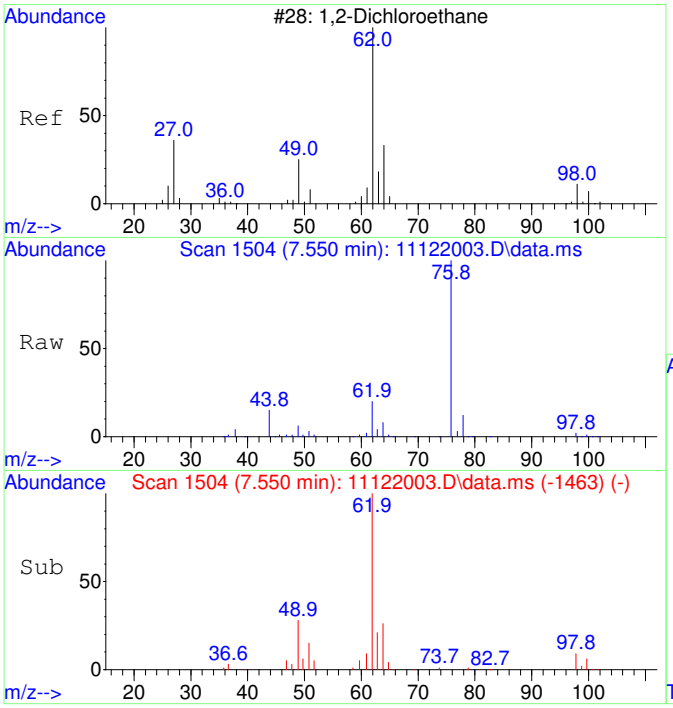


#33
Benzene SCAN
Concen: 5647.59 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 78 Resp: 186096

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	25.1	0.0	47.9
51	25.1	0.0	44.1

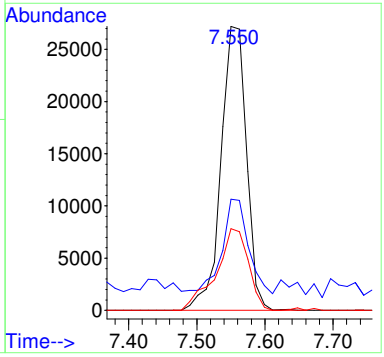


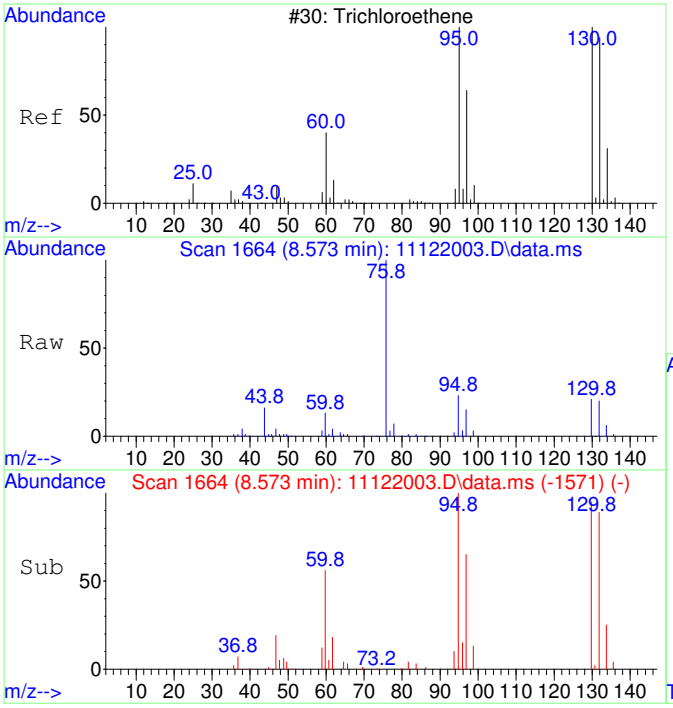


#34
1,2-Dichloroethane SCAN
Concen: 5807.97 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 62 Resp: 70668

Ion	Ratio	Lower	Upper
62	100		
64	32.5	5.2	65.2
49	36.3	3.9	63.9

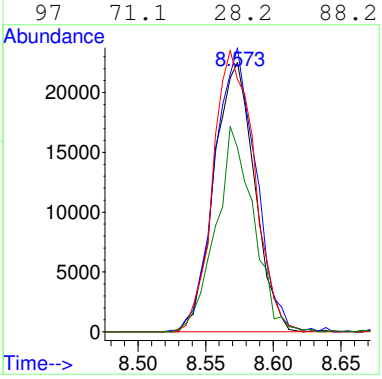


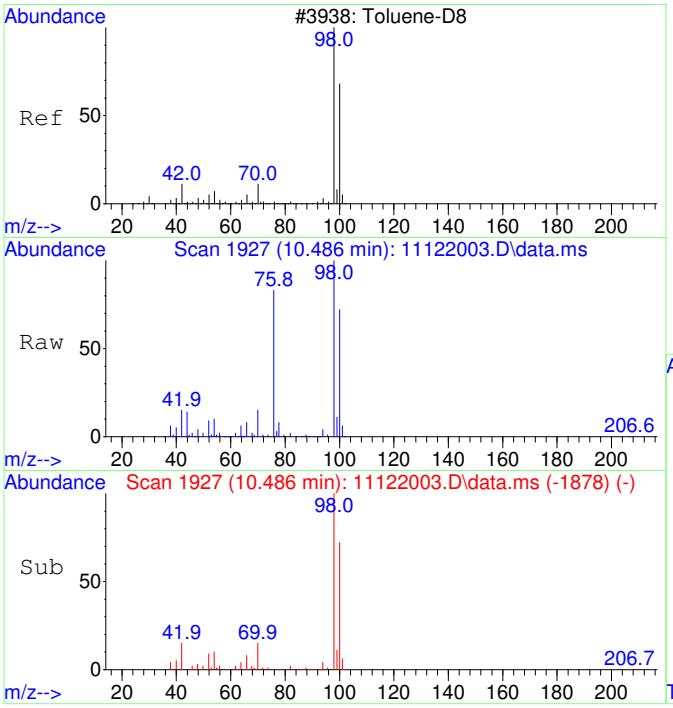


#35
Trichloroethene SCAN
Concen: 5177.32 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.005 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:130 Resp: 46882

Ion	Ratio	Lower	Upper
130	100		
95	107.7	60.5	120.5
132	106.5	59.6	119.6
97	71.1	28.2	88.2

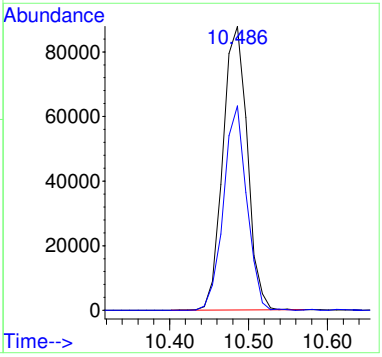


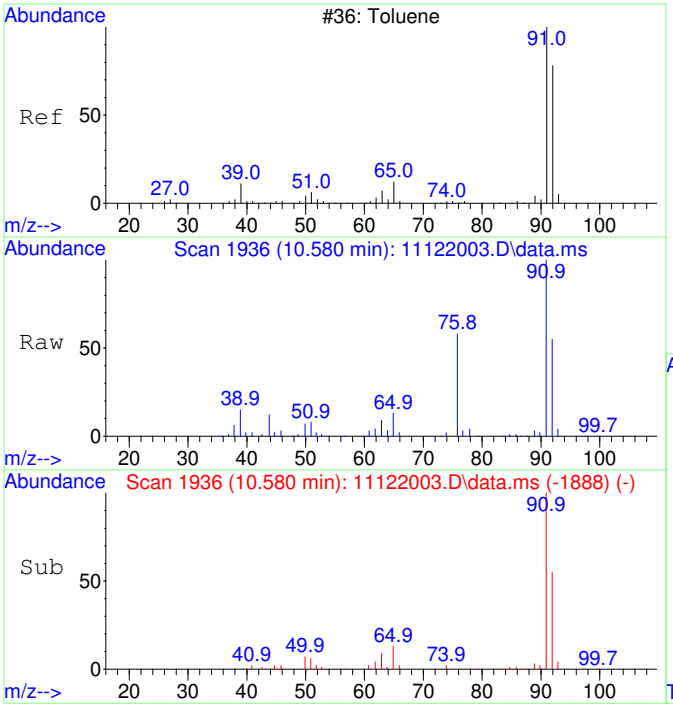


#36
Toluene-d8 SCAN
Concen: 5185.68 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 98 Resp: 188445

Ion	Ratio	Lower	Upper
98	100		
100	68.5	40.0	100.0

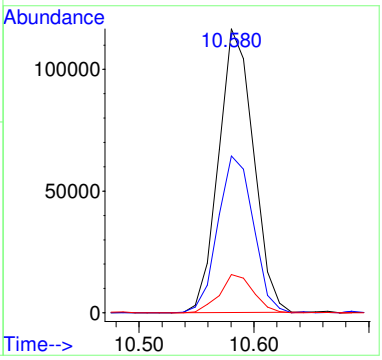


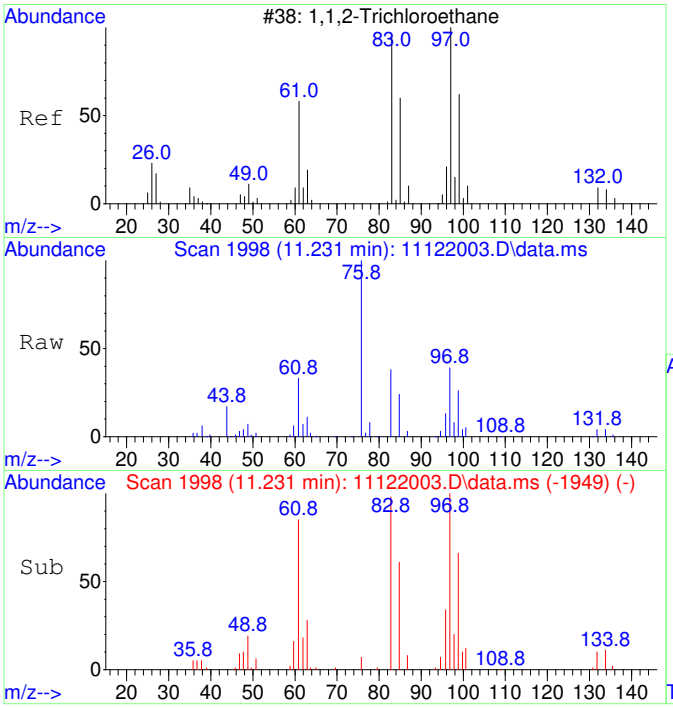


#37
Toluene SCAN
Concen: 5292.00 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 91 Resp: 246280

Ion	Ratio	Lower	Upper
91	100		
92	56.2	28.3	88.3
65	13.1	0.0	41.0

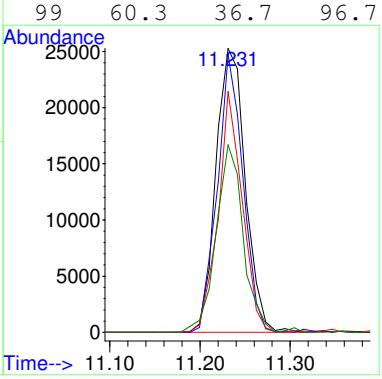


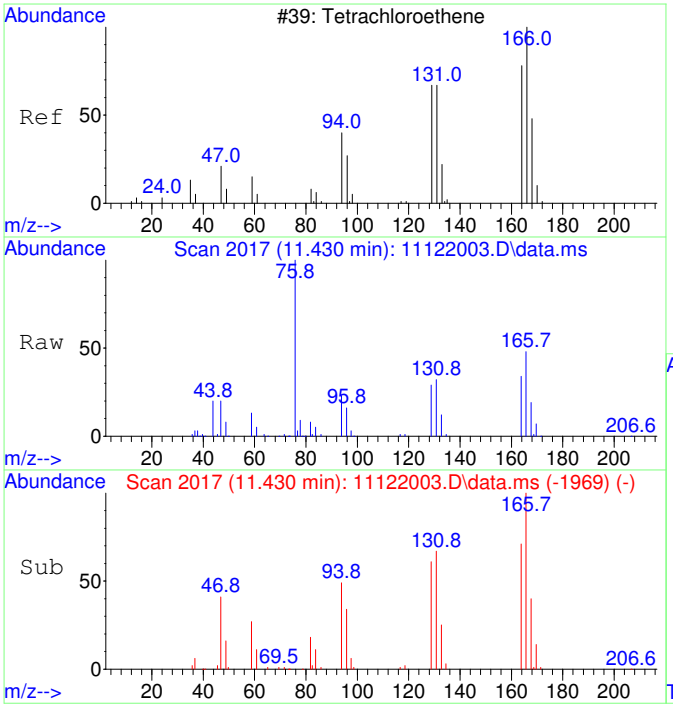


#38
1,1,2-Trichloroethane SCAN
Concen: 5483.14 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. 0.010 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 97 Resp: 57276

Ion	Ratio	Lower	Upper
97	100		
83	85.4	57.7	117.7
61	69.6	32.1	92.1
99	60.3	36.7	96.7

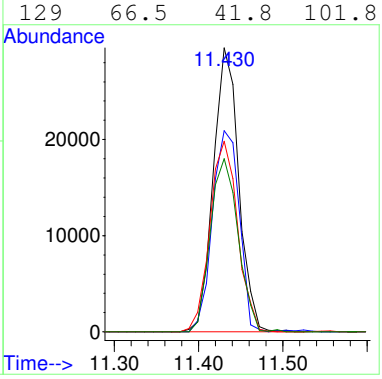


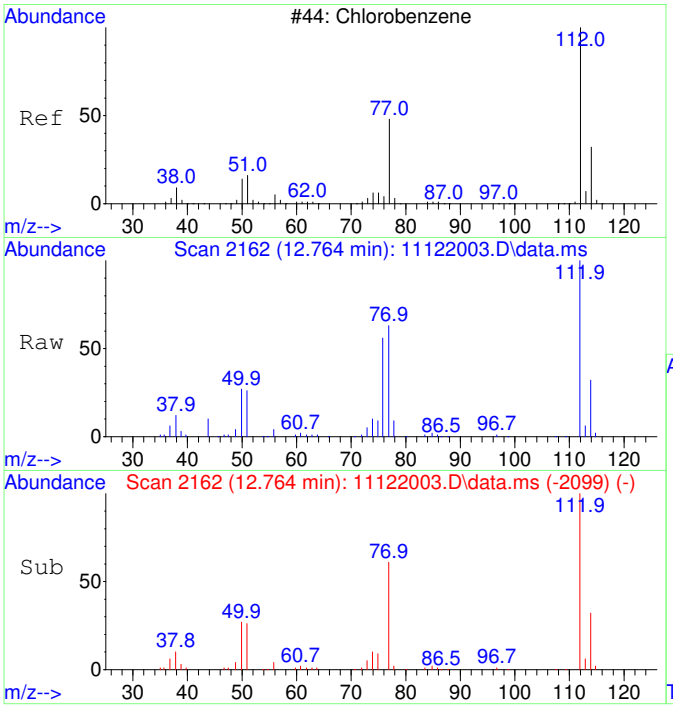


#39
Tetrachloroethene SCAN
Concen: 5562.56 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:166 Resp: 62193

Ion	Ratio	Lower	Upper
166	100		
164	74.3	50.9	110.9
131	73.1	38.7	98.7
129	66.5	41.8	101.8

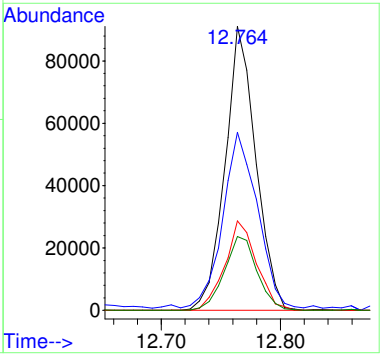


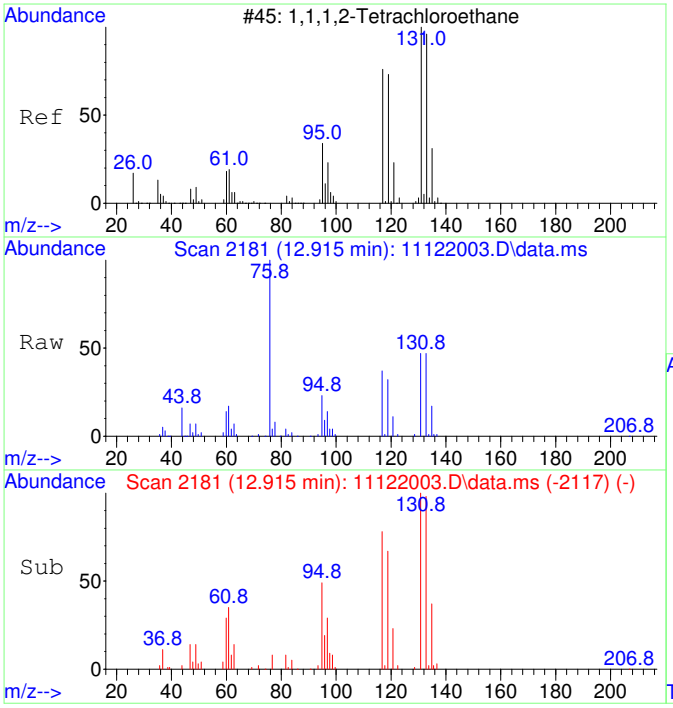


#40
Chlorobenzene SCAN
Concen: 5153.84 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:112 Resp: 163895

Ion	Ratio	Lower	Upper
112	100		
77	72.1	28.2	88.2
114	32.5	2.3	62.3
51	27.6	0.0	50.1

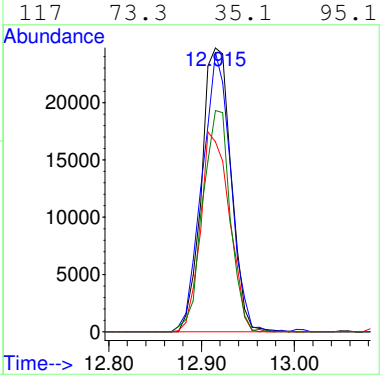


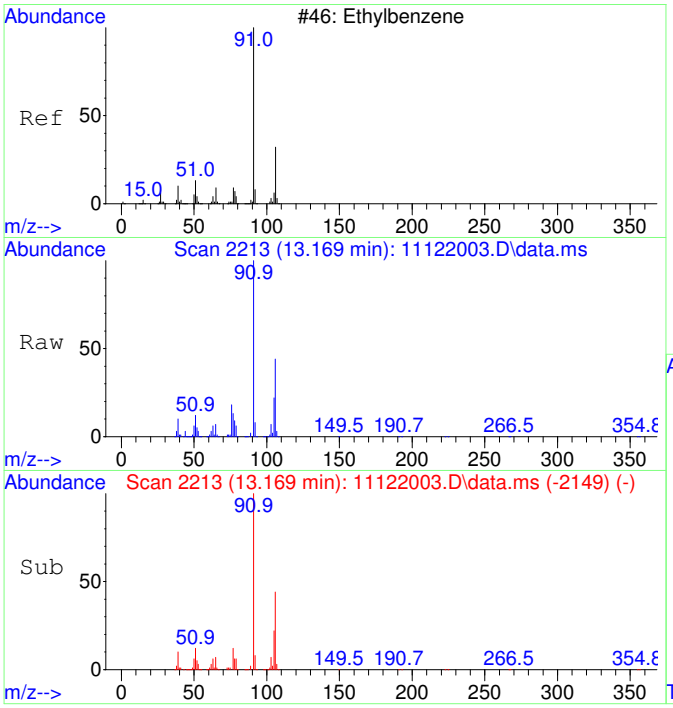


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 4649.54 ug/L
RT: 12.915 min Scan# 2181
Delta R.T. 0.008 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:131 Resp: 54719

Ion	Ratio	Lower	Upper
131	100		
133	95.8	66.9	126.9
119	69.0	40.4	100.4
117	73.3	35.1	95.1

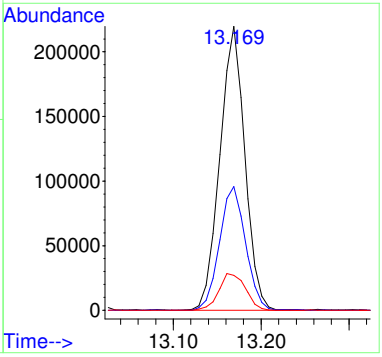


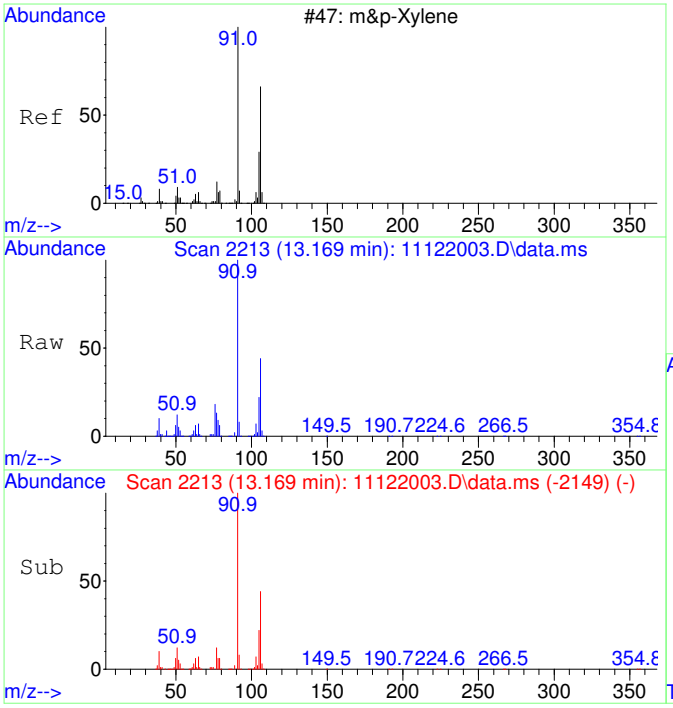


#42
Ethylbenzene SCAN
Concen: 5101.79 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 91 Resp: 432552

Ion	Ratio	Lower	Upper
91	100		
106	45.6	23.1	83.1
51	13.9	0.0	40.1

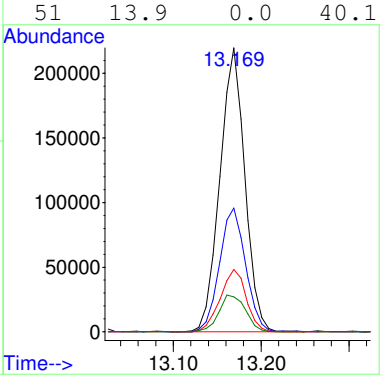


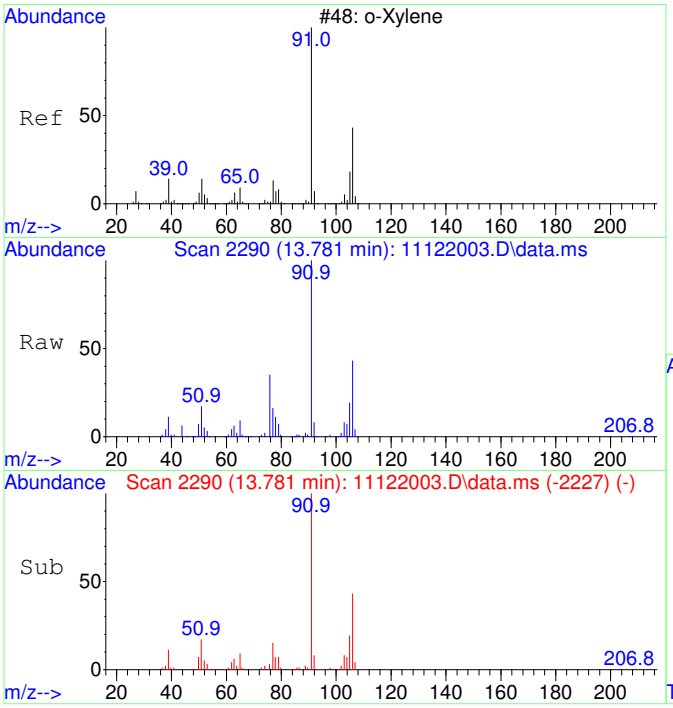


#43
m&p-Xylene SCAN
Concen: 5101.79 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 91 Resp: 432552

Ion	Ratio	Lower	Upper
91	100		
106	45.6	23.1	83.1
105	22.9	0.0	54.7
51	13.9	0.0	40.1

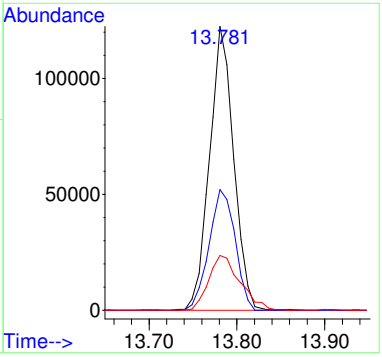


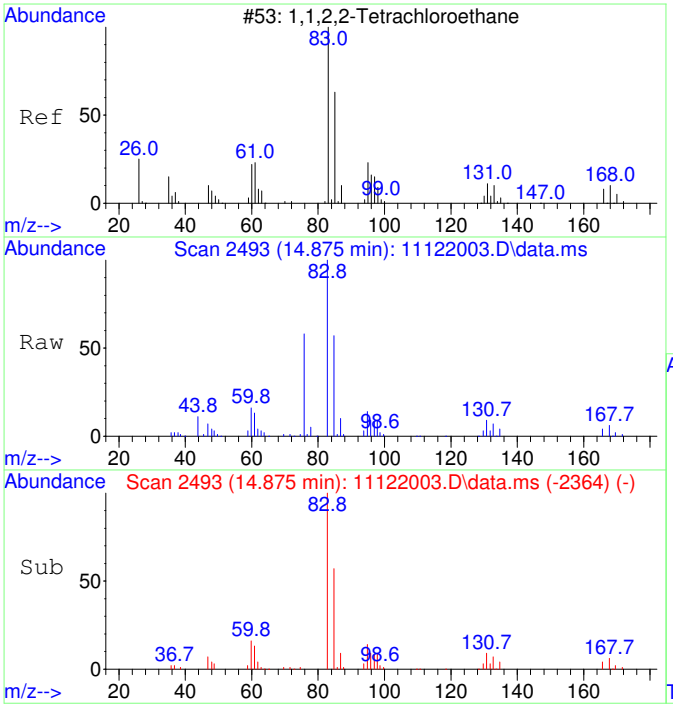


#44
o-Xylene SCAN
Concen: 5177.60 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 91 Resp: 234975

Ion	Ratio	Lower	Upper
91	100		
106	45.8	18.0	78.0
105	25.1	0.0	56.6

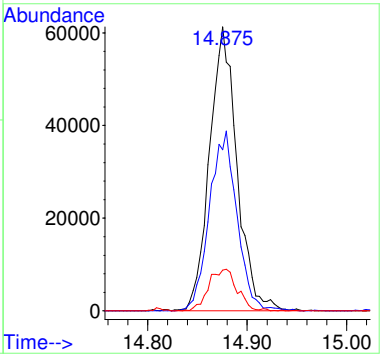


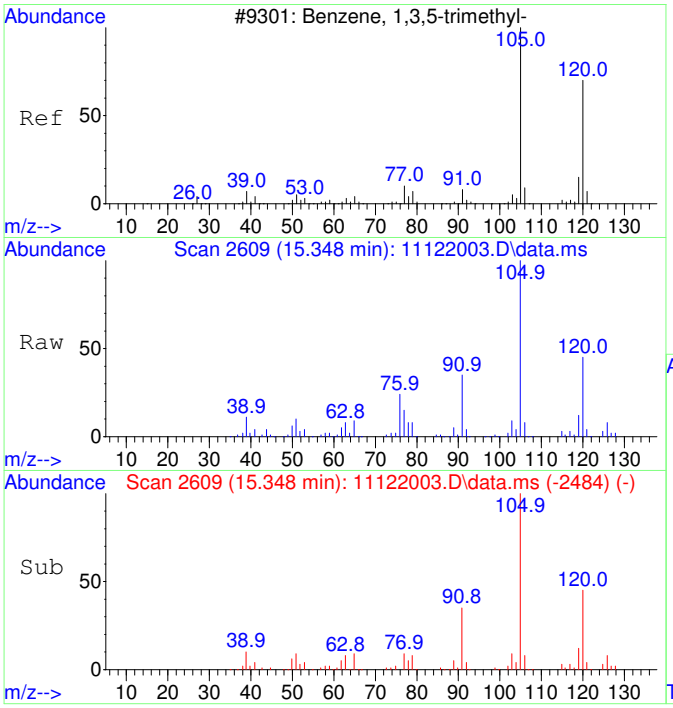


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 5315.20 ug/L
RT: 14.875 min Scan# 2493
Delta R.T. 0.004 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion: 83 Resp: 117622

Ion	Ratio	Lower	Upper
83	100		
85	63.4	35.9	95.9
95	14.7	0.0	47.4

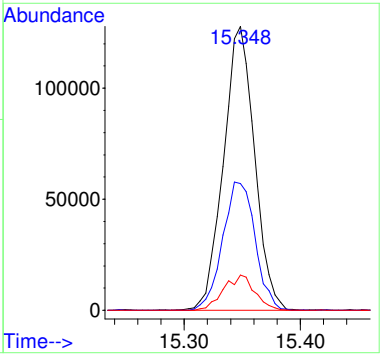


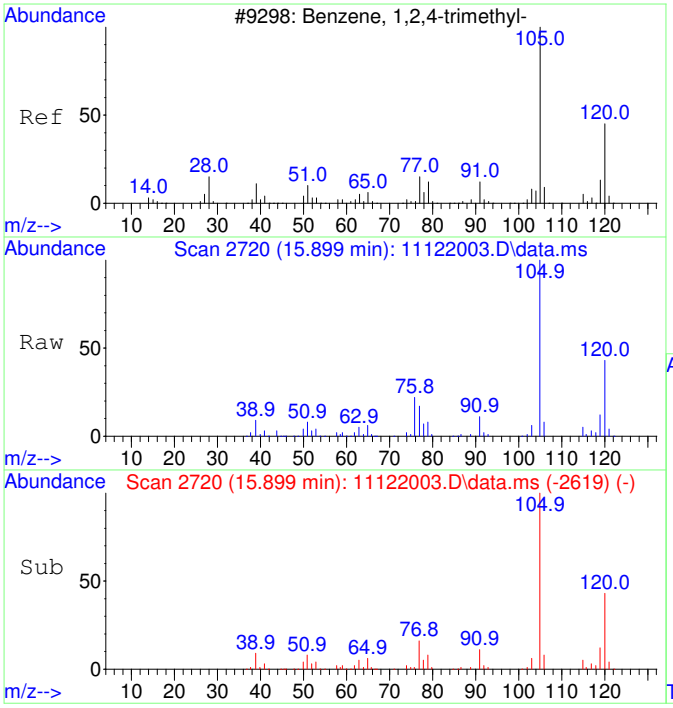


#46
1,3,5-Trimethylbenzene SCAN
Concen: 4964.89 ug/L
RT: 15.348 min Scan# 2609
Delta R.T. 0.005 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:105 Resp: 237466

Ion	Ratio	Lower	Upper
105	100		
120	47.2	18.3	78.3
119	12.5	0.0	43.1

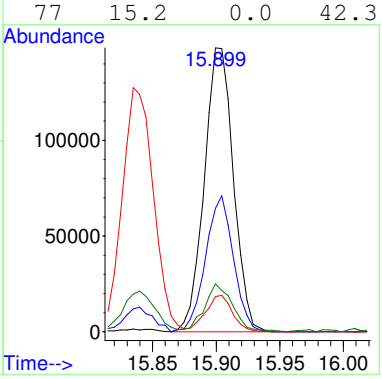


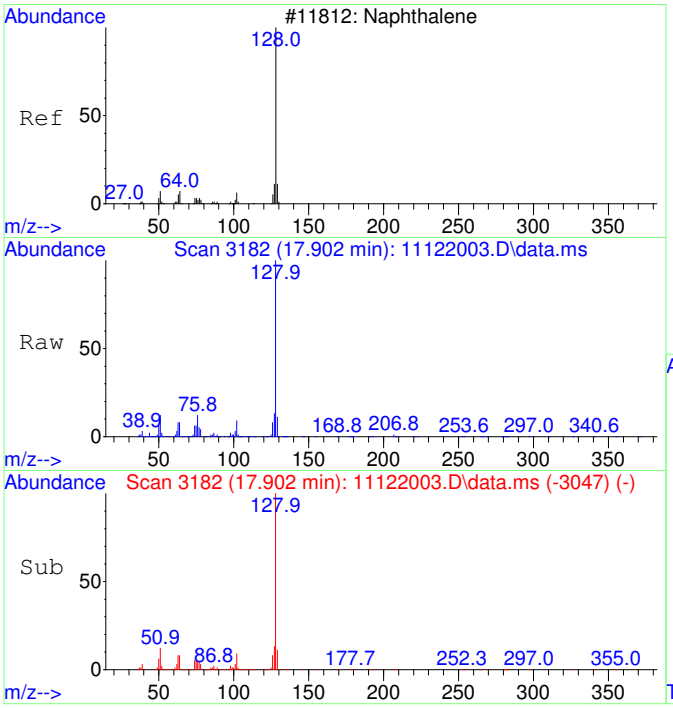


#47
1,2,4-Trimethylbenzene SCAN
Concen: 4822.99 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.000 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:105 Resp: 236036

Ion	Ratio	Lower	Upper
105	100		
120	45.8	16.9	76.9
119	10.5	0.0	41.9
77	15.2	0.0	42.3

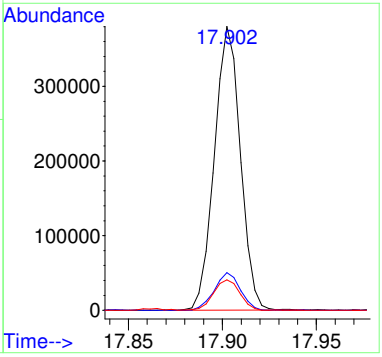




#48
Naphthalene SCAN
Concen: 4930.99 ug/L
RT: 17.902 min Scan# 3182
Delta R.T. 0.001 min
Lab File: 11122003.D
Acq: 12 Nov 2020 9:15

Tgt Ion:128 Resp: 365158

Ion	Ratio	Lower	Upper
128	100		
127	13.3	0.0	44.0
129	10.9	0.0	40.8



S20K052-CRL1

QLS REPORT

Instrument Name: AG5975C
Sample Name: S20K052-CRL1
Misc Info: 2030073 0.05 mg/L
Date Acquired: 11/12/20 9:39
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	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.090	50.0	51.25	102%	60	140	pass
3)	trans-1,2-Dichloroethene	4.396	50.0	52.40	105%	60	140	pass
4)	1,1-Dichloroethane	5.099	50.0	49.85	100%	60	140	pass
5)	cis-1,2-Dichloroethene	6.094	50.0	51.49	103%	60	140	pass
6)	Chloroform	6.664	50.0	47.05	94%	60	140	pass
7)	1,1,1-Trichloroethane	6.919	50.0	44.93	90%	60	140	pass
8)	Carbon tetrachloride	7.187	50.0	44.17	88%	60	140	pass
10)	1,2-Dichloroethane	7.552	50.0	47.61	95%	60	140	pass
11)	Trichloroethene	8.569	50.0	46.73	93%	60	140	pass
12)	Toluene-d8	10.477	50.0	50.09	100%	60	140	pass
13)	Toluene	10.571	50.0	50.78	102%	60	140	pass
14)	1,1,2-Trichloroethane	11.222	50.0	50.61	101%	60	140	pass
15)	Tetrachloroethene	11.421	50.0	48.90	98%	60	140	pass
16)	Chlorobenzene	12.757	50.0	52.70	105%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.908	50.0	51.58	103%	60	140	pass
18)	Ethylbenzene	12.964	50.0	54.19	108%	60	140	pass
19)	m&p-Xylene	13.162	100.0	107.56	108%	60	140	pass
20)	o-Xylene	13.774	50.0	52.85	106%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.873	50.0	54.48	109%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.345	50.0	55.86	112%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.896	50.0	57.28	115%	60	140	pass
24)	Naphthalene	17.903	50.0	52.44	105%	60	140	pass

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122004.D
Acq On : 12 Nov 2020 9:39
InstName : AG5975C
Operator : TD
Sample : S20K052-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 12 09:58:30 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

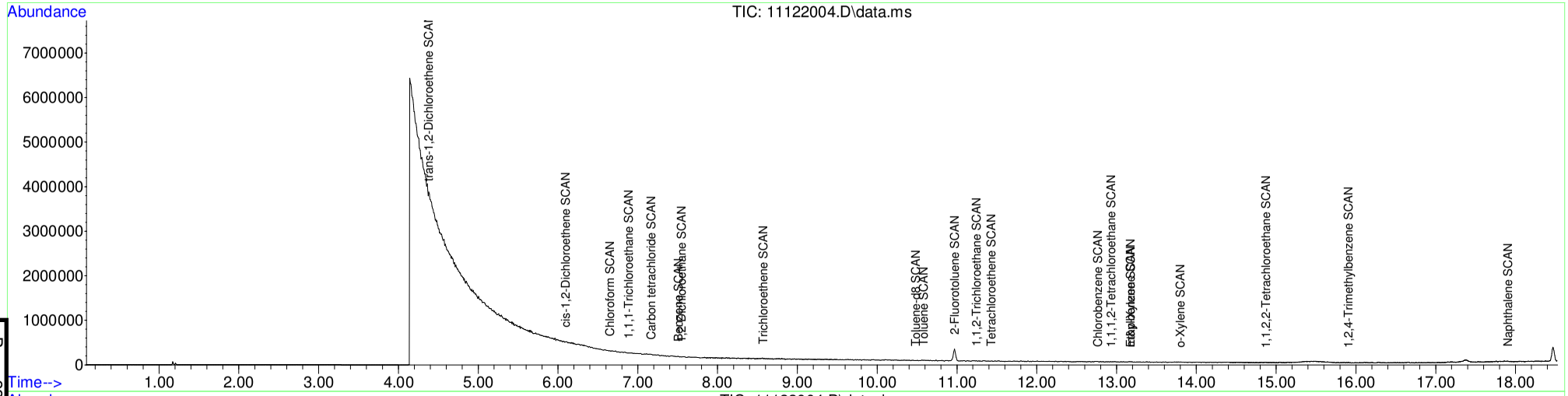
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	406587	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	3987	50.09 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	1.00%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.093	61	1240	76.38 ug/L #	49
3] trans-1,2-Dichloroethene	4.369	61	983	52.40 ug/L	66
4] 1,1-Dichloroethane	5.079	63	1164	49.85 ug/L	67
5] cis-1,2-Dichloroethene	6.081	61	1269	51.49 ug/L	98
6] Chloroform	6.651	83	1187	47.05 ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1231	44.93 ug/L	99
8] Carbon tetrachloride	7.174	117	1139	44.17 ug/L	98
9] Benzene	7.503	78	3775	54.65 ug/L #	6
10] 1,2-Dichloroethane	7.539	62	1174	47.61 ug/L #	22
11] Trichloroethene	8.564	130	972	46.73 ug/L	90
13] Toluene	10.571	91	5153	50.78 ug/L	99
14] 1,1,2-Trichloroethane	11.222	97	1119	50.61 ug/L	97
15] Tetrachloroethene	11.432	166	1436	48.90 ug/L	98
16] Chlorobenzene	12.765	112	3829	52.70 ug/L	75
17] 1,1,1,2-Tetrachloroethane	12.916	131	1343	51.58 ug/L	99
18] Ethylbenzene	12.972	91	6693	54.19 ug/L	95
19] m&p-Xylene	13.162	91	10383	107.56 ug/L	94
20] o-Xylene	13.782	91	5451	52.85 ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.877	83	2490	54.48 ug/L	100
22] 1,3,5-Trimethylbenzene	15.345	105	6132	55.86 ug/L	93
23] 1,2,4-Trimethylbenzene	15.901	105	6531	57.28 ug/L	91
24] Naphthalene	17.902	128	9451	52.44 ug/L	98
25) 2-Fluorotoluene SCAN	10.969	109	207598	5237.78 ug/L	99
27) trans-1,2-Dichloroethe...	4.374	61	276	26.50 ug/L #	43
29) cis-1,2-Dichloroethene...	6.093	61	386	29.89 ug/L #	1
30) Chloroform SCAN	6.650	83	803	57.32 ug/L #	81
31) 1,1,1-Trichloroethane ...	6.881	97	299	23.42 ug/L #	19
32) Carbon tetrachloride SCAN	7.161	117	633	47.54 ug/L #	15
33) Benzene SCAN	7.502	78	8311	236.46 ug/L	94
34) 1,2-Dichloroethane SCAN	7.550	62	782	60.25 ug/L #	40
35) Trichloroethene SCAN	8.573	130	335	34.68 ug/L #	72
36) Toluene-d8 SCAN	10.486	98	2482	64.03 ug/L	87
37) Toluene SCAN	10.580	91	4279	86.20 ug/L	73
38) 1,1,2-Trichloroethane ...	11.241	97	833	74.76 ug/L #	35
39) Tetrachloroethene SCAN	11.430	166	704	59.03 ug/L	89
40) Chlorobenzene SCAN	12.764	112	2266	66.80 ug/L #	78
41) 1,1,1,2-Tetrachloroeth...	12.931	131	652	51.94 ug/L #	10
42) Ethylbenzene SCAN	13.169	91	5494	60.75 ug/L	82
43) m&p-Xylene SCAN	13.169	91	5494	60.75 ug/L	82
44) o-Xylene SCAN	13.796	91	3111	64.27 ug/L	96
45) 1,1,2,2-Tetrachloroeth...	14.872	83	1089	46.14 ug/L	77
47) 1,2,4-Trimethylbenzene...	15.904	105	3455	66.19 ug/L #	79
48) Naphthalene SCAN	17.901	128	5869	74.30 ug/L	92

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122004.D
Acq On : 12 Nov 2020 9:39
InstName : AG5975C
Operator : TD
Sample : S20K052-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 12 09:58:30 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



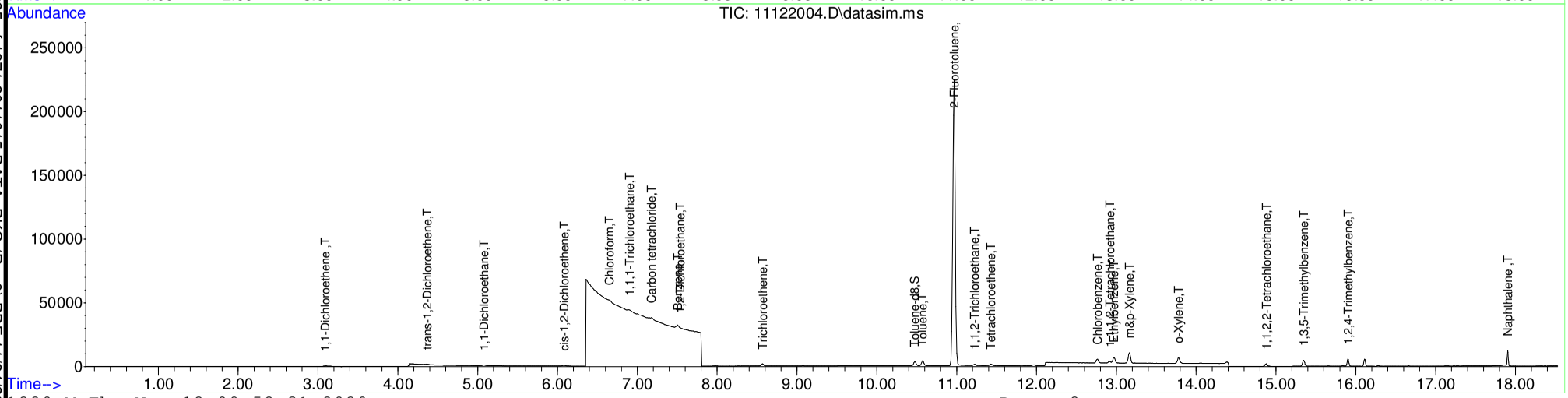
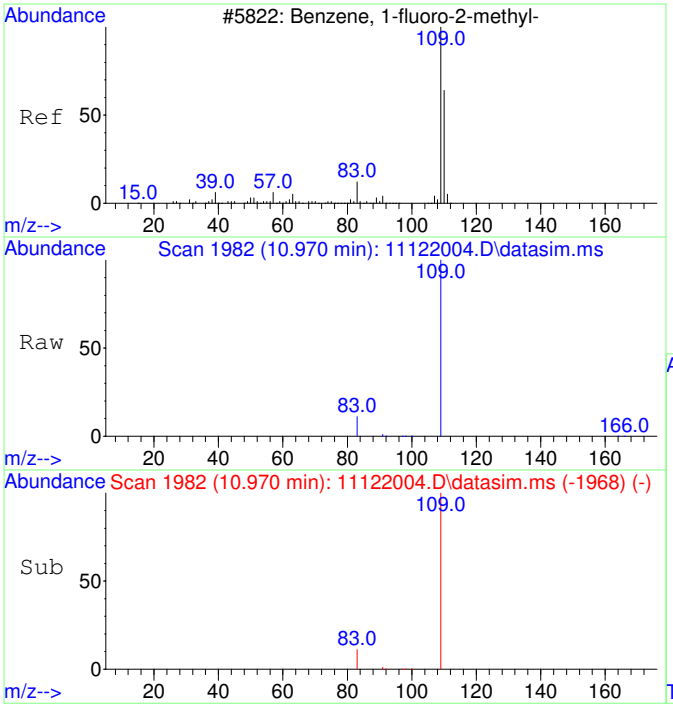


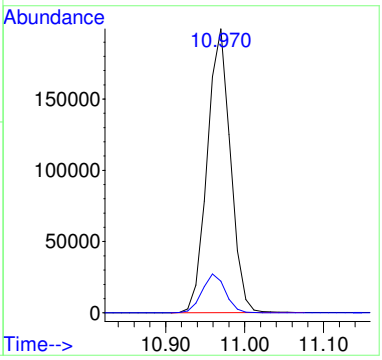
Table of Contents

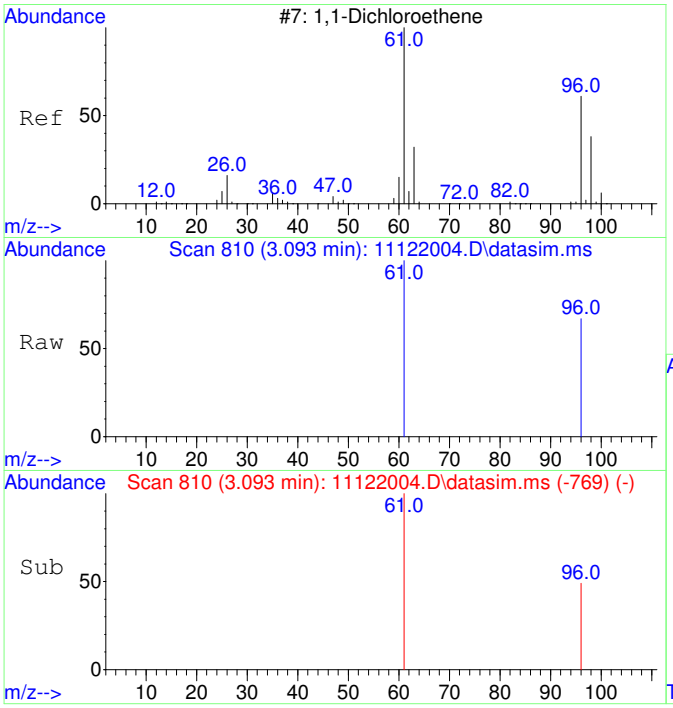


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:109 Resp: 406587

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

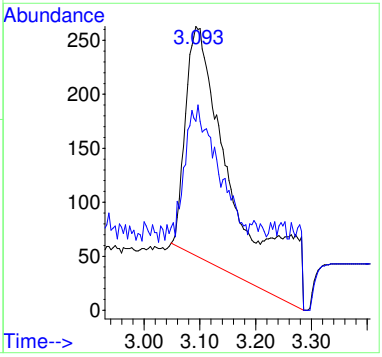




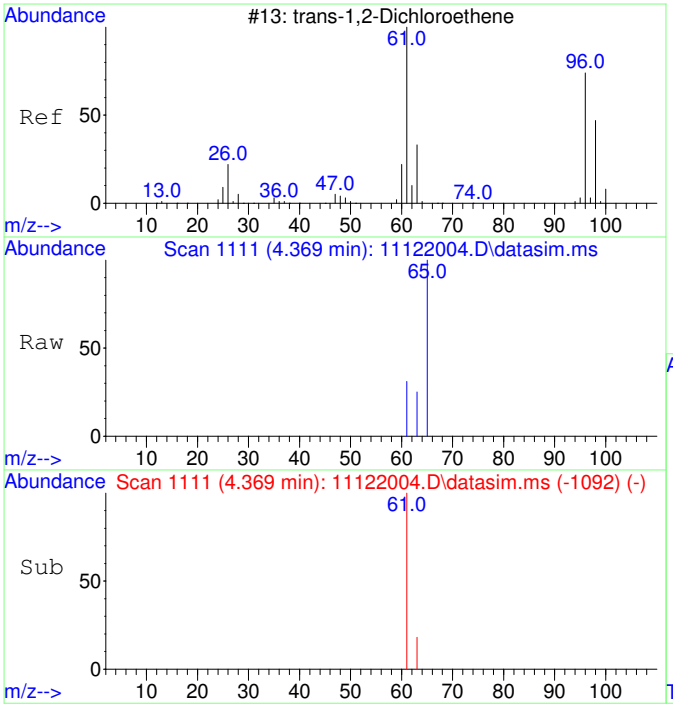
#2
1,1-Dichloroethene
Concen: 76.38 ug/L
RT: 3.093 min Scan# 810
Delta R.T. 0.003 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 1240

Ion	Ratio	Lower	Upper
61	100		
96	26.2	37.2	97.2#



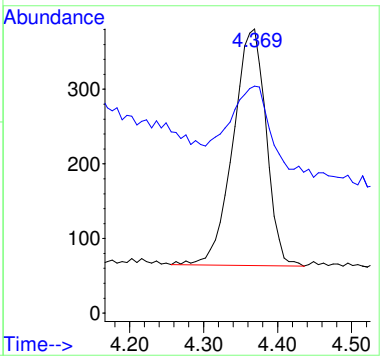
Before MI:
IMPROPER
BASELINE

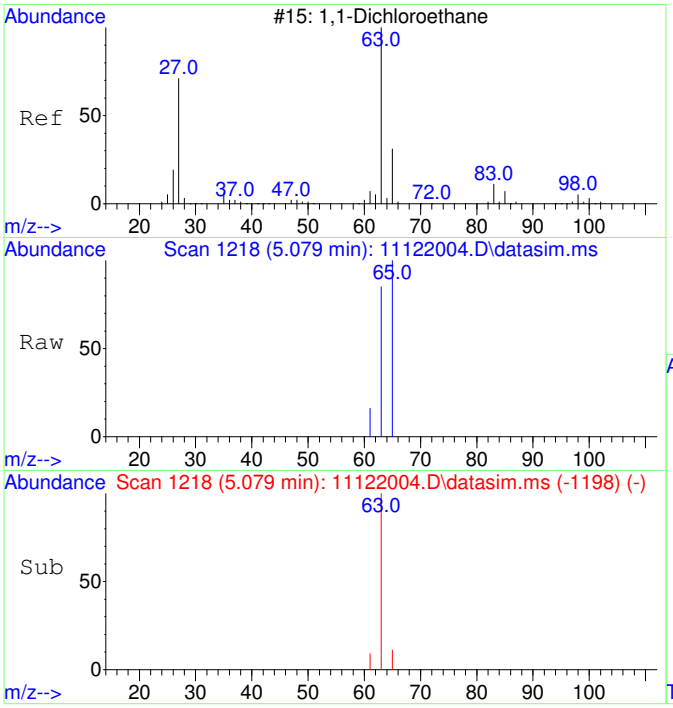


#3
trans-1,2-Dichloroethene
Concen: 52.40 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. -0.027 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 983

Ion	Ratio	Lower	Upper
61	100		
63	51.7	2.4	62.4

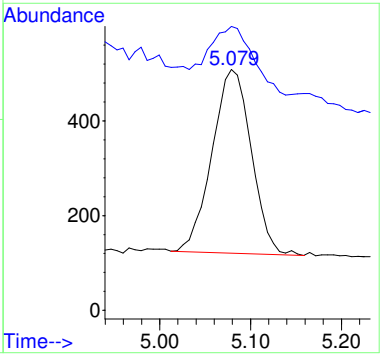


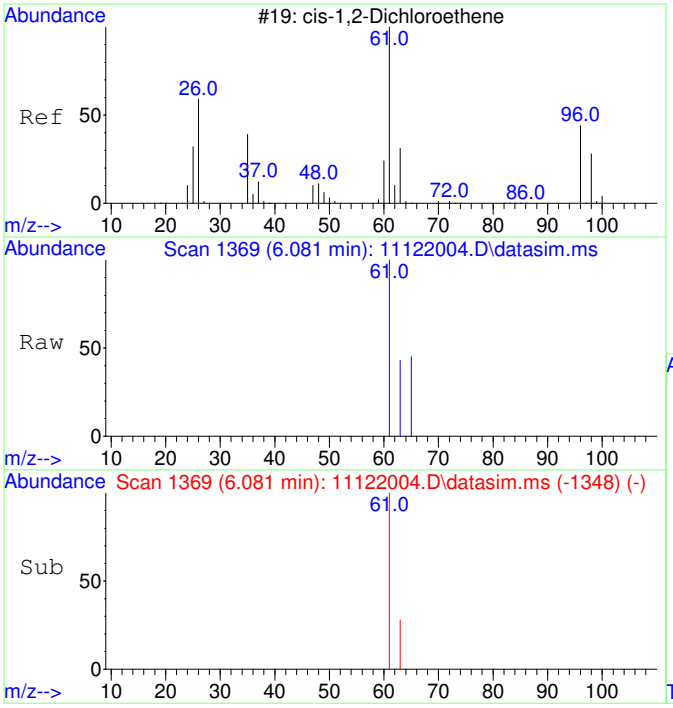


#4
1,1-Dichloroethane
Concen: 49.85 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 63 Resp: 1164

Ion	Ratio	Lower	Upper
63	100		
65	50.0	1.8	61.8

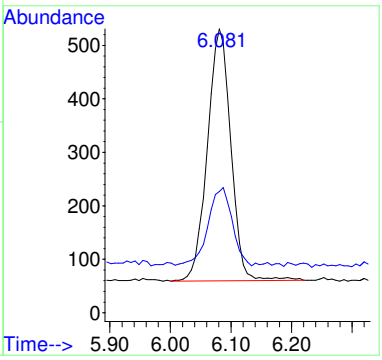


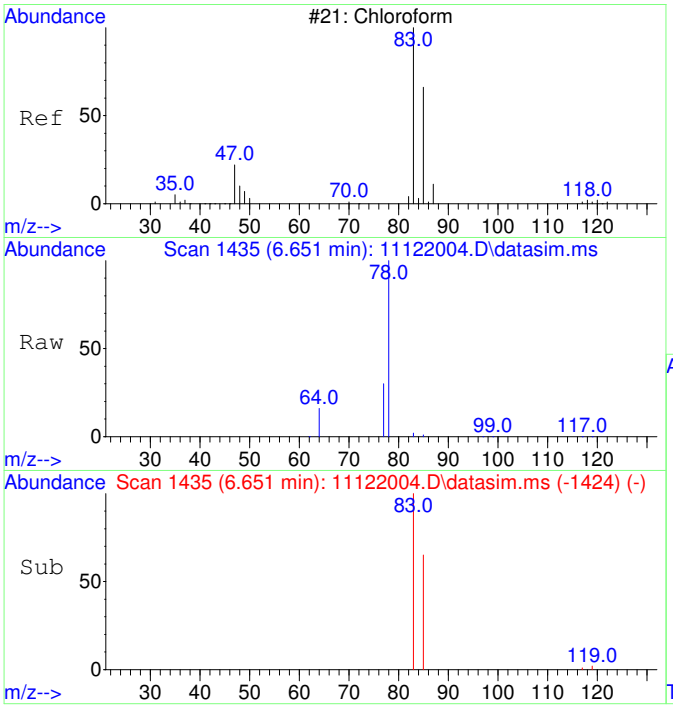


#5
cis-1,2-Dichloroethene
Concen: 51.49 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 1269

Ion	Ratio	Lower	Upper
61	100		
63	31.6	2.5	62.5

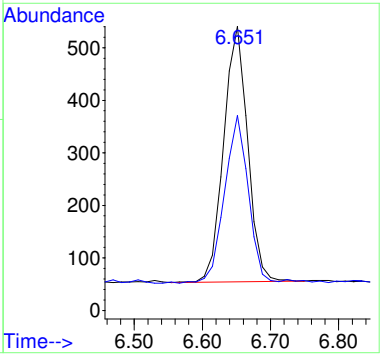


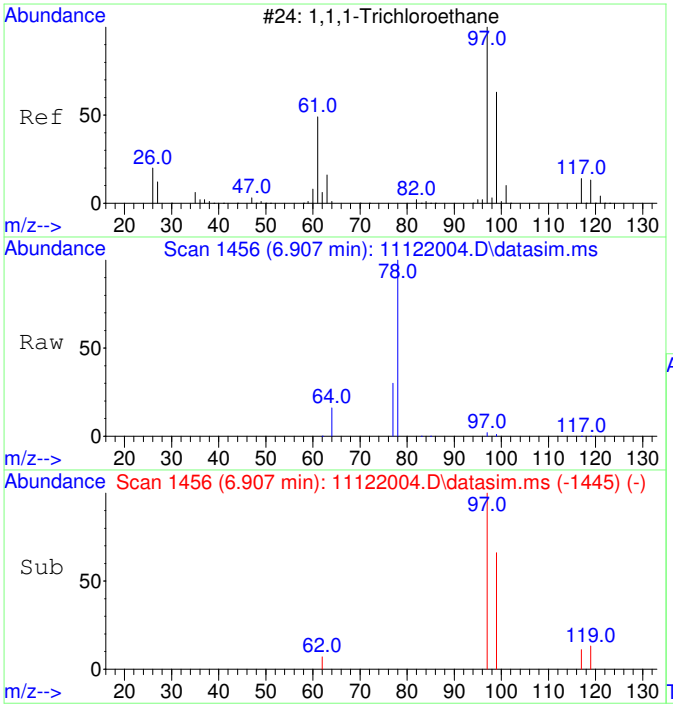


#6
Chloroform
Concen: 47.05 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 1187

Ion	Ratio	Lower	Upper
83	100		
85	64.0	35.1	95.1

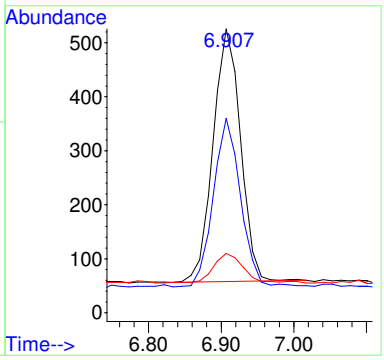


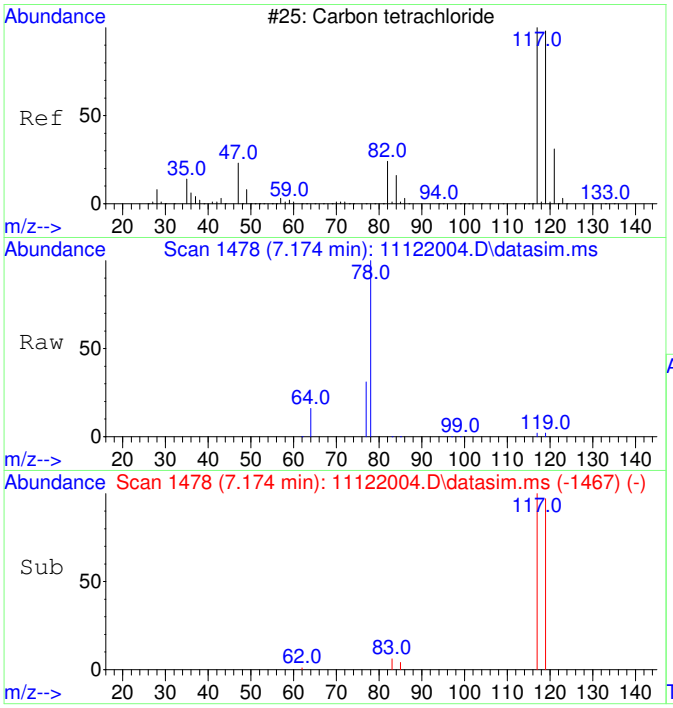


#7
1,1,1-Trichloroethane
Concen: 44.93 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 1231

Ion	Ratio	Lower	Upper
97	100		
99	65.2	34.6	94.6
117	13.0	0.0	43.2

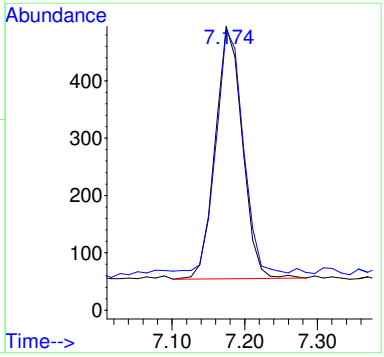


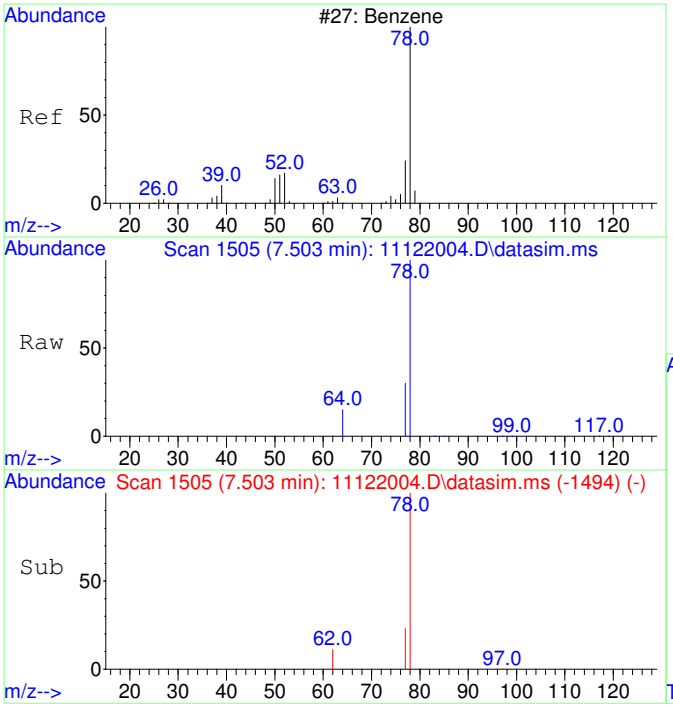


#8
Carbon tetrachloride
Concen: 44.17 ug/L
RT: 7.174 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:117 Resp: 1139

Ion	Ratio	Lower	Upper
117	100		
119	94.6	66.4	126.4

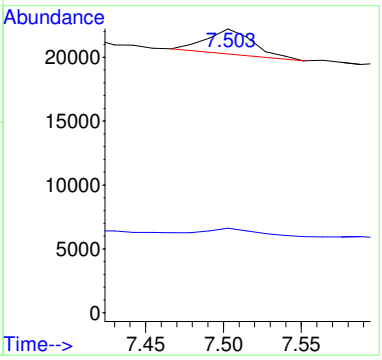


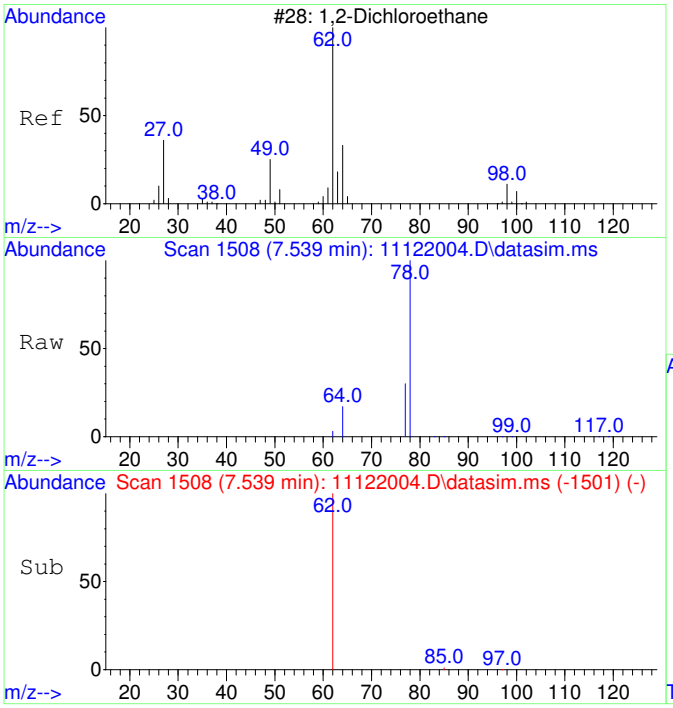


#9
Benzene
Concen: 54.65 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 78 Resp: 3775

Ion	Ratio	Lower	Upper
78	100		
77	68.8	0.0	53.2#

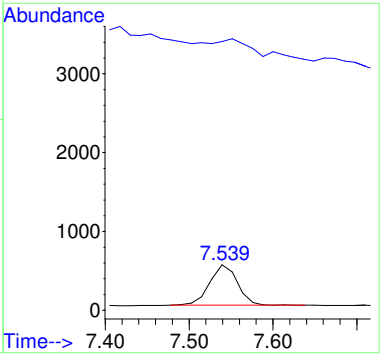


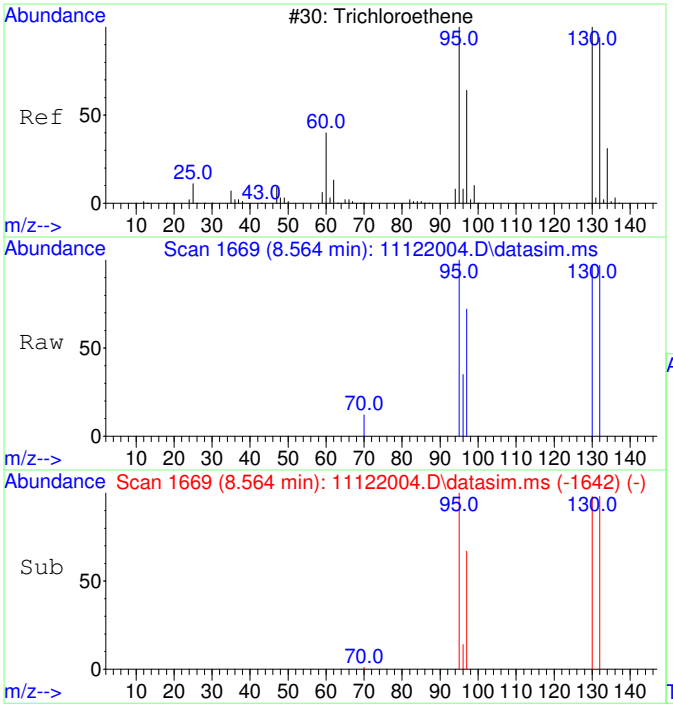


#10
1,2-Dichloroethane
Concen: 47.61 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 62 Resp: 1174

Ion	Ratio	Lower	Upper
62	100		
64	76.2	2.3	62.3#

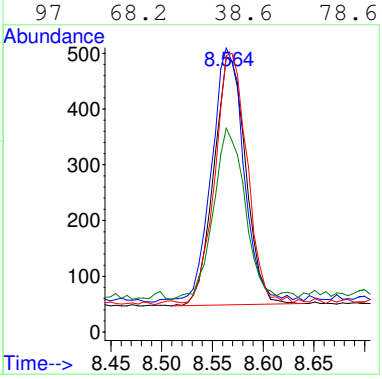


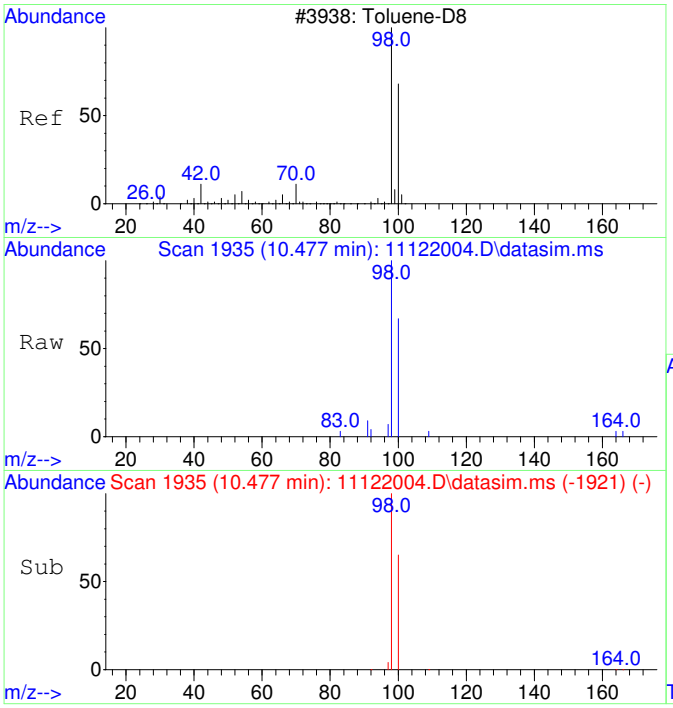


#11
Trichloroethene
Concen: 46.73 ug/L
RT: 8.564 min Scan# 1669
Delta R.T. -0.006 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:130 Resp: 972

Ion	Ratio	Lower	Upper
130	100		
95	103.4	60.7	120.7
132	100.2	76.0	116.0
97	68.2	38.6	78.6

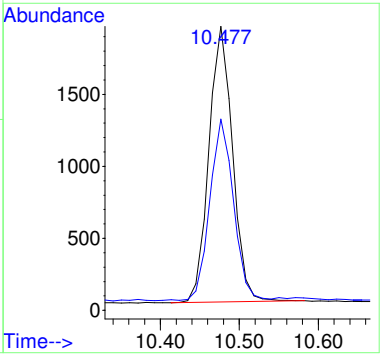


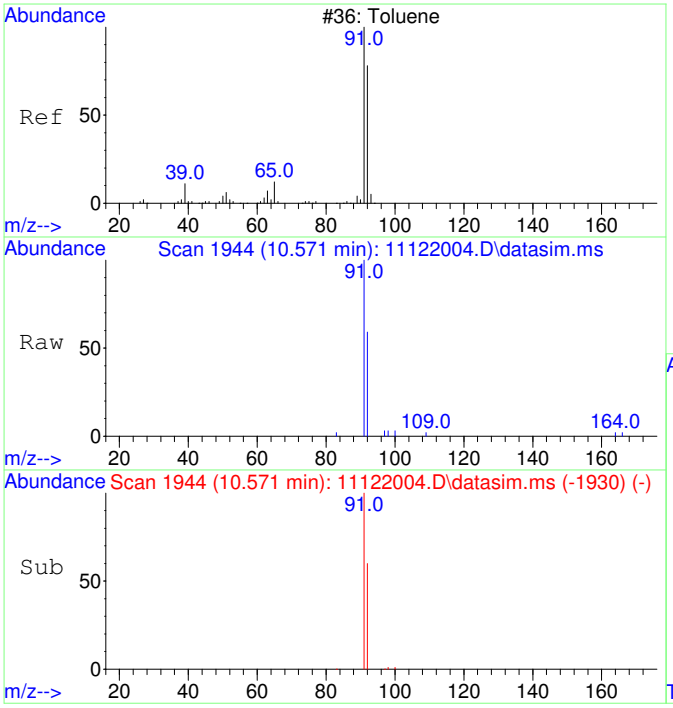


#12
Toluene-d8
Concen: 50.09 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 98 Resp: 3987

Ion	Ratio	Lower	Upper
98	100		
100	64.7	37.1	97.1

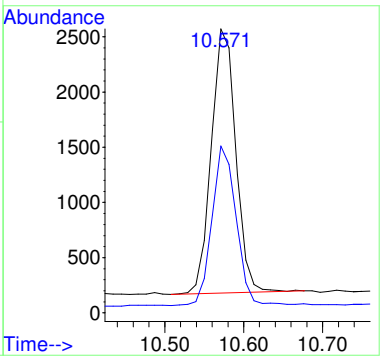


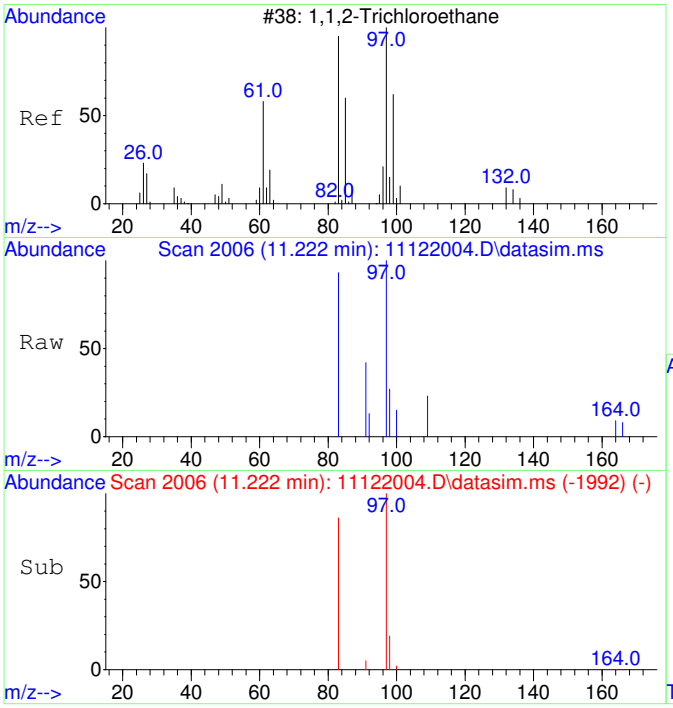


#13
Toluene
Concen: 50.78 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5153

Ion	Ratio	Lower	Upper
91	100		
92	58.8	29.9	89.9

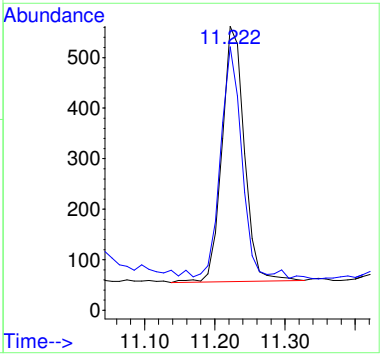


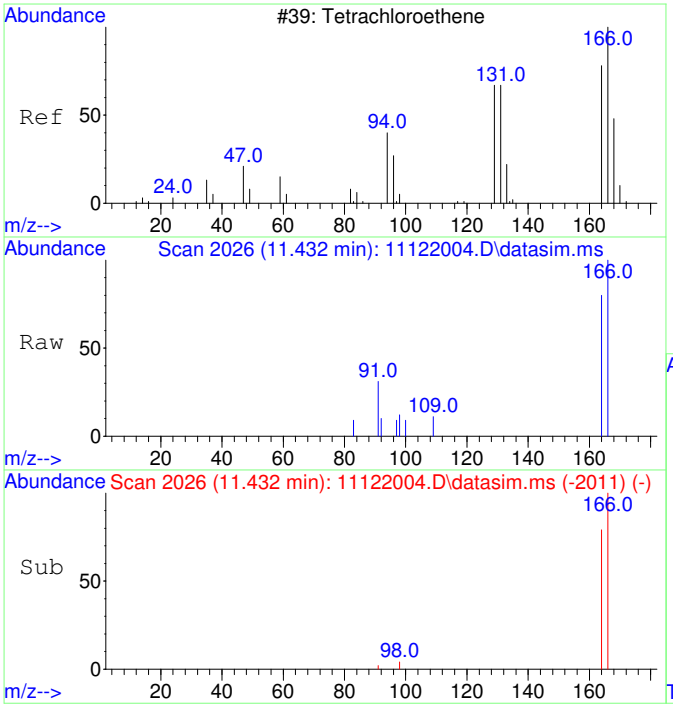


#14
1,1,2-Trichloroethane
Concen: 50.61 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 1119

Ion	Ratio	Lower	Upper
97	100		
83	84.0	51.2	111.2

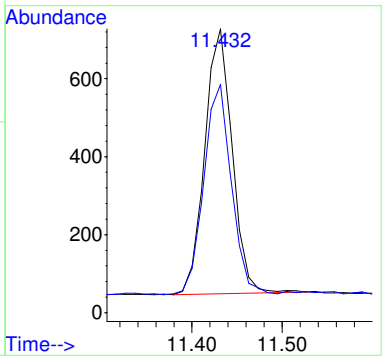


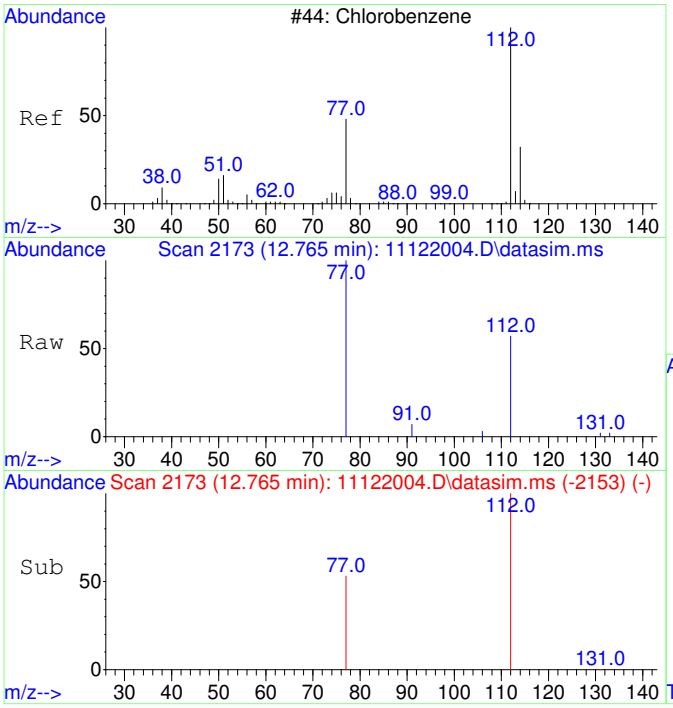


#15
Tetrachloroethene
Concen: 48.90 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:166 Resp: 1436

Ion	Ratio	Lower	Upper
166	100		
164	79.4	47.8	107.8

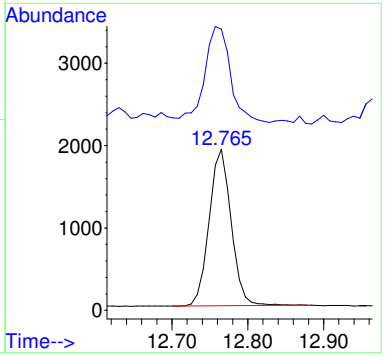


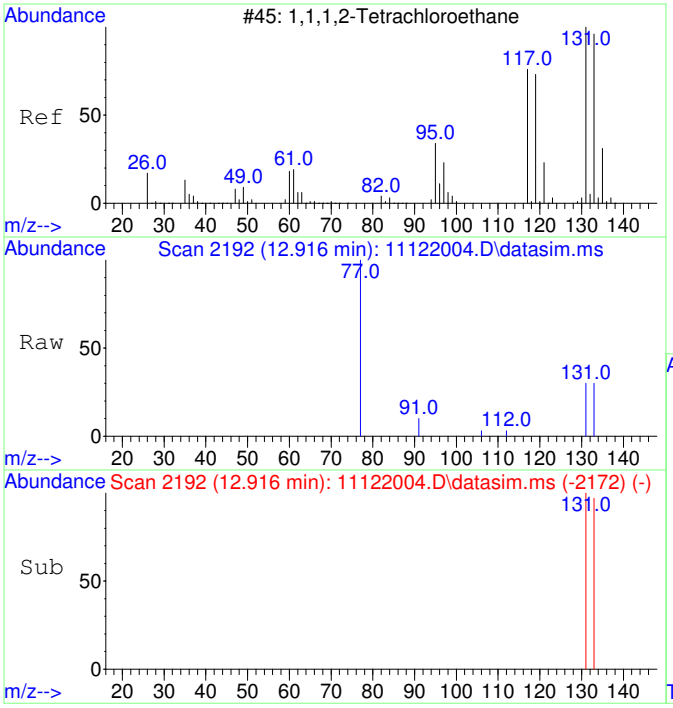


#16
Chlorobenzene
Concen: 52.70 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:112 Resp: 3829

Ion	Ratio	Lower	Upper
112	100		
77	71.3	23.6	83.6

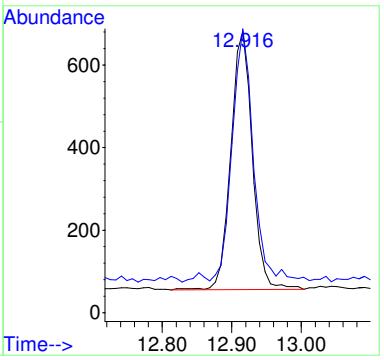


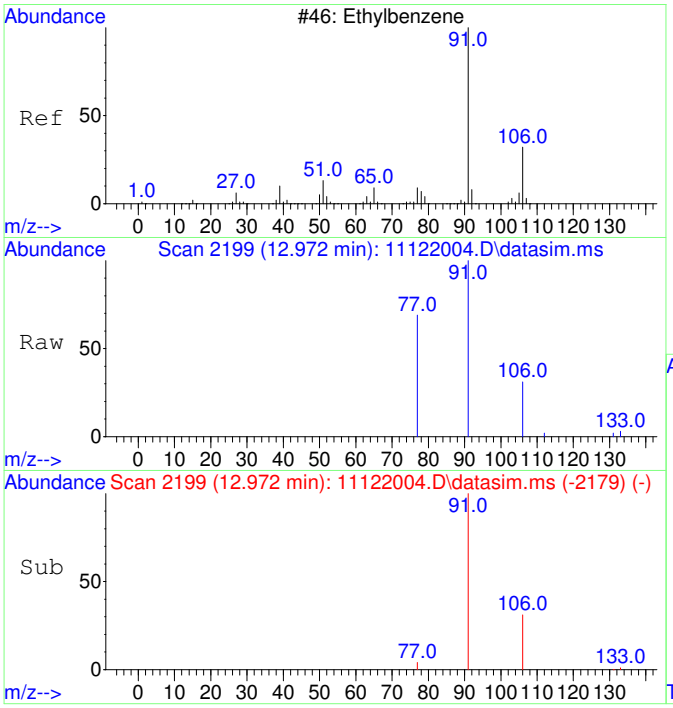


#17
1,1,1,2-Tetrachloroethane
Concen: 51.58 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:131 Resp: 1343

Ion	Ratio	Lower	Upper
131	100		
133	95.2	66.3	126.3

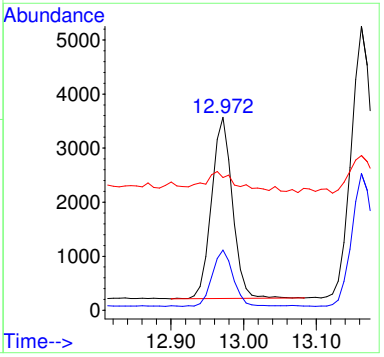


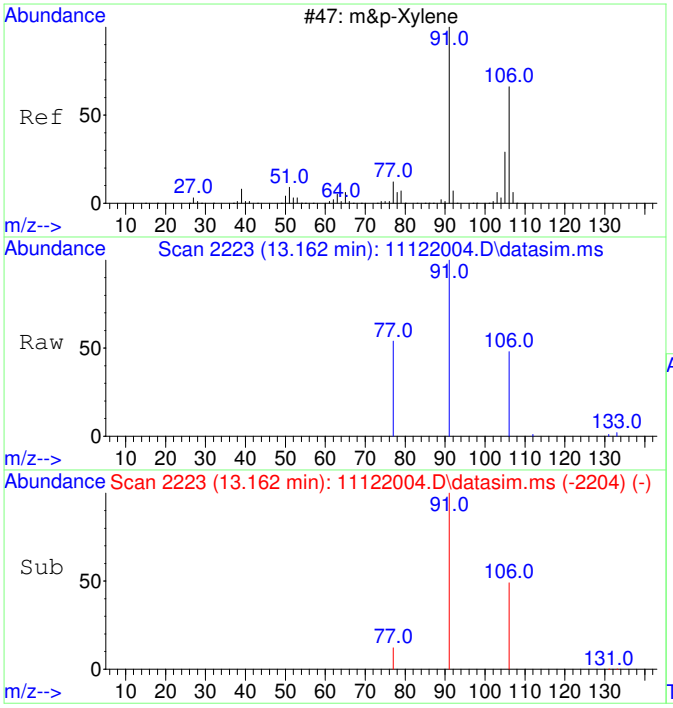


#18
Ethylbenzene
Concen: 54.19 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 6693

Ion	Ratio	Lower	Upper
91	100		
106	31.5	3.0	63.0
77	14.0	0.0	38.2

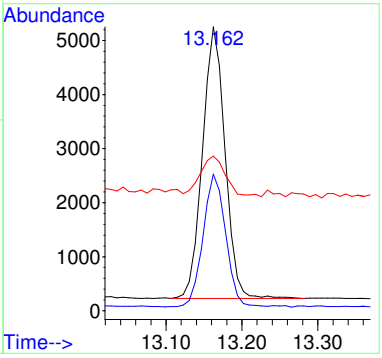


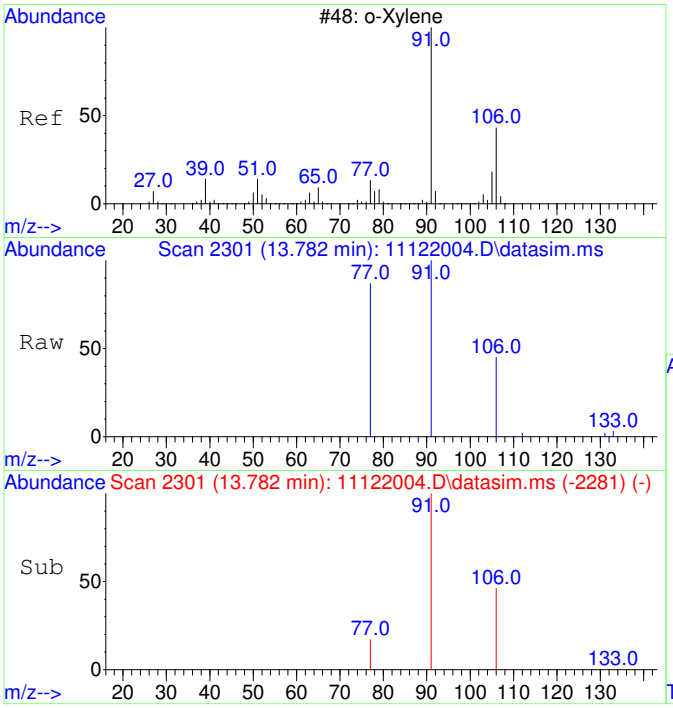


#19
m&p-Xylene
Concen: 107.56 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 10383

Ion	Ratio	Lower	Upper
91	100		
106	48.3	22.2	82.2
77	14.9	0.0	42.4

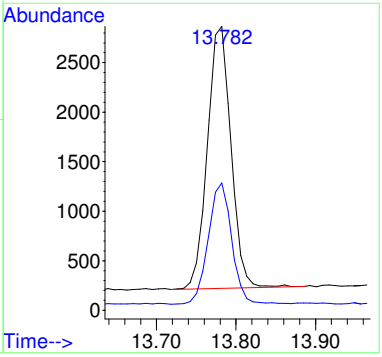


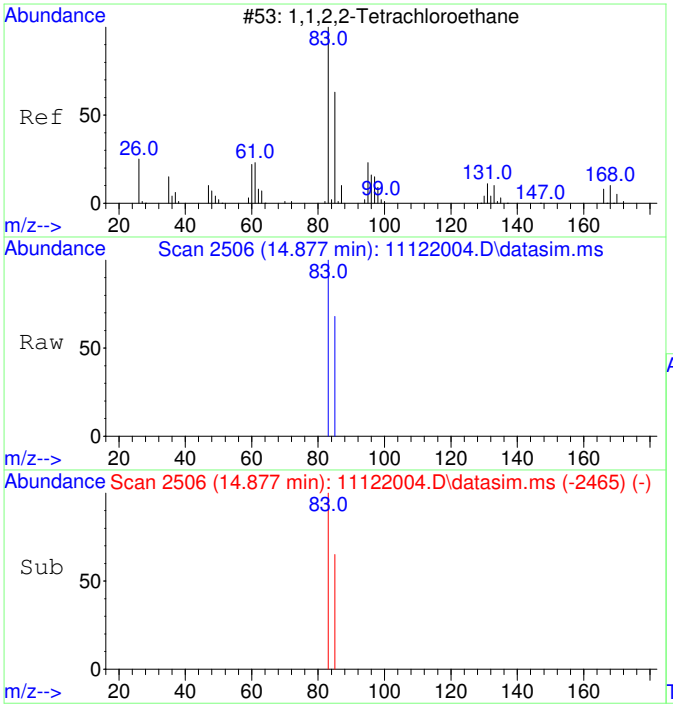


#20
o-Xylene
Concen: 52.85 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5451

Ion	Ratio	Lower	Upper
91	100		
106	45.7	19.2	79.2

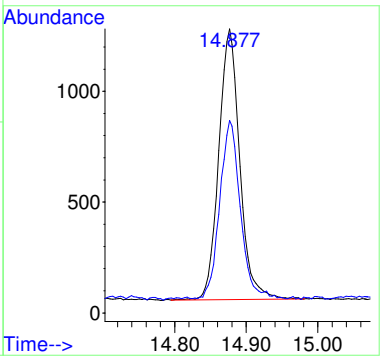


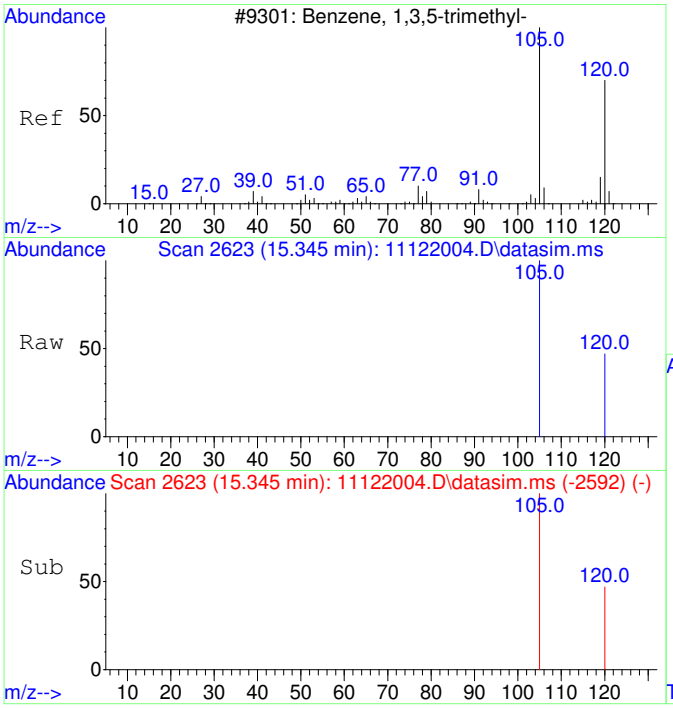


#21
1,1,2,2-Tetrachloroethane
Concen: 54.48 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. 0.004 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 2490

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.8	94.8

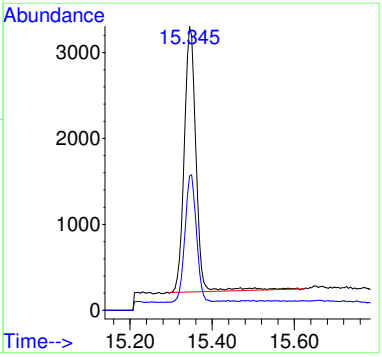


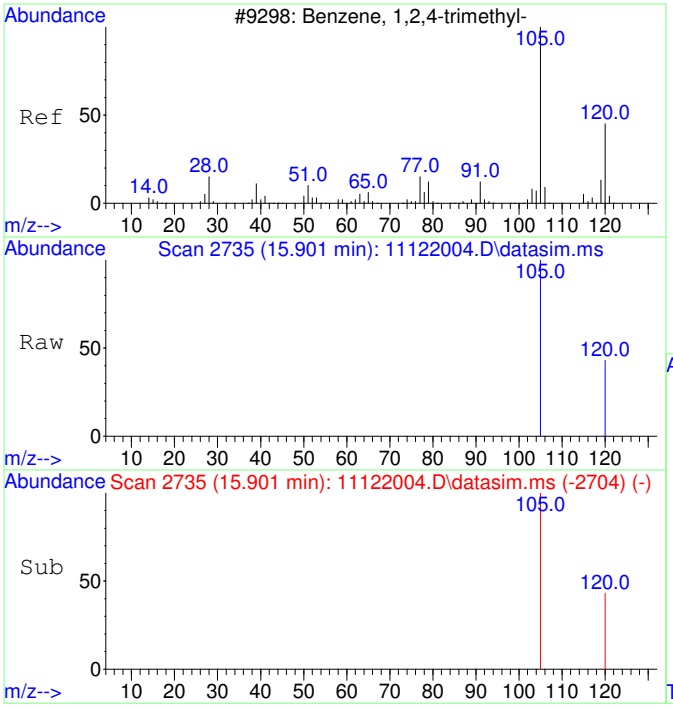


#22
1,3,5-Trimethylbenzene
Concen: 55.86 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:105 Resp: 6132

Ion	Ratio	Lower	Upper
105	100		
120	46.0	21.1	81.1

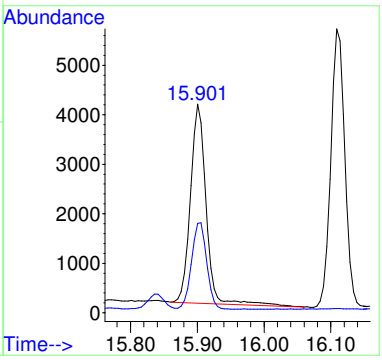


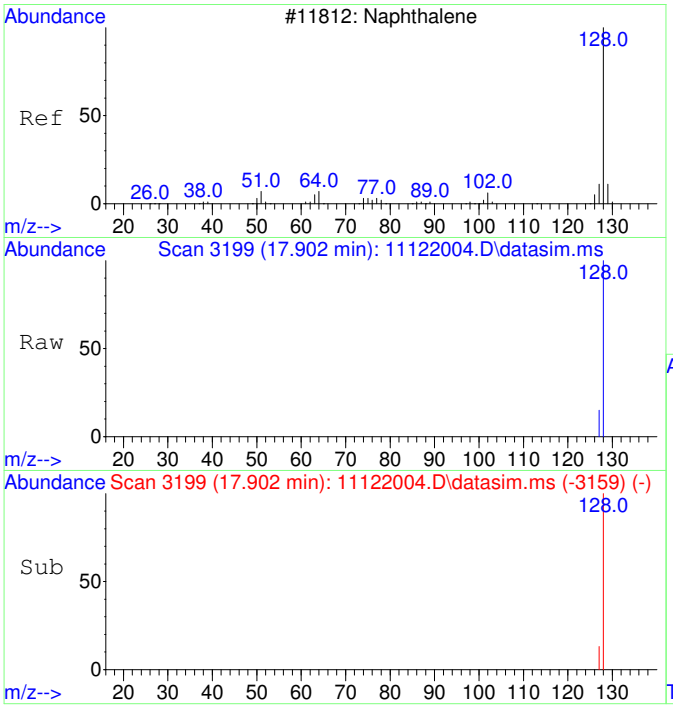


#23
1,2,4-Trimethylbenzene
Concen: 57.28 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:105 Resp: 6531

Ion	Ratio	Lower	Upper
105	100		
120	41.4	17.2	77.2

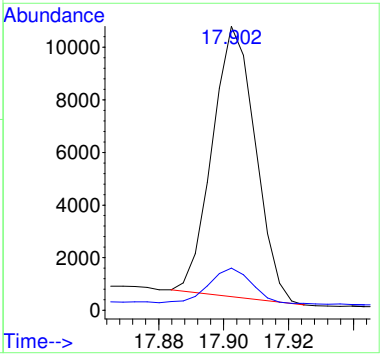


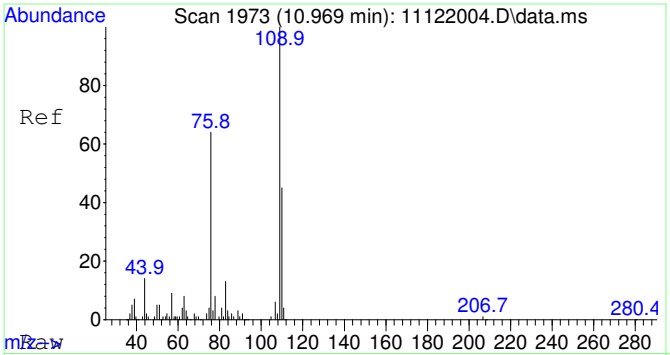


#24
Naphthalene
Concen: 52.44 ug/L
RT: 17.902 min Scan# 3199
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:128 Resp: 9451

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.5

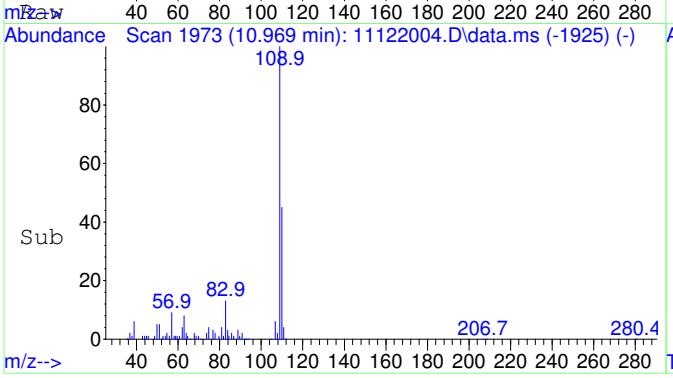


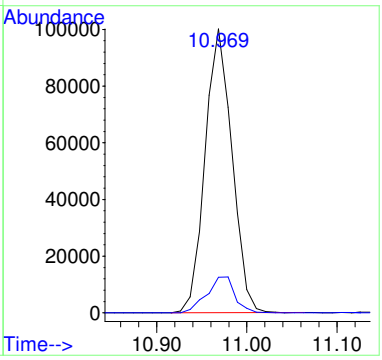


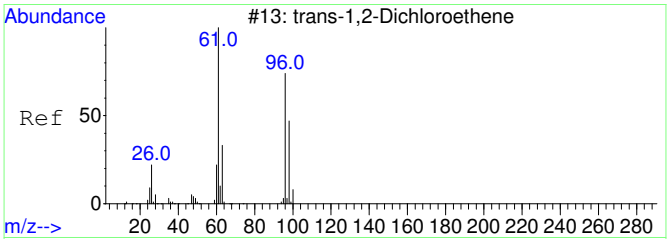
#25
2-Fluorotoluene SCAN
Concen: 5237.78 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:109 Resp: 207598

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.8



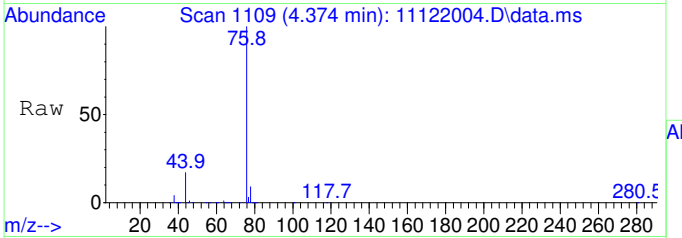


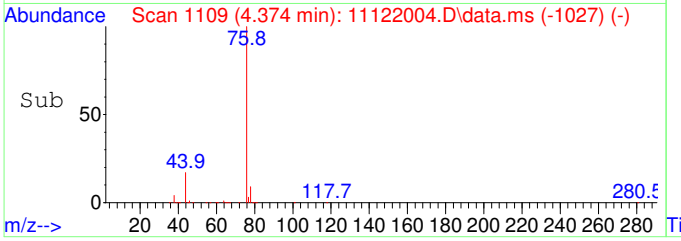


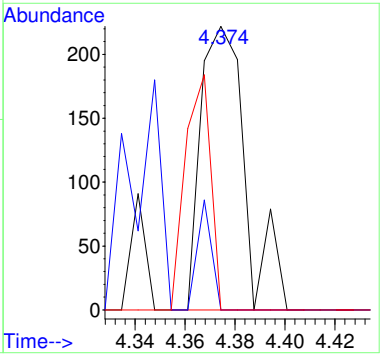
#27
trans-1,2-Dichloroethene SCAN
Concen: 26.50 ug/L
RT: 4.374 min Scan# 1109
Delta R.T. -0.027 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

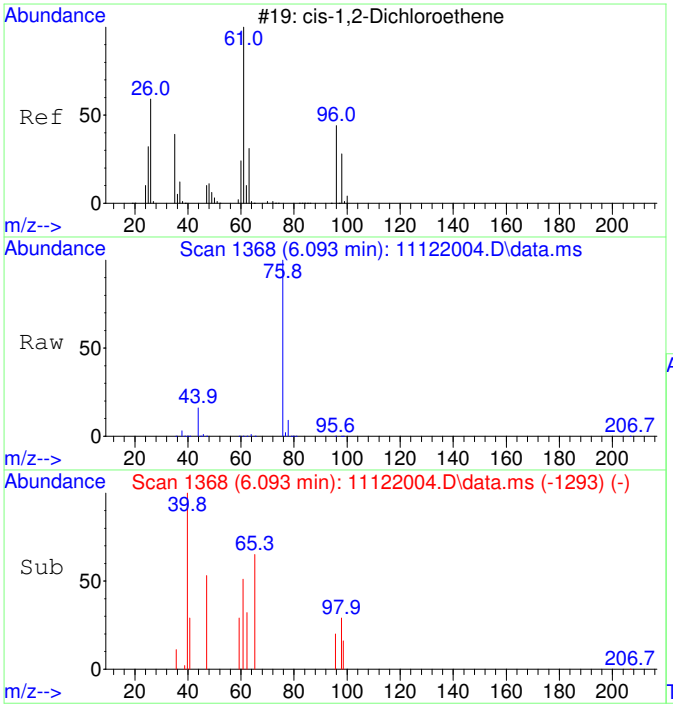
Tgt Ion: 61 Resp: 276

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	47.1	20.5	80.5





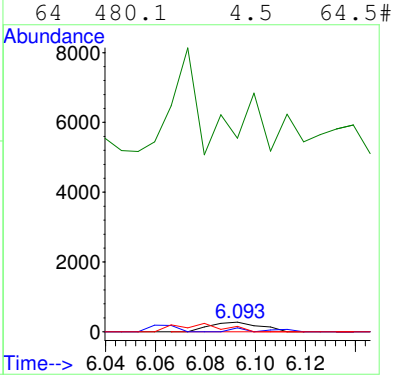


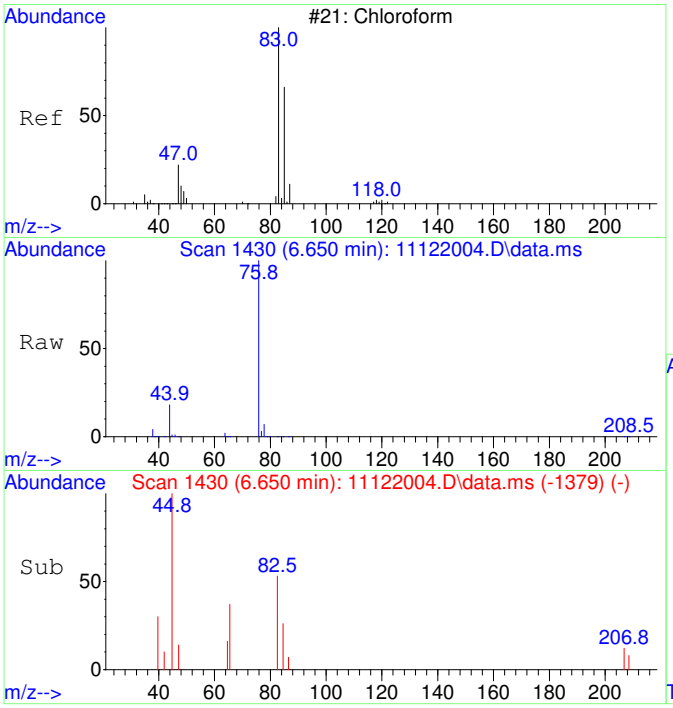


#29
cis-1,2-Dichloroethene SCAN
Concen: 29.89 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 386

Ion	Ratio	Lower	Upper
61	100		
96	23.8	39.9	99.9#
98	80.8	13.5	73.5#
64	480.1	4.5	64.5#

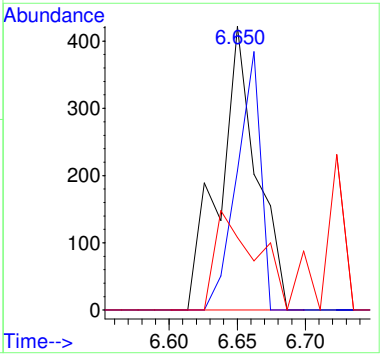


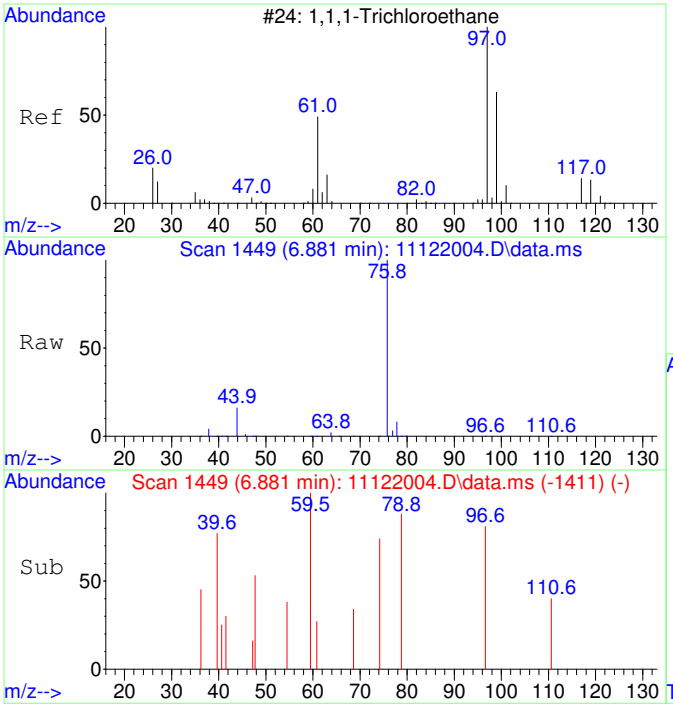


#30
Chloroform SCAN
Concen: 57.32 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 803

Ion	Ratio	Lower	Upper
83	100		
85	58.3	34.6	94.6
47	0.0	0.0	53.4

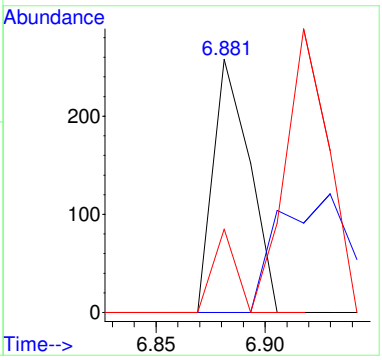


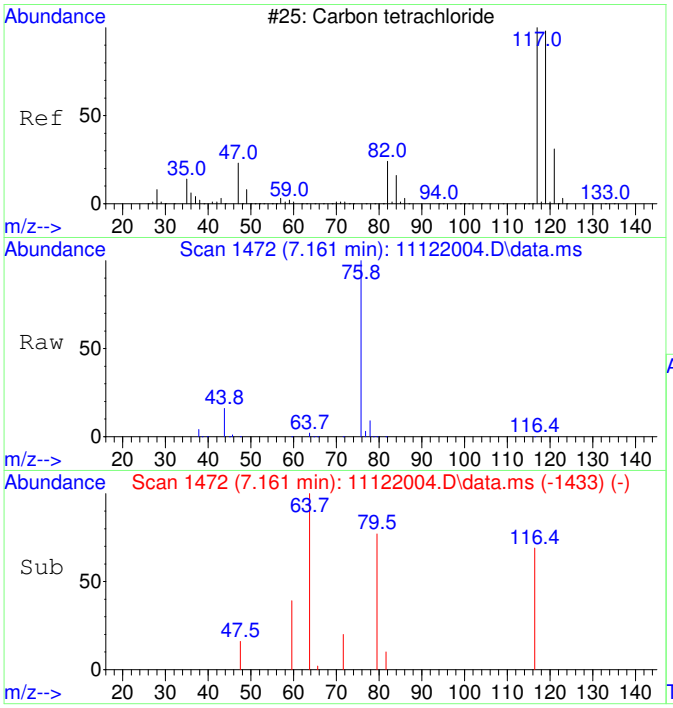


#31
1,1,1-Trichloroethane SCAN
Concen: 23.42 ug/L
RT: 6.881 min Scan# 1449
Delta R.T. -0.037 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 299

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

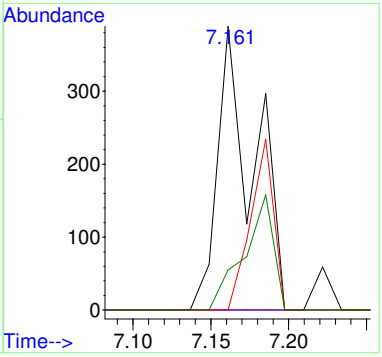


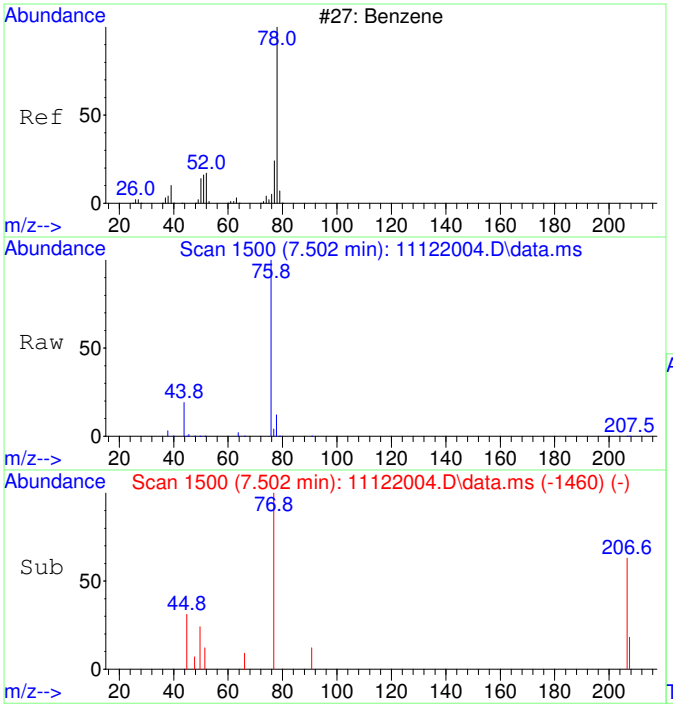


#32
Carbon tetrachloride SCAN
Concen: 47.54 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.024 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:117 Resp: 633

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

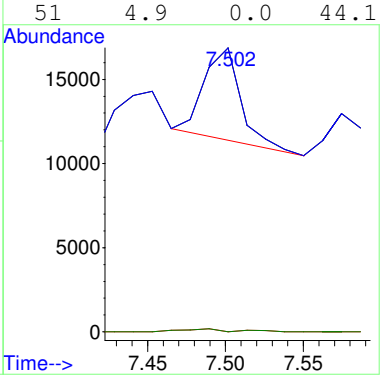


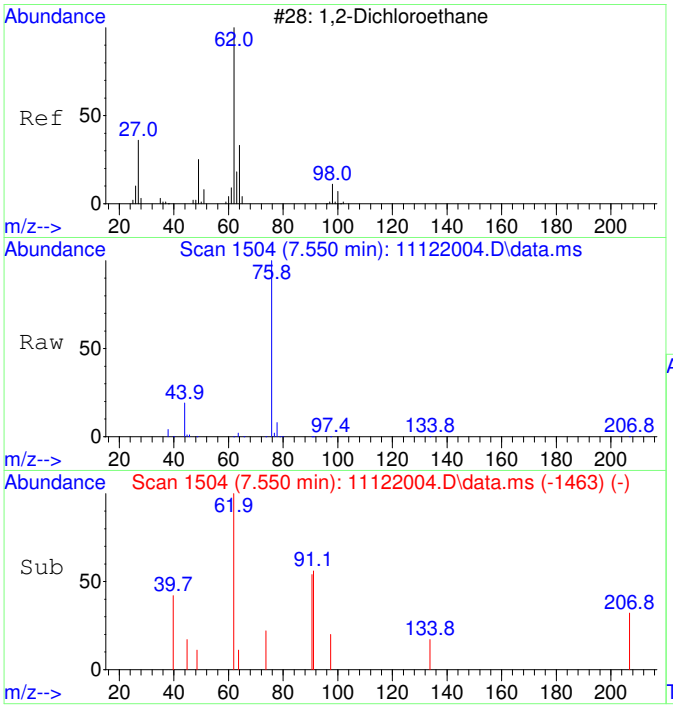


#33
Benzene SCAN
Concen: 236.46 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 78 Resp: 8311

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	4.9	0.0	47.9
51	4.9	0.0	44.1

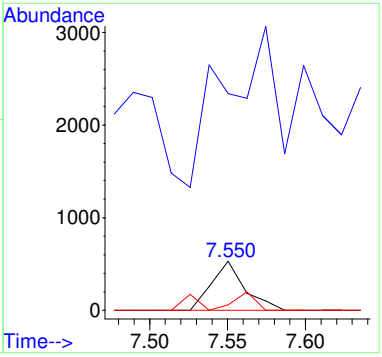


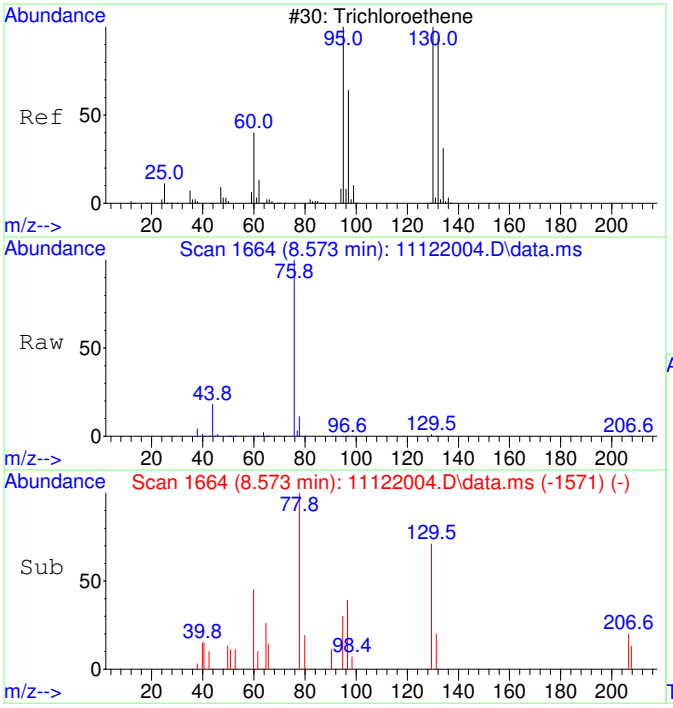


#34
1,2-Dichloroethane SCAN
Concen: 60.25 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 62 Resp: 782

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

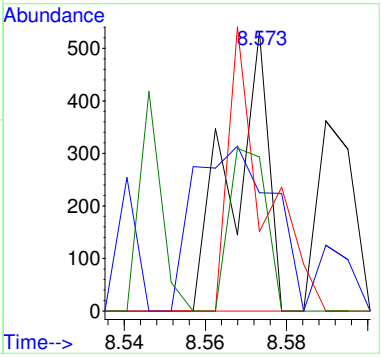


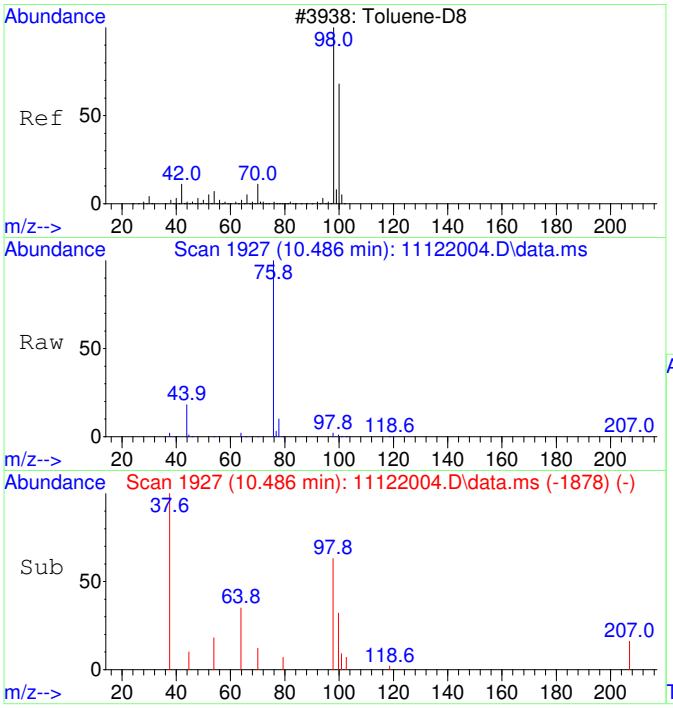


#35
Trichloroethene SCAN
Concen: 34.68 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.005 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:130 Resp: 335

Ion	Ratio	Lower	Upper
130	100		
95	149.6	60.5	120.5#
132	99.1	59.6	119.6
97	58.8	28.2	88.2

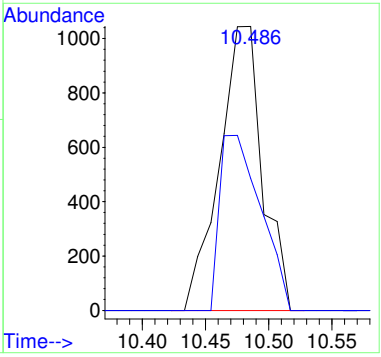


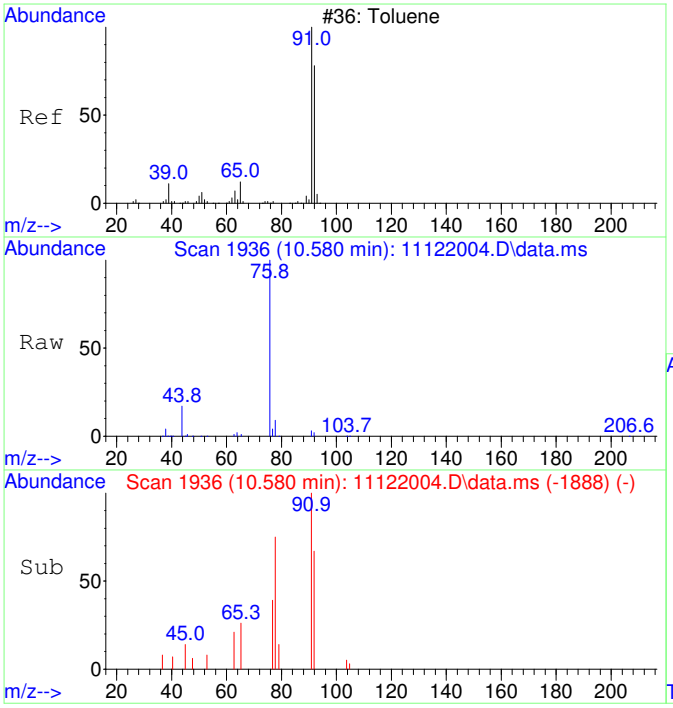


#36
Toluene-d8 SCAN
Concen: 64.03 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 98 Resp: 2482

Ion	Ratio	Lower	Upper
98	100		
100	58.9	40.0	100.0

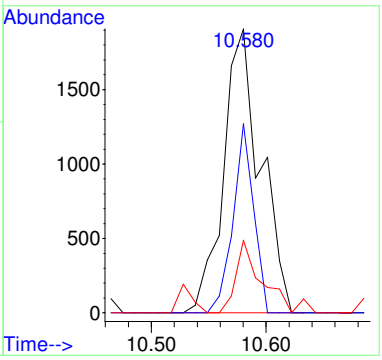


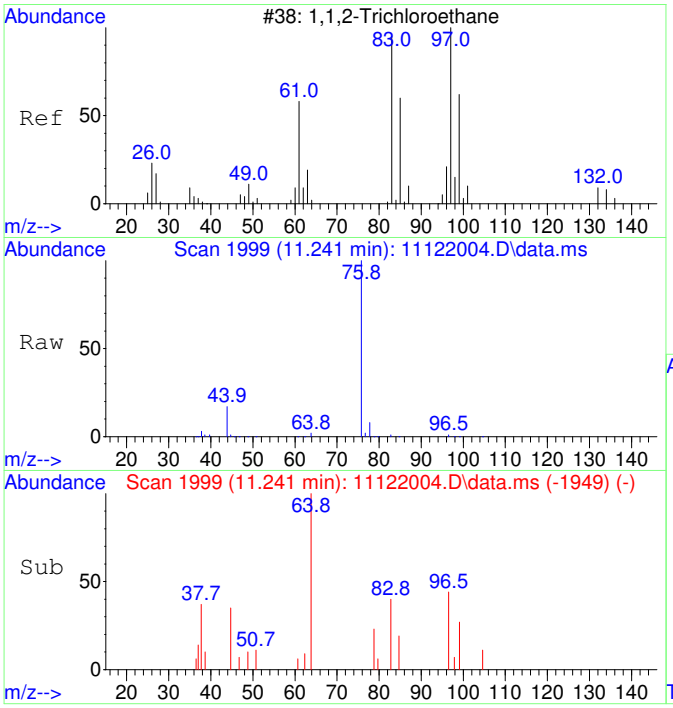


#37
Toluene SCAN
Concen: 86.20 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 4279

Ion	Ratio	Lower	Upper
91	100		
92	36.8	28.3	88.3
65	18.6	0.0	41.0

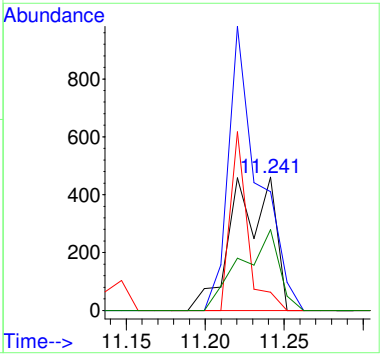


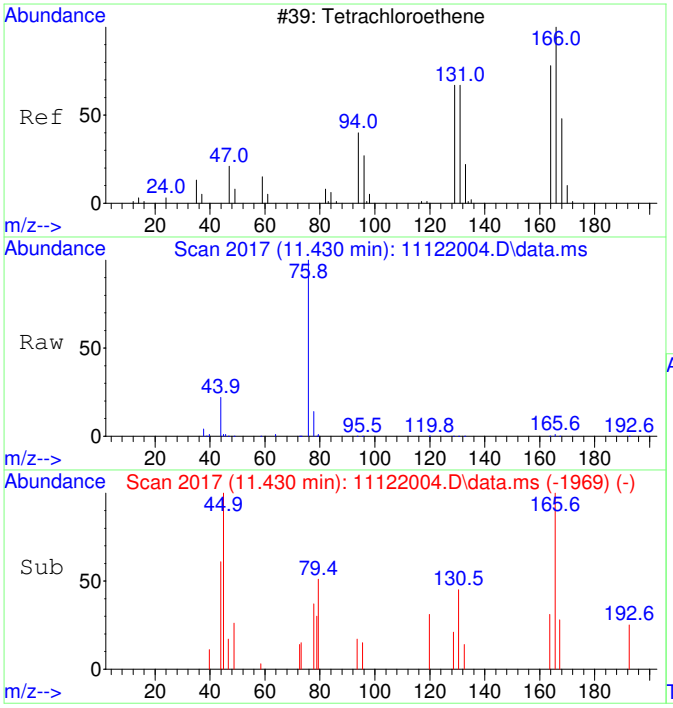


#38
1,1,2-Trichloroethane SCAN
Concen: 74.76 ug/L
RT: 11.241 min Scan# 1999
Delta R.T. 0.021 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 833

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	56.8	36.7	96.7

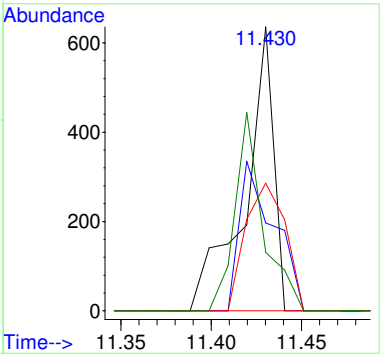


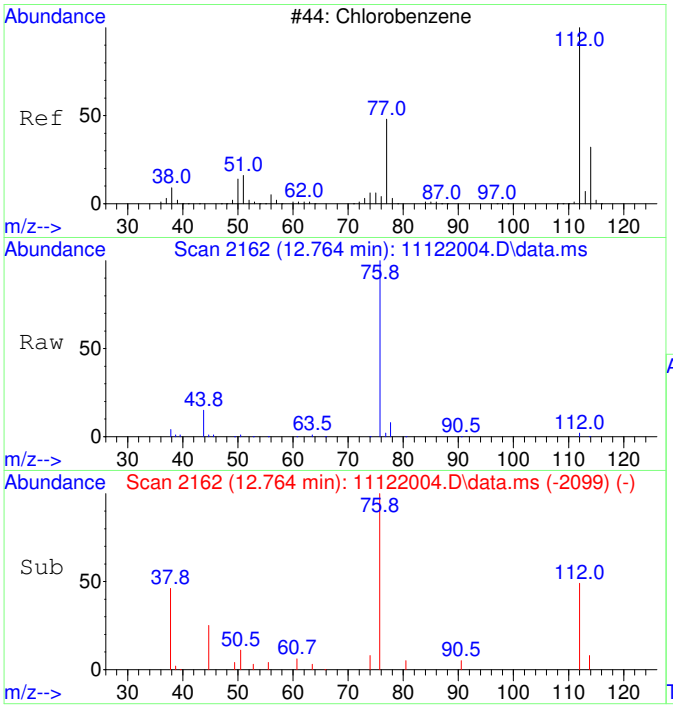


#39
Tetrachloroethene SCAN
Concen: 59.03 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:166 Resp: 704

Ion	Ratio	Lower	Upper
166	100		
164	63.6	50.9	110.9
131	62.2	38.7	98.7
129	68.6	41.8	101.8

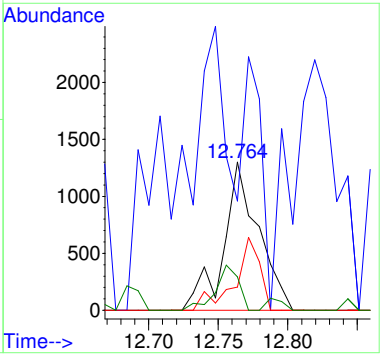


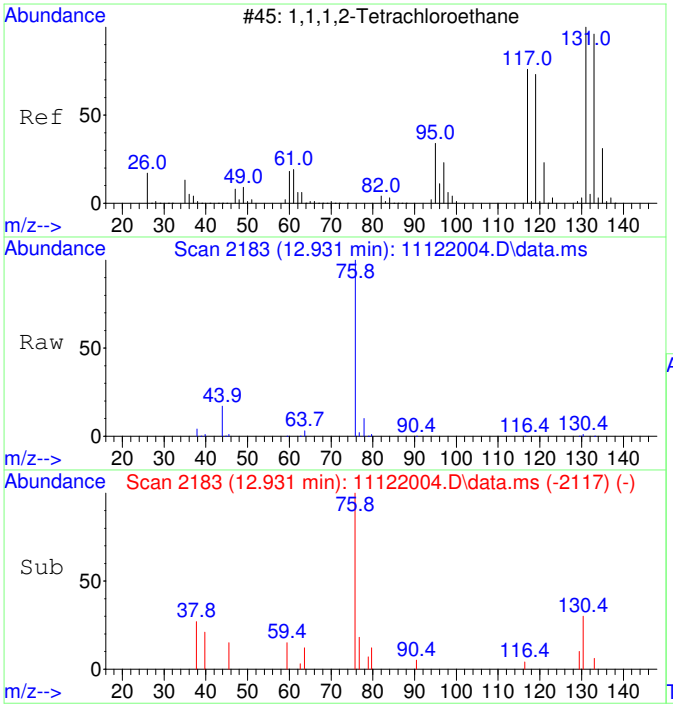


#40
Chlorobenzene SCAN
Concen: 66.80 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:112 Resp: 2266

Ion	Ratio	Lower	Upper
112	100		
77	65.9	28.2	88.2
114	0.0	2.3	62.3#
51	20.1	0.0	50.1

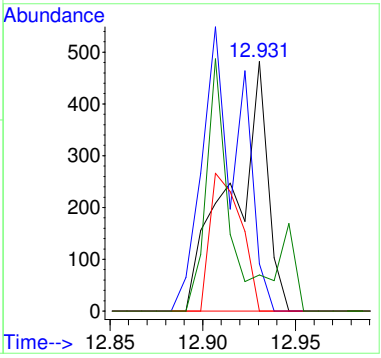


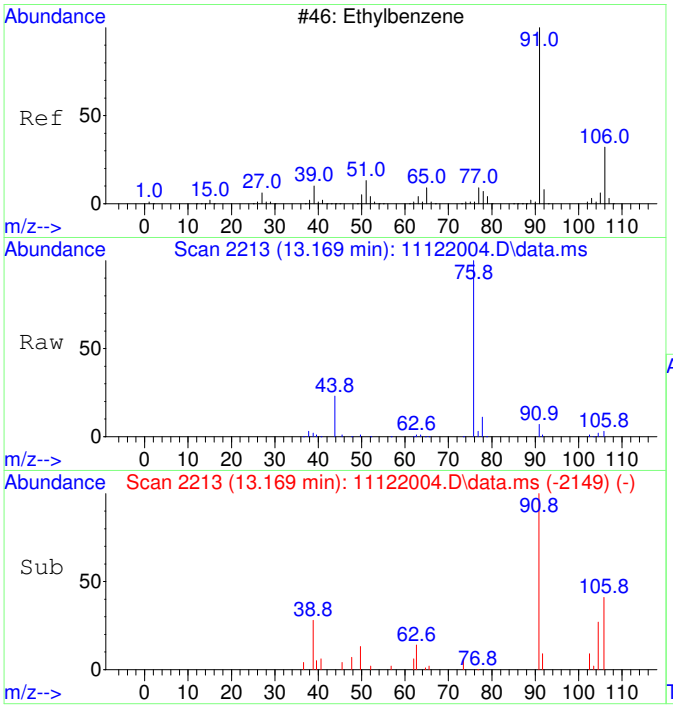


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 51.94 ug/L
RT: 12.931 min Scan# 2183
Delta R.T. 0.024 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:131 Resp: 652

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#

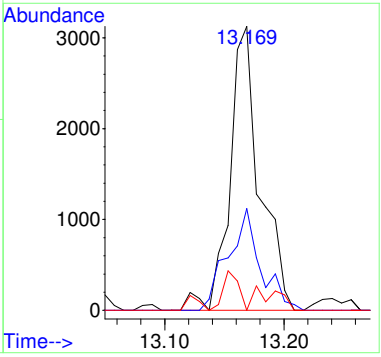


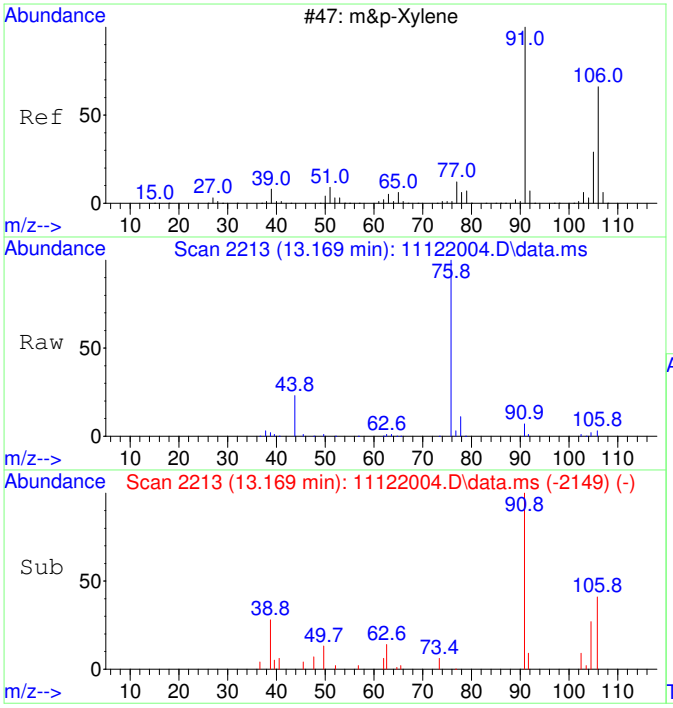


#42
Ethylbenzene SCAN
Concen: 60.75 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5494

Ion	Ratio	Lower	Upper
91	100		
106	38.8	23.1	83.1
51	6.4	0.0	40.1

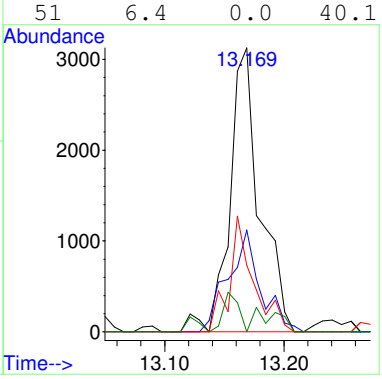


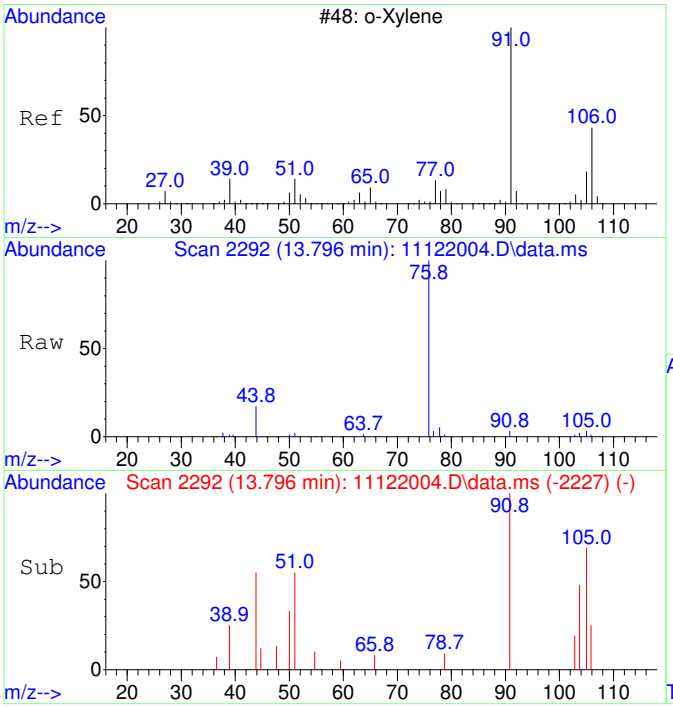


#43
m&p-Xylene SCAN
Concen: 60.75 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5494

Ion	Ratio	Lower	Upper
91	100		
106	38.8	23.1	83.1
105	32.6	0.0	54.7
51	6.4	0.0	40.1

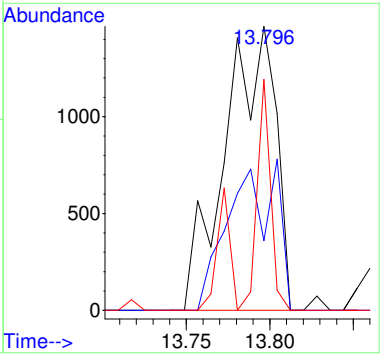


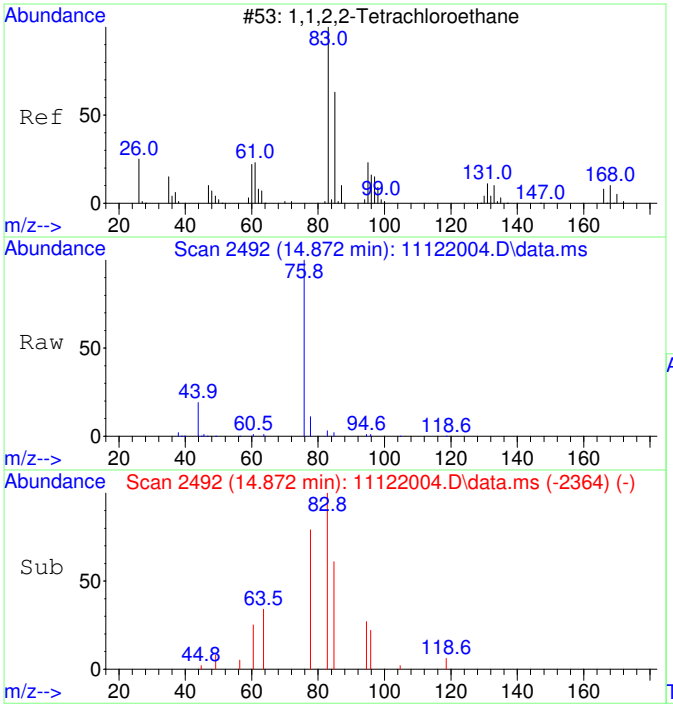


#44
o-Xylene SCAN
Concen: 64.27 ug/L
RT: 13.796 min Scan# 2292
Delta R.T. 0.016 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 3111

Ion	Ratio	Lower	Upper
91	100		
106	48.4	18.0	78.0
105	21.3	0.0	56.6

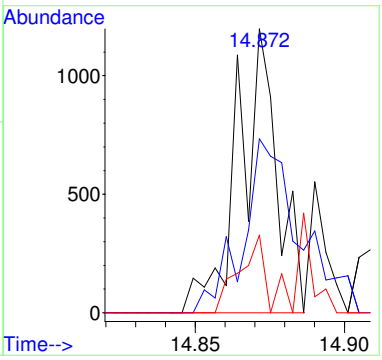


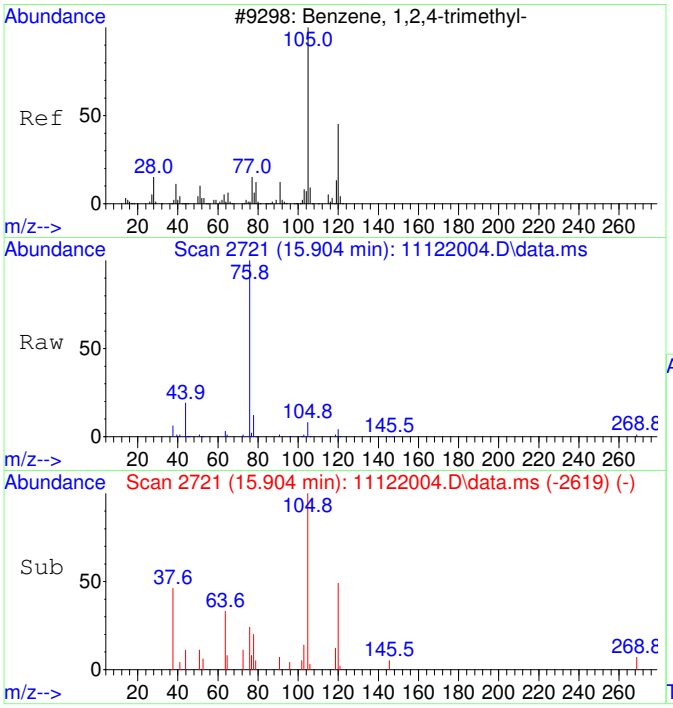


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 46.14 ug/L
RT: 14.872 min Scan# 2492
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 1089

Ion	Ratio	Lower	Upper
83	100		
85	88.7	35.9	95.9
95	17.1	0.0	47.4

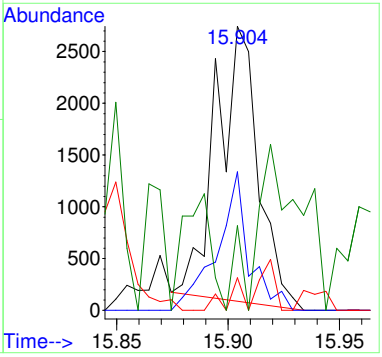


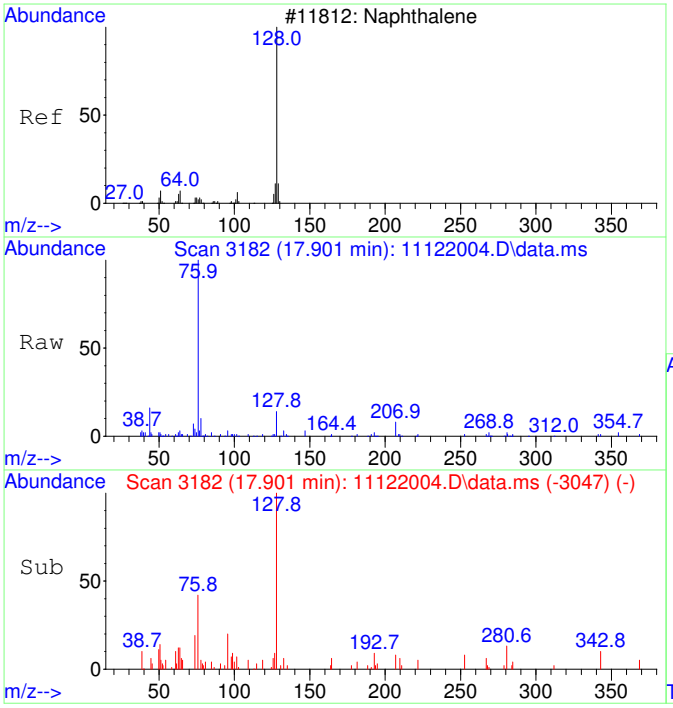


#47
1,2,4-Trimethylbenzene SCAN
Concen: 66.19 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:105 Resp: 3455

Ion	Ratio	Lower	Upper
105	100		
120	38.4	16.9	76.9
119	0.0	0.0	41.9
77	28.1	0.0	42.3

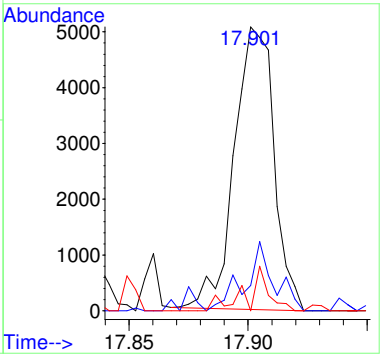




#48
Naphthalene SCAN
Concen: 74.30 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:128 Resp: 5869

Ion	Ratio	Lower	Upper
128	100		
127	17.7	0.0	44.0
129	8.7	0.0	40.8



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122004.D
Acq On : 12 Nov 2020 9:39
InstName : AG5975C
Operator : TD
Sample : S20K052-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

M.I. Performed By:
TD at 10:51 am, Nov 12, 2020

M.I. Approved By:
ZR at 2:14 pm, Nov 23, 2020

Quant Time: Nov 12 09:58:30 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

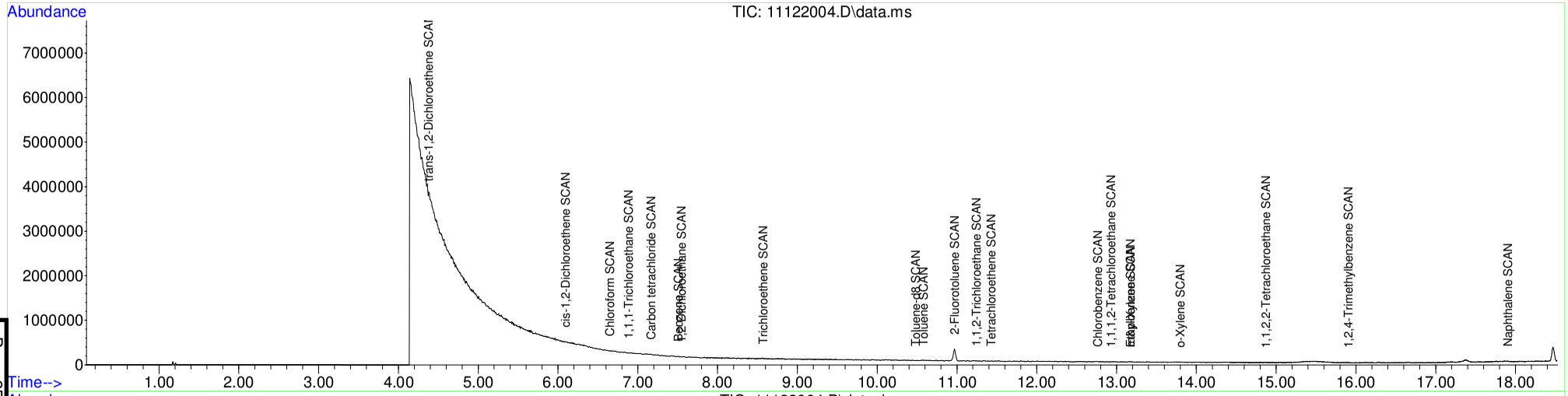
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	406587	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.477	98	3987	50.09	ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 1.00%#				
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.093	61	832m	51.25	ug/L		
3] trans-1,2-Dichloroethene	4.369	61	983	52.40	ug/L		66
4] 1,1-Dichloroethane	5.079	63	1164	49.85	ug/L		67
5] cis-1,2-Dichloroethene	6.081	61	1269	51.49	ug/L		98
6] Chloroform	6.651	83	1187	47.05	ug/L		99
7] 1,1,1-Trichloroethane	6.907	97	1231	44.93	ug/L		99
8] Carbon tetrachloride	7.174	117	1139	44.17	ug/L		98
9] Benzene	7.503	78	3775	54.65	ug/L	#	6
10] 1,2-Dichloroethane	7.539	62	1174	47.61	ug/L	#	22
11] Trichloroethene	8.564	130	972	46.73	ug/L		90
13] Toluene	10.571	91	5153	50.78	ug/L		99
14] 1,1,2-Trichloroethane	11.222	97	1119	50.61	ug/L		97
15] Tetrachloroethene	11.432	166	1436	48.90	ug/L		98
16] Chlorobenzene	12.765	112	3829	52.70	ug/L		75
17] 1,1,1,2-Tetrachloroethane	12.916	131	1343	51.58	ug/L		99
18] Ethylbenzene	12.972	91	6693	54.19	ug/L		95
19] m&p-Xylene	13.162	91	10383	107.56	ug/L		94
20] o-Xylene	13.782	91	5451	52.85	ug/L		95
21] 1,1,2,2-Tetrachloroethane	14.877	83	2490	54.48	ug/L		100
22] 1,3,5-Trimethylbenzene	15.345	105	6132	55.86	ug/L		93
23] 1,2,4-Trimethylbenzene	15.901	105	6531	57.28	ug/L		91
24] Naphthalene	17.902	128	9451	52.44	ug/L		98
25) 2-Fluorotoluene SCAN	10.969	109	207598	5237.78	ug/L		99
27) trans-1,2-Dichloroethe...	4.374	61	276	26.50	ug/L	#	43
29) cis-1,2-Dichloroethene...	6.093	61	386	29.89	ug/L	#	1
30) Chloroform SCAN	6.650	83	803	57.32	ug/L	#	81
31) 1,1,1-Trichloroethane ...	6.881	97	299	23.42	ug/L	#	19
32) Carbon tetrachloride SCAN	7.161	117	633	47.54	ug/L	#	15
33) Benzene SCAN	7.502	78	8311	236.46	ug/L		94
34) 1,2-Dichloroethane SCAN	7.550	62	782	60.25	ug/L	#	40
35) Trichloroethene SCAN	8.573	130	335	34.68	ug/L	#	72
36) Toluene-d8 SCAN	10.486	98	2482	64.03	ug/L		87
37) Toluene SCAN	10.580	91	4279	86.20	ug/L		73
38) 1,1,2-Trichloroethane ...	11.241	97	833	74.76	ug/L	#	35
39) Tetrachloroethene SCAN	11.430	166	704	59.03	ug/L		89
40) Chlorobenzene SCAN	12.764	112	2266	66.80	ug/L	#	78
41) 1,1,1,2-Tetrachloroeth...	12.931	131	652	51.94	ug/L	#	10
42) Ethylbenzene SCAN	13.169	91	5494	60.75	ug/L		82
43) m&p-Xylene SCAN	13.169	91	5494	60.75	ug/L		82
44) o-Xylene SCAN	13.796	91	3111	64.27	ug/L		96
45) 1,1,2,2-Tetrachloroeth...	14.872	83	1089	46.14	ug/L		77
47) 1,2,4-Trimethylbenzene...	15.904	105	3455	66.19	ug/L	#	79
48) Naphthalene SCAN	17.901	128	5869	74.30	ug/L		92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122004.D
Acq On : 12 Nov 2020 9:39
InstName : AG5975C
Operator : TD
Sample : S20K052-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 12 09:58:30 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



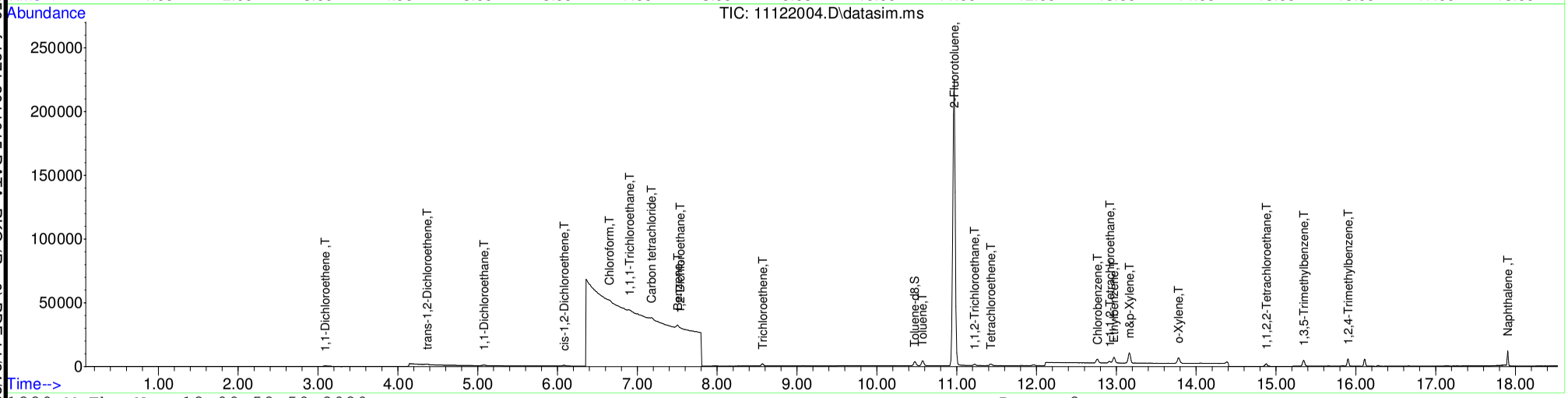
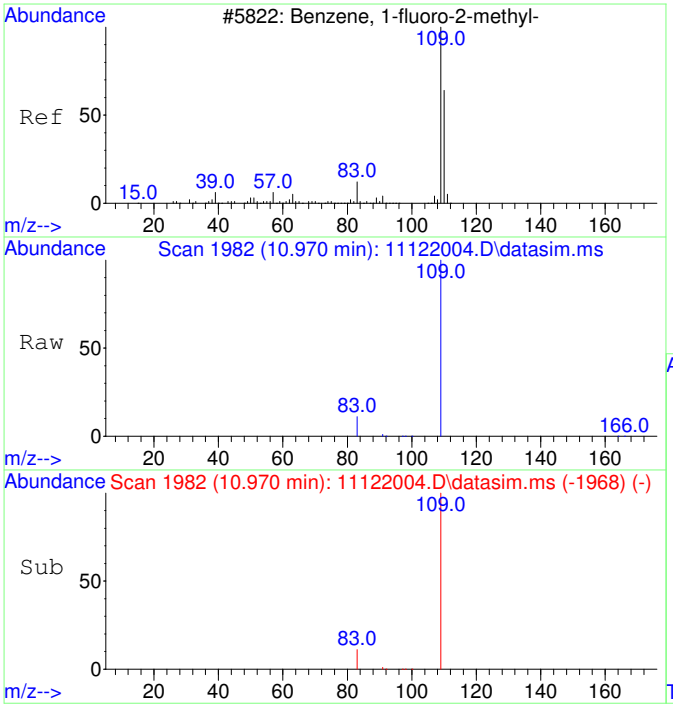


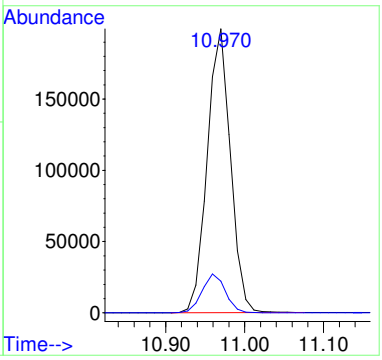
Table of Contents

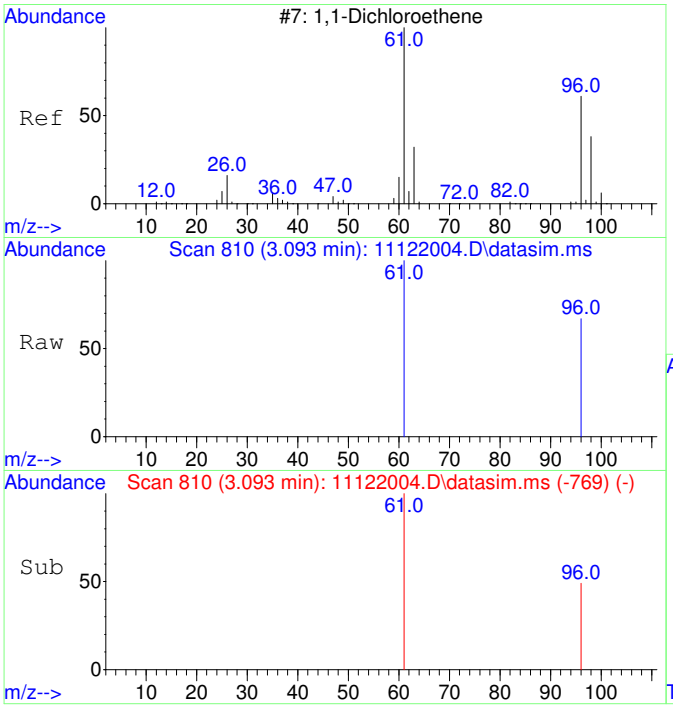


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:109 Resp: 406587

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

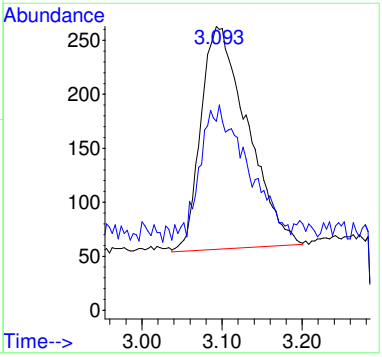


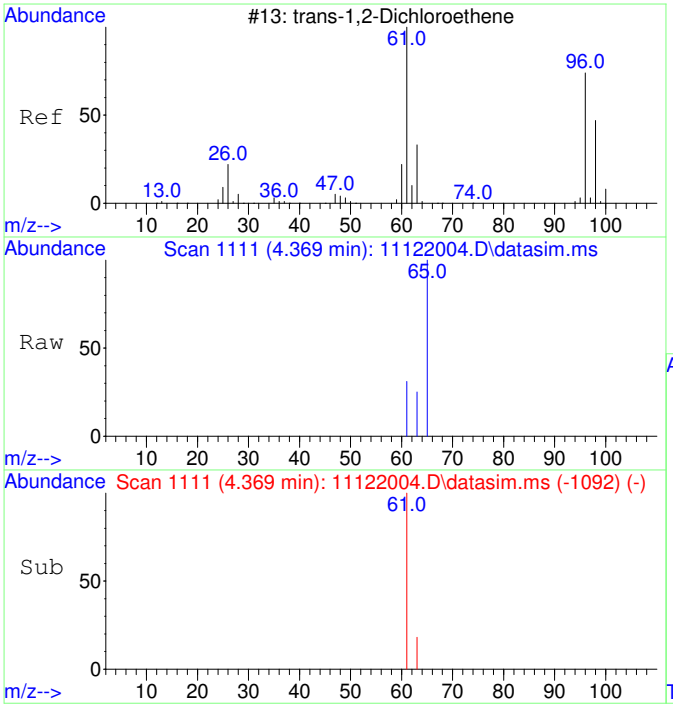


#2
1,1-Dichloroethene
Concen: 51.25 ug/L m
RT: 3.093 min Scan# 810
Delta R.T. 0.003 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 832

Ion	Ratio	Lower	Upper
61	100		
96	39.1	37.2	97.2

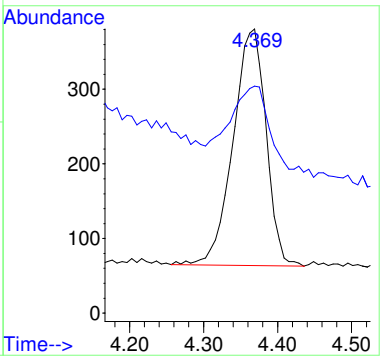


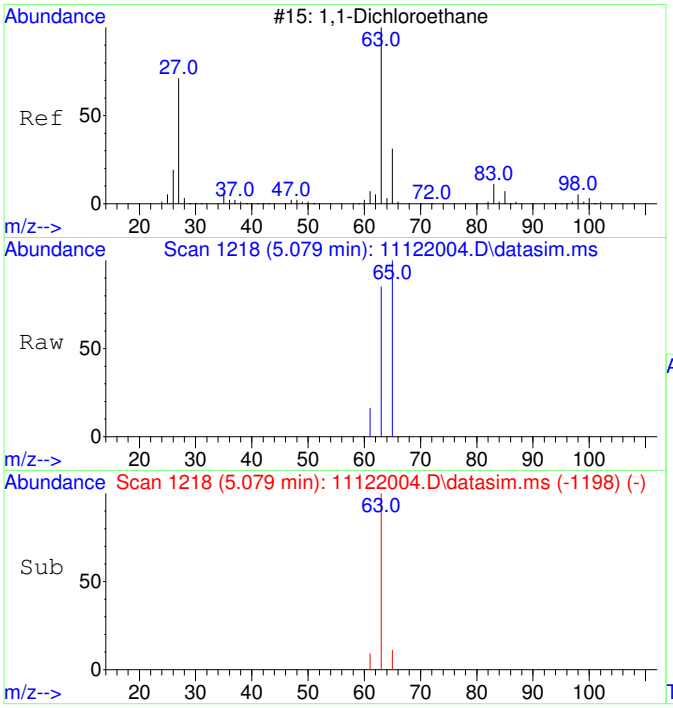


#3
trans-1,2-Dichloroethene
Concen: 52.40 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. -0.027 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 983

Ion	Ratio	Lower	Upper
61	100		
63	51.7	2.4	62.4

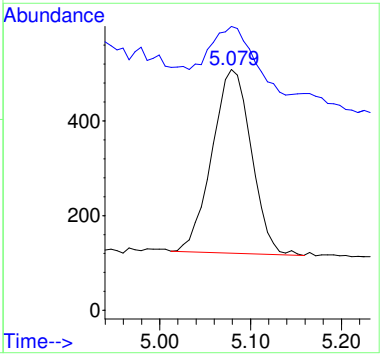


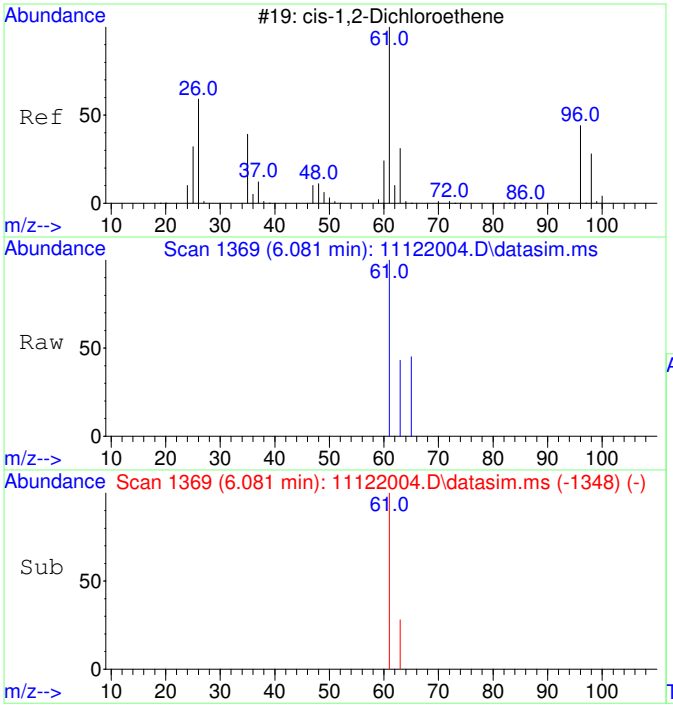


#4
1,1-Dichloroethane
Concen: 49.85 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 63 Resp: 1164

Ion	Ratio	Lower	Upper
63	100		
65	50.0	1.8	61.8

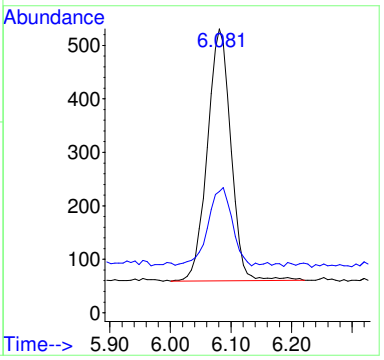


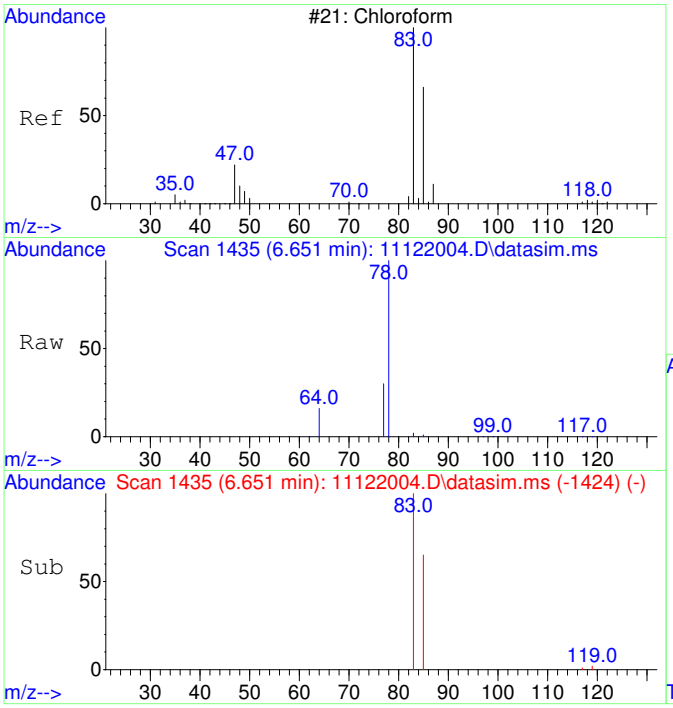


#5
cis-1,2-Dichloroethene
Concen: 51.49 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 1269

Ion	Ratio	Lower	Upper
61	100		
63	31.6	2.5	62.5

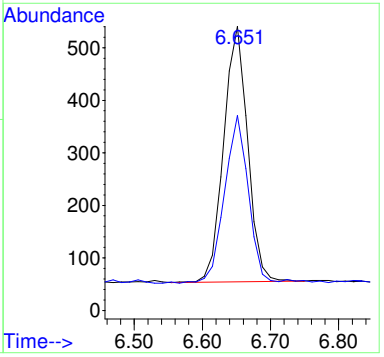


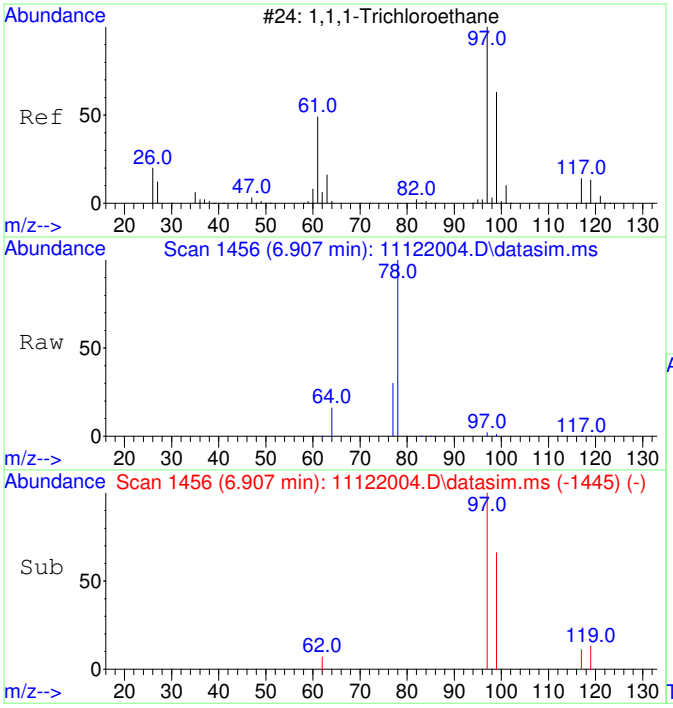


#6
Chloroform
Concen: 47.05 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 1187

Ion	Ratio	Lower	Upper
83	100		
85	64.0	35.1	95.1

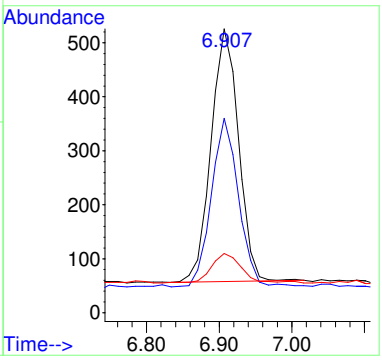


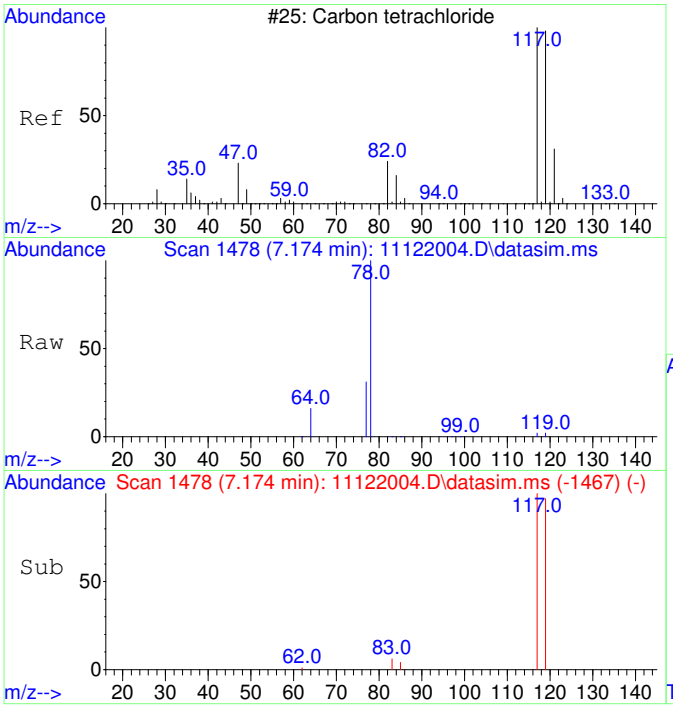


#7
1,1,1-Trichloroethane
Concen: 44.93 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 1231

Ion	Ratio	Lower	Upper
97	100		
99	65.2	34.6	94.6
117	13.0	0.0	43.2

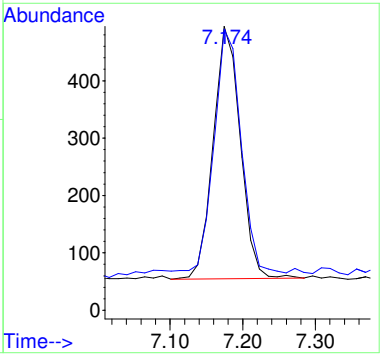


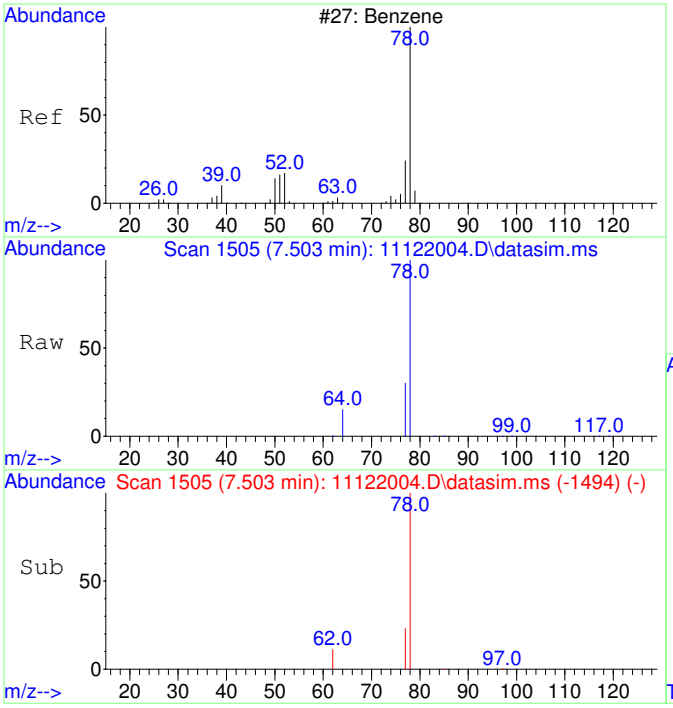


#8
Carbon tetrachloride
Concen: 44.17 ug/L
RT: 7.174 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:117 Resp: 1139

Ion	Ratio	Lower	Upper
117	100		
119	94.6	66.4	126.4

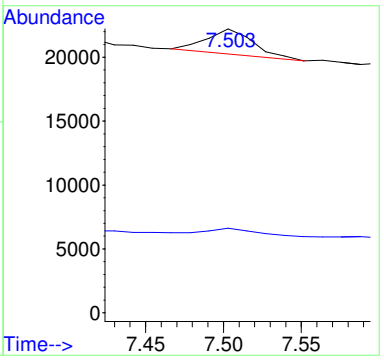


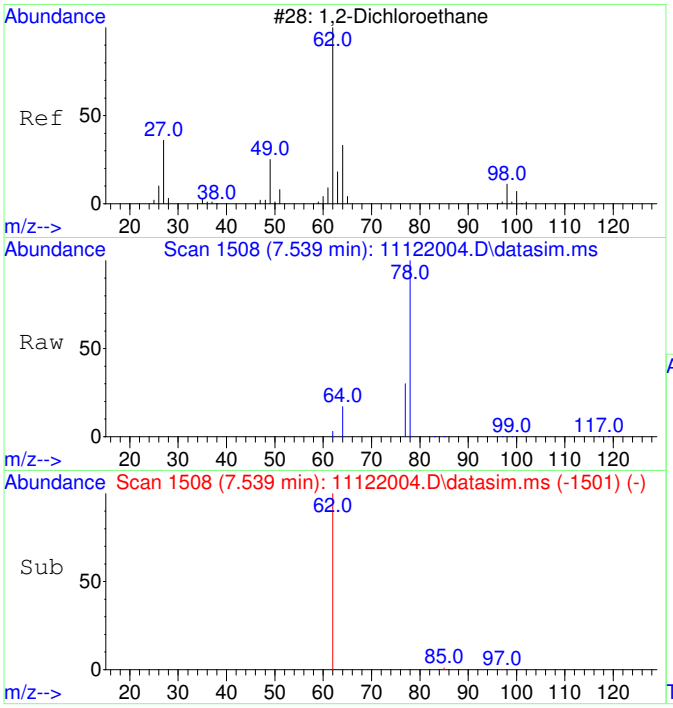


#9
Benzene
Concen: 54.65 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 78 Resp: 3775

Ion	Ratio	Lower	Upper
78	100		
77	68.8	0.0	53.2#

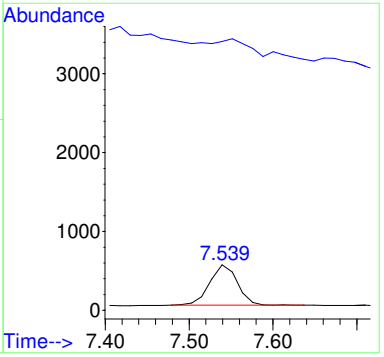


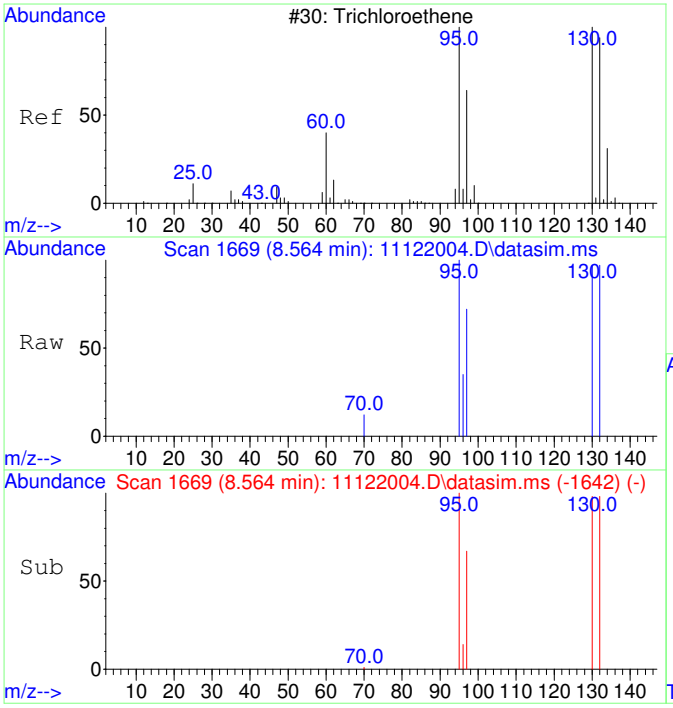


#10
1,2-Dichloroethane
Concen: 47.61 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 62 Resp: 1174

Ion	Ratio	Lower	Upper
62	100		
64	76.2	2.3	62.3#

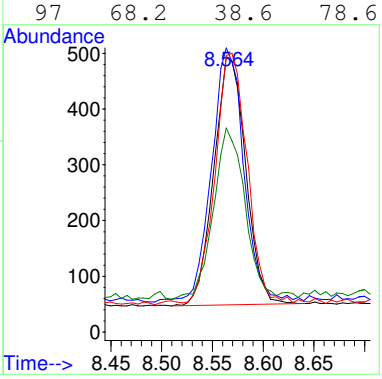


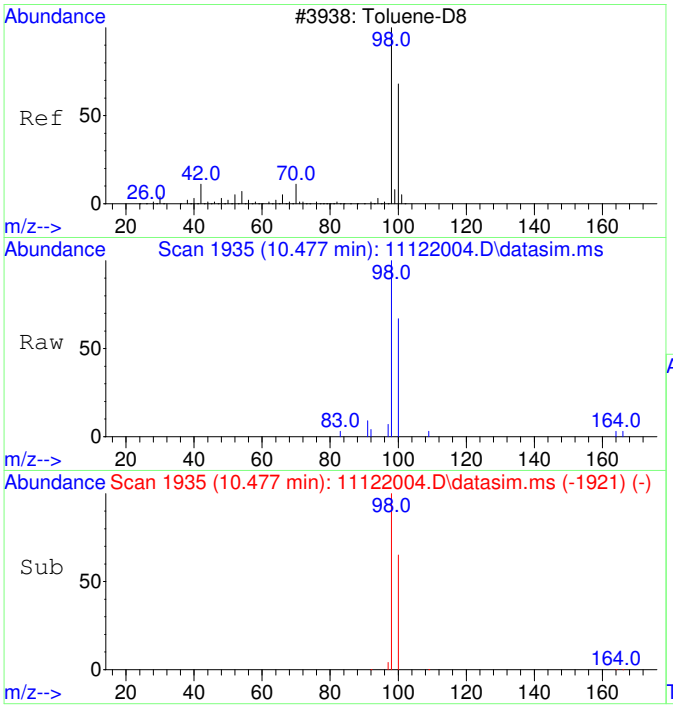


#11
Trichloroethene
Concen: 46.73 ug/L
RT: 8.564 min Scan# 1669
Delta R.T. -0.006 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:130 Resp: 972

Ion	Ratio	Lower	Upper
130	100		
95	103.4	60.7	120.7
132	100.2	76.0	116.0
97	68.2	38.6	78.6

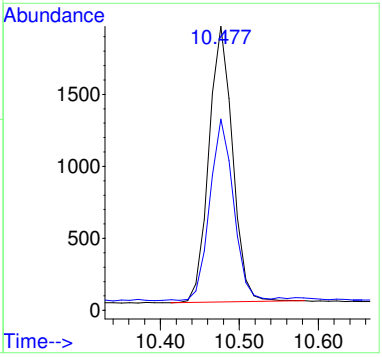


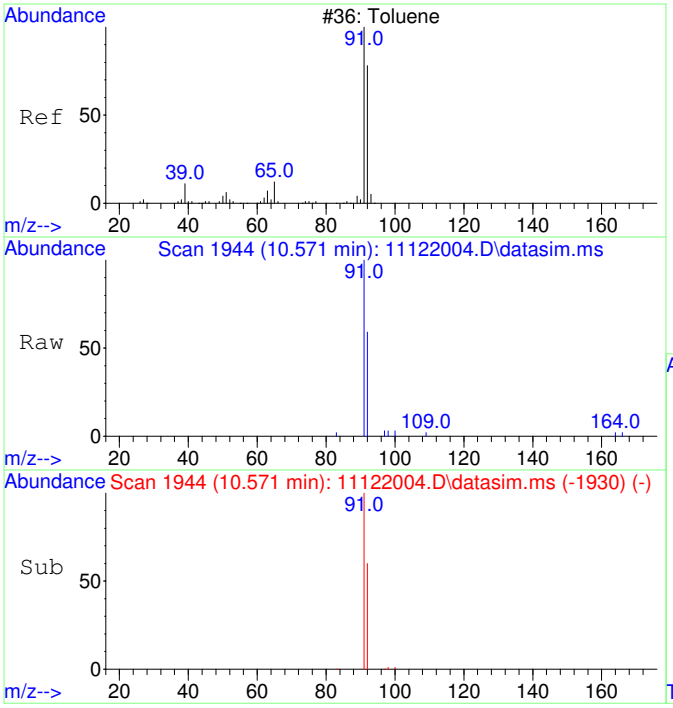


#12
Toluene-d8
Concen: 50.09 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 98 Resp: 3987

Ion	Ratio	Lower	Upper
98	100		
100	64.7	37.1	97.1

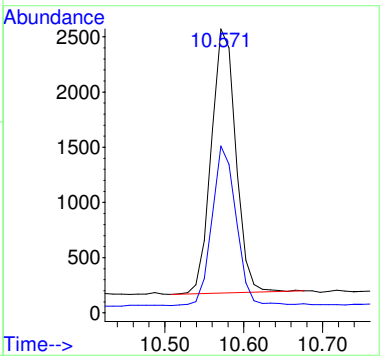


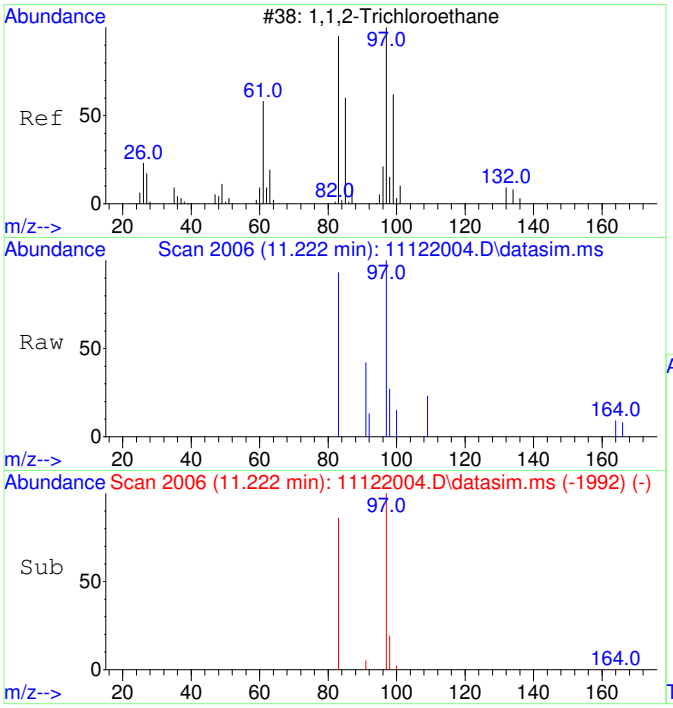


#13
Toluene
Concen: 50.78 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5153

Ion	Ratio	Lower	Upper
91	100		
92	58.8	29.9	89.9

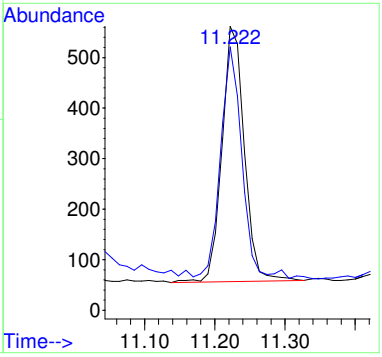


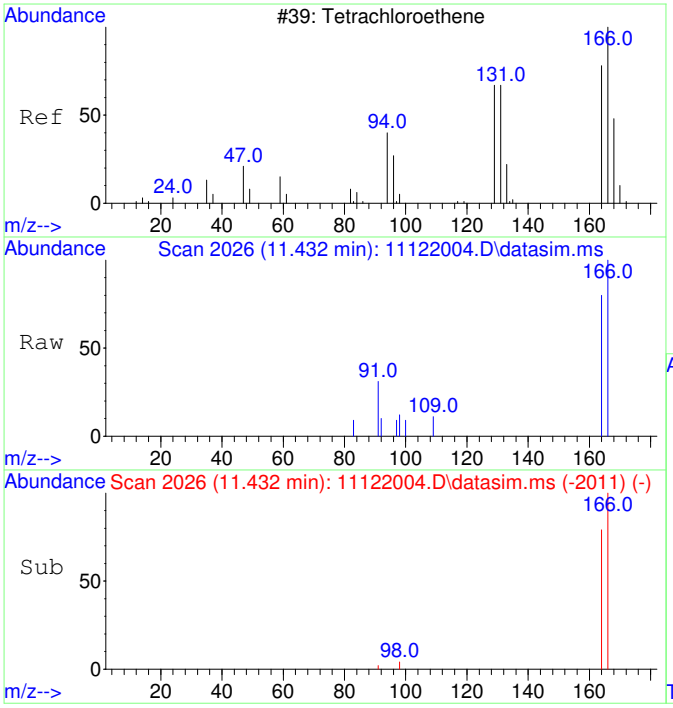


#14
1,1,2-Trichloroethane
Concen: 50.61 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 1119

Ion	Ratio	Lower	Upper
97	100		
83	84.0	51.2	111.2

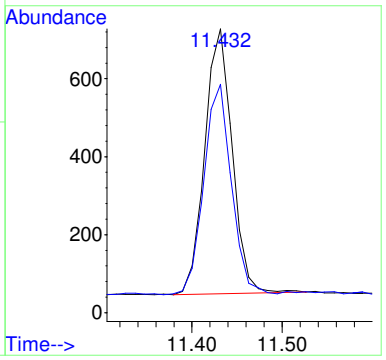


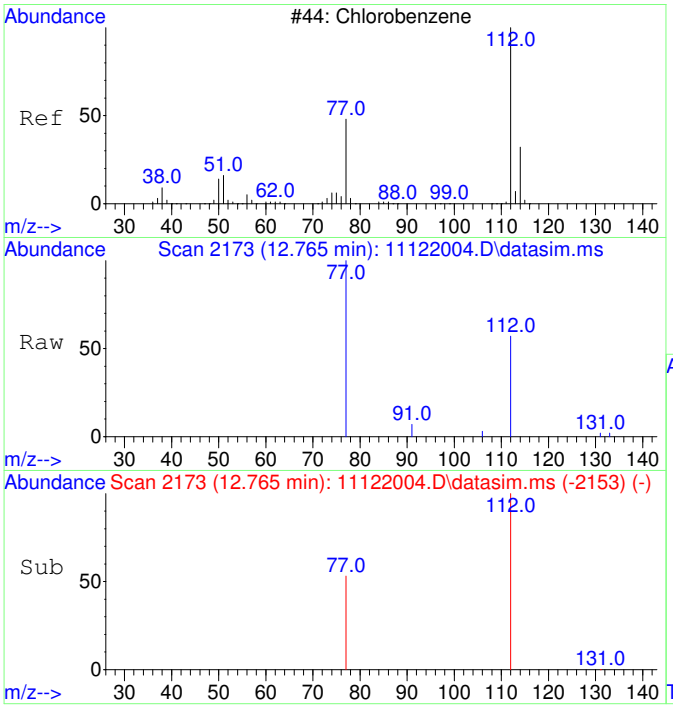


#15
Tetrachloroethene
Concen: 48.90 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:166 Resp: 1436

Ion	Ratio	Lower	Upper
166	100		
164	79.4	47.8	107.8

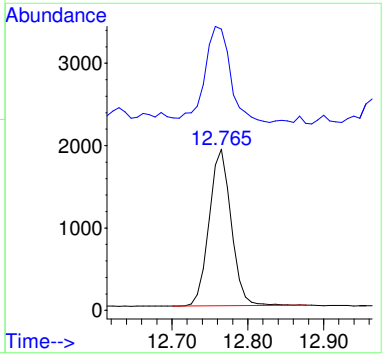


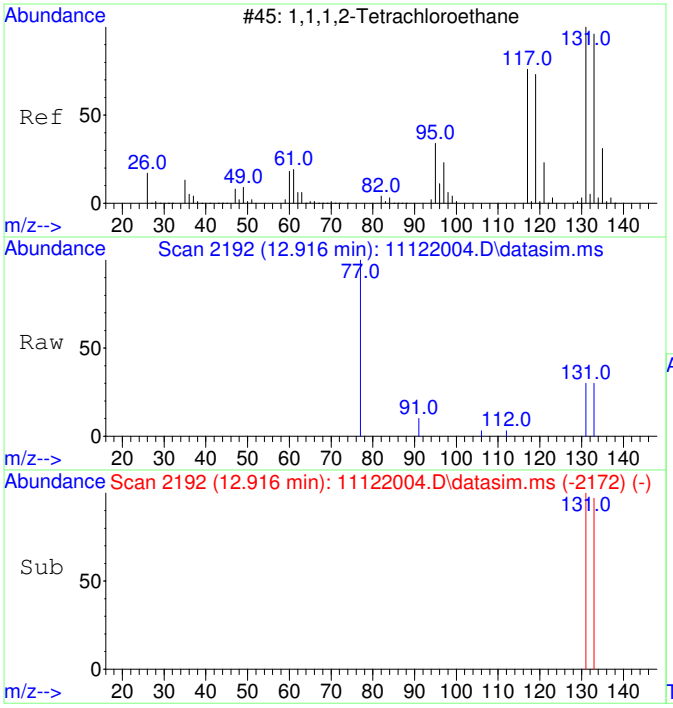


#16
Chlorobenzene
Concen: 52.70 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:112 Resp: 3829

Ion	Ratio	Lower	Upper
112	100		
77	71.3	23.6	83.6

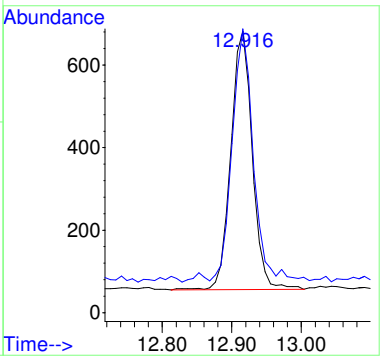


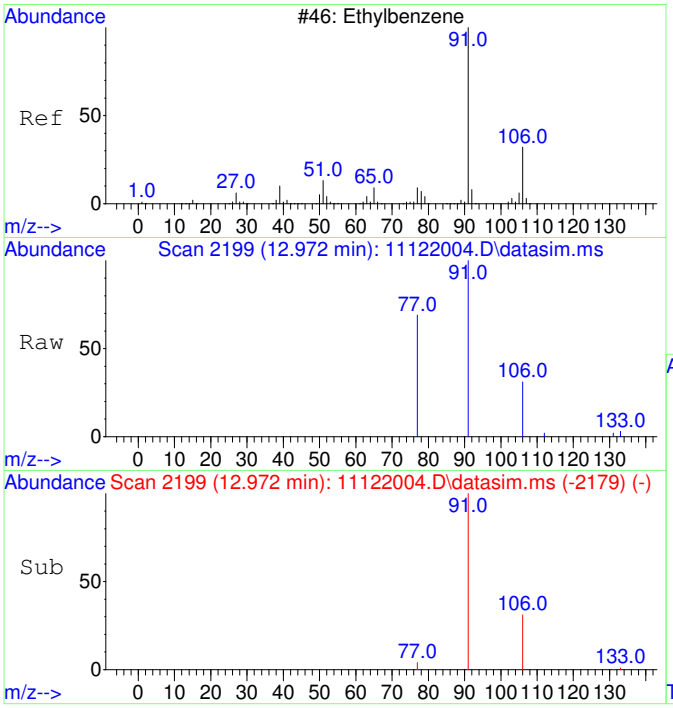


#17
1,1,1,2-Tetrachloroethane
Concen: 51.58 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:131 Resp: 1343

Ion	Ratio	Lower	Upper
131	100		
133	95.2	66.3	126.3

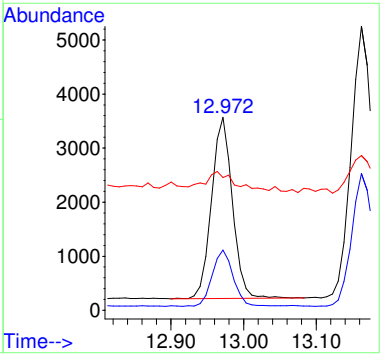


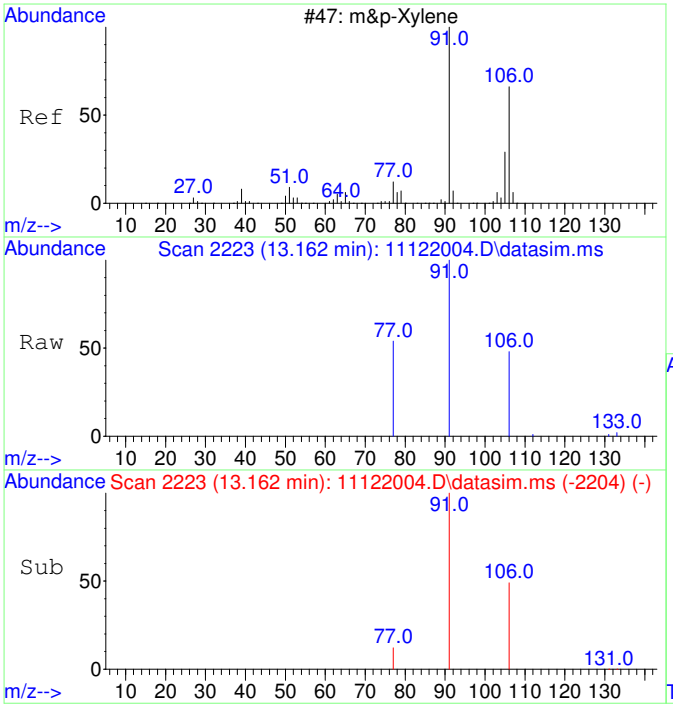


#18
Ethylbenzene
Concen: 54.19 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 6693

Ion	Ratio	Lower	Upper
91	100		
106	31.5	3.0	63.0
77	14.0	0.0	38.2

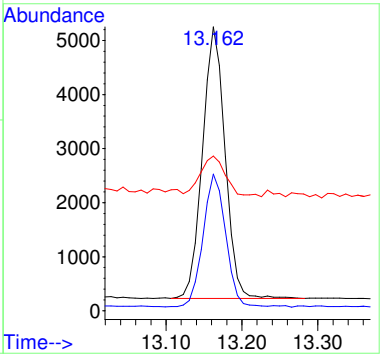


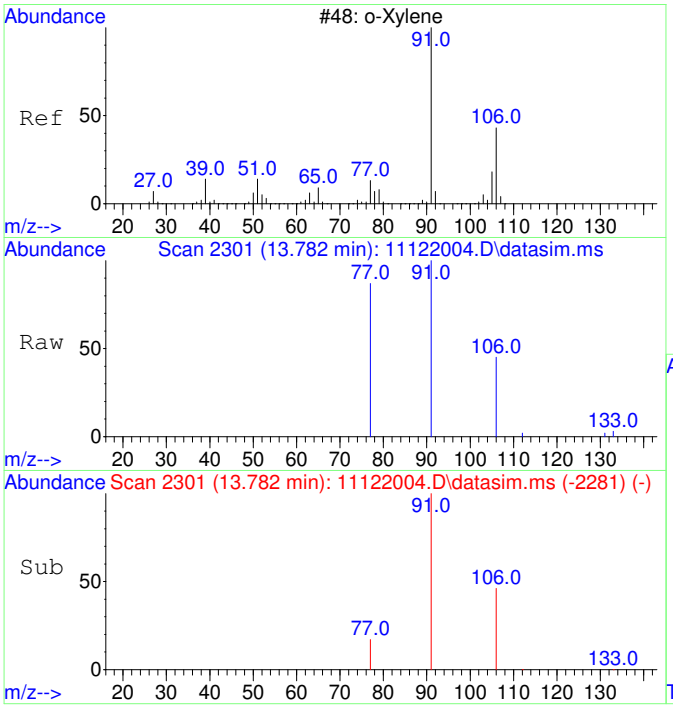


#19
m&p-Xylene
Concen: 107.56 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 10383

Ion	Ratio	Lower	Upper
91	100		
106	48.3	22.2	82.2
77	14.9	0.0	42.4

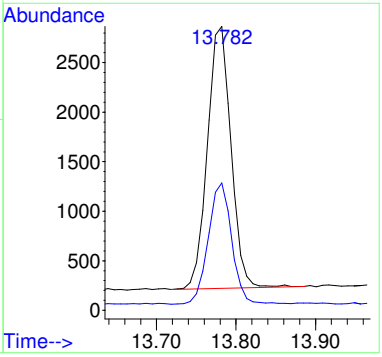


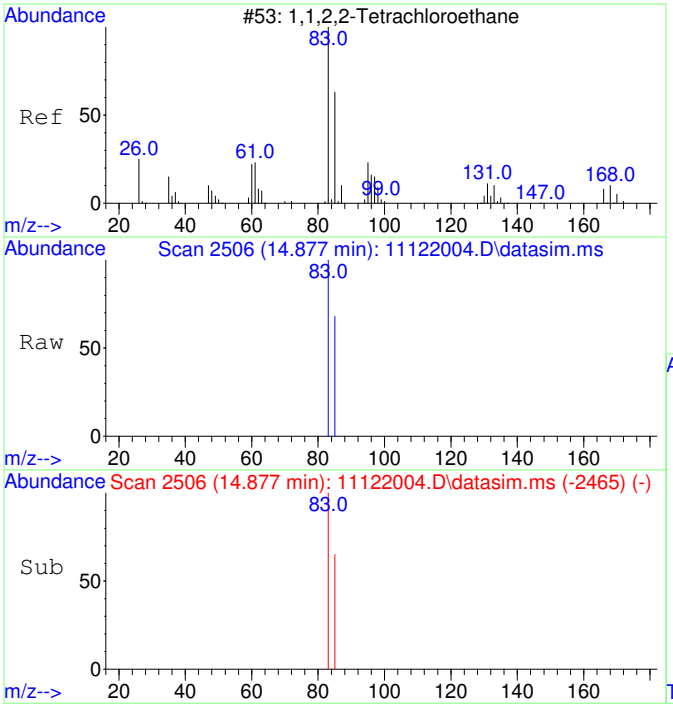


#20
o-Xylene
Concen: 52.85 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5451

Ion	Ratio	Lower	Upper
91	100		
106	45.7	19.2	79.2

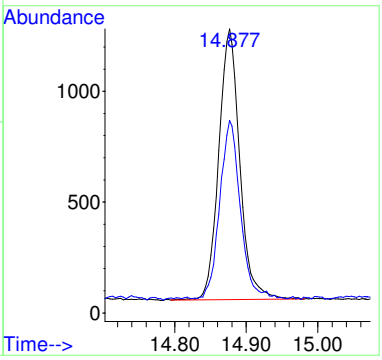


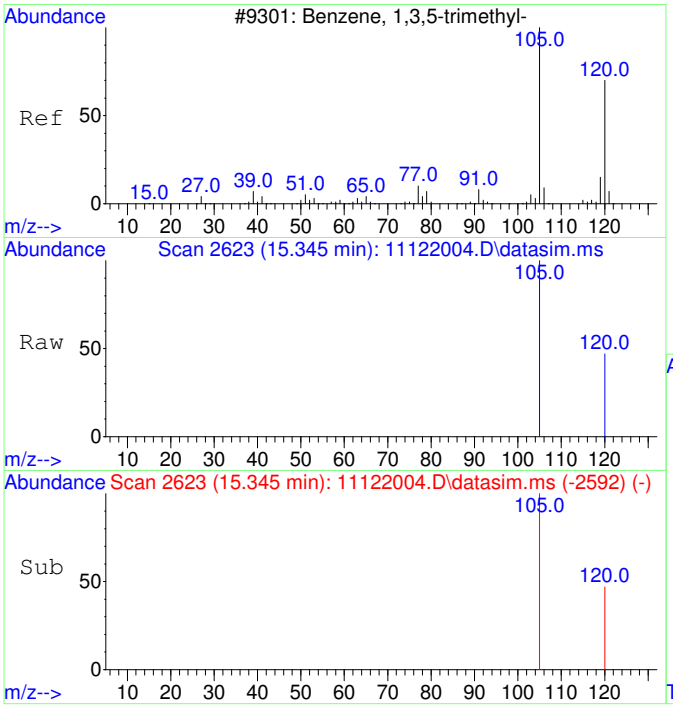


#21
1,1,2,2-Tetrachloroethane
Concen: 54.48 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. 0.004 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 2490

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.8	94.8

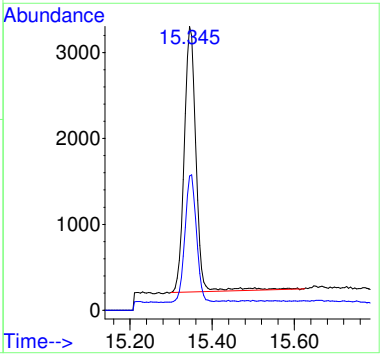


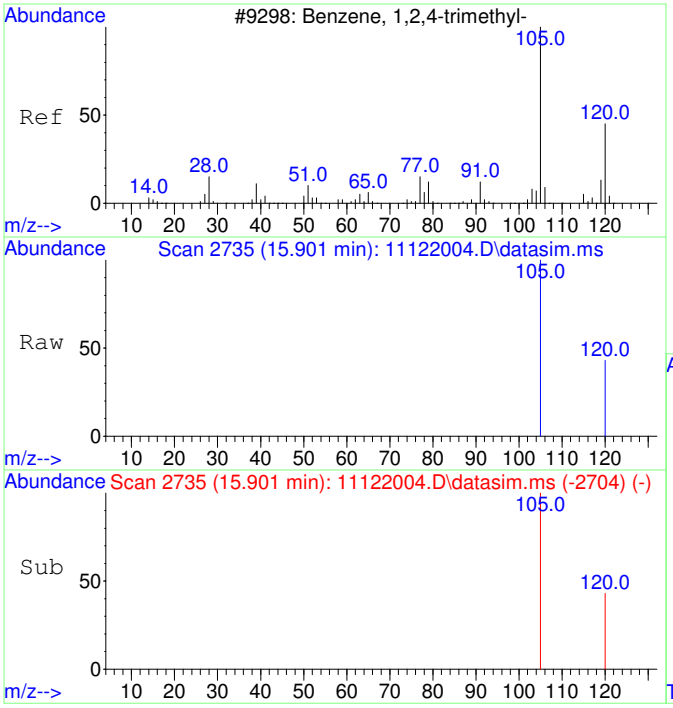


#22
1,3,5-Trimethylbenzene
Concen: 55.86 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:105 Resp: 6132

Ion	Ratio	Lower	Upper
105	100		
120	46.0	21.1	81.1

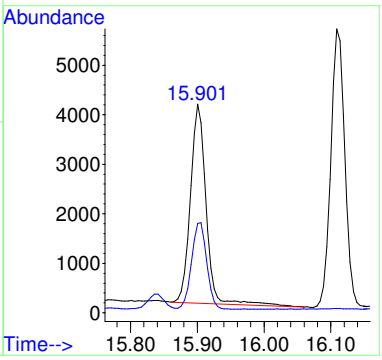


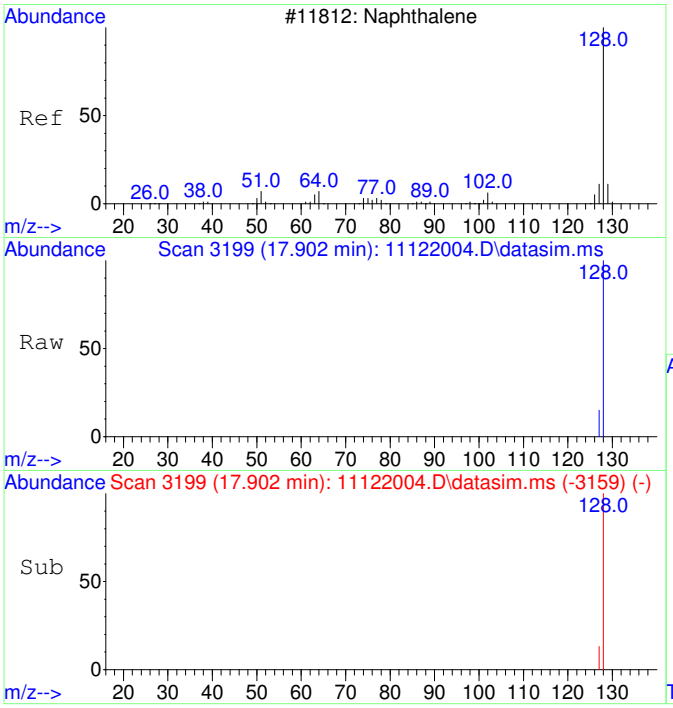


#23
1,2,4-Trimethylbenzene
Concen: 57.28 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:105 Resp: 6531

Ion	Ratio	Lower	Upper
105	100		
120	41.4	17.2	77.2

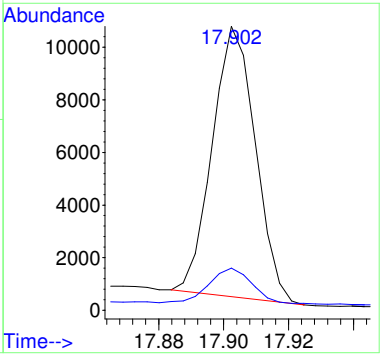


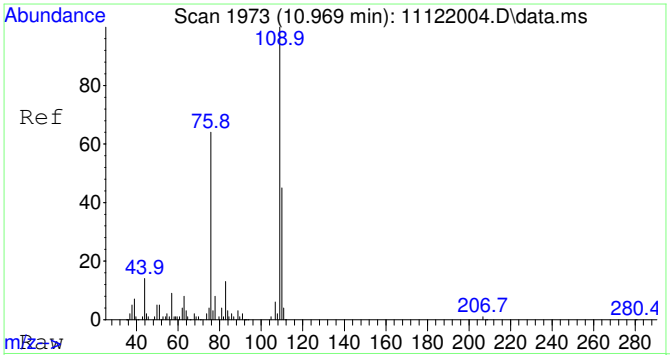


#24
Naphthalene
Concen: 52.44 ug/L
RT: 17.902 min Scan# 3199
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:128 Resp: 9451

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.5

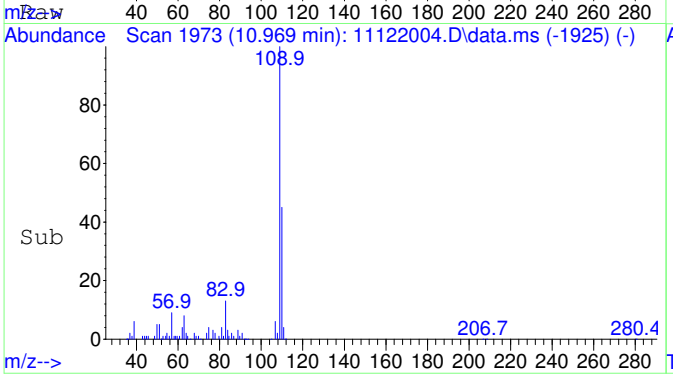


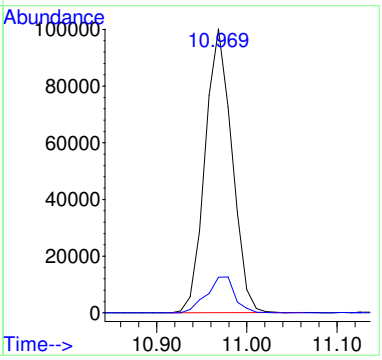


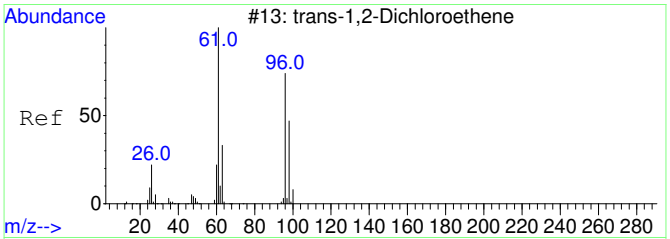
#25
2-Fluorotoluene SCAN
Concen: 5237.78 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:109 Resp: 207598

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.8



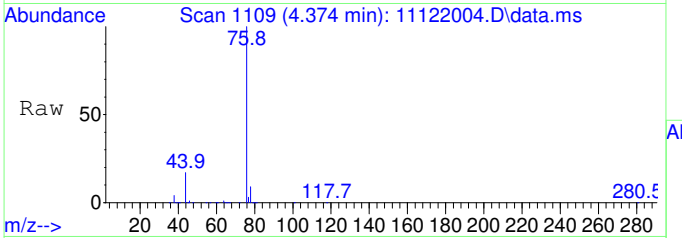


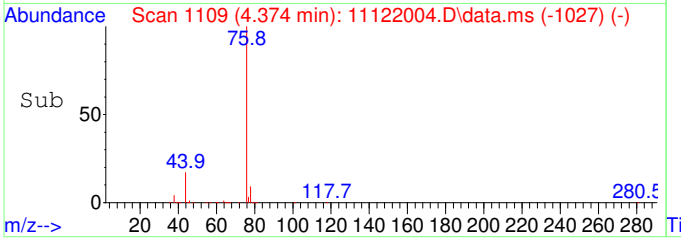


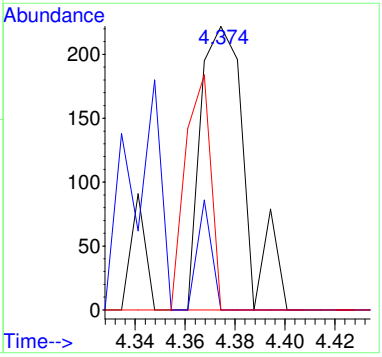
#27
trans-1,2-Dichloroethene SCAN
Concen: 26.50 ug/L
RT: 4.374 min Scan# 1109
Delta R.T. -0.027 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

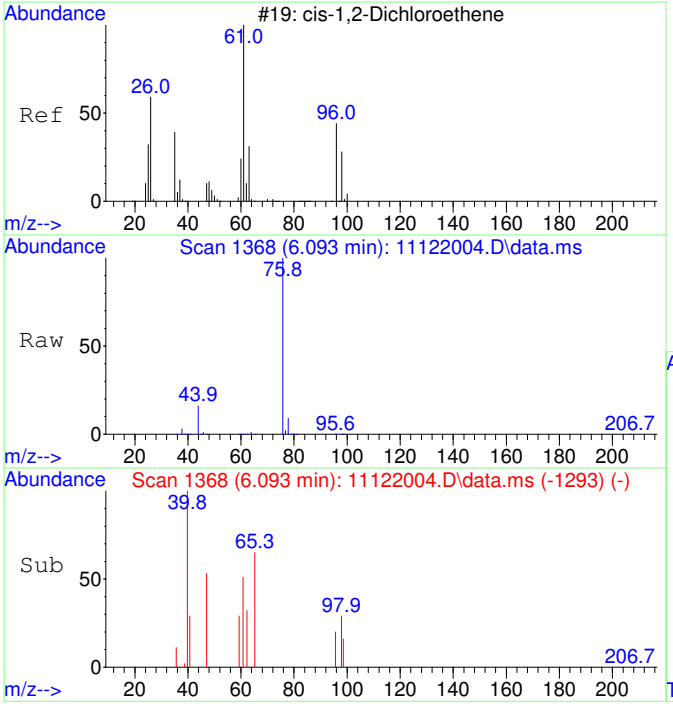
Tgt Ion: 61 Resp: 276

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	47.1	20.5	80.5





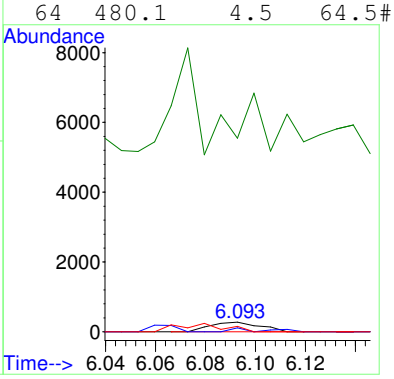


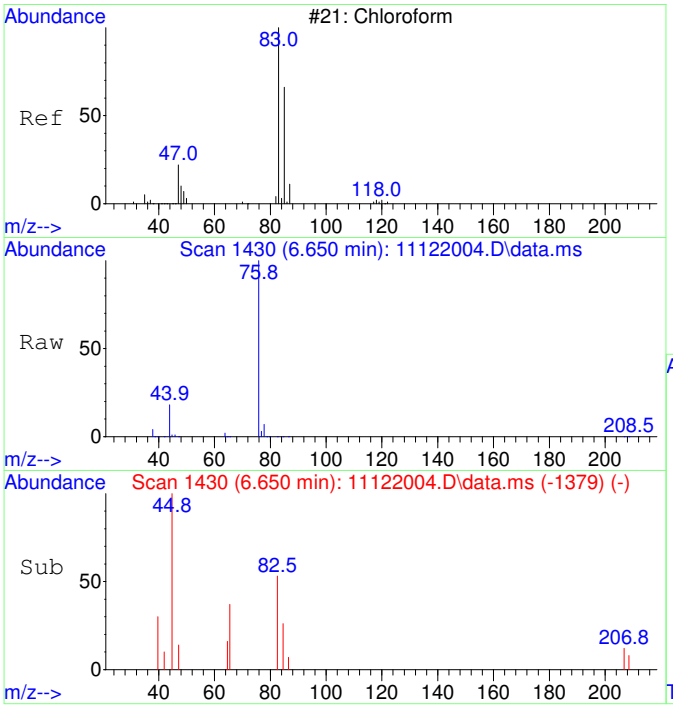


#29
cis-1,2-Dichloroethene SCAN
Concen: 29.89 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 386

Ion	Ratio	Lower	Upper
61	100		
96	23.8	39.9	99.9#
98	80.8	13.5	73.5#
64	480.1	4.5	64.5#

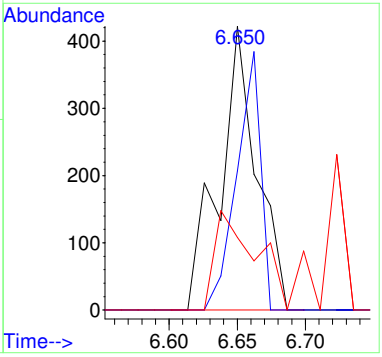


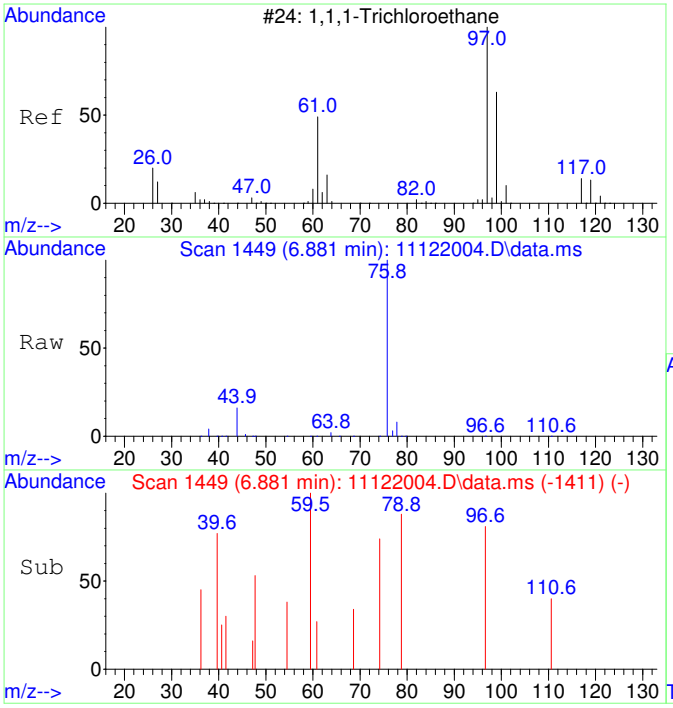


#30
Chloroform SCAN
Concen: 57.32 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 803

Ion	Ratio	Lower	Upper
83	100		
85	58.3	34.6	94.6
47	0.0	0.0	53.4

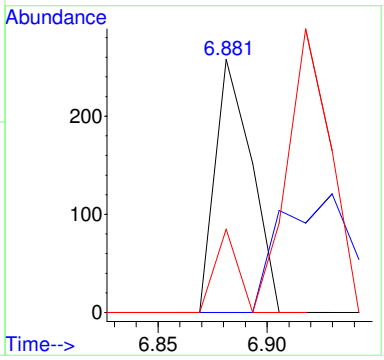


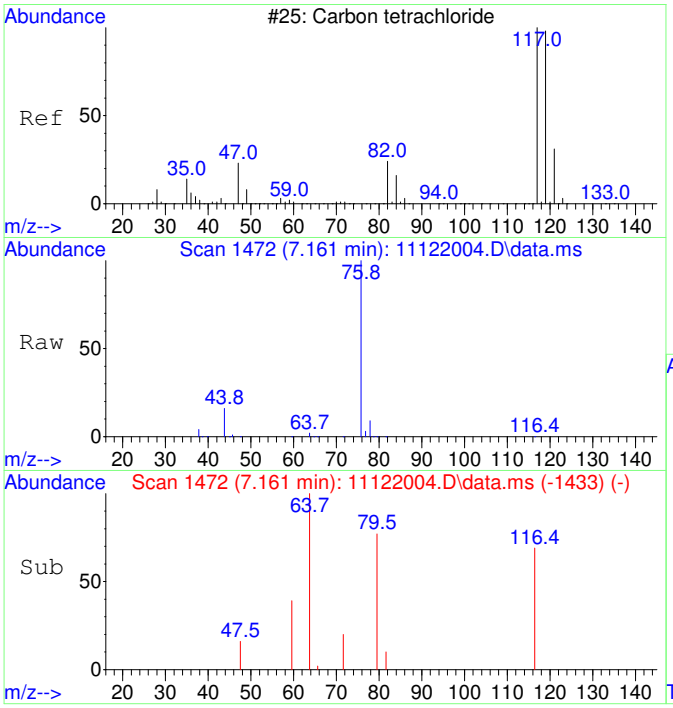


#31
1,1,1-Trichloroethane SCAN
Concen: 23.42 ug/L
RT: 6.881 min Scan# 1449
Delta R.T. -0.037 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 299

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

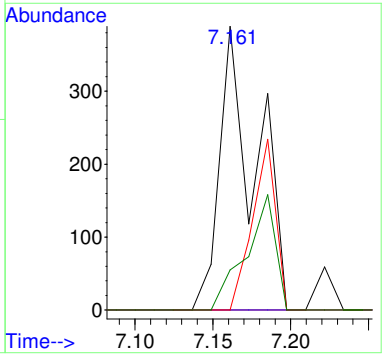


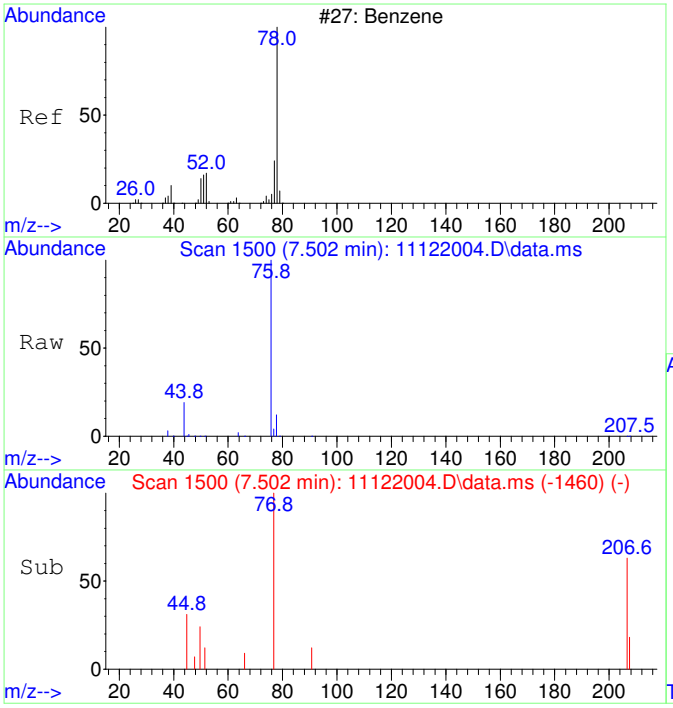


#32
Carbon tetrachloride SCAN
Concen: 47.54 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.024 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:117 Resp: 633

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

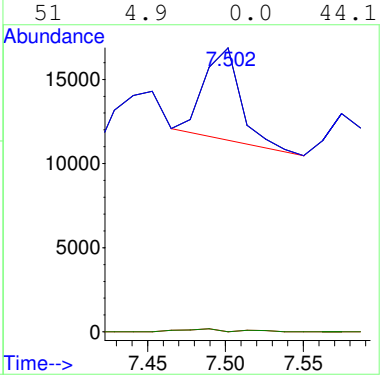


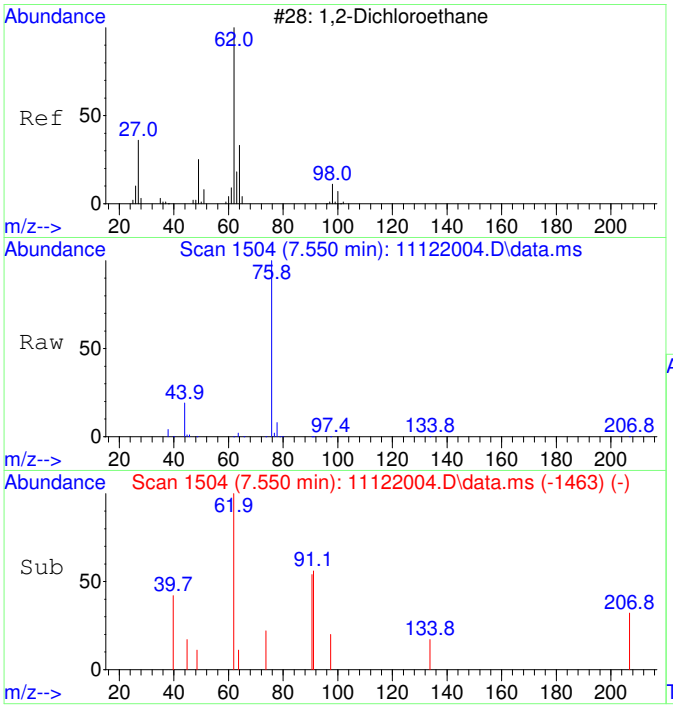


#33
Benzene SCAN
Concen: 236.46 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 78 Resp: 8311

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	4.9	0.0	47.9
51	4.9	0.0	44.1

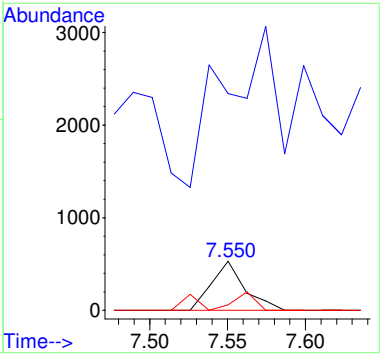


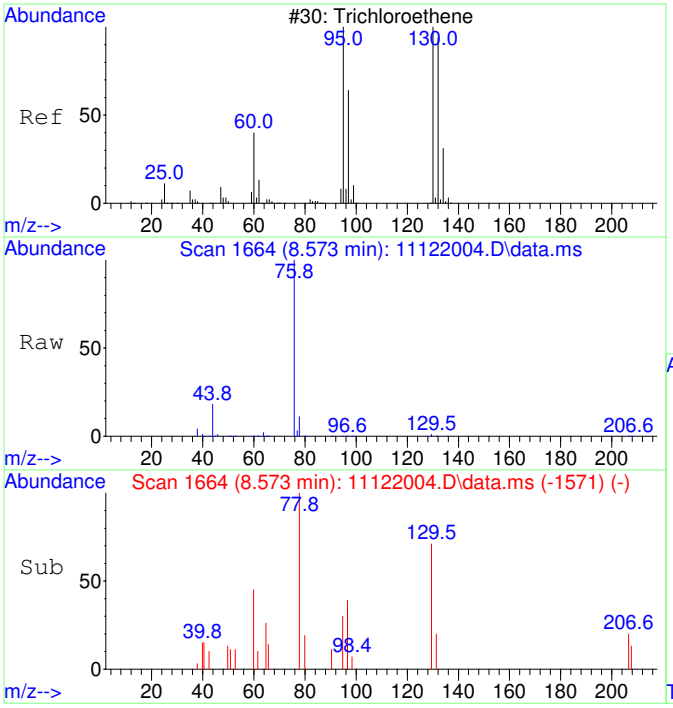


#34
1,2-Dichloroethane SCAN
Concen: 60.25 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 62 Resp: 782

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

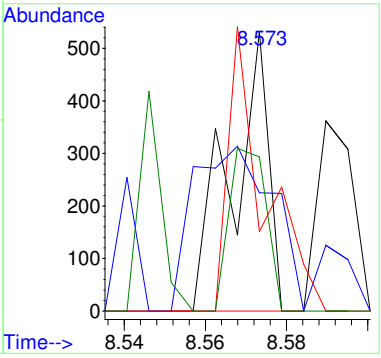


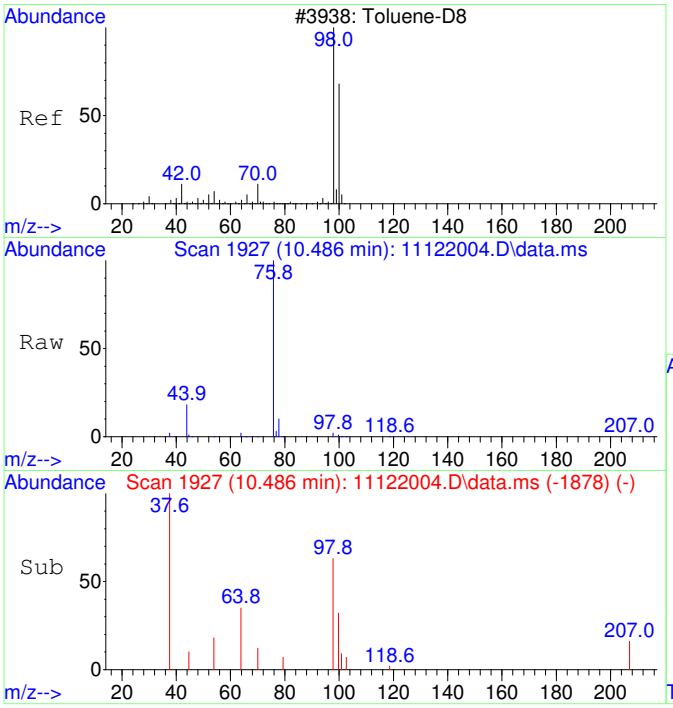


#35
Trichloroethene SCAN
Concen: 34.68 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.005 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:130 Resp: 335

Ion	Ratio	Lower	Upper
130	100		
95	149.6	60.5	120.5#
132	99.1	59.6	119.6
97	58.8	28.2	88.2

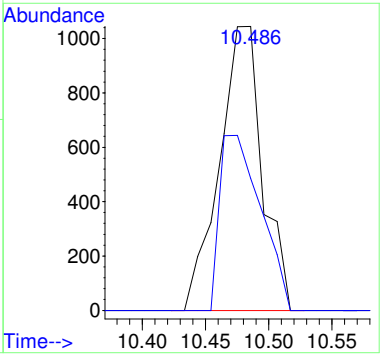


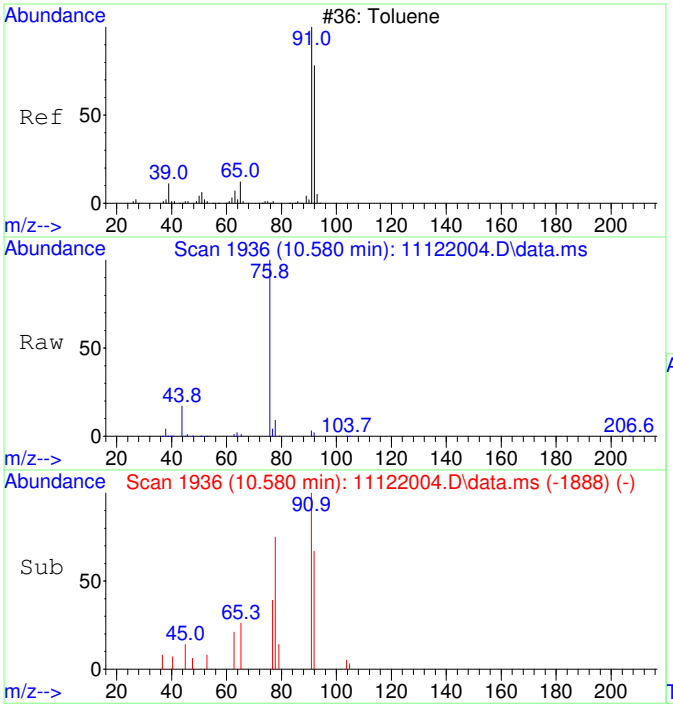


#36
Toluene-d8 SCAN
Concen: 64.03 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 98 Resp: 2482

Ion	Ratio	Lower	Upper
98	100		
100	58.9	40.0	100.0

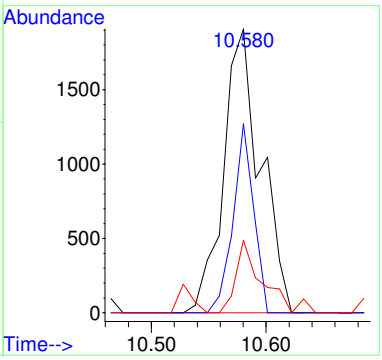


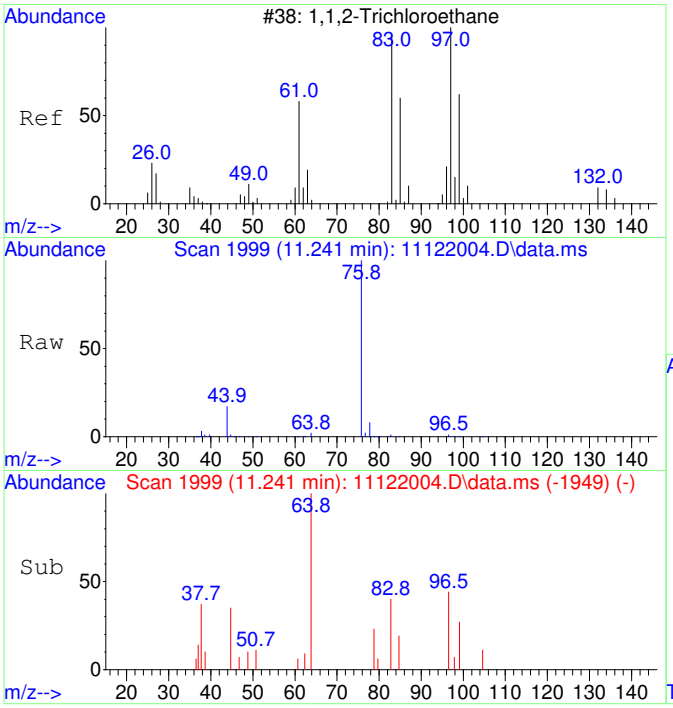


#37
Toluene SCAN
Concen: 86.20 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 4279

Ion	Ratio	Lower	Upper
91	100		
92	36.8	28.3	88.3
65	18.6	0.0	41.0

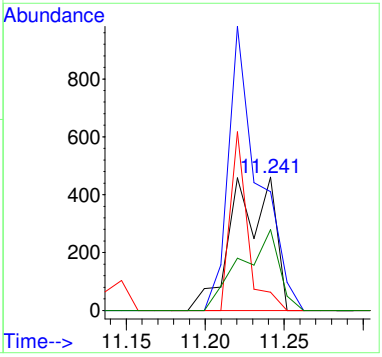


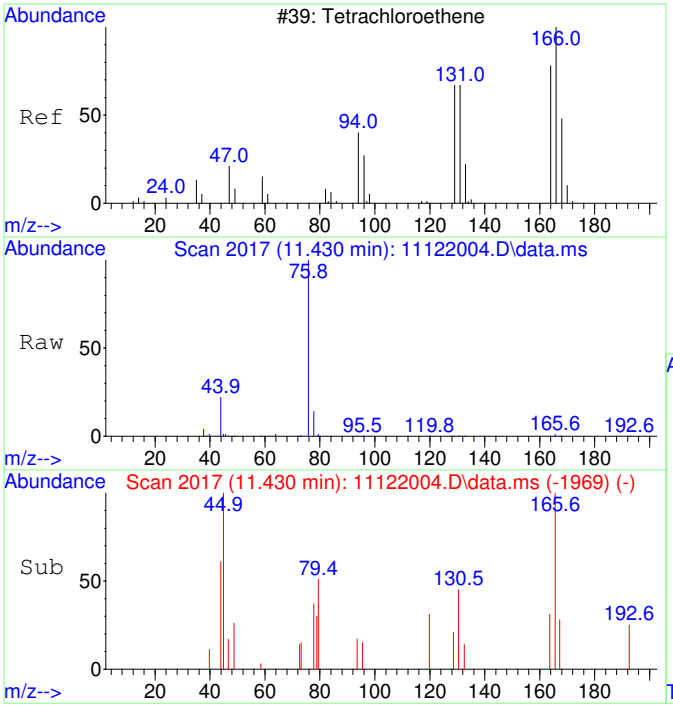


#38
1,1,2-Trichloroethane SCAN
Concen: 74.76 ug/L
RT: 11.241 min Scan# 1999
Delta R.T. 0.021 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 833

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	56.8	36.7	96.7

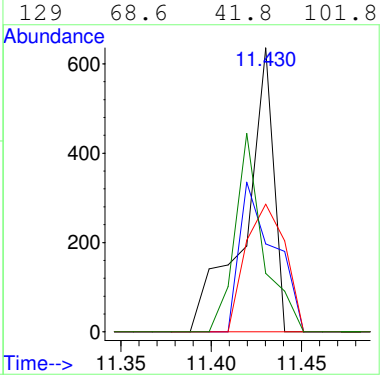


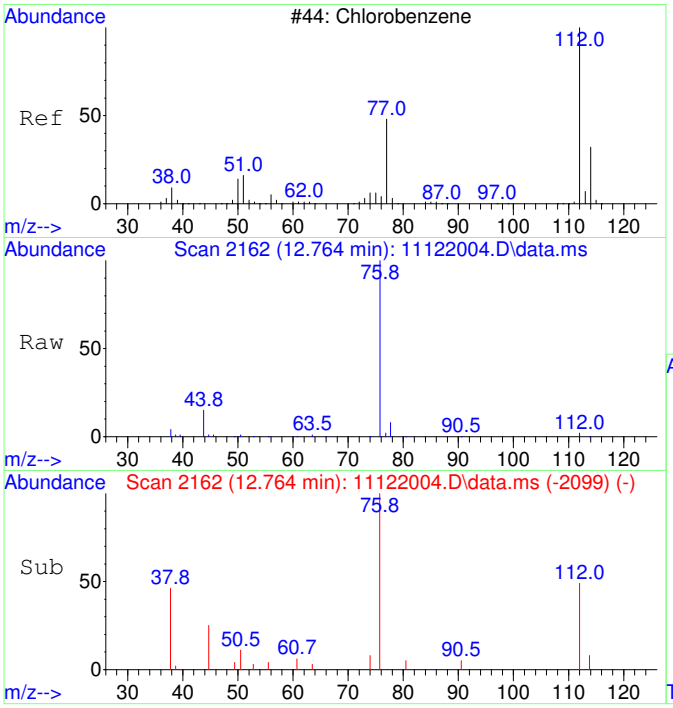


#39
Tetrachloroethene SCAN
Concen: 59.03 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:166 Resp: 704

Ion	Ratio	Lower	Upper
166	100		
164	63.6	50.9	110.9
131	62.2	38.7	98.7
129	68.6	41.8	101.8

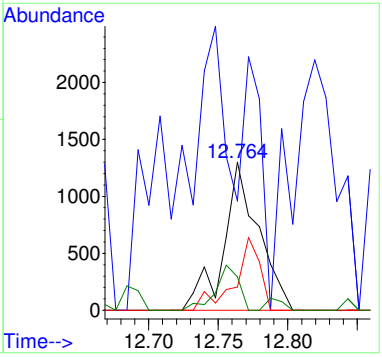


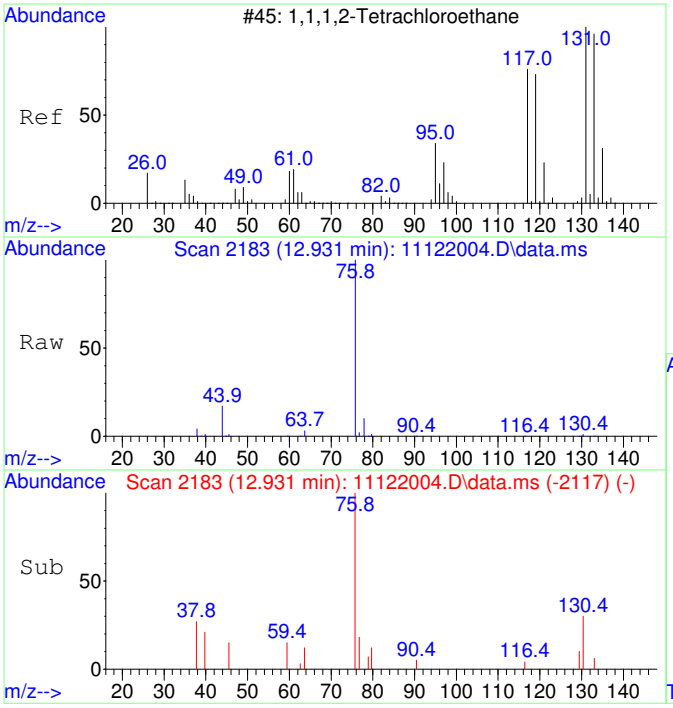


#40
Chlorobenzene SCAN
Concen: 66.80 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:112 Resp: 2266

Ion	Ratio	Lower	Upper
112	100		
77	65.9	28.2	88.2
114	0.0	2.3	62.3#
51	20.1	0.0	50.1

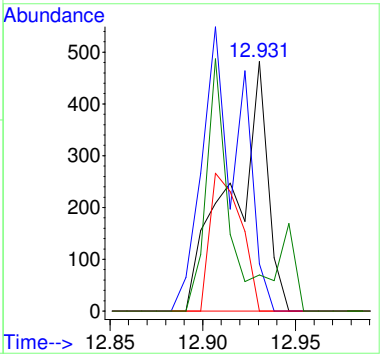


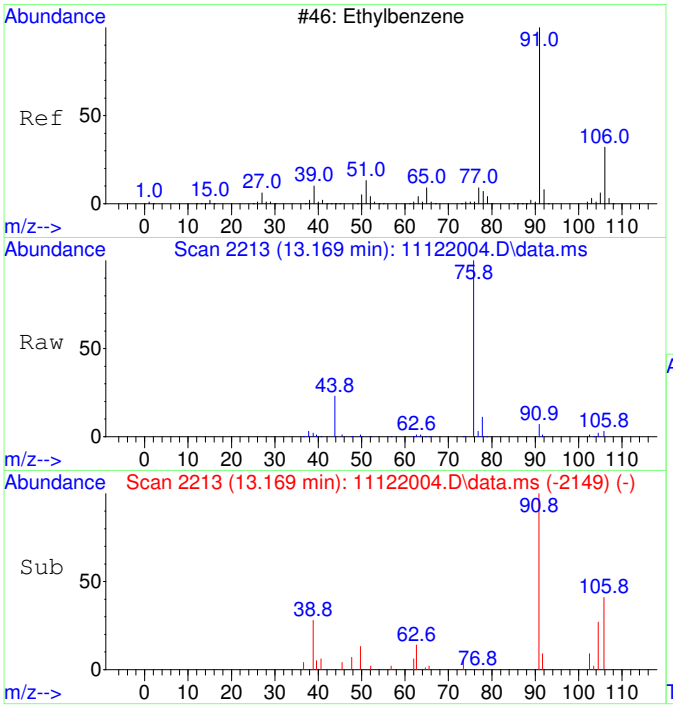


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 51.94 ug/L
RT: 12.931 min Scan# 2183
Delta R.T. 0.024 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:131 Resp: 652

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#

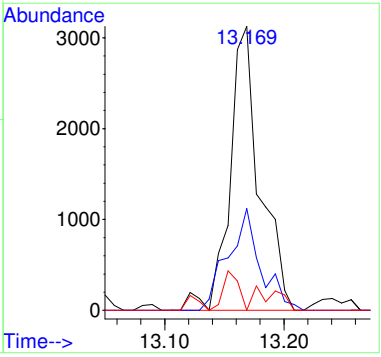


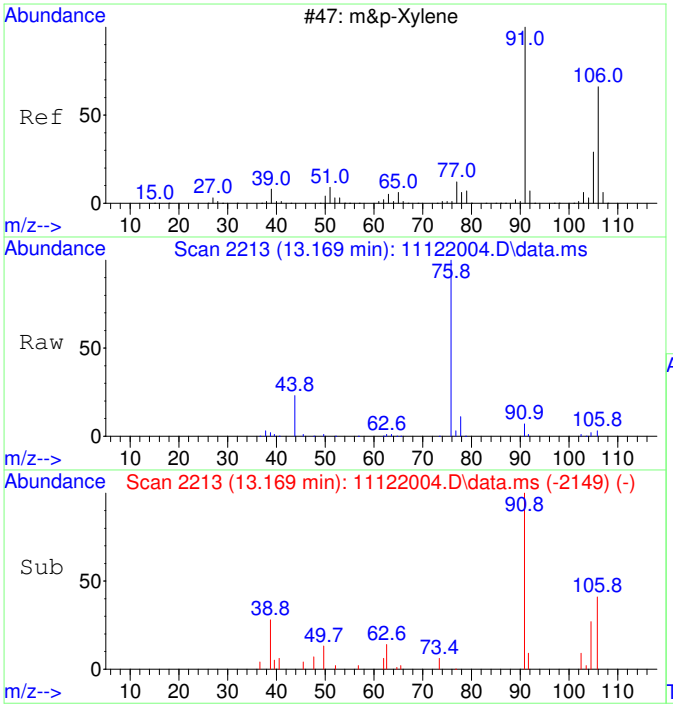


#42
Ethylbenzene SCAN
Concen: 60.75 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5494

Ion	Ratio	Lower	Upper
91	100		
106	38.8	23.1	83.1
51	6.4	0.0	40.1

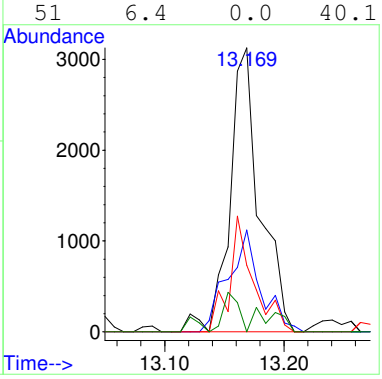


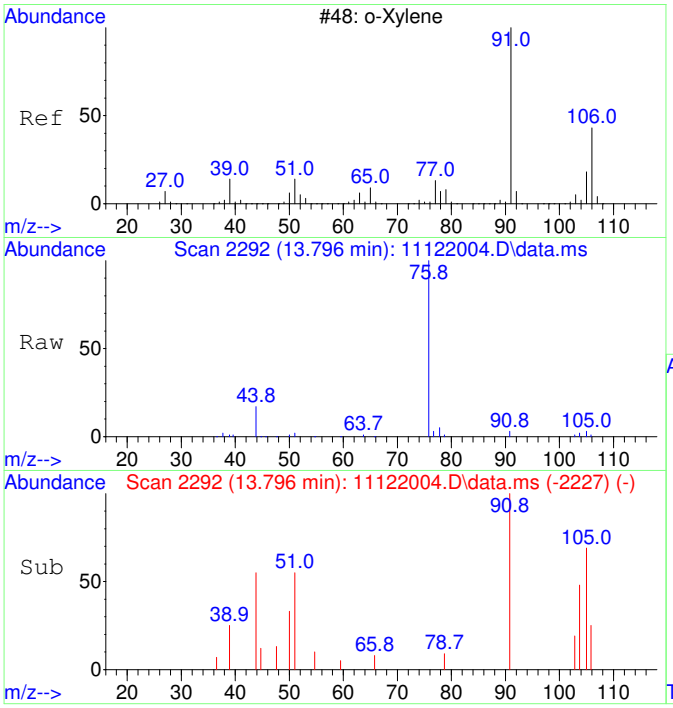


#43
m&p-Xylene SCAN
Concen: 60.75 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5494

Ion	Ratio	Lower	Upper
91	100		
106	38.8	23.1	83.1
105	32.6	0.0	54.7
51	6.4	0.0	40.1

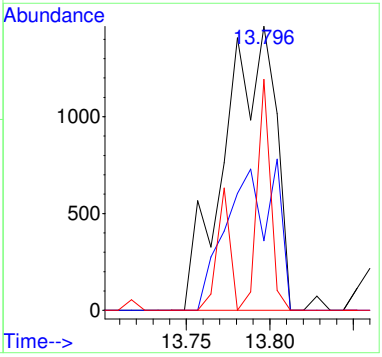


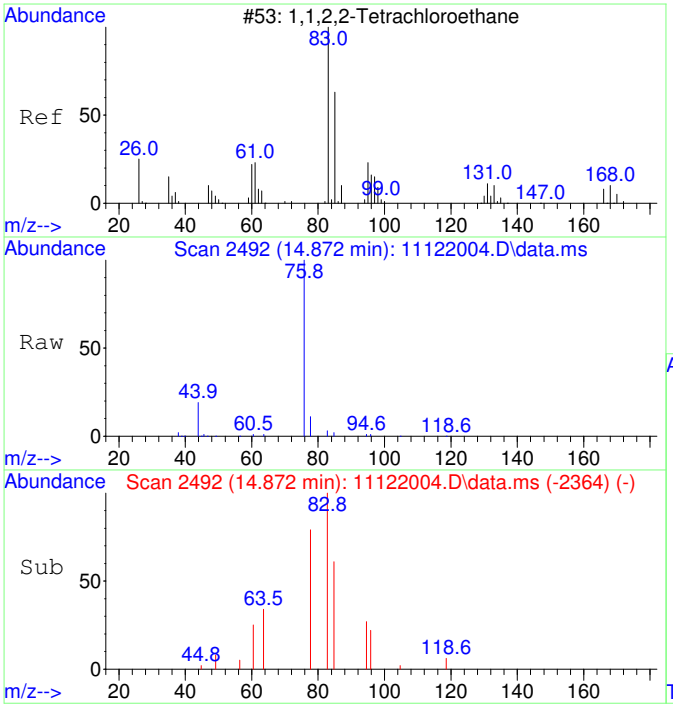


#44
o-Xylene SCAN
Concen: 64.27 ug/L
RT: 13.796 min Scan# 2292
Delta R.T. 0.016 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 3111

Ion	Ratio	Lower	Upper
91	100		
106	48.4	18.0	78.0
105	21.3	0.0	56.6

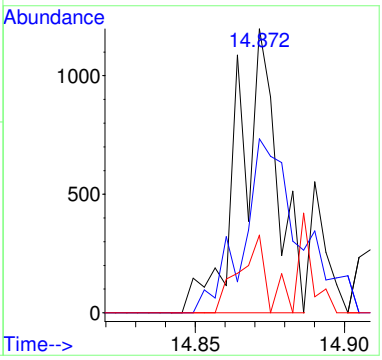


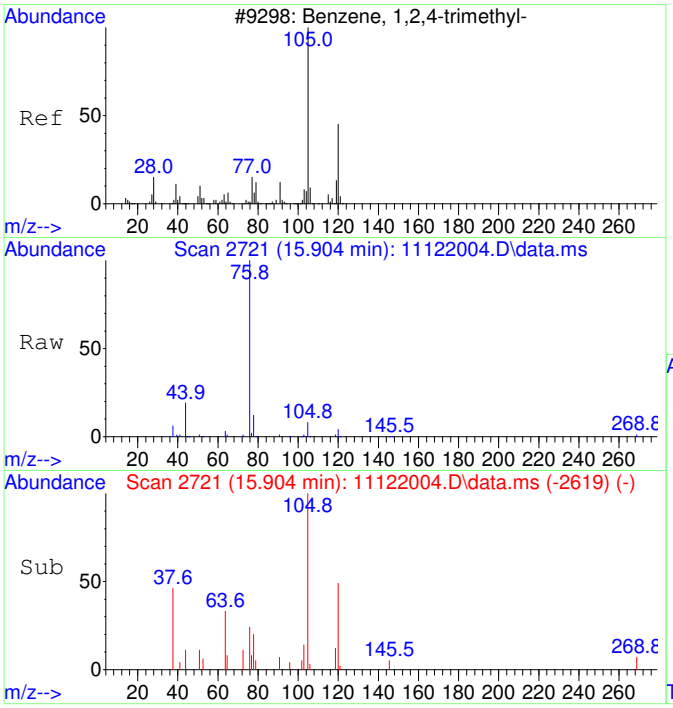


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 46.14 ug/L
RT: 14.872 min Scan# 2492
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 1089

Ion	Ratio	Lower	Upper
83	100		
85	88.7	35.9	95.9
95	17.1	0.0	47.4

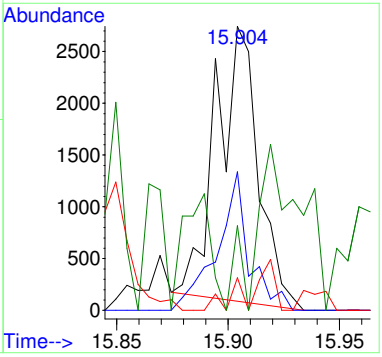


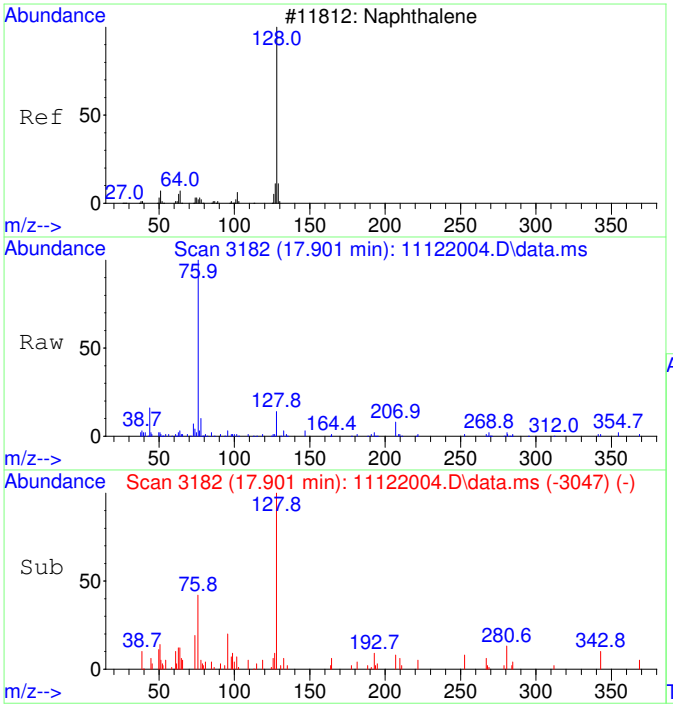


#47
1,2,4-Trimethylbenzene SCAN
Concen: 66.19 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:105 Resp: 3455

Ion	Ratio	Lower	Upper
105	100		
120	38.4	16.9	76.9
119	0.0	0.0	41.9
77	28.1	0.0	42.3

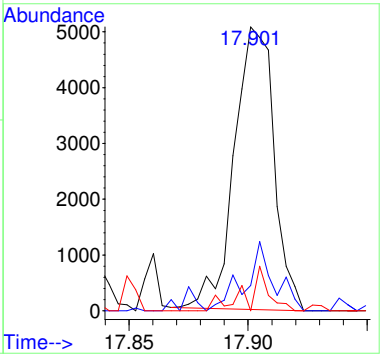




#48
Naphthalene SCAN
Concen: 74.30 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:128 Resp: 5869

Ion	Ratio	Lower	Upper
128	100		
127	17.7	0.0	44.0
129	8.7	0.0	40.8



B20K043-BLK1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122005.D
Acq On : 12 Nov 2020 10:03
InstName : AG5975C
Operator : TD
Sample : B20K043-BLK1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 12 10:22:15 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

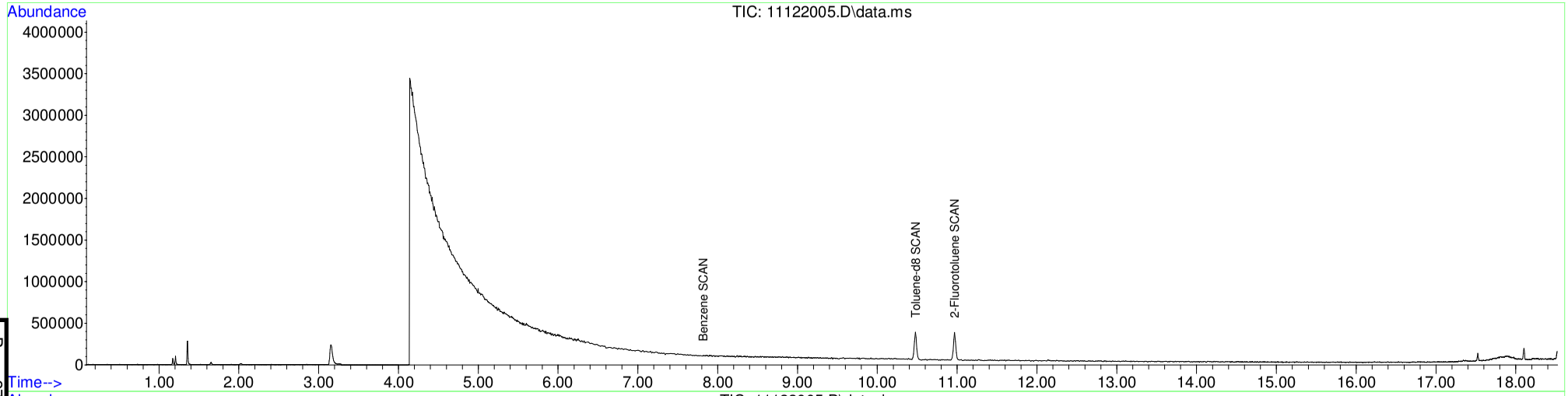
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	499956	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	432418	4418.21	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.36%			
Target Compounds						Qvalue
9] Benzene	7.503	78	4452	52.41	ug/L #	37
25) 2-Fluorotoluene SCAN	10.969	109	259665	5327.94	ug/L	97
33) Benzene SCAN	7.822	78	2861	66.20	ug/L	94
36) Toluene-d8 SCAN	10.475	98	238253	4998.72	ug/L	96

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122005.D
Acq On : 12 Nov 2020 10:03
InstName : AG5975C
Operator : TD
Sample : B20K043-BLK1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 12 10:22:15 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



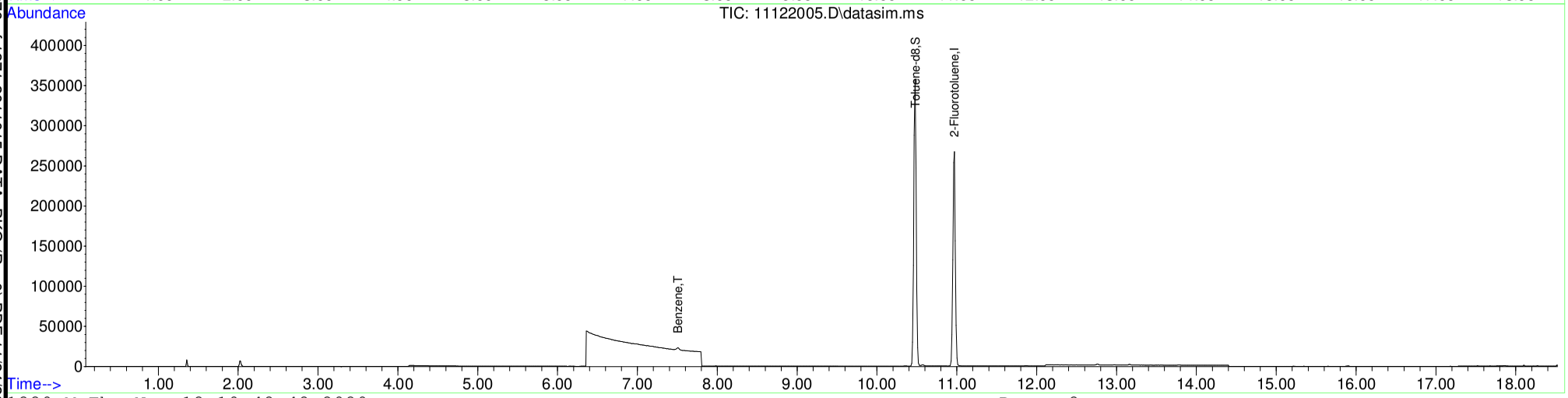
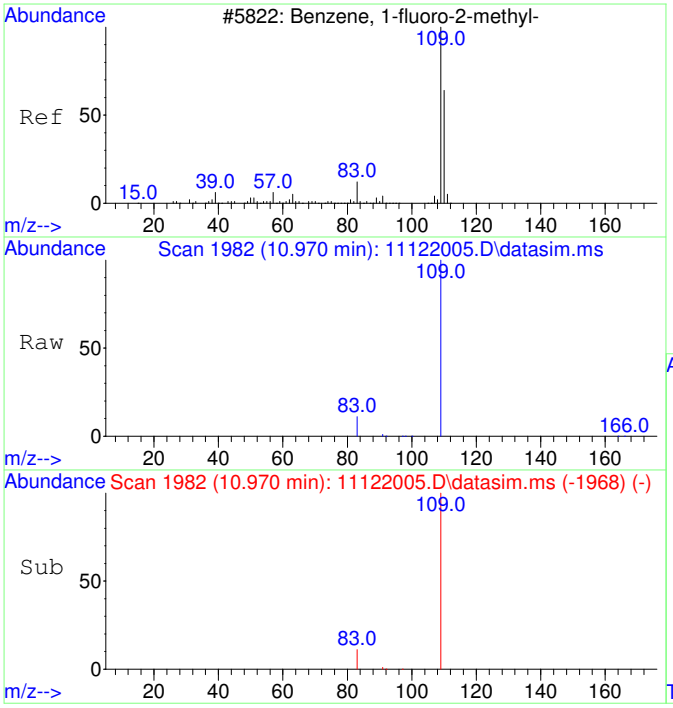


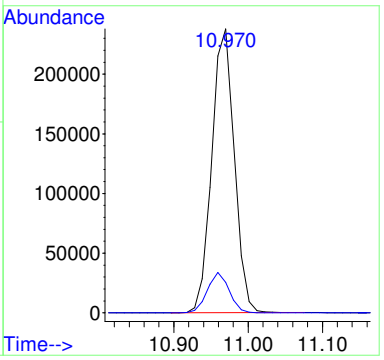
Table of Contents

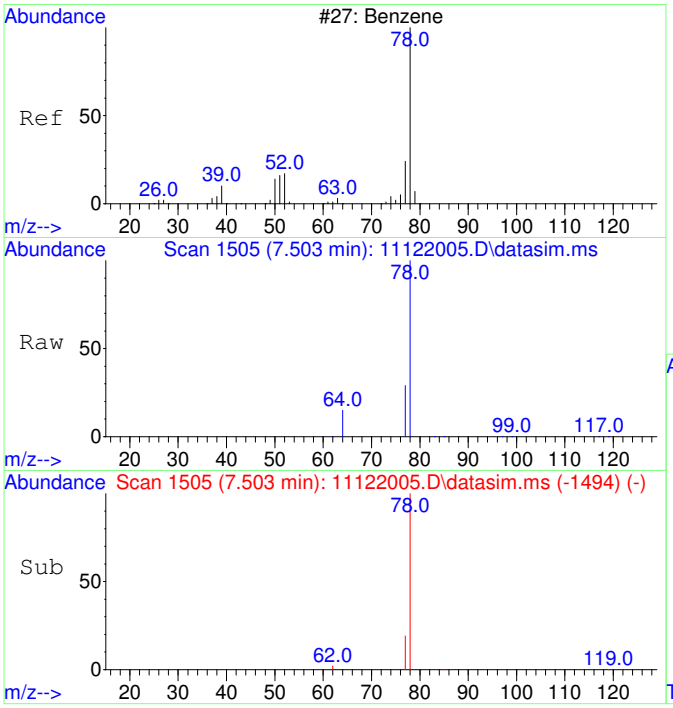


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122005.D
Acq: 12 Nov 2020 10:03

Tgt Ion:109 Resp: 499956

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

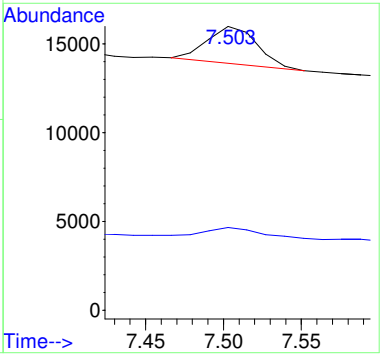


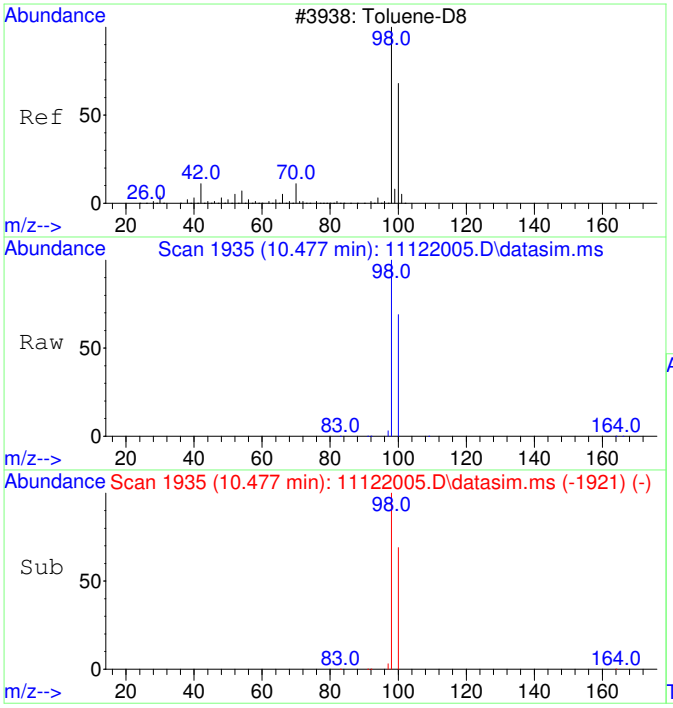


#9
Benzene
Concen: 52.41 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122005.D
Acq: 12 Nov 2020 10:03

Tgt Ion: 78 Resp: 4452

Ion	Ratio	Lower	Upper
78	100		
77	54.0	0.0	53.2#

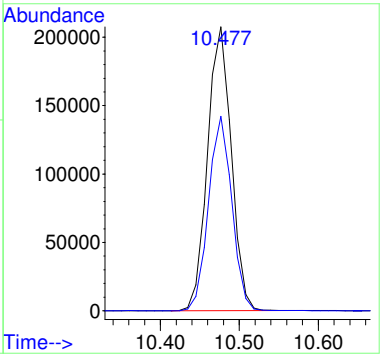


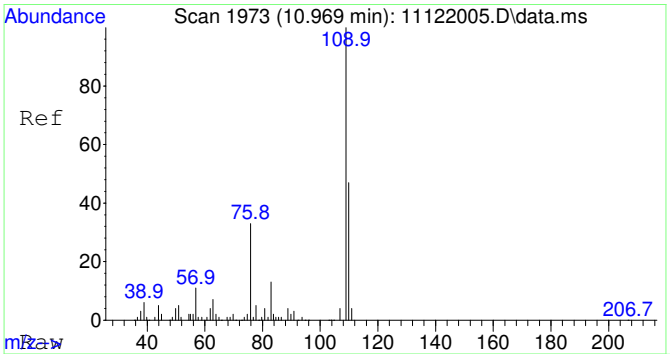


#12
Toluene-d8
Concen: 4418.21 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122005.D
Acq: 12 Nov 2020 10:03

Tgt Ion: 98 Resp: 432418

Ion	Ratio	Lower	Upper
98	100		
100	67.0	37.1	97.1

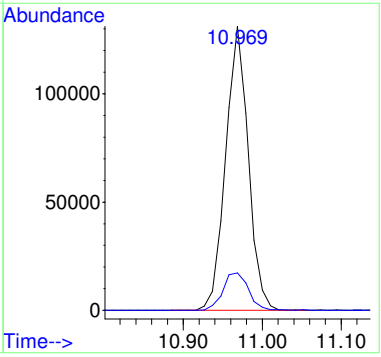


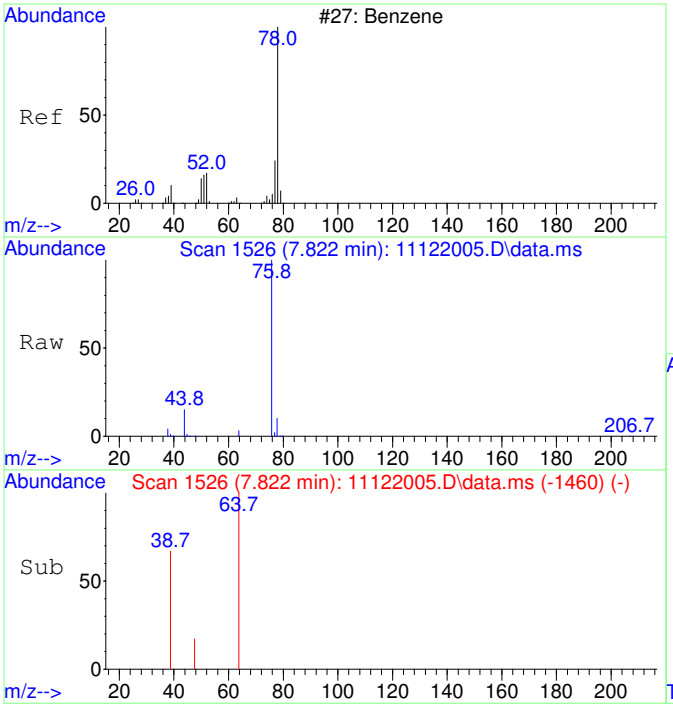


#25
2-Fluorotoluene SCAN
Concen: 5327.94 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122005.D
Acq: 12 Nov 2020 10:03

Tgt Ion:109 Resp: 259665

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	43.8

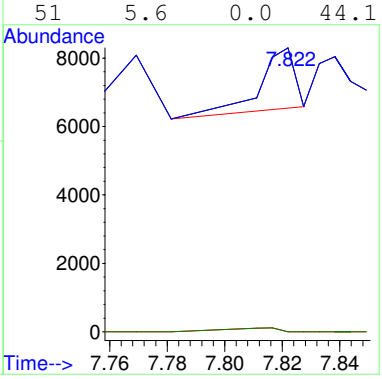


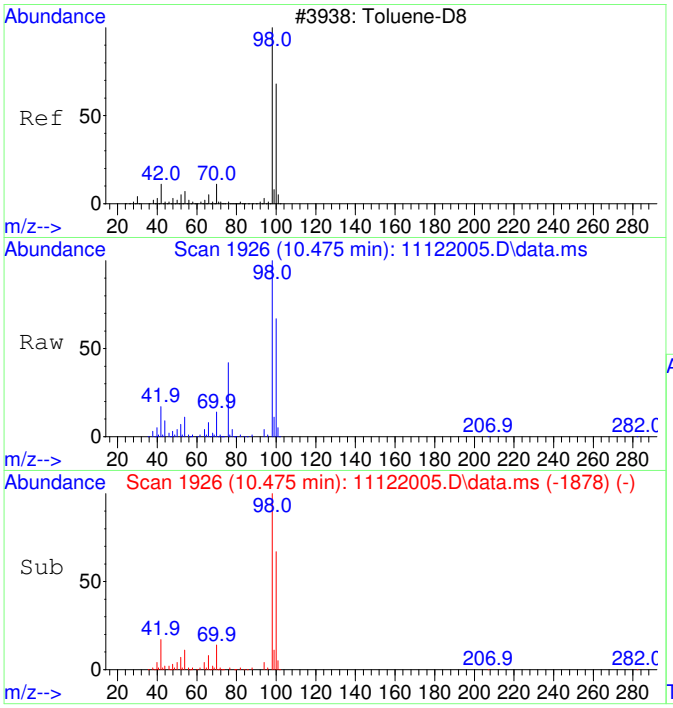


#33
Benzene SCAN
Concen: 66.20 ug/L
RT: 7.822 min Scan# 1526
Delta R.T. 0.308 min
Lab File: 11122005.D
Acq: 12 Nov 2020 10:03

Tgt Ion: 78 Resp: 2861

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	5.6	0.0	47.9
51	5.6	0.0	44.1

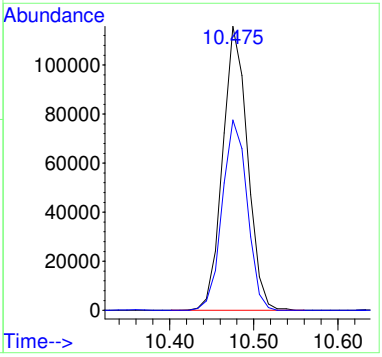




#36
Toluene-d8 SCAN
Concen: 4998.72 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11122005.D
Acq: 12 Nov 2020 10:03

Tgt Ion: 98 Resp: 238253

Ion	Ratio	Lower	Upper
98	100		
100	67.1	40.0	100.0



B20K043-BS1

Blanks Spike or Blank Spike Duplicate

Instrument Name: AG5975C
Sample Name: B20K043-BS1
Misc Info: 0
Date Acquired: 11/12/2020
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**	**4458.20**	**89%**	**22**	**143**	**pass**
3)	**trans-1,2-Dichloroethene**	**4.396**	**5000**	**4348.00**	**87%**	**35**	**133**	**pass**
4)	**1,1-Dichloroethane**	**5.099**	**5000**	**4500.02**	**90%**	**43**	**140**	**pass**
5)	**cis-1,2-Dichloroethene**	**6.094**	**5000**	**4455.02**	**89%**	**49**	**134**	**pass**
6)	**Chloroform**	**6.664**	**5000**	**4327.22**	**87%**	**56**	**132**	**pass**
7)	**1,1,1-Trichloroethane**	**6.919**	**5000**	**4290.80**	**86%**	**58**	**131**	pass
8)	Carbon tetrachloride	7.187	5000	4233.68	85%	60	126	pass
9)	Benzene	7.515	5000	4166.76	83%	63	121	pass
10)	1,2-Dichloroethane	7.552	5000	4332.50	87%	57	128	pass
11)	**Trichloroethene**	**8.569**	**5000**	**4235.49**	**85%**	**69**	**124**	**pass**
12)	Toluene-d8	10.477	5000	4486.12	90%	70	130	pass
13)	Toluene	10.571	5000	4071.01	81%	77	111	pass
14)	1,1,2-Trichloroethane	11.222	5000	4307.62	86%	76	115	pass
15)	**Tetrachloroethene**	**11.421**	**5000**	**4189.29**	**84%**	**69**	**124**	**pass**
16)	Chlorobenzene	12.757	5000	4068.74	81%	64	122	pass
17)	1,1,1,2-Tetrachloroethane	12.908	5000	4357.07	87%	68	130	**pass**
18)	Ethylbenzene	12.964	5000	4290.76	86%	70	130	pass
19)	m&p-Xylene	13.162	10000	8102.81	81%	66	129	pass
20)	o-Xylene	13.774	5000	3912.48	78%	63	121	pass
21)	1,1,2,2-Tetrachloroethane	14.873	5000	4126.36	83%	55	132	pass
22)	1,3,5-Trimethylbenzene	15.345	5000	4202.39	84%	61	140	pass
23)	1,2,4-Trimethylbenzene	15.896	5000	3860.72	77%	54	143	pass
25)	2-Fluorotoluene SCAN	10.969	5000	5351.53	107%	20	110	pass
27)	trans-1,2-Dichloroethene SCAN	4.401	5000	5029.21	101%	83	110	pass
29)	cis-1,2-Dichloroethene SCAN	6.093	5000	5071.77	101%	58	118	pass
31)	1,1,1-Trichloroethane SCAN	6.918	5000	5012.21	100%	59	119	pass
33)	Benzene SCAN	7.514	5000	4848.75	97%	69	129	pass
35)	Trichloroethene SCAN	8.568	5000	4600.07	92%	69	129	pass
37)	Toluene SCAN	10.580	5000	4561.66	91%	66	126	pass
39)	Tetrachloroethene SCAN	11.430	5000	4679.34	94%	59	119	pass
41)	1,1,1,2-Tetrachloroethane SCAN	12.907	5000	4483.21	90%	62	122	pass
43)	m&p-Xylene SCAN	13.161	5000	4605.31	92%	68	128	pass
45)	1,1,2,2-Tetrachloroethane SCAN	14.872	5000	4708.57	94%	63	123	pass
47)	1,2,4-Trimethylbenzene SCAN	15.899	5000	4367.78	87%	20	110	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122006.D
Acq On : 12 Nov 2020 10:27
InstName : AG5975C
Operator : TD
Sample : B20K043-BS1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 12 10:45:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

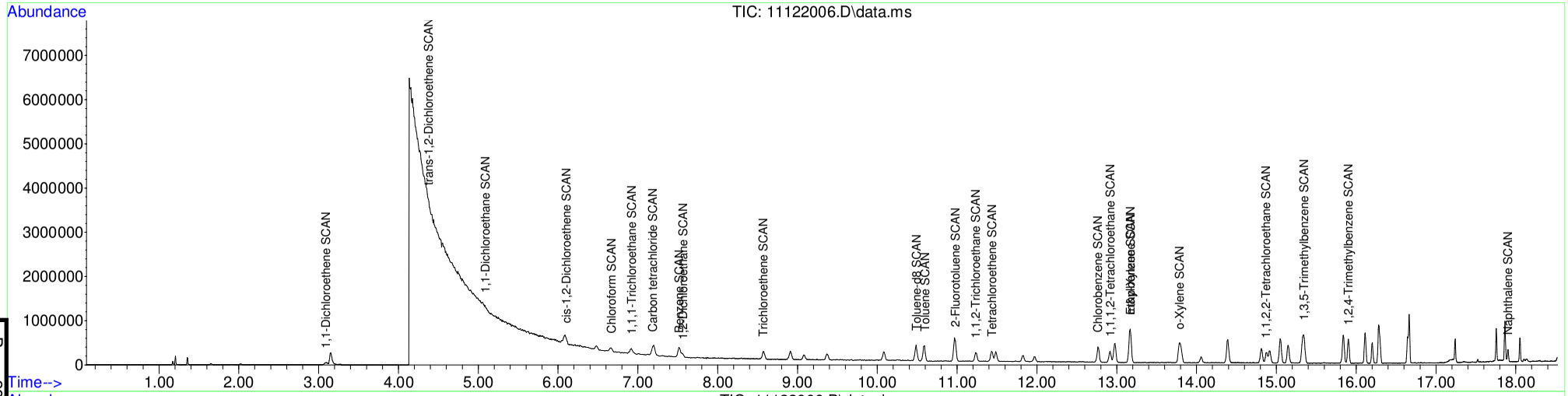
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	526948	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.487	98	462769	4486.12	ug/L	0.01
Spiked Amount 5000.000	Range 86 - 118		Recovery = 89.72%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	93809	4458.20	ug/L	82
3] trans-1,2-Dichloroethene	4.376	61	105705	4348.00	ug/L	98
4] 1,1-Dichloroethane	5.086	63	136183	4500.02	ug/L	98
5] cis-1,2-Dichloroethene	6.088	61	142313	4455.02	ug/L	99
6] Chloroform	6.652	83	141484	4327.22	ug/L	100
7] 1,1,1-Trichloroethane	6.919	97	152360	4290.80	ug/L	99
8] Carbon tetrachloride	7.187	117	141493	4233.68	ug/L	100
9] Benzene	7.515	78	373056	4166.76	ug/L	99
10] 1,2-Dichloroethane	7.552	62	138470	4332.50	ug/L	99
11] Trichloroethene	8.575	130	114175	4235.49	ug/L	93
13] Toluene	10.582	91	535395	4071.01	ug/L	100
14] 1,1,2-Trichloroethane	11.232	97	123443	4307.62	ug/L	96
15] Tetrachloroethene	11.432	166	159444	4189.29	ug/L	100
16] Chlorobenzene	12.765	112	383149	4068.74	ug/L	92
17] 1,1,1,2-Tetrachloroethane	12.916	131	147019	4357.07	ug/L	99
18] Ethylbenzene	12.972	91	686866	4290.76	ug/L	98
19] m&p-Xylene	13.162	91	1013765	8102.81	ug/L	97
20] o-Xylene	13.782	91	522969	3912.48	ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.877	83	244446	4126.36	ug/L	100
22] 1,3,5-Trimethylbenzene	15.345	105	597885	4202.39	ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	570531	3860.72	ug/L	97
24] Naphthalene	17.902	128	255530	1094.05	ug/L	99
25) 2-Fluorotoluene SCAN	10.979	109	274896	5351.53	ug/L	97
26) 1,1-Dichloroethene SCAN	3.092	61	56229	5154.38	ug/L #	70
27) trans-1,2-Dichloroethe...	4.374	61	67890	5029.21	ug/L	75
28) 1,1-Dichloroethane SCAN	5.091	63	82268	5265.95	ug/L	95
29) cis-1,2-Dichloroethene...	6.100	61	84892	5071.77	ug/L #	74
30) Chloroform SCAN	6.662	83	77891	4290.37	ug/L	89
31) 1,1,1-Trichloroethane ...	6.918	97	82923	5012.21	ug/L	88
32) Carbon tetrachloride SCAN	7.185	117	72750	4215.58	ug/L	91
33) Benzene SCAN	7.514	78	220872	4848.75	ug/L	96
34) 1,2-Dichloroethane SCAN	7.563	62	85101	5059.41	ug/L	95
35) Trichloroethene SCAN	8.573	130	57584	4600.07	ug/L	80
36) Toluene-d8 SCAN	10.486	98	253421	5044.60	ug/L	94
37) Toluene SCAN	10.591	91	293473	4561.66	ug/L	97
38) 1,1,2-Trichloroethane ...	11.231	97	72066	4990.57	ug/L	92
39) Tetrachloroethene SCAN	11.430	166	72325	4679.34	ug/L	92
40) Chlorobenzene SCAN	12.764	112	193528	4402.23	ug/L	87
41) 1,1,1,2-Tetrachloroeth...	12.915	131	72938	4483.21	ug/L	95
42) Ethylbenzene SCAN	13.169	91	539773	4605.31	ug/L	91
43) m&p-Xylene SCAN	13.169	91	539773	4605.31	ug/L	92
44) o-Xylene SCAN	13.781	91	282688	4505.86	ug/L	93
45) 1,1,2,2-Tetrachloroeth...	14.872	83	144044	4708.57	ug/L	98
46) 1,3,5-Trimethylbenzene...	15.343	105	305618	4622.22	ug/L	98
47) 1,2,4-Trimethylbenzene...	15.904	105	295501	4367.78	ug/L	95
48) Naphthalene SCAN	17.901	128	120520	1177.27	ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122006.D
Acq On : 12 Nov 2020 10:27
InstName : AG5975C
Operator : TD
Sample : B20K043-BS1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 12 10:45:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



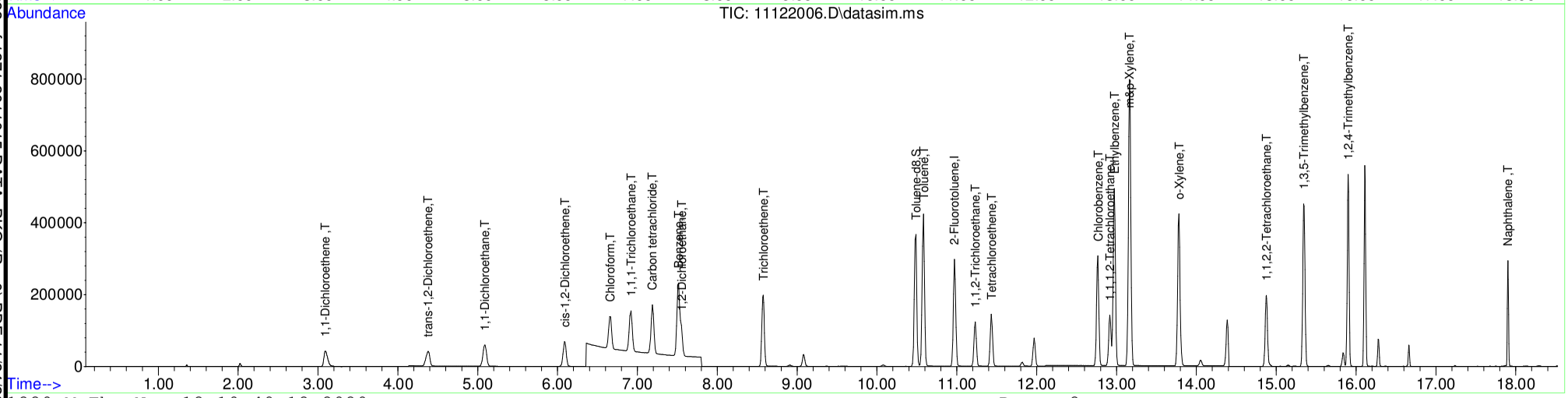


Table of Contents

B20K043-BSD1

Blanks Spike or Blank Spike Duplicate

Instrument Name: AG5975C
Sample Name: B20K043-BSD1
Misc Info: 0
Date Acquired: 11/12/2020
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**	**5042.74**	**101%**	**22**	**143**	**pass**
3)	**trans-1,2-Dichloroethene**	**4.396**	**5000**	**4880.78**	**98%**	**35**	**133**	**pass**
4)	**1,1-Dichloroethane**	**5.099**	**5000**	**5069.41**	**101%**	**43**	**140**	**pass**
5)	**cis-1,2-Dichloroethene**	**6.094**	**5000**	**4928.75**	**99%**	**49**	**134**	**pass**
6)	**Chloroform**	**6.664**	**5000**	**4783.92**	**96%**	**56**	**132**	**pass**
7)	**1,1,1-Trichloroethane**	**6.919**	**5000**	**4663.94**	**93%**	**58**	**131**	pass
8)	Carbon tetrachloride	7.187	5000	4524.14	90%	60	126	pass
9)	Benzene	7.515	5000	4398.63	88%	63	121	pass
10)	1,2-Dichloroethane	7.552	5000	4685.81	94%	57	128	pass
11)	**Trichloroethene**	**8.569**	**5000**	**4391.26**	**88%**	**69**	**124**	**pass**
12)	Toluene-d8	10.477	5000	4478.73	90%	70	130	pass
13)	Toluene	10.571	5000	4058.39	81%	77	111	pass
14)	1,1,2-Trichloroethane	11.222	5000	4342.91	87%	76	115	pass
15)	**Tetrachloroethene**	**11.421**	**5000**	**4152.41**	**83%**	**69**	**124**	**pass**
16)	Chlorobenzene	12.757	5000	3973.22	79%	64	122	pass
17)	1,1,1,2-Tetrachloroethane	12.908	5000	4320.30	86%	68	130	**pass**
18)	Ethylbenzene	12.964	5000	4246.25	85%	70	130	pass
19)	m&p-Xylene	13.162	10000	8010.25	80%	66	129	pass
20)	o-Xylene	13.774	5000	3830.93	77%	63	121	pass
21)	1,1,2,2-Tetrachloroethane	14.873	5000	4053.52	81%	55	132	pass
22)	1,3,5-Trimethylbenzene	15.345	5000	4155.53	83%	61	140	pass
23)	1,2,4-Trimethylbenzene	15.896	5000	3804.34	76%	54	143	pass
25)	2-Fluorotoluene SCAN	10.969	5000	5269.18	105%	20	110	pass
27)	trans-1,2-Dichloroethene SCAN	4.401	5000	4917.84	98%	83	110	pass
29)	cis-1,2-Dichloroethene SCAN	6.093	5000	5836.03	117%	58	118	pass
31)	1,1,1-Trichloroethane SCAN	6.918	5000	5141.36	103%	59	119	pass
33)	Benzene SCAN	7.514	5000	5525.17	111%	69	129	pass
35)	Trichloroethene SCAN	8.568	5000	4814.68	96%	69	129	pass
37)	Toluene SCAN	10.580	5000	4484.45	90%	66	126	pass
39)	Tetrachloroethene SCAN	11.430	5000	5096.59	102%	59	119	pass
41)	1,1,1,2-Tetrachloroethane SCAN	12.907	5000	4533.58	91%	62	122	pass
43)	m&p-Xylene SCAN	13.161	5000	4594.64	92%	68	128	pass
45)	1,1,2,2-Tetrachloroethane SCAN	14.872	5000	4478.81	90%	63	123	pass
47)	1,2,4-Trimethylbenzene SCAN	15.899	5000	4180.53	84%	20	110	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122007.D
Acq On : 12 Nov 2020 10:50
InstName : AG5975C
Operator : TD
Sample : B20K043-BSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 12 11:09:31 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

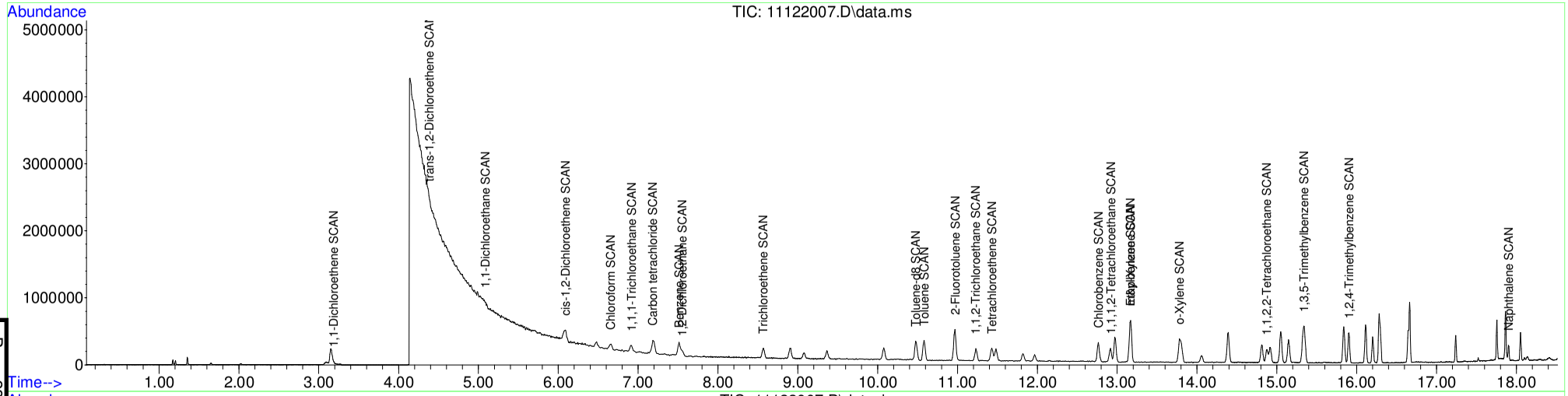
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	444234	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	389486	4478.73 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 89.57%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.093	61	89453	5042.74 ug/L	82
3] trans-1,2-Dichloroethene	4.376	61	100032	4880.78 ug/L	98
4] 1,1-Dichloroethane	5.086	63	129333	5069.41 ug/L	98
5] cis-1,2-Dichloroethene	6.088	61	132732	4928.75 ug/L	99
6] Chloroform	6.652	83	131864	4783.92 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	139614	4663.94 ug/L	99
8] Carbon tetrachloride	7.187	117	127467	4524.14 ug/L	100
9] Benzene	7.503	78	331999	4398.63 ug/L	99
10] 1,2-Dichloroethane	7.539	62	126254	4685.81 ug/L	100
11] Trichloroethene	8.569	130	99793	4391.26 ug/L	93
13] Toluene	10.571	91	449956	4058.39 ug/L	100
14] 1,1,2-Trichloroethane	11.222	97	104919	4342.91 ug/L	97
15] Tetrachloroethene	11.432	166	133233	4152.41 ug/L	100
16] Chlorobenzene	12.765	112	315424	3973.22 ug/L	92
17] 1,1,1,2-Tetrachloroethane	12.916	131	122896	4320.30 ug/L	100
18] Ethylbenzene	12.972	91	573043	4246.25 ug/L	98
19] m&p-Xylene	13.162	91	844874	8010.25 ug/L	97
20] o-Xylene	13.774	91	431690	3830.93 ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.873	83	202438	4053.52 ug/L	100
22] 1,3,5-Trimethylbenzene	15.343	105	498416	4155.53 ug/L	97
23] 1,2,4-Trimethylbenzene	15.899	105	473952	3804.34 ug/L	97
24] Naphthalene	17.902	128	199288	1012.12 ug/L	99
25) 2-Fluorotoluene SCAN	10.969	109	228180	5269.18 ug/L	93
26) 1,1-Dichloroethene SCAN	3.189	61	273	29.68 ug/L	77
27) trans-1,2-Dichloroethe...	4.381	61	55966	4917.84 ug/L	82
28) 1,1-Dichloroethane SCAN	5.091	63	76929	5841.06 ug/L #	87
29) cis-1,2-Dichloroethene...	6.086	61	82351	5836.03 ug/L #	70
30) Chloroform SCAN	6.650	83	76478	4996.89 ug/L	96
31) 1,1,1-Trichloroethane ...	6.918	97	71708	5141.36 ug/L	88
32) Carbon tetrachloride SCAN	7.185	117	65663	4513.37 ug/L	89
33) Benzene SCAN	7.514	78	212178	5525.17 ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	76632	5404.20 ug/L	94
35) Trichloroethene SCAN	8.568	130	50810	4814.68 ug/L	86
36) Toluene-d8 SCAN	10.475	98	215092	5078.84 ug/L	96
37) Toluene SCAN	10.580	91	243220	4484.45 ug/L	96
38) 1,1,2-Trichloroethane ...	11.231	97	57784	4746.61 ug/L	89
39) Tetrachloroethene SCAN	11.430	166	66409	5096.59 ug/L	94
40) Chlorobenzene SCAN	12.764	112	157416	4247.50 ug/L	89
41) 1,1,1,2-Tetrachloroeth...	12.915	131	62180	4533.58 ug/L	95
42) Ethylbenzene SCAN	13.169	91	453992	4594.64 ug/L	91
43) m&p-Xylene SCAN	13.169	91	453992	4594.64 ug/L	92
44) o-Xylene SCAN	13.781	91	228501	4320.30 ug/L	92
45) 1,1,2,2-Tetrachloroeth...	14.872	83	115508	4478.81 ug/L	100
46) 1,3,5-Trimethylbenzene...	15.342	105	255828	4589.61 ug/L	96
47) 1,2,4-Trimethylbenzene...	15.903	105	238437	4180.53 ug/L	97
48) Naphthalene SCAN	17.901	128	95803	1110.07 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122007.D
Acq On : 12 Nov 2020 10:50
InstName : AG5975C
Operator : TD
Sample : B20K043-BSD1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 12 11:09:31 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



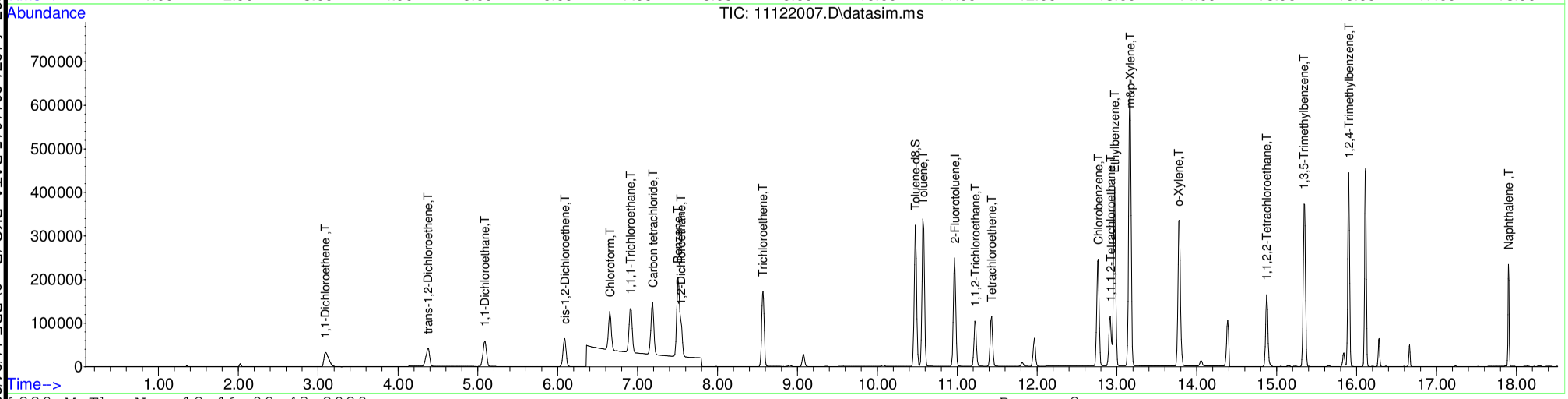


Table of Contents

B20K043-MRL1

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122008.D
Acq On : 12 Nov 2020 11:14
InstName : AG5975C
Operator : TD
Sample : B20K043-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 12 11:33:05 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

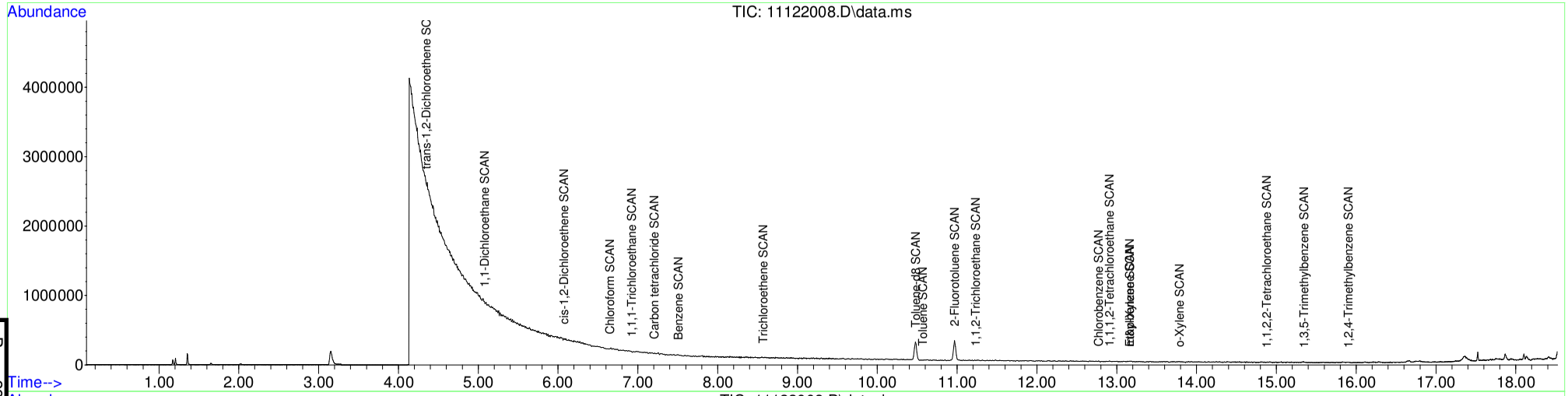
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	423133	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	366672	4426.65	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.53%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	1128	66.76	ug/L #	42
3] trans-1,2-Dichloroethene	4.362	61	852	43.64	ug/L	75
4] 1,1-Dichloroethane	5.079	63	1075	44.24	ug/L	74
5] cis-1,2-Dichloroethene	6.081	61	1129	44.01	ug/L	100
6] Chloroform	6.652	83	1395	53.13	ug/L	98
7] 1,1,1-Trichloroethane	6.907	97	1247	43.73	ug/L	99
8] Carbon tetrachloride	7.175	117	1150	42.85	ug/L	97
9] Benzene	7.503	78	6781	94.32	ug/L	46
10] 1,2-Dichloroethane	7.539	62	1132	44.11	ug/L #	1
11] Trichloroethene	8.569	130	980	45.27	ug/L	93
13] Toluene	10.571	91	5597	53.00	ug/L	98
14] 1,1,2-Trichloroethane	11.222	97	1004	43.63	ug/L	93
15] Tetrachloroethene	11.432	166	1349	44.14	ug/L	99
16] Chlorobenzene	12.765	112	4650	61.49	ug/L	83
17] 1,1,1,2-Tetrachloroethane	12.916	131	1264	46.65	ug/L	95
18] Ethylbenzene	12.972	91	6801	52.91	ug/L	95
19] m&p-Xylene	13.162	91	10416	103.68	ug/L	95
20] o-Xylene	13.782	91	4912	45.76	ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.877	83	2142	45.03	ug/L	99
22] 1,3,5-Trimethylbenzene	15.345	105	5787	50.66	ug/L	93
23] 1,2,4-Trimethylbenzene	15.901	105	6128	51.64	ug/L	92
25) 2-Fluorotoluene SCAN	10.969	109	220361	5342.39	ug/L	97
27) trans-1,2-Dichloroethe...	4.348	61	603	55.63	ug/L #	35
28) 1,1-Dichloroethane SCAN	5.078	63	572	45.60	ug/L #	72
29) cis-1,2-Dichloroethene...	6.073	61	725	53.94	ug/L #	32
30) Chloroform SCAN	6.650	83	577	39.58	ug/L #	1
31) 1,1,1-Trichloroethane ...	6.918	97	582	43.81	ug/L #	55
32) Carbon tetrachloride SCAN	7.198	117	433	31.25	ug/L #	23
33) Benzene SCAN	7.502	78	12158	332.39	ug/L	92
35) Trichloroethene SCAN	8.568	130	678	67.45	ug/L #	32
36) Toluene-d8 SCAN	10.475	98	191185	4739.46	ug/L	99
37) Toluene SCAN	10.570	91	3110	60.20	ug/L	93
38) 1,1,2-Trichloroethane ...	11.231	97	595	51.31	ug/L #	49
40) Chlorobenzene SCAN	12.772	112	2513	71.19	ug/L #	86
41) 1,1,1,2-Tetrachloroeth...	12.907	131	401	30.70	ug/L #	54
42) Ethylbenzene SCAN	13.161	91	6775	71.99	ug/L	87
43) m&p-Xylene SCAN	13.161	91	6775	71.99	ug/L	85
44) o-Xylene SCAN	13.781	91	3828	75.99	ug/L	84
45) 1,1,2,2-Tetrachloroeth...	14.875	83	1201	48.89	ug/L #	63
46) 1,3,5-Trimethylbenzene...	15.343	105	3084	58.09	ug/L	79
47) 1,2,4-Trimethylbenzene...	15.904	105	3497	64.37	ug/L #	71

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122008.D
Acq On : 12 Nov 2020 11:14
InstName : AG5975C
Operator : TD
Sample : B20K043-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 12 11:33:05 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



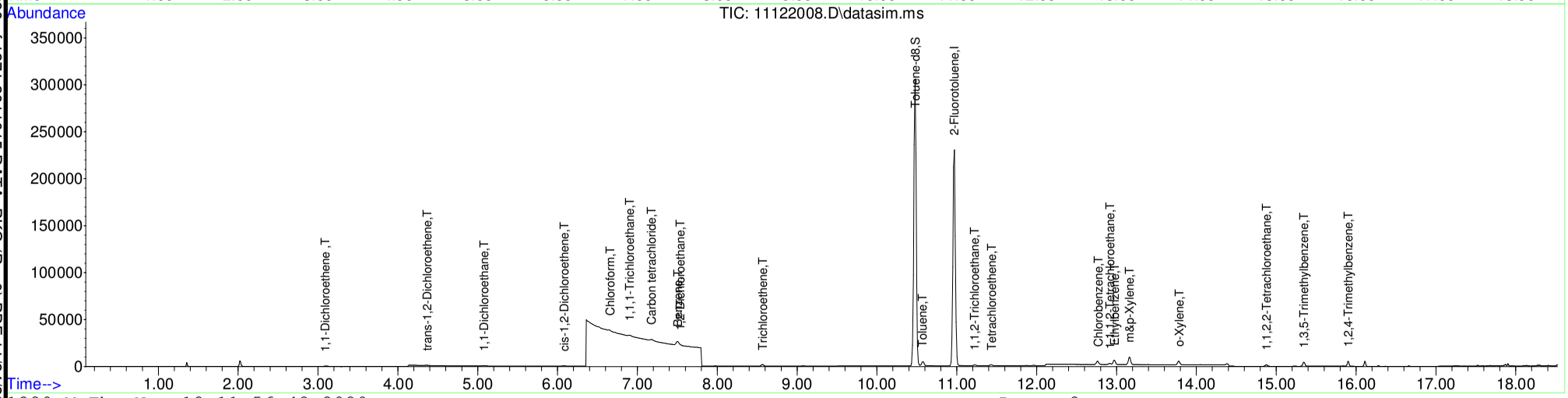
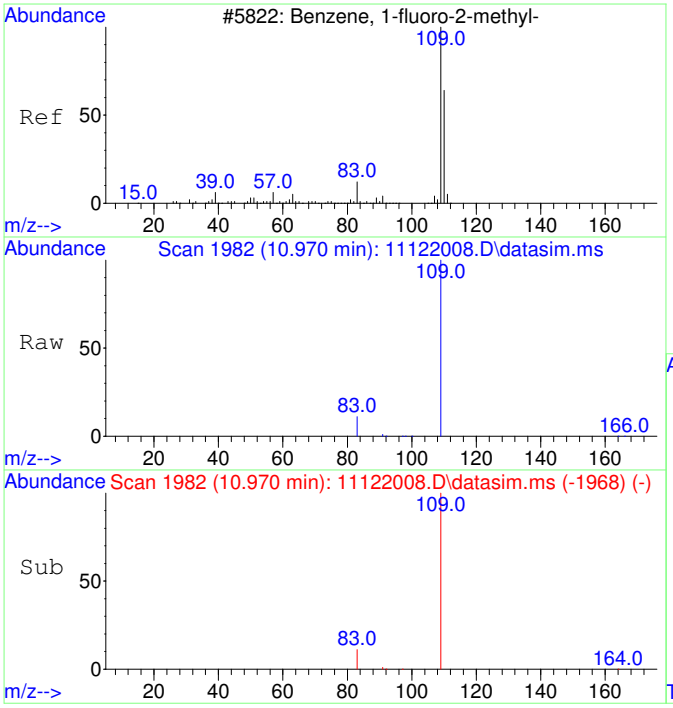


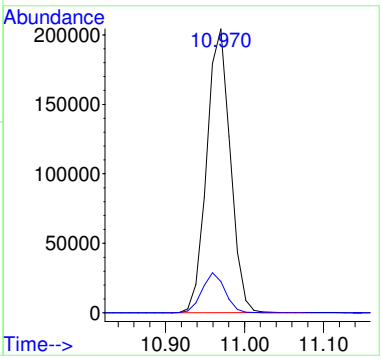
Table of Contents

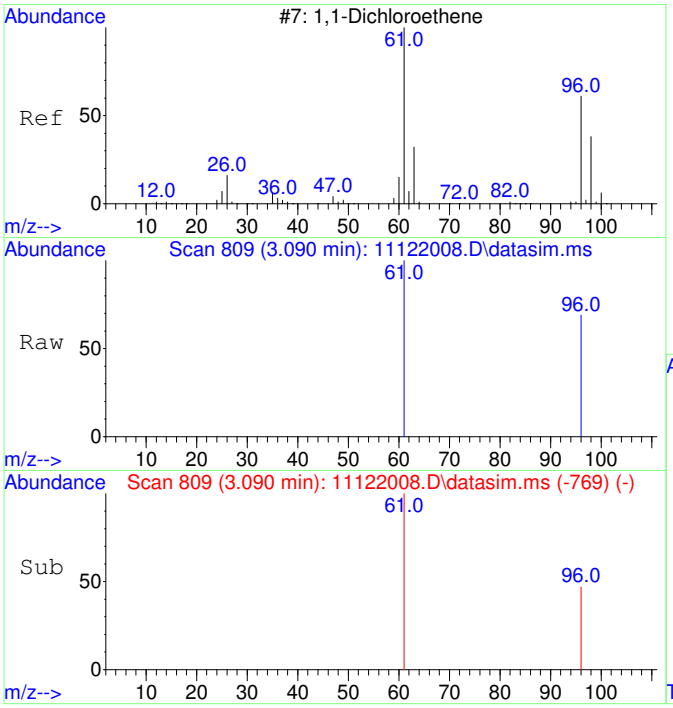


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:109 Resp: 423133

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

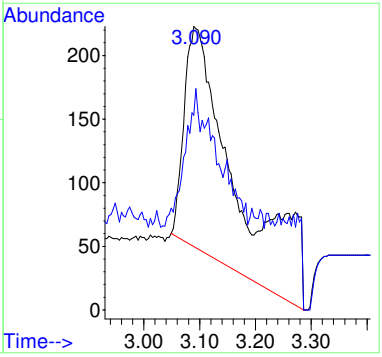




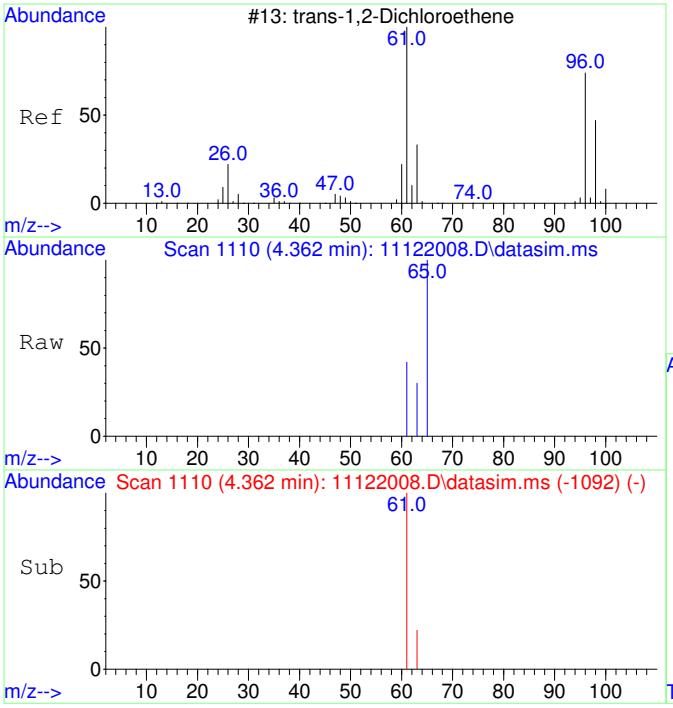
#2
1,1-Dichloroethene
Concen: 66.76 ug/L
RT: 3.090 min Scan# 809
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 1128

Ion	Ratio	Lower	Upper
61	100		
96	20.7	37.2	97.2#



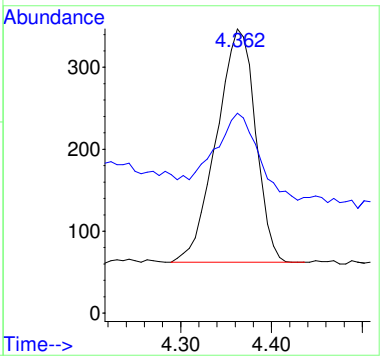
Before MI:
IMPROPER
BASELINE

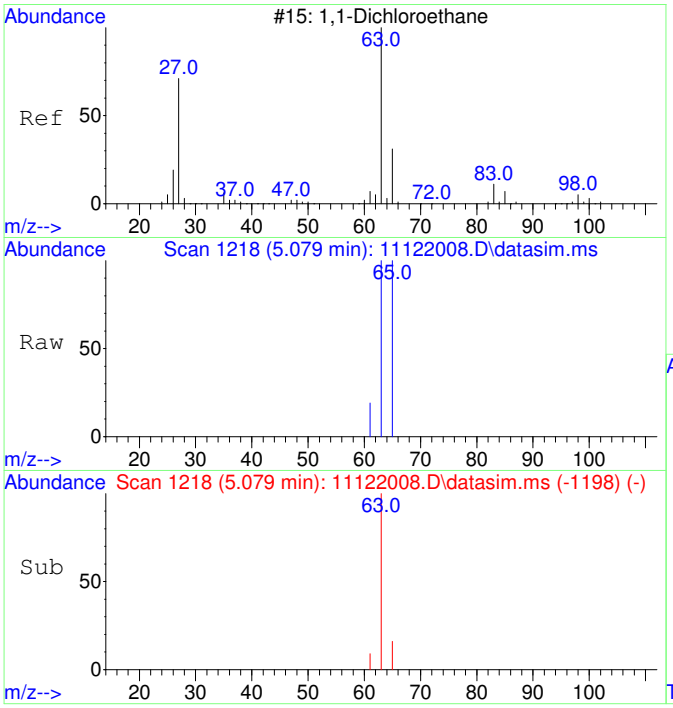


#3
trans-1,2-Dichloroethene
Concen: 43.64 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. -0.033 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 852

Ion	Ratio	Lower	Upper
61	100		
63	46.4	2.4	62.4

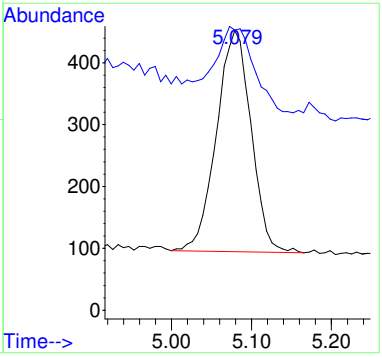


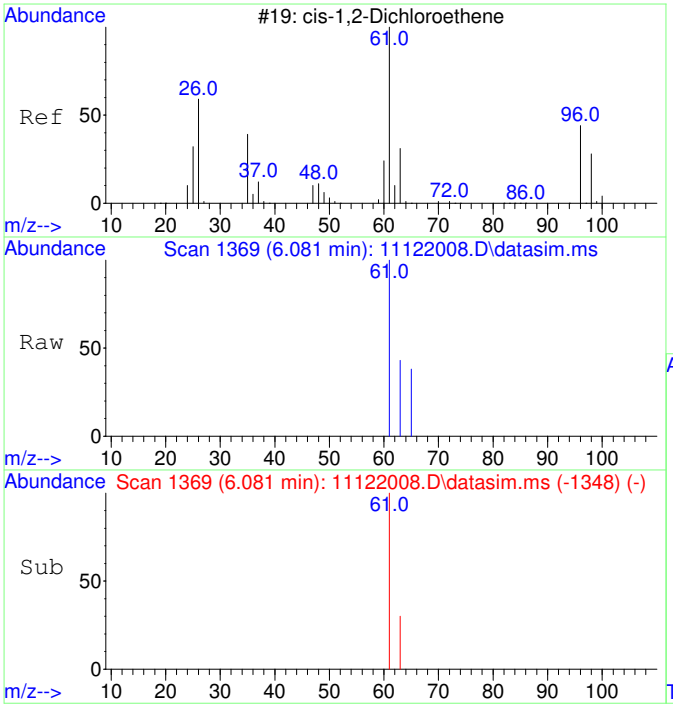


#4
1,1-Dichloroethane
Concen: 44.24 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 63 Resp: 1075

Ion	Ratio	Lower	Upper
63	100		
65	46.4	1.8	61.8

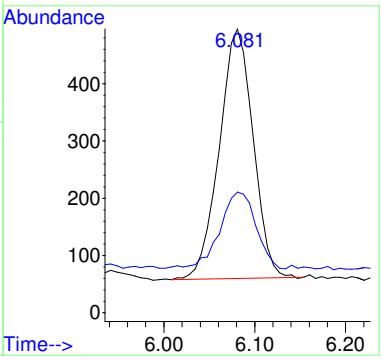


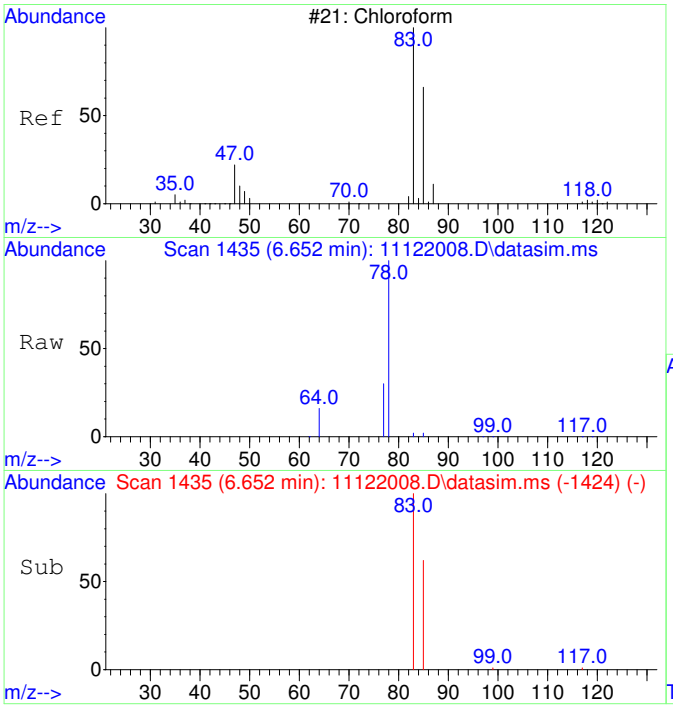


#5
cis-1,2-Dichloroethene
Concen: 44.01 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 1129

Ion	Ratio	Lower	Upper
61	100		
63	32.4	2.5	62.5

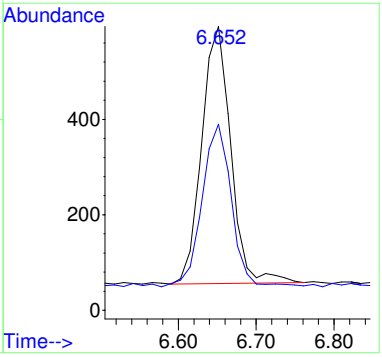


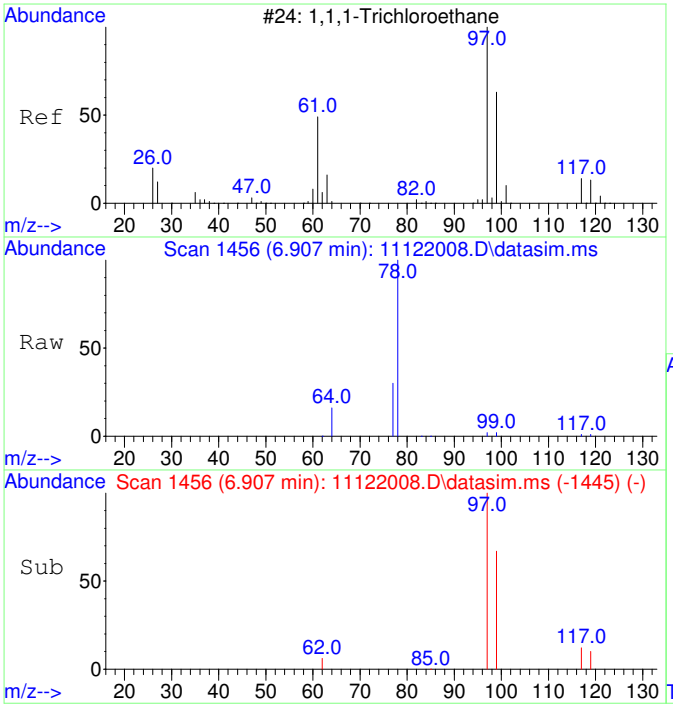


#6
Chloroform
Concen: 53.13 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 1395

Ion	Ratio	Lower	Upper
83	100		
85	63.2	35.1	95.1

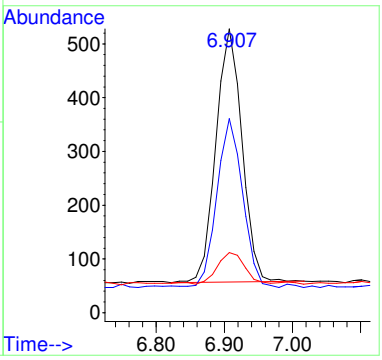


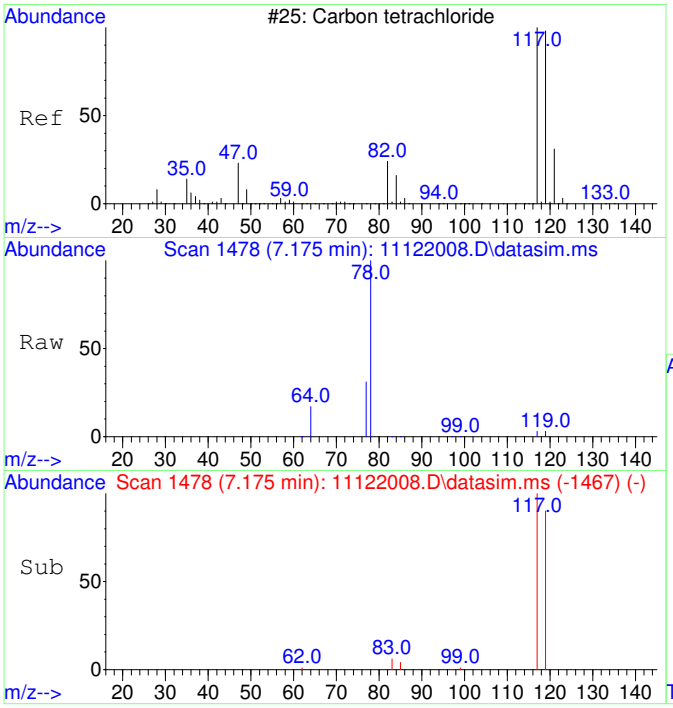


#7
1,1,1-Trichloroethane
Concen: 43.73 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 1247

Ion	Ratio	Lower	Upper
97	100		
99	65.3	34.6	94.6
117	13.2	0.0	43.2

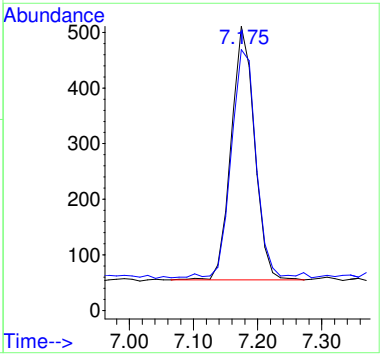


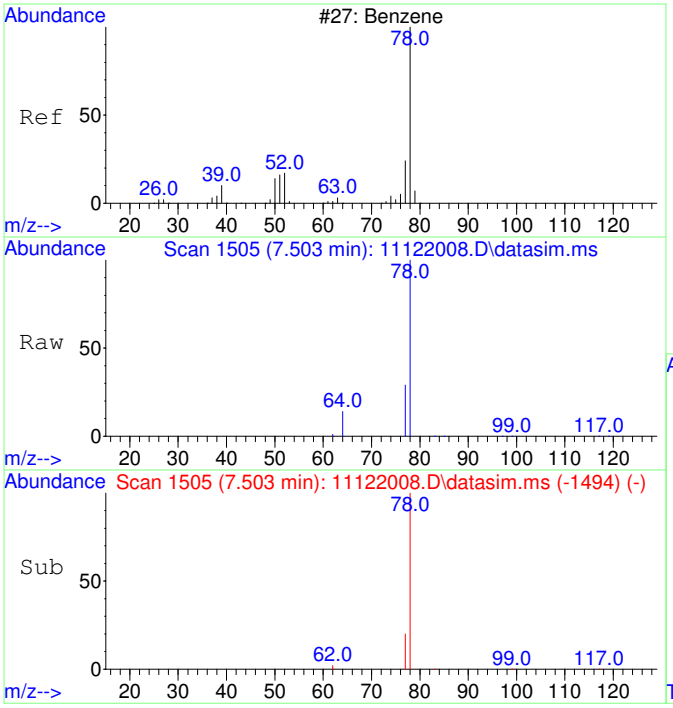


#8
Carbon tetrachloride
Concen: 42.85 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:117 Resp: 1150

Ion	Ratio	Lower	Upper
117	100		
119	93.6	66.4	126.4

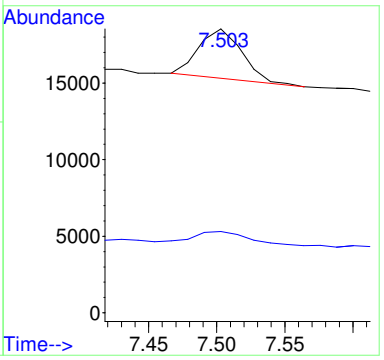


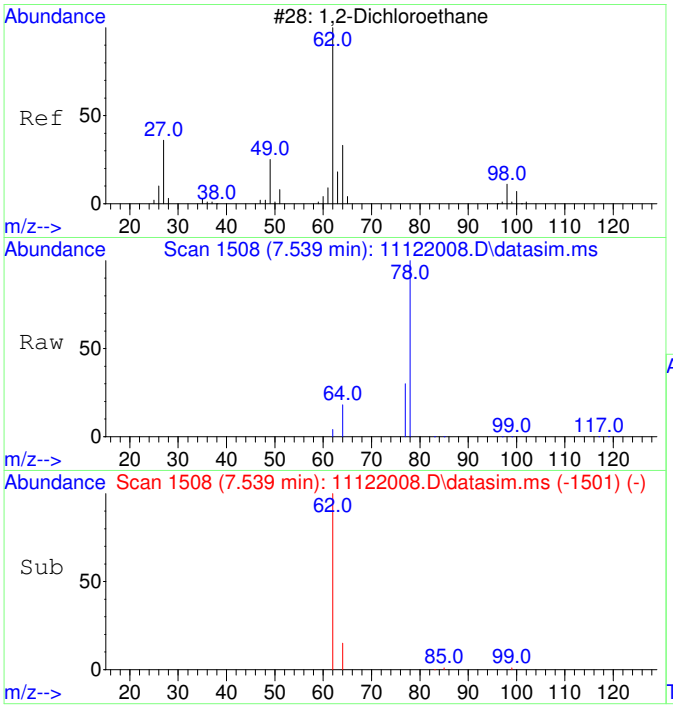


#9
Benzene
Concen: 94.32 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 78 Resp: 6781

Ion	Ratio	Lower	Upper
78	100		
77	49.5	0.0	53.2

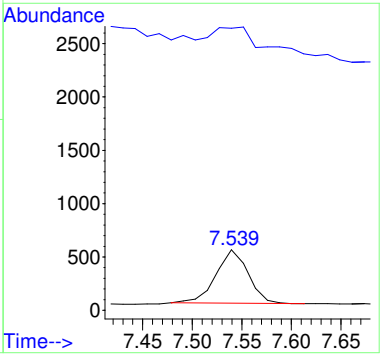


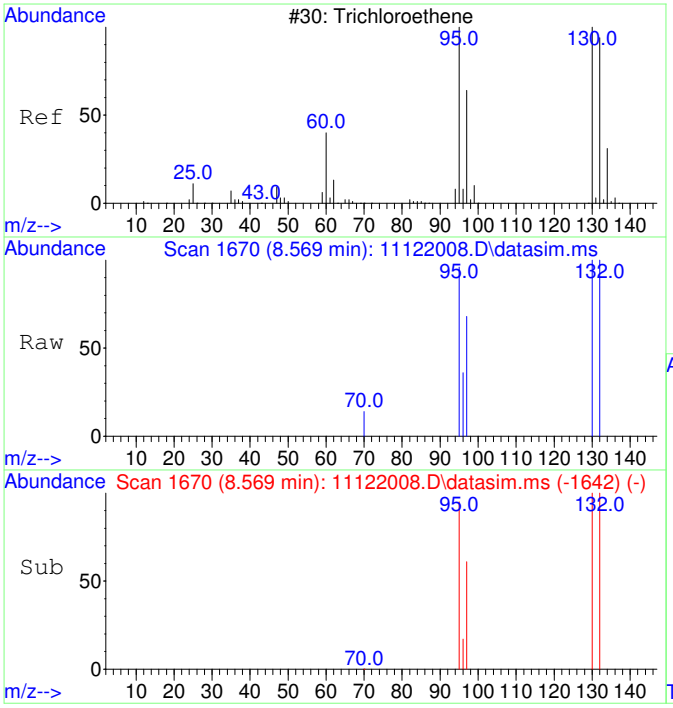


#10
1,2-Dichloroethane
Concen: 44.11 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 62 Resp: 1132

Ion	Ratio	Lower	Upper
62	100		
64	110.9	2.3	62.3#

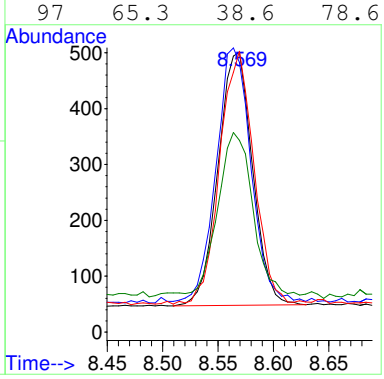


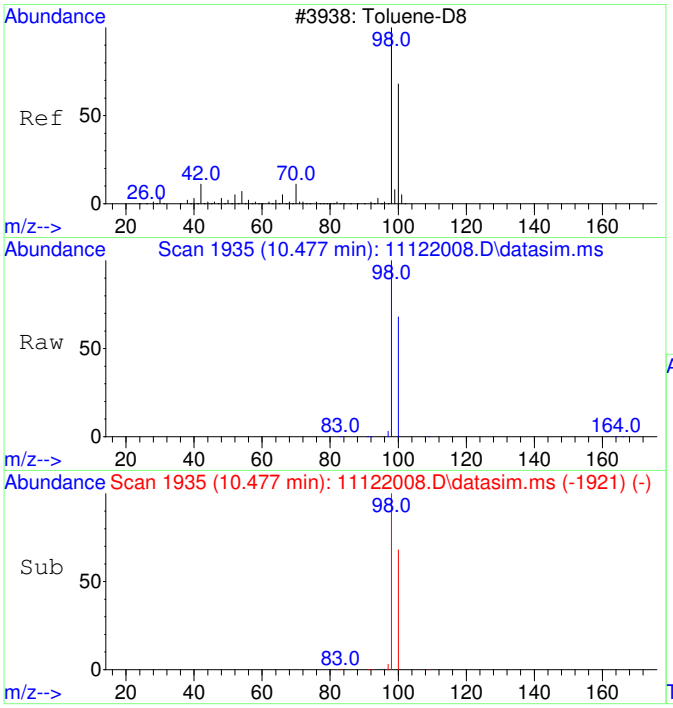


#11
Trichloroethene
Concen: 45.27 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:130 Resp: 980

Ion	Ratio	Lower	Upper
130	100		
95	100.6	60.7	120.7
132	98.1	76.0	116.0
97	65.3	38.6	78.6

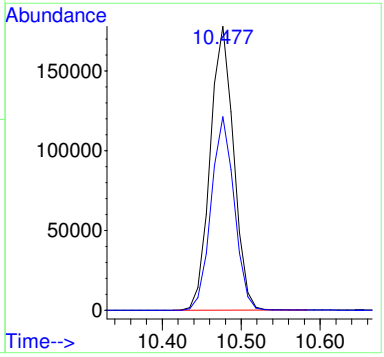


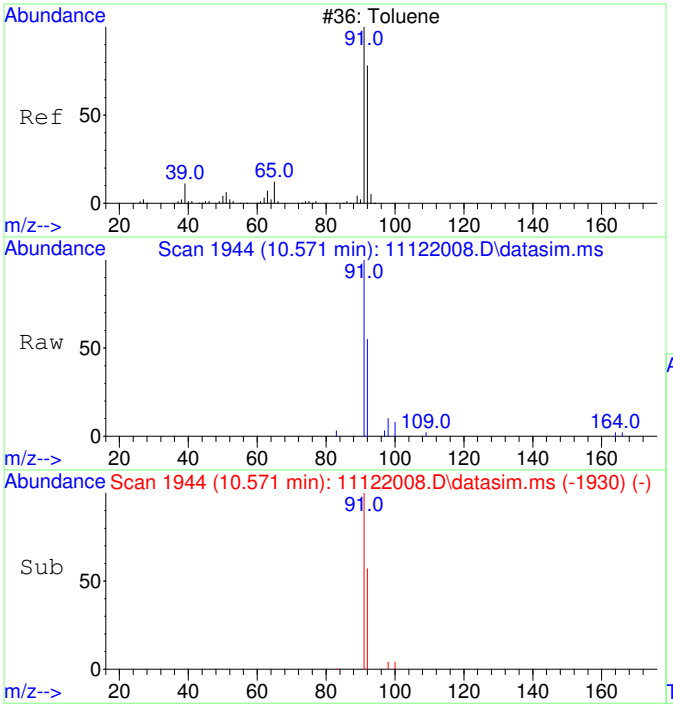


#12
Toluene-d8
Concen: 4426.65 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 98 Resp: 366672

Ion	Ratio	Lower	Upper
98	100		
100	67.0	37.1	97.1

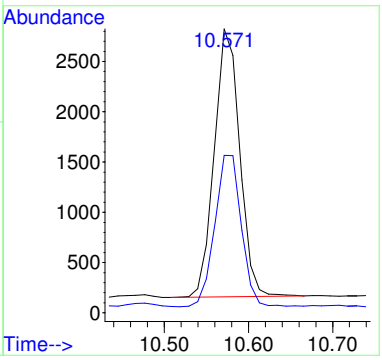


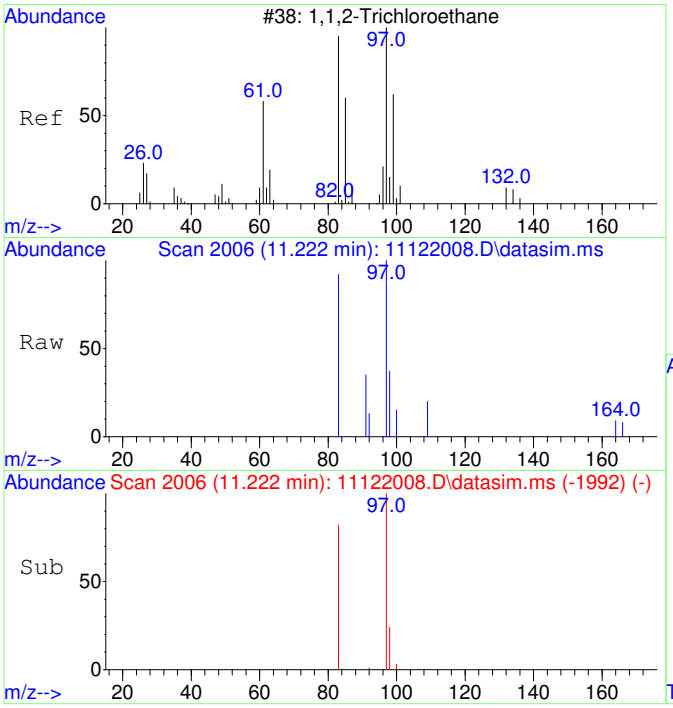


#13
Toluene
Concen: 53.00 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 5597

Ion	Ratio	Lower	Upper
91	100		
92	58.7	29.9	89.9

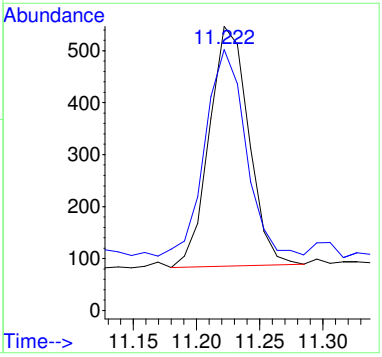


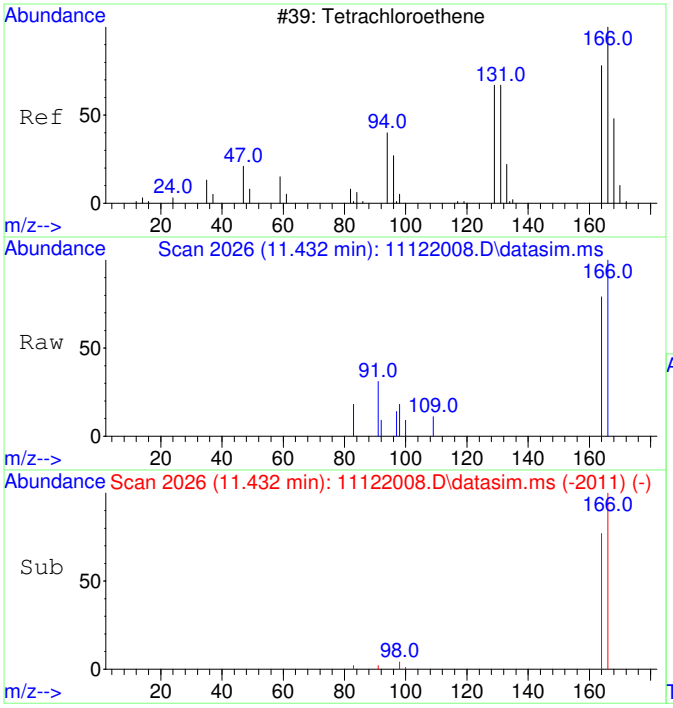


#14
1,1,2-Trichloroethane
Concen: 43.63 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 1004

Ion	Ratio	Lower	Upper
97	100		
83	87.6	51.2	111.2

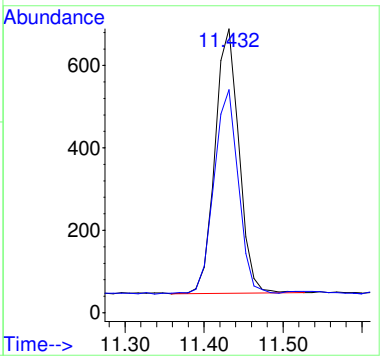


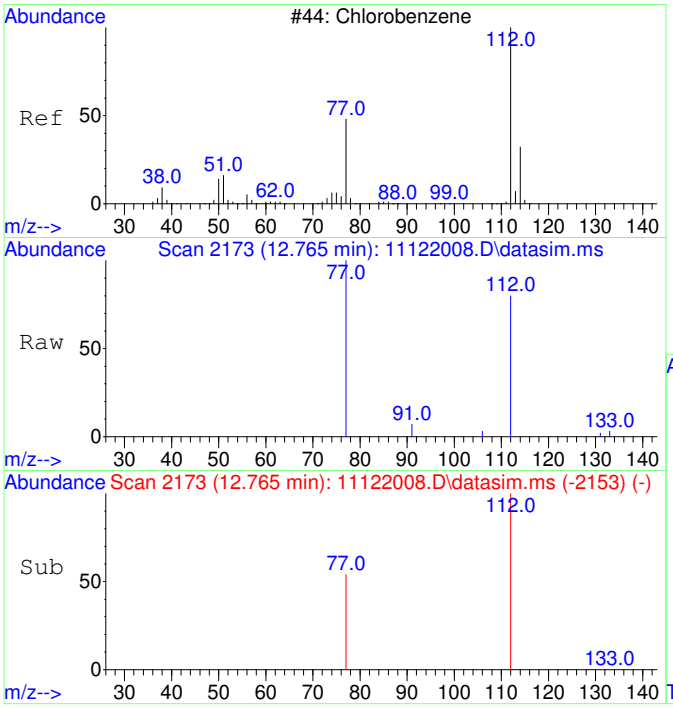


#15
Tetrachloroethene
Concen: 44.14 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:166 Resp: 1349

Ion	Ratio	Lower	Upper
166	100		
164	78.7	47.8	107.8

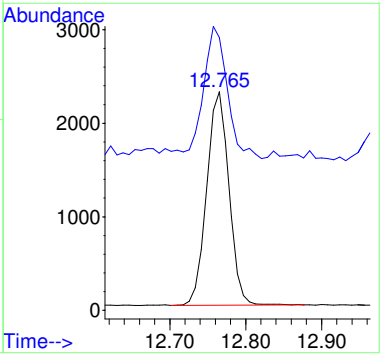


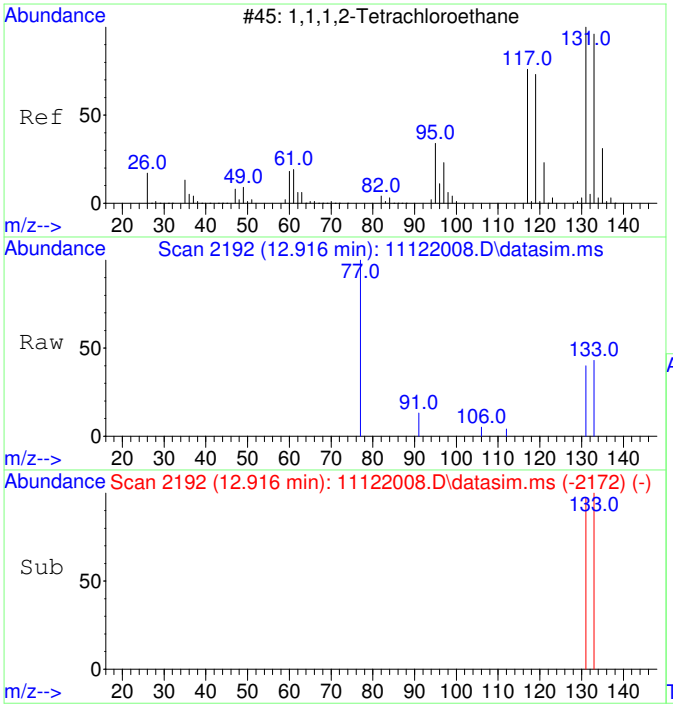


#16
Chlorobenzene
Concen: 61.49 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:112 Resp: 4650

Ion	Ratio	Lower	Upper
112	100		
77	65.8	23.6	83.6

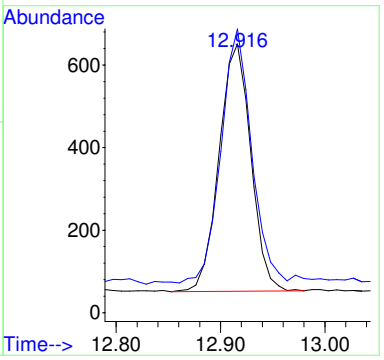


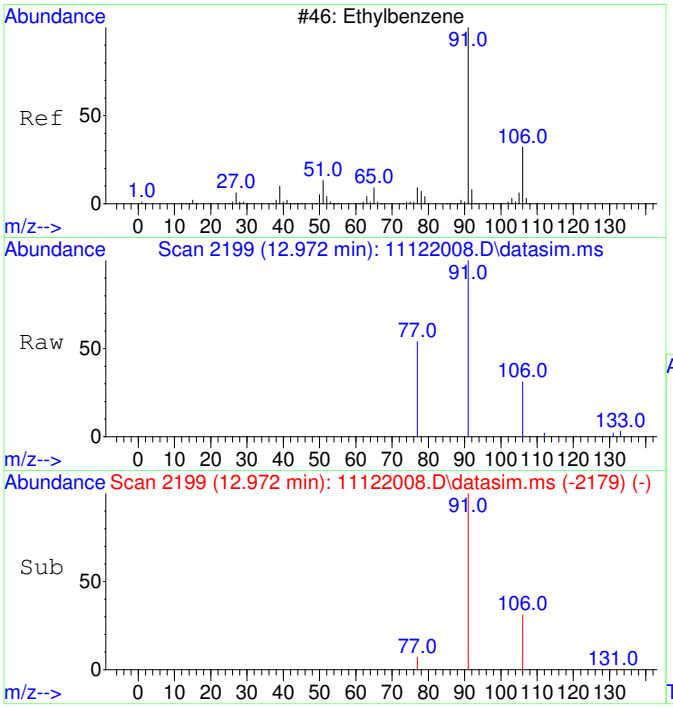


#17
1,1,1,2-Tetrachloroethane
Concen: 46.65 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:131 Resp: 1264

Ion	Ratio	Lower	Upper
131	100		
133	100.9	66.3	126.3

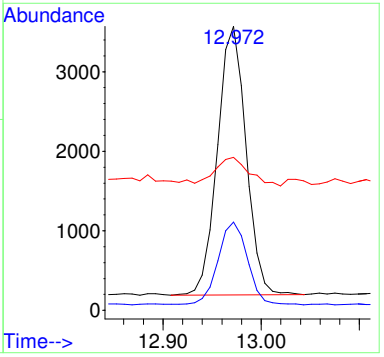


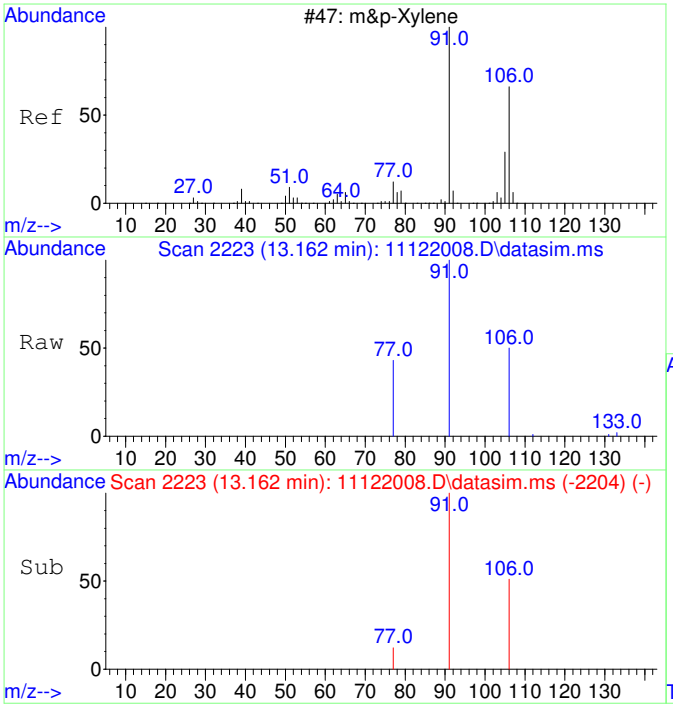


#18
Ethylbenzene
Concen: 52.91 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 6801

Ion	Ratio	Lower	Upper
91	100		
106	31.4	3.0	63.0
77	13.2	0.0	38.2

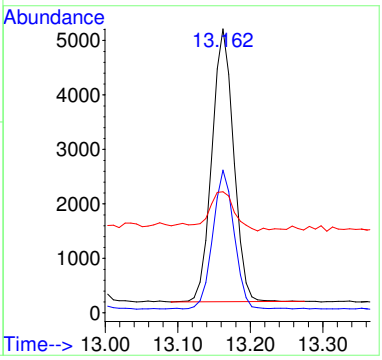


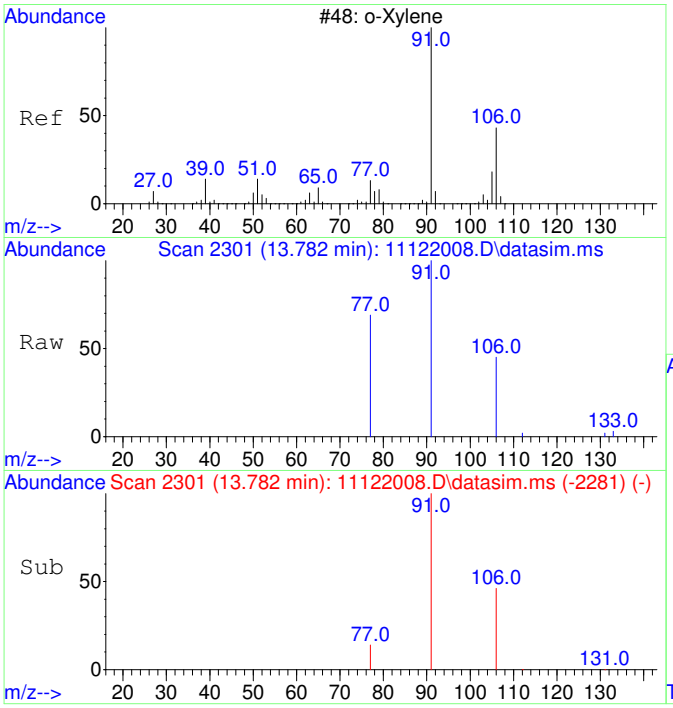


#19
m&p-Xylene
Concen: 103.68 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 10416

Ion	Ratio	Lower	Upper
91	100		
106	49.8	22.2	82.2
77	17.0	0.0	42.4

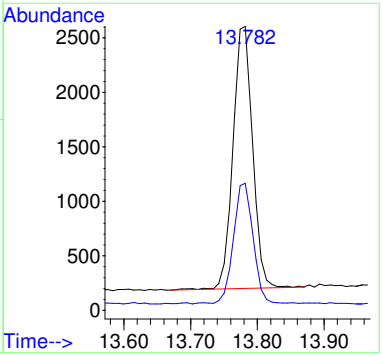


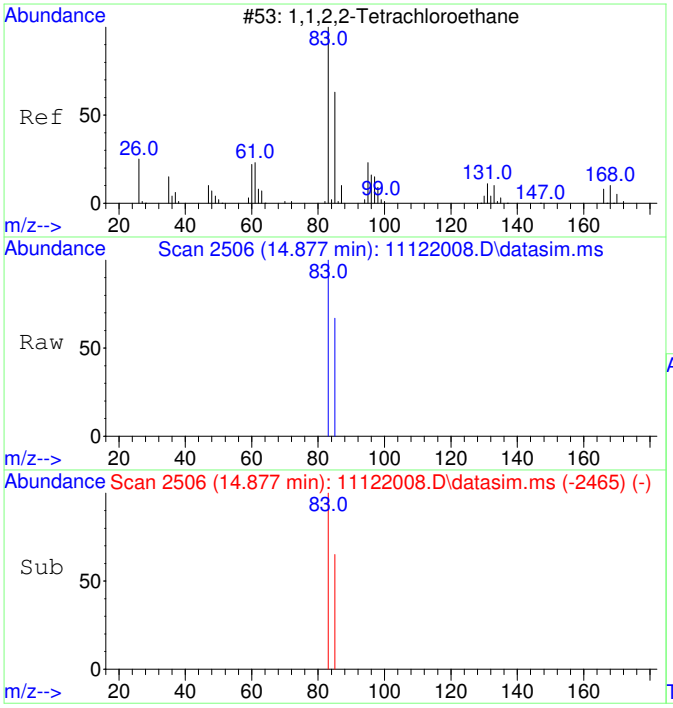


#20
o-Xylene
Concen: 45.76 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 4912

Ion	Ratio	Lower	Upper
91	100		
106	45.9	19.2	79.2

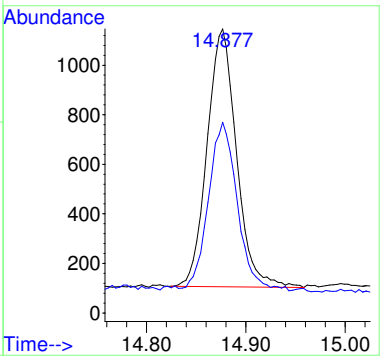


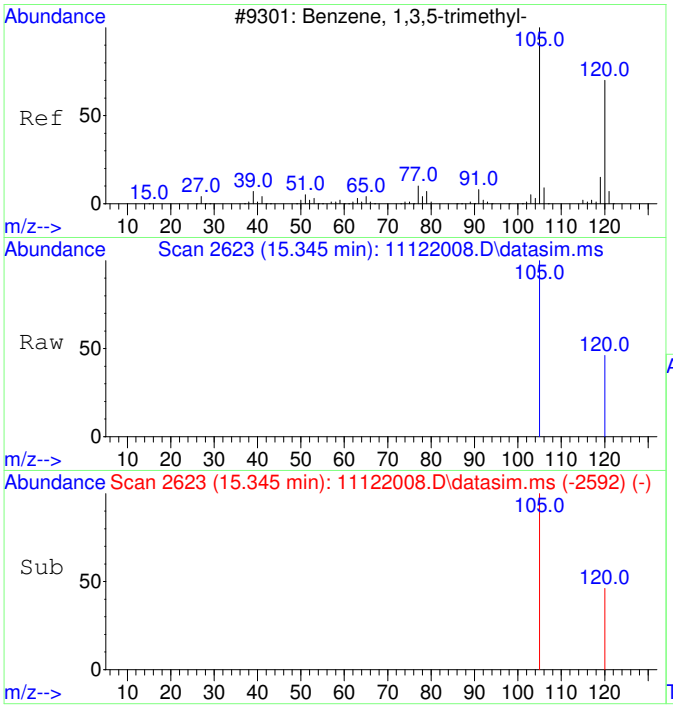


#21
1,1,2,2-Tetrachloroethane
Concen: 45.03 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. 0.004 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 2142

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.8	94.8

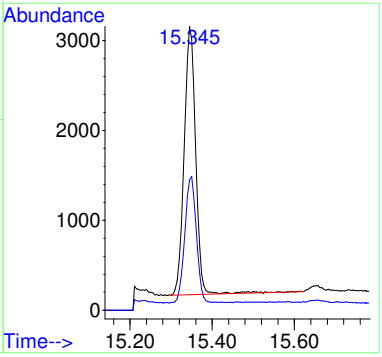


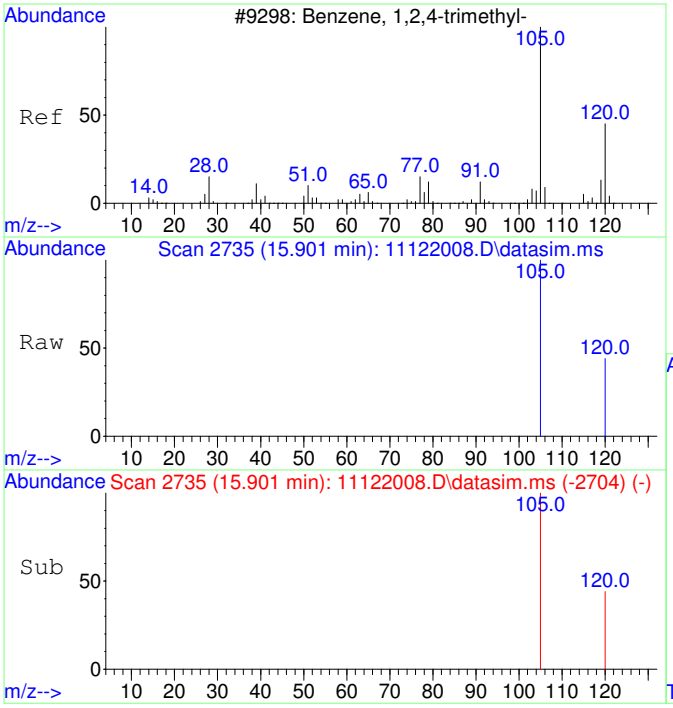


#22
1,3,5-Trimethylbenzene
Concen: 50.66 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 5787

Ion	Ratio	Lower	Upper
105	100		
120	46.4	21.1	81.1

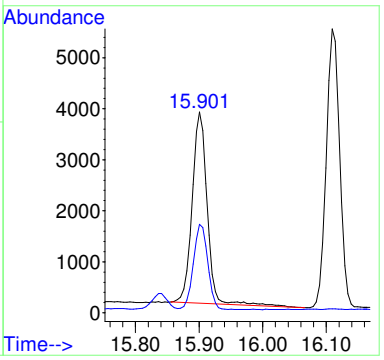


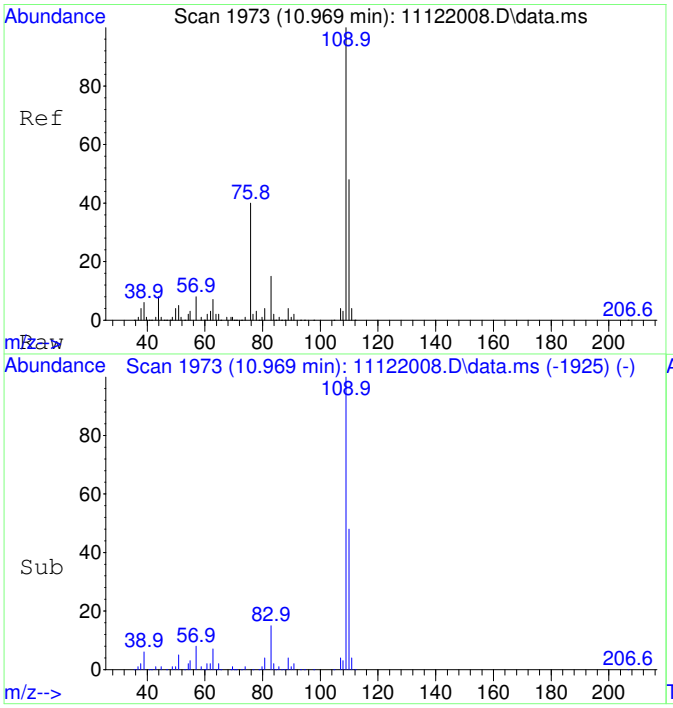


#23
1,2,4-Trimethylbenzene
Concen: 51.64 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 6128

Ion	Ratio	Lower	Upper
105	100		
120	41.9	17.2	77.2

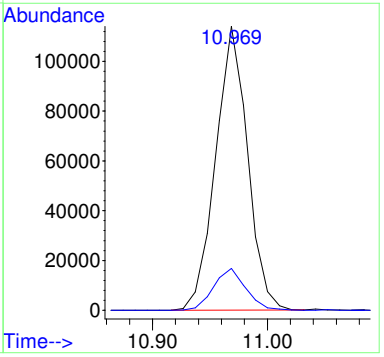


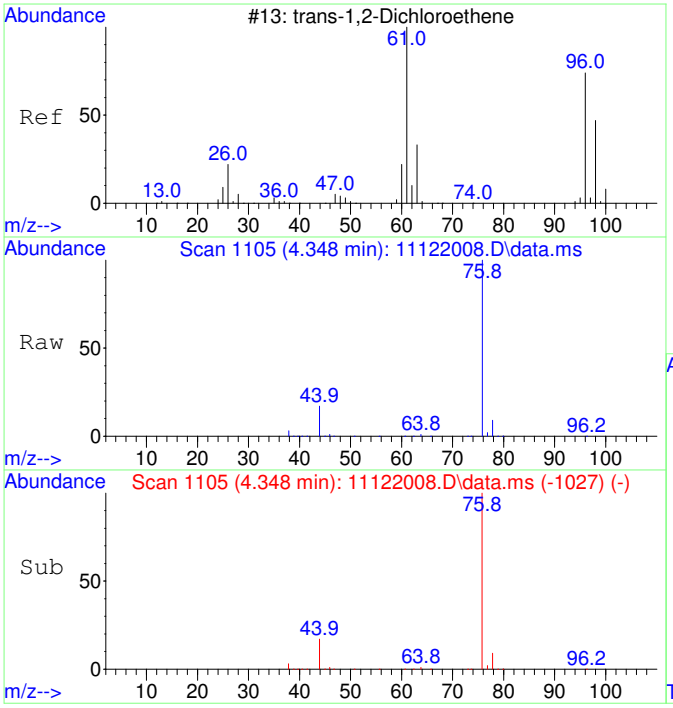


#25
2-Fluorotoluene SCAN
Concen: 5342.39 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:109 Resp: 220361

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	43.8

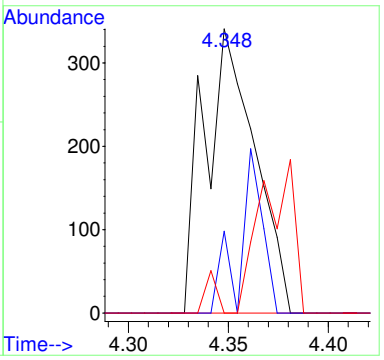


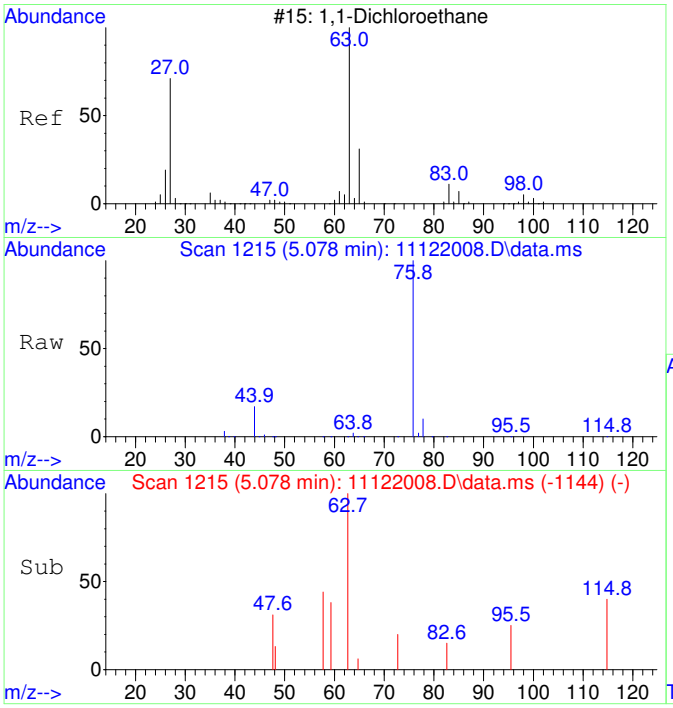


#27
trans-1,2-Dichloroethene SCAN
Concen: 55.63 ug/L
RT: 4.348 min Scan# 1105
Delta R.T. -0.053 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 603

Ion	Ratio	Lower	Upper
61	100		
96	26.2	49.0	109.0#
98	0.0	20.5	80.5#

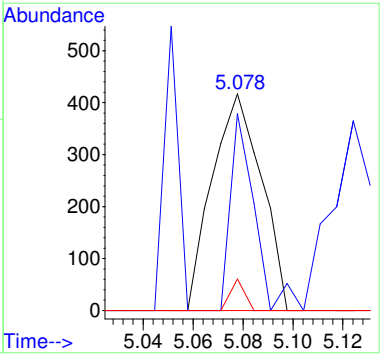


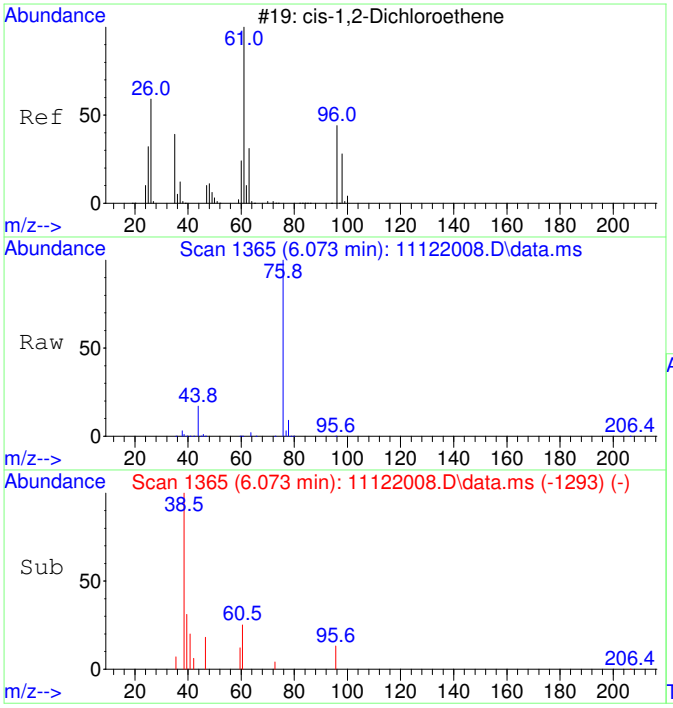


#28
1,1-Dichloroethane SCAN
Concen: 45.60 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. -0.027 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 63 Resp: 572

Ion	Ratio	Lower	Upper
63	100		
65	44.4	1.3	61.3
83	0.0	0.0	45.9

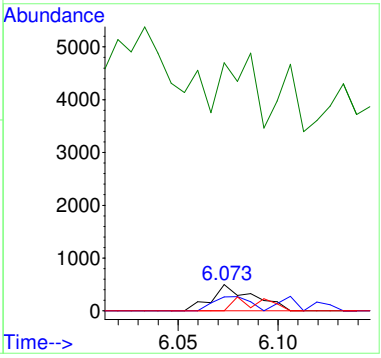


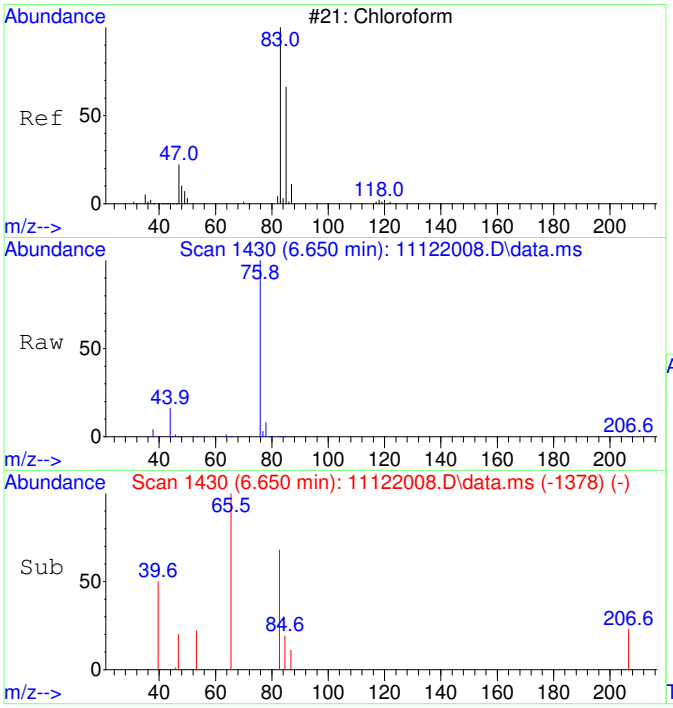


#29
cis-1,2-Dichloroethene SCAN
Concen: 53.94 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.020 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 725

Ion	Ratio	Lower	Upper
61	100		
96	46.8	39.9	99.9
98	37.5	13.5	73.5
64	162.3	4.5	64.5#

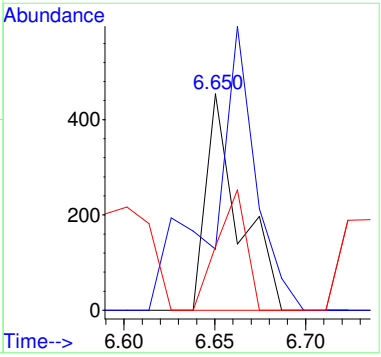


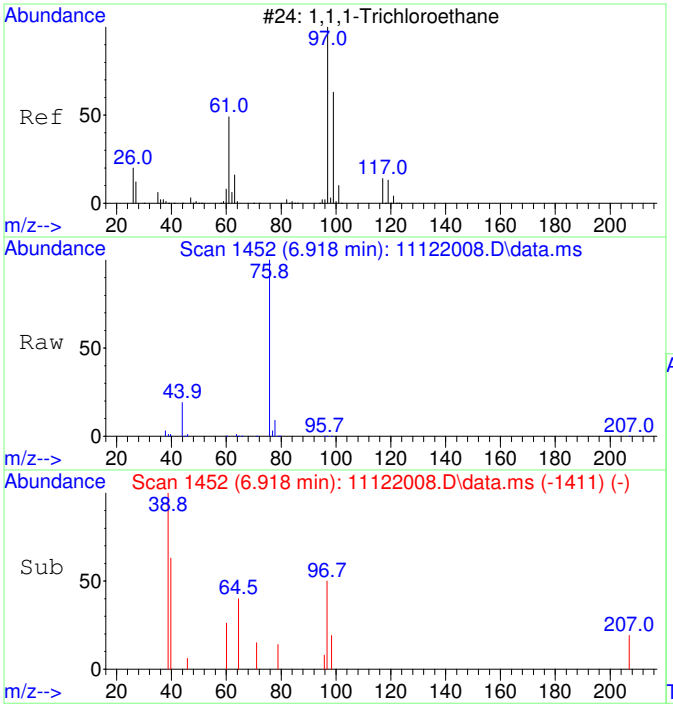


#30
Chloroform SCAN
Concen: 39.58 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 577

Ion	Ratio	Lower	Upper
83	100		
85	172.4	34.6	94.6#
47	48.9	0.0	53.4

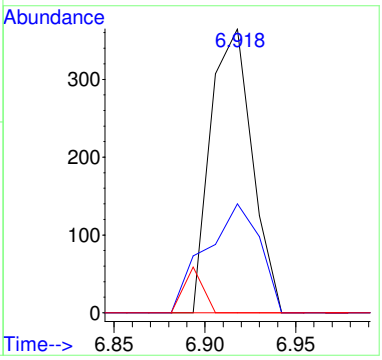


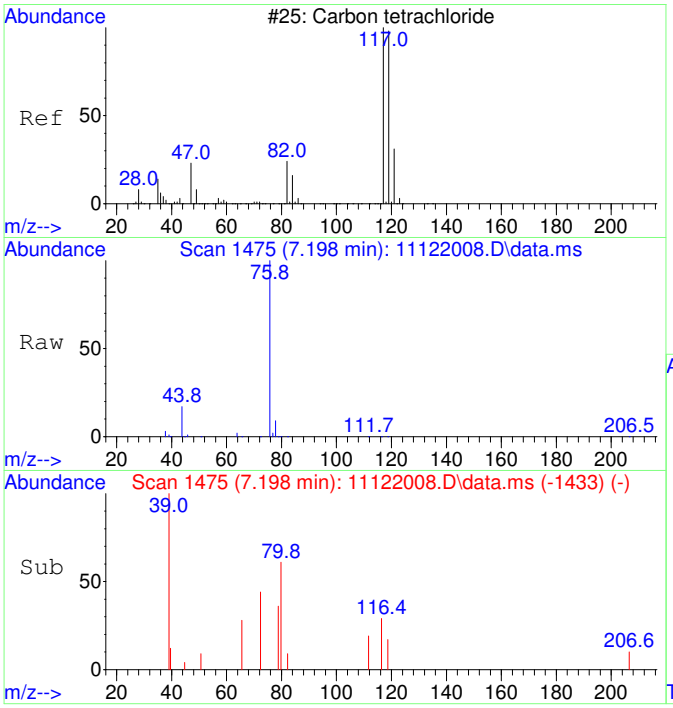


#31
1,1,1-Trichloroethane SCAN
Concen: 43.81 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 582

Ion	Ratio	Lower	Upper
97	100		
99	50.0	43.6	103.6
61	0.0	18.0	78.0#

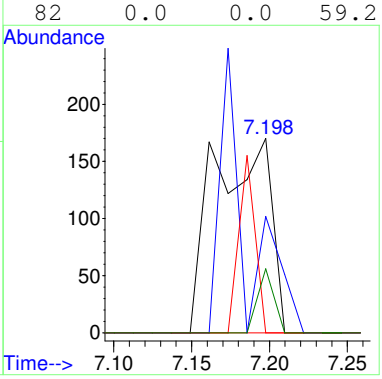


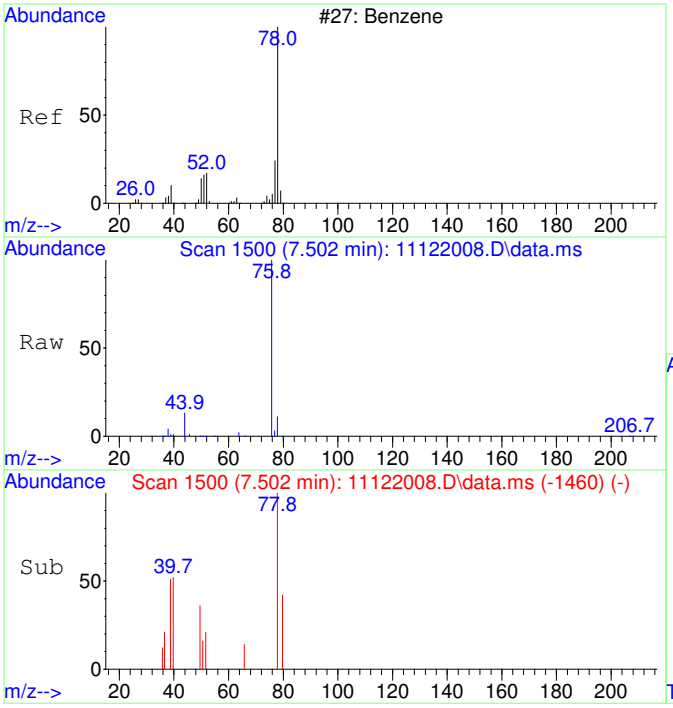


#32
Carbon tetrachloride SCAN
Concen: 31.25 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. 0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:117 Resp: 433

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	26.1	0.0	58.8
82	0.0	0.0	59.2

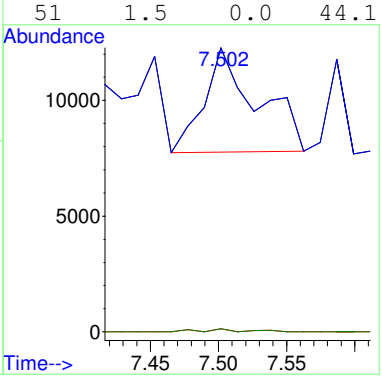


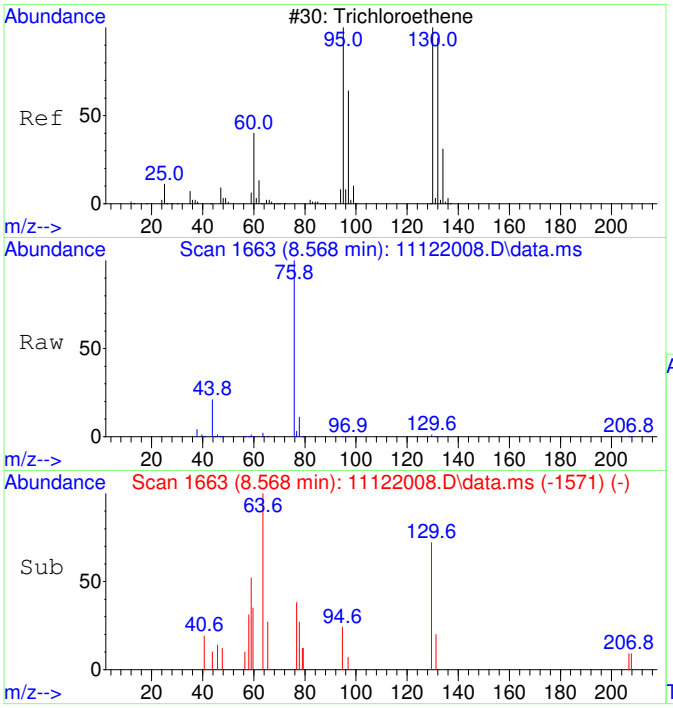


#33
Benzene SCAN
Concen: 332.39 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 78 Resp: 12158

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.5	0.0	47.9
51	1.5	0.0	44.1

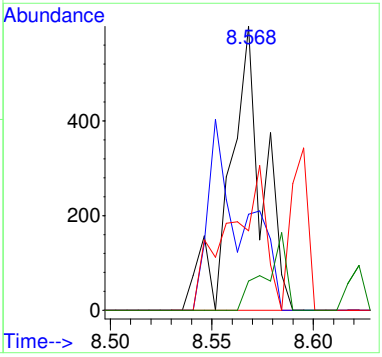


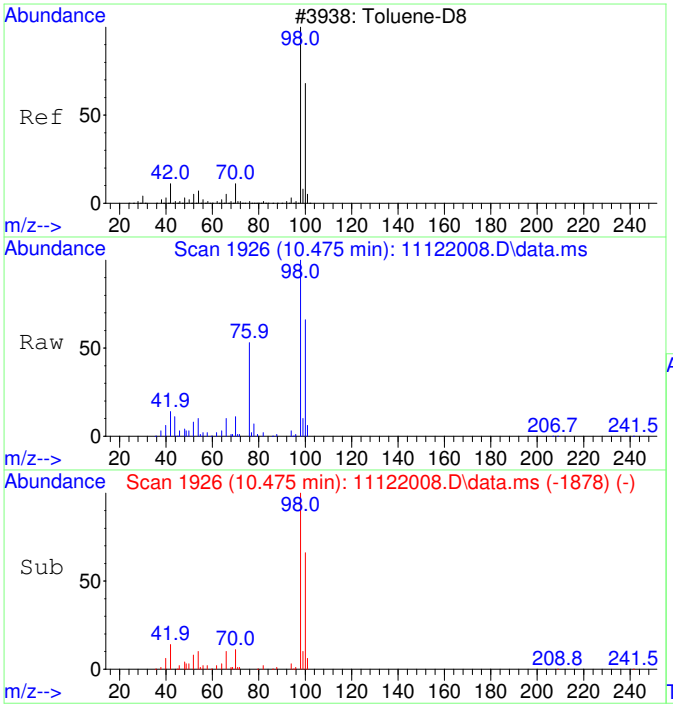


#35
Trichloroethene SCAN
Concen: 67.45 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:130 Resp: 678

Ion	Ratio	Lower	Upper
130	100		
95	0.0	60.5	120.5#
132	58.0	59.6	119.6#
97	0.0	28.2	88.2#

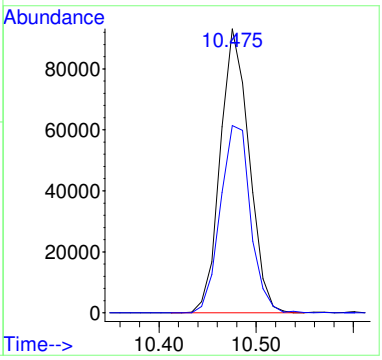


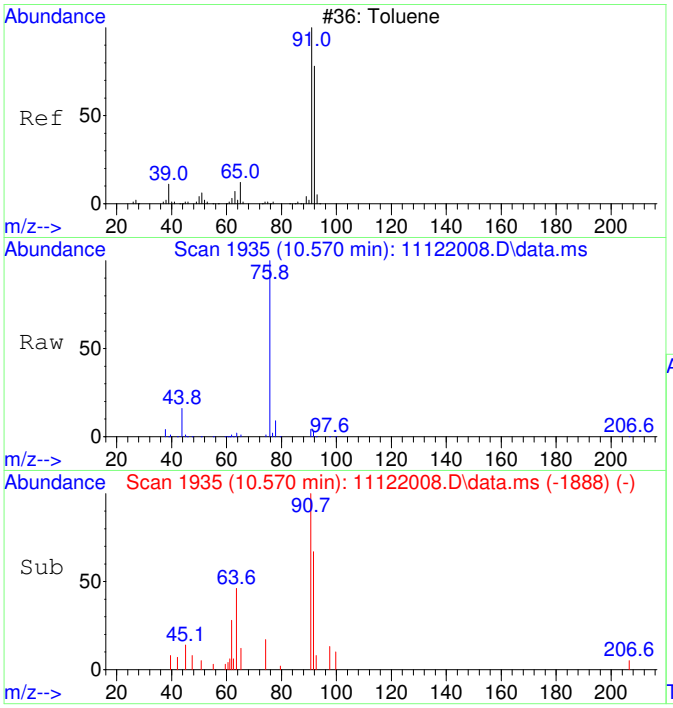


#36
Toluene-d8 SCAN
Concen: 4739.46 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 98 Resp: 191185

Ion	Ratio	Lower	Upper
98	100		
100	69.1	40.0	100.0

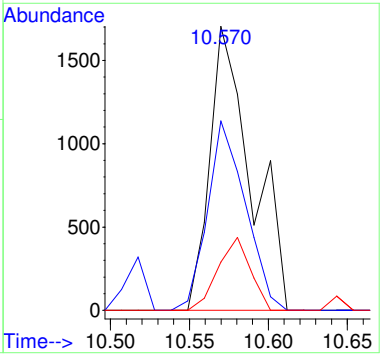


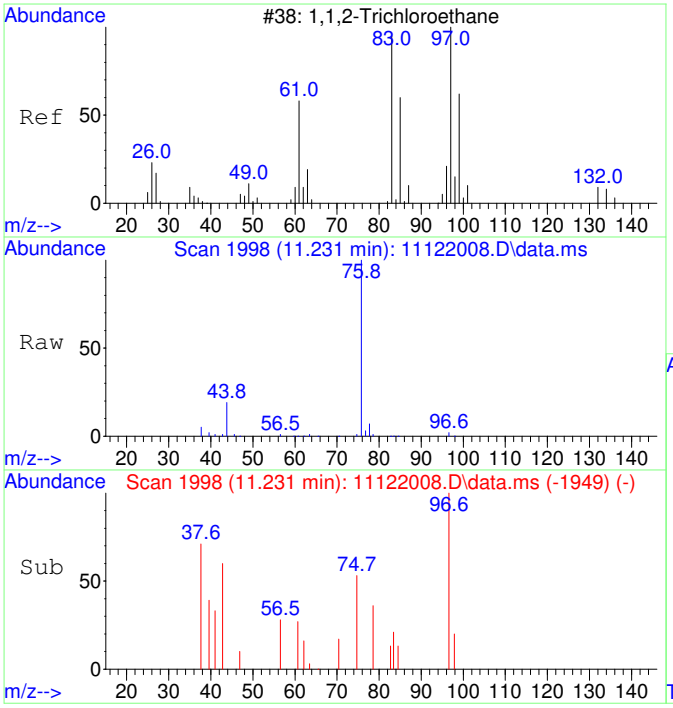


#37
Toluene SCAN
Concen: 60.20 ug/L
RT: 10.570 min Scan# 1935
Delta R.T. -0.011 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 3110

Ion	Ratio	Lower	Upper
91	100		
92	61.1	28.3	88.3
65	20.1	0.0	41.0

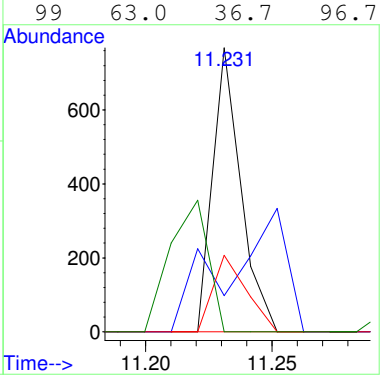


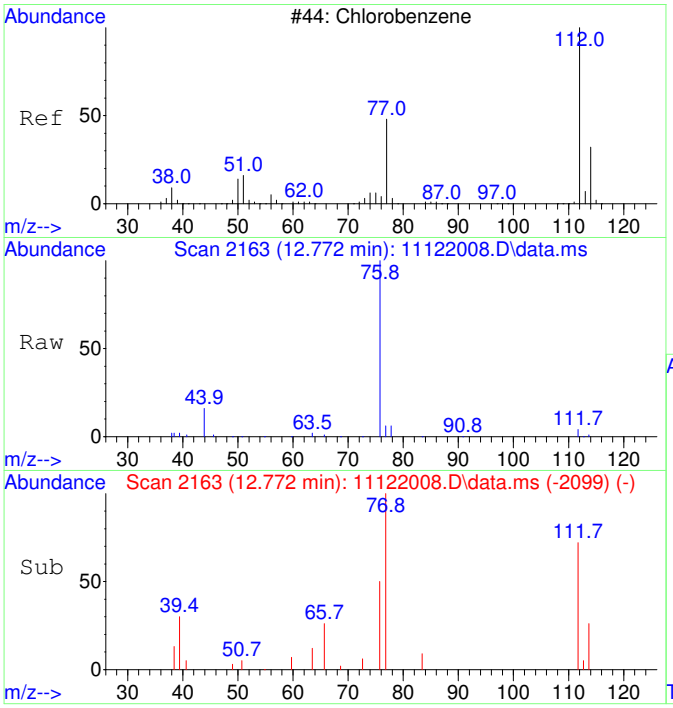


#38
1,1,2-Trichloroethane SCAN
Concen: 51.31 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. 0.010 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 595

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	31.9	32.1	92.1#
99	63.0	36.7	96.7

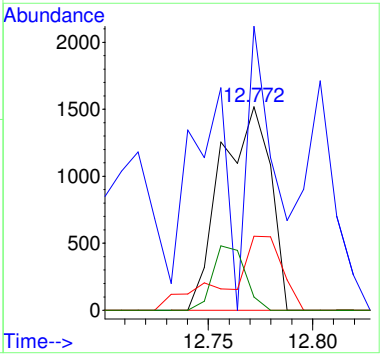


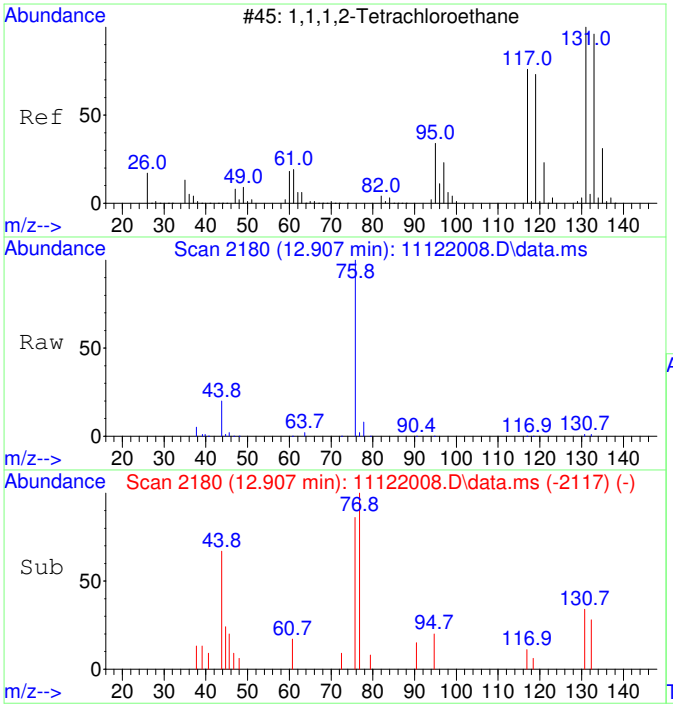


#40
Chlorobenzene SCAN
Concen: 71.19 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:112 Resp: 2513

Ion	Ratio	Lower	Upper
112	100		
77	55.4	28.2	88.2
114	39.6	2.3	62.3
51	0.0	0.0	50.1

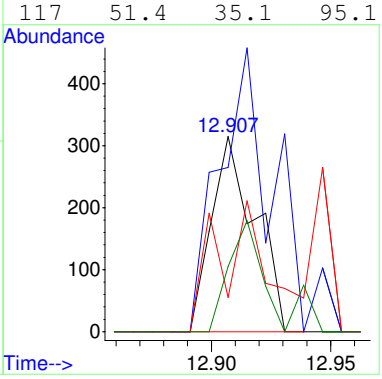


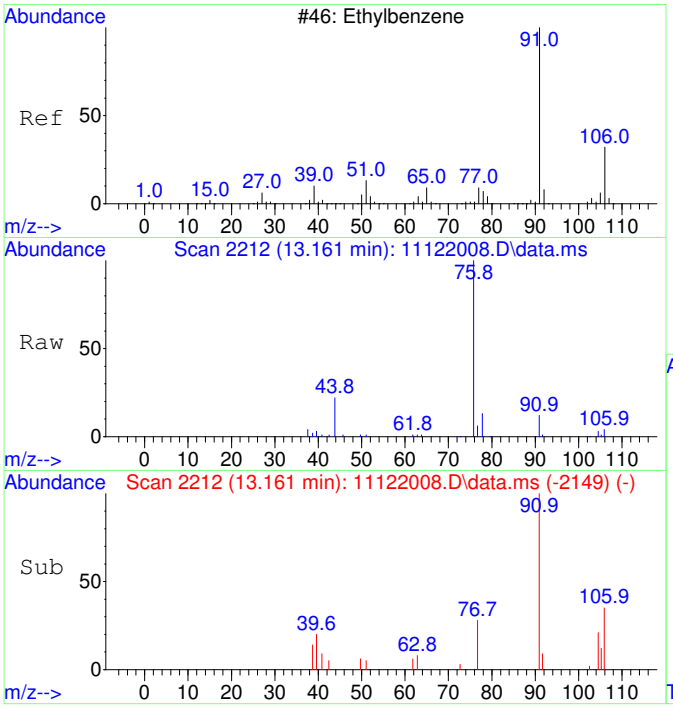


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 30.70 ug/L
RT: 12.907 min Scan# 2180
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:131 Resp: 401

Ion	Ratio	Lower	Upper
131	100		
133	183.5	66.9	126.9#
119	59.1	40.4	100.4
117	51.4	35.1	95.1

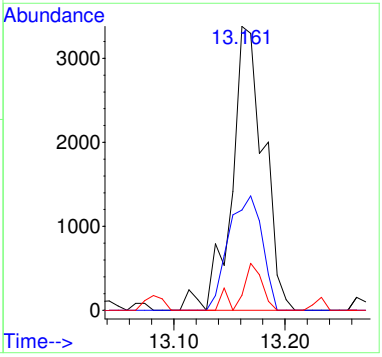


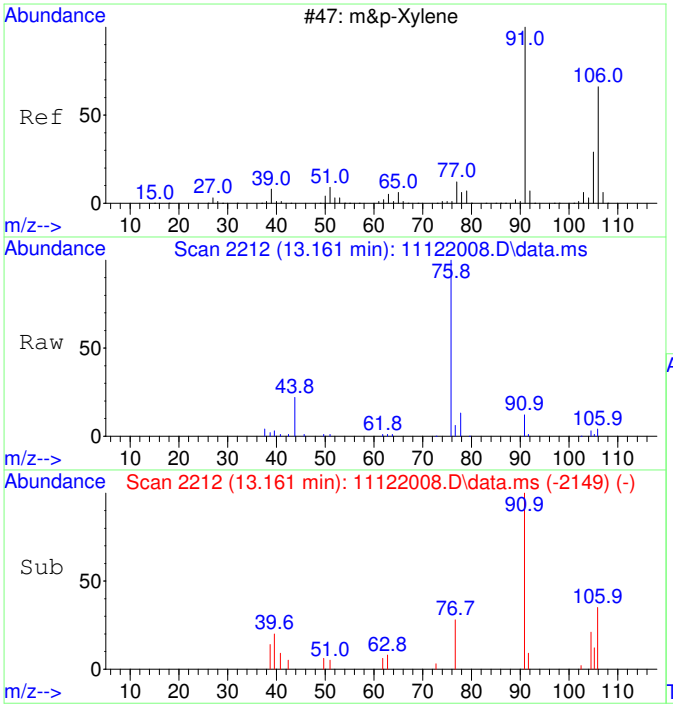


#42
Ethylbenzene SCAN
Concen: 71.99 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 6775

Ion	Ratio	Lower	Upper
91	100		
106	42.4	23.1	83.1
51	10.8	0.0	40.1

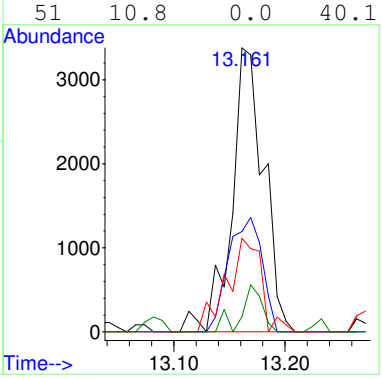


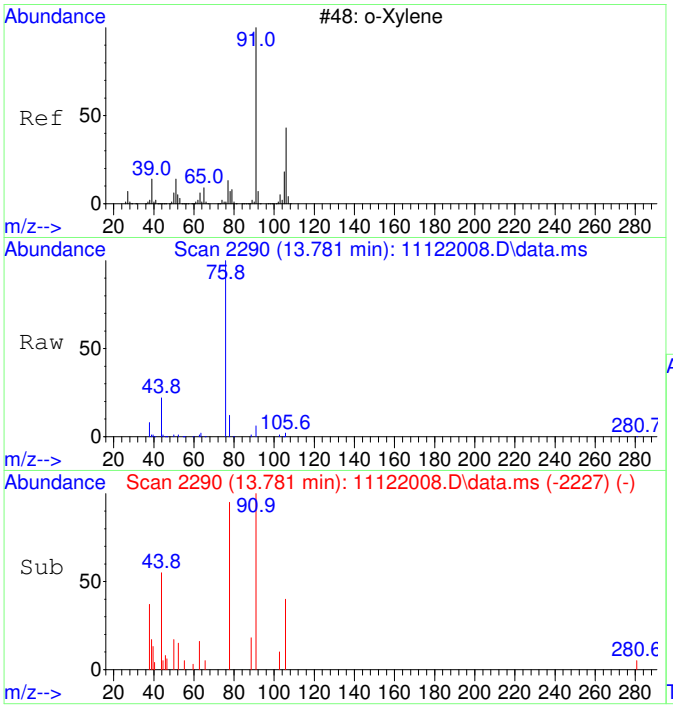


#43
m&p-Xylene SCAN
Concen: 71.99 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 6775

Ion	Ratio	Lower	Upper
91	100		
106	42.4	23.1	83.1
105	35.3	0.0	54.7
51	10.8	0.0	40.1

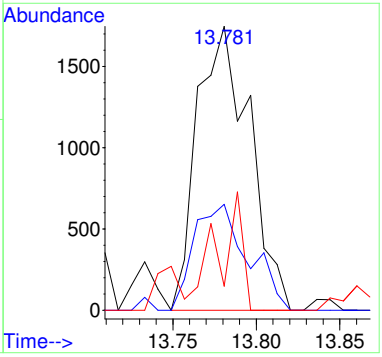


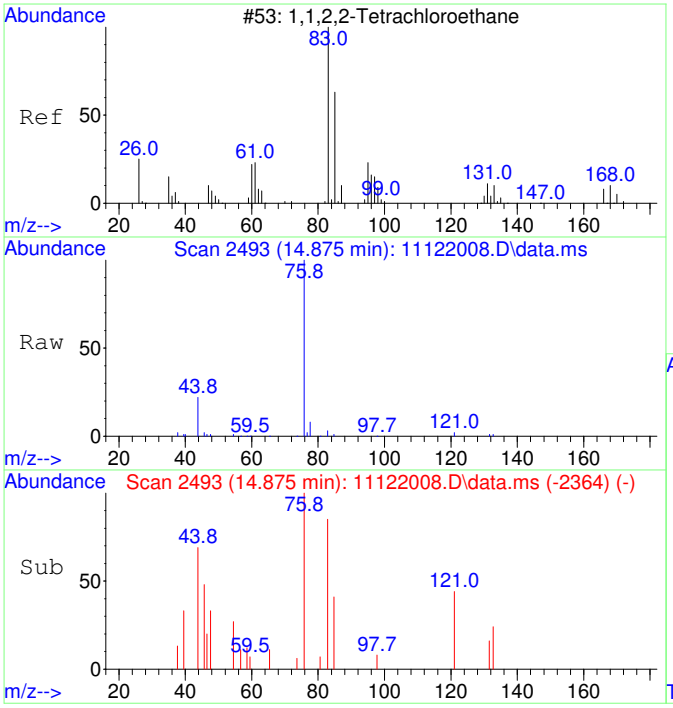


#44
o-Xylene SCAN
Concen: 75.99 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 3828

Ion	Ratio	Lower	Upper
91	100		
106	38.4	18.0	78.0
105	17.2	0.0	56.6

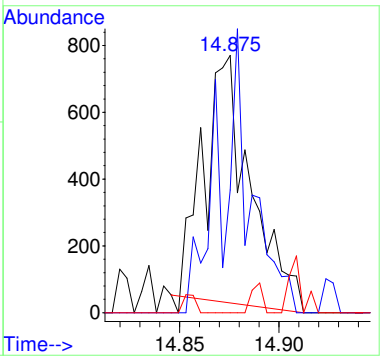


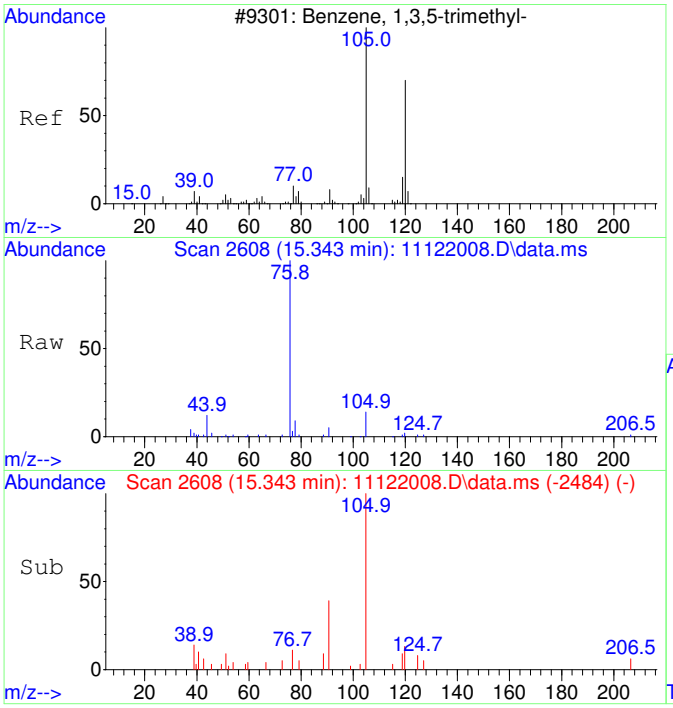


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 48.89 ug/L
RT: 14.875 min Scan# 2493
Delta R.T. 0.004 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 1201

Ion	Ratio	Lower	Upper
83	100		
85	36.7	35.9	95.9
95	0.0	0.0	47.4

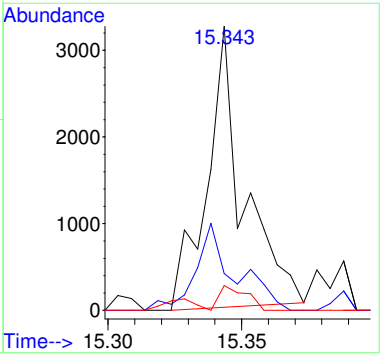


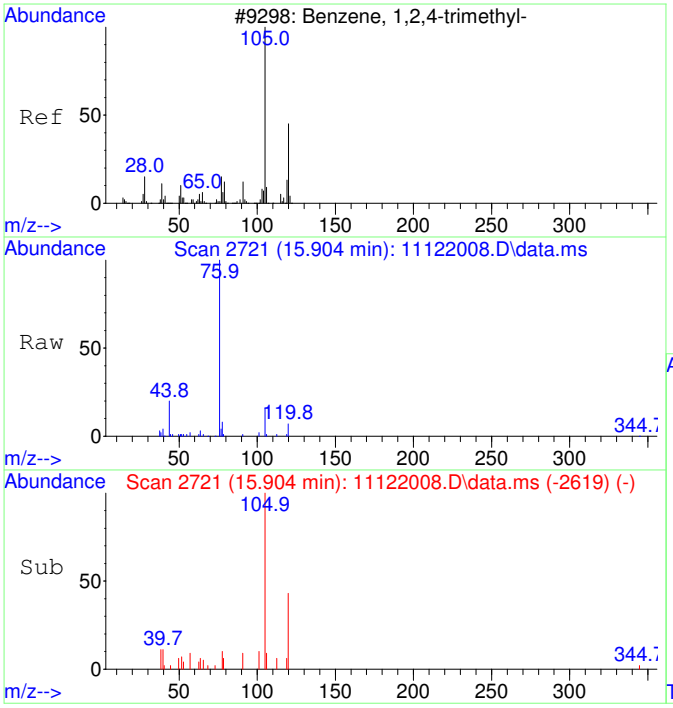


#46
1,3,5-Trimethylbenzene SCAN
Concen: 58.09 ug/L
RT: 15.343 min Scan# 2608
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 3084

Ion	Ratio	Lower	Upper
105	100		
120	33.4	18.3	78.3
119	6.6	0.0	43.1

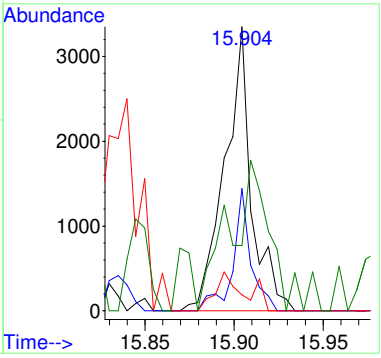




#47
1,2,4-Trimethylbenzene SCAN
Concen: 64.37 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 3497

Ion	Ratio	Lower	Upper
105	100		
120	28.9	16.9	76.9
119	0.0	0.0	41.9
77	24.9	0.0	42.3



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122008.D
Acq On : 12 Nov 2020 11:14
InstName : AG5975C
Operator : TD
Sample : B20K043-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

M.I. Performed By:
TD at 12:00 pm, Nov 12, 2020

M.I. Approved By:
ZR at 2:15 pm, Nov 23, 2020

Quant Time: Nov 12 11:33:05 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

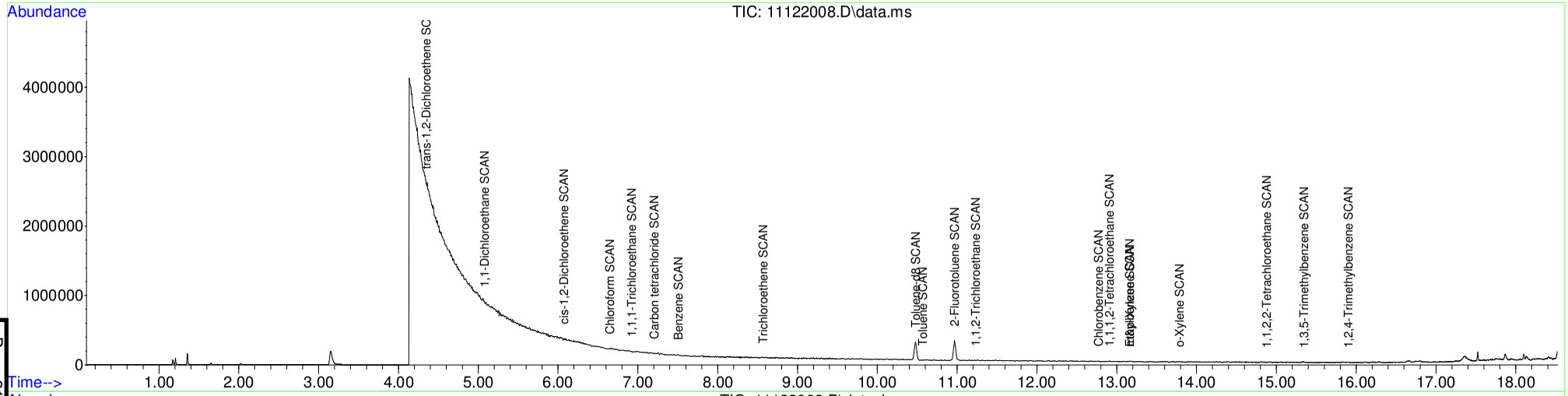
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	423133	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	366672	4426.65	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.53%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	703m	41.61	ug/L	
3] trans-1,2-Dichloroethene	4.362	61	852	43.64	ug/L	75
4] 1,1-Dichloroethane	5.079	63	1075	44.24	ug/L	74
5] cis-1,2-Dichloroethene	6.081	61	1129	44.01	ug/L	100
6] Chloroform	6.652	83	1395	53.13	ug/L	98
7] 1,1,1-Trichloroethane	6.907	97	1247	43.73	ug/L	99
8] Carbon tetrachloride	7.175	117	1150	42.85	ug/L	97
9] Benzene	7.503	78	6781	94.32	ug/L	46
10] 1,2-Dichloroethane	7.539	62	1132	44.11	ug/L #	1
11] Trichloroethene	8.569	130	980	45.27	ug/L	93
13] Toluene	10.571	91	5597	53.00	ug/L	98
14] 1,1,2-Trichloroethane	11.222	97	1004	43.63	ug/L	93
15] Tetrachloroethene	11.432	166	1349	44.14	ug/L	99
16] Chlorobenzene	12.765	112	4650	61.49	ug/L	83
17] 1,1,1,2-Tetrachloroethane	12.916	131	1264	46.65	ug/L	95
18] Ethylbenzene	12.972	91	6801	52.91	ug/L	95
19] m&p-Xylene	13.162	91	10416	103.68	ug/L	95
20] o-Xylene	13.782	91	4912	45.76	ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.877	83	2142	45.03	ug/L	99
22] 1,3,5-Trimethylbenzene	15.345	105	5787	50.66	ug/L	93
23] 1,2,4-Trimethylbenzene	15.901	105	6128	51.64	ug/L	92
25) 2-Fluorotoluene SCAN	10.969	109	220361	5342.39	ug/L	97
27) trans-1,2-Dichloroethe...	4.348	61	603	55.63	ug/L #	35
28) 1,1-Dichloroethane SCAN	5.078	63	572	45.60	ug/L #	72
29) cis-1,2-Dichloroethene...	6.073	61	725	53.94	ug/L #	32
30) Chloroform SCAN	6.650	83	577	39.58	ug/L #	1
31) 1,1,1-Trichloroethane ...	6.918	97	582	43.81	ug/L #	55
32) Carbon tetrachloride SCAN	7.198	117	433	31.25	ug/L #	23
33) Benzene SCAN	7.502	78	12158	332.39	ug/L	92
35) Trichloroethene SCAN	8.568	130	678	67.45	ug/L #	32
36) Toluene-d8 SCAN	10.475	98	191185	4739.46	ug/L	99
37) Toluene SCAN	10.570	91	3110	60.20	ug/L	93
38) 1,1,2-Trichloroethane ...	11.231	97	595	51.31	ug/L #	49
40) Chlorobenzene SCAN	12.772	112	2513	71.19	ug/L #	86
41) 1,1,1,2-Tetrachloroeth...	12.907	131	401	30.70	ug/L #	54
42) Ethylbenzene SCAN	13.161	91	6775	71.99	ug/L	87
43) m&p-Xylene SCAN	13.161	91	6775	71.99	ug/L	85
44) o-Xylene SCAN	13.781	91	3828	75.99	ug/L	84
45) 1,1,2,2-Tetrachloroeth...	14.875	83	1201	48.89	ug/L #	63
46) 1,3,5-Trimethylbenzene...	15.343	105	3084	58.09	ug/L	79
47) 1,2,4-Trimethylbenzene...	15.904	105	3497	64.37	ug/L #	71

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122008.D
Acq On : 12 Nov 2020 11:14
InstName : AG5975C
Operator : TD
Sample : B20K043-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 12 11:33:05 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



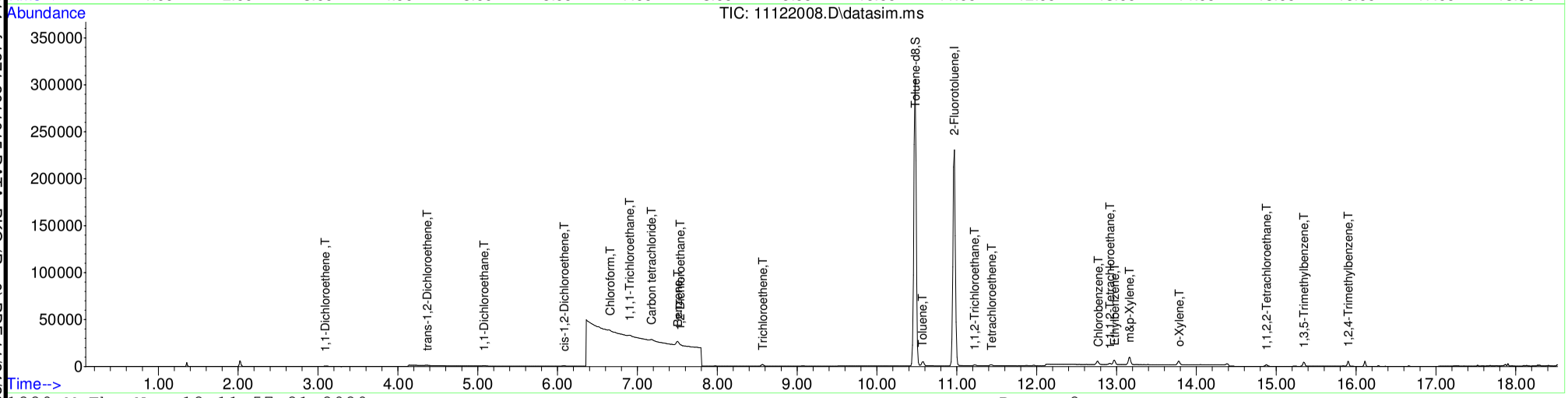
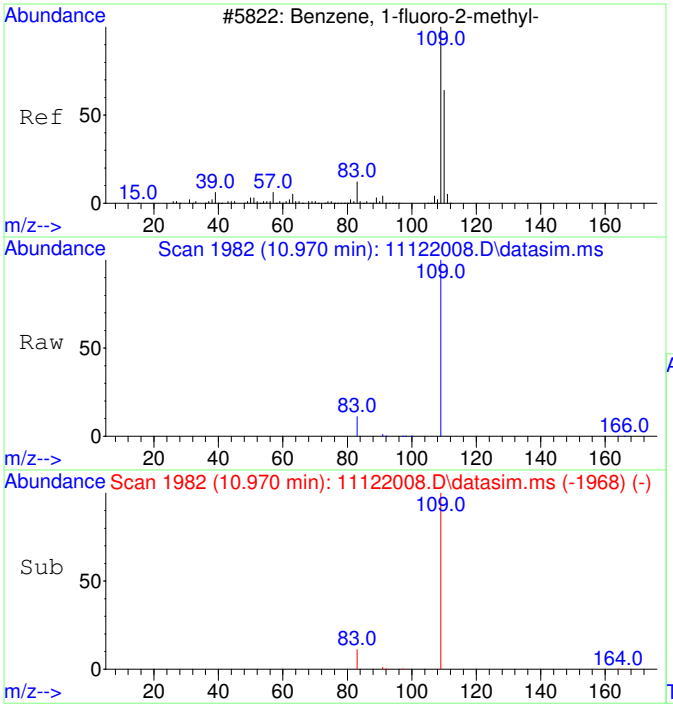


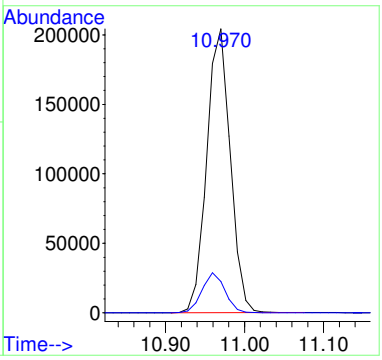
Table of Contents

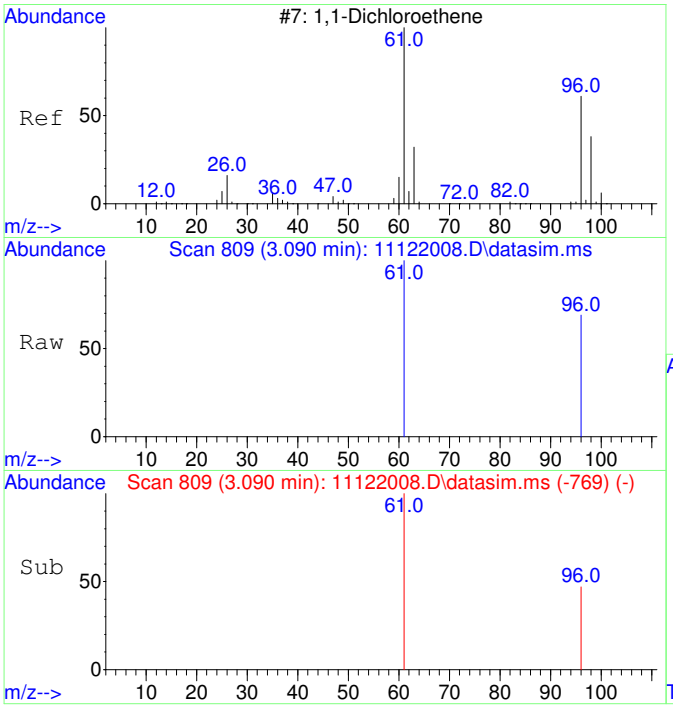


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:109 Resp: 423133

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

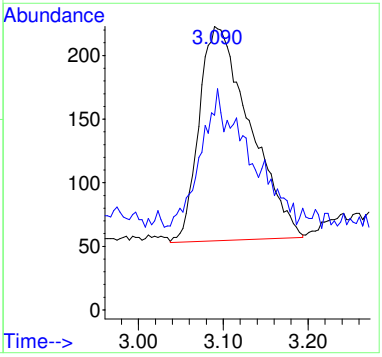


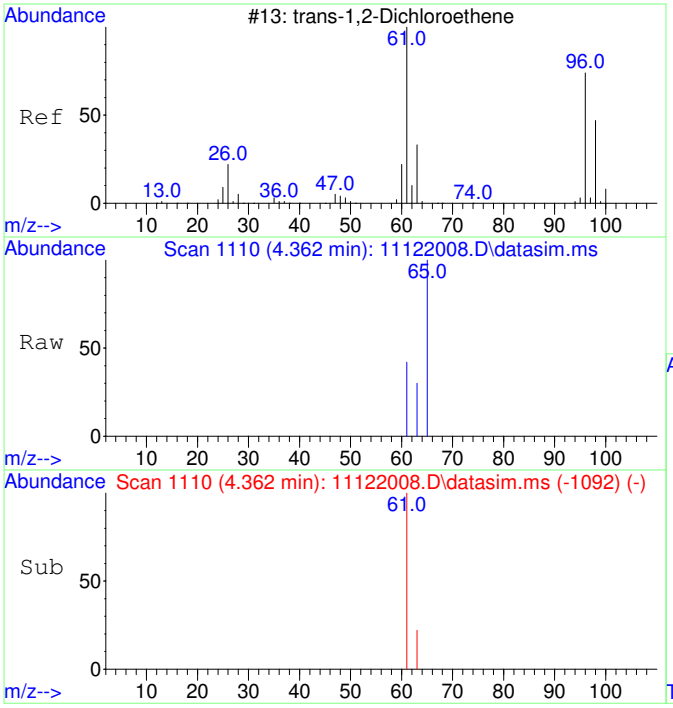


#2
1,1-Dichloroethene
Concen: 41.61 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 703

Ion	Ratio	Lower	Upper
61	100		
96	33.1	37.2	97.2#

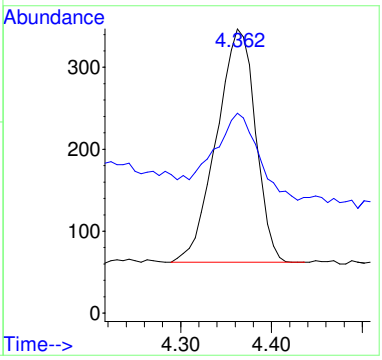


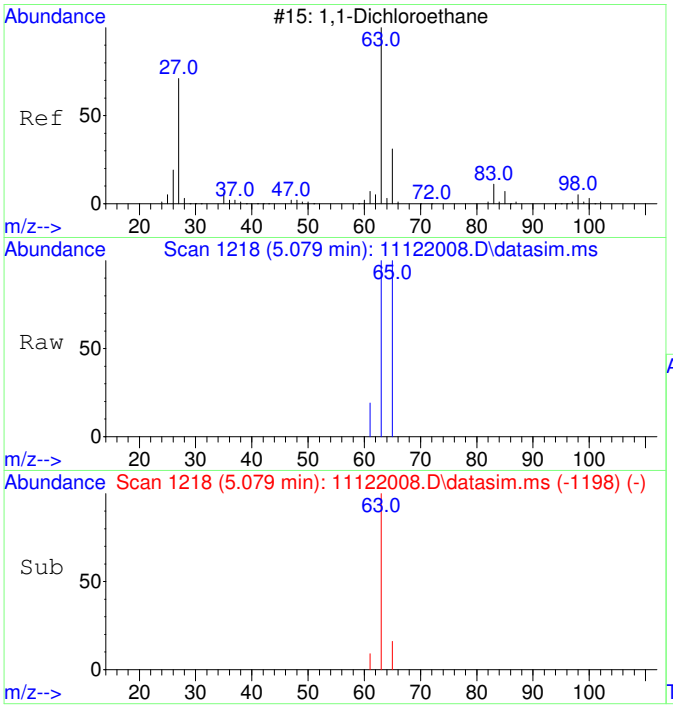


#3
trans-1,2-Dichloroethene
Concen: 43.64 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. -0.033 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 852

Ion	Ratio	Lower	Upper
61	100		
63	46.4	2.4	62.4

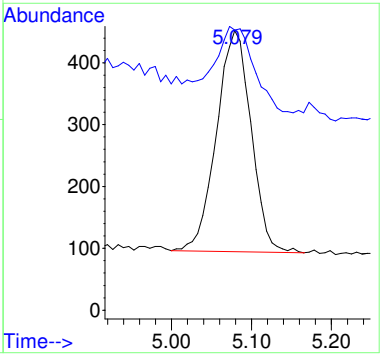


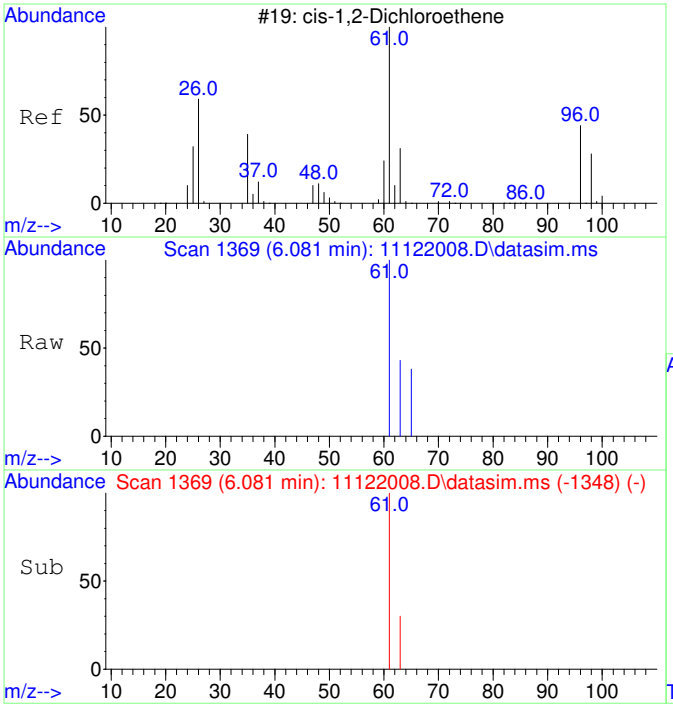


#4
1,1-Dichloroethane
Concen: 44.24 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 63 Resp: 1075

Ion	Ratio	Lower	Upper
63	100		
65	46.4	1.8	61.8

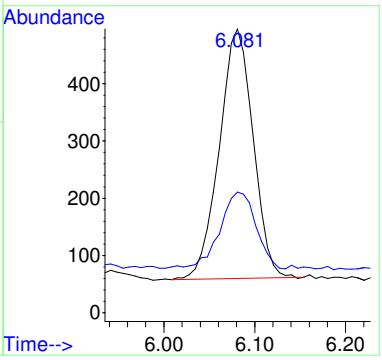


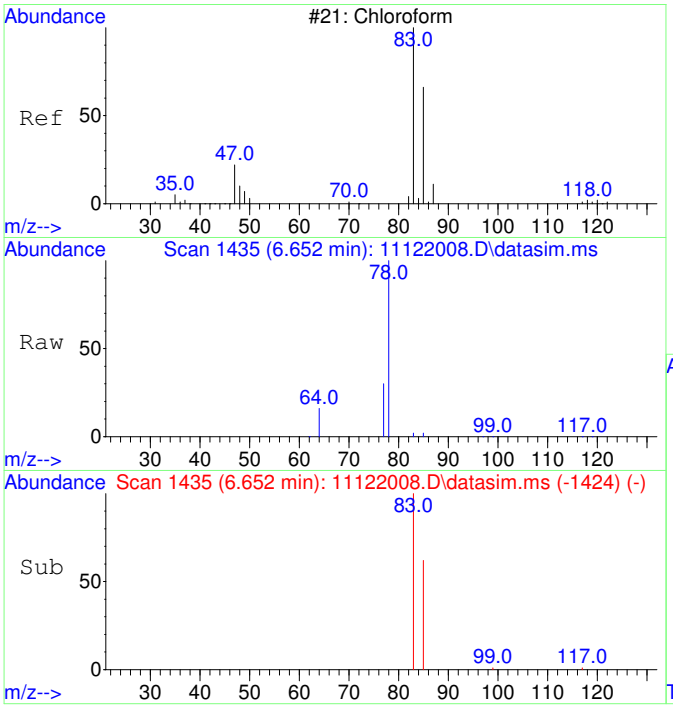


#5
cis-1,2-Dichloroethene
Concen: 44.01 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 1129

Ion	Ratio	Lower	Upper
61	100		
63	32.4	2.5	62.5

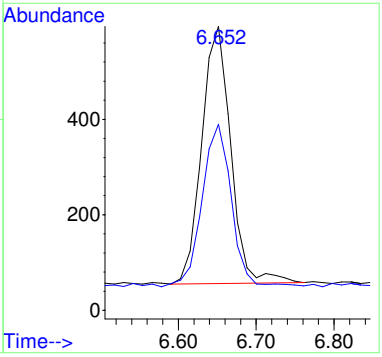


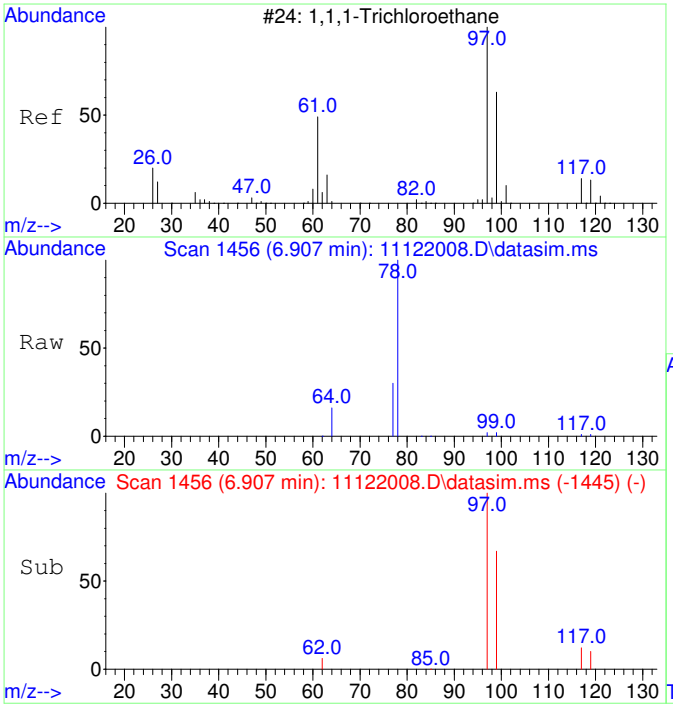


#6
Chloroform
Concen: 53.13 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 1395

Ion	Ratio	Lower	Upper
83	100		
85	63.2	35.1	95.1

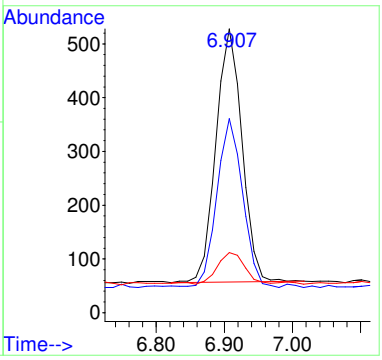


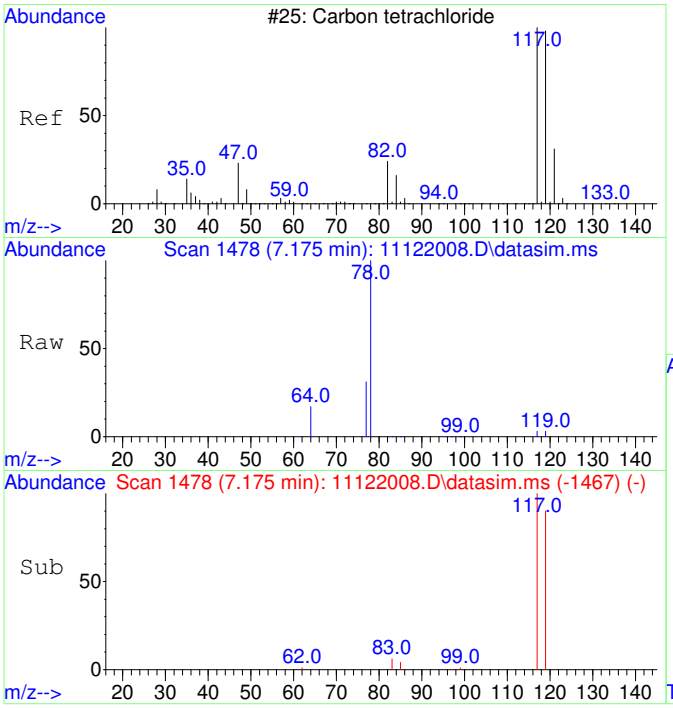


#7
1,1,1-Trichloroethane
Concen: 43.73 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 1247

Ion	Ratio	Lower	Upper
97	100		
99	65.3	34.6	94.6
117	13.2	0.0	43.2

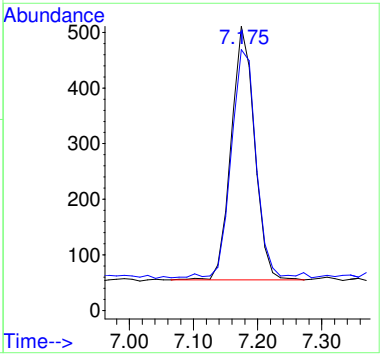


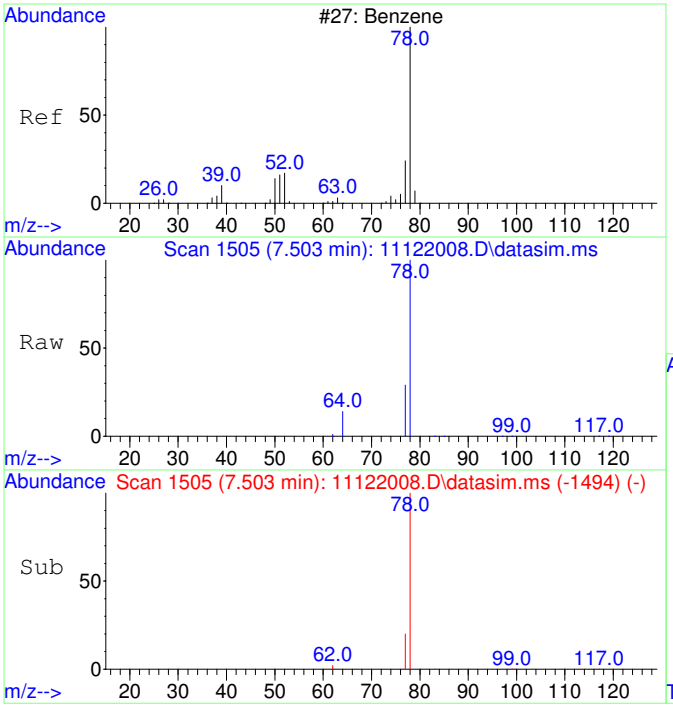


#8
Carbon tetrachloride
Concen: 42.85 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:117 Resp: 1150

Ion	Ratio	Lower	Upper
117	100		
119	93.6	66.4	126.4

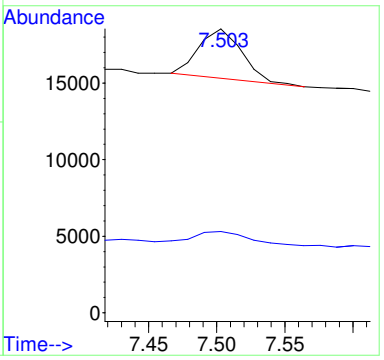


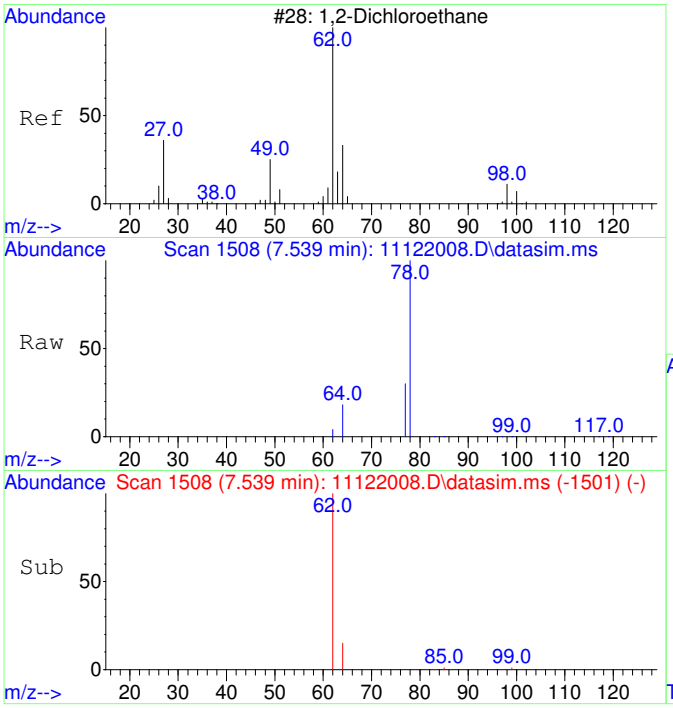


#9
Benzene
Concen: 94.32 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 78 Resp: 6781

Ion	Ratio	Lower	Upper
78	100		
77	49.5	0.0	53.2

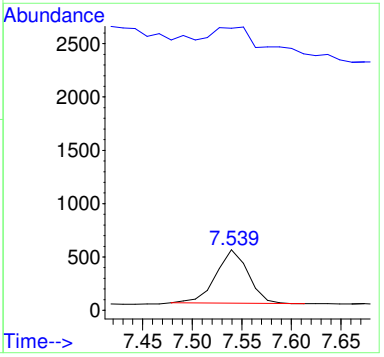


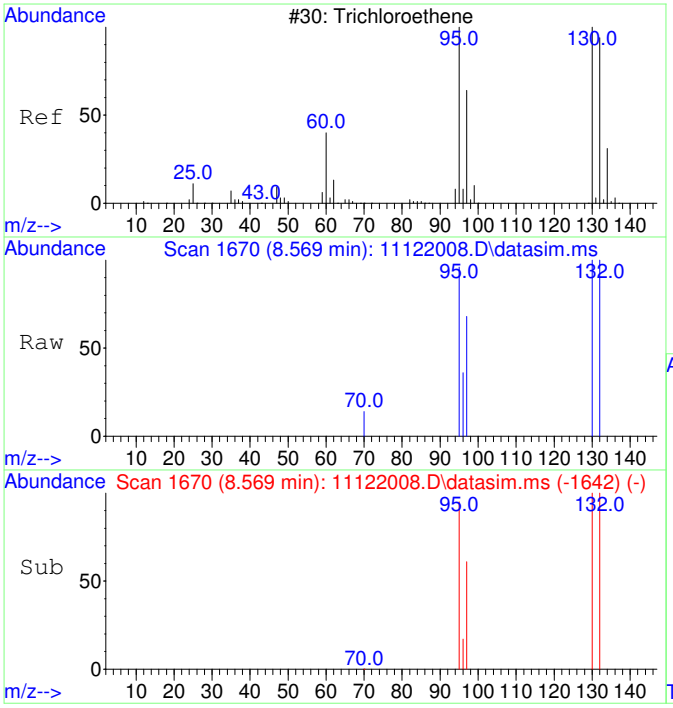


#10
1,2-Dichloroethane
Concen: 44.11 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 62 Resp: 1132

Ion	Ratio	Lower	Upper
62	100		
64	110.9	2.3	62.3#

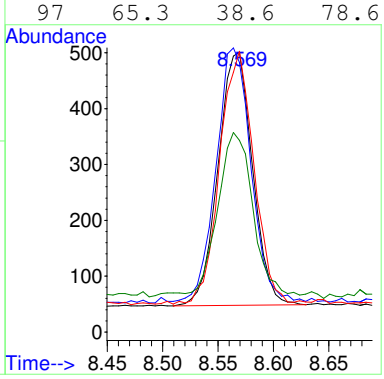


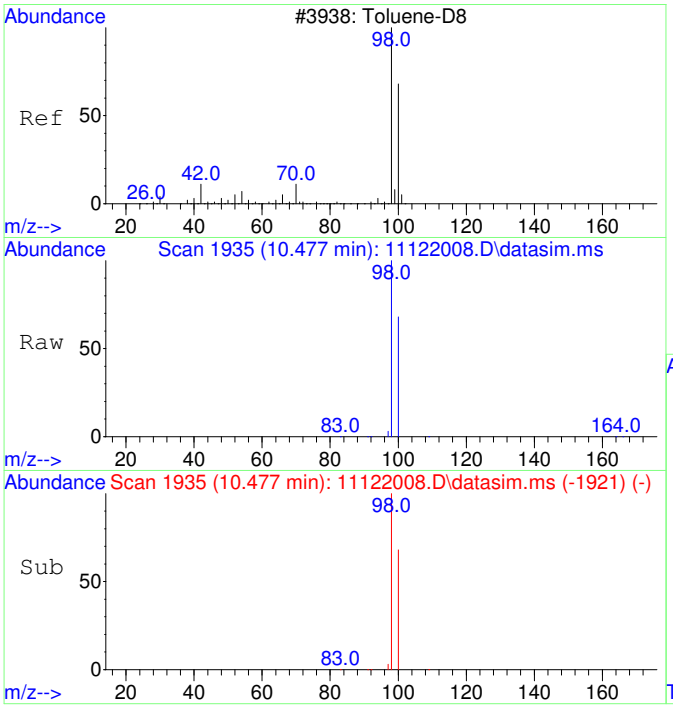


#11
Trichloroethene
Concen: 45.27 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:130 Resp: 980

Ion	Ratio	Lower	Upper
130	100		
95	100.6	60.7	120.7
132	98.1	76.0	116.0
97	65.3	38.6	78.6

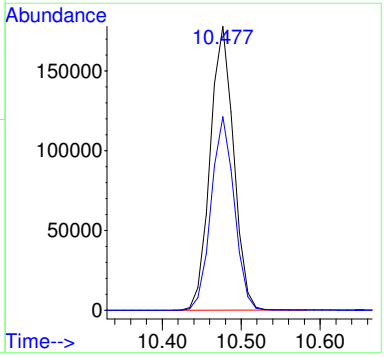


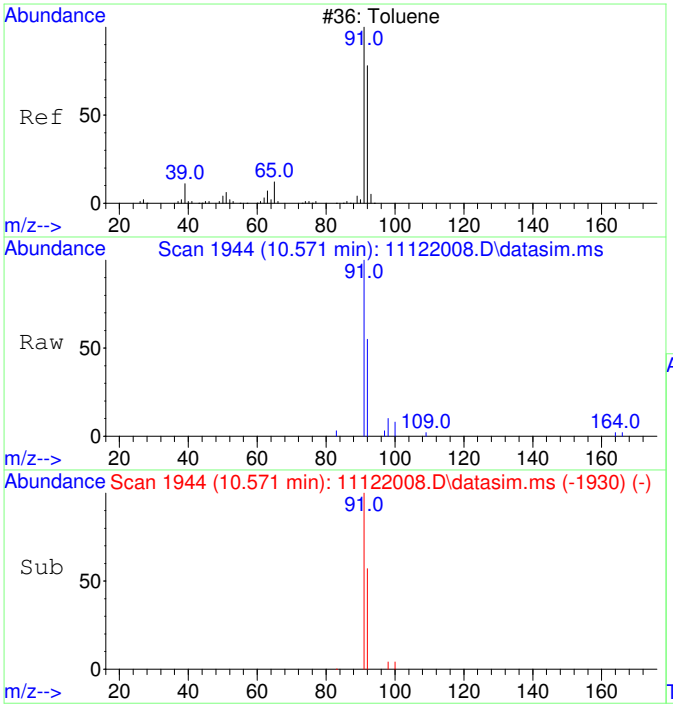


#12
Toluene-d8
Concen: 4426.65 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 98 Resp: 366672

Ion	Ratio	Lower	Upper
98	100		
100	67.0	37.1	97.1

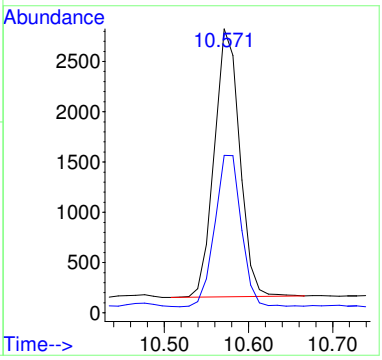


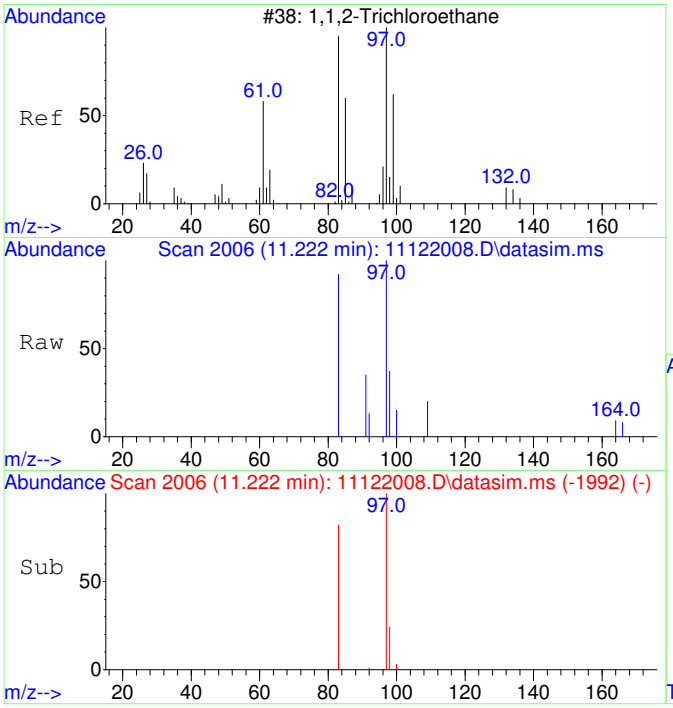


#13
Toluene
Concen: 53.00 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 5597

Ion	Ratio	Lower	Upper
91	100		
92	58.7	29.9	89.9

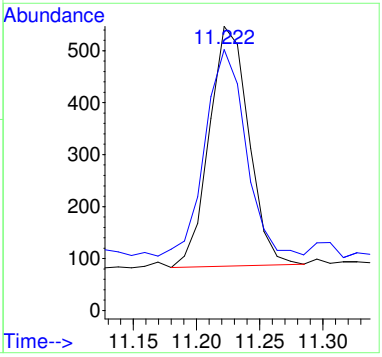


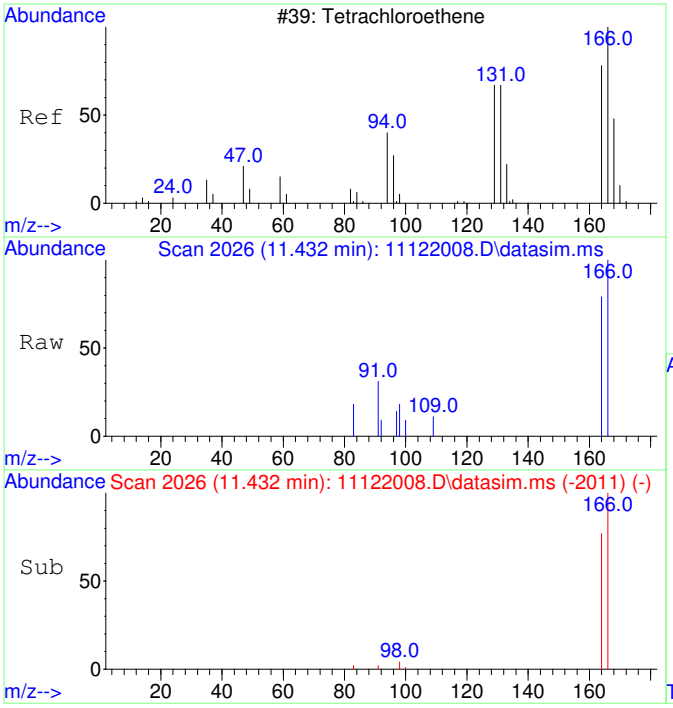


#14
1,1,2-Trichloroethane
Concen: 43.63 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 1004

Ion	Ratio	Lower	Upper
97	100		
83	87.6	51.2	111.2

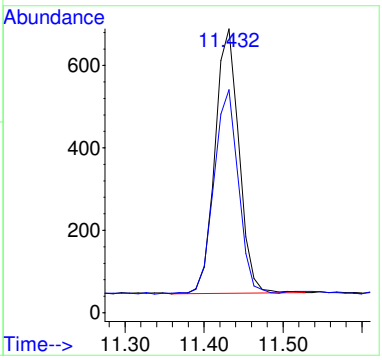


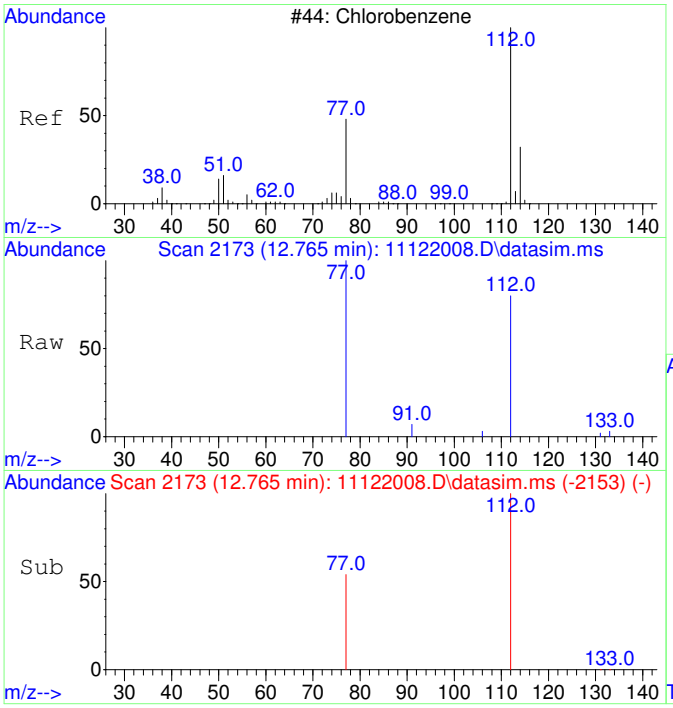


#15
Tetrachloroethene
Concen: 44.14 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:166 Resp: 1349

Ion	Ratio	Lower	Upper
166	100		
164	78.7	47.8	107.8

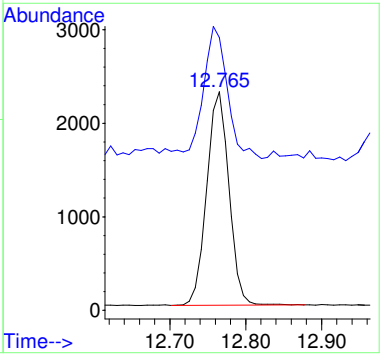


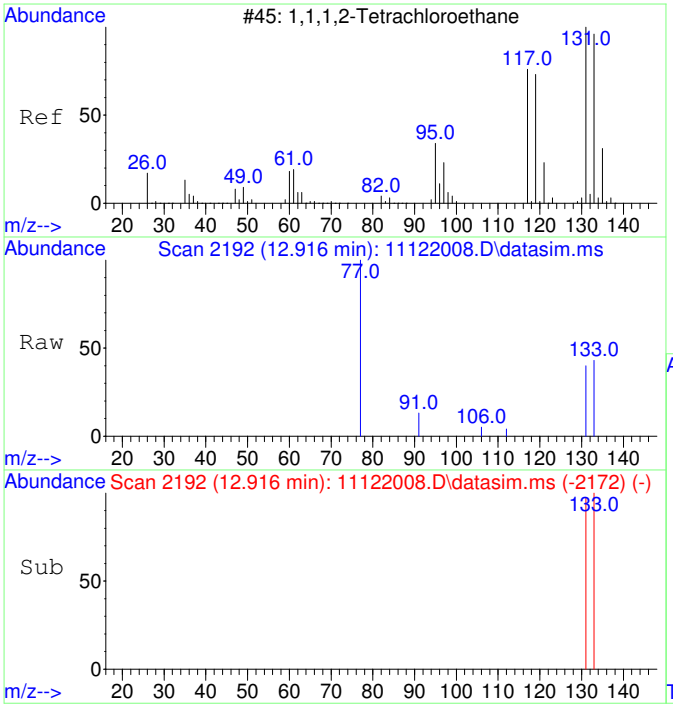


#16
Chlorobenzene
Concen: 61.49 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:112 Resp: 4650

Ion	Ratio	Lower	Upper
112	100		
77	65.8	23.6	83.6

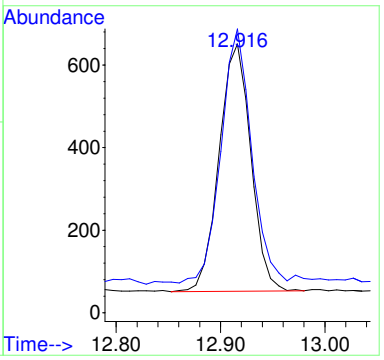


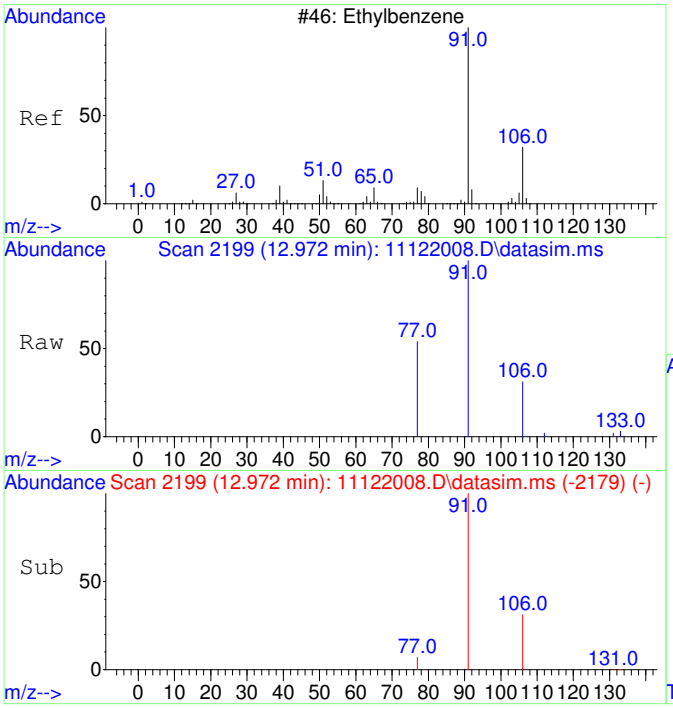


#17
1,1,1,2-Tetrachloroethane
Concen: 46.65 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:131 Resp: 1264

Ion	Ratio	Lower	Upper
131	100		
133	100.9	66.3	126.3

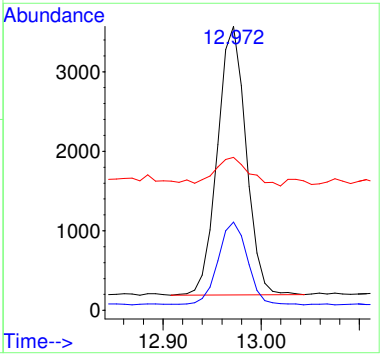


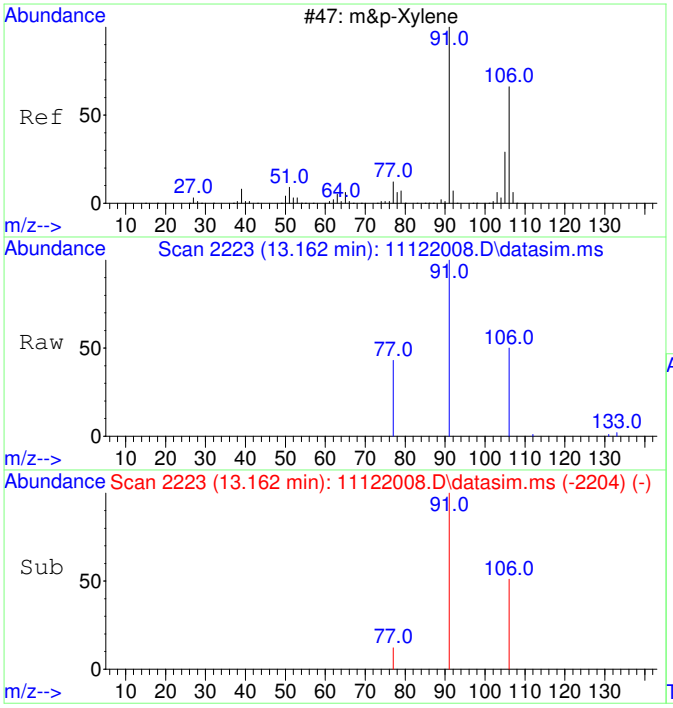


#18
Ethylbenzene
Concen: 52.91 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 6801

Ion	Ratio	Lower	Upper
91	100		
106	31.4	3.0	63.0
77	13.2	0.0	38.2

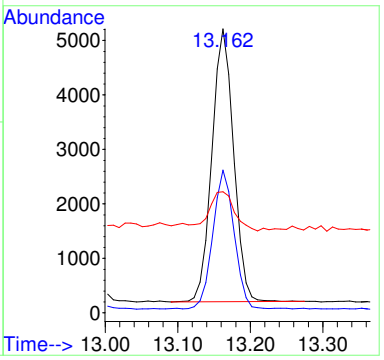


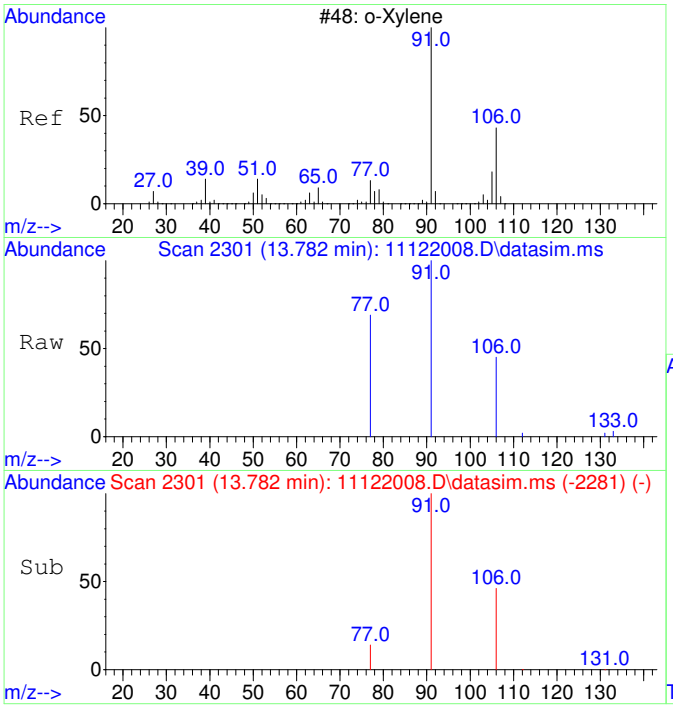


#19
m&p-Xylene
Concen: 103.68 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 10416

Ion	Ratio	Lower	Upper
91	100		
106	49.8	22.2	82.2
77	17.0	0.0	42.4

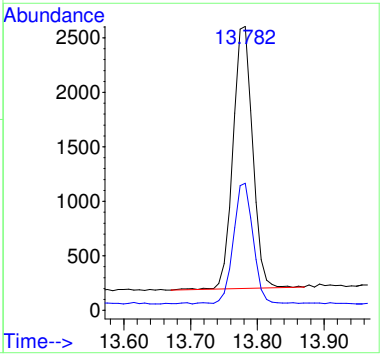


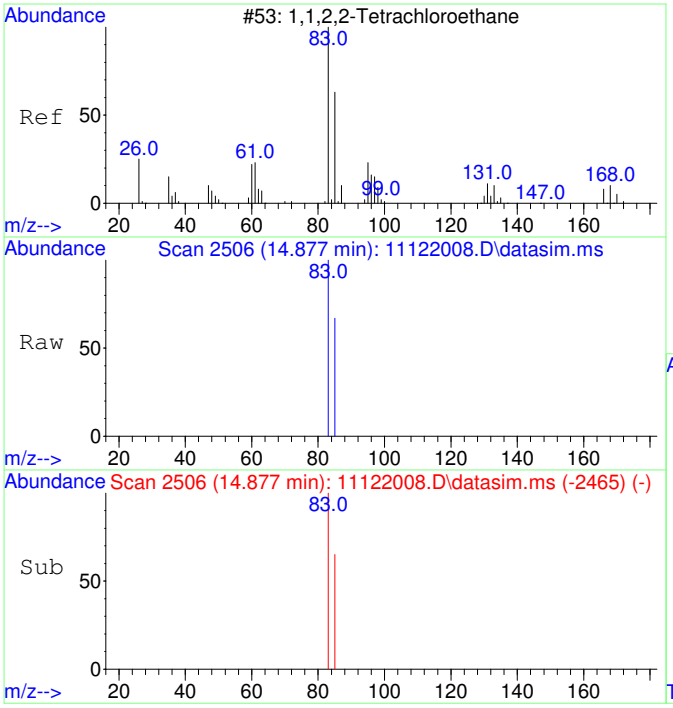


#20
o-Xylene
Concen: 45.76 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 4912

Ion	Ratio	Lower	Upper
91	100		
106	45.9	19.2	79.2

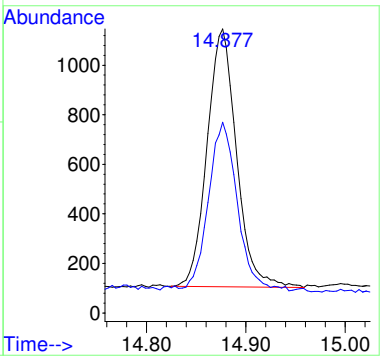


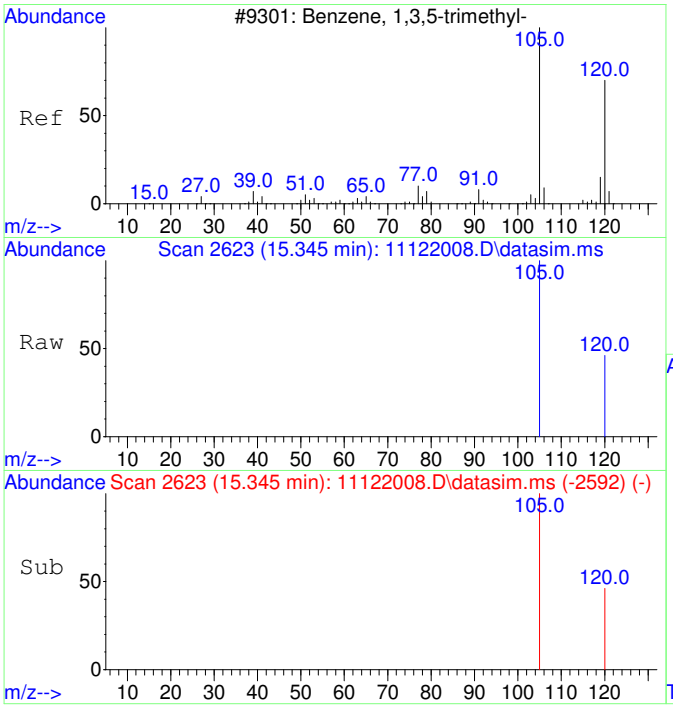


#21
1,1,2,2-Tetrachloroethane
Concen: 45.03 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. 0.004 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 2142

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.8	94.8

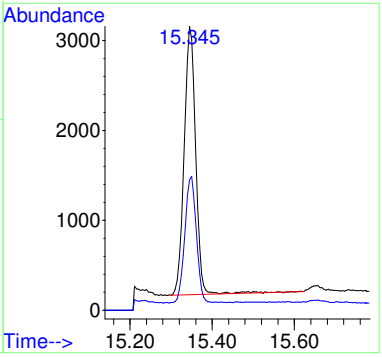


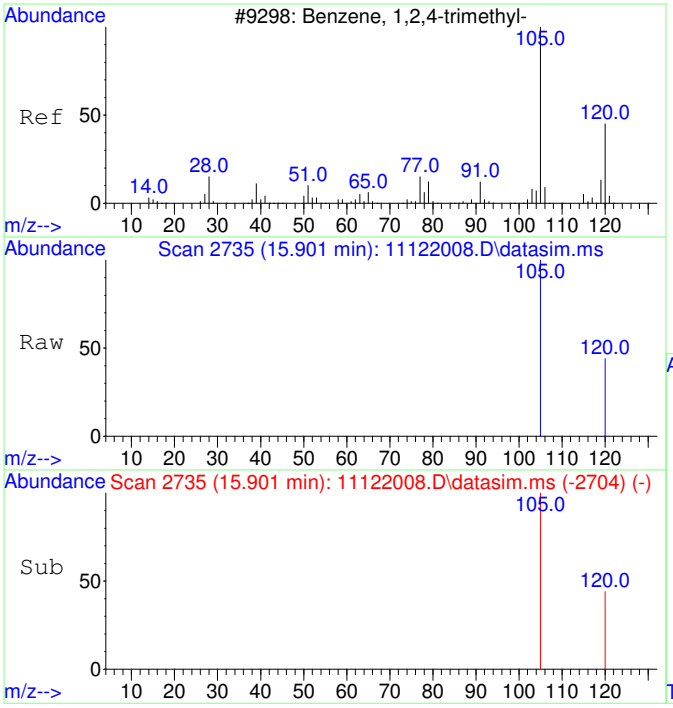


#22
1,3,5-Trimethylbenzene
Concen: 50.66 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 5787

Ion	Ratio	Lower	Upper
105	100		
120	46.4	21.1	81.1

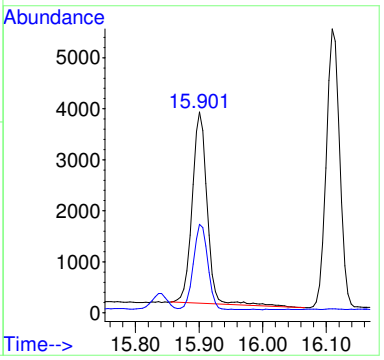


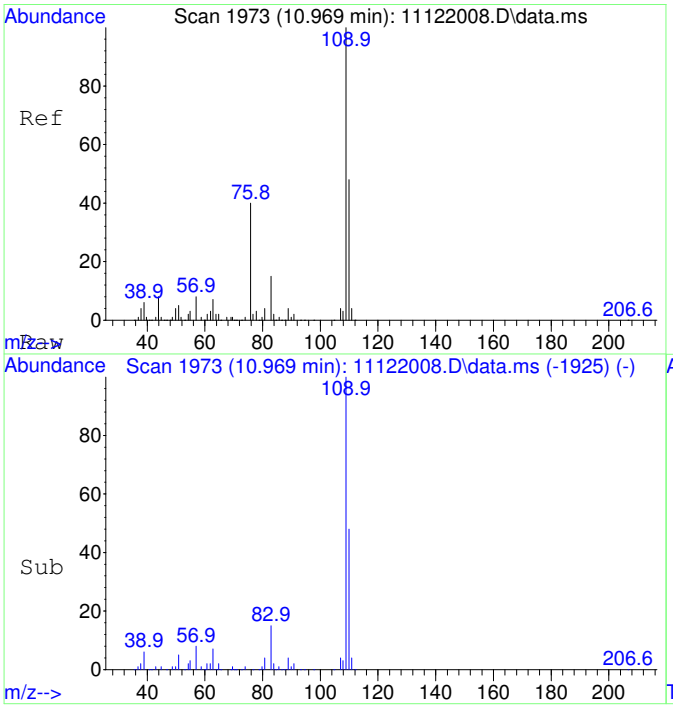


#23
1,2,4-Trimethylbenzene
Concen: 51.64 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 6128

Ion	Ratio	Lower	Upper
105	100		
120	41.9	17.2	77.2

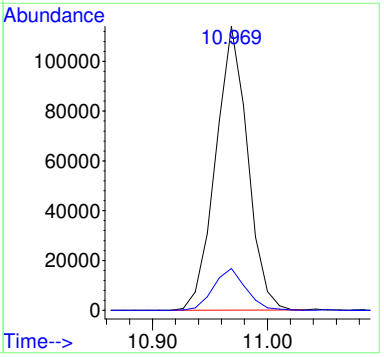


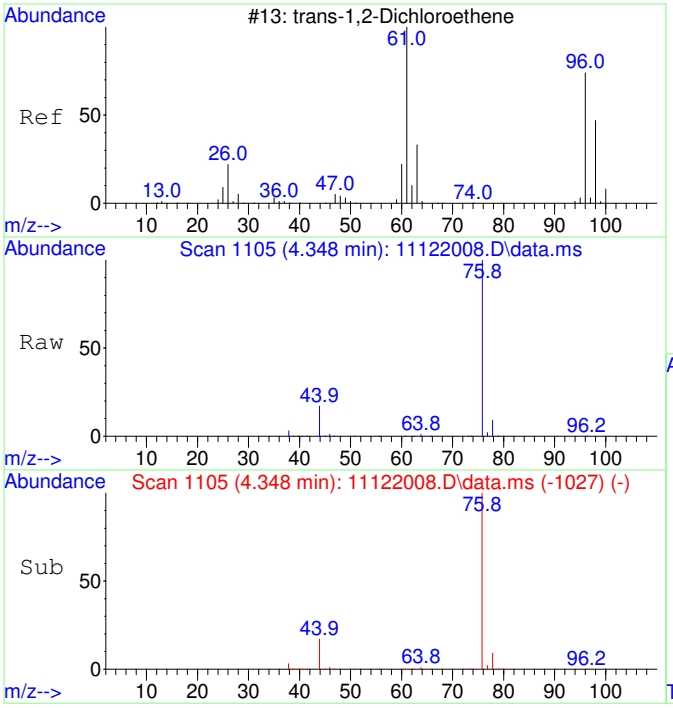


#25
2-Fluorotoluene SCAN
Concen: 5342.39 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:109 Resp: 220361

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	43.8

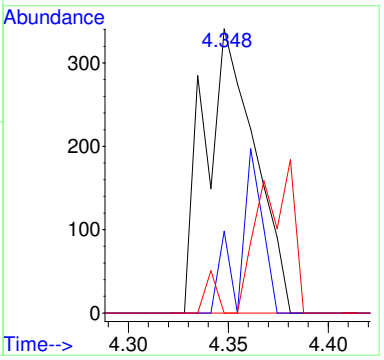


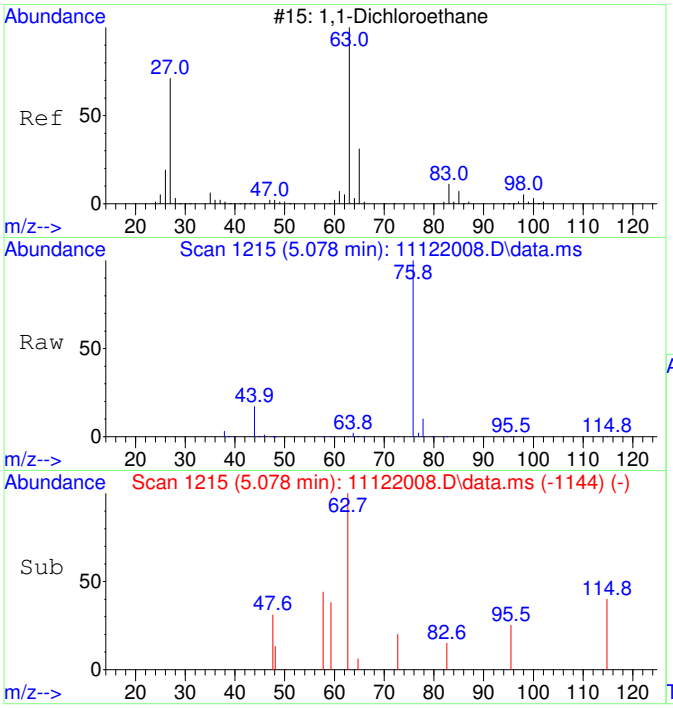


#27
trans-1,2-Dichloroethene SCAN
Concen: 55.63 ug/L
RT: 4.348 min Scan# 1105
Delta R.T. -0.053 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 603

Ion	Ratio	Lower	Upper
61	100		
96	26.2	49.0	109.0#
98	0.0	20.5	80.5#

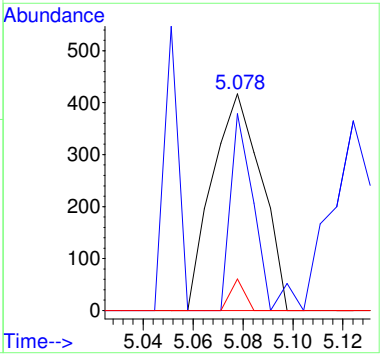


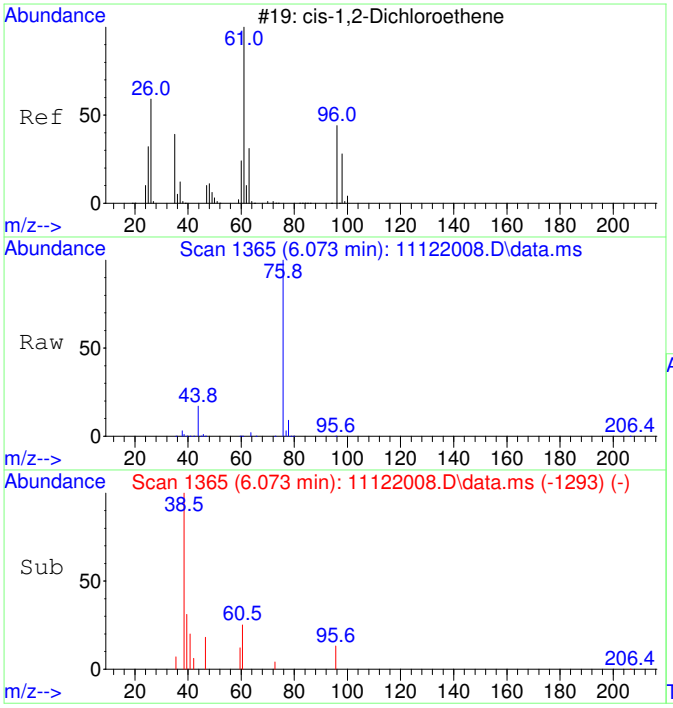


#28
1,1-Dichloroethane SCAN
Concen: 45.60 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. -0.027 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 63 Resp: 572

Ion	Ratio	Lower	Upper
63	100		
65	44.4	1.3	61.3
83	0.0	0.0	45.9

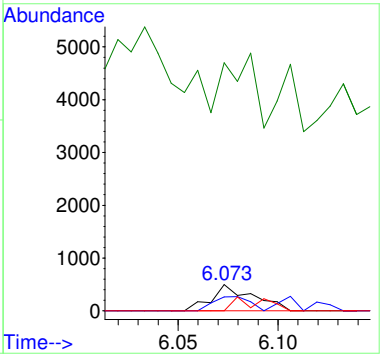


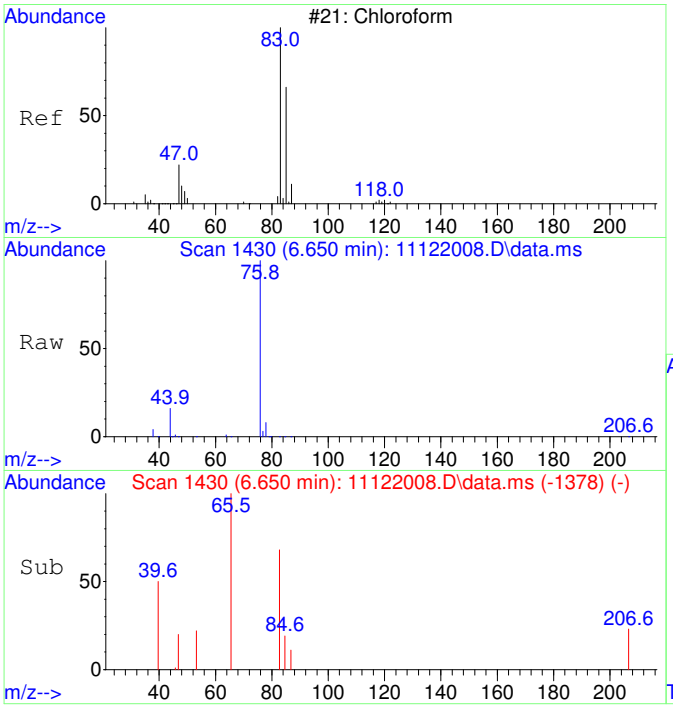


#29
cis-1,2-Dichloroethene SCAN
Concen: 53.94 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.020 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 725

Ion	Ratio	Lower	Upper
61	100		
96	46.8	39.9	99.9
98	37.5	13.5	73.5
64	162.3	4.5	64.5#

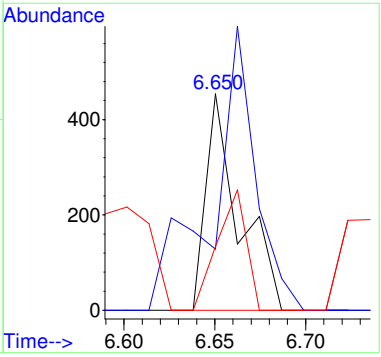


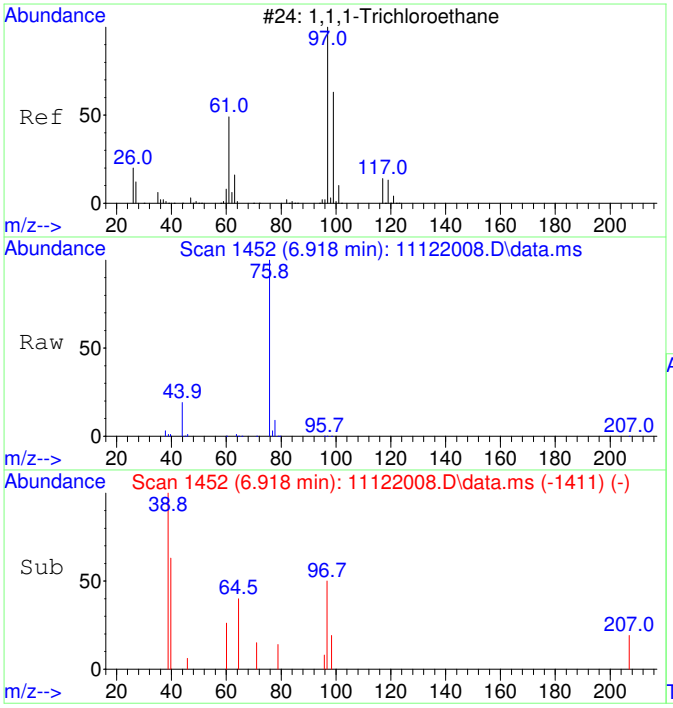


#30
Chloroform SCAN
Concen: 39.58 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 577

Ion	Ratio	Lower	Upper
83	100		
85	172.4	34.6	94.6#
47	48.9	0.0	53.4

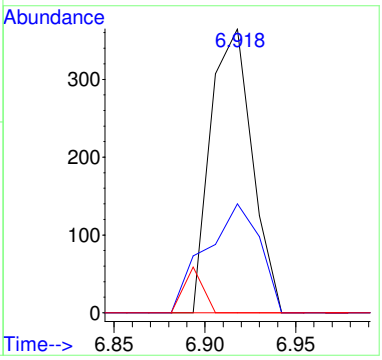


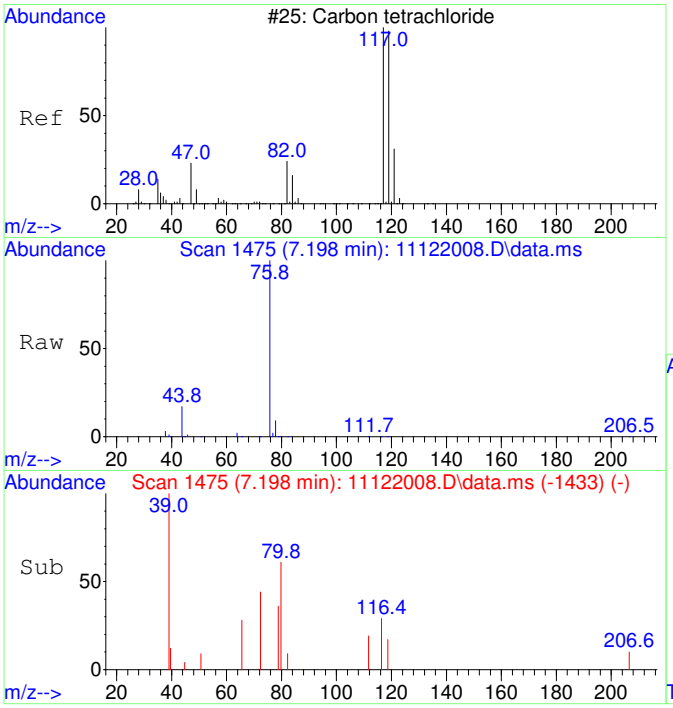


#31
1,1,1-Trichloroethane SCAN
Concen: 43.81 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 582

Ion	Ratio	Lower	Upper
97	100		
99	50.0	43.6	103.6
61	0.0	18.0	78.0#

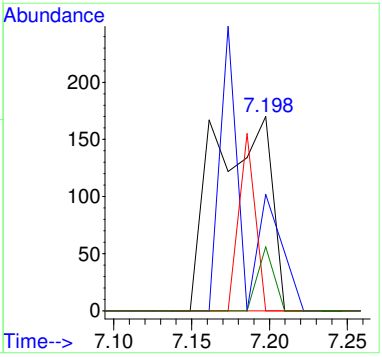


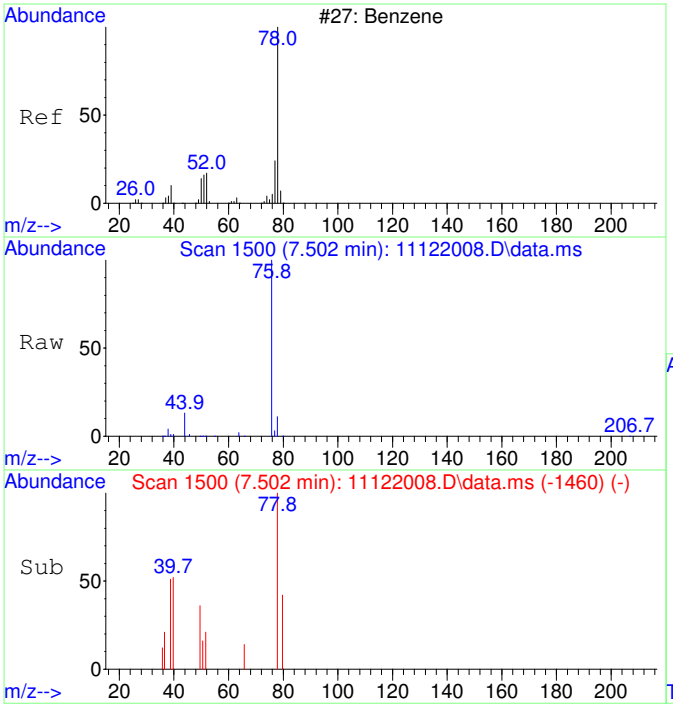


#32
Carbon tetrachloride SCAN
Concen: 31.25 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. 0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:117 Resp: 433

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	26.1	0.0	58.8
82	0.0	0.0	59.2

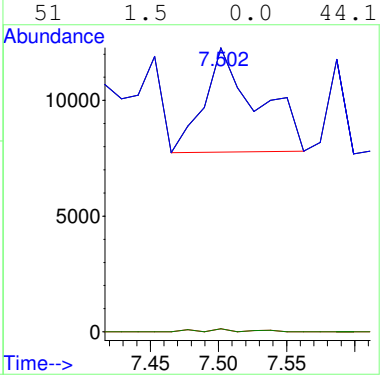


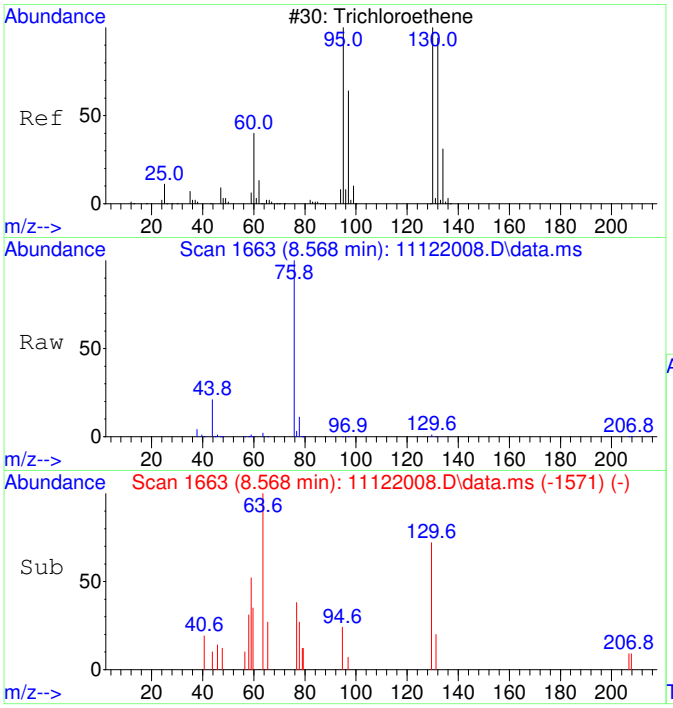


#33
Benzene SCAN
Concen: 332.39 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 78 Resp: 12158

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.5	0.0	47.9
51	1.5	0.0	44.1

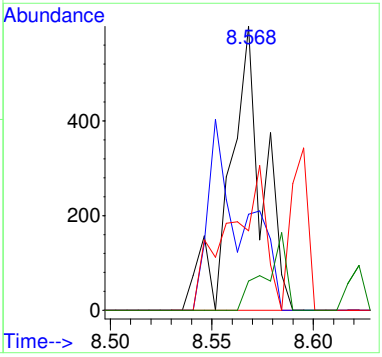


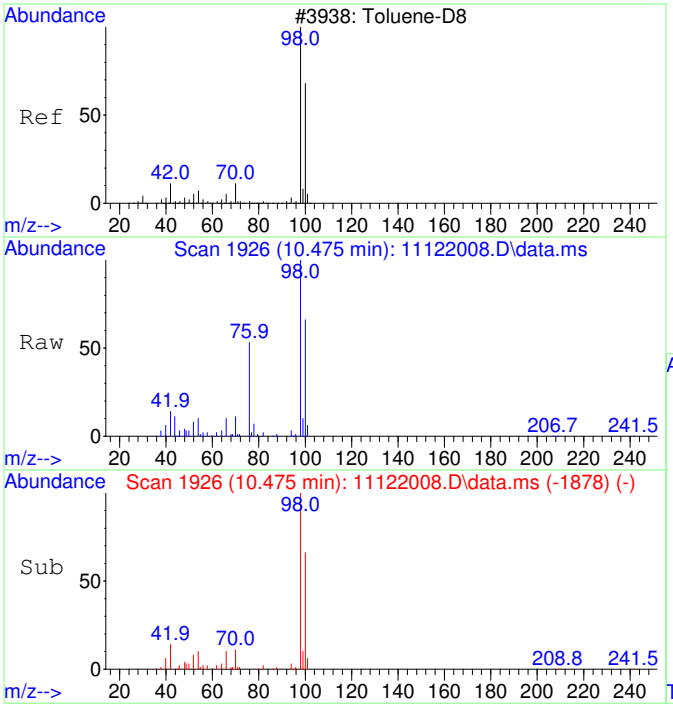


#35
Trichloroethene SCAN
Concen: 67.45 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:130 Resp: 678

Ion	Ratio	Lower	Upper
130	100		
95	0.0	60.5	120.5#
132	58.0	59.6	119.6#
97	0.0	28.2	88.2#

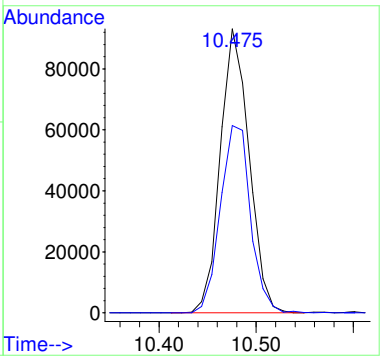


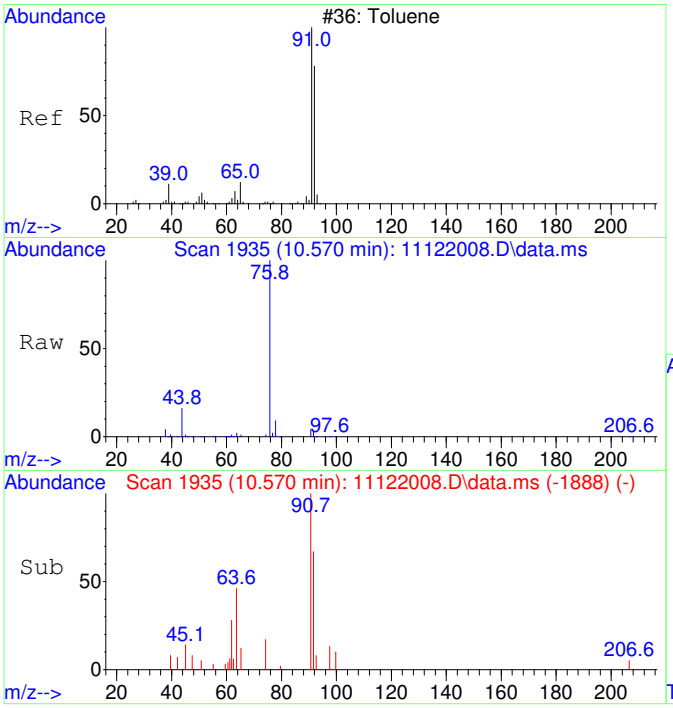


#36
Toluene-d8 SCAN
Concen: 4739.46 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 98 Resp: 191185

Ion	Ratio	Lower	Upper
98	100		
100	69.1	40.0	100.0

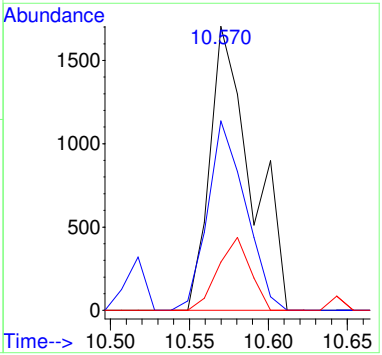


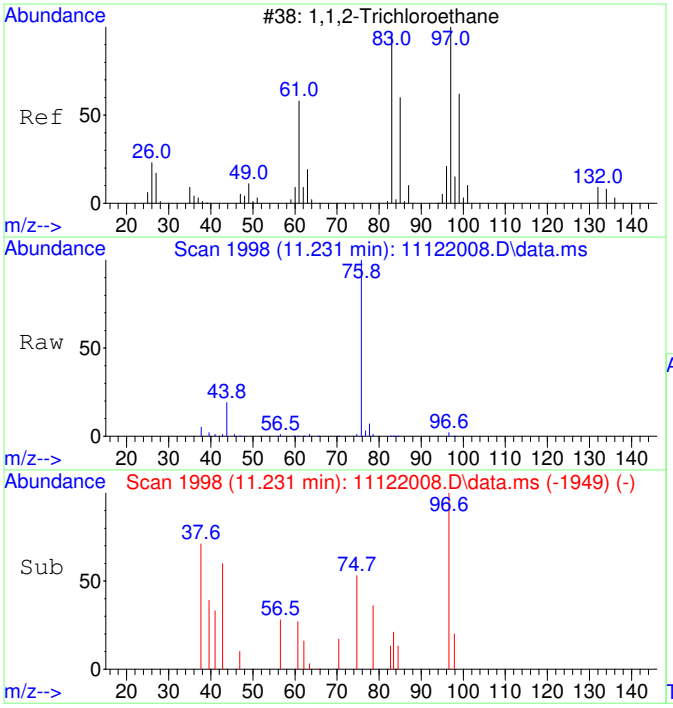


#37
Toluene SCAN
Concen: 60.20 ug/L
RT: 10.570 min Scan# 1935
Delta R.T. -0.011 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 3110

Ion	Ratio	Lower	Upper
91	100		
92	61.1	28.3	88.3
65	20.1	0.0	41.0

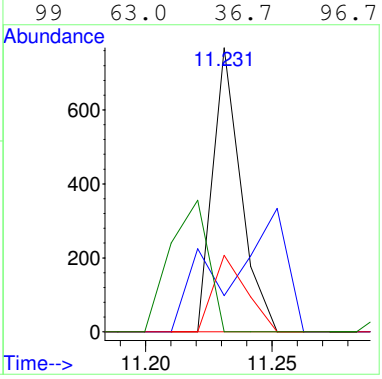


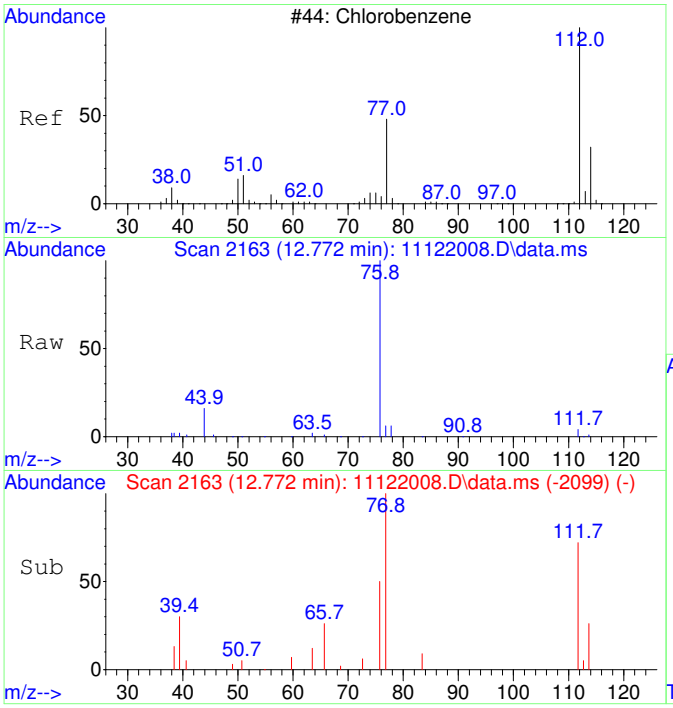


#38
1,1,2-Trichloroethane SCAN
Concen: 51.31 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. 0.010 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 595

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	31.9	32.1	92.1#
99	63.0	36.7	96.7

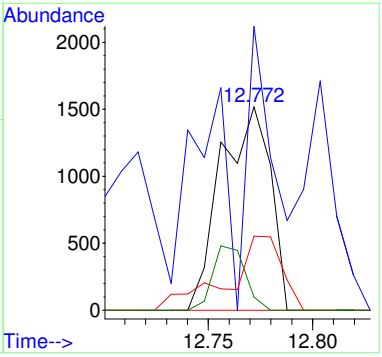


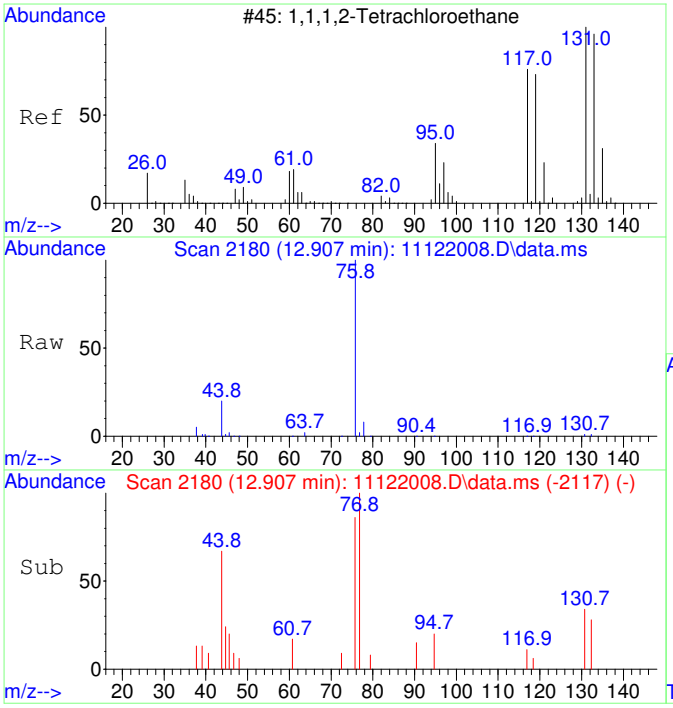


#40
Chlorobenzene SCAN
Concen: 71.19 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:112 Resp: 2513

Ion	Ratio	Lower	Upper
112	100		
77	55.4	28.2	88.2
114	39.6	2.3	62.3
51	0.0	0.0	50.1

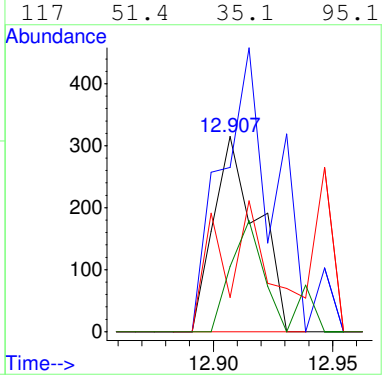


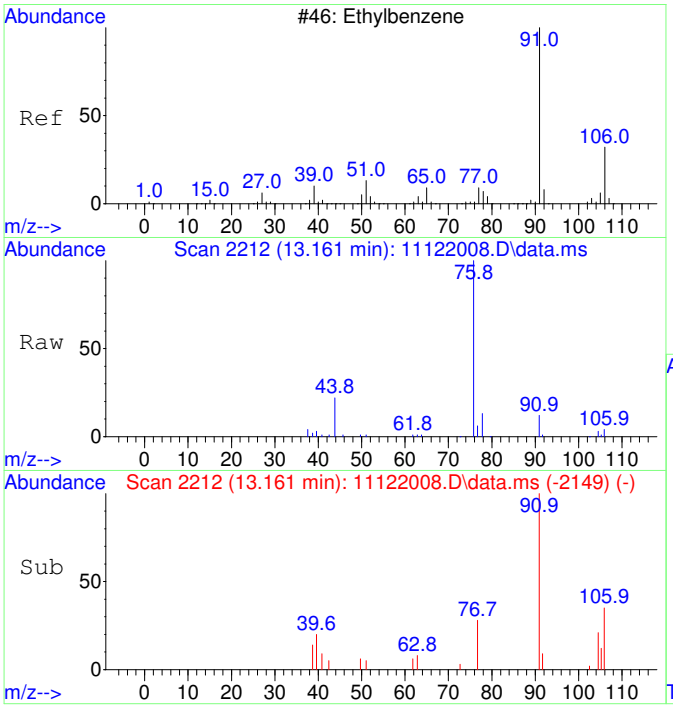


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 30.70 ug/L
RT: 12.907 min Scan# 2180
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:131 Resp: 401

Ion	Ratio	Lower	Upper
131	100		
133	183.5	66.9	126.9#
119	59.1	40.4	100.4
117	51.4	35.1	95.1

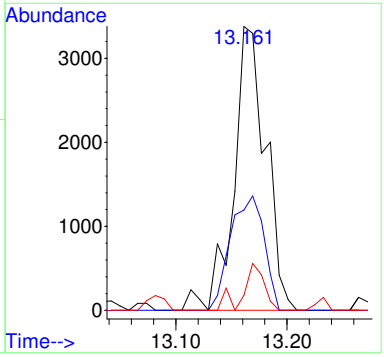


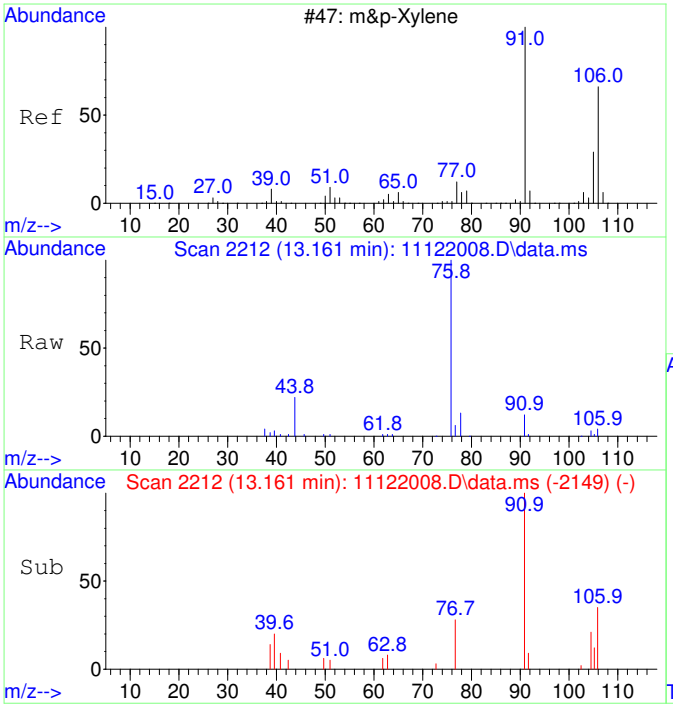


#42
Ethylbenzene SCAN
Concen: 71.99 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 6775

Ion	Ratio	Lower	Upper
91	100		
106	42.4	23.1	83.1
51	10.8	0.0	40.1

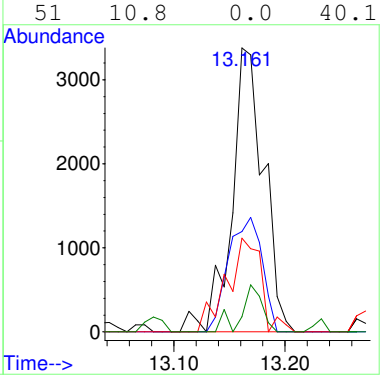


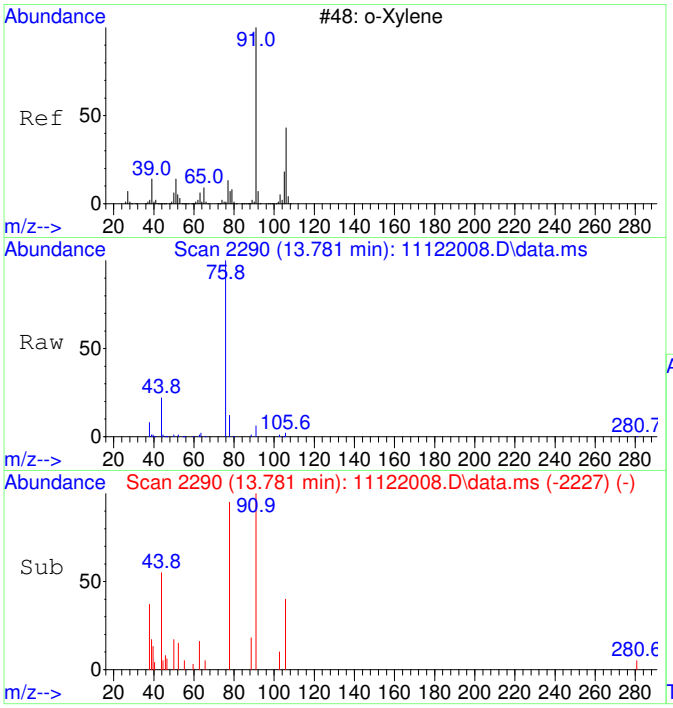


#43
m&p-Xylene SCAN
Concen: 71.99 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 6775

Ion	Ratio	Lower	Upper
91	100		
106	42.4	23.1	83.1
105	35.3	0.0	54.7
51	10.8	0.0	40.1

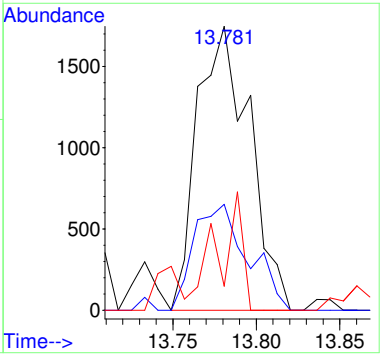


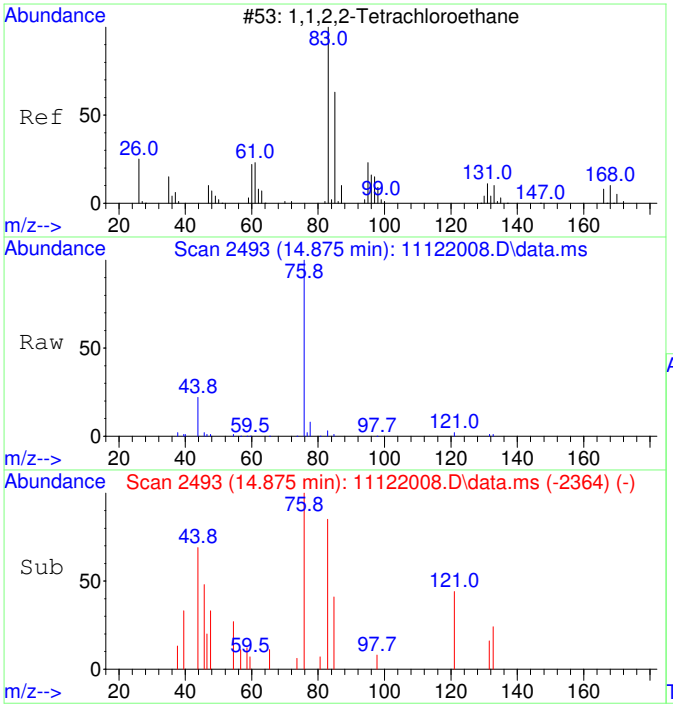


#44
o-Xylene SCAN
Concen: 75.99 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 3828

Ion	Ratio	Lower	Upper
91	100		
106	38.4	18.0	78.0
105	17.2	0.0	56.6

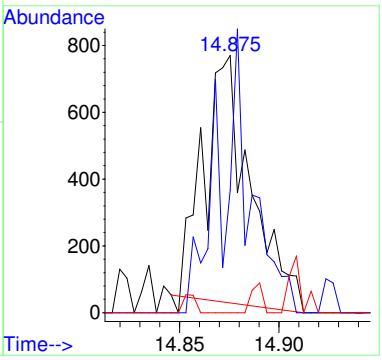


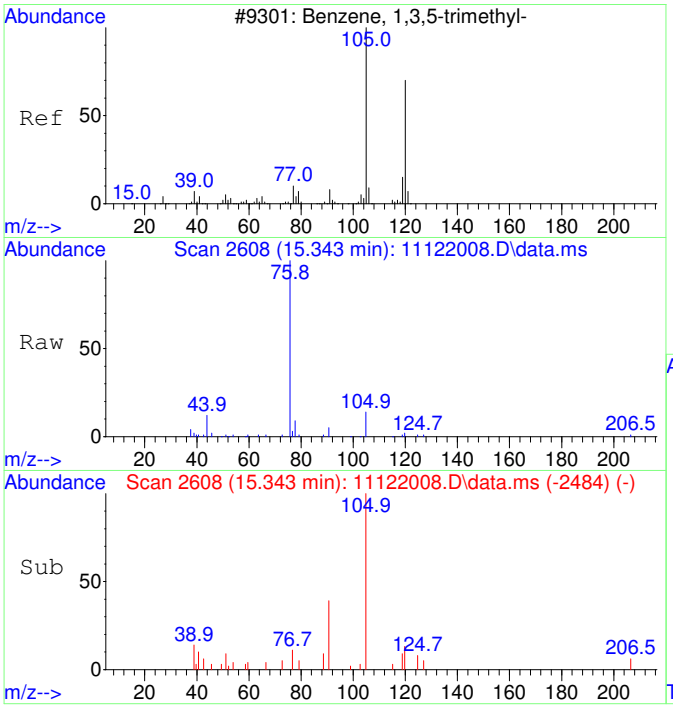


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 48.89 ug/L
RT: 14.875 min Scan# 2493
Delta R.T. 0.004 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 1201

Ion	Ratio	Lower	Upper
83	100		
85	36.7	35.9	95.9
95	0.0	0.0	47.4

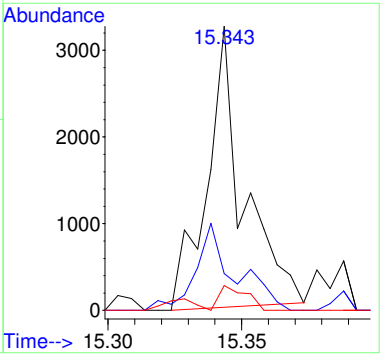


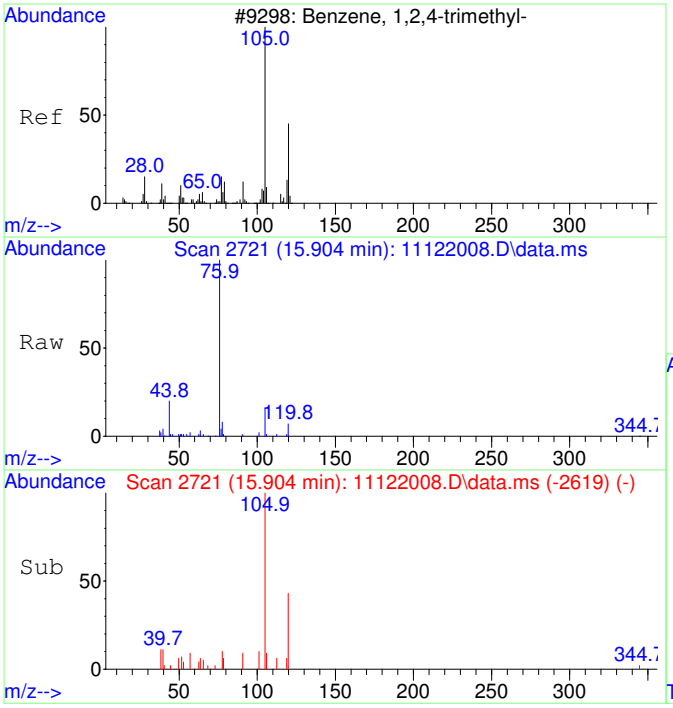


#46
1,3,5-Trimethylbenzene SCAN
Concen: 58.09 ug/L
RT: 15.343 min Scan# 2608
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 3084

Ion	Ratio	Lower	Upper
105	100		
120	33.4	18.3	78.3
119	6.6	0.0	43.1

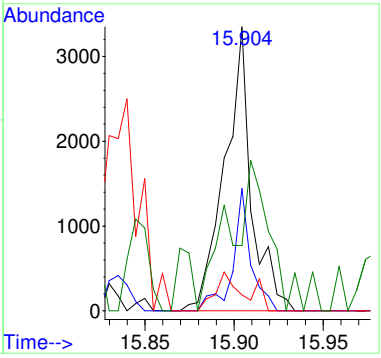




#47
1,2,4-Trimethylbenzene SCAN
Concen: 64.37 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 3497

Ion	Ratio	Lower	Upper
105	100		
120	28.9	16.9	76.9
119	0.0	0.0	41.9
77	24.9	0.0	42.3



2011015-01

Quantitation Report (Not Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122009.D
Acq On : 12 Nov 2020 11:37
InstName : AG5975C
Operator : TD
Sample : 2011015-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Before Manual Integration

Quant Time: Nov 12 11:56:44 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

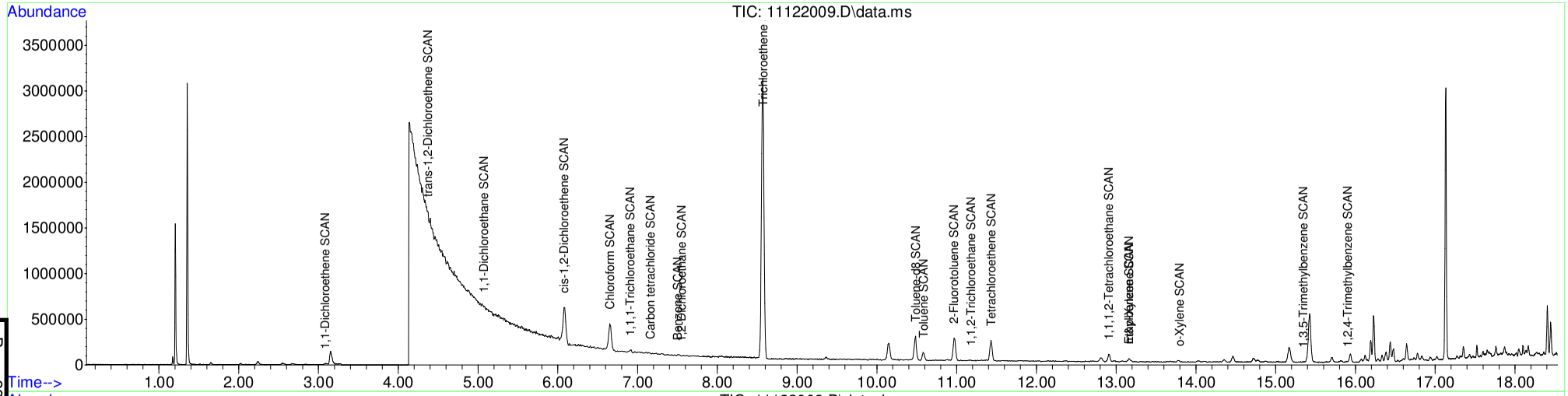
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	396595	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	343084	4419.04 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.38%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	16370	1033.68 ug/L	84
3] trans-1,2-Dichloroethene	4.362	61	31633	1728.84 ug/L	99
4] 1,1-Dichloroethane	5.079	63	15841	695.50 ug/L	99
5] cis-1,2-Dichloroethene	6.081	61	552860	22995.41 ug/L	99
6] Chloroform	6.652	83	476351	19357.49 ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	18877	706.35 ug/L	99
8] Carbon tetrachloride	7.175	117	2998	119.19 ug/L	100
9] Benzene	7.503	78	8968	133.09 ug/L	72
10] 1,2-Dichloroethane	7.540	62	3567	148.29 ug/L	47
11] Trichloroethene	8.569	130	2156747	106304.70 ug/L OC	92
13] Toluene	10.582	91	132131	1334.91 ug/L	99
14] 1,1,2-Trichloroethane	11.159	97	873	40.48 ug/L #	22
15] Tetrachloroethene	11.432	166	145379	5075.21 ug/L	100
16] Chlorobenzene	12.765	112	1564	22.07 ug/L	79
17] 1,1,1,2-Tetrachloroethane	12.908	131	1376	54.18 ug/L #	44
18] Ethylbenzene	12.972	91	11415	94.75 ug/L	97
19] m&p-Xylene	13.162	91	37834	401.79 ug/L	95
20] o-Xylene	13.774	91	19170	190.55 ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.869	83	1606	36.02 ug/L #	25
22] 1,3,5-Trimethylbenzene	15.343	105	4877	45.55 ug/L	84
23] 1,2,4-Trimethylbenzene	15.899	105	5312	47.76 ug/L	90
25) 2-Fluorotoluene SCAN	10.969	109	200659	5190.26 ug/L	96
26) 1,1-Dichloroethene SCAN	3.081	61	11799	1437.08 ug/L #	28
27) trans-1,2-Dichloroethe...	4.368	61	21288	2095.32 ug/L	79
28) 1,1-Dichloroethane SCAN	5.071	63	10953	931.54 ug/L	86
29) cis-1,2-Dichloroethene...	6.080	61	322230	25578.73 ug/L #	83
30) Chloroform SCAN	6.650	83	264112	19329.28 ug/L	92
31) 1,1,1-Trichloroethane ...	6.906	97	11946	959.39 ug/L	82
32) Carbon tetrachloride SCAN	7.161	117	1704	131.19 ug/L #	18
33) Benzene SCAN	7.502	78	14996	437.41 ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	2566	202.69 ug/L #	57
35) Trichloroethene SCAN	8.568	130	1108702	117678.64 ug/L	85
36) Toluene-d8 SCAN	10.486	98	192006	5078.32 ug/L	89
37) Toluene SCAN	10.580	91	70973	1465.78 ug/L	95
38) 1,1,2-Trichloroethane ...	11.179	97	638	58.70 ug/L #	13
39) Tetrachloroethene SCAN	11.430	166	72813	6259.30 ug/L	92
41) 1,1,1,2-Tetrachloroeth...	12.907	131	615	50.23 ug/L #	34
42) Ethylbenzene SCAN	13.161	91	21224	240.60 ug/L	88
43) m&p-Xylene SCAN	13.161	91	21224	240.60 ug/L	87
44) o-Xylene SCAN	13.789	91	10268	217.46 ug/L	87
46) 1,3,5-Trimethylbenzene...	15.342	105	2445	49.13 ug/L	79
47) 1,2,4-Trimethylbenzene...	15.903	105	3170	62.26 ug/L	85

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122009.D
Acq On : 12 Nov 2020 11:37
InstName : AG5975C
Operator : TD
Sample : 2011015-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 12 11:56:44 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



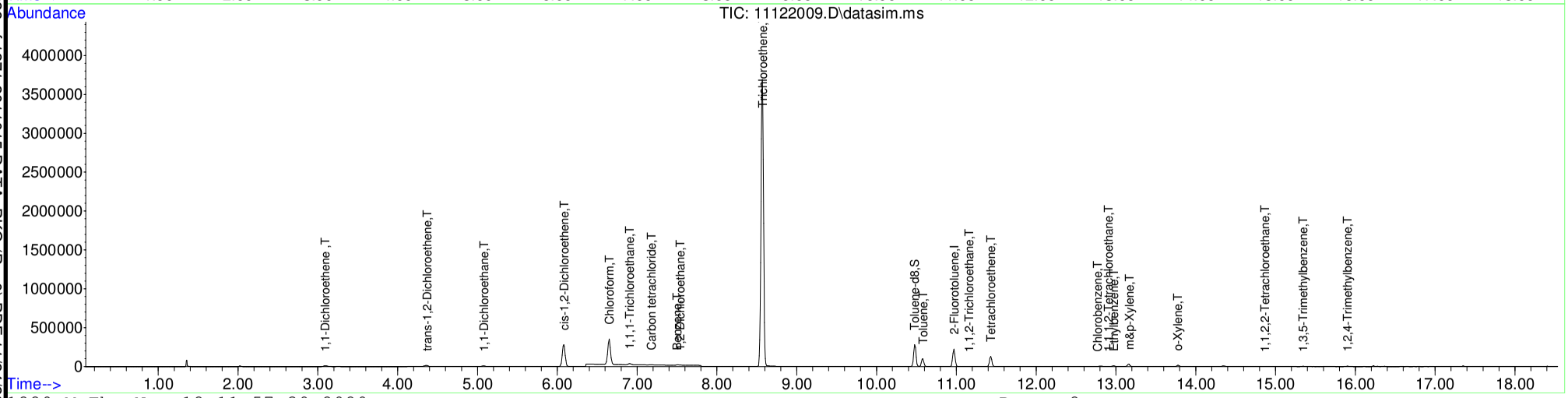
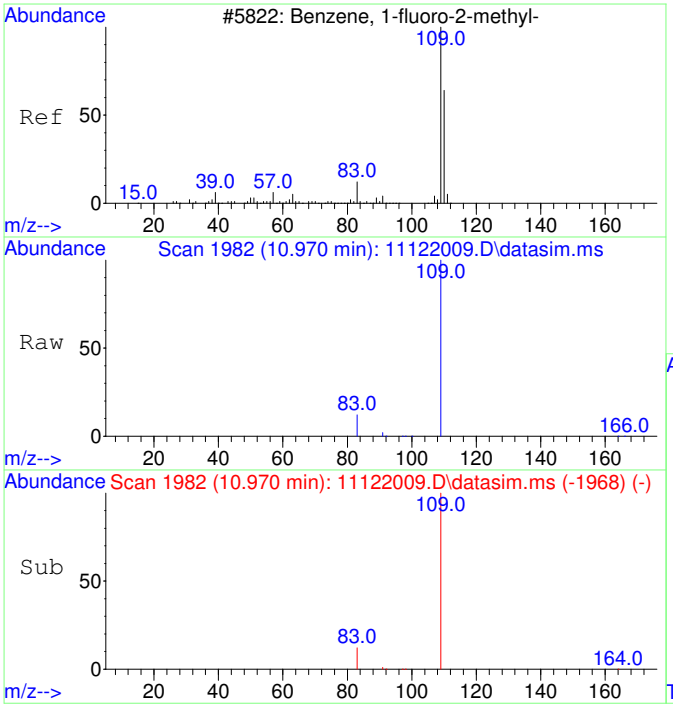


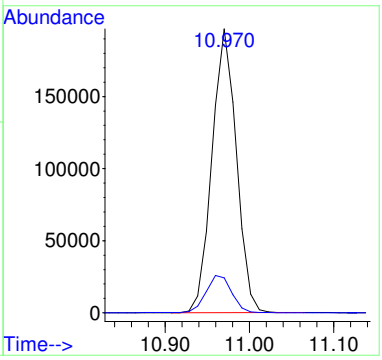
Table of Contents

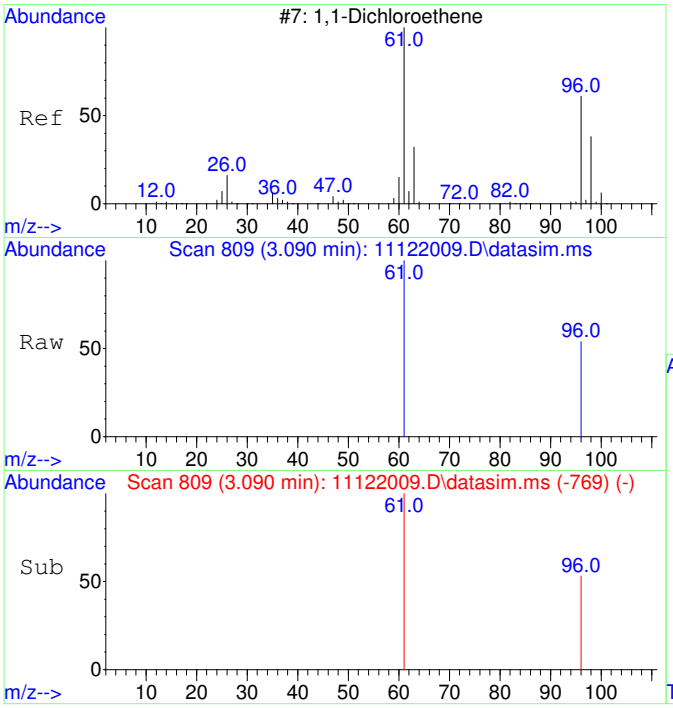


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:109 Resp: 396595

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	42.3

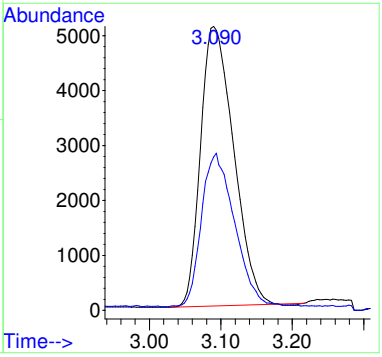




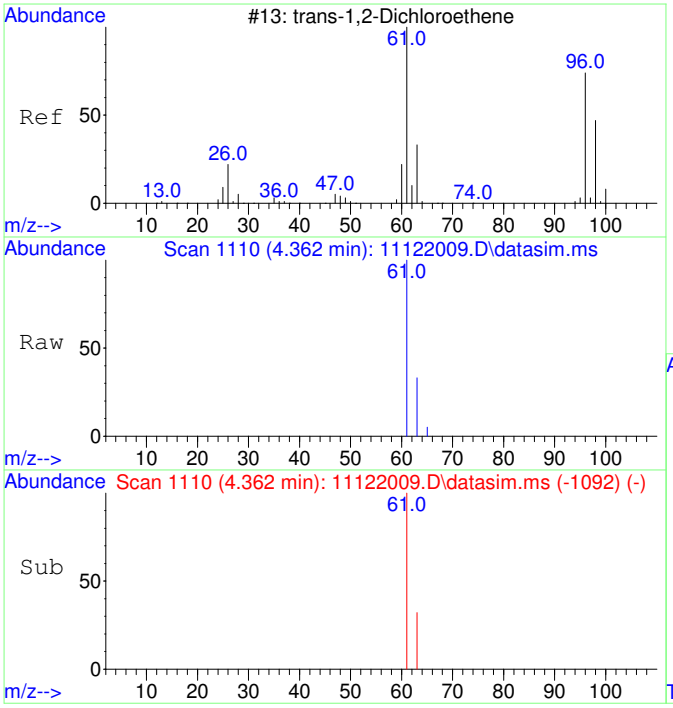
#2
1,1-Dichloroethene
Concen: 1033.68 ug/L
RT: 3.090 min Scan# 809
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 61 Resp: 16370

Ion	Ratio	Lower	Upper
61	100		
96	54.6	37.2	97.2



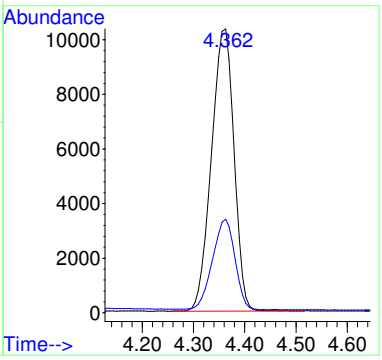
Before MI:
IMPROPER
BASELINE

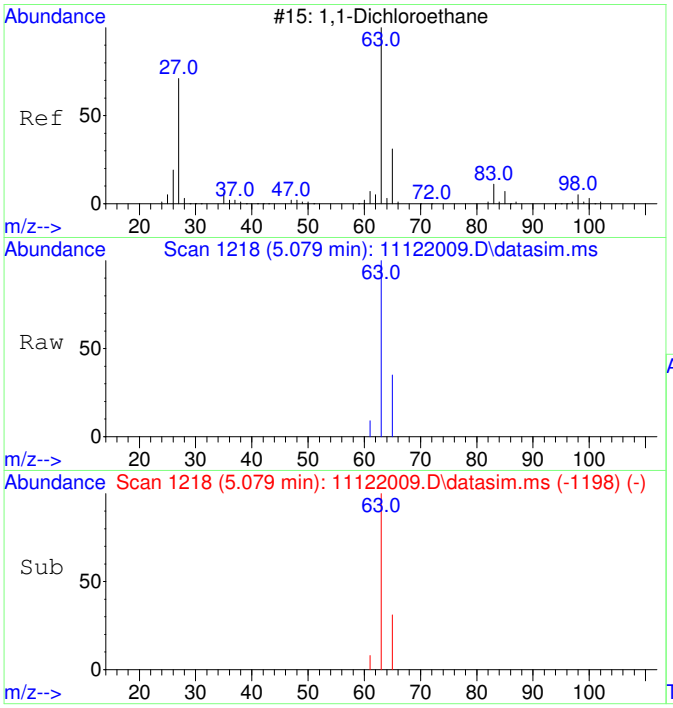


#3
trans-1,2-Dichloroethene
Concen: 1728.84 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. -0.033 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 61 Resp: 31633

Ion	Ratio	Lower	Upper
61	100		
63	31.6	2.4	62.4

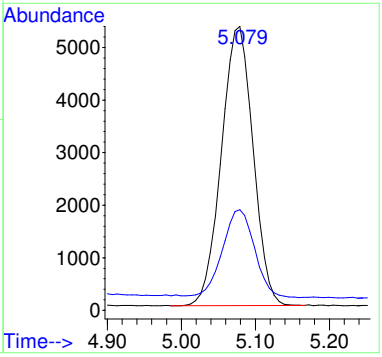


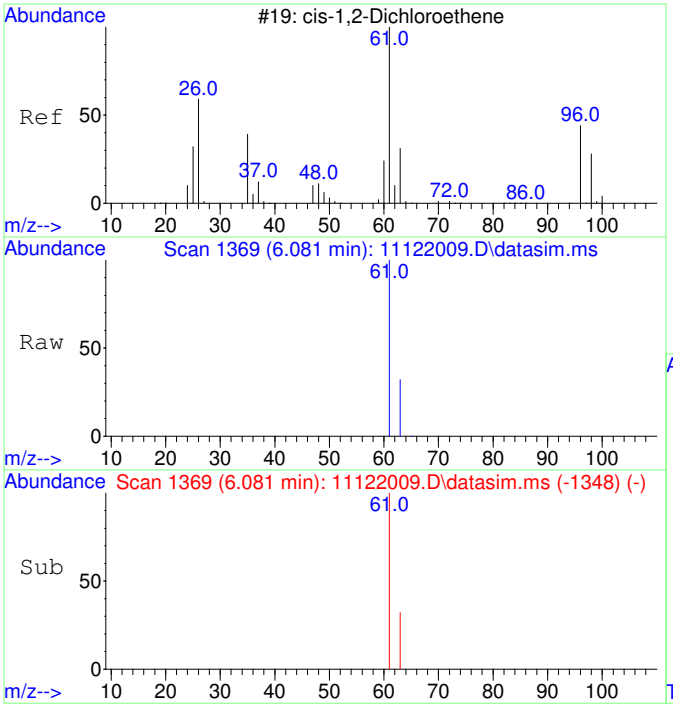


#4
1,1-Dichloroethane
Concen: 695.50 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 63 Resp: 15841

Ion	Ratio	Lower	Upper
63	100		
65	32.2	1.8	61.8

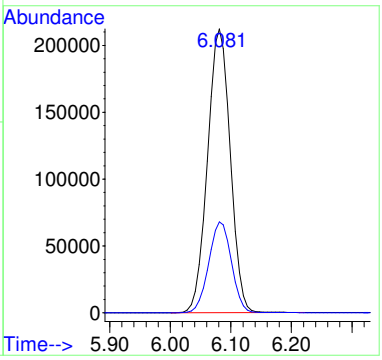


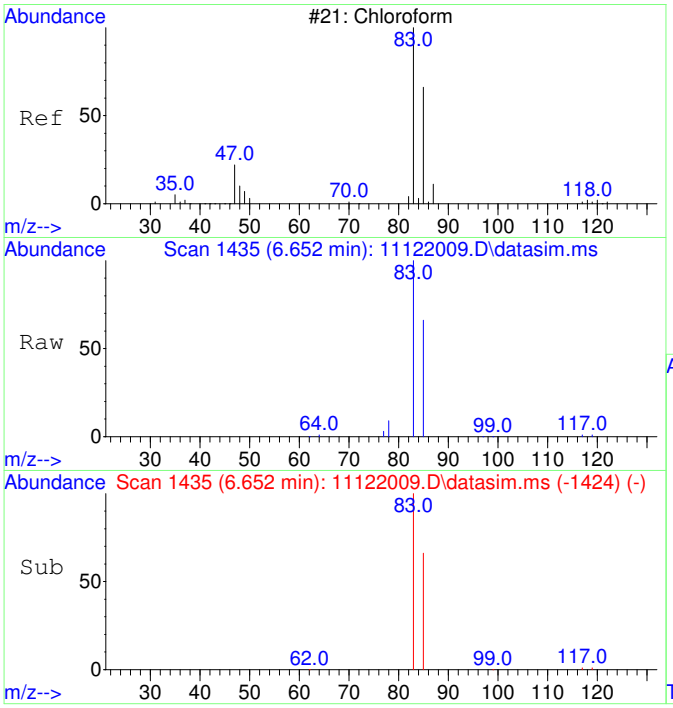


#5
cis-1,2-Dichloroethene
Concen: 22995.41 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 61 Resp: 552860

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

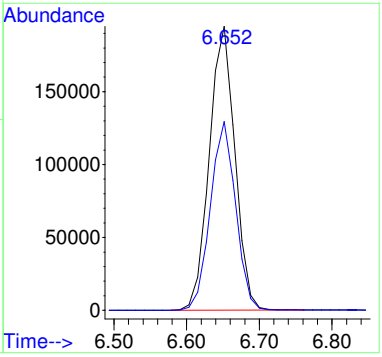


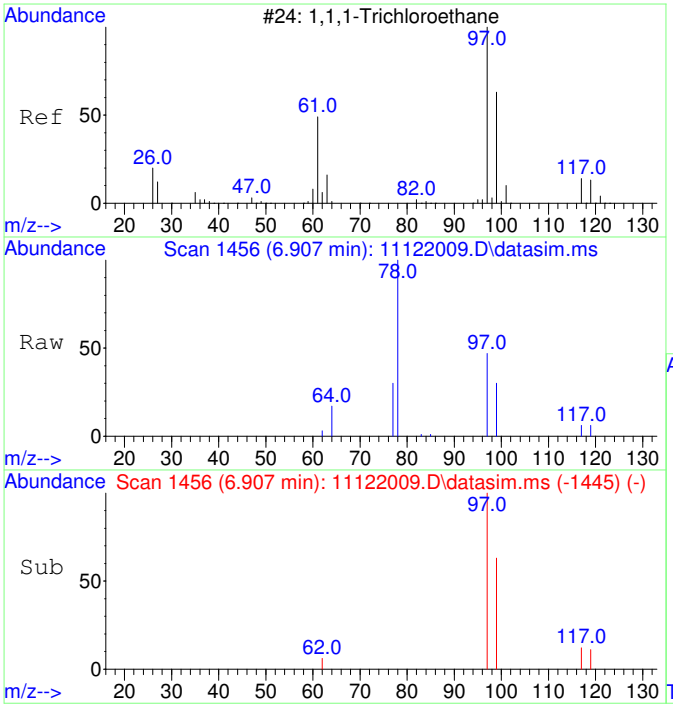


#6
Chloroform
Concen: 19357.49 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 83 Resp: 476351

Ion	Ratio	Lower	Upper
83	100		
85	65.5	35.1	95.1

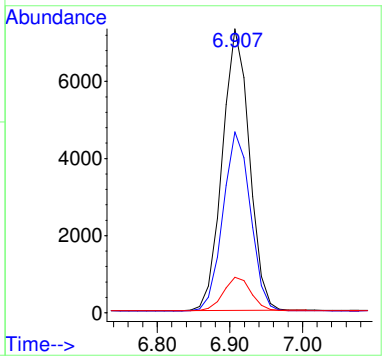


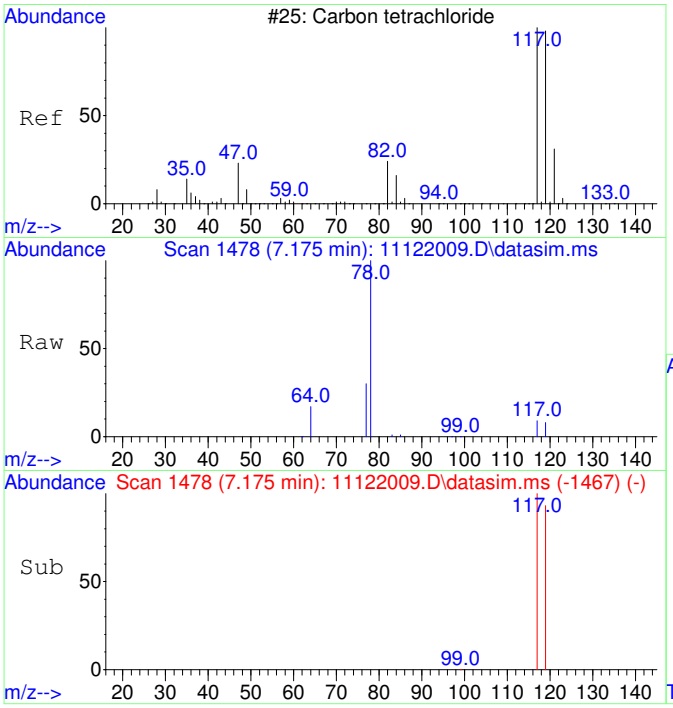


#7
1,1,1-Trichloroethane
Concen: 706.35 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 97 Resp: 18877

Ion	Ratio	Lower	Upper
97	100		
99	64.4	34.6	94.6
117	12.1	0.0	43.2

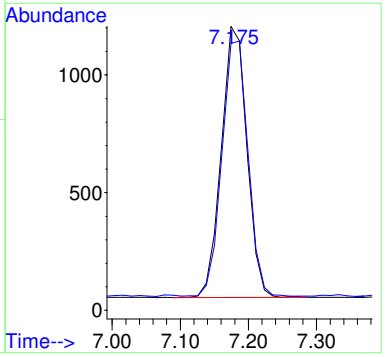


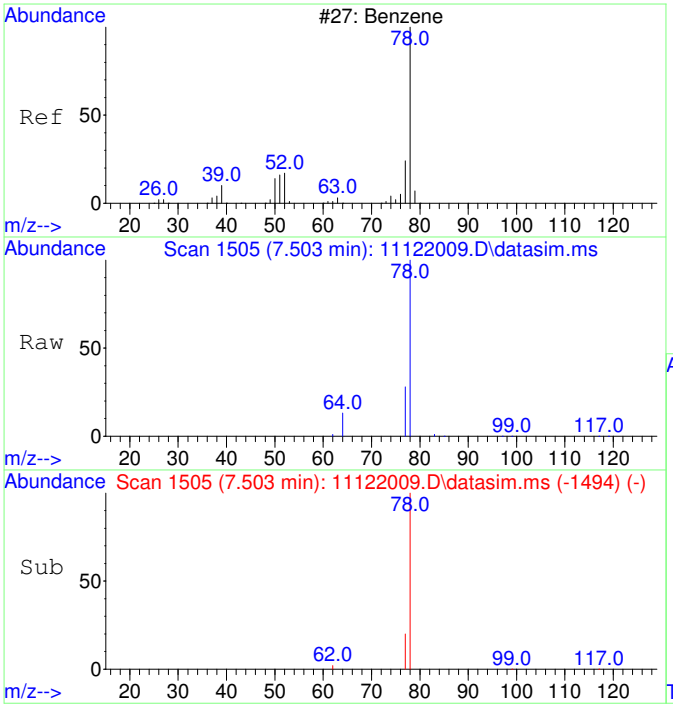


#8
Carbon tetrachloride
Concen: 119.19 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:117 Resp: 2998

Ion	Ratio	Lower	Upper
117	100		
119	96.2	66.4	126.4

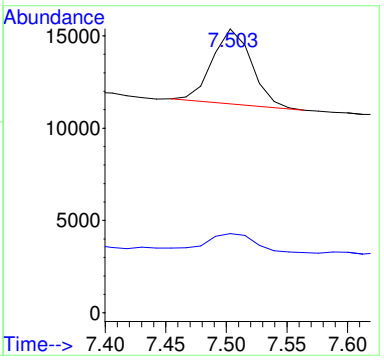


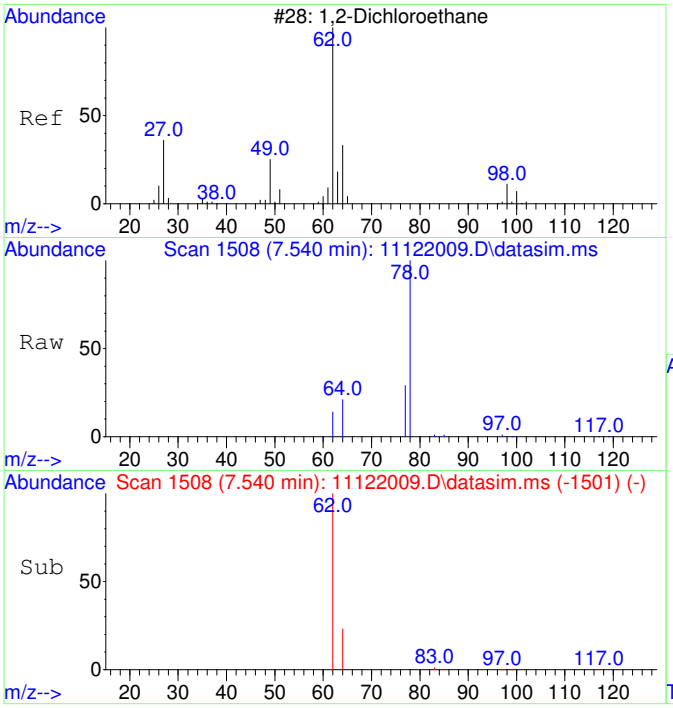


#9
Benzene
Concen: 133.09 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 78 Resp: 8968

Ion	Ratio	Lower	Upper
78	100		
77	36.6	0.0	53.2

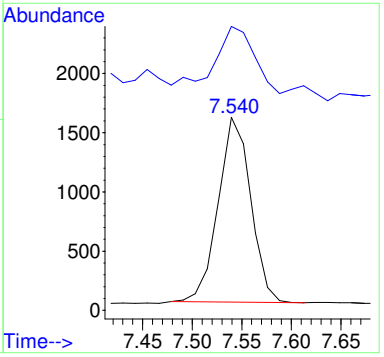


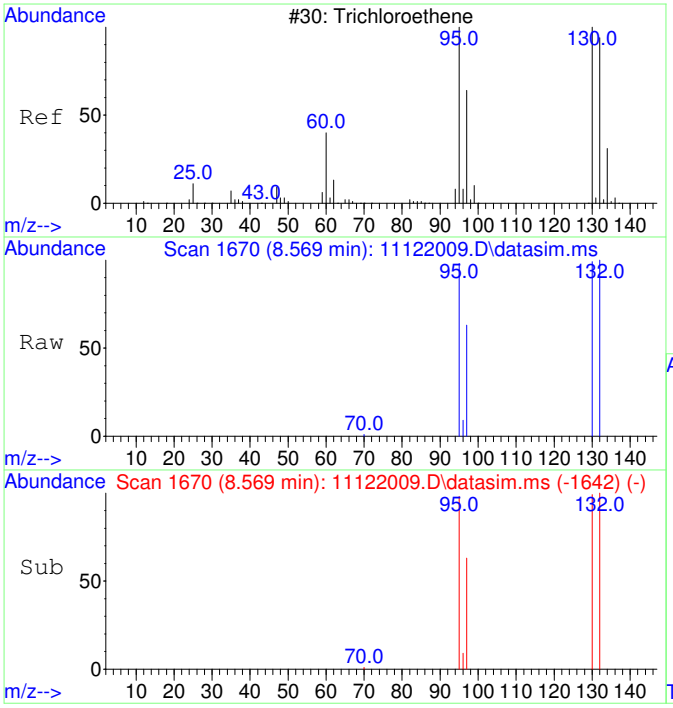


#10
1,2-Dichloroethane
Concen: 148.29 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 62 Resp: 3567

Ion	Ratio	Lower	Upper
62	100		
64	62.1	2.3	62.3

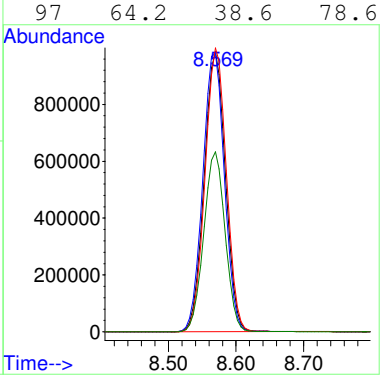


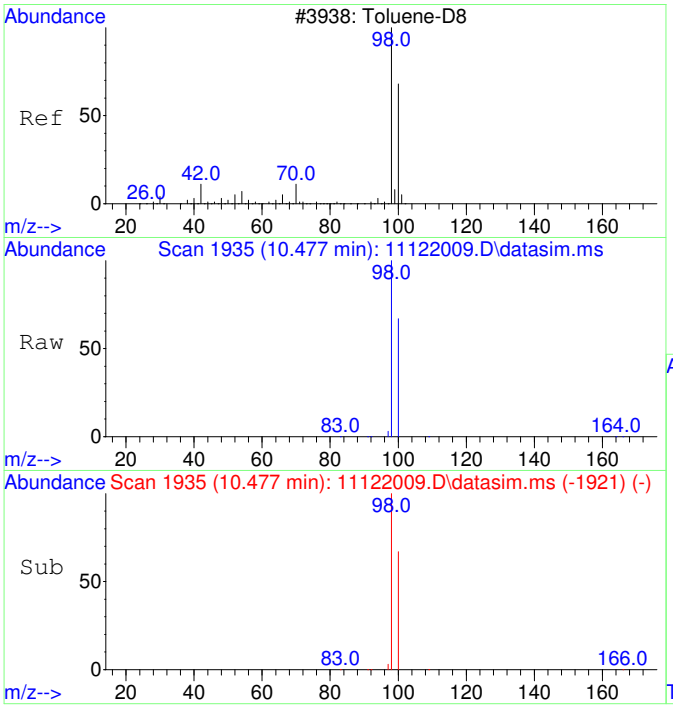


#11
Trichloroethene
Concen: 106304.70 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:130 Resp: 2156747

Ion	Ratio	Lower	Upper
130	100		
95	100.8	60.7	120.7
132	101.2	76.0	116.0
97	64.2	38.6	78.6

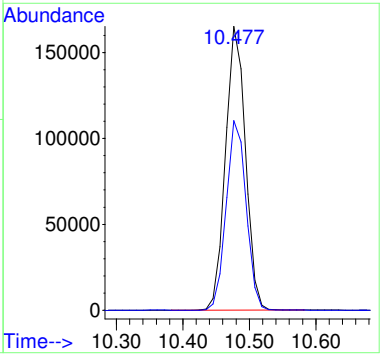


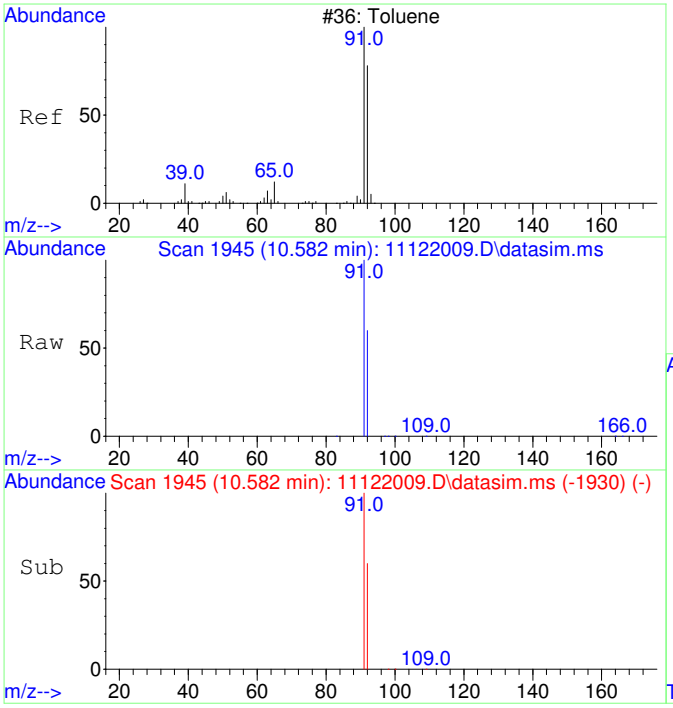


#12
Toluene-d8
Concen: 4419.04 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 98 Resp: 343084

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.1	97.1

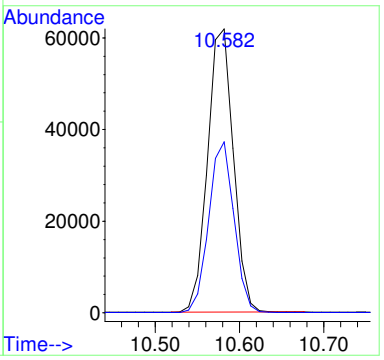


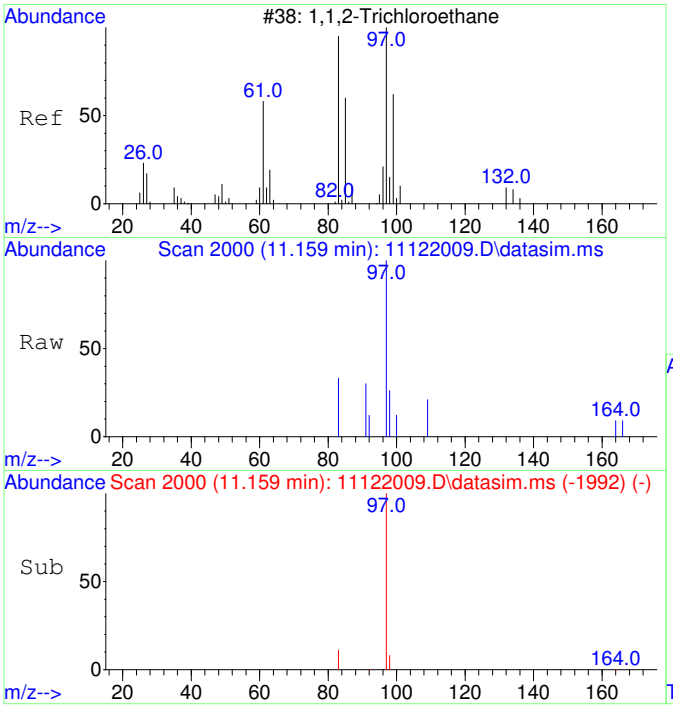


#13
Toluene
Concen: 1334.91 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 132131

Ion	Ratio	Lower	Upper
91	100		
92	58.8	29.9	89.9

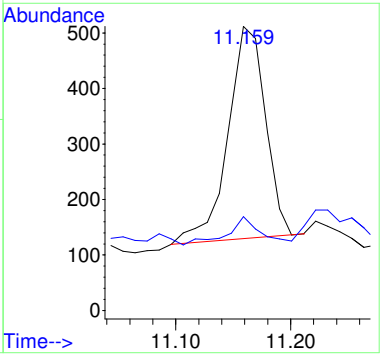


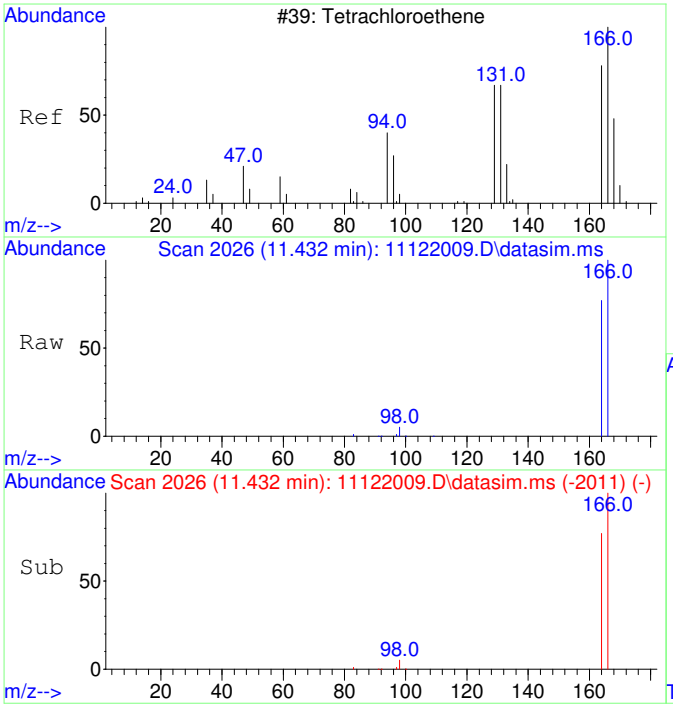


#14
1,1,2-Trichloroethane
Concen: 40.48 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 97 Resp: 873

Ion	Ratio	Lower	Upper
97	100		
83	12.0	51.2	111.2#

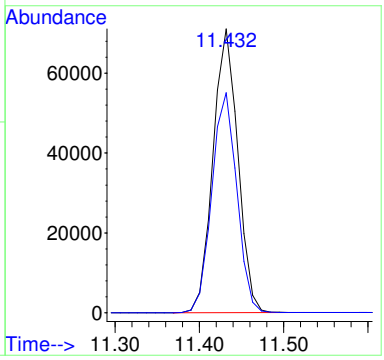


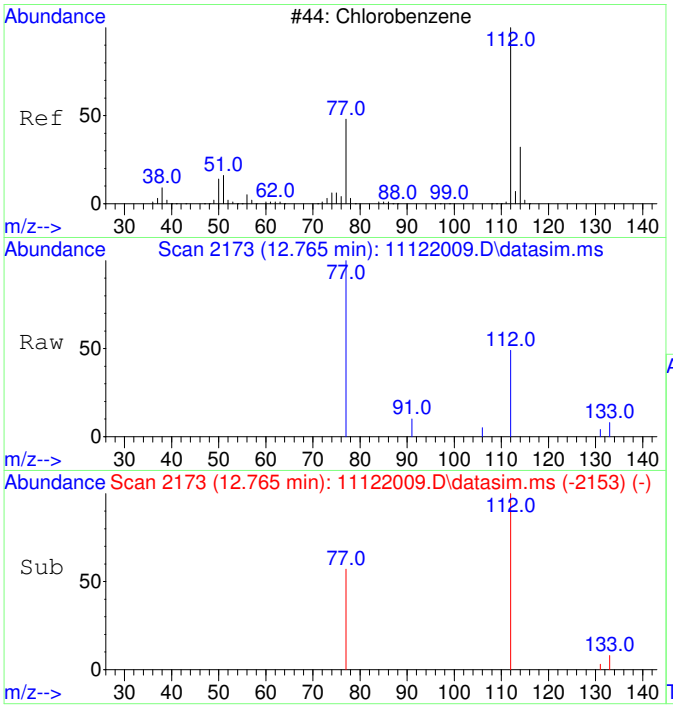


#15
Tetrachloroethene
Concen: 5075.21 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:166 Resp: 145379

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

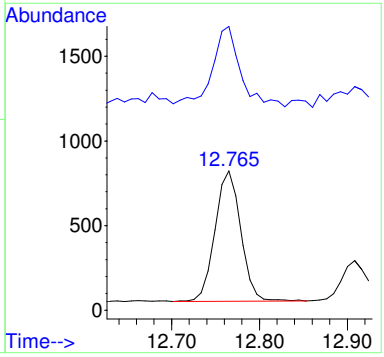


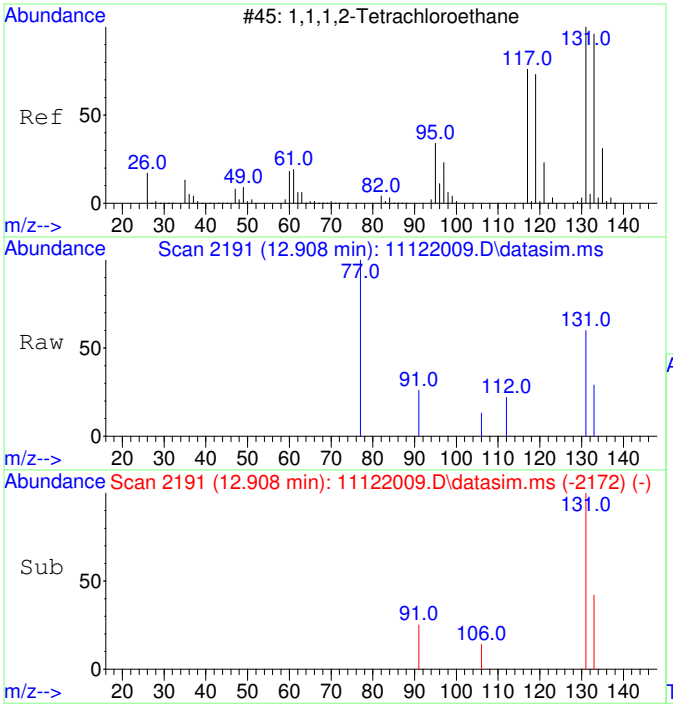


#16
Chlorobenzene
Concen: 22.07 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:112 Resp: 1564

Ion	Ratio	Lower	Upper
112	100		
77	68.5	23.6	83.6

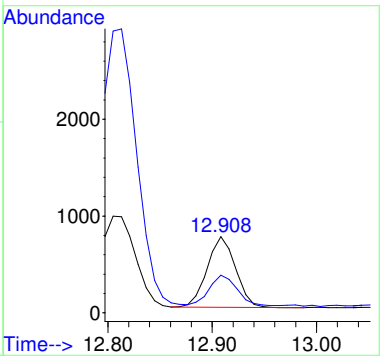


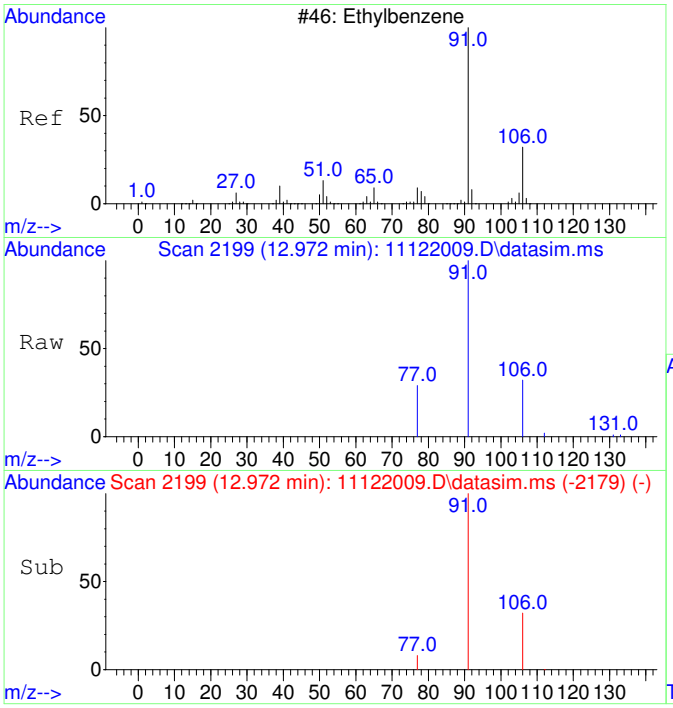


#17
1,1,1,2-Tetrachloroethane
Concen: 54.18 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:131 Resp: 1376

Ion	Ratio	Lower	Upper
131	100		
133	41.4	66.3	126.3#

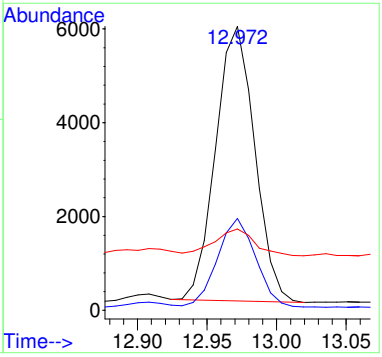


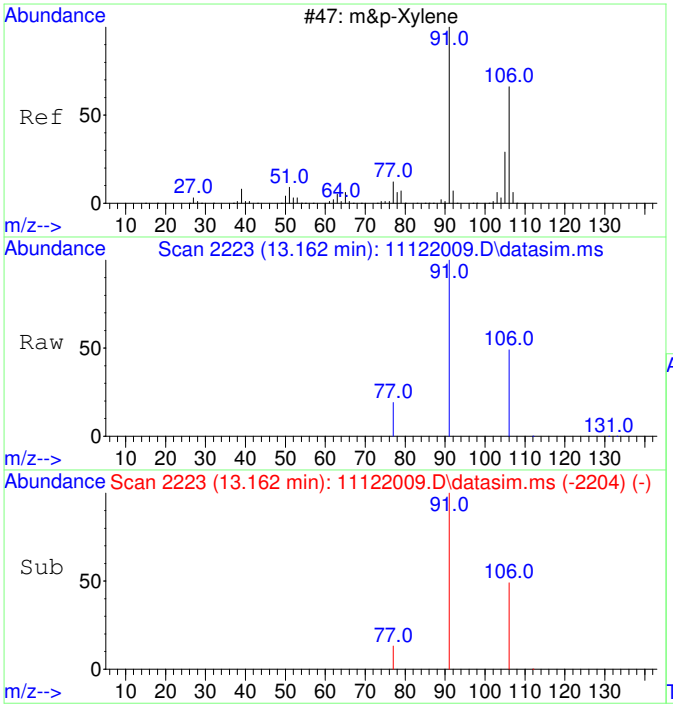


#18
Ethylbenzene
Concen: 94.75 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 11415

Ion	Ratio	Lower	Upper
91	100		
106	31.9	3.0	63.0
77	9.9	0.0	38.2

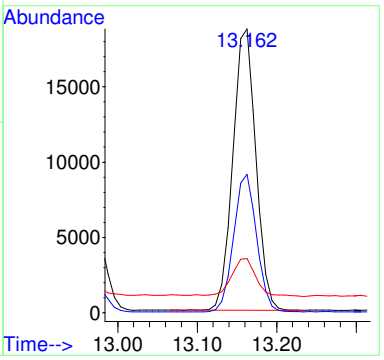


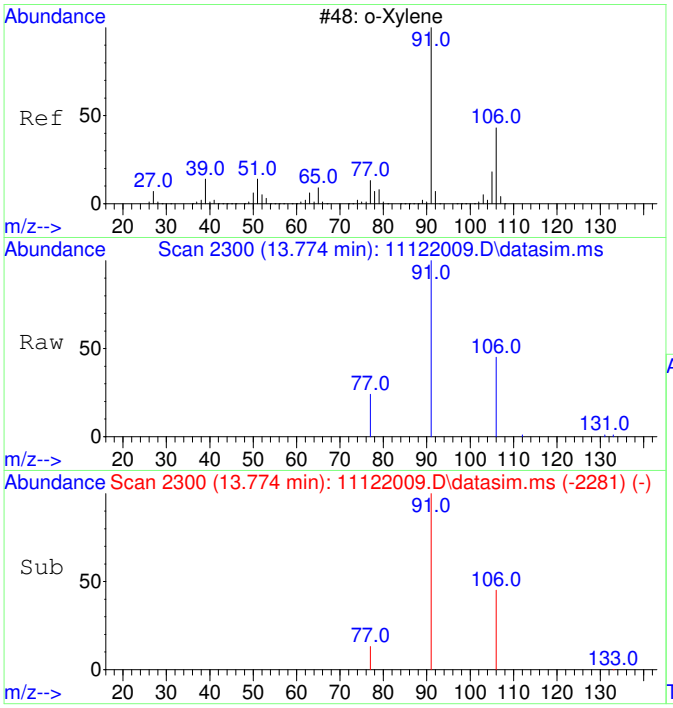


#19
m&p-Xylene
Concen: 401.79 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 37834

Ion	Ratio	Lower	Upper
91	100		
106	48.7	22.2	82.2
77	14.8	0.0	42.4

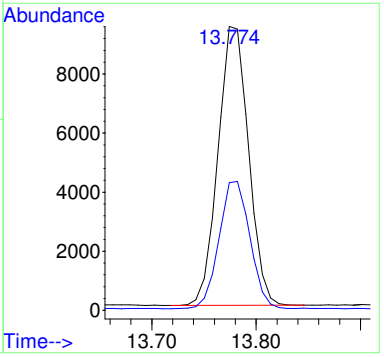


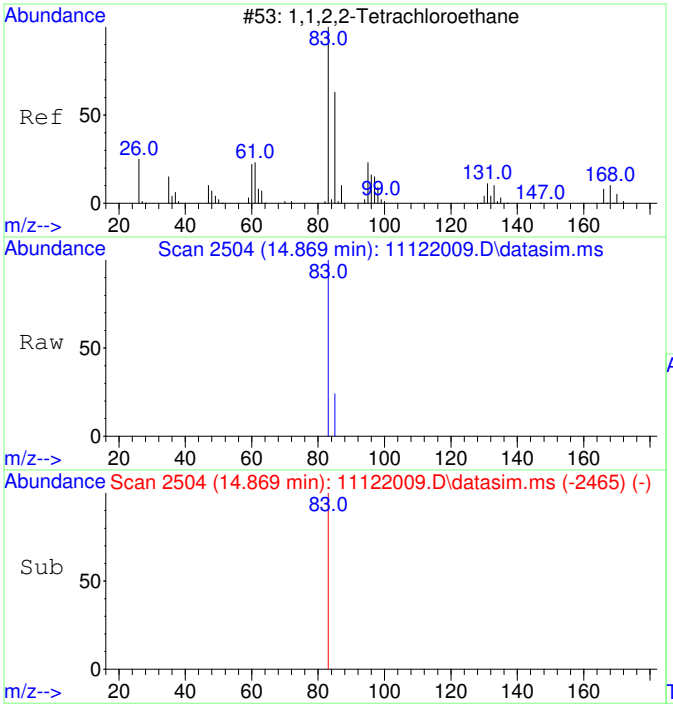


#20
o-Xylene
Concen: 190.55 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 19170

Ion	Ratio	Lower	Upper
91	100		
106	46.4	19.2	79.2

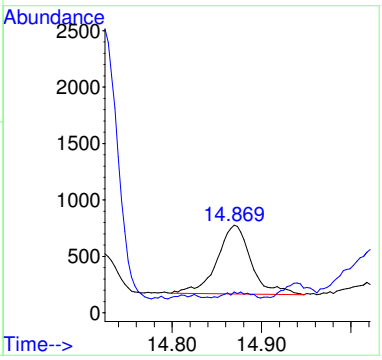


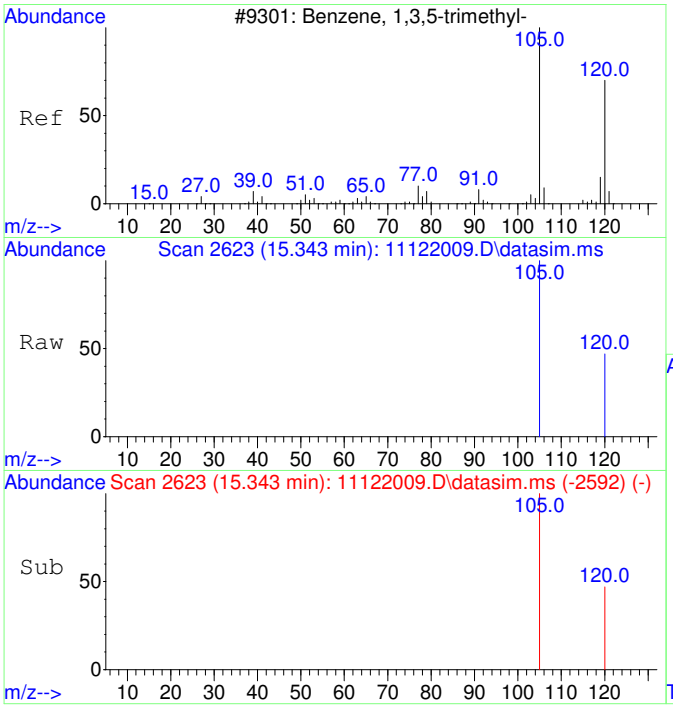


#21
1,1,2,2-Tetrachloroethane
Concen: 36.02 ug/L
RT: 14.869 min Scan# 2504
Delta R.T. -0.004 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 83 Resp: 1606

Ion	Ratio	Lower	Upper
83	100		
85	5.9	34.8	94.8#

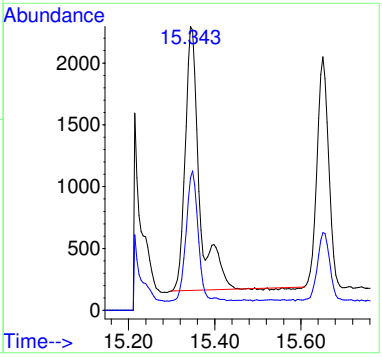


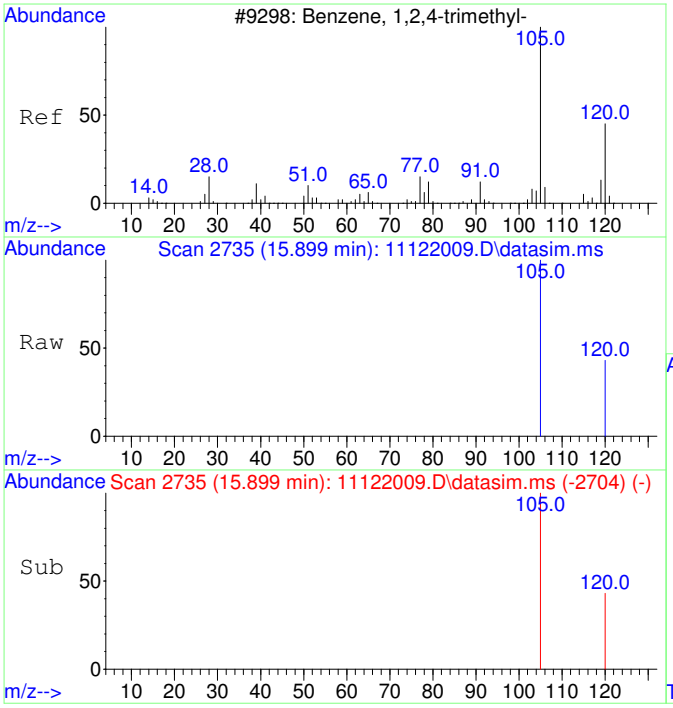


#22
1,3,5-Trimethylbenzene
Concen: 45.55 ug/L
RT: 15.343 min Scan# 2623
Delta R.T. -0.001 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:105 Resp: 4877

Ion	Ratio	Lower	Upper
105	100		
120	39.9	21.1	81.1

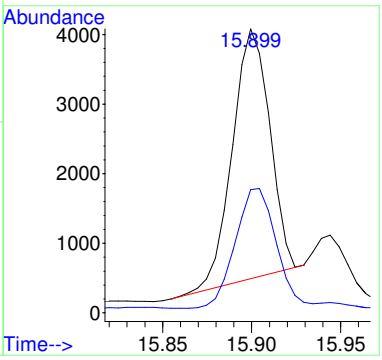


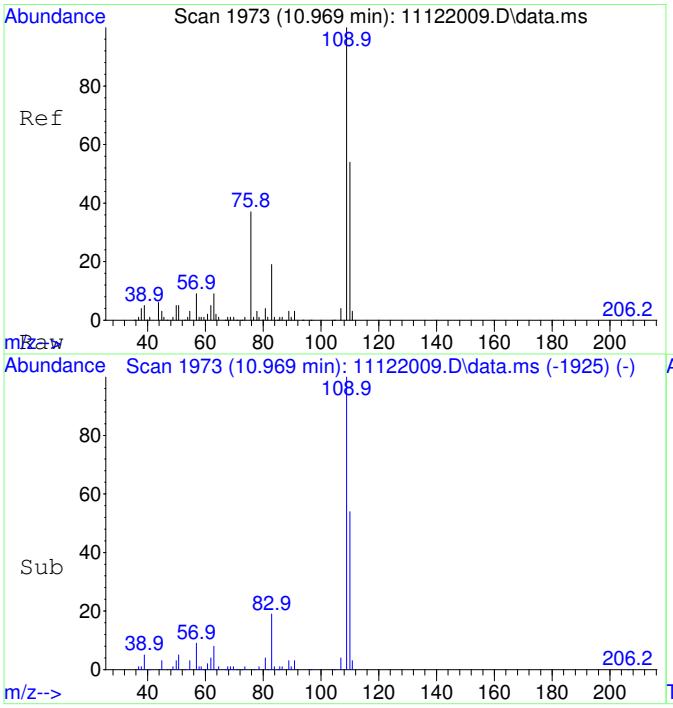


#23
1,2,4-Trimethylbenzene
Concen: 47.76 ug/L
RT: 15.899 min Scan# 2735
Delta R.T. 0.004 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:105 Resp: 5312

Ion	Ratio	Lower	Upper
105	100		
120	54.0	17.2	77.2

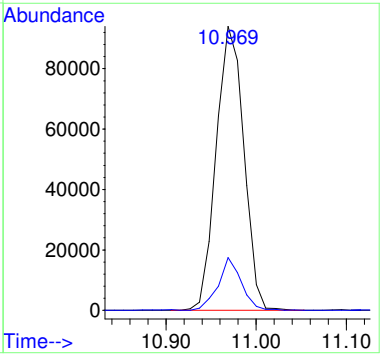


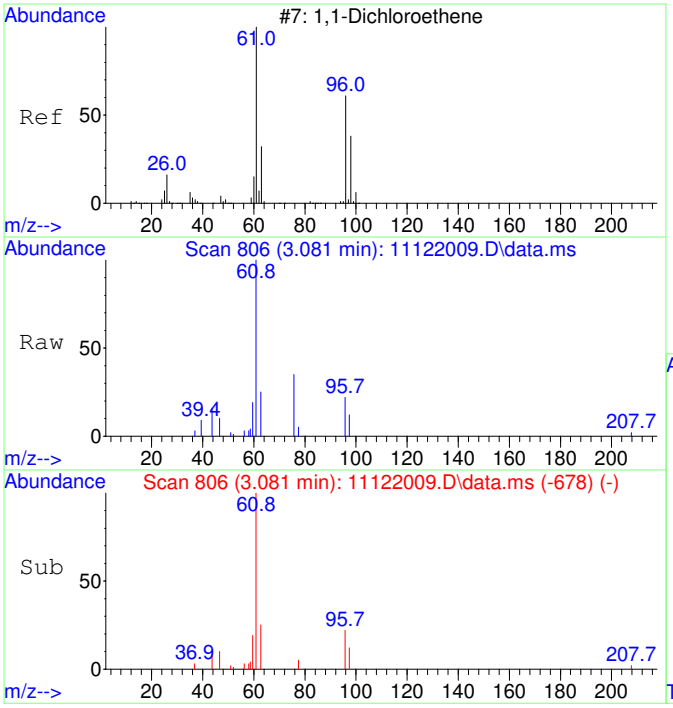


#25
2-Fluorotoluene SCAN
Concen: 5190.26 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:109 Resp: 200659

Ion	Ratio	Lower	Upper
109	100		
83	15.6	0.0	43.8

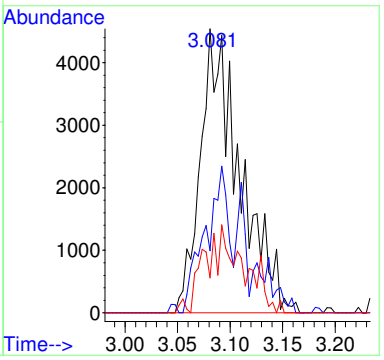


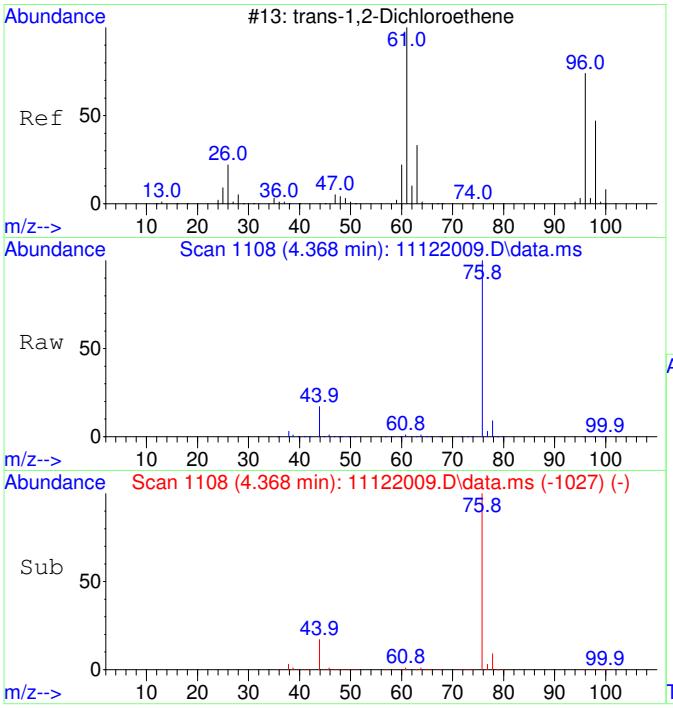


#26
1,1-Dichloroethene SCAN
Concen: 1437.08 ug/L
RT: 3.081 min Scan# 806
Delta R.T. -0.026 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 61 Resp: 11799

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.1	93.1#
98	4.7	11.2	71.2#

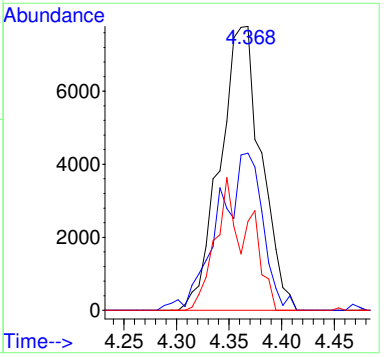


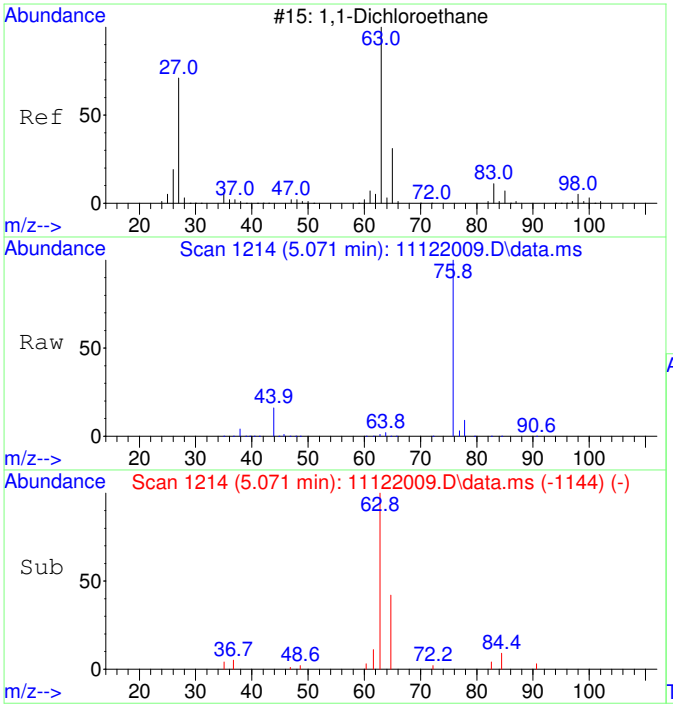


#27
trans-1,2-Dichloroethene SCAN
Concen: 2095.32 ug/L
RT: 4.368 min Scan# 1108
Delta R.T. -0.033 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 61 Resp: 21288

Ion	Ratio	Lower	Upper
61	100		
96	59.5	49.0	109.0
98	37.2	20.5	80.5

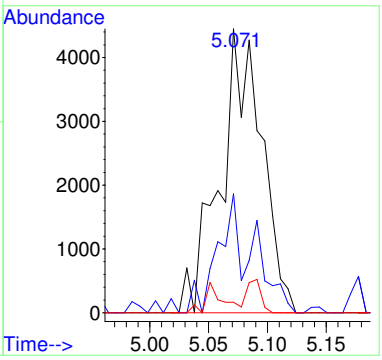


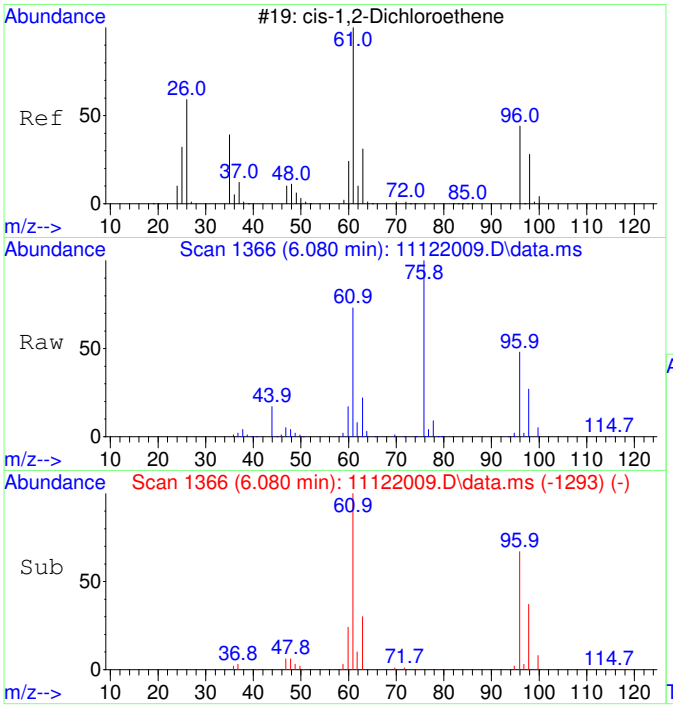


#28
1,1-Dichloroethane SCAN
Concen: 931.54 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. -0.033 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 63 Resp: 10953

Ion	Ratio	Lower	Upper
63	100		
65	34.6	1.3	61.3
83	3.3	0.0	45.9

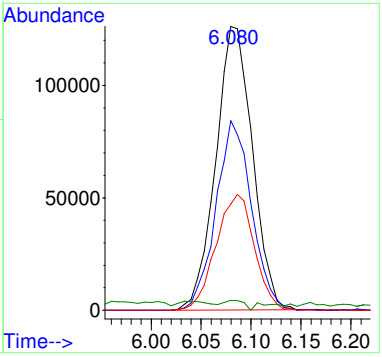


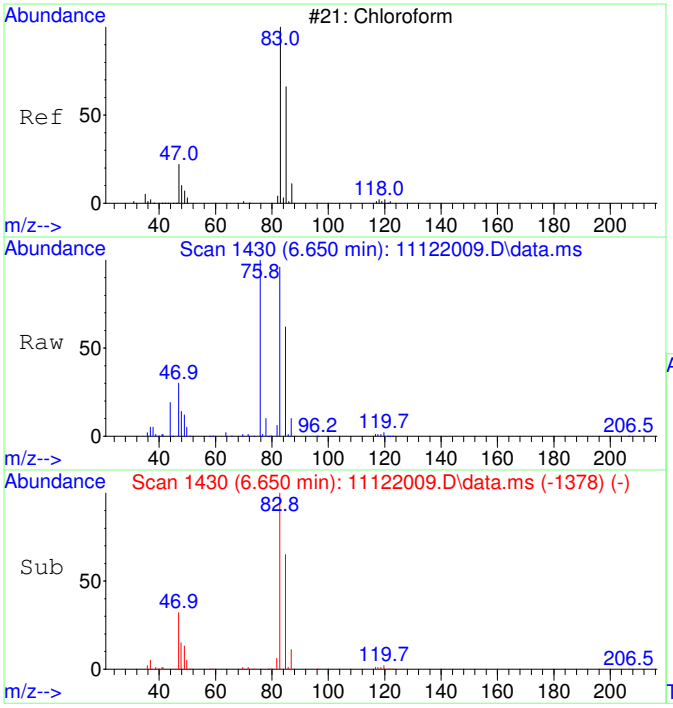


#29
cis-1,2-Dichloroethene SCAN
Concen: 25578.73 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. -0.013 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 61 Resp: 322230

Ion	Ratio	Lower	Upper
61	100		
96	65.3	39.9	99.9
98	42.7	13.5	73.5
64	1.1	4.5	64.5#

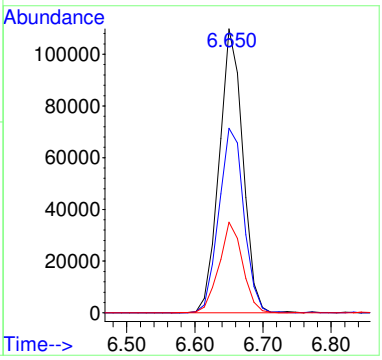


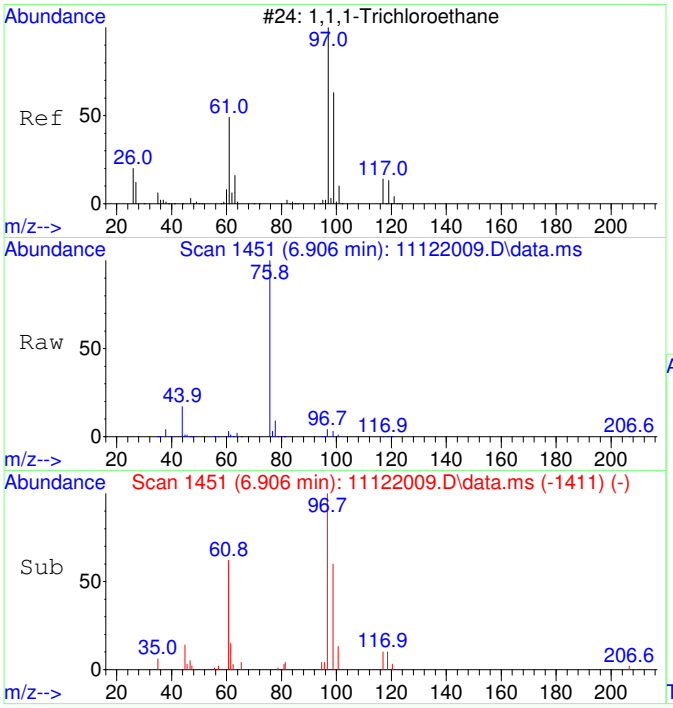


#30
Chloroform SCAN
Concen: 19329.28 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 83 Resp: 264112

Ion	Ratio	Lower	Upper
83	100		
85	68.7	34.6	94.6
47	32.0	0.0	53.4

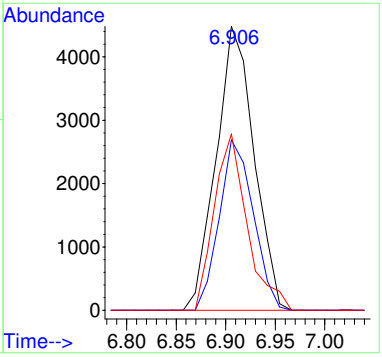


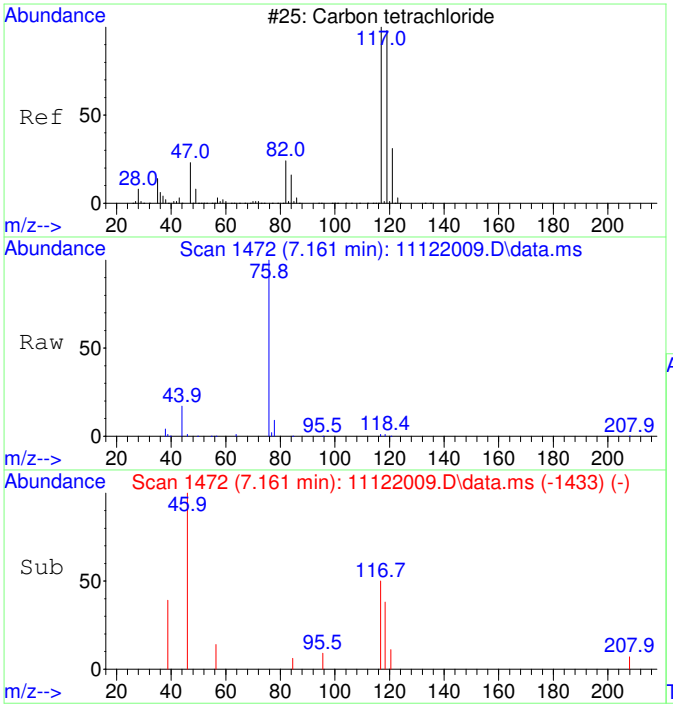


#31
1,1,1-Trichloroethane SCAN
Concen: 959.39 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 97 Resp: 11946

Ion	Ratio	Lower	Upper
97	100		
99	53.9	43.6	103.6
61	54.0	18.0	78.0

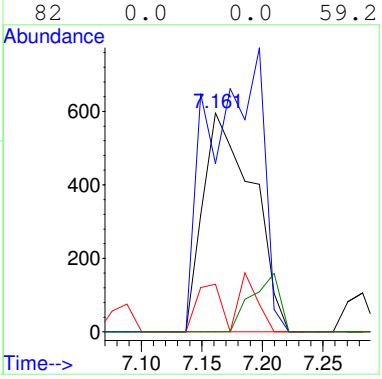


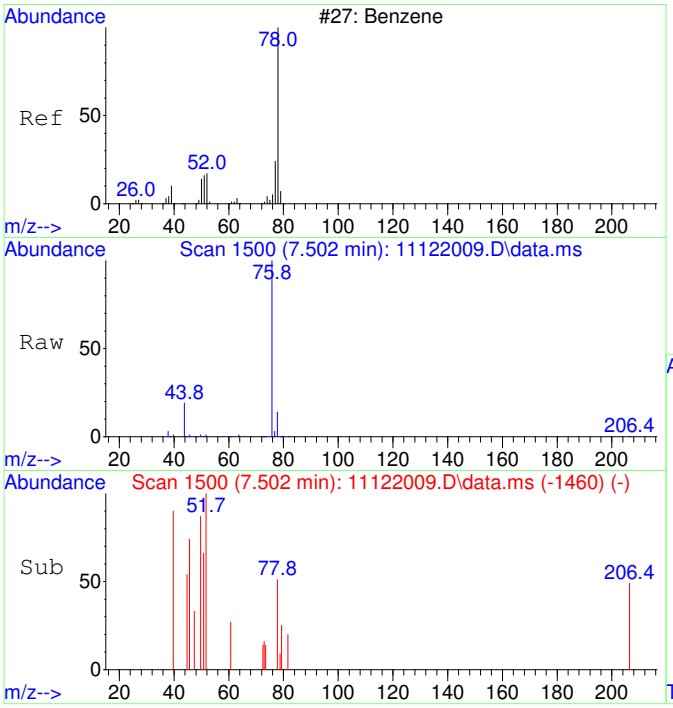


#32
Carbon tetrachloride SCAN
Concen: 131.19 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.024 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:117 Resp: 1704

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	10.7	0.0	58.8
82	0.0	0.0	59.2

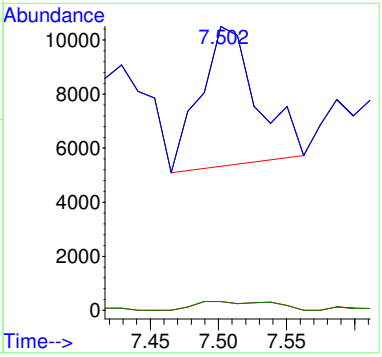


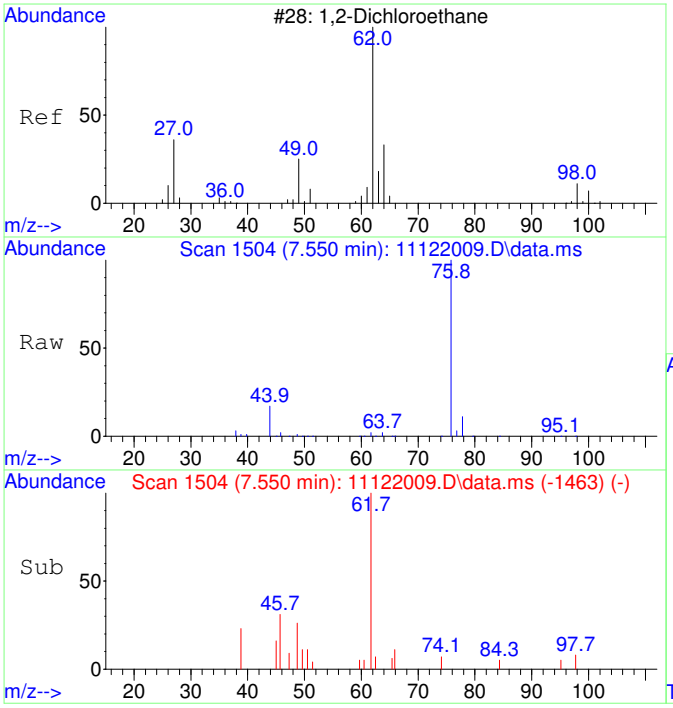


#33
Benzene SCAN
Concen: 437.41 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 78 Resp: 14996

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.7	0.0	47.9
51	8.7	0.0	44.1

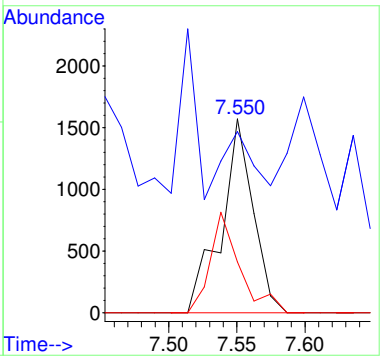


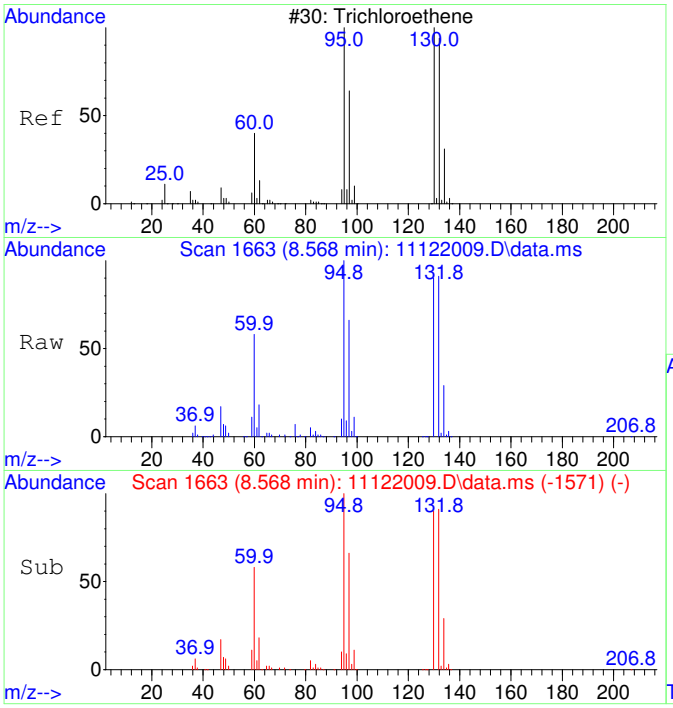


#34
1,2-Dichloroethane SCAN
Concen: 202.69 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 62 Resp: 2566

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	47.9	3.9	63.9

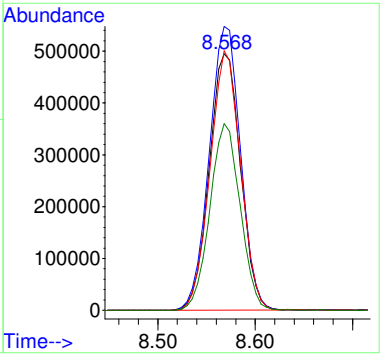


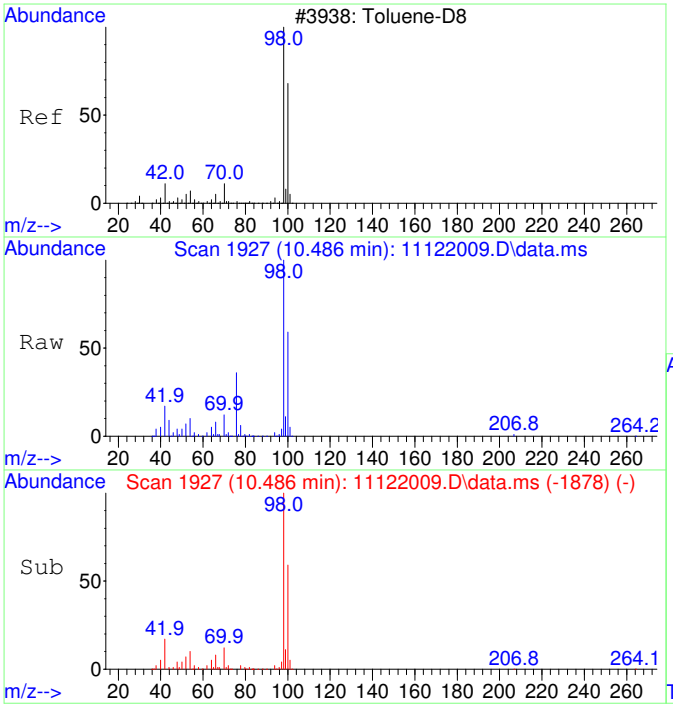


#35
Trichloroethene SCAN
Concen: 117678.64 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:130 Resp: 1108702

Ion	Ratio	Lower	Upper
130	100		
95	110.2	60.5	120.5
132	98.1	59.6	119.6
97	69.9	28.2	88.2

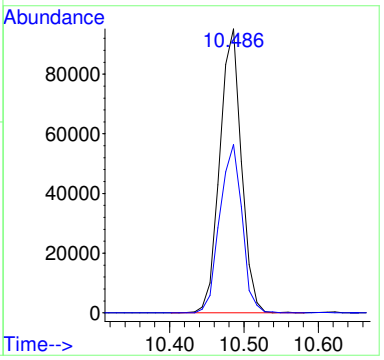


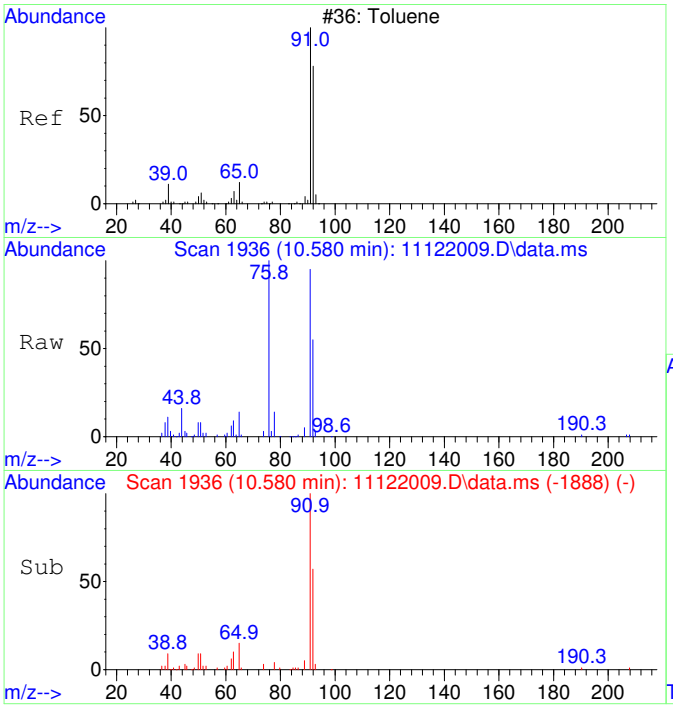


#36
Toluene-d8 SCAN
Concen: 5078.32 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 98 Resp: 192006

Ion	Ratio	Lower	Upper
98	100		
100	60.8	40.0	100.0

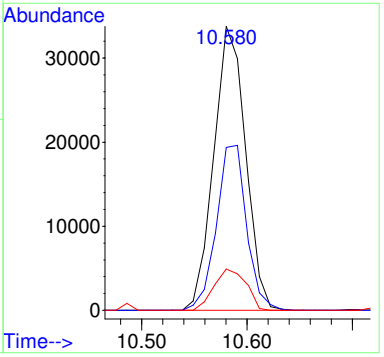


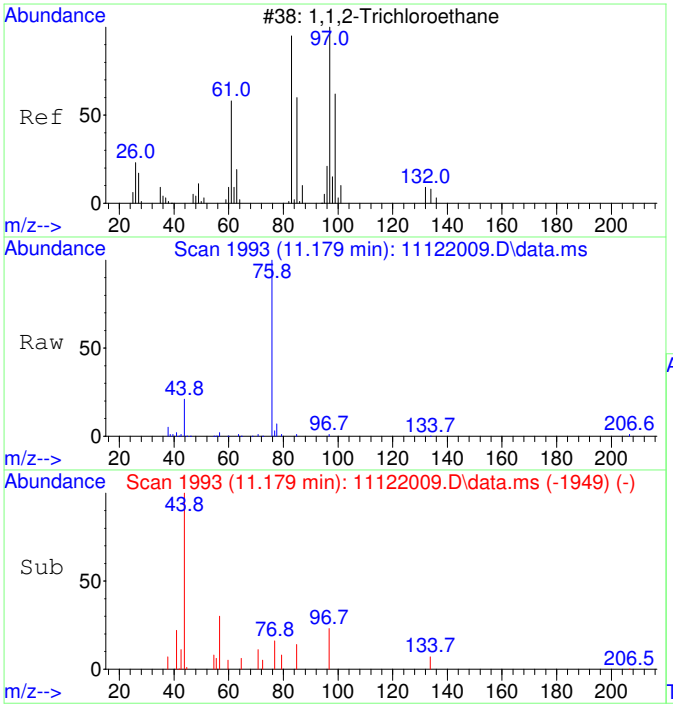


#37
Toluene SCAN
Concen: 1465.78 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 70973

Ion	Ratio	Lower	Upper
91	100		
92	55.2	28.3	88.3
65	14.7	0.0	41.0

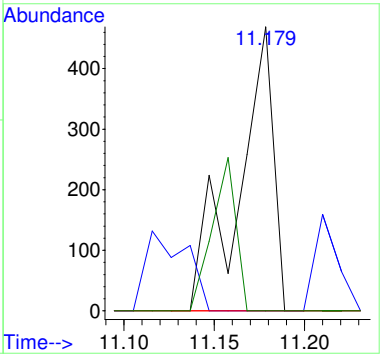


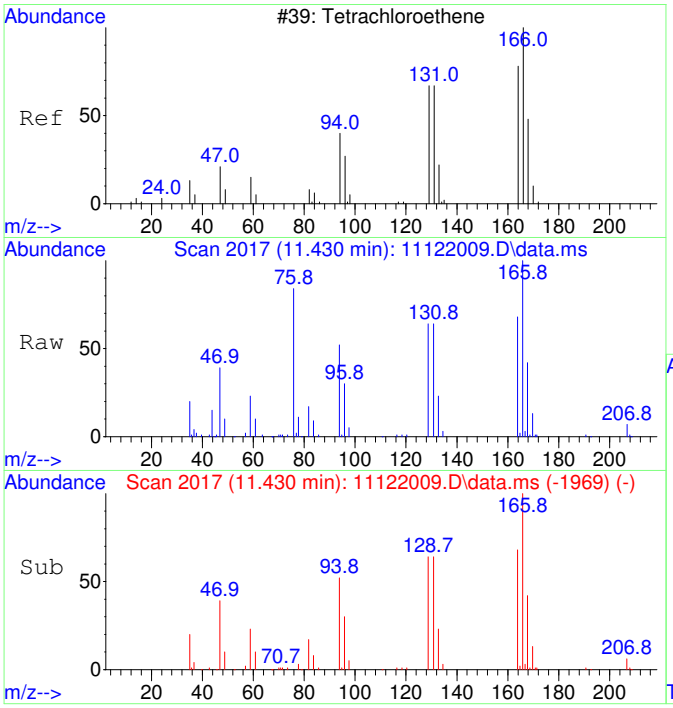


#38
1,1,2-Trichloroethane SCAN
Concen: 58.70 ug/L
RT: 11.179 min Scan# 1993
Delta R.T. -0.042 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 97 Resp: 638

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#

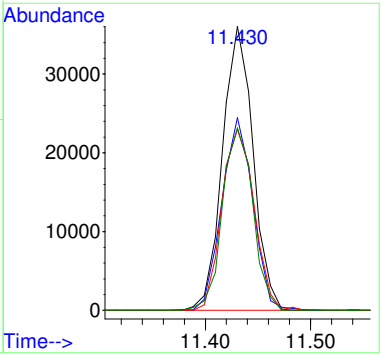


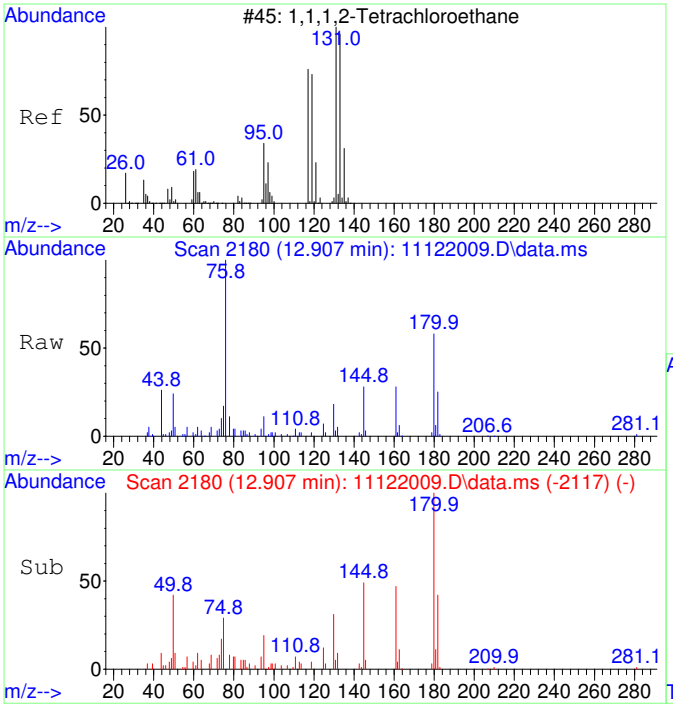


#39
Tetrachloroethene SCAN
Concen: 6259.30 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:166 Resp: 72813

Ion	Ratio	Lower	Upper
166	100		
164	69.0	50.9	110.9
131	67.7	38.7	98.7
129	64.1	41.8	101.8

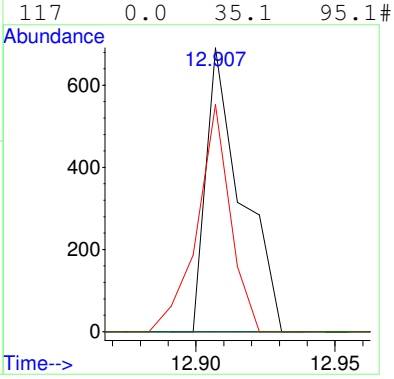


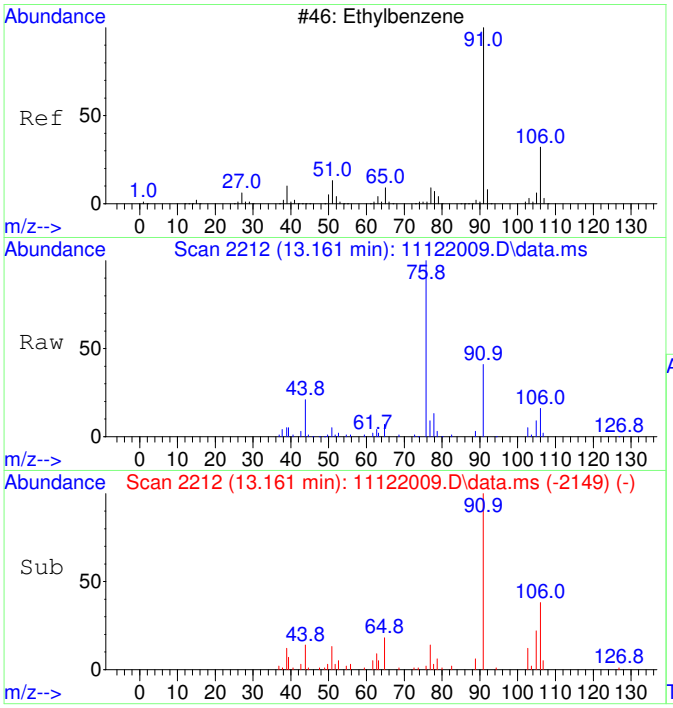


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 50.23 ug/L
RT: 12.907 min Scan# 2180
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:131 Resp: 615

Ion	Ratio	Lower	Upper
131	100		
133	0.0	66.9	126.9#
119	74.5	40.4	100.4
117	0.0	35.1	95.1#

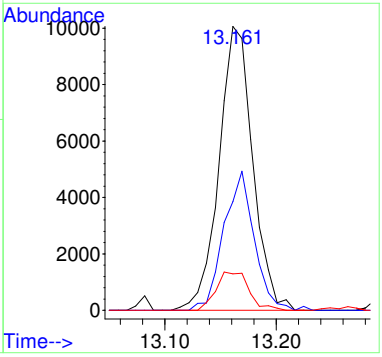


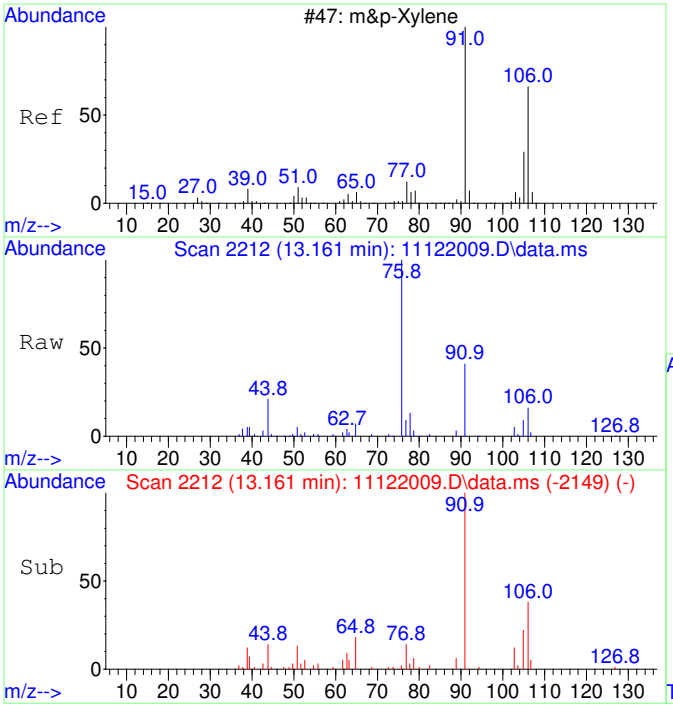


#42
Ethylbenzene SCAN
Concen: 240.60 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 21224

Ion	Ratio	Lower	Upper
91	100		
106	44.4	23.1	83.1
51	13.2	0.0	40.1

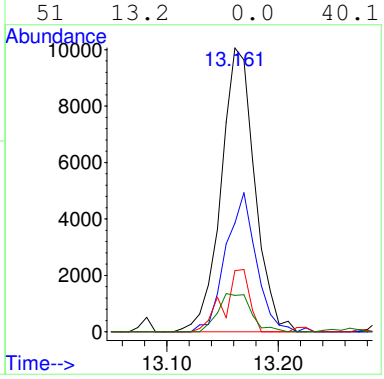


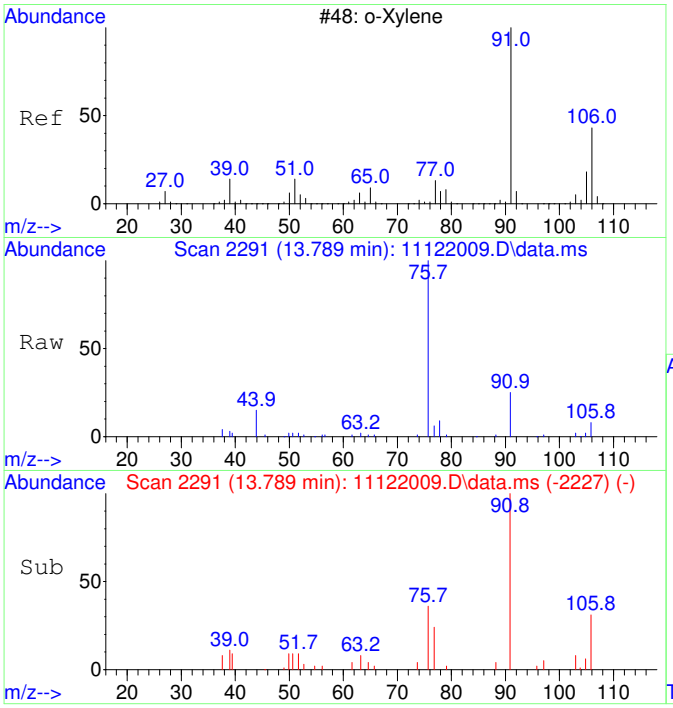


#43
m&p-Xylene SCAN
Concen: 240.60 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 21224

Ion	Ratio	Lower	Upper
91	100		
106	44.4	23.1	83.1
105	16.6	0.0	54.7
51	13.2	0.0	40.1

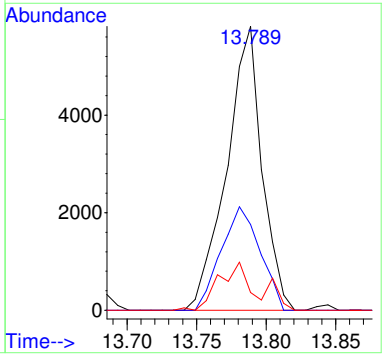


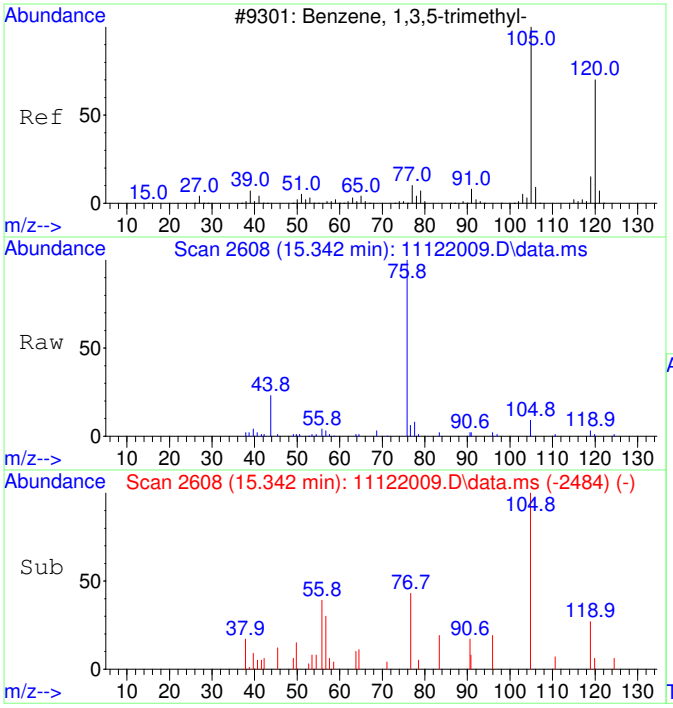


#44
o-Xylene SCAN
Concen: 217.46 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. 0.008 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 10268

Ion	Ratio	Lower	Upper
91	100		
106	40.2	18.0	78.0
105	18.3	0.0	56.6

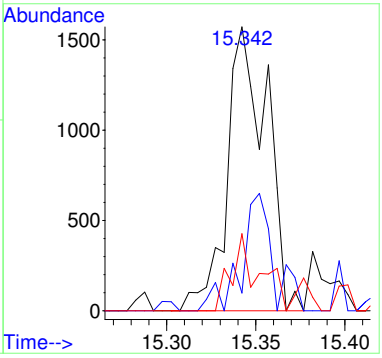


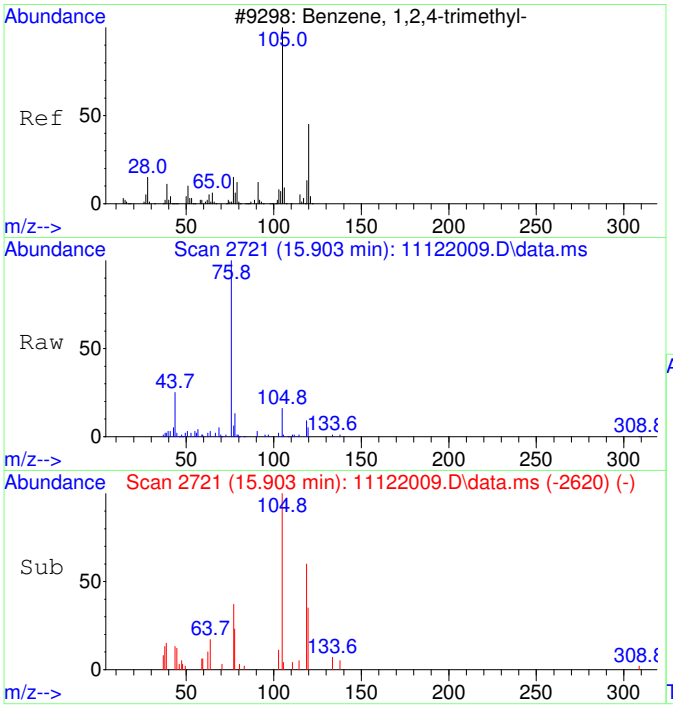


#46
1,3,5-Trimethylbenzene SCAN
Concen: 49.13 ug/L
RT: 15.342 min Scan# 2608
Delta R.T. -0.001 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:105 Resp: 2445

Ion	Ratio	Lower	Upper
105	100		
120	33.1	18.3	78.3
119	19.2	0.0	43.1

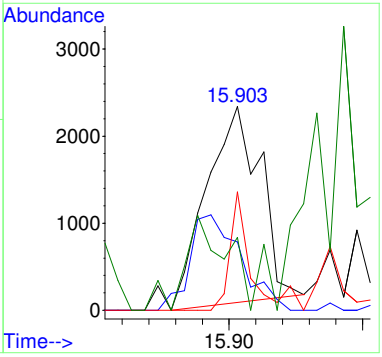




#47
1,2,4-Trimethylbenzene SCAN
Concen: 62.26 ug/L
RT: 15.903 min Scan# 2721
Delta R.T. 0.004 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:105 Resp: 3170

Ion	Ratio	Lower	Upper
105	100		
120	46.1	16.9	76.9
119	18.5	0.0	41.9
77	38.0	0.0	42.3



Quantitation Report (QT Reviewed)

Table of Contents

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Data File : 11122009.D
Acq On : 12 Nov 2020 11:37
InstName : AG5975C
Operator : TD
Sample : 2011015-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

M.I. Performed By:
TD at 1:49 pm, Nov 12, 2020

M.I. Approved By:
ZR at 2:16 pm, Nov 23, 2020

Quant Time: Nov 12 11:56:44 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

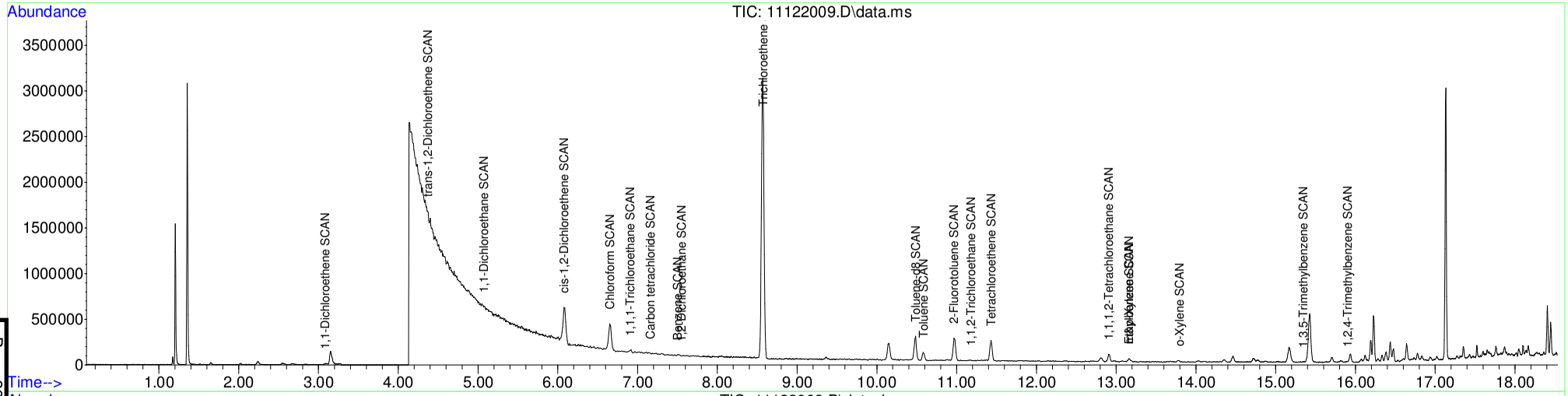
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	396595	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	343084	4419.04 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.38%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	16567m	1046.12 ug/L	
3] trans-1,2-Dichloroethene	4.362	61	31633	1728.84 ug/L	99
4] 1,1-Dichloroethane	5.079	63	15841	695.50 ug/L	99
5] cis-1,2-Dichloroethene	6.081	61	552860	22995.41 ug/L	99
6] Chloroform	6.652	83	476351	19357.49 ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	18877	706.35 ug/L	99
8] Carbon tetrachloride	7.175	117	2998	119.19 ug/L	100
9] Benzene	7.503	78	8968	133.09 ug/L	72
10] 1,2-Dichloroethane	7.540	62	3567	148.29 ug/L	47
11] Trichloroethene	8.569	130	2156747	106304.70 ug/L OC	92
13] Toluene	10.582	91	132131	1334.91 ug/L	99
14] 1,1,2-Trichloroethane	11.159	97	873	40.48 ug/L #	22
15] Tetrachloroethene	11.432	166	145379	5075.21 ug/L	100
16] Chlorobenzene	12.765	112	1564	22.07 ug/L	79
17] 1,1,1,2-Tetrachloroethane	12.908	131	1376	54.18 ug/L #	44
18] Ethylbenzene	12.972	91	11415	94.75 ug/L	97
19] m&p-Xylene	13.162	91	37834	401.79 ug/L	95
20] o-Xylene	13.774	91	19170	190.55 ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.869	83	1606	36.02 ug/L #	25
22] 1,3,5-Trimethylbenzene	15.343	105	4877	45.55 ug/L	84
23] 1,2,4-Trimethylbenzene	15.899	105	5312	47.76 ug/L	90
25) 2-Fluorotoluene SCAN	10.969	109	200659	5190.26 ug/L	96
26) 1,1-Dichloroethene SCAN	3.081	61	11799	1437.08 ug/L #	28
27) trans-1,2-Dichloroethe...	4.368	61	21288	2095.32 ug/L	79
28) 1,1-Dichloroethane SCAN	5.071	63	10953	931.54 ug/L	86
29) cis-1,2-Dichloroethene...	6.080	61	322230	25578.73 ug/L #	83
30) Chloroform SCAN	6.650	83	264112	19329.28 ug/L	92
31) 1,1,1-Trichloroethane ...	6.906	97	11946	959.39 ug/L	82
32) Carbon tetrachloride SCAN	7.161	117	1704	131.19 ug/L #	18
33) Benzene SCAN	7.502	78	14996	437.41 ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	2566	202.69 ug/L #	57
35) Trichloroethene SCAN	8.568	130	1108702	117678.64 ug/L	85
36) Toluene-d8 SCAN	10.486	98	192006	5078.32 ug/L	89
37) Toluene SCAN	10.580	91	70973	1465.78 ug/L	95
38) 1,1,2-Trichloroethane ...	11.179	97	638	58.70 ug/L #	13
39) Tetrachloroethene SCAN	11.430	166	72813	6259.30 ug/L	92
41) 1,1,1,2-Tetrachloroeth...	12.907	131	615	50.23 ug/L #	34
42) Ethylbenzene SCAN	13.161	91	21224	240.60 ug/L	88
43) m&p-Xylene SCAN	13.161	91	21224	240.60 ug/L	87
44) o-Xylene SCAN	13.789	91	10268	217.46 ug/L	87
46) 1,3,5-Trimethylbenzene...	15.342	105	2445	49.13 ug/L	79
47) 1,2,4-Trimethylbenzene...	15.903	105	3170	62.26 ug/L	85

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122009.D
Acq On : 12 Nov 2020 11:37
InstName : AG5975C
Operator : TD
Sample : 2011015-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 12 11:56:44 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



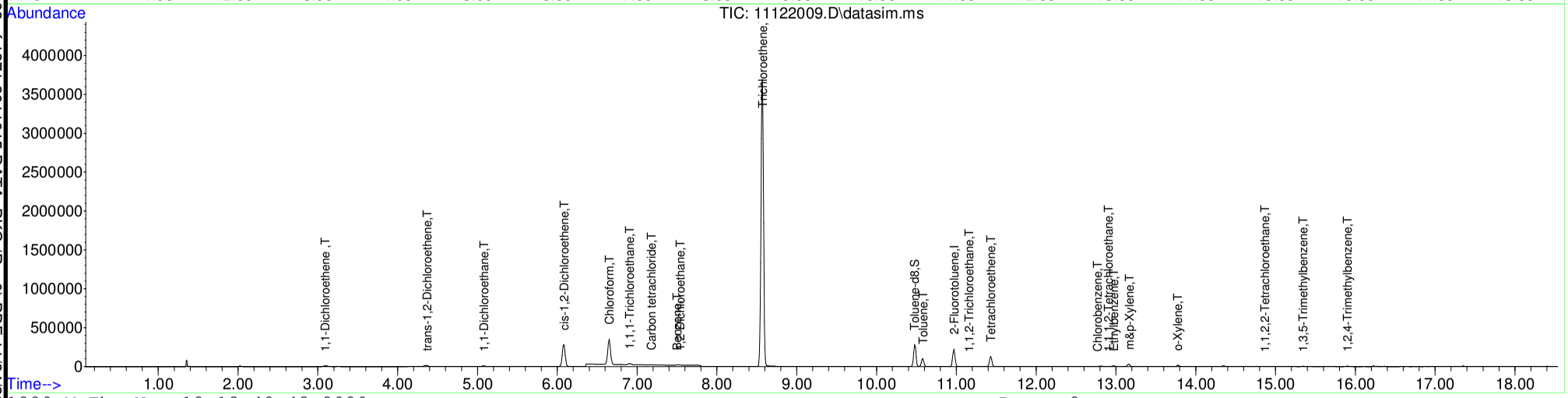
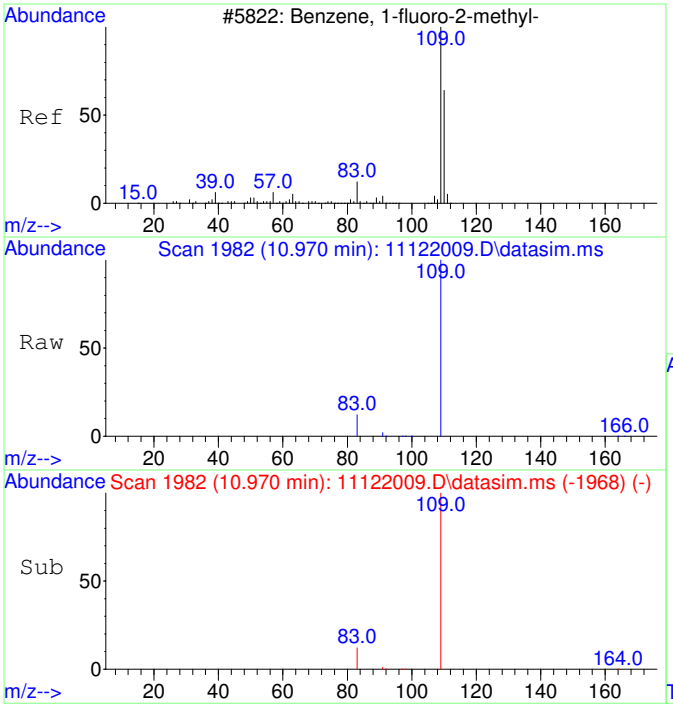


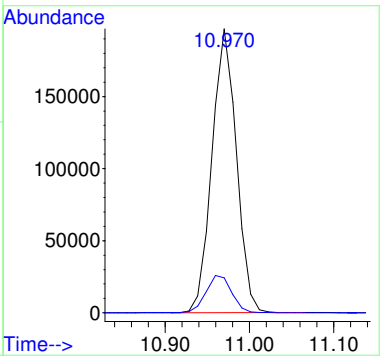
Table of Contents

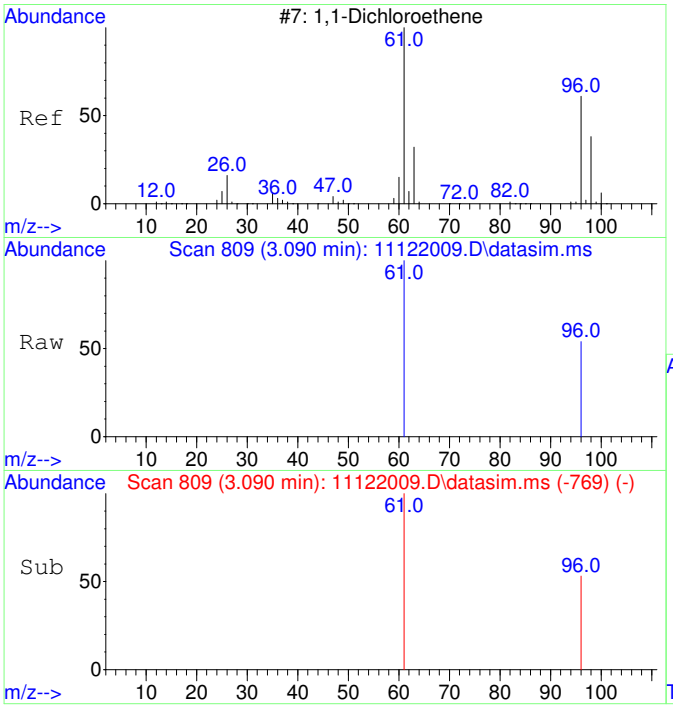


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:109 Resp: 396595

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	42.3

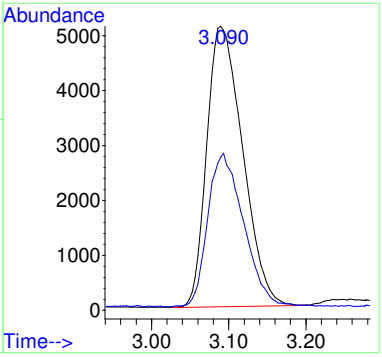


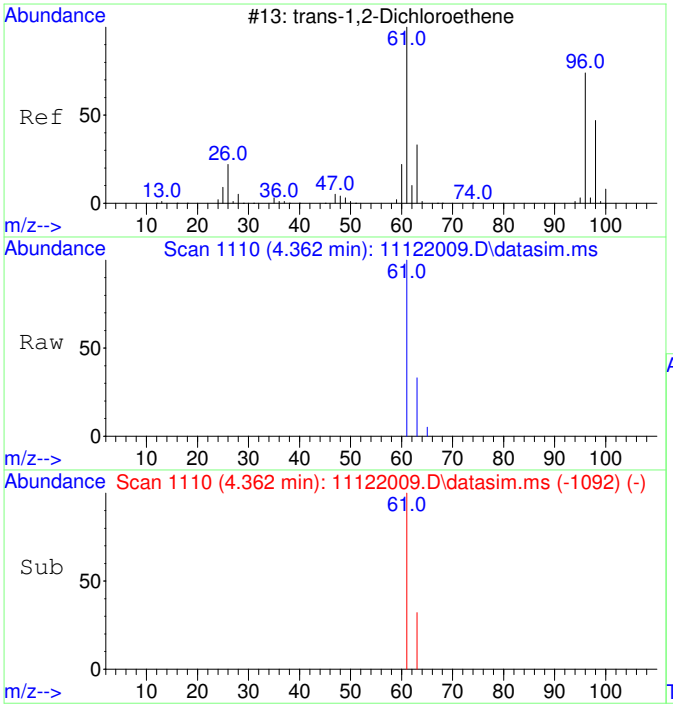


#2
1,1-Dichloroethene
Concen: 1046.12 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 61 Resp: 16567

Ion	Ratio	Lower	Upper
61	100		
96	53.9	37.2	97.2

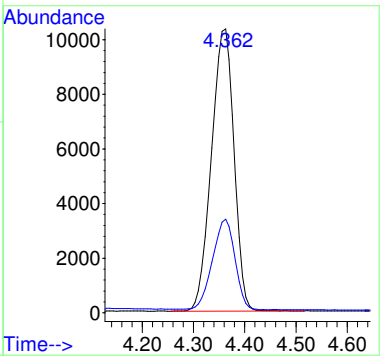


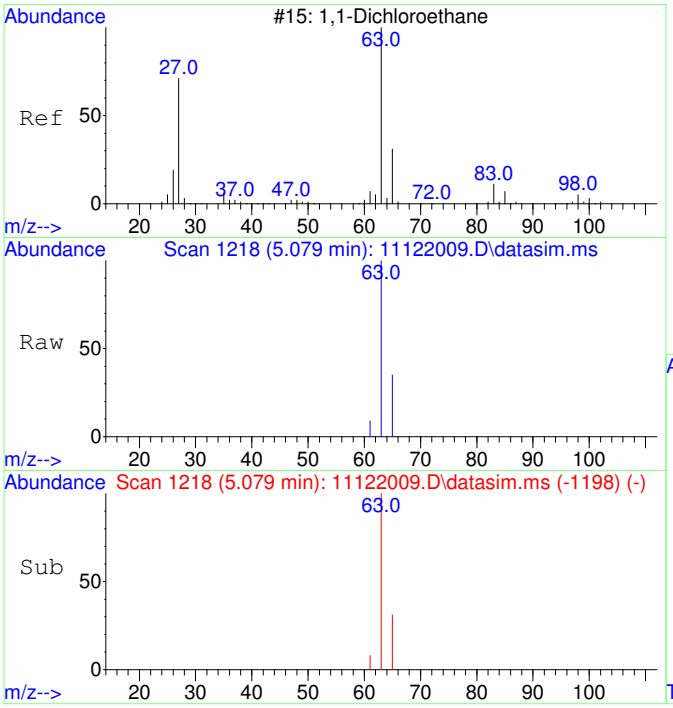


#3
trans-1,2-Dichloroethene
Concen: 1728.84 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. -0.033 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 61 Resp: 31633

Ion	Ratio	Lower	Upper
61	100		
63	31.6	2.4	62.4

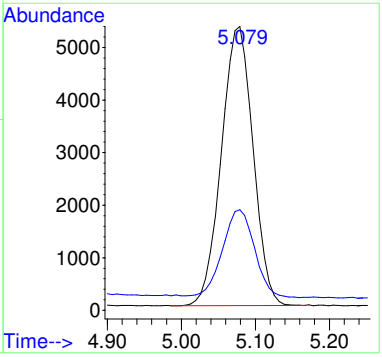


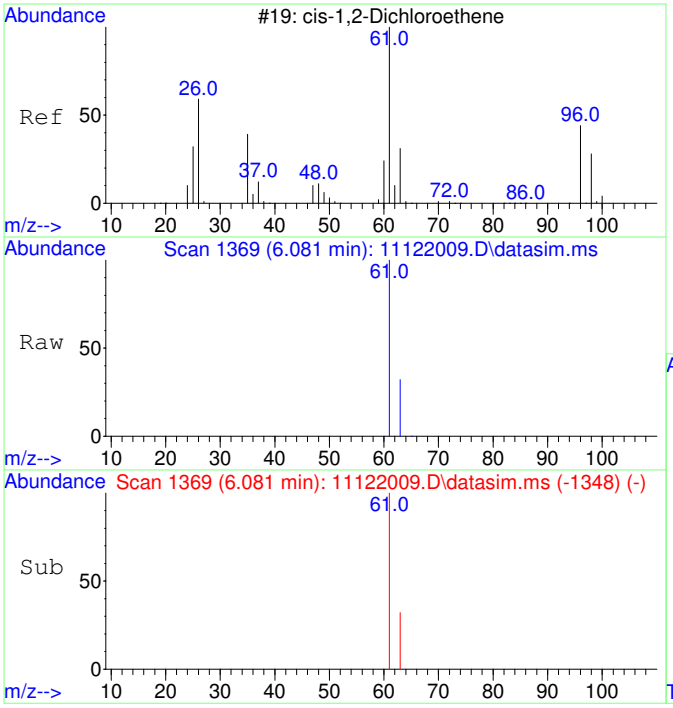


#4
1,1-Dichloroethane
Concen: 695.50 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 63 Resp: 15841

Ion	Ratio	Lower	Upper
63	100		
65	32.2	1.8	61.8

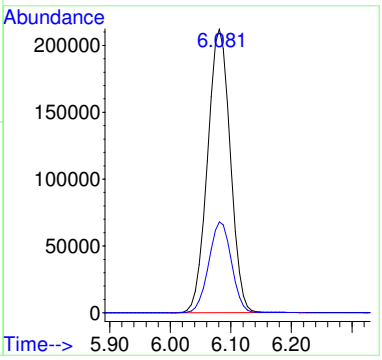


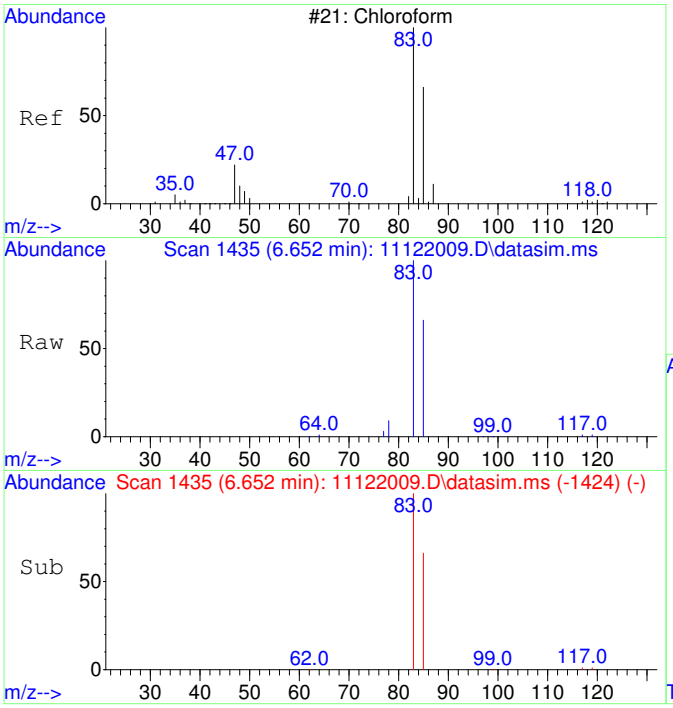


#5
cis-1,2-Dichloroethene
Concen: 22995.41 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 61 Resp: 552860

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

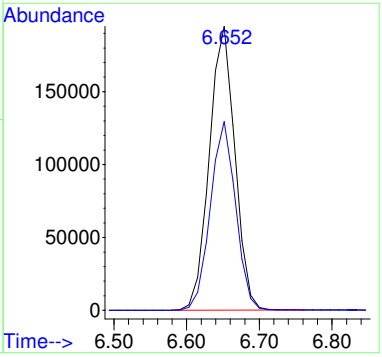


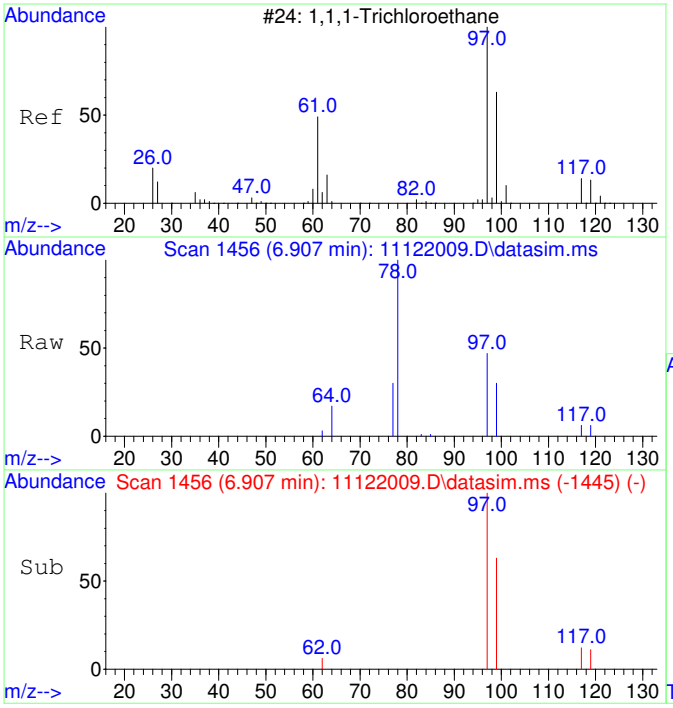


#6
Chloroform
Concen: 19357.49 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 83 Resp: 476351

Ion	Ratio	Lower	Upper
83	100		
85	65.5	35.1	95.1

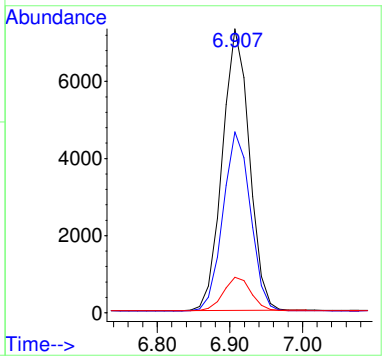


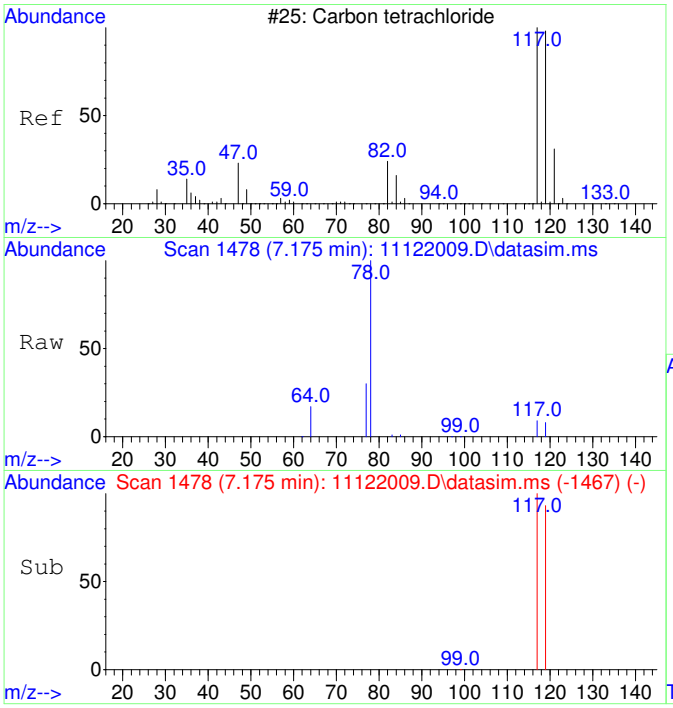


#7
1,1,1-Trichloroethane
Concen: 706.35 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 97 Resp: 18877

Ion	Ratio	Lower	Upper
97	100		
99	64.4	34.6	94.6
117	12.1	0.0	43.2

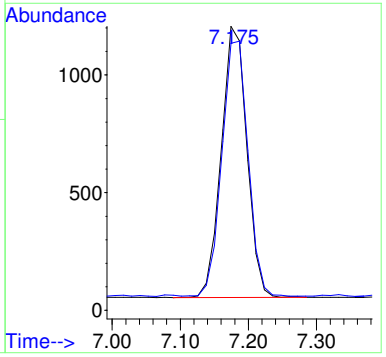


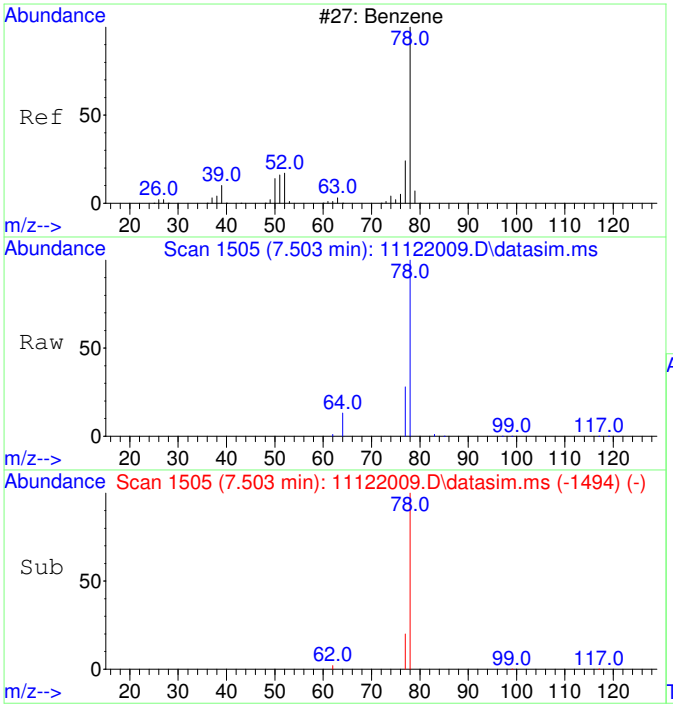


#8
Carbon tetrachloride
Concen: 119.19 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:117 Resp: 2998

Ion	Ratio	Lower	Upper
117	100		
119	96.2	66.4	126.4

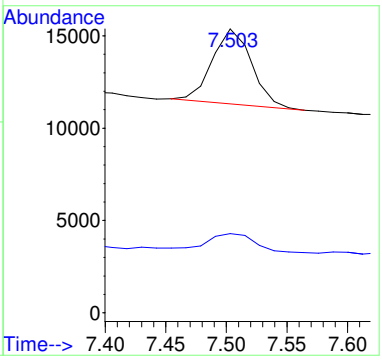


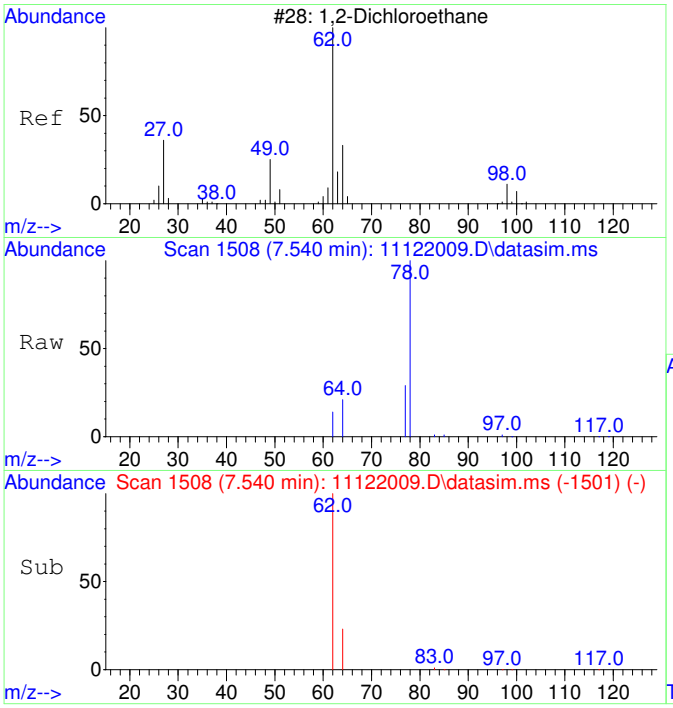


#9
Benzene
Concen: 133.09 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 78 Resp: 8968

Ion	Ratio	Lower	Upper
78	100		
77	36.6	0.0	53.2

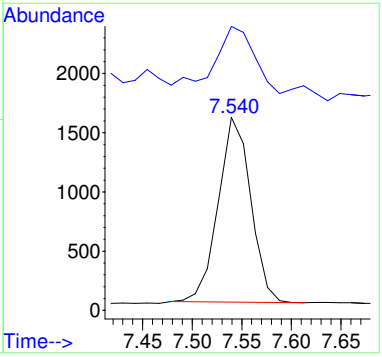


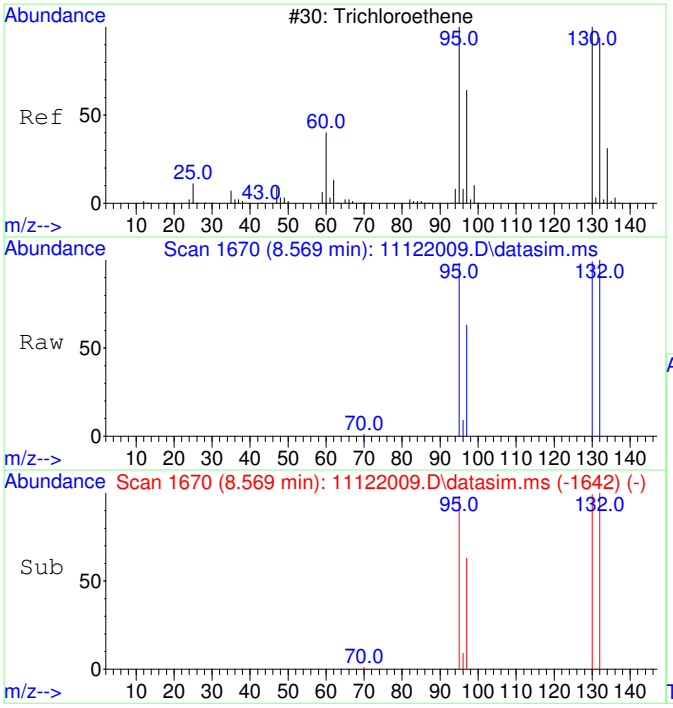


#10
1,2-Dichloroethane
Concen: 148.29 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 62 Resp: 3567

Ion	Ratio	Lower	Upper
62	100		
64	62.1	2.3	62.3

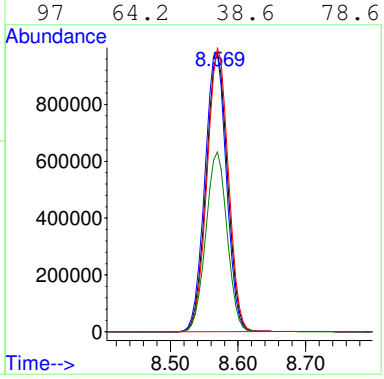


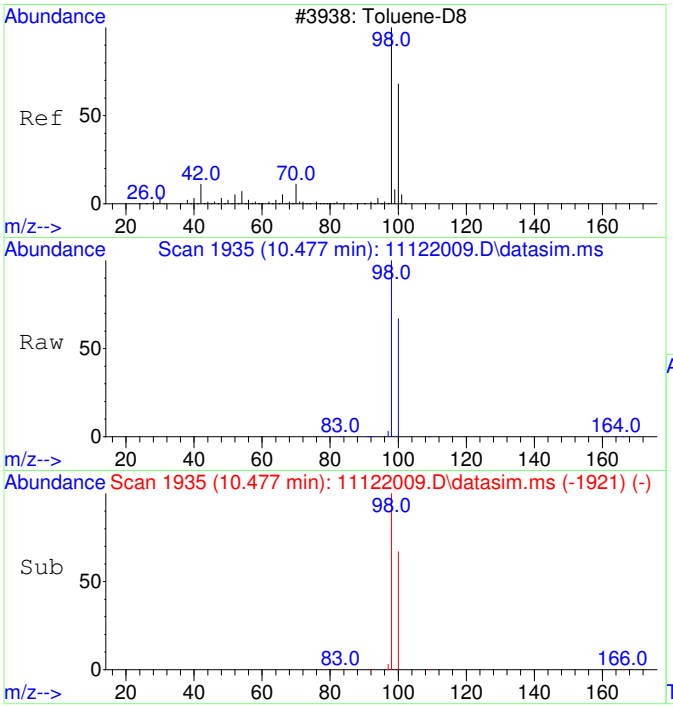


#11
Trichloroethene
Concen: 106304.70 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:130 Resp: 2156747

Ion	Ratio	Lower	Upper
130	100		
95	100.8	60.7	120.7
132	101.2	76.0	116.0
97	64.2	38.6	78.6

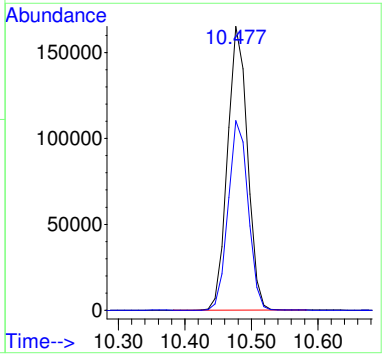


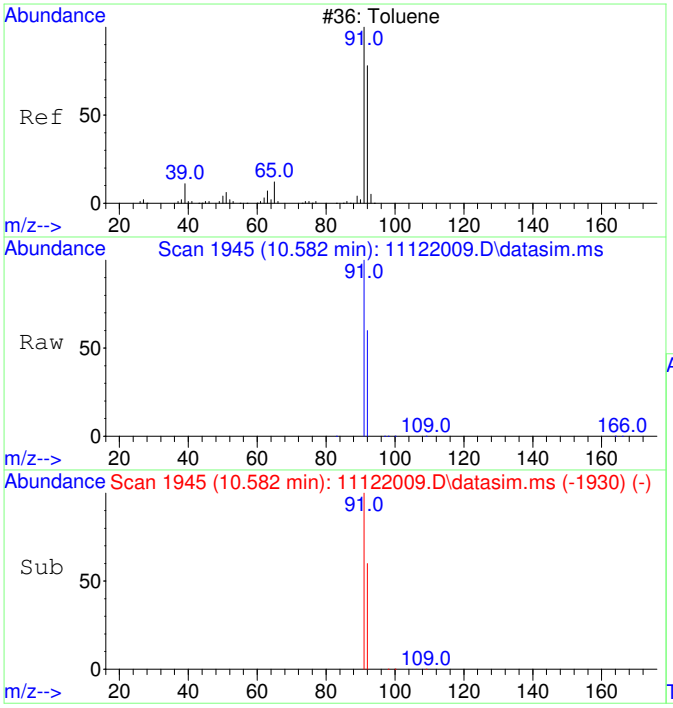


#12
Toluene-d8
Concen: 4419.04 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 98 Resp: 343084

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.1	97.1

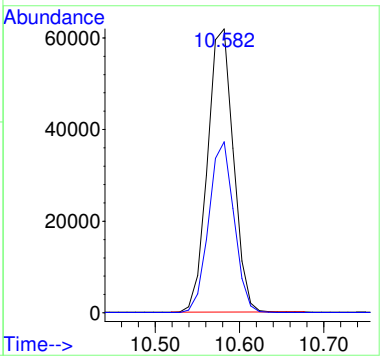


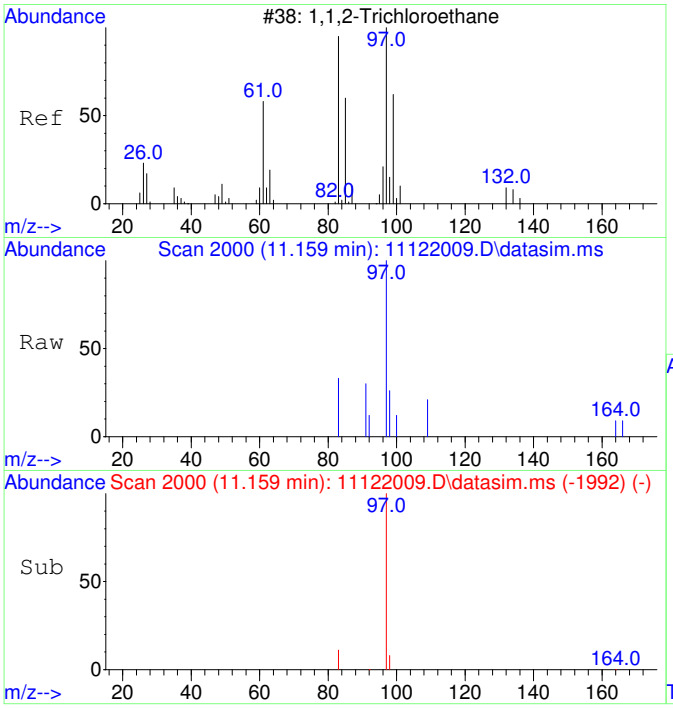


#13
Toluene
Concen: 1334.91 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 132131

Ion	Ratio	Lower	Upper
91	100		
92	58.8	29.9	89.9

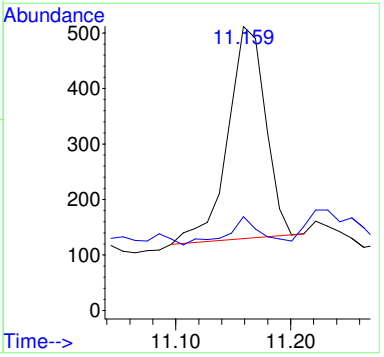


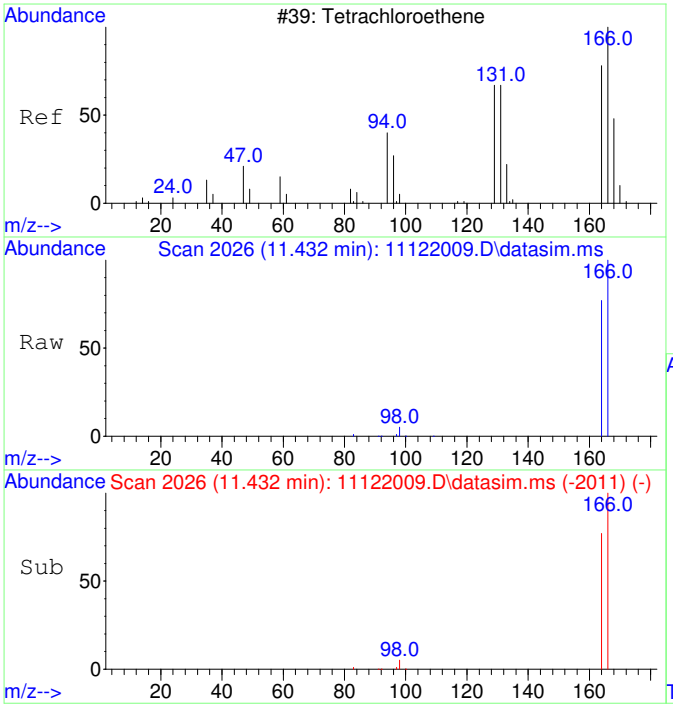


#14
1,1,2-Trichloroethane
Concen: 40.48 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 97 Resp: 873

Ion	Ratio	Lower	Upper
97	100		
83	12.0	51.2	111.2#

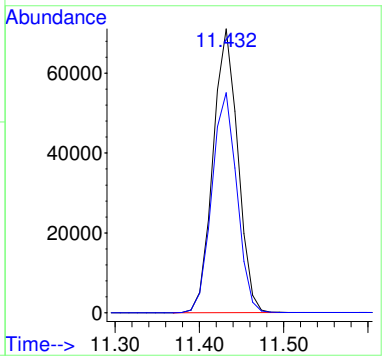


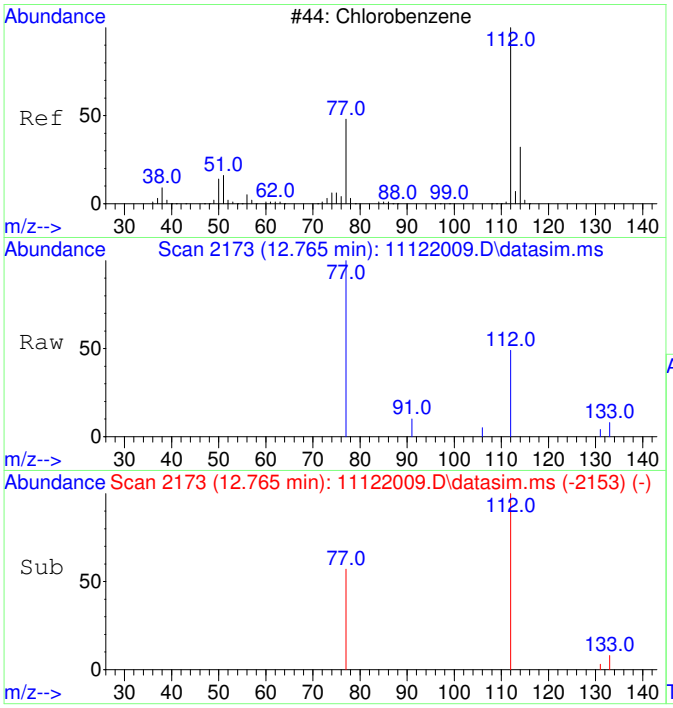


#15
Tetrachloroethene
Concen: 5075.21 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:166 Resp: 145379

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

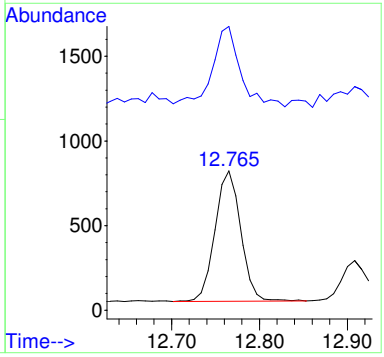


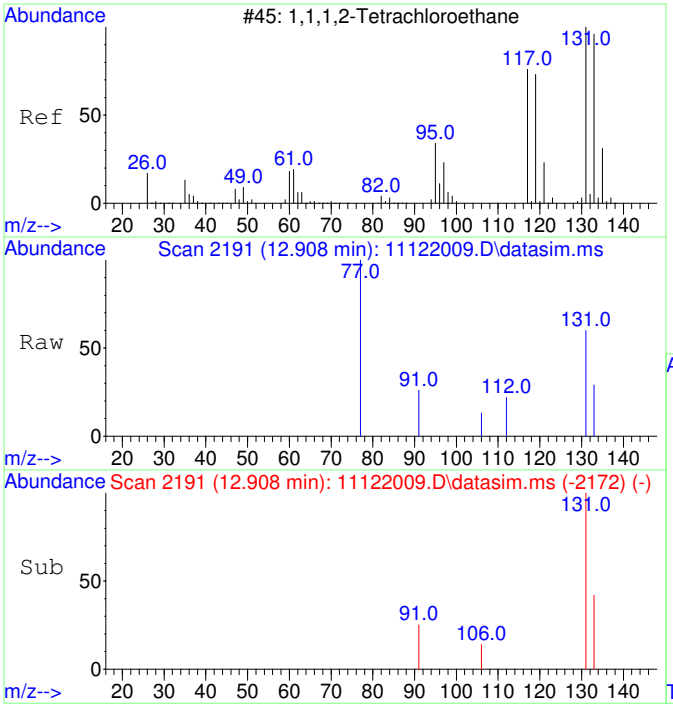


#16
Chlorobenzene
Concen: 22.07 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:112 Resp: 1564

Ion	Ratio	Lower	Upper
112	100		
77	68.5	23.6	83.6

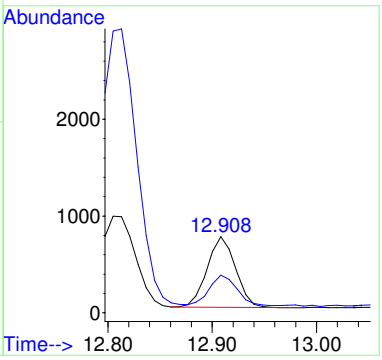


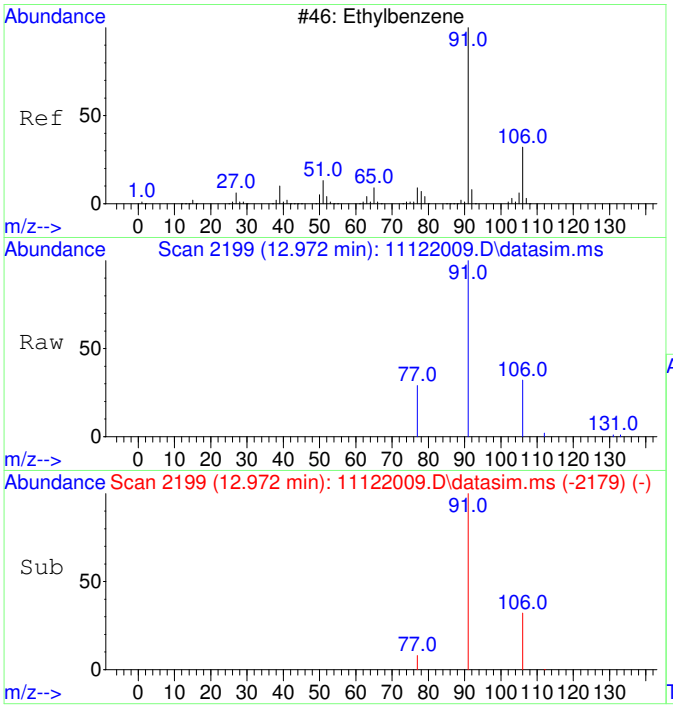


#17
1,1,1,2-Tetrachloroethane
Concen: 54.18 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:131 Resp: 1376

Ion	Ratio	Lower	Upper
131	100		
133	41.4	66.3	126.3#

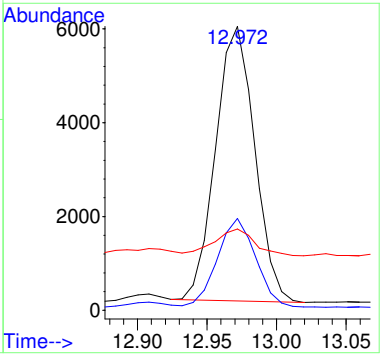


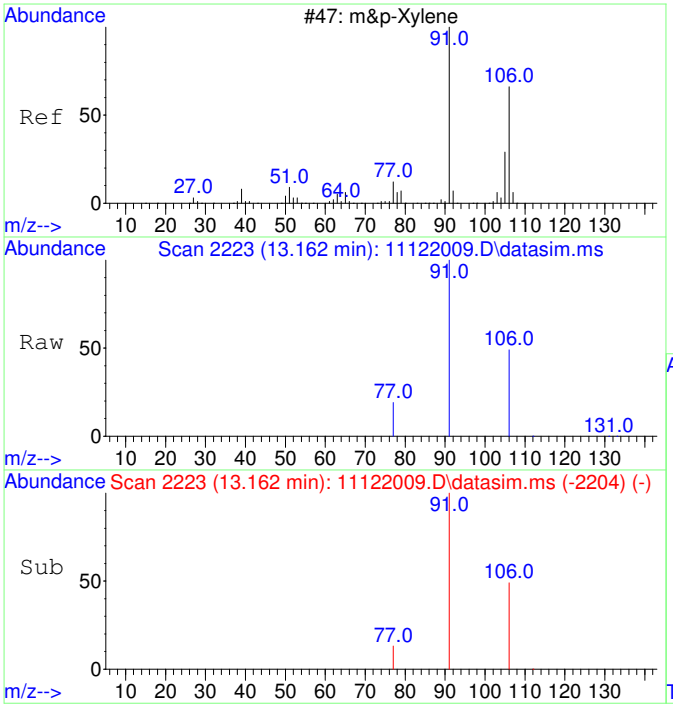


#18
Ethylbenzene
Concen: 94.75 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 11415

Ion	Ratio	Lower	Upper
91	100		
106	31.9	3.0	63.0
77	9.9	0.0	38.2

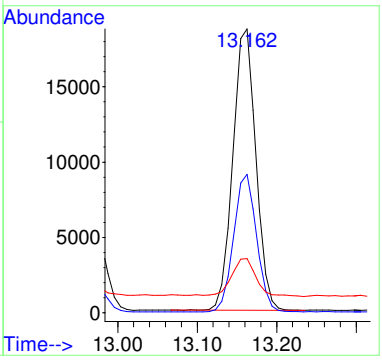


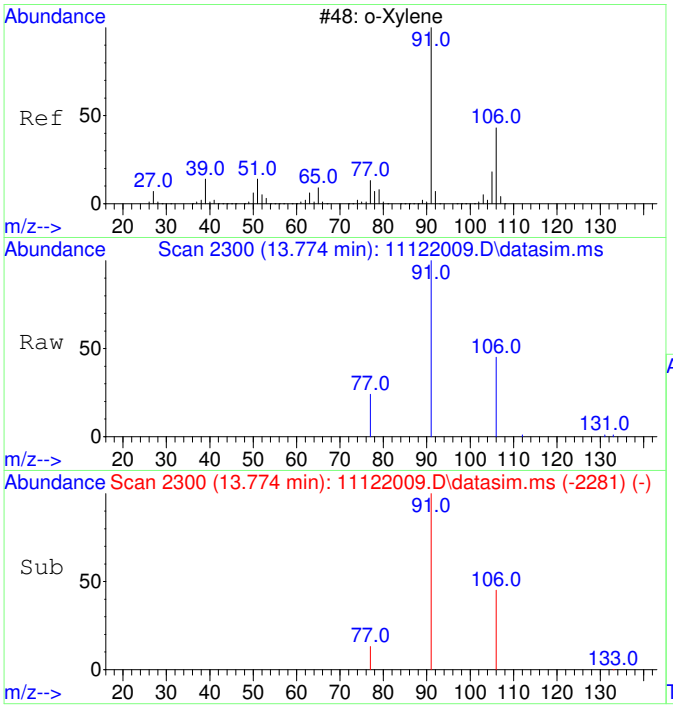


#19
m&p-Xylene
Concen: 401.79 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 37834

Ion	Ratio	Lower	Upper
91	100		
106	48.7	22.2	82.2
77	14.8	0.0	42.4

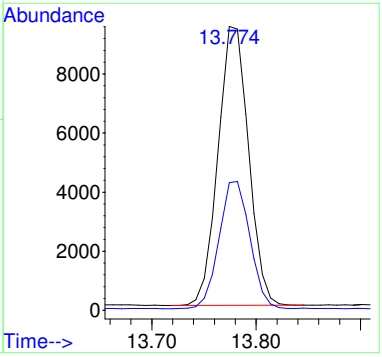


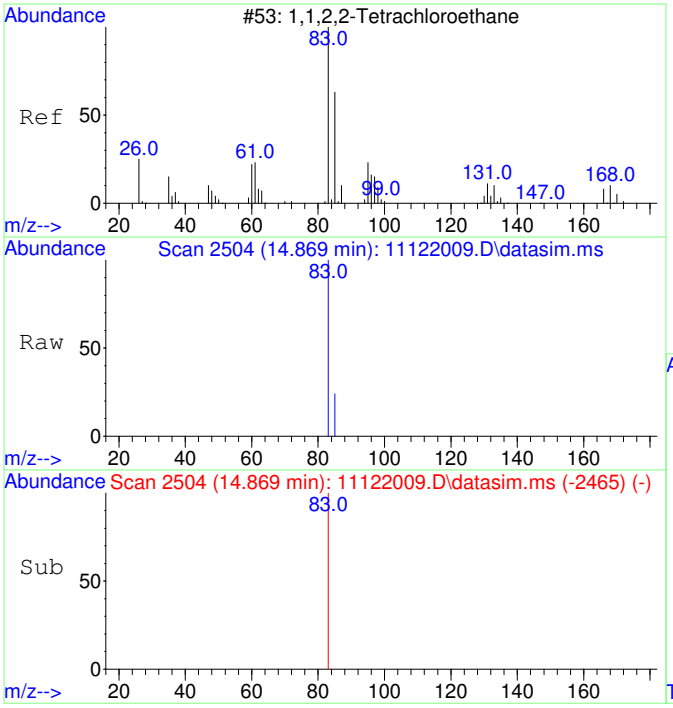


#20
o-Xylene
Concen: 190.55 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 19170

Ion	Ratio	Lower	Upper
91	100		
106	46.4	19.2	79.2

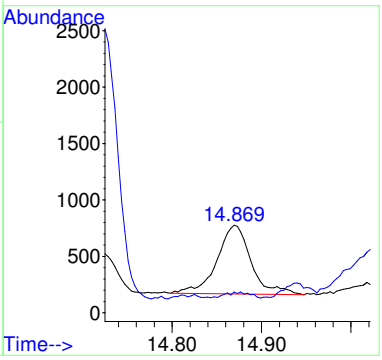


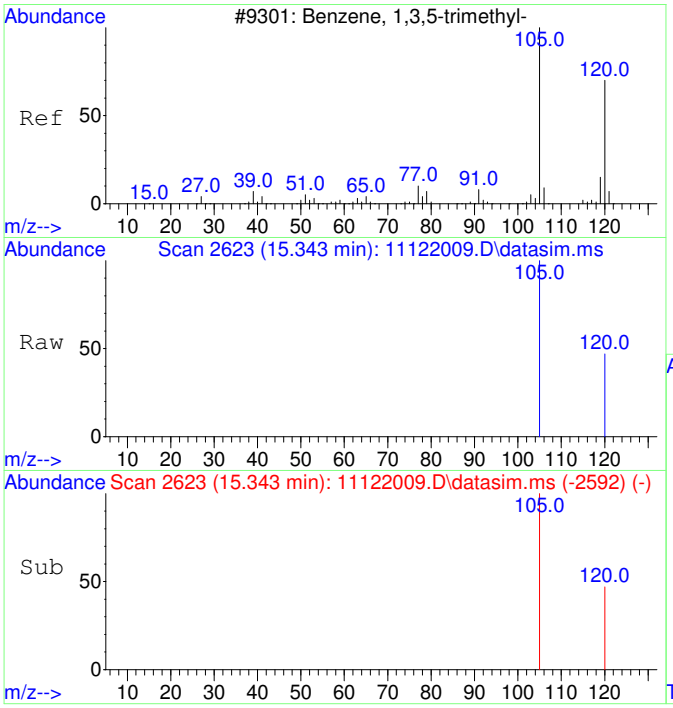


#21
1,1,2,2-Tetrachloroethane
Concen: 36.02 ug/L
RT: 14.869 min Scan# 2504
Delta R.T. -0.004 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 83 Resp: 1606

Ion	Ratio	Lower	Upper
83	100		
85	5.9	34.8	94.8#

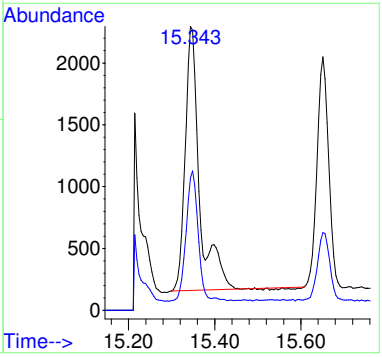


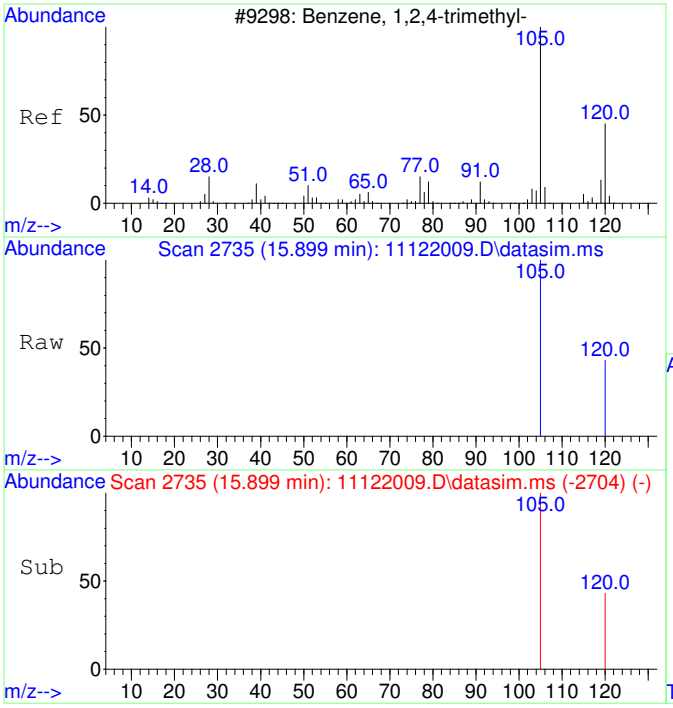


#22
1,3,5-Trimethylbenzene
Concen: 45.55 ug/L
RT: 15.343 min Scan# 2623
Delta R.T. -0.001 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:105 Resp: 4877

Ion	Ratio	Lower	Upper
105	100		
120	39.9	21.1	81.1

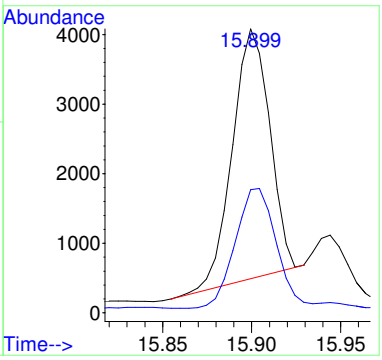


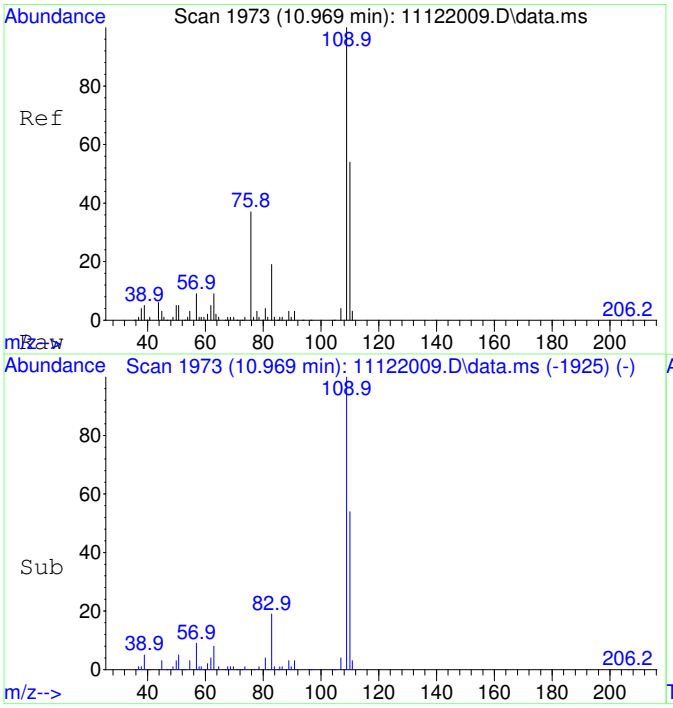


#23
1,2,4-Trimethylbenzene
Concen: 47.76 ug/L
RT: 15.899 min Scan# 2735
Delta R.T. 0.004 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:105 Resp: 5312

Ion	Ratio	Lower	Upper
105	100		
120	54.0	17.2	77.2

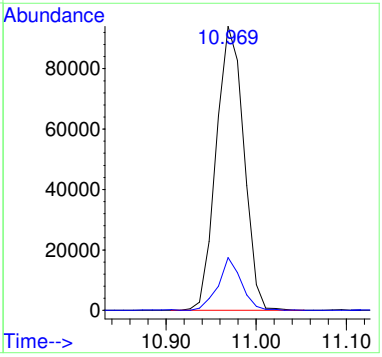


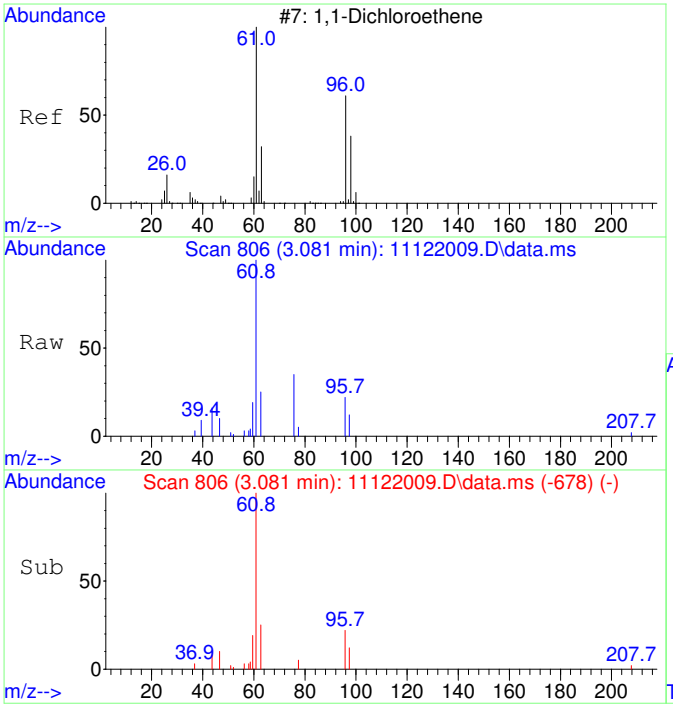


#25
2-Fluorotoluene SCAN
Concen: 5190.26 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:109 Resp: 200659

Ion	Ratio	Lower	Upper
109	100		
83	15.6	0.0	43.8

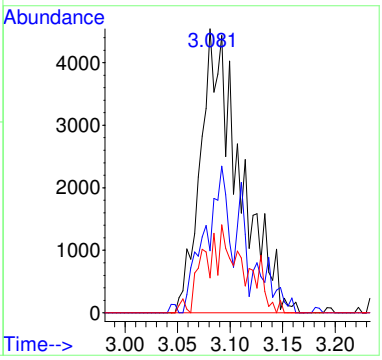


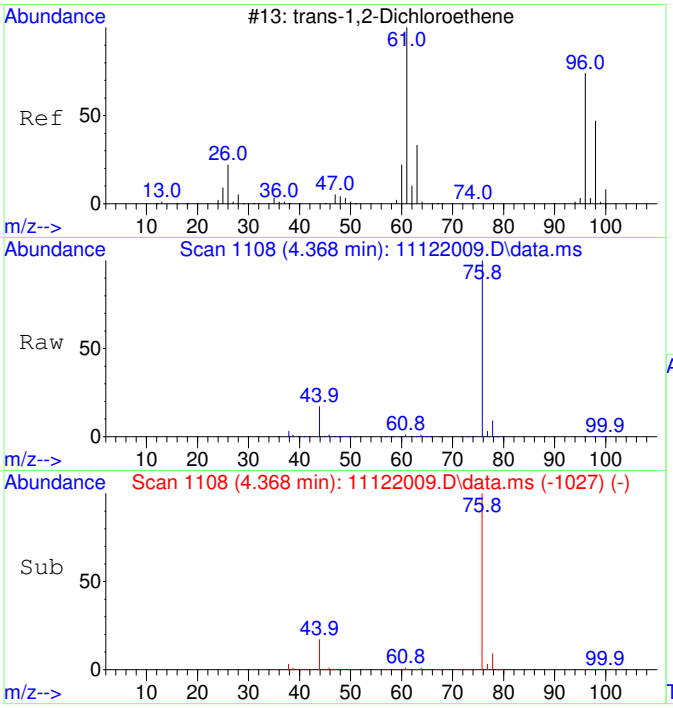


#26
1,1-Dichloroethene SCAN
Concen: 1437.08 ug/L
RT: 3.081 min Scan# 806
Delta R.T. -0.026 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 61 Resp: 11799

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.1	93.1#
98	4.7	11.2	71.2#

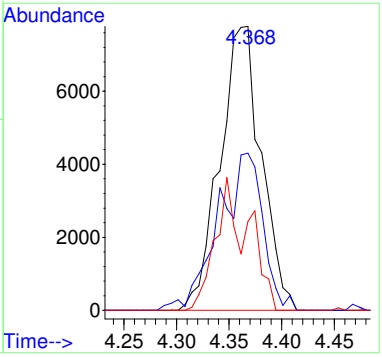


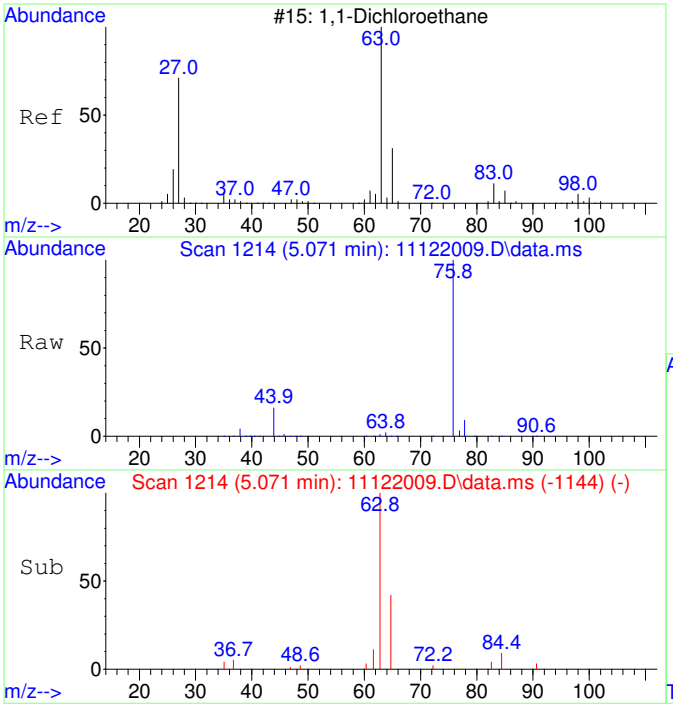


#27
trans-1,2-Dichloroethene SCAN
Concen: 2095.32 ug/L
RT: 4.368 min Scan# 1108
Delta R.T. -0.033 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 61 Resp: 21288

Ion	Ratio	Lower	Upper
61	100		
96	59.5	49.0	109.0
98	37.2	20.5	80.5

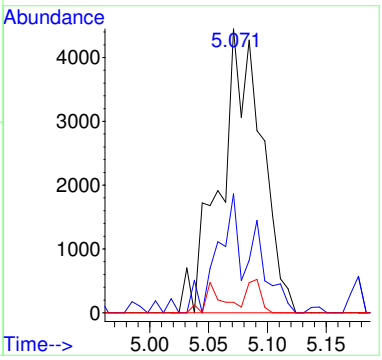


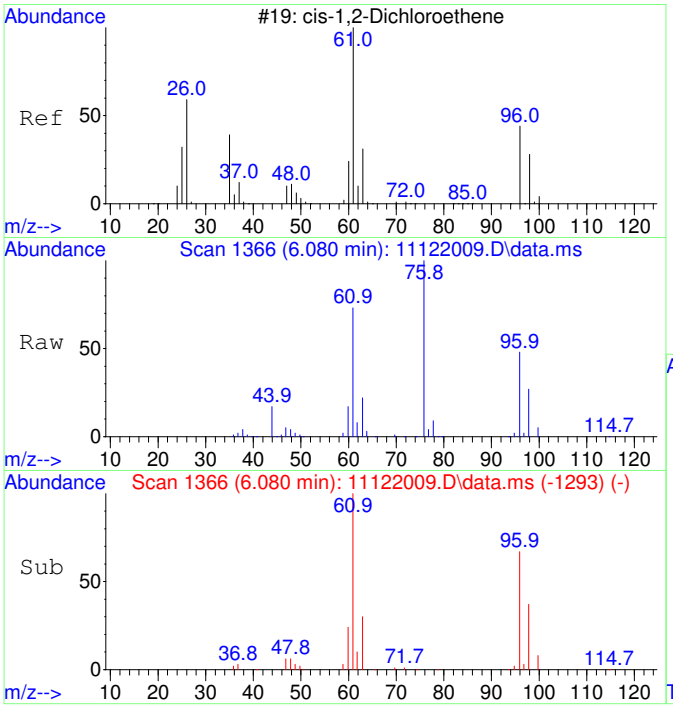


#28
1,1-Dichloroethane SCAN
Concen: 931.54 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. -0.033 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 63 Resp: 10953

Ion	Ratio	Lower	Upper
63	100		
65	34.6	1.3	61.3
83	3.3	0.0	45.9

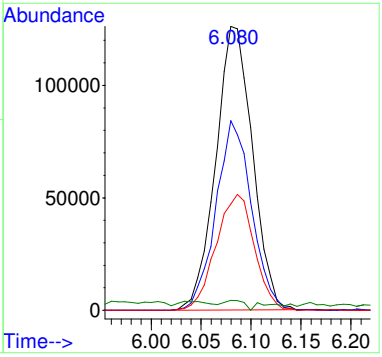


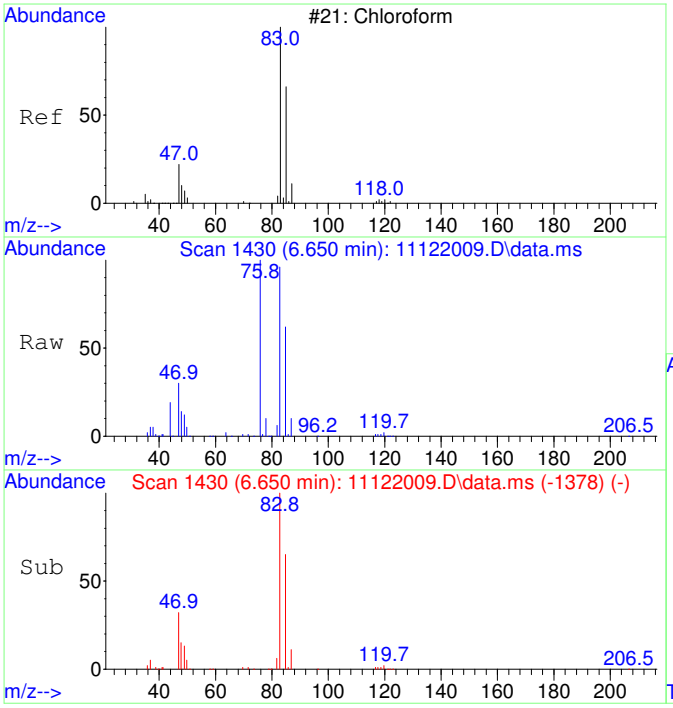


#29
cis-1,2-Dichloroethene SCAN
Concen: 25578.73 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. -0.013 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 61 Resp: 322230

Ion	Ratio	Lower	Upper
61	100		
96	65.3	39.9	99.9
98	42.7	13.5	73.5
64	1.1	4.5	64.5#

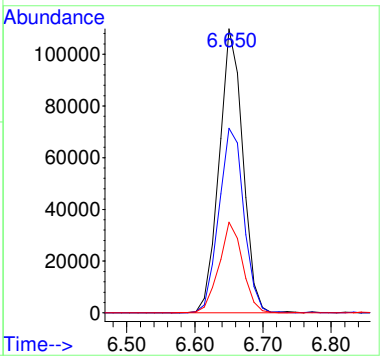


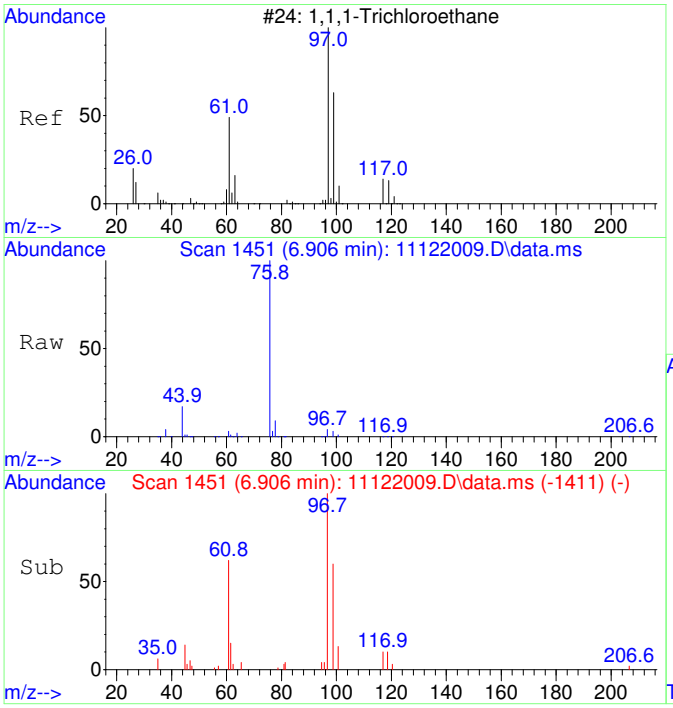


#30
Chloroform SCAN
Concen: 19329.28 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 83 Resp: 264112

Ion	Ratio	Lower	Upper
83	100		
85	68.7	34.6	94.6
47	32.0	0.0	53.4

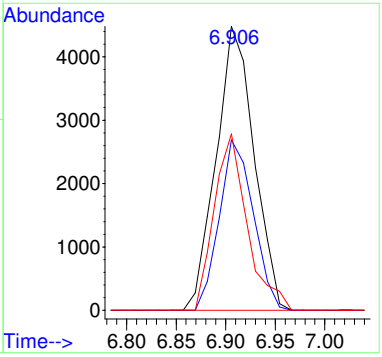


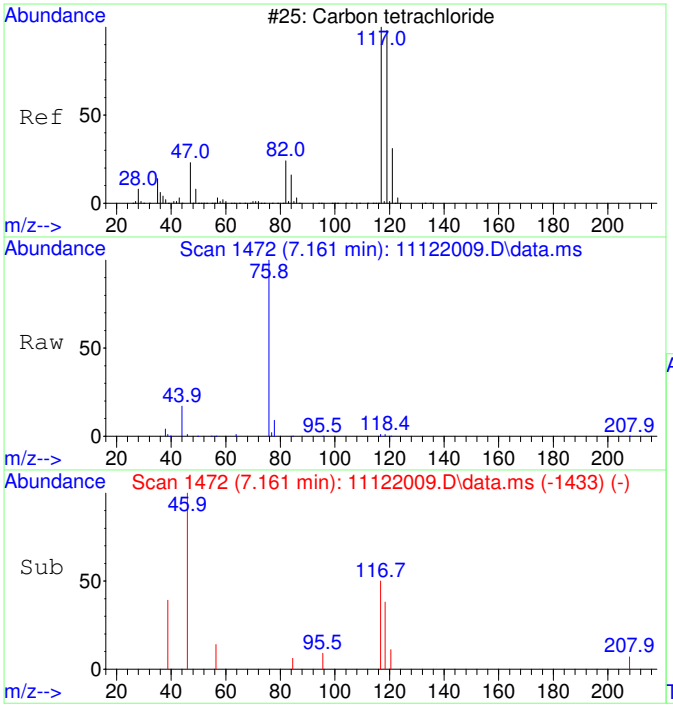


#31
1,1,1-Trichloroethane SCAN
Concen: 959.39 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 97 Resp: 11946

Ion	Ratio	Lower	Upper
97	100		
99	53.9	43.6	103.6
61	54.0	18.0	78.0

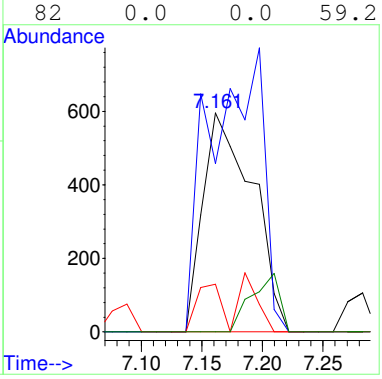


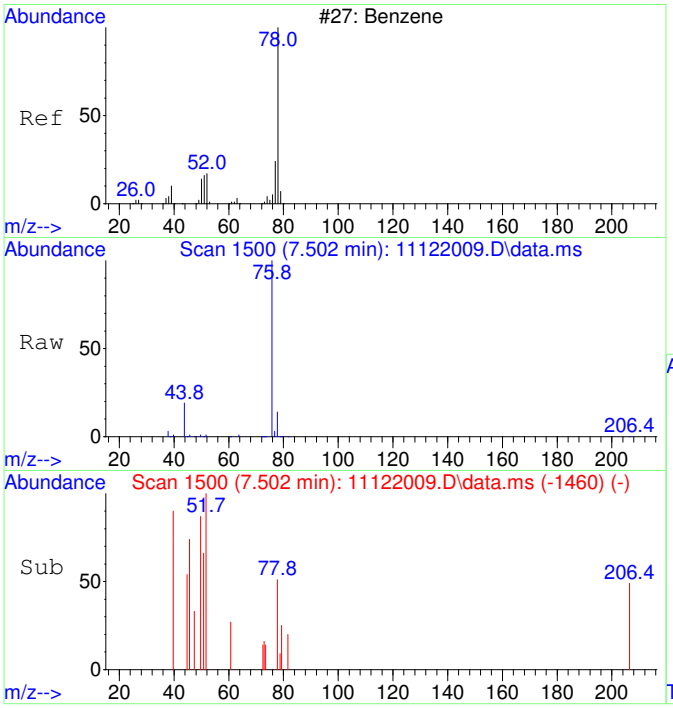


#32
Carbon tetrachloride SCAN
Concen: 131.19 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.024 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:117 Resp: 1704

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	10.7	0.0	58.8
82	0.0	0.0	59.2

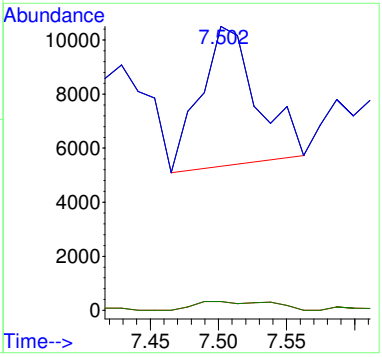


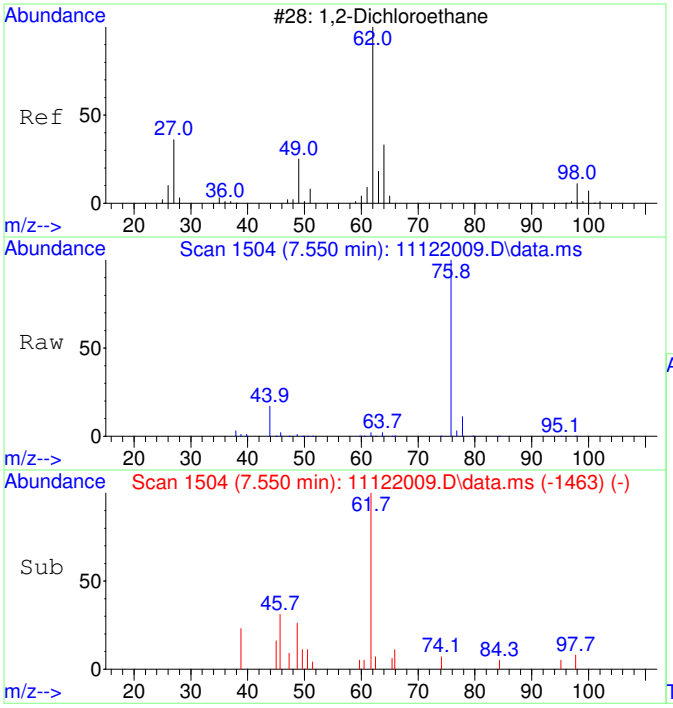


#33
Benzene SCAN
Concen: 437.41 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 78 Resp: 14996

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.7	0.0	47.9
51	8.7	0.0	44.1

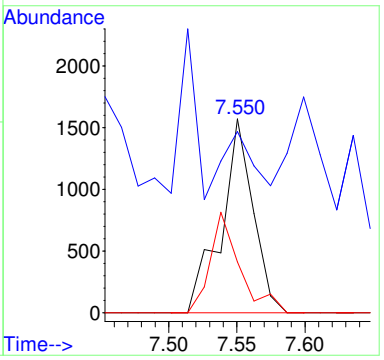


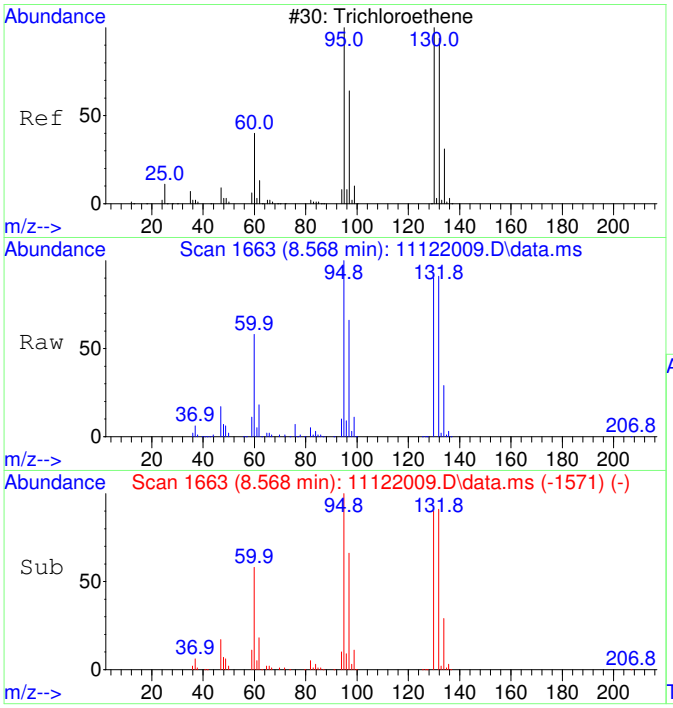


#34
1,2-Dichloroethane SCAN
Concen: 202.69 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 62 Resp: 2566

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	47.9	3.9	63.9

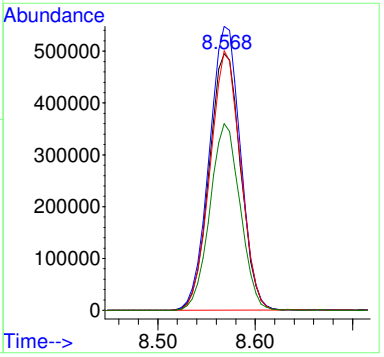


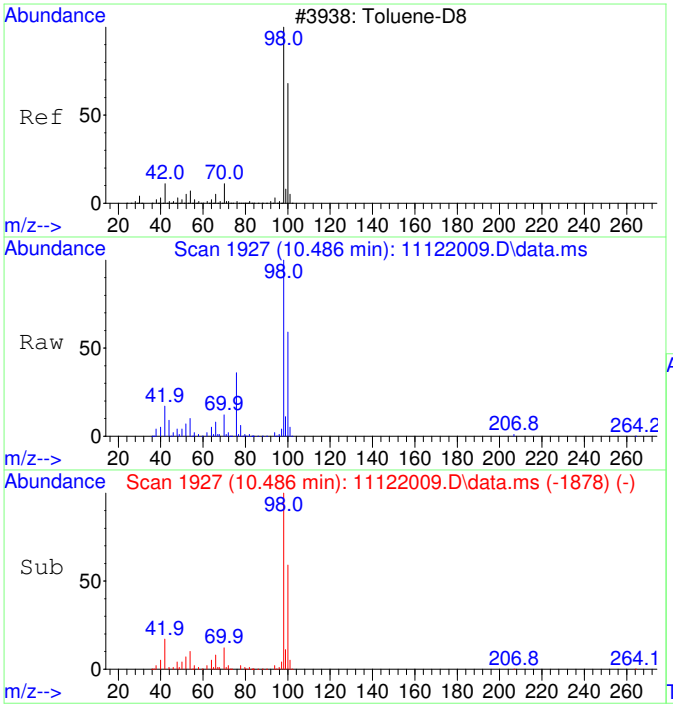


#35
Trichloroethene SCAN
Concen: 117678.64 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:130 Resp: 1108702

Ion	Ratio	Lower	Upper
130	100		
95	110.2	60.5	120.5
132	98.1	59.6	119.6
97	69.9	28.2	88.2

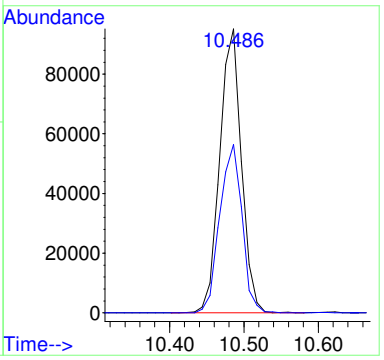


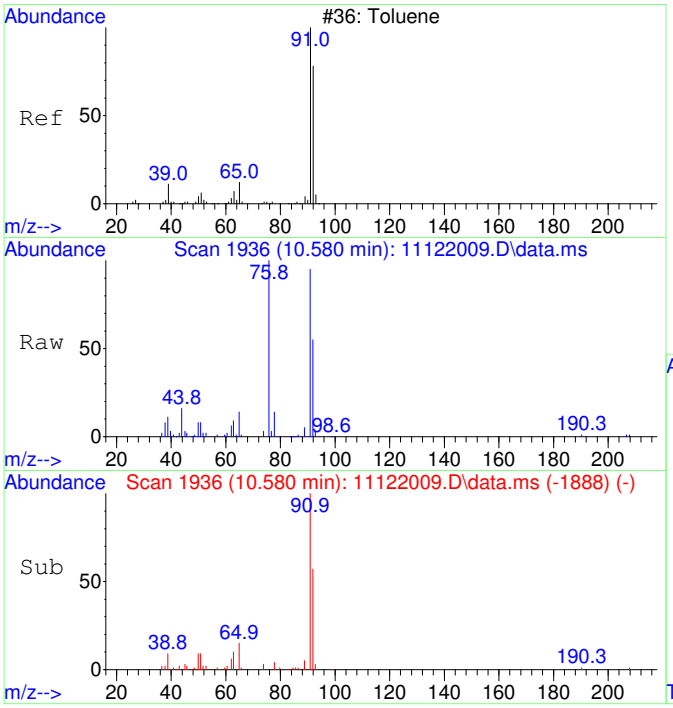


#36
Toluene-d8 SCAN
Concen: 5078.32 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 98 Resp: 192006

Ion	Ratio	Lower	Upper
98	100		
100	60.8	40.0	100.0

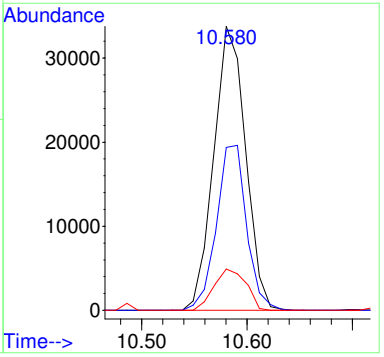


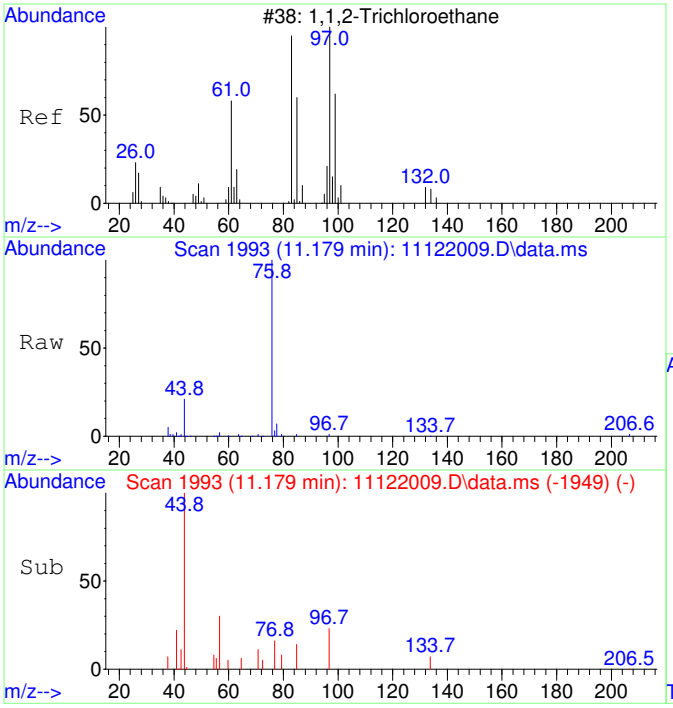


#37
Toluene SCAN
Concen: 1465.78 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 70973

Ion	Ratio	Lower	Upper
91	100		
92	55.2	28.3	88.3
65	14.7	0.0	41.0

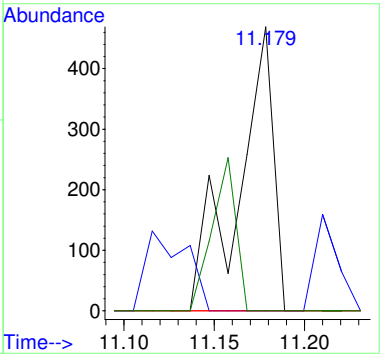


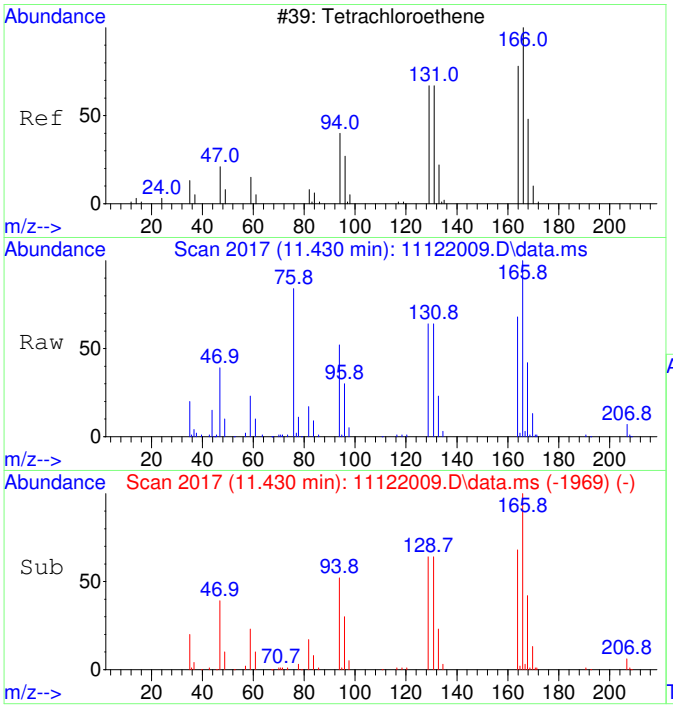


#38
1,1,2-Trichloroethane SCAN
Concen: 58.70 ug/L
RT: 11.179 min Scan# 1993
Delta R.T. -0.042 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 97 Resp: 638

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#

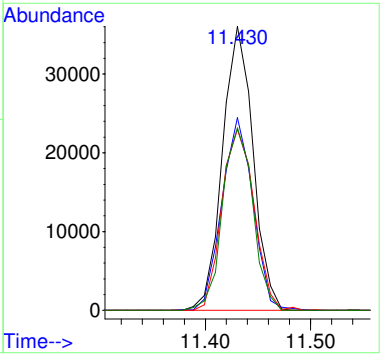


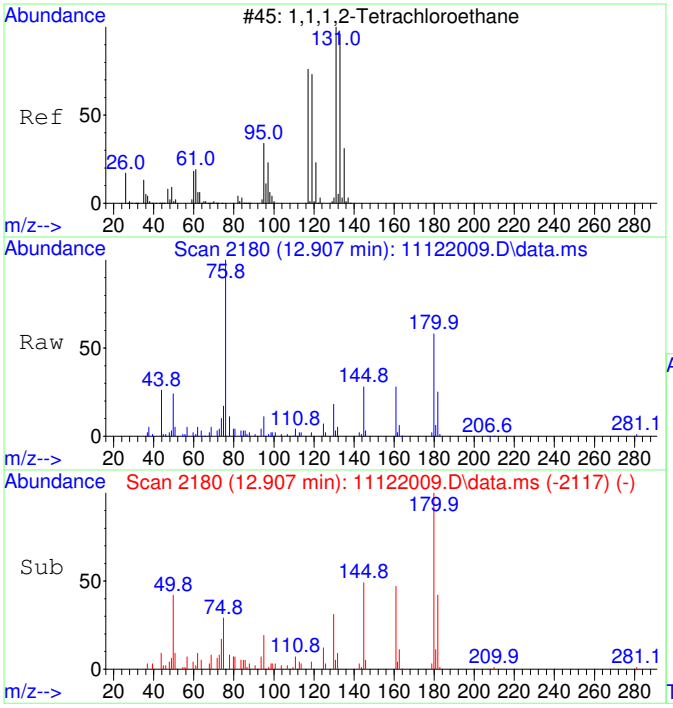


#39
Tetrachloroethene SCAN
Concen: 6259.30 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:166 Resp: 72813

Ion	Ratio	Lower	Upper
166	100		
164	69.0	50.9	110.9
131	67.7	38.7	98.7
129	64.1	41.8	101.8

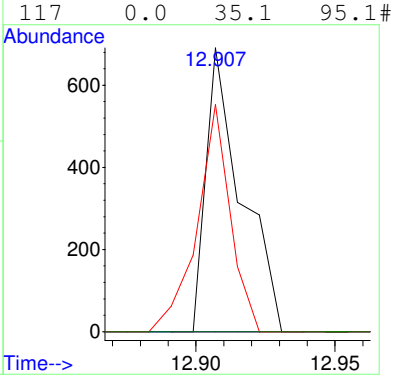


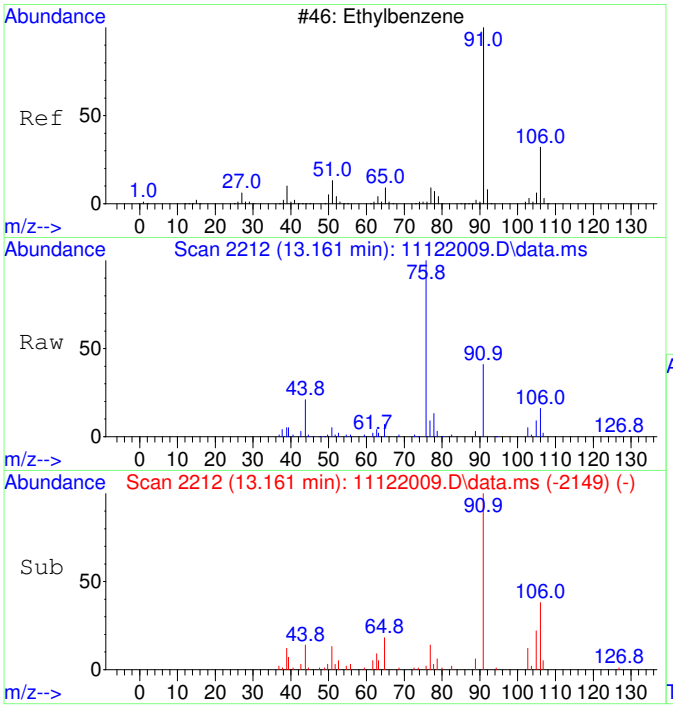


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 50.23 ug/L
RT: 12.907 min Scan# 2180
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:131 Resp: 615

Ion	Ratio	Lower	Upper
131	100		
133	0.0	66.9	126.9#
119	74.5	40.4	100.4
117	0.0	35.1	95.1#

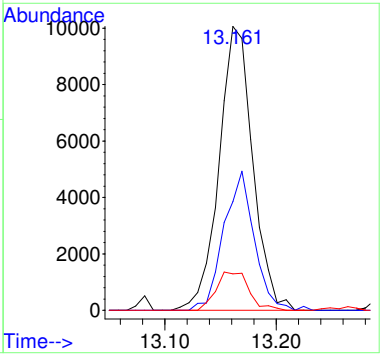


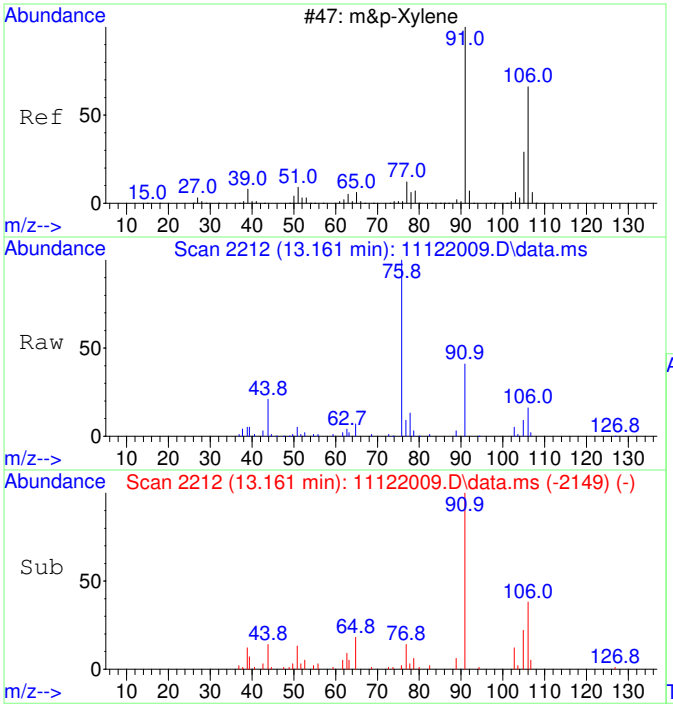


#42
Ethylbenzene SCAN
Concen: 240.60 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 21224

Ion	Ratio	Lower	Upper
91	100		
106	44.4	23.1	83.1
51	13.2	0.0	40.1

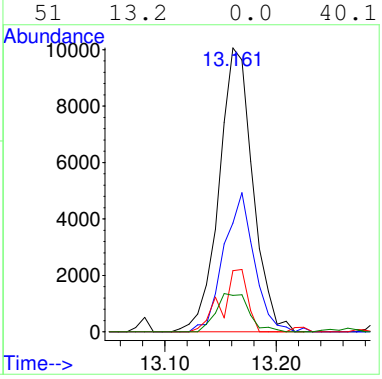


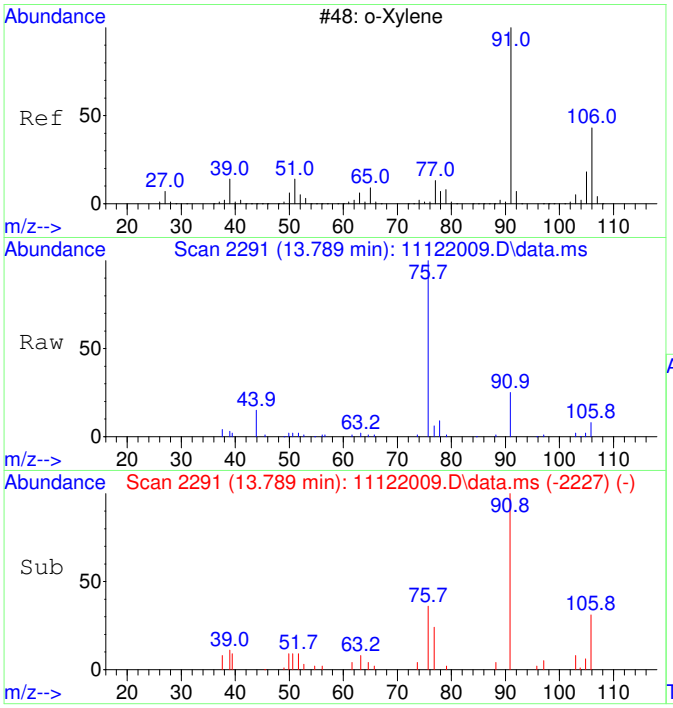


#43
m&p-Xylene SCAN
Concen: 240.60 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 21224

Ion	Ratio	Lower	Upper
91	100		
106	44.4	23.1	83.1
105	16.6	0.0	54.7
51	13.2	0.0	40.1

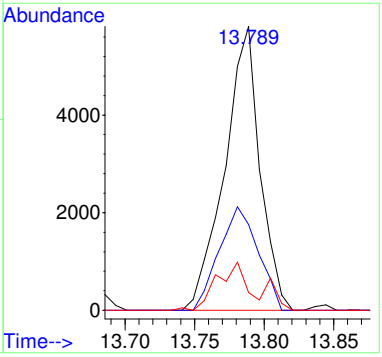


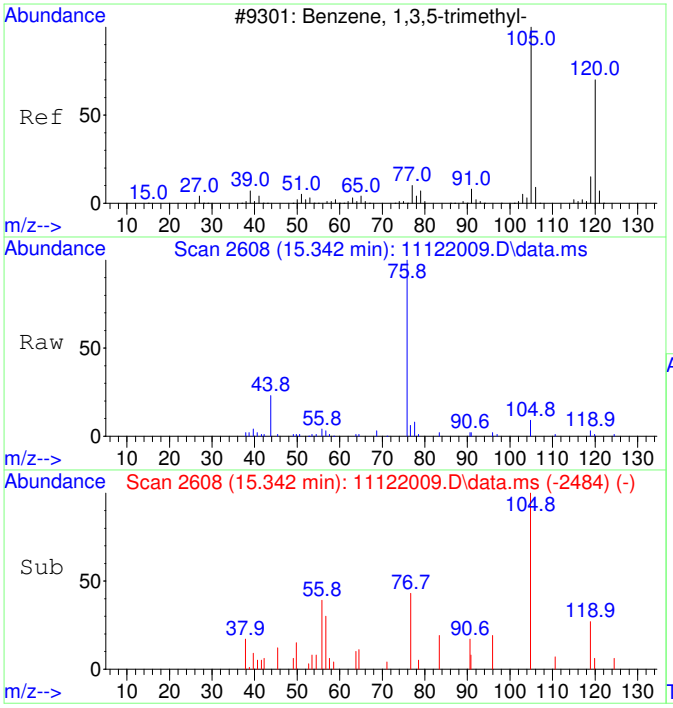


#44
o-Xylene SCAN
Concen: 217.46 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. 0.008 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion: 91 Resp: 10268

Ion	Ratio	Lower	Upper
91	100		
106	40.2	18.0	78.0
105	18.3	0.0	56.6

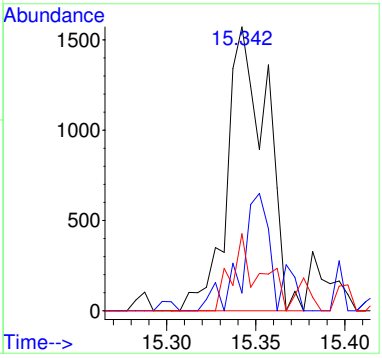


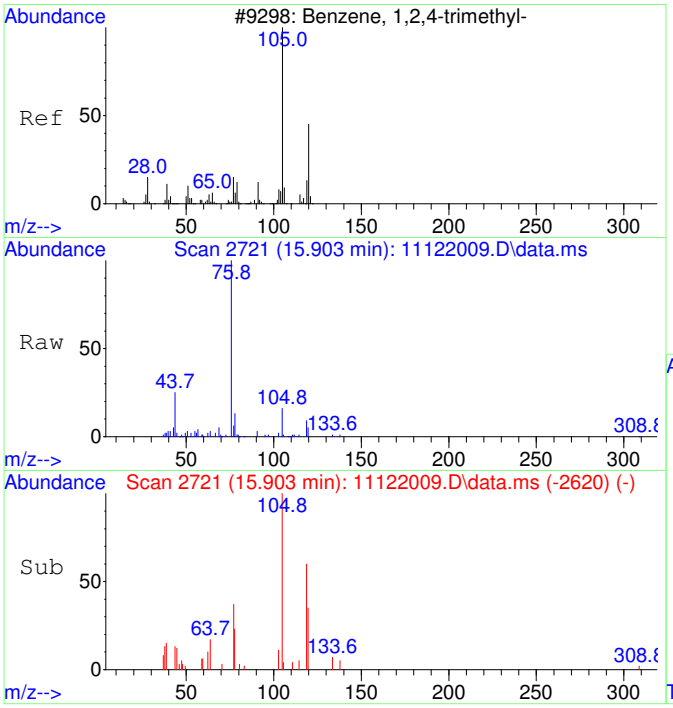


#46
1,3,5-Trimethylbenzene SCAN
Concen: 49.13 ug/L
RT: 15.342 min Scan# 2608
Delta R.T. -0.001 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:105 Resp: 2445

Ion	Ratio	Lower	Upper
105	100		
120	33.1	18.3	78.3
119	19.2	0.0	43.1

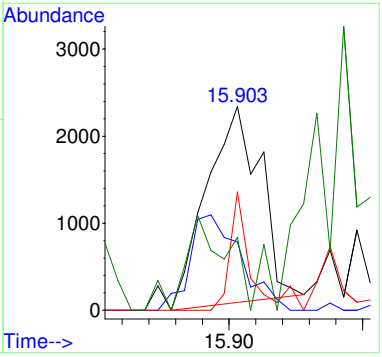




#47
1,2,4-Trimethylbenzene SCAN
Concen: 62.26 ug/L
RT: 15.903 min Scan# 2721
Delta R.T. 0.004 min
Lab File: 11122009.D
Acq: 12 Nov 2020 11:37

Tgt Ion:105 Resp: 3170

Ion	Ratio	Lower	Upper
105	100		
120	46.1	16.9	76.9
119	18.5	0.0	41.9
77	38.0	0.0	42.3



2011015-02

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122010.D
Acq On : 12 Nov 2020 12:01
InstName : AG5975C
Operator : TD
Sample : 2011015-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 12 12:20:22 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

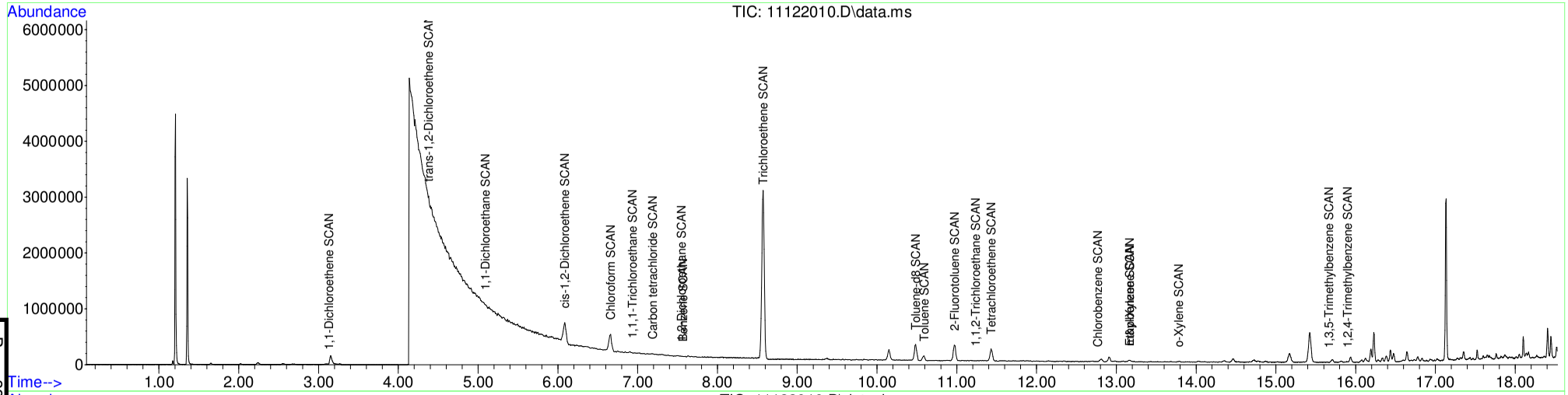
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	460310	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	395990	4394.49 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.89%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	18371	999.46 ug/L	79
3] trans-1,2-Dichloroethene	4.369	61	30744	1447.68 ug/L	99
4] 1,1-Dichloroethane	5.079	63	16234	614.09 ug/L	97
5] cis-1,2-Dichloroethene	6.081	61	540382	19365.28 ug/L	99
6] Chloroform	6.652	83	477527	16719.24 ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	18041	581.63 ug/L	99
8] Carbon tetrachloride	7.187	117	2851	97.66 ug/L	98
9] Benzene	7.503	78	8370	107.02 ug/L #	29
10] 1,2-Dichloroethane	7.539	62	3493	125.11 ug/L	78
11] Trichloroethene	8.569	130	2044861	86838.82 ug/L OC	92
13] Toluene	10.582	91	123152	1071.98 ug/L	99
15] Tetrachloroethene	11.432	166	139073	4183.04 ug/L	100
16] Chlorobenzene	12.765	112	1669	20.29 ug/L	64
17] 1,1,1,2-Tetrachloroethane	12.908	131	1327	45.02 ug/L #	44
18] Ethylbenzene	12.972	91	10395	74.34 ug/L	96
19] m&p-Xylene	13.162	91	34940	319.70 ug/L	95
20] o-Xylene	13.782	91	17881	153.14 ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.873	83	1628	31.46 ug/L #	25
22] 1,3,5-Trimethylbenzene	15.345	105	3582	28.82 ug/L	95
23] 1,2,4-Trimethylbenzene	15.901	105	5706	44.20 ug/L	91
25) 2-Fluorotoluene SCAN	10.969	109	230973	5147.41 ug/L	91
26) 1,1-Dichloroethene SCAN	3.126	61	798	83.74 ug/L	81
27) trans-1,2-Dichloroethe...	4.381	61	19940	1690.97 ug/L	77
28) 1,1-Dichloroethane SCAN	5.084	63	9982	731.44 ug/L	89
29) cis-1,2-Dichloroethene...	6.086	61	322960	22088.11 ug/L #	81
30) Chloroform SCAN	6.662	83	282449	17810.02 ug/L	96
31) 1,1,1-Trichloroethane ...	6.930	97	8165	564.97 ug/L #	19
32) Carbon tetrachloride SCAN	7.185	117	1889	125.31 ug/L	97
33) Benzene SCAN	7.563	78	3764	94.59 ug/L	99
34) 1,2-Dichloroethane SCAN	7.550	62	1759	119.71 ug/L #	40
35) Trichloroethene SCAN	8.568	130	1046807	95729.60 ug/L	83
36) Toluene-d8 SCAN	10.486	98	212947	4852.59 ug/L	97
37) Toluene SCAN	10.591	91	70429	1253.21 ug/L	98
38) 1,1,2-Trichloroethane ...	11.231	97	280	22.20 ug/L #	13
39) Tetrachloroethene SCAN	11.430	166	66855	4951.63 ug/L	92
40) Chlorobenzene SCAN	12.764	112	994	25.88 ug/L #	53
42) Ethylbenzene SCAN	13.161	91	19138	186.92 ug/L	88
43) m&p-Xylene SCAN	13.161	91	19138	186.92 ug/L	91
44) o-Xylene SCAN	13.781	91	12041	219.71 ug/L	90
46) 1,3,5-Trimethylbenzene...	15.661	105	1296	22.44 ug/L	65
47) 1,2,4-Trimethylbenzene...	15.899	105	4628	78.31 ug/L	94

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122010.D
Acq On : 12 Nov 2020 12:01
InstName : AG5975C
Operator : TD
Sample : 2011015-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 12 12:20:22 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



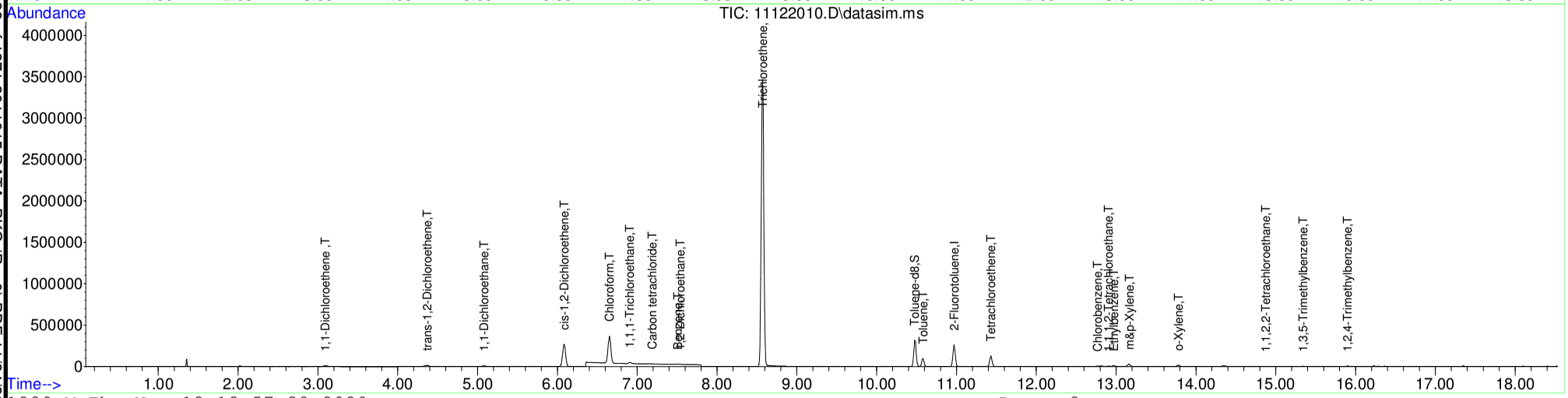
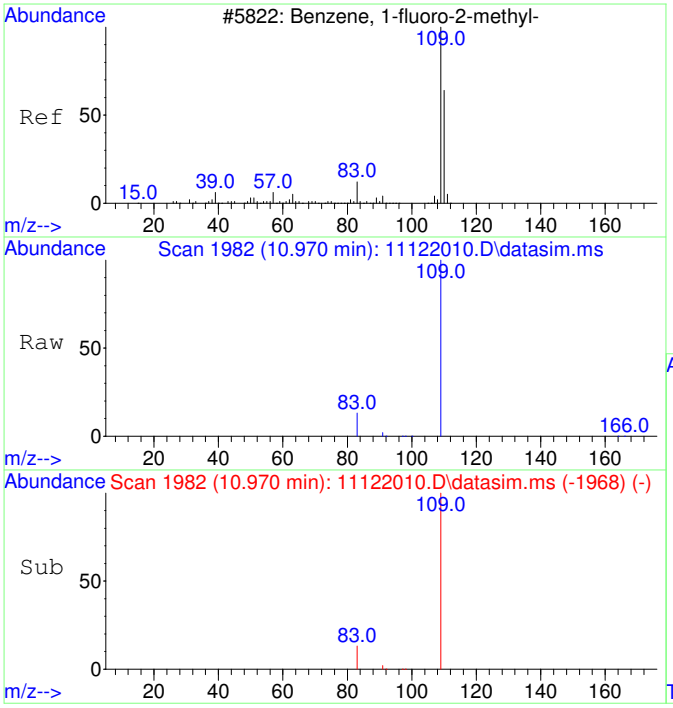


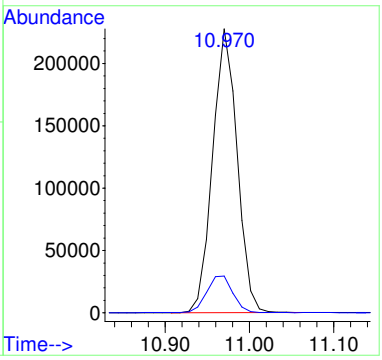
Table of Contents

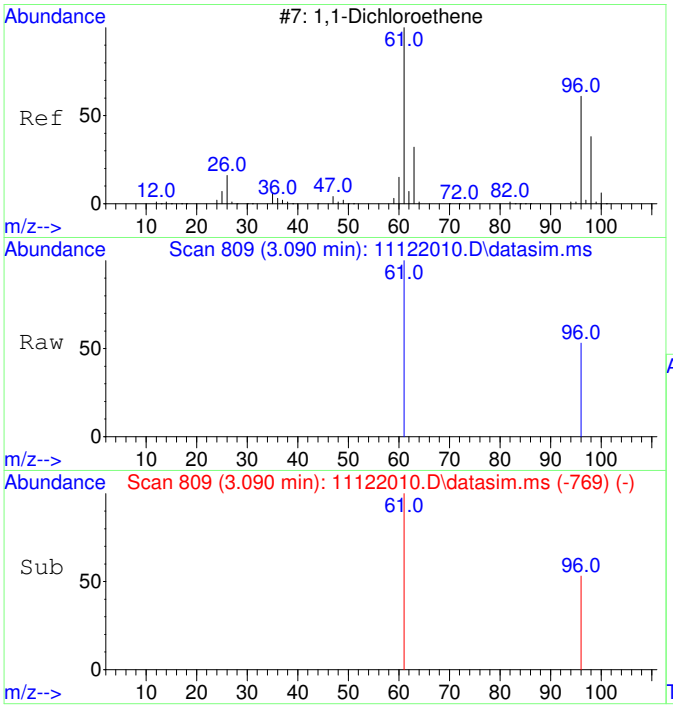


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:109 Resp: 460310

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

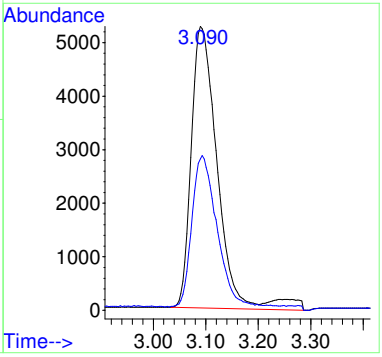




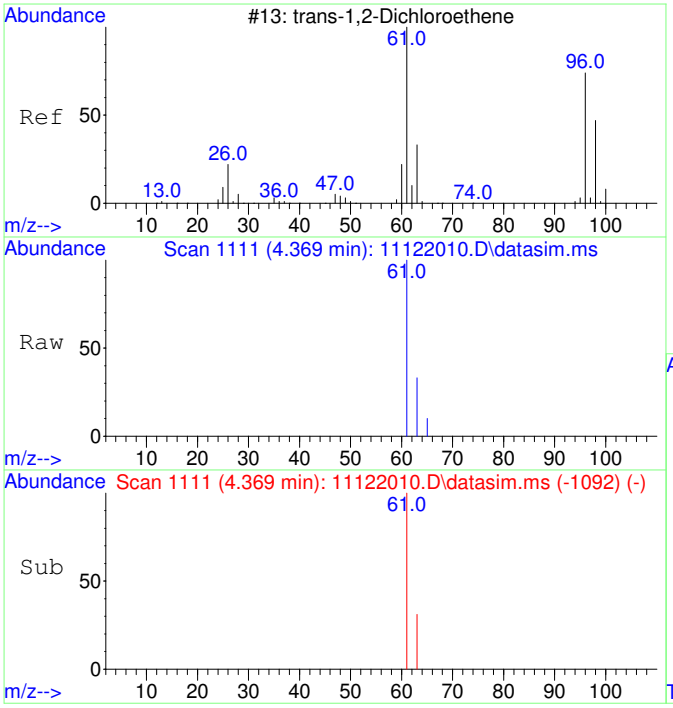
#2
1,1-Dichloroethene
Concen: 999.46 ug/L
RT: 3.090 min Scan# 809
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 61 Resp: 18371

Ion	Ratio	Lower	Upper
61	100		
96	49.9	37.2	97.2



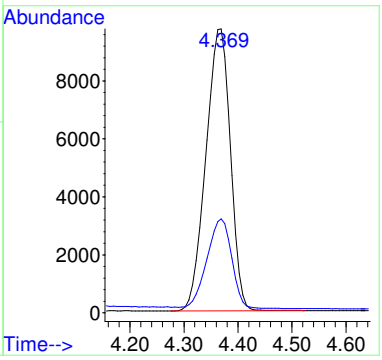
Before MI:
IMPROPER
BASELINE

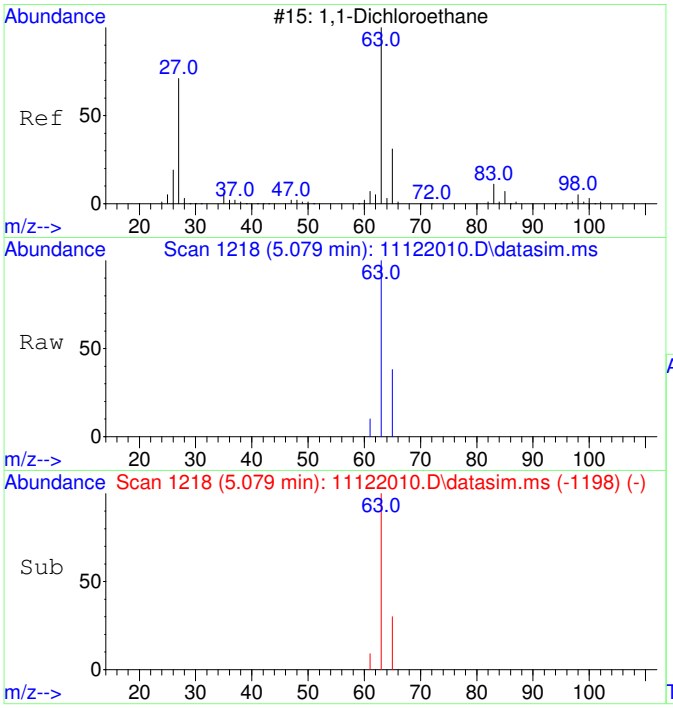


#3
trans-1,2-Dichloroethene
Concen: 1447.68 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. -0.027 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 61 Resp: 30744

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.4	62.4

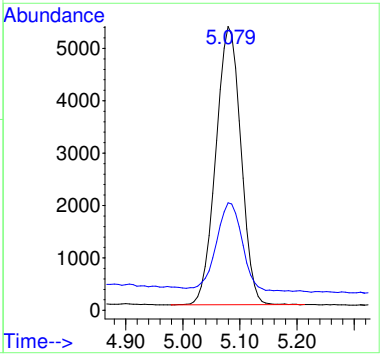


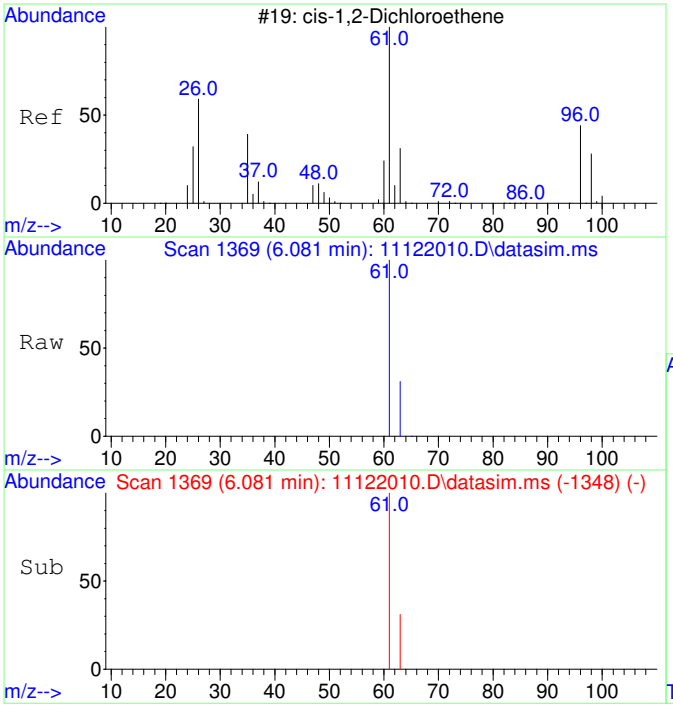


#4
1,1-Dichloroethane
Concen: 614.09 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 63 Resp: 16234

Ion	Ratio	Lower	Upper
63	100		
65	33.5	1.8	61.8

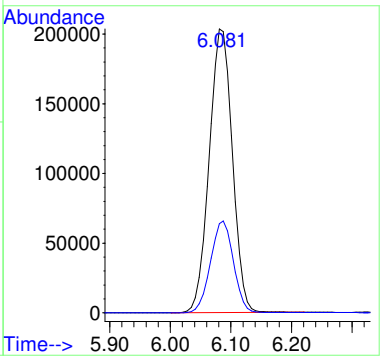


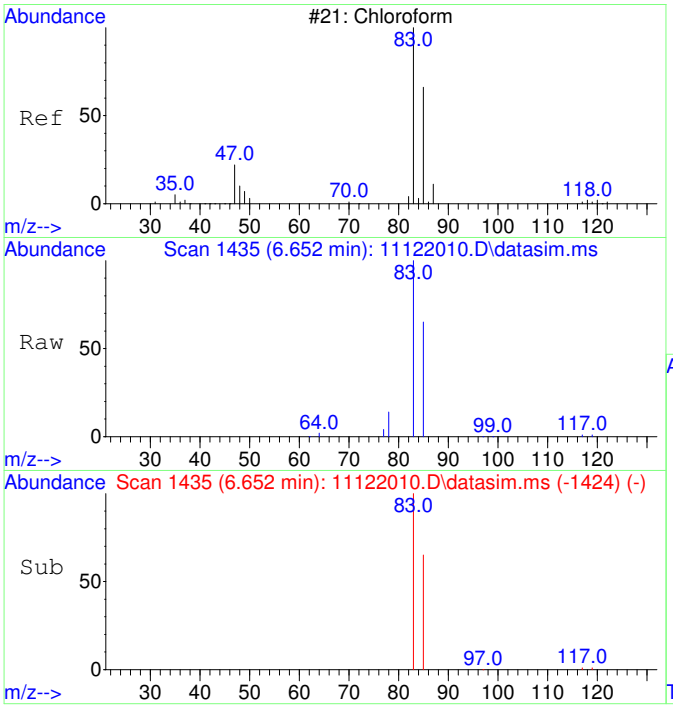


#5
cis-1,2-Dichloroethene
Concen: 19365.28 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 61 Resp: 540382

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

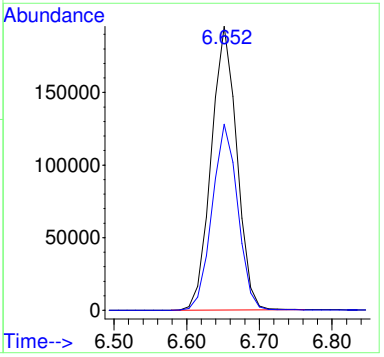


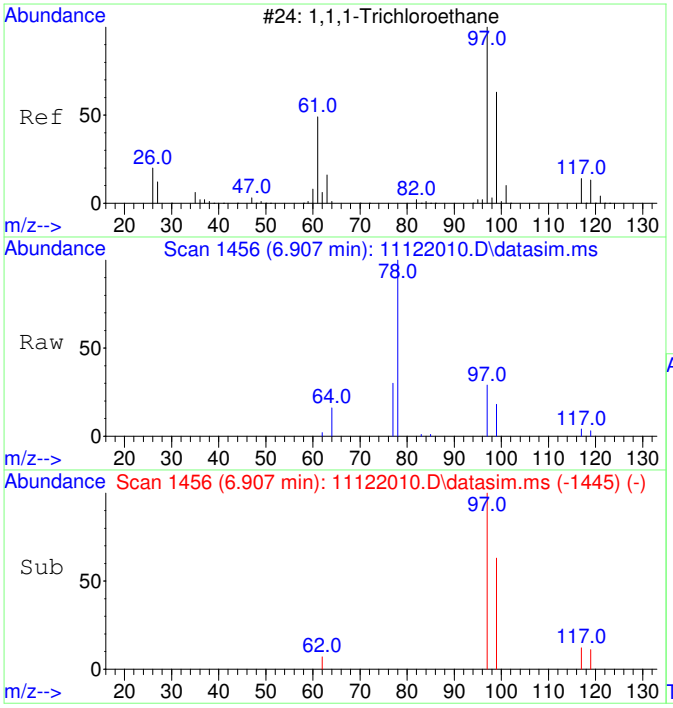


#6
Chloroform
Concen: 16719.24 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 83 Resp: 477527

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.1	95.1

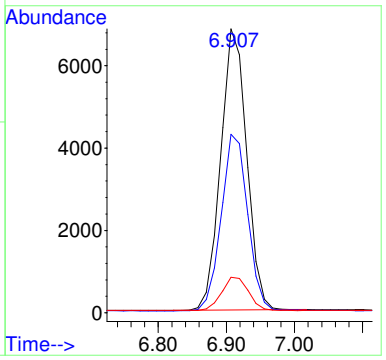


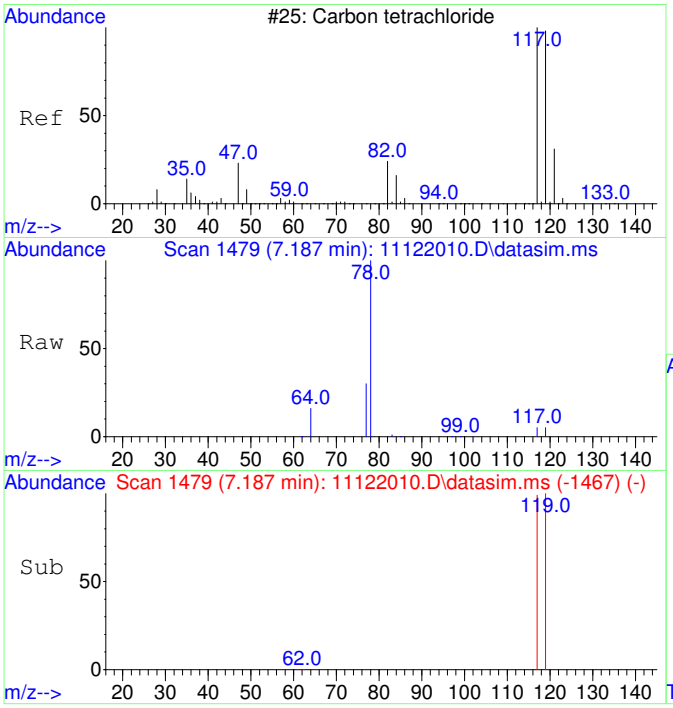


#7
1,1,1-Trichloroethane
Concen: 581.63 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 97 Resp: 18041

Ion	Ratio	Lower	Upper
97	100		
99	63.6	34.6	94.6
117	12.2	0.0	43.2

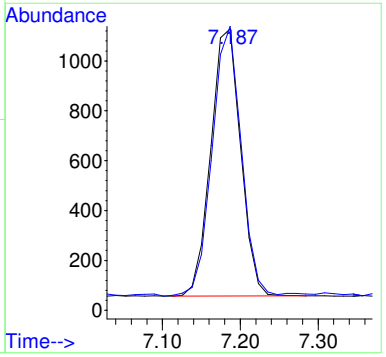


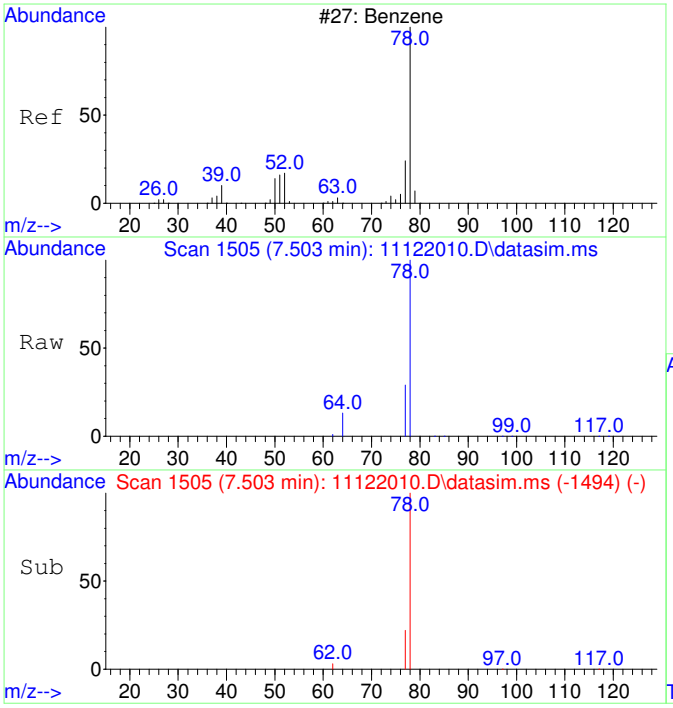


#8
Carbon tetrachloride
Concen: 97.66 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:117 Resp: 2851

Ion	Ratio	Lower	Upper
117	100		
119	98.6	66.4	126.4

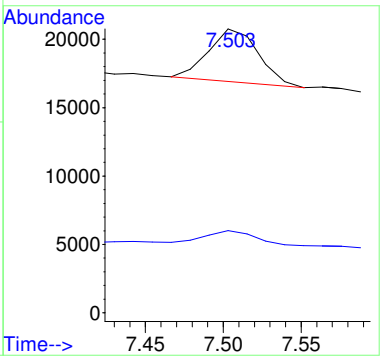


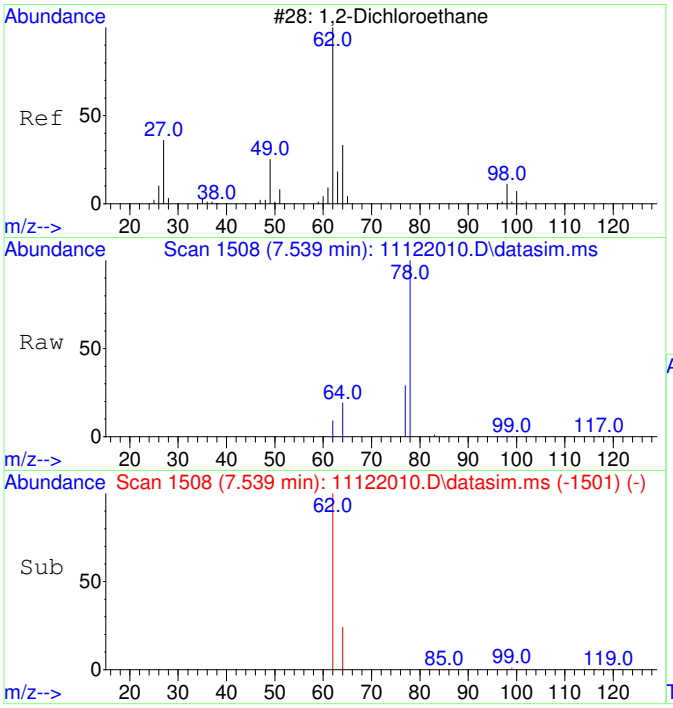


#9
Benzene
Concen: 107.02 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 78 Resp: 8370

Ion	Ratio	Lower	Upper
78	100		
77	57.9	0.0	53.2#

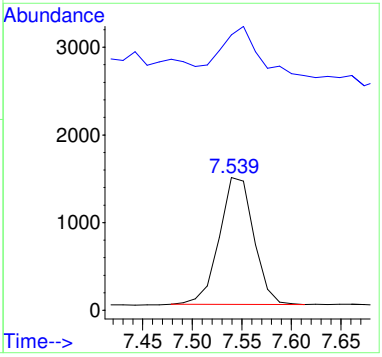


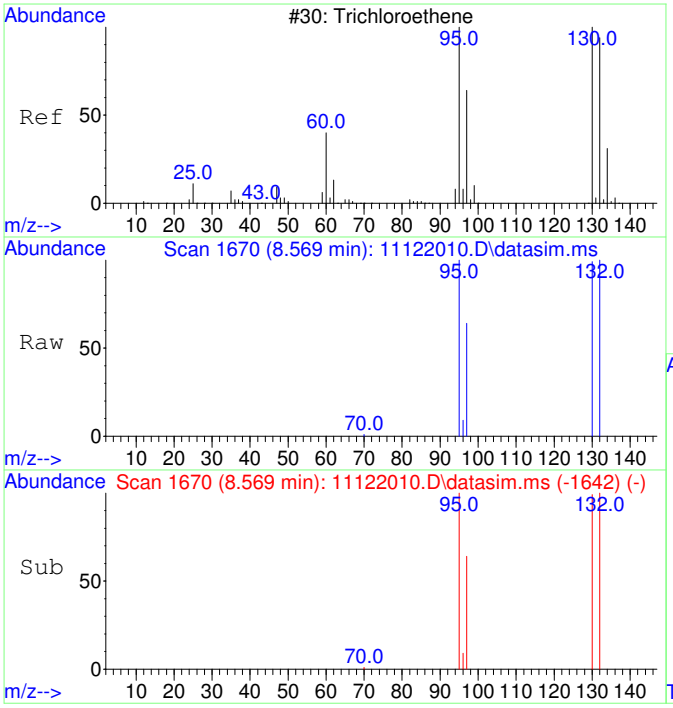


#10
1,2-Dichloroethane
Concen: 125.11 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 62 Resp: 3493

Ion	Ratio	Lower	Upper
62	100		
64	44.6	2.3	62.3

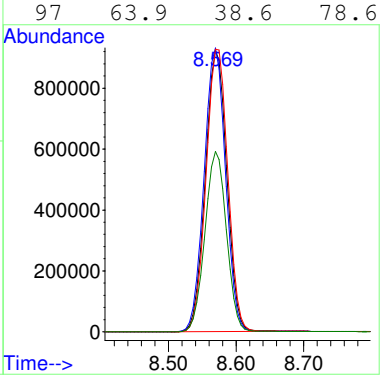


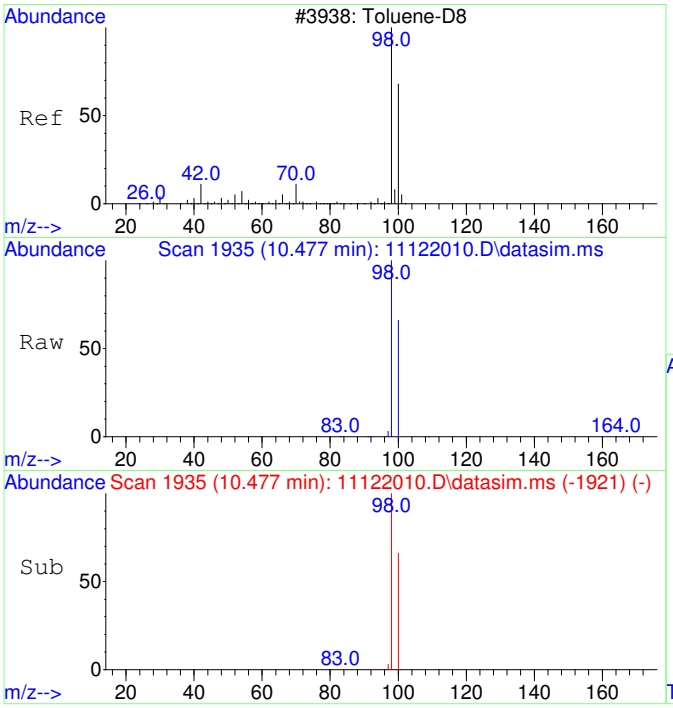


#11
Trichloroethene
Concen: 86838.82 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:130 Resp: 2044861

Ion	Ratio	Lower	Upper
130	100		
95	100.5	60.7	120.7
132	101.4	76.0	116.0
97	63.9	38.6	78.6

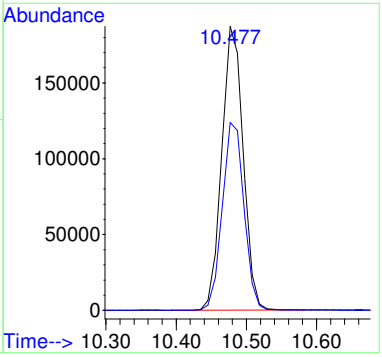


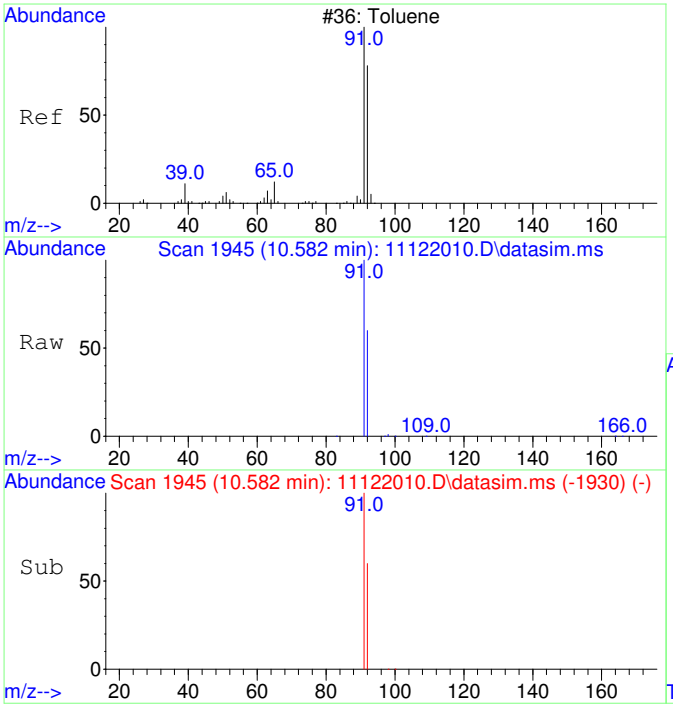


#12
Toluene-d8
Concen: 4394.49 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 98 Resp: 395990

Ion	Ratio	Lower	Upper
98	100		
100	67.0	37.1	97.1

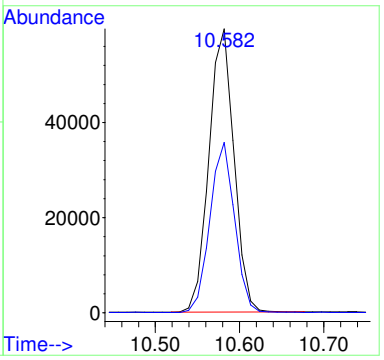


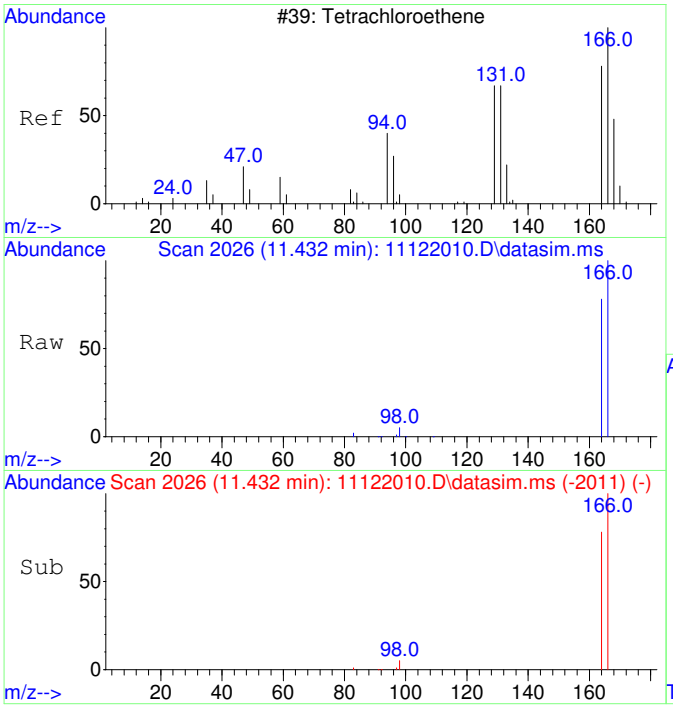


#13
Toluene
Concen: 1071.98 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 123152

Ion	Ratio	Lower	Upper
91	100		
92	58.9	29.9	89.9

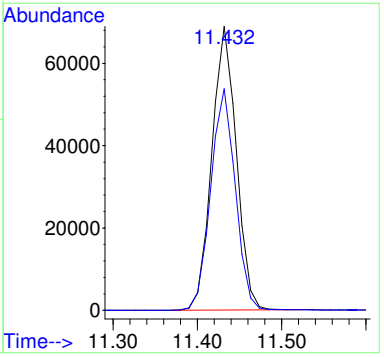


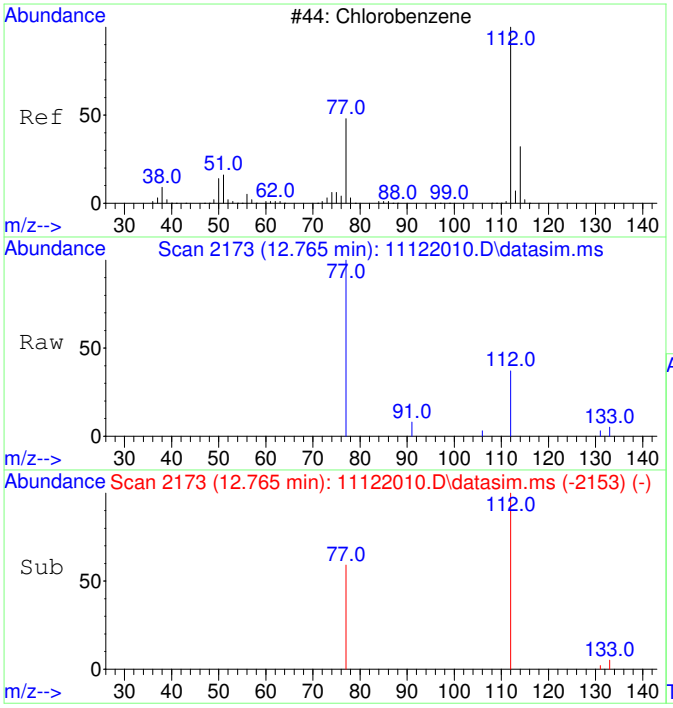


#15
Tetrachloroethene
Concen: 4183.04 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:166 Resp: 139073

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

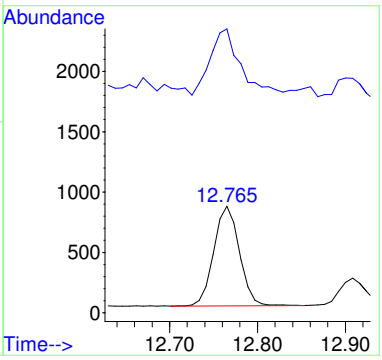


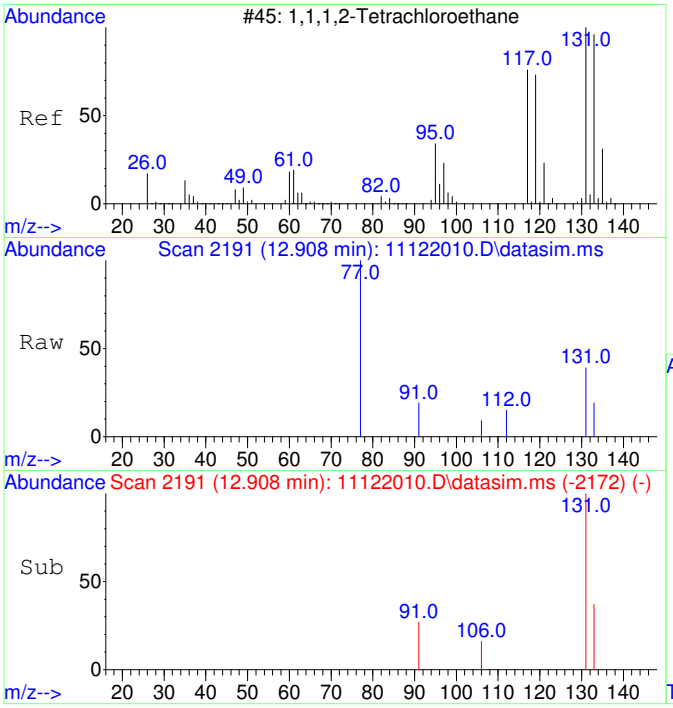


#16
Chlorobenzene
Concen: 20.29 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:112 Resp: 1669

Ion	Ratio	Lower	Upper
112	100		
77	79.1	23.6	83.6

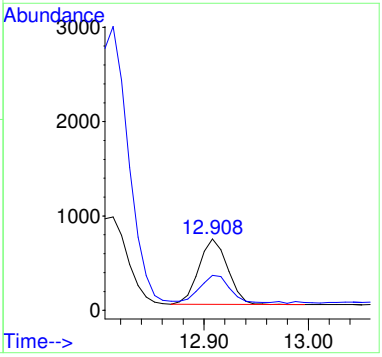


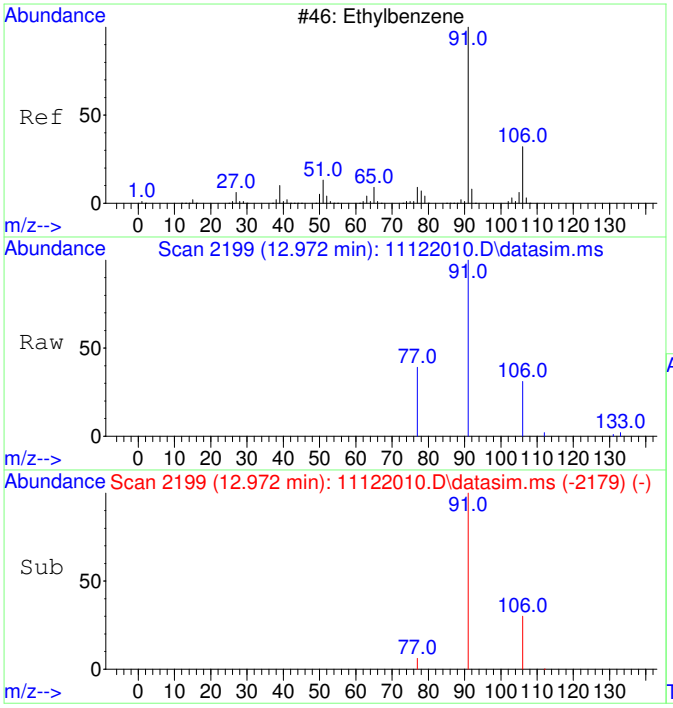


#17
1,1,1,2-Tetrachloroethane
Concen: 45.02 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:131 Resp: 1327

Ion	Ratio	Lower	Upper
131	100		
133	41.9	66.3	126.3#

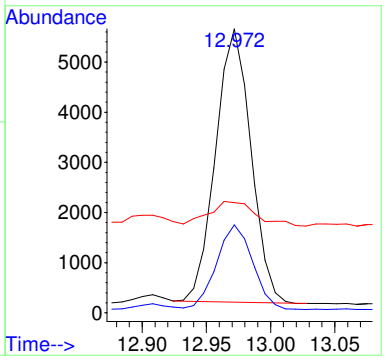


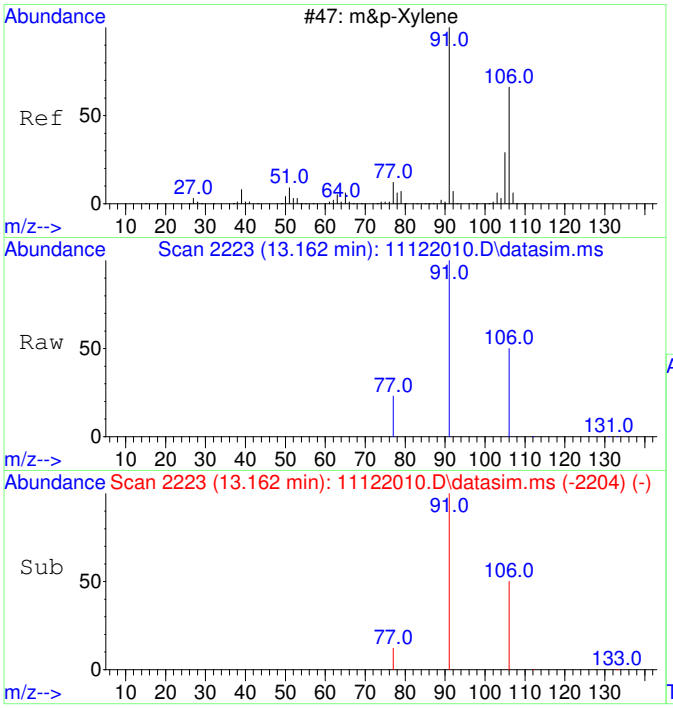


#18
Ethylbenzene
Concen: 74.34 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 10395

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	11.8	0.0	38.2

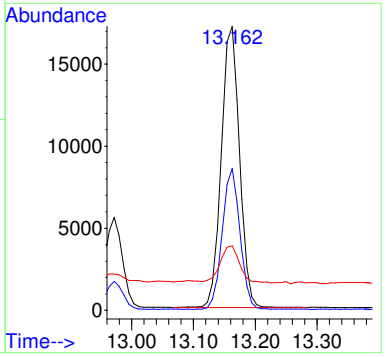


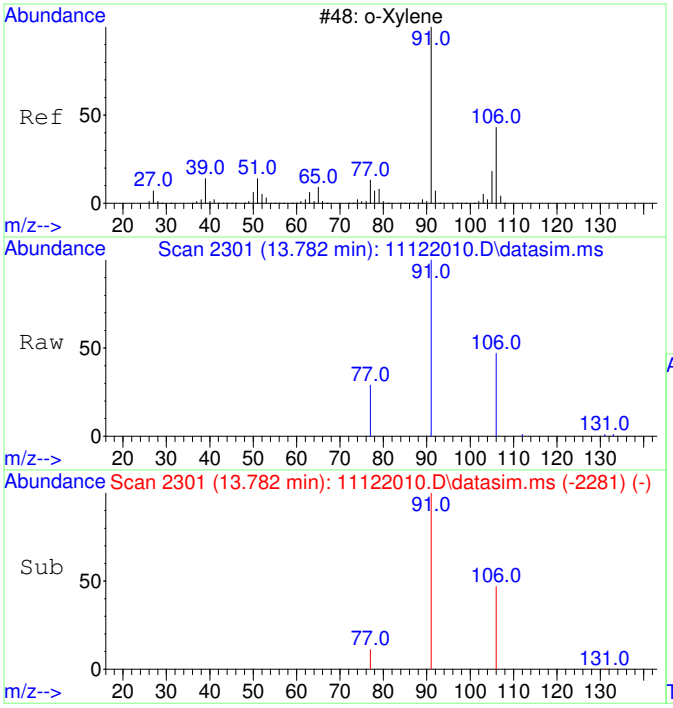


#19
m&p-Xylene
Concen: 319.70 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 34940

Ion	Ratio	Lower	Upper
91	100		
106	48.6	22.2	82.2
77	14.1	0.0	42.4

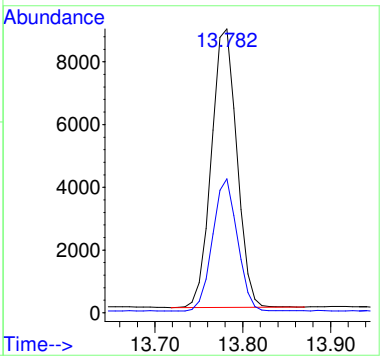


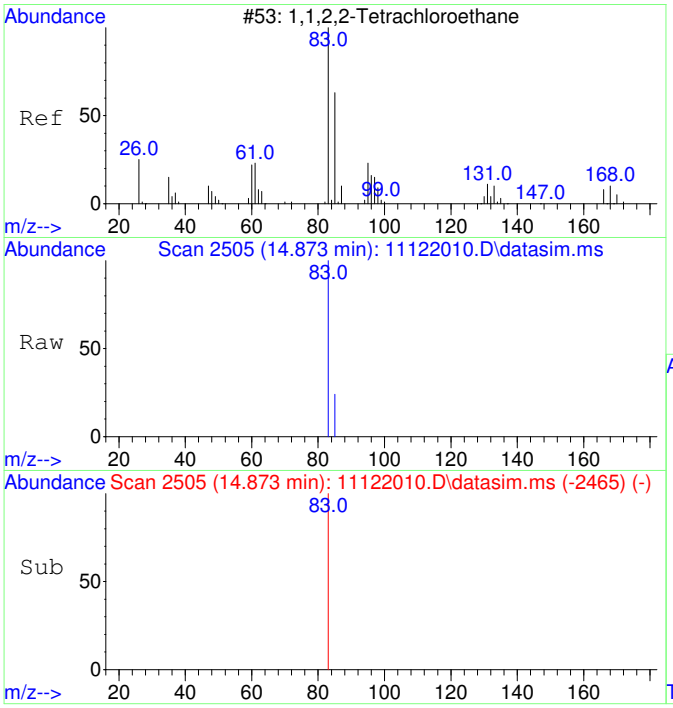


#20
o-Xylene
Concen: 153.14 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 17881

Ion	Ratio	Lower	Upper
91	100		
106	46.3	19.2	79.2

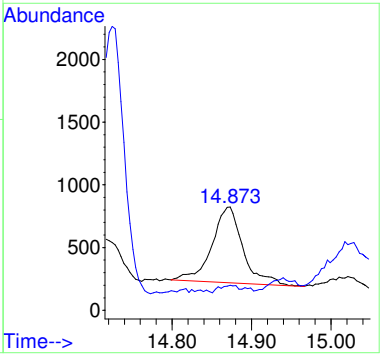


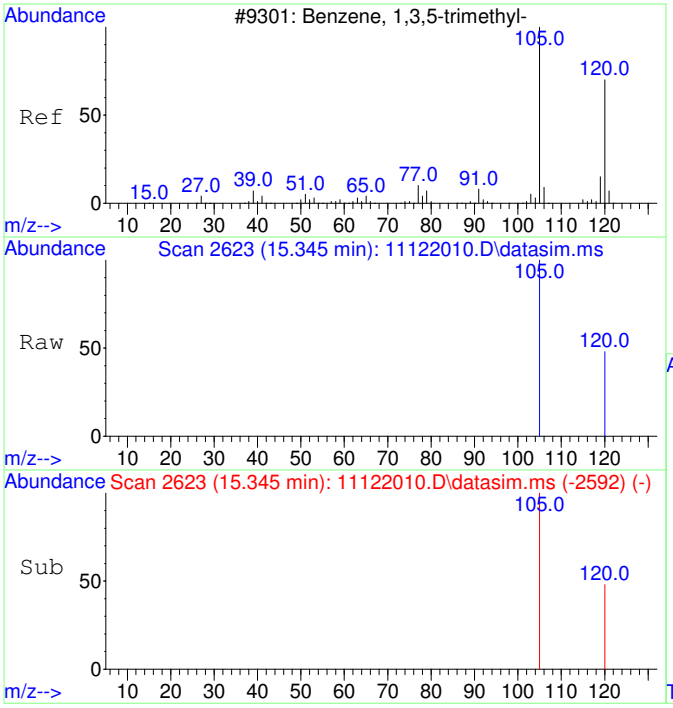


#21
1,1,2,2-Tetrachloroethane
Concen: 31.46 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 83 Resp: 1628

Ion	Ratio	Lower	Upper
83	100		
85	6.0	34.8	94.8#

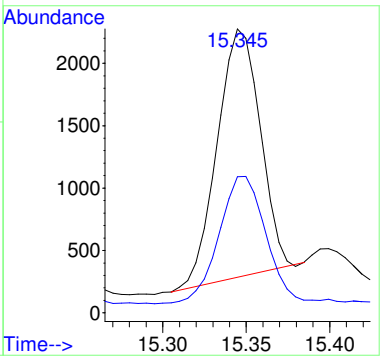


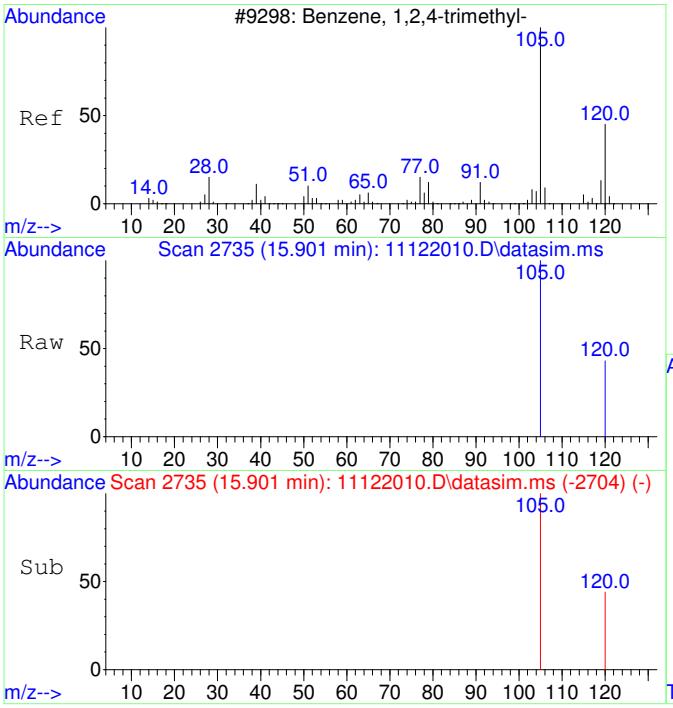


#22
1,3,5-Trimethylbenzene
Concen: 28.82 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:105 Resp: 3582

Ion	Ratio	Lower	Upper
105	100		
120	54.3	21.1	81.1

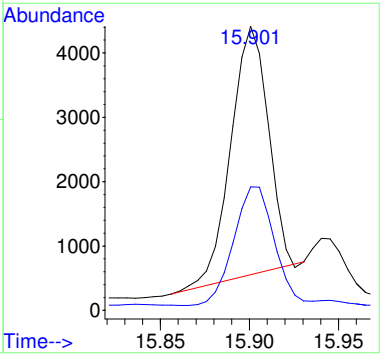


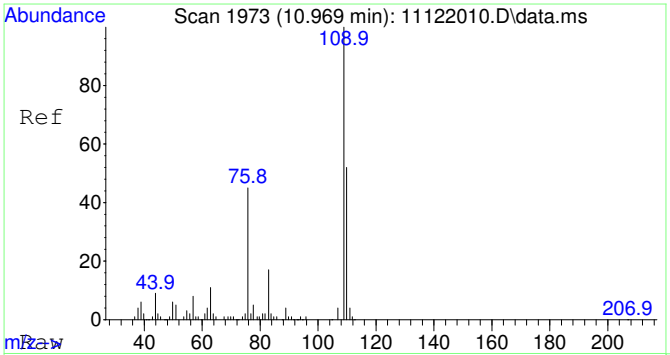


#23
1,2,4-Trimethylbenzene
Concen: 44.20 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:105 Resp: 5706

Ion	Ratio	Lower	Upper
105	100		
120	53.5	17.2	77.2

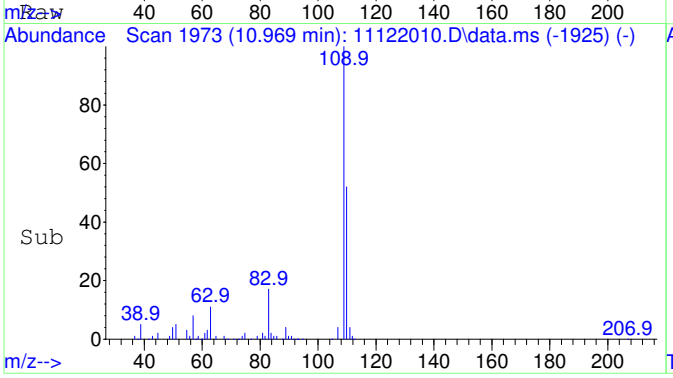


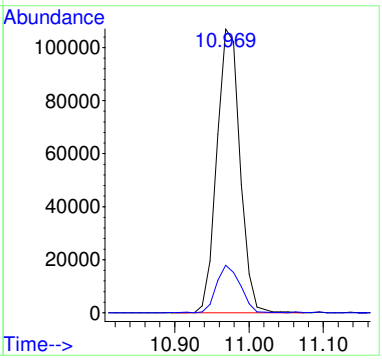


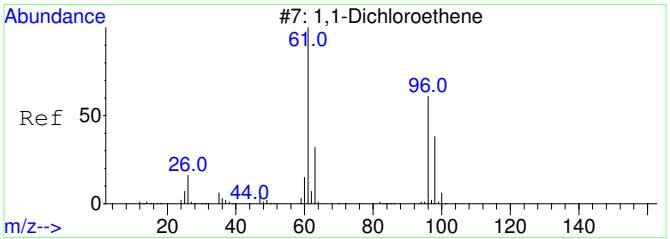
#25
2-Fluorotoluene SCAN
Concen: 5147.41 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:109 Resp: 230973

Ion	Ratio	Lower	Upper
109	100		
83	17.4	0.0	43.8



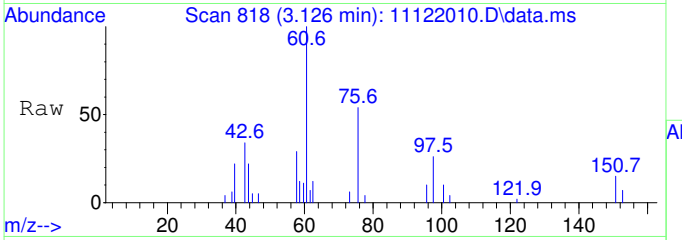


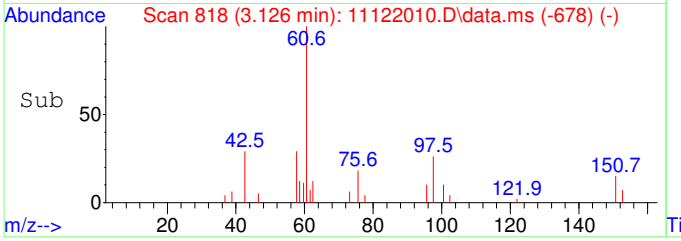


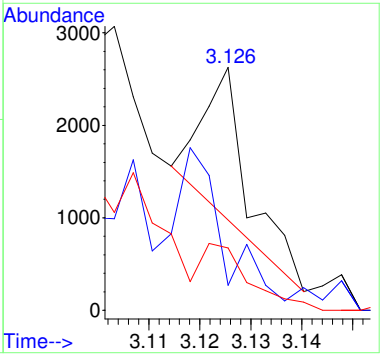
#26
1,1-Dichloroethene SCAN
Concen: 83.74 ug/L
RT: 3.126 min Scan# 818
Delta R.T. 0.019 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

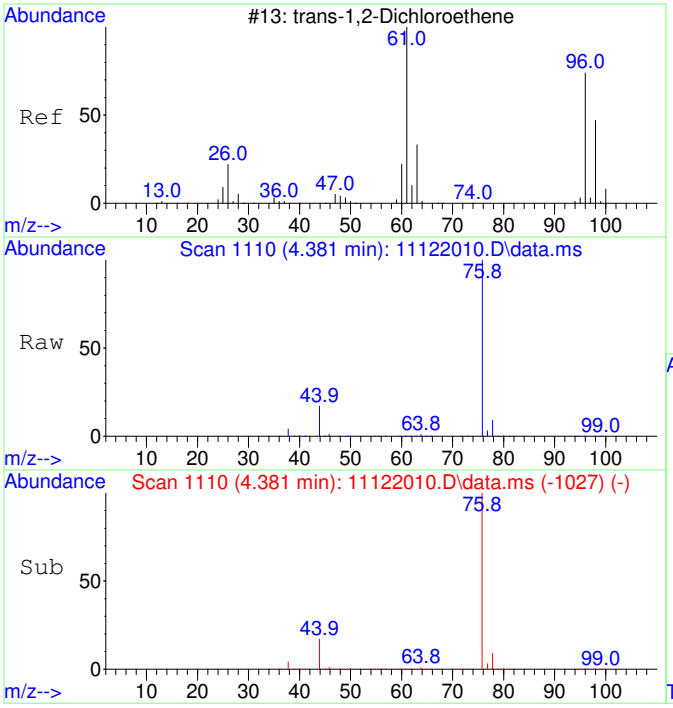
Tgt Ion: 61 Resp: 798

Ion	Ratio	Lower	Upper
61	100		
96	69.5	33.1	93.1
98	64.2	11.2	71.2





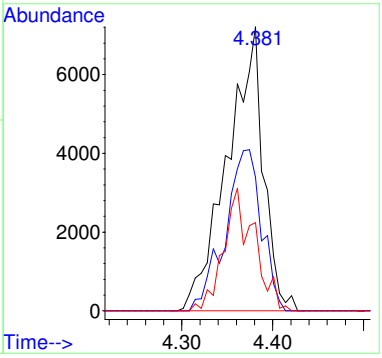


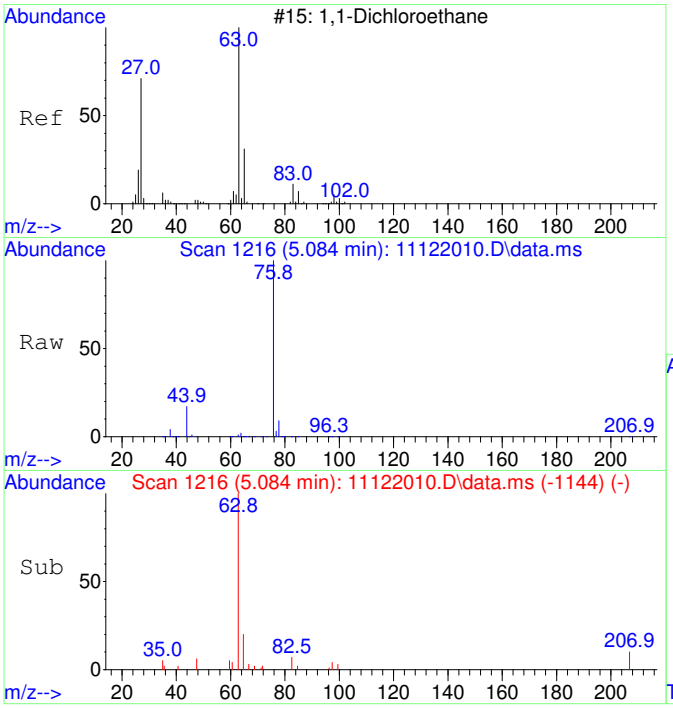


#27
trans-1,2-Dichloroethene SCAN
Concen: 1690.97 ug/L
RT: 4.381 min Scan# 1110
Delta R.T. -0.020 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 61 Resp: 19940

Ion	Ratio	Lower	Upper
61	100		
96	57.2	49.0	109.0
98	36.6	20.5	80.5

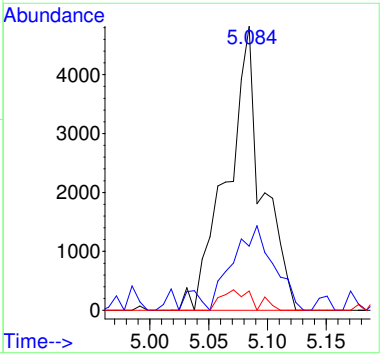


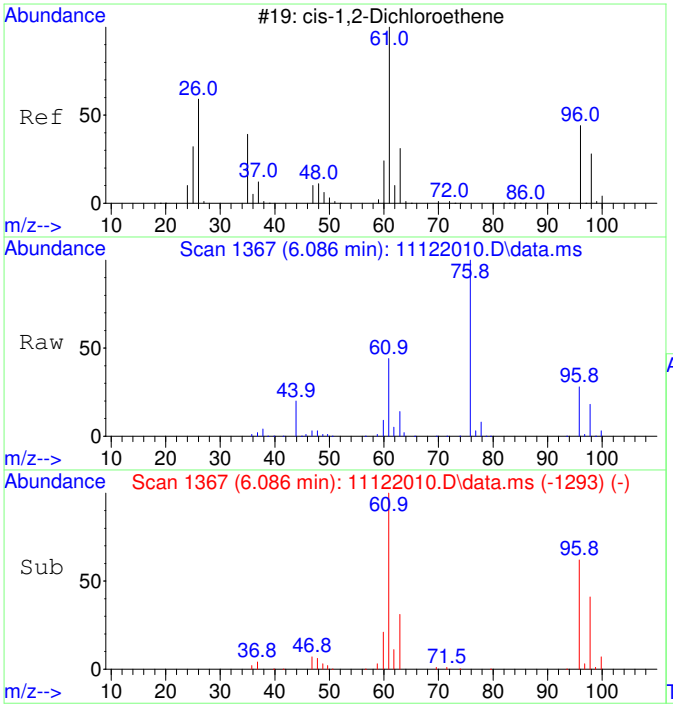


#28
1,1-Dichloroethane SCAN
Concen: 731.44 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. -0.020 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 63 Resp: 9982

Ion	Ratio	Lower	Upper
63	100		
65	34.7	1.3	61.3
83	6.8	0.0	45.9

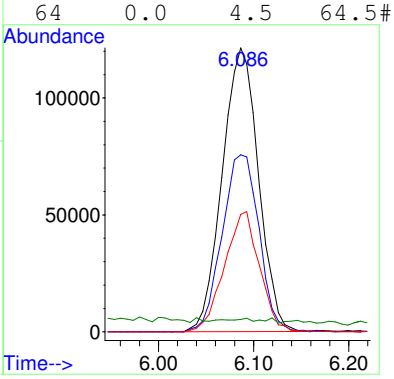


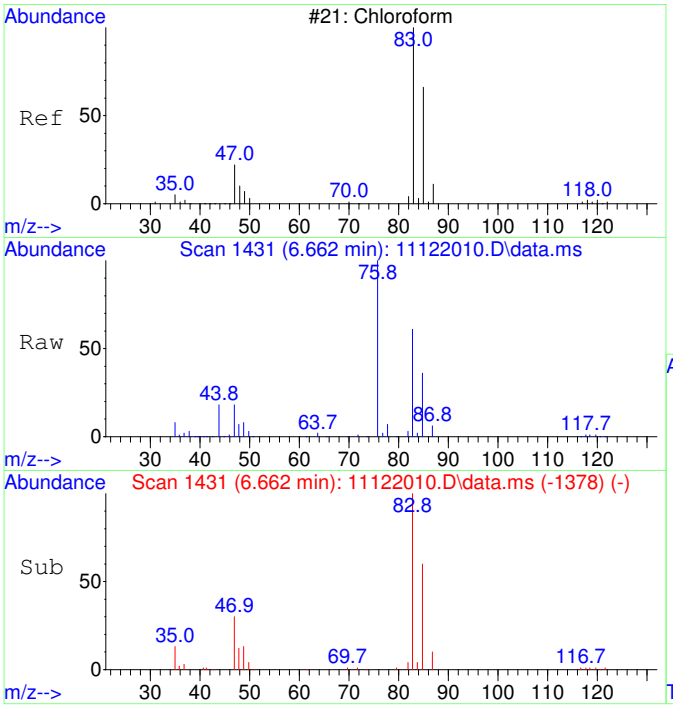


#29
cis-1,2-Dichloroethene SCAN
Concen: 22088.11 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 61 Resp: 322960

Ion	Ratio	Lower	Upper
61	100		
96	63.5	39.9	99.9
98	41.0	13.5	73.5
64	0.0	4.5	64.5#

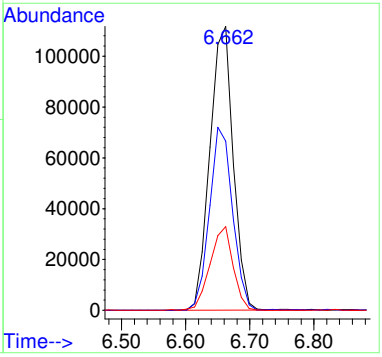


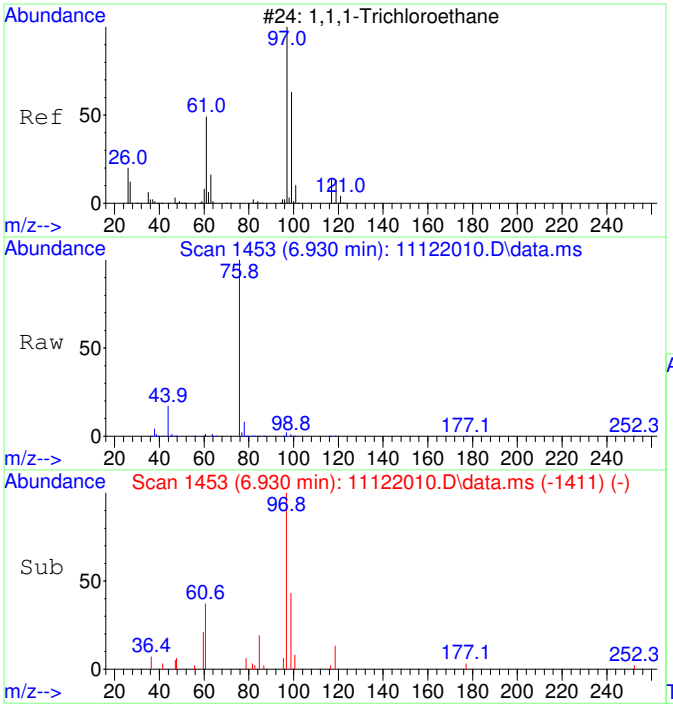


#30
Chloroform SCAN
Concen: 17810.02 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 83 Resp: 282449

Ion	Ratio	Lower	Upper
83	100		
85	63.7	34.6	94.6
47	29.2	0.0	53.4

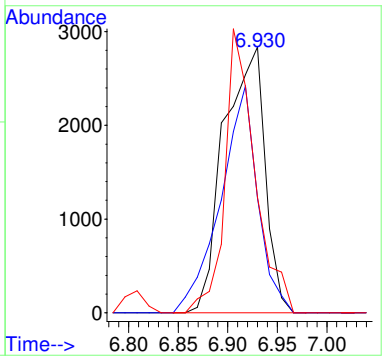


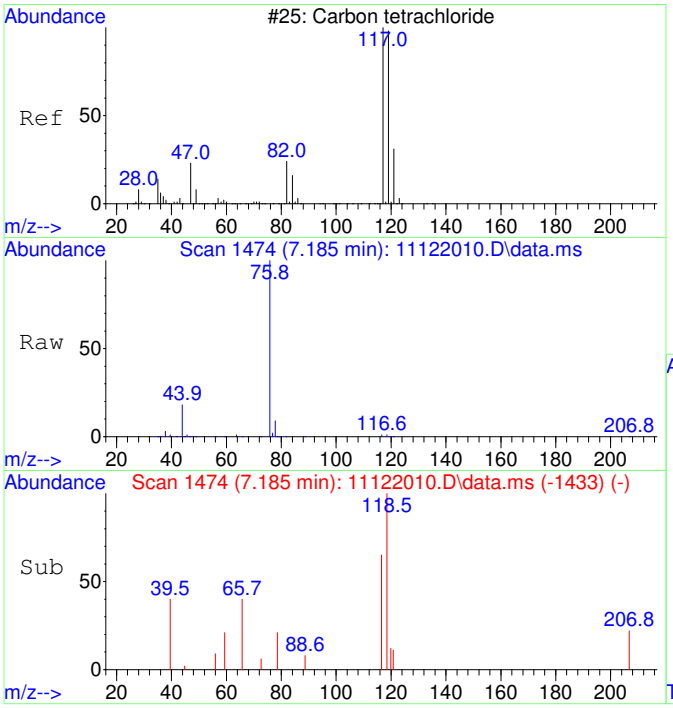


#31
1,1,1-Trichloroethane SCAN
Concen: 564.97 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. 0.012 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 97 Resp: 8165

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

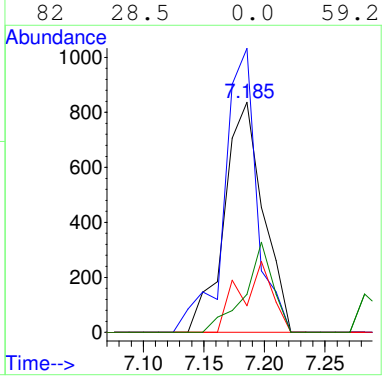


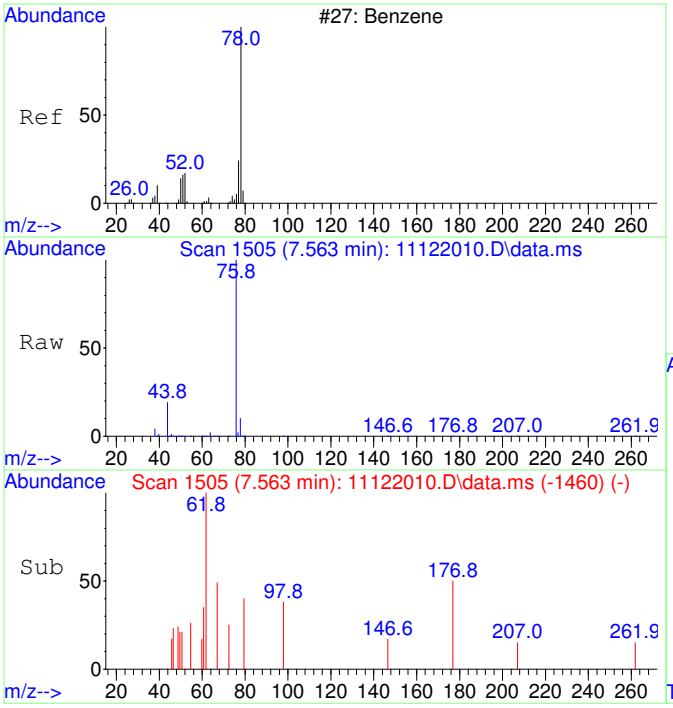


#32
Carbon tetrachloride SCAN
Concen: 125.31 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:117 Resp: 1889

Ion	Ratio	Lower	Upper
117	100		
119	102.7	75.5	135.5
121	25.3	0.0	58.8
82	28.5	0.0	59.2

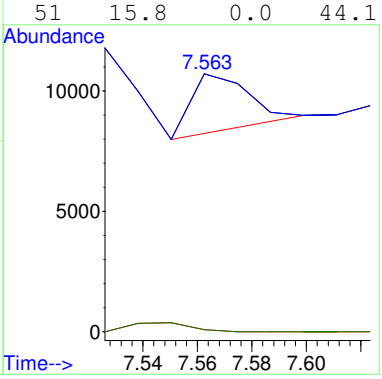


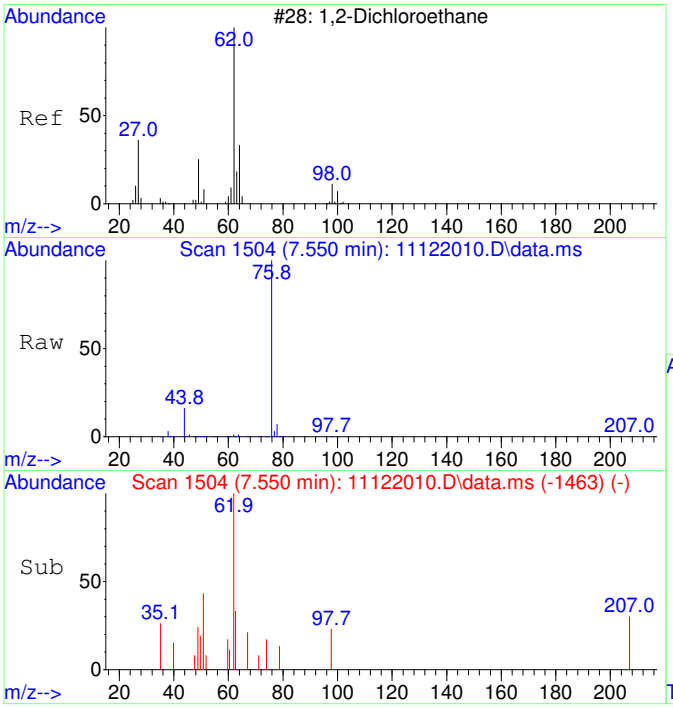


#33
Benzene SCAN
Concen: 94.59 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.049 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 78 Resp: 3764

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	15.8	0.0	47.9
51	15.8	0.0	44.1

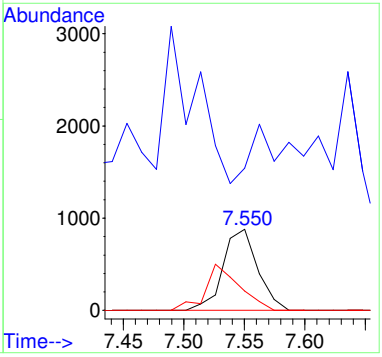


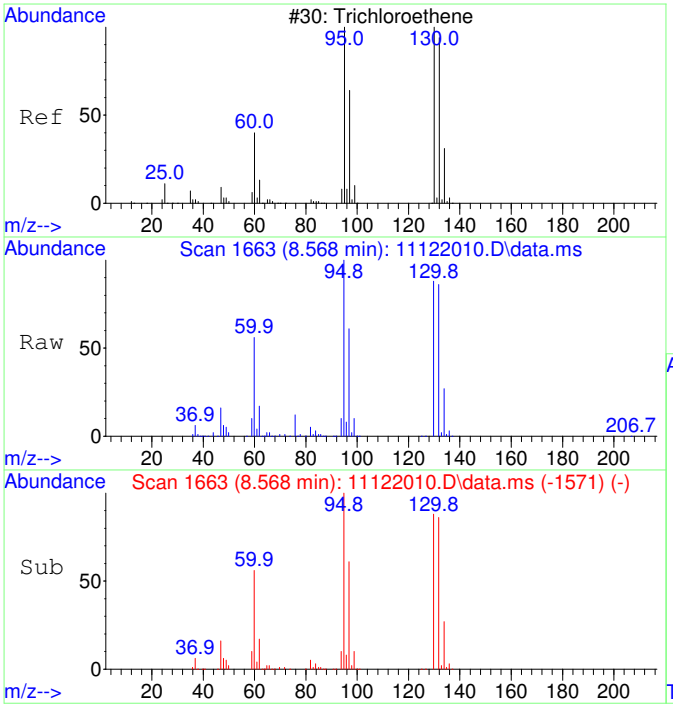


#34
1,2-Dichloroethane SCAN
Concen: 119.71 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 62 Resp: 1759

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

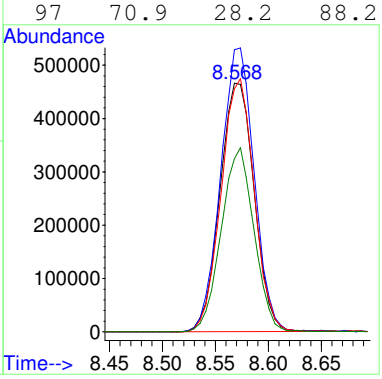


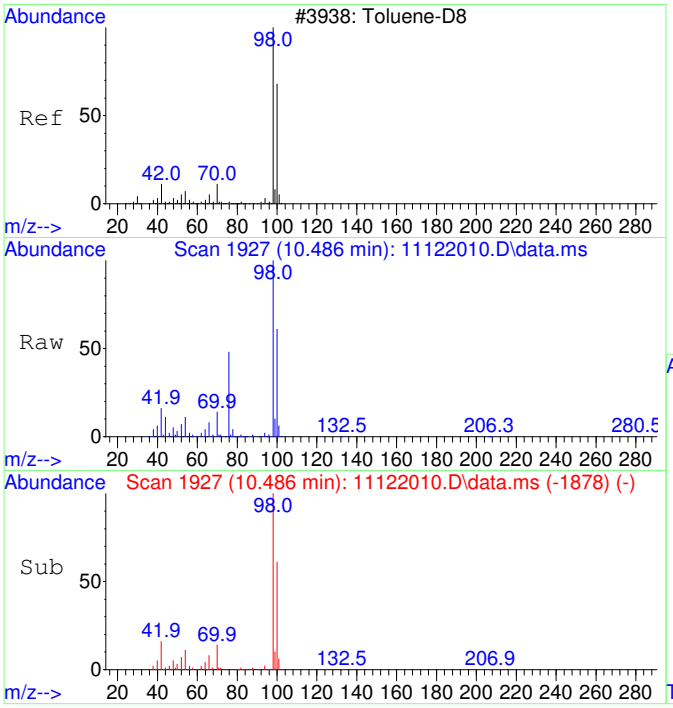


#35
Trichloroethene SCAN
Concen: 95729.60 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:130 Resp: 1046807

Ion	Ratio	Lower	Upper
130	100		
95	112.3	60.5	120.5
132	98.6	59.6	119.6
97	70.9	28.2	88.2

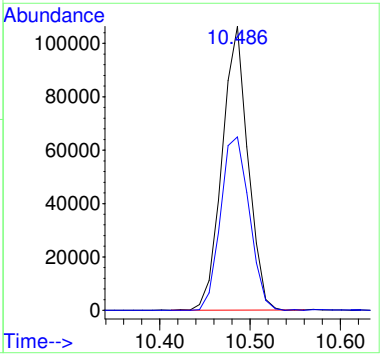


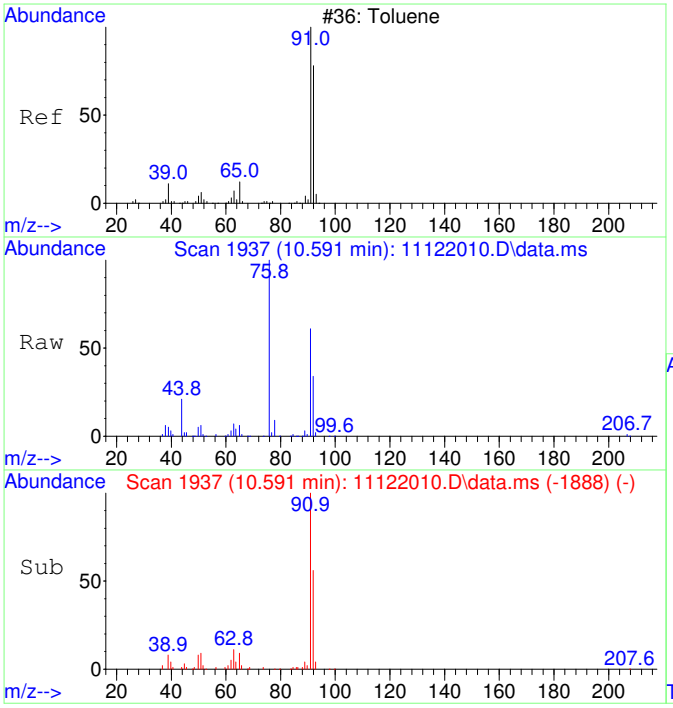


#36
Toluene-d8 SCAN
Concen: 4852.59 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 98 Resp: 212947

Ion	Ratio	Lower	Upper
98	100		
100	67.8	40.0	100.0

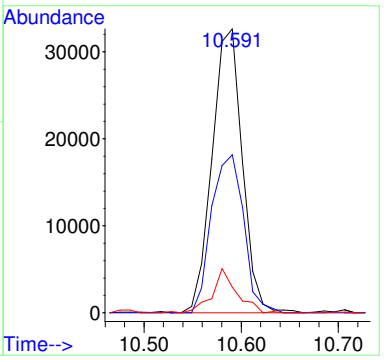


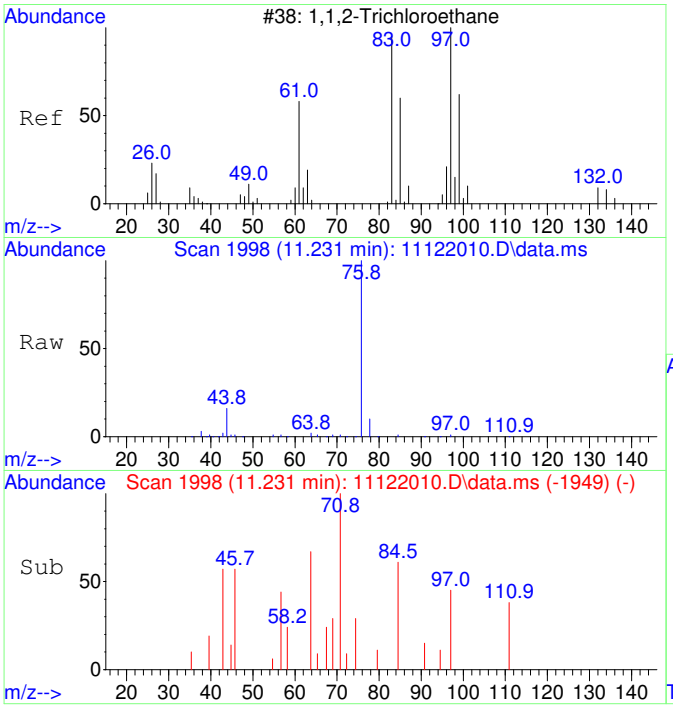


#37
Toluene SCAN
Concen: 1253.21 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 70429

Ion	Ratio	Lower	Upper
91	100		
92	59.3	28.3	88.3
65	12.6	0.0	41.0

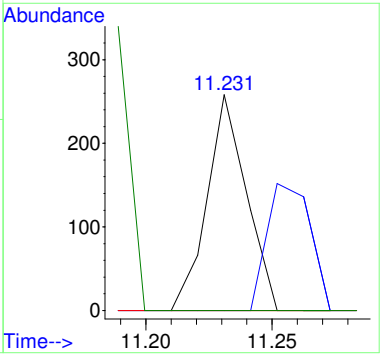


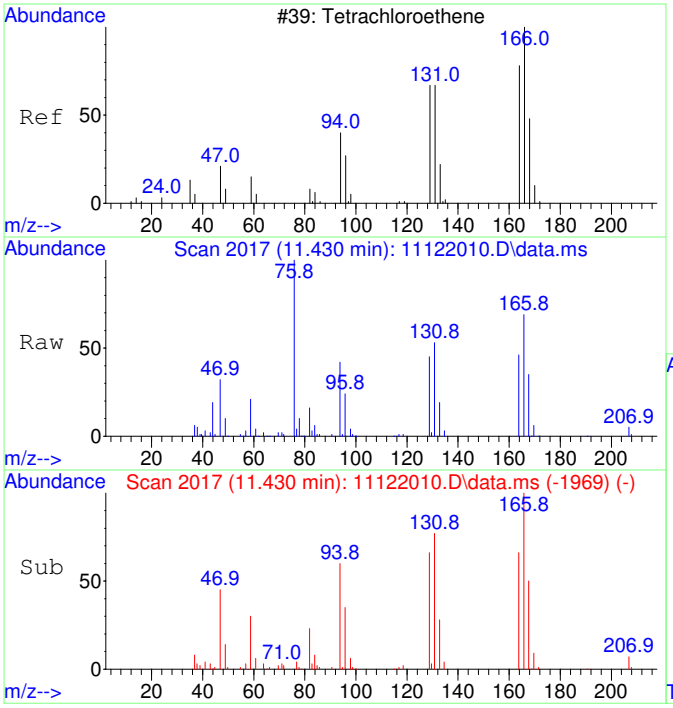


#38
1,1,2-Trichloroethane SCAN
Concen: 22.20 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. 0.010 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 97 Resp: 280

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#

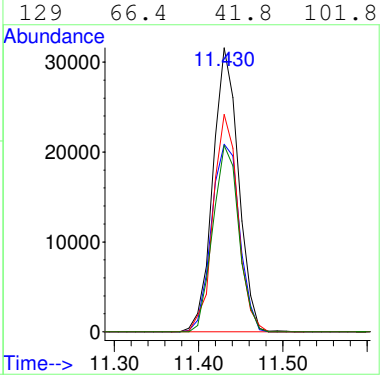


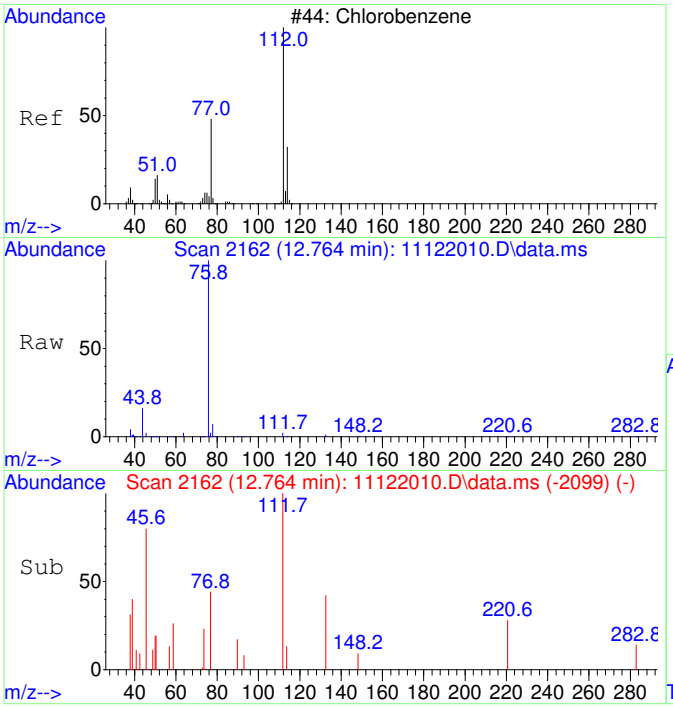


#39
Tetrachloroethene SCAN
Concen: 4951.63 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:166 Resp: 66855

Ion	Ratio	Lower	Upper
166	100		
164	72.3	50.9	110.9
131	74.2	38.7	98.7
129	66.4	41.8	101.8

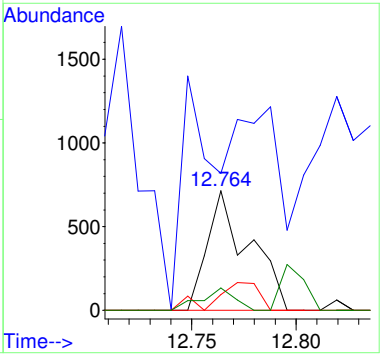


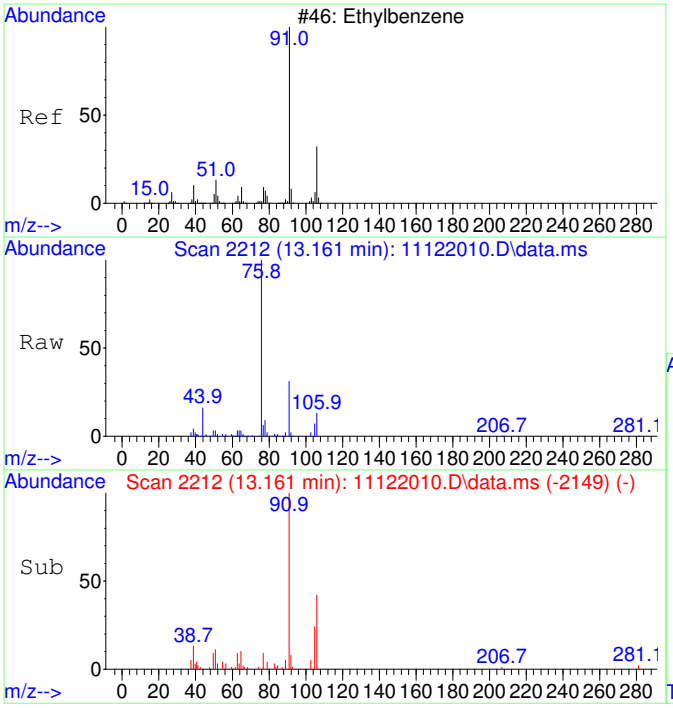


#40
Chlorobenzene SCAN
Concen: 25.88 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:112 Resp: 994

Ion	Ratio	Lower	Upper
112	100		
77	0.0	28.2	88.2#
114	24.1	2.3	62.3
51	14.8	0.0	50.1

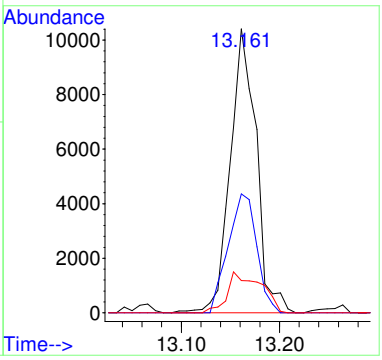


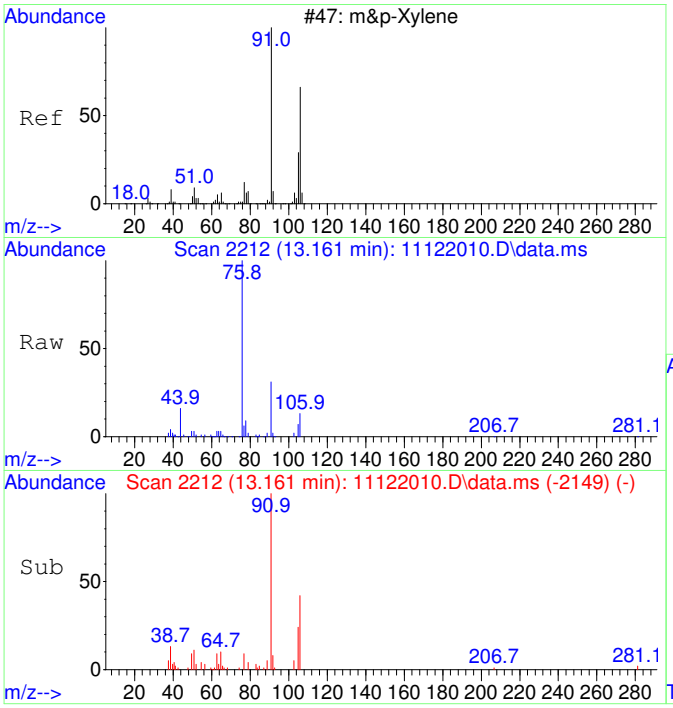


#42
Ethylbenzene SCAN
Concen: 186.92 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 19138

Ion	Ratio	Lower	Upper
91	100		
106	46.0	23.1	83.1
51	18.5	0.0	40.1

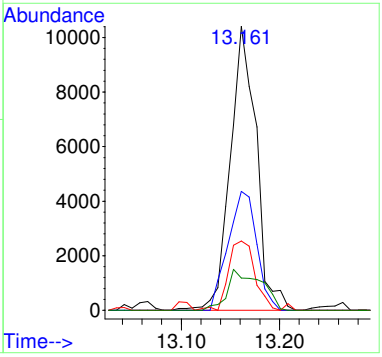


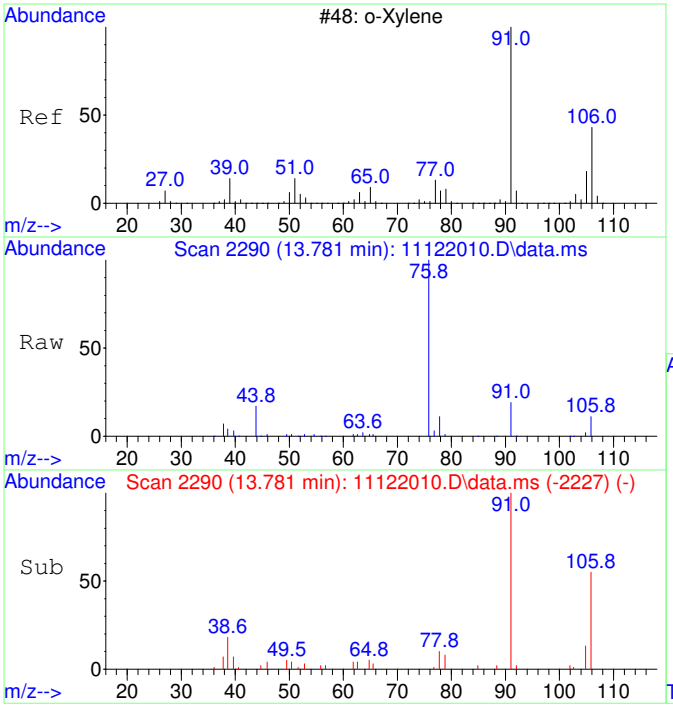


#43
m&p-Xylene SCAN
Concen: 186.92 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 19138

Ion	Ratio	Lower	Upper
91	100		
106	46.0	23.1	83.1
105	23.7	0.0	54.7
51	18.5	0.0	40.1

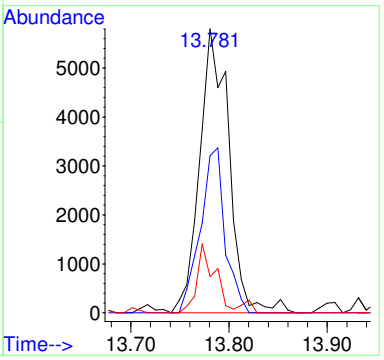


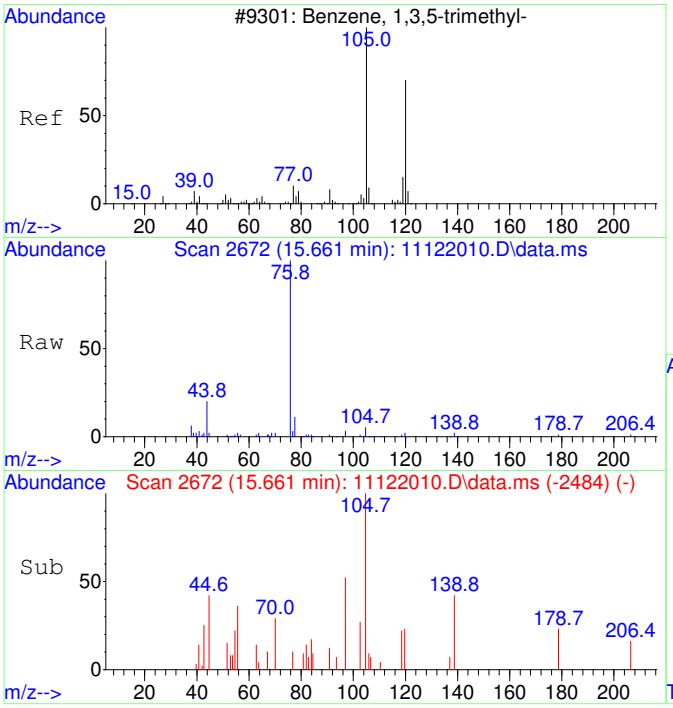


#44
o-Xylene SCAN
Concen: 219.71 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 12041

Ion	Ratio	Lower	Upper
91	100		
106	48.8	18.0	78.0
105	13.8	0.0	56.6

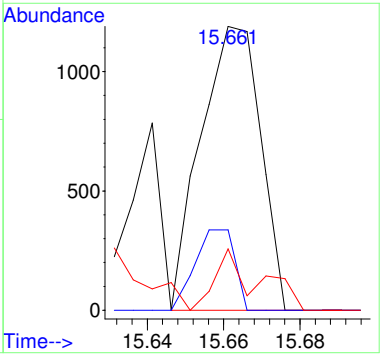


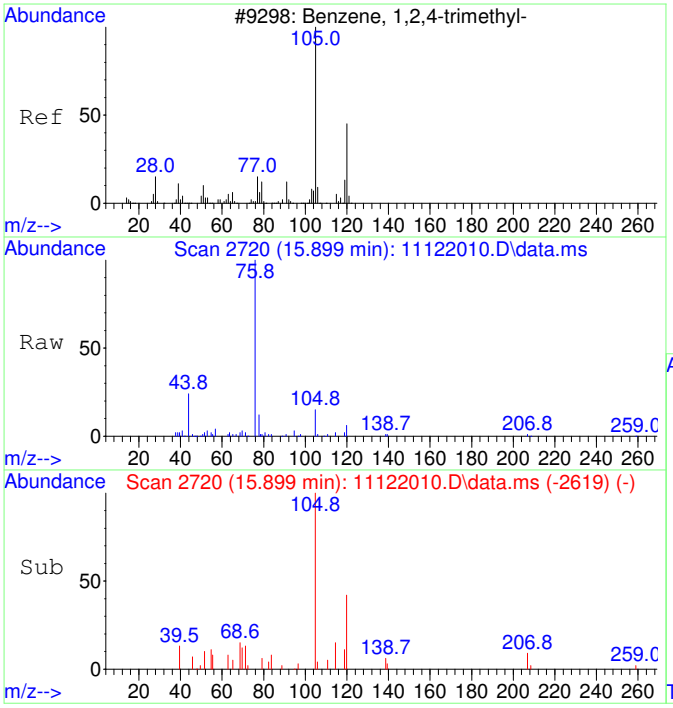


#46
1,3,5-Trimethylbenzene SCAN
Concen: 22.44 ug/L
RT: 15.661 min Scan# 2672
Delta R.T. 0.318 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:105 Resp: 1296

Ion	Ratio	Lower	Upper
105	100		
120	18.8	18.3	78.3
119	15.4	0.0	43.1

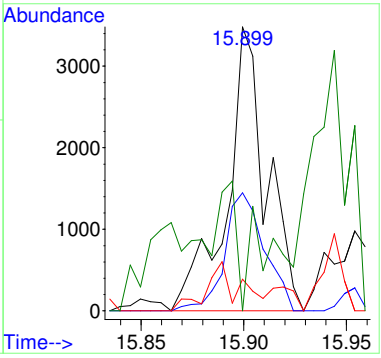




#47
1,2,4-Trimethylbenzene SCAN
Concen: 78.31 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:105 Resp: 4628

Ion	Ratio	Lower	Upper
105	100		
120	42.0	16.9	76.9
119	10.1	0.0	41.9
77	13.1	0.0	42.3



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122010.D
Acq On : 12 Nov 2020 12:01
InstName : AG5975C
Operator : TD
Sample : 2011015-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

M.I. Performed By:
TD at 1:51 pm, Nov 12, 2020

M.I. Approved By:
ZR at 2:17 pm, Nov 23, 2020

Quant Time: Nov 12 12:20:22 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

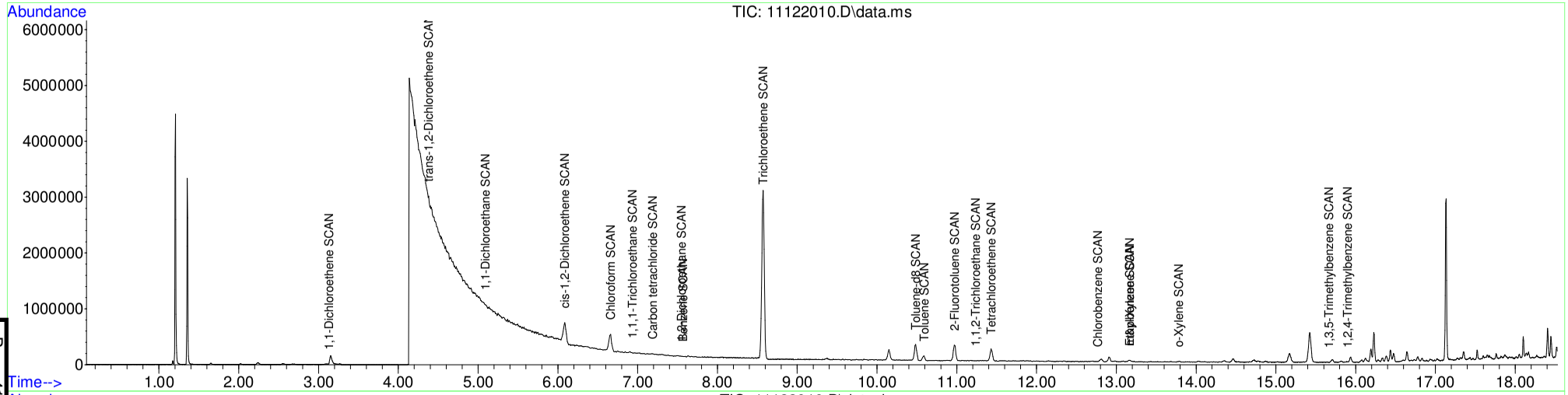
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	460310	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	395990	4394.49 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.89%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	17239m	937.87 ug/L	
3] trans-1,2-Dichloroethene	4.369	61	30744	1447.68 ug/L	99
4] 1,1-Dichloroethane	5.079	63	16234	614.09 ug/L	97
5] cis-1,2-Dichloroethene	6.081	61	540382	19365.28 ug/L	99
6] Chloroform	6.652	83	477527	16719.24 ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	18041	581.63 ug/L	99
8] Carbon tetrachloride	7.187	117	2851	97.66 ug/L	98
9] Benzene	7.503	78	8370	107.02 ug/L #	29
10] 1,2-Dichloroethane	7.539	62	3493	125.11 ug/L	78
11] Trichloroethene	8.569	130	2044861	86838.82 ug/L OC	92
13] Toluene	10.582	91	123152	1071.98 ug/L	99
15] Tetrachloroethene	11.432	166	139073	4183.04 ug/L	100
16] Chlorobenzene	12.765	112	1669	20.29 ug/L	64
17] 1,1,1,2-Tetrachloroethane	12.908	131	1327	45.02 ug/L #	44
18] Ethylbenzene	12.972	91	10395	74.34 ug/L	96
19] m&p-Xylene	13.162	91	34940	319.70 ug/L	95
20] o-Xylene	13.782	91	17881	153.14 ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.873	83	1628	31.46 ug/L #	25
22] 1,3,5-Trimethylbenzene	15.345	105	3582	28.82 ug/L	95
23] 1,2,4-Trimethylbenzene	15.901	105	5706	44.20 ug/L	91
25) 2-Fluorotoluene SCAN	10.969	109	230973	5147.41 ug/L	91
26) 1,1-Dichloroethene SCAN	3.126	61	798	83.74 ug/L	81
27) trans-1,2-Dichloroethe...	4.381	61	19940	1690.97 ug/L	77
28) 1,1-Dichloroethane SCAN	5.084	63	9982	731.44 ug/L	89
29) cis-1,2-Dichloroethene...	6.086	61	322960	22088.11 ug/L #	81
30) Chloroform SCAN	6.662	83	282449	17810.02 ug/L	96
31) 1,1,1-Trichloroethane ...	6.930	97	8165	564.97 ug/L #	19
32) Carbon tetrachloride SCAN	7.185	117	1889	125.31 ug/L	97
33) Benzene SCAN	7.563	78	3764	94.59 ug/L	99
34) 1,2-Dichloroethane SCAN	7.550	62	1759	119.71 ug/L #	40
35) Trichloroethene SCAN	8.568	130	1046807	95729.60 ug/L	83
36) Toluene-d8 SCAN	10.486	98	212947	4852.59 ug/L	97
37) Toluene SCAN	10.591	91	70429	1253.21 ug/L	98
38) 1,1,2-Trichloroethane ...	11.231	97	280	22.20 ug/L #	13
39) Tetrachloroethene SCAN	11.430	166	66855	4951.63 ug/L	92
40) Chlorobenzene SCAN	12.764	112	994	25.88 ug/L #	53
42) Ethylbenzene SCAN	13.161	91	19138	186.92 ug/L	88
43) m&p-Xylene SCAN	13.161	91	19138	186.92 ug/L	91
44) o-Xylene SCAN	13.781	91	12041	219.71 ug/L	90
46) 1,3,5-Trimethylbenzene...	15.661	105	1296	22.44 ug/L	65
47) 1,2,4-Trimethylbenzene...	15.899	105	4628	78.31 ug/L	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122010.D
Acq On : 12 Nov 2020 12:01
InstName : AG5975C
Operator : TD
Sample : 2011015-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 12 12:20:22 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



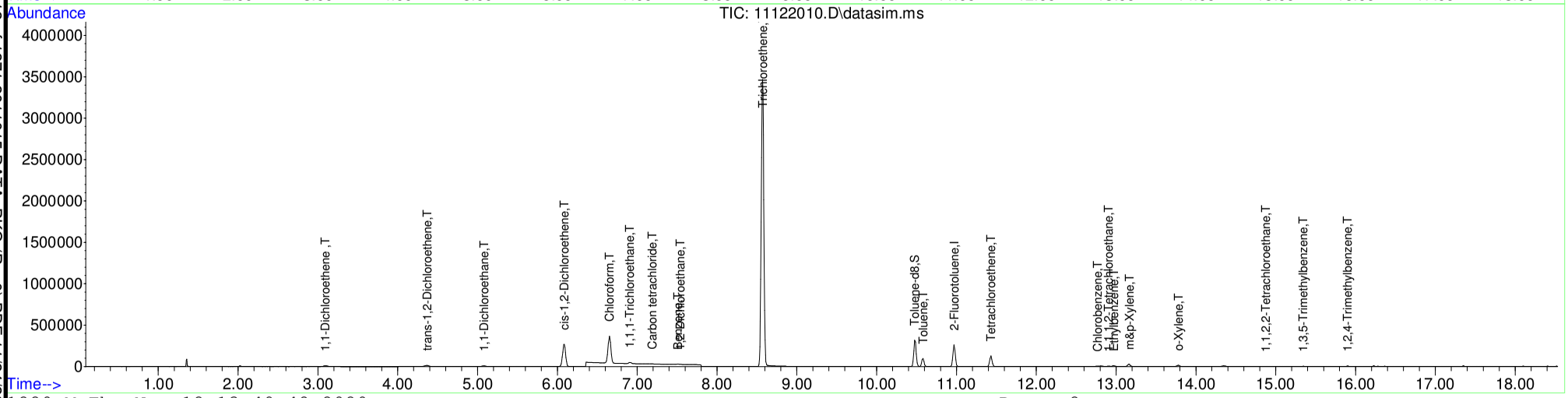
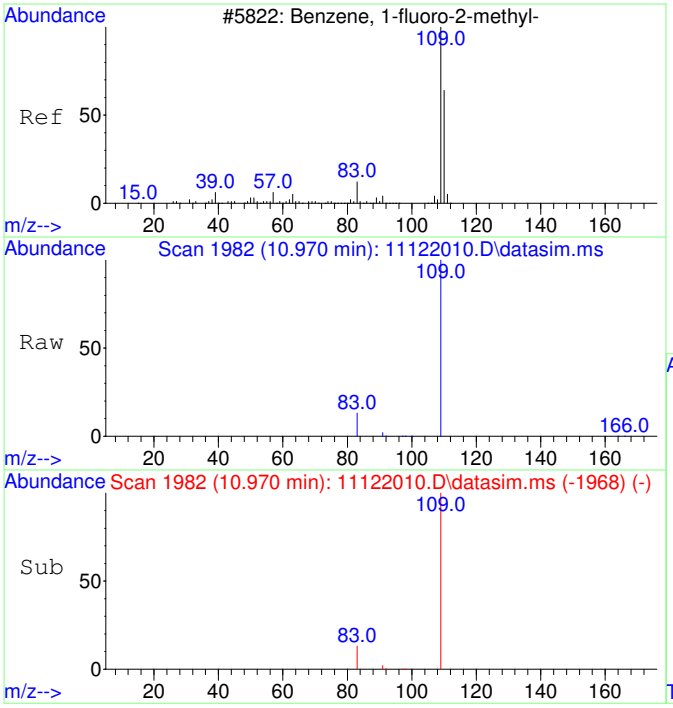


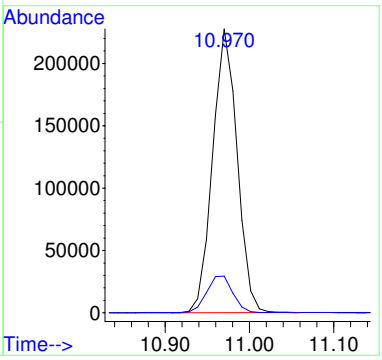
Table of Contents

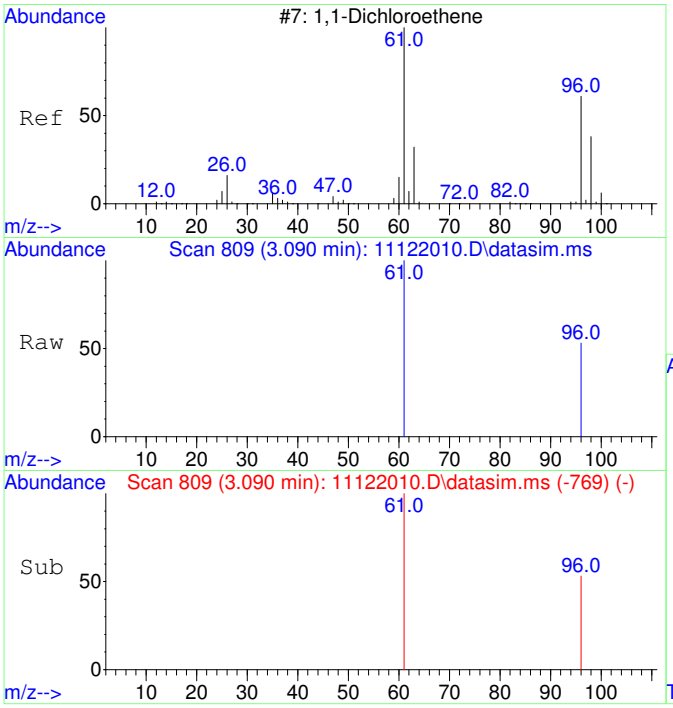


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:109 Resp: 460310

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

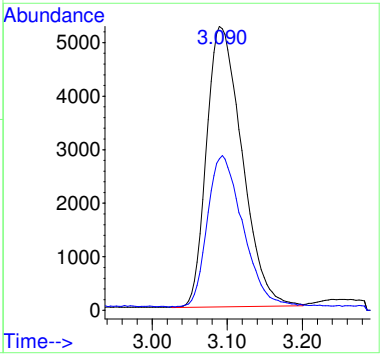


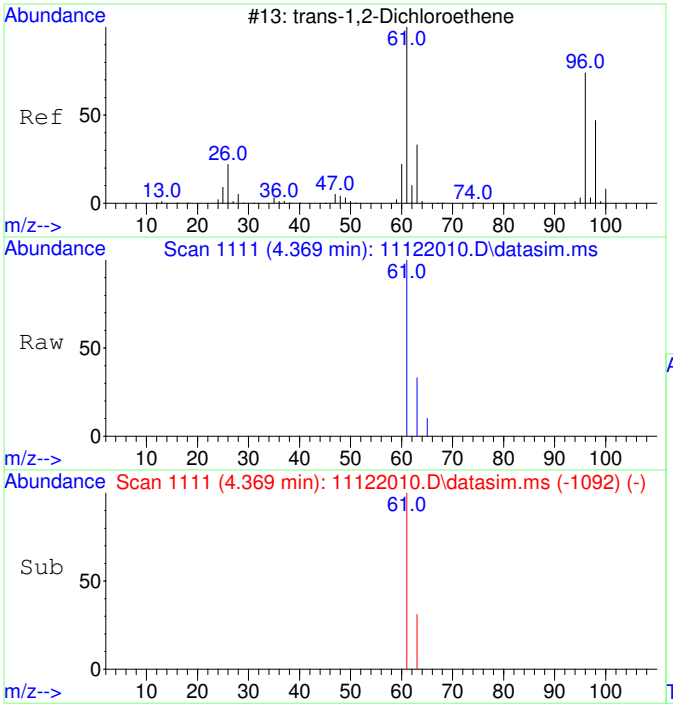


#2
1,1-Dichloroethene
Concen: 937.87 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 61 Resp: 17239

Ion	Ratio	Lower	Upper
61	100		
96	53.2	37.2	97.2

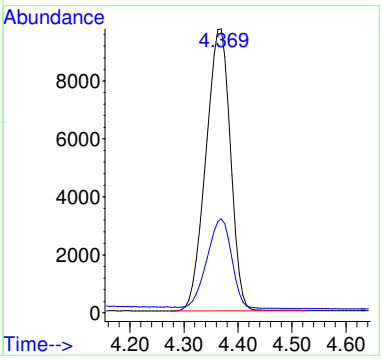


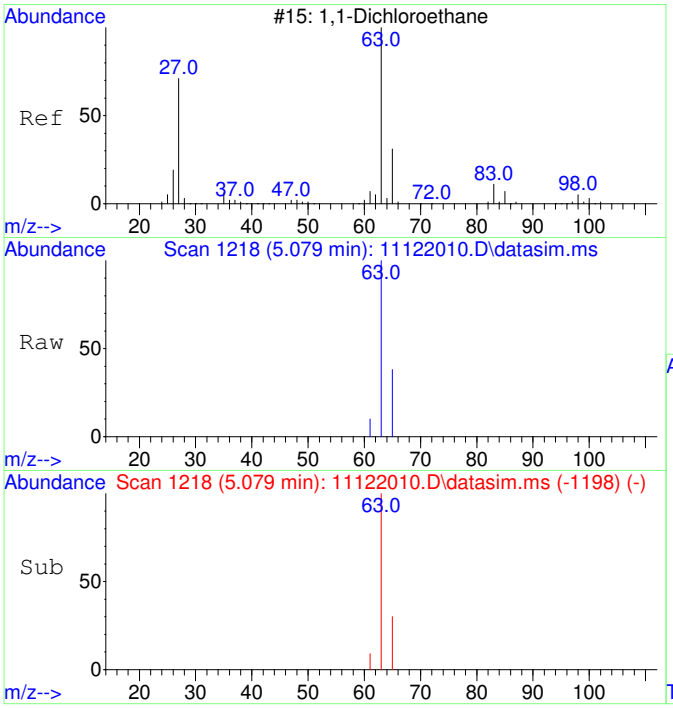


#3
trans-1,2-Dichloroethene
Concen: 1447.68 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. -0.027 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 61 Resp: 30744

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.4	62.4

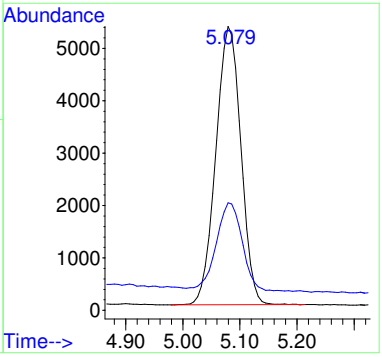


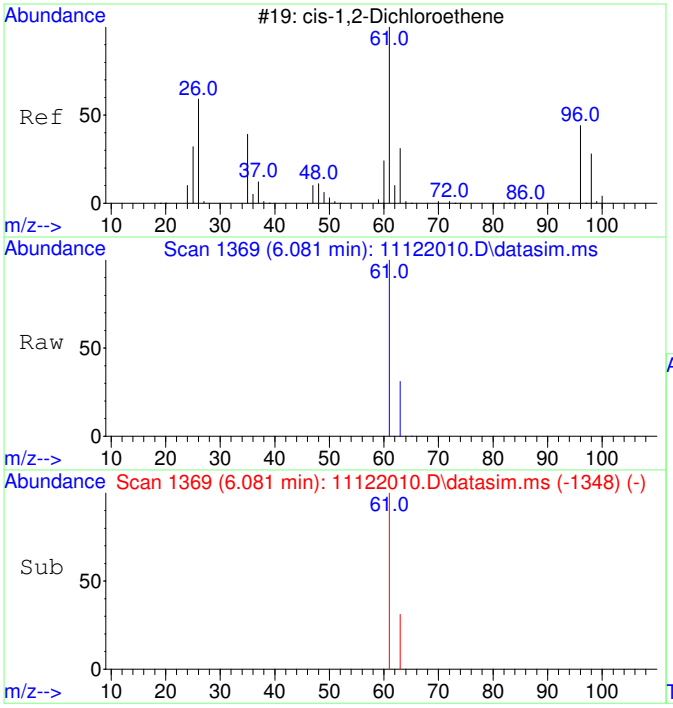


#4
1,1-Dichloroethane
Concen: 614.09 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 63 Resp: 16234

Ion	Ratio	Lower	Upper
63	100		
65	33.5	1.8	61.8

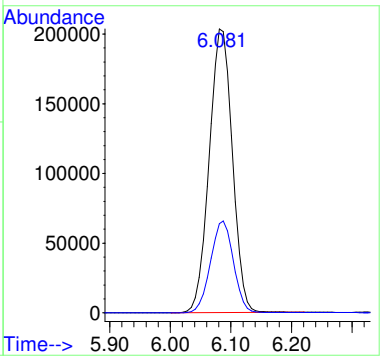


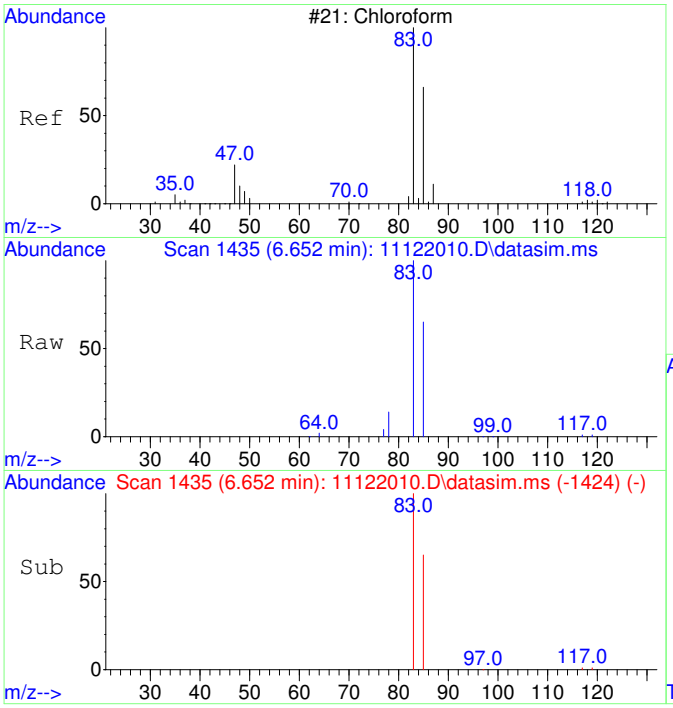


#5
cis-1,2-Dichloroethene
Concen: 19365.28 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 61 Resp: 540382

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

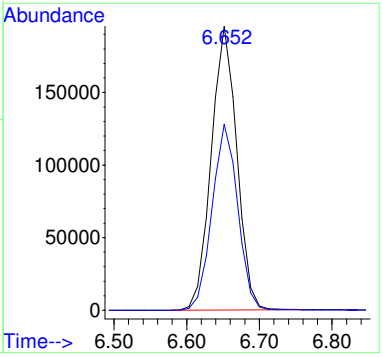


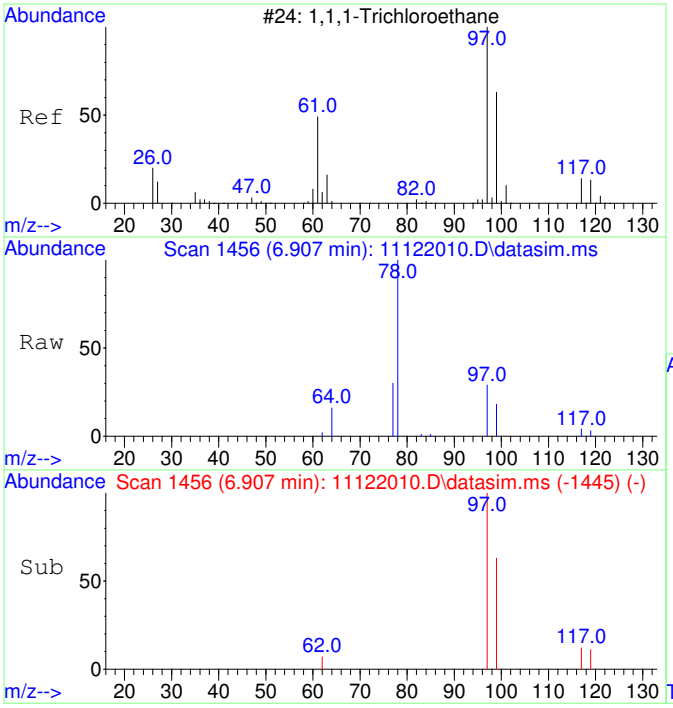


#6
Chloroform
Concen: 16719.24 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 83 Resp: 477527

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.1	95.1

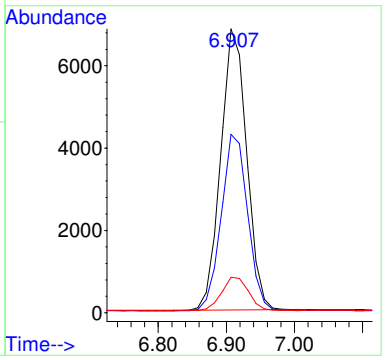


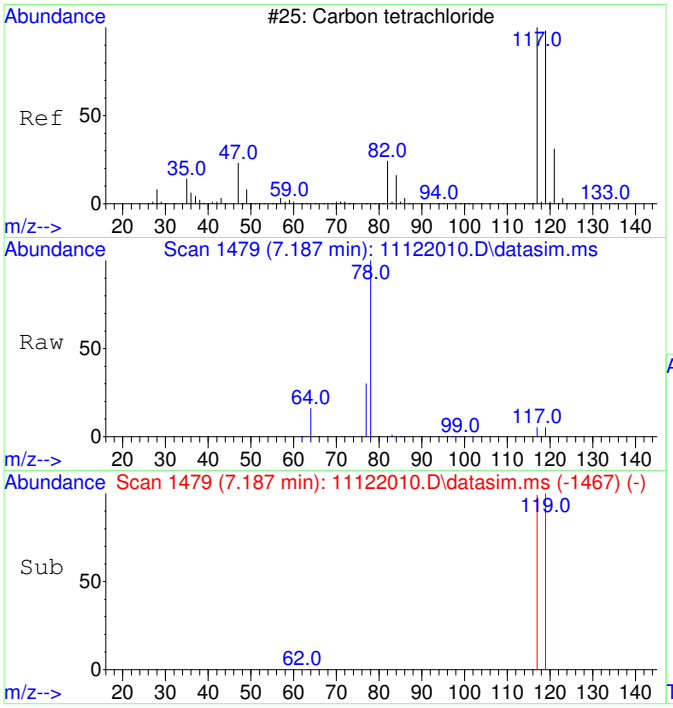


#7
1,1,1-Trichloroethane
Concen: 581.63 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 97 Resp: 18041

Ion	Ratio	Lower	Upper
97	100		
99	63.6	34.6	94.6
117	12.2	0.0	43.2

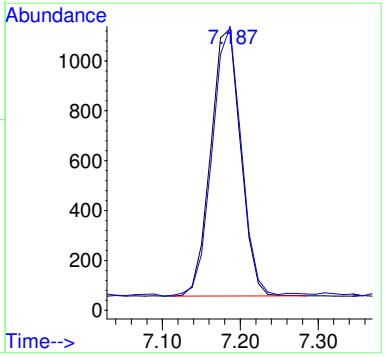


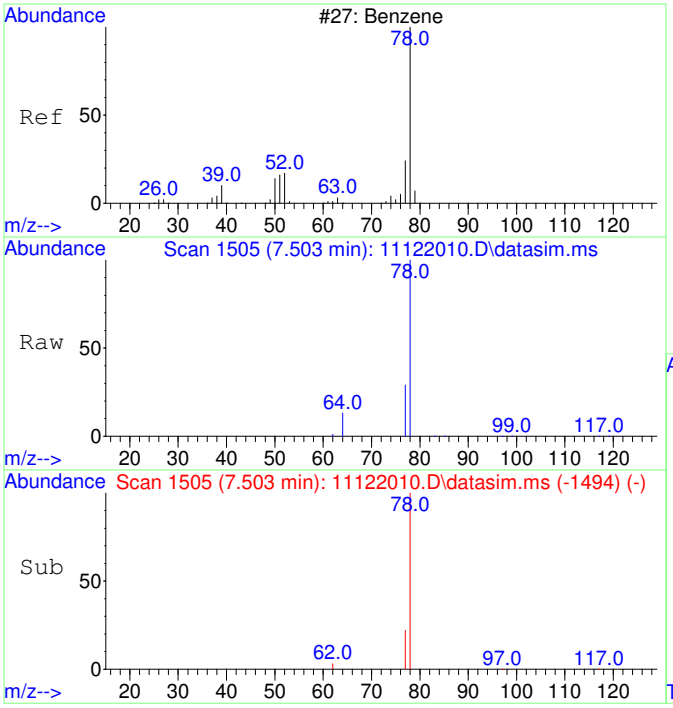


#8
Carbon tetrachloride
Concen: 97.66 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:117 Resp: 2851

Ion	Ratio	Lower	Upper
117	100		
119	98.6	66.4	126.4

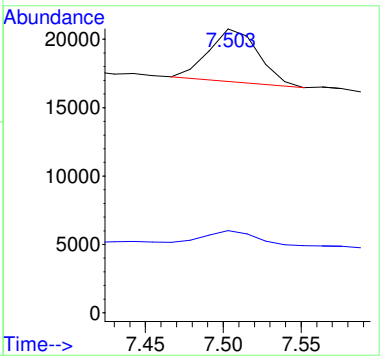


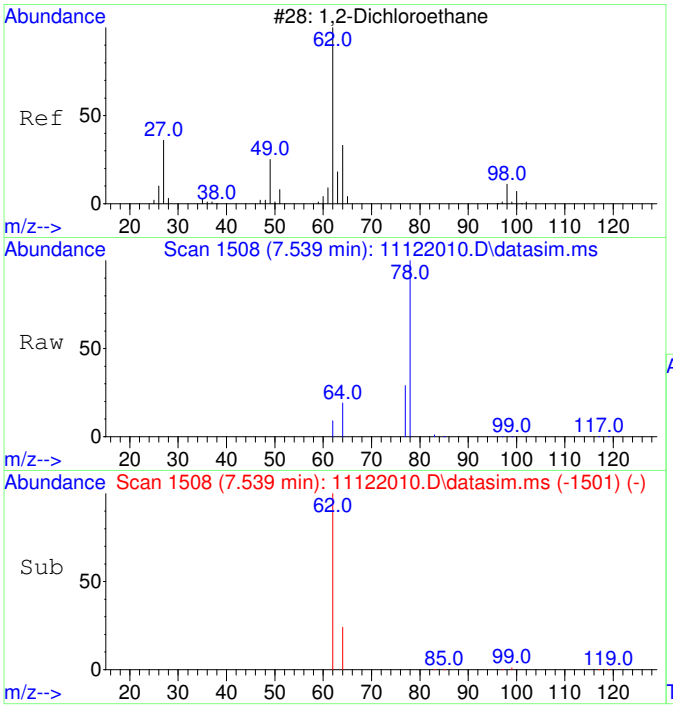


#9
Benzene
Concen: 107.02 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 78 Resp: 8370

Ion	Ratio	Lower	Upper
78	100		
77	57.9	0.0	53.2#

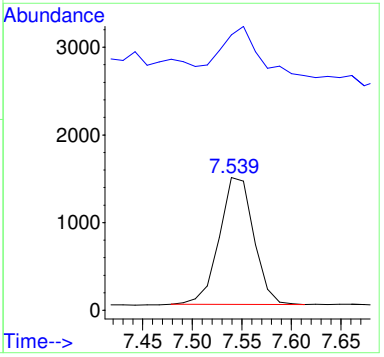


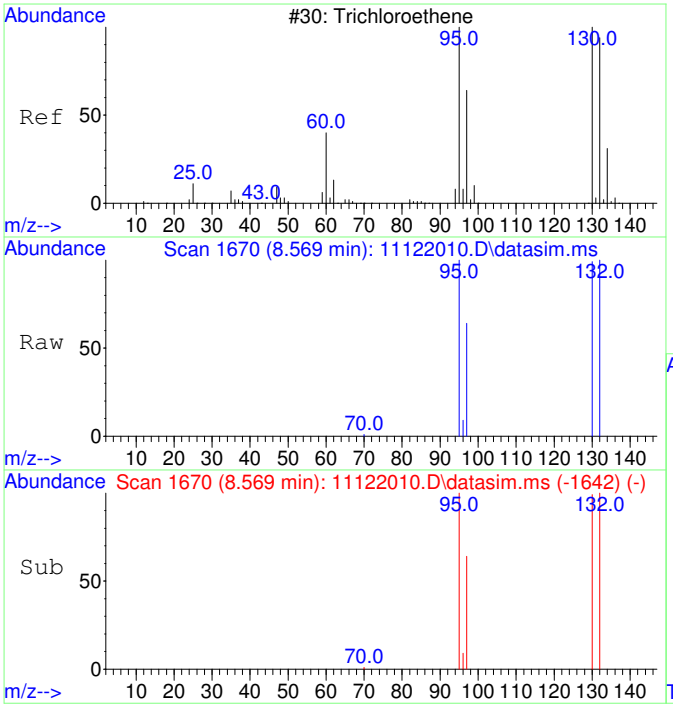


#10
1,2-Dichloroethane
Concen: 125.11 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 62 Resp: 3493

Ion	Ratio	Lower	Upper
62	100		
64	44.6	2.3	62.3

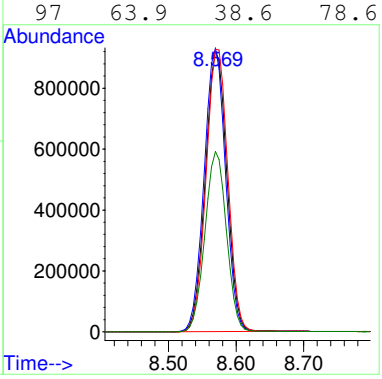


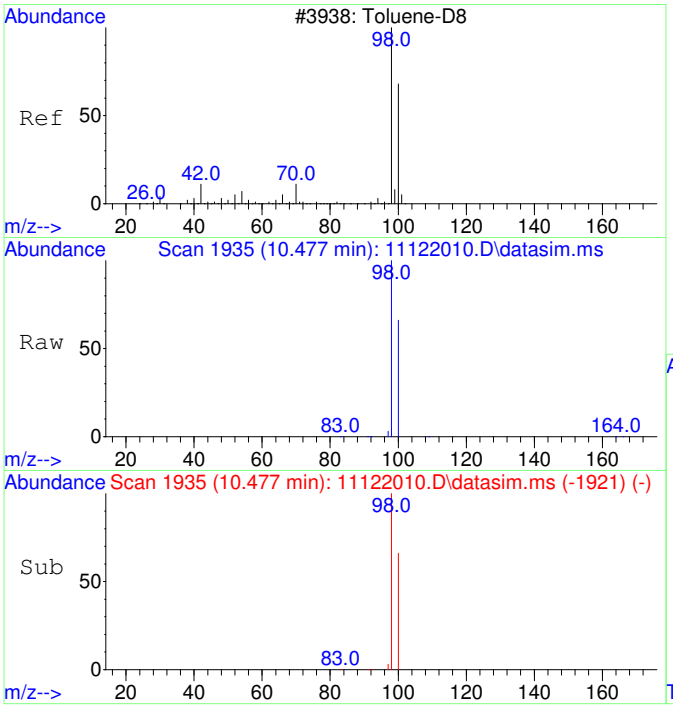


#11
Trichloroethene
Concen: 86838.82 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:130 Resp: 2044861

Ion	Ratio	Lower	Upper
130	100		
95	100.5	60.7	120.7
132	101.4	76.0	116.0
97	63.9	38.6	78.6

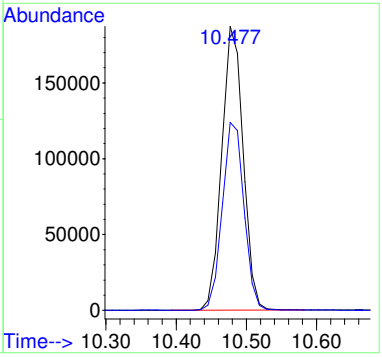


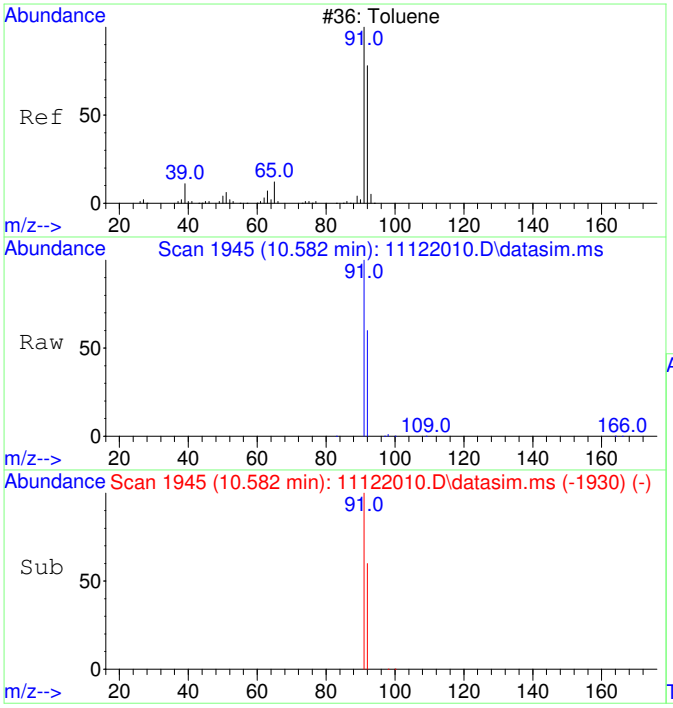


#12
Toluene-d8
Concen: 4394.49 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 98 Resp: 395990

Ion	Ratio	Lower	Upper
98	100		
100	67.0	37.1	97.1

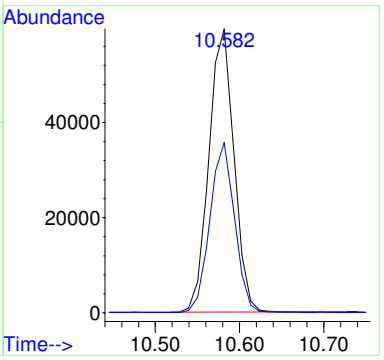


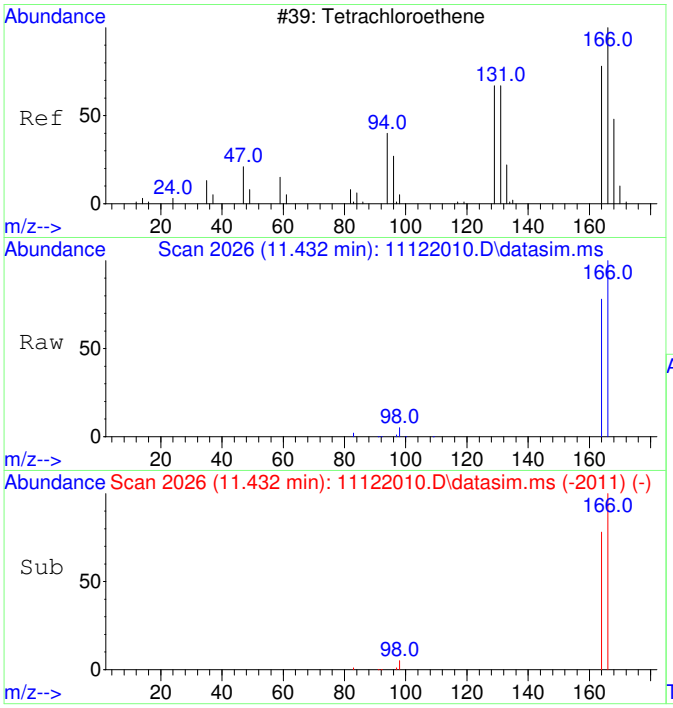


#13
Toluene
Concen: 1071.98 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 123152

Ion	Ratio	Lower	Upper
91	100		
92	58.9	29.9	89.9

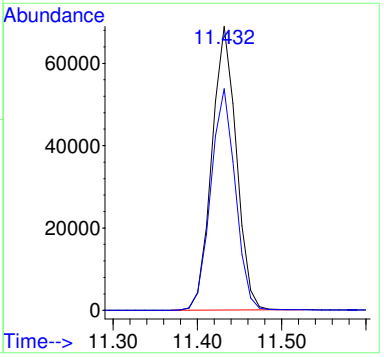


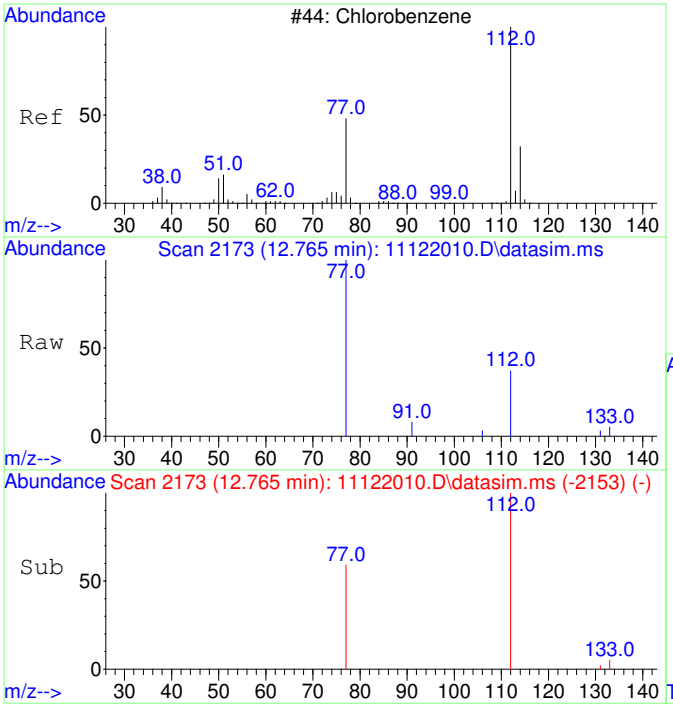


#15
Tetrachloroethene
Concen: 4183.04 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:166 Resp: 139073

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

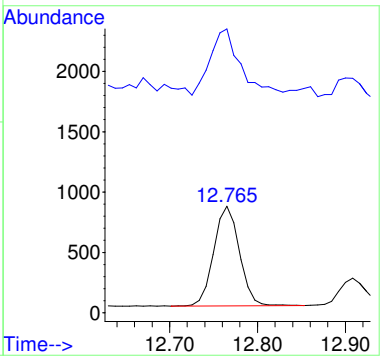


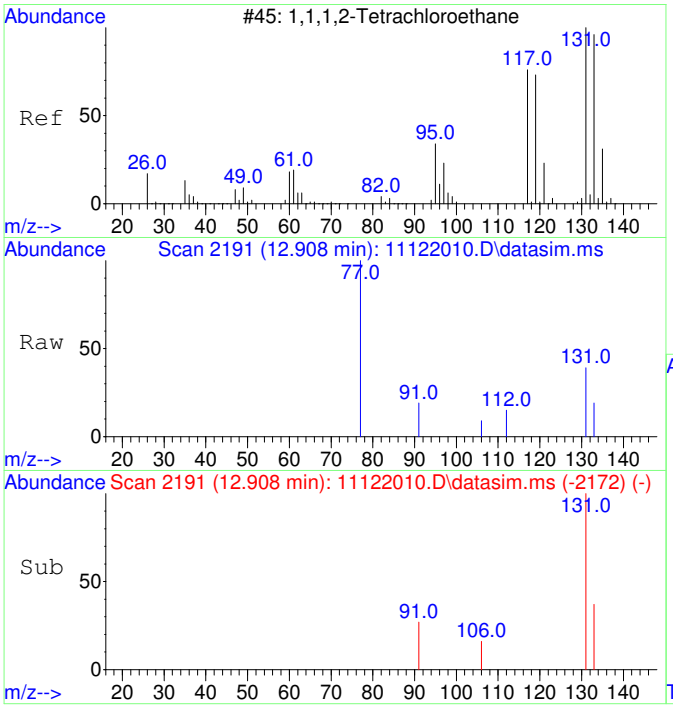


#16
Chlorobenzene
Concen: 20.29 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:112 Resp: 1669

Ion	Ratio	Lower	Upper
112	100		
77	79.1	23.6	83.6

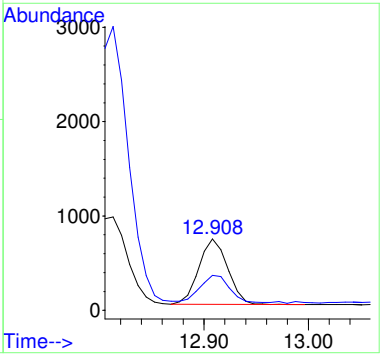


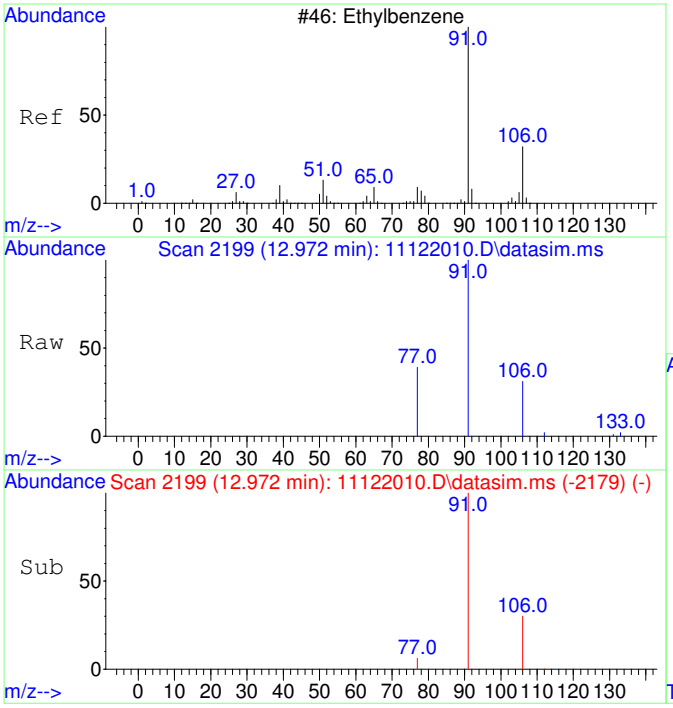


#17
1,1,1,2-Tetrachloroethane
Concen: 45.02 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:131 Resp: 1327

Ion	Ratio	Lower	Upper
131	100		
133	41.9	66.3	126.3#

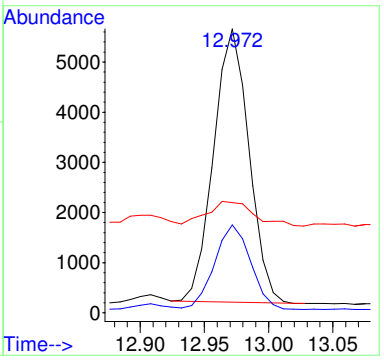


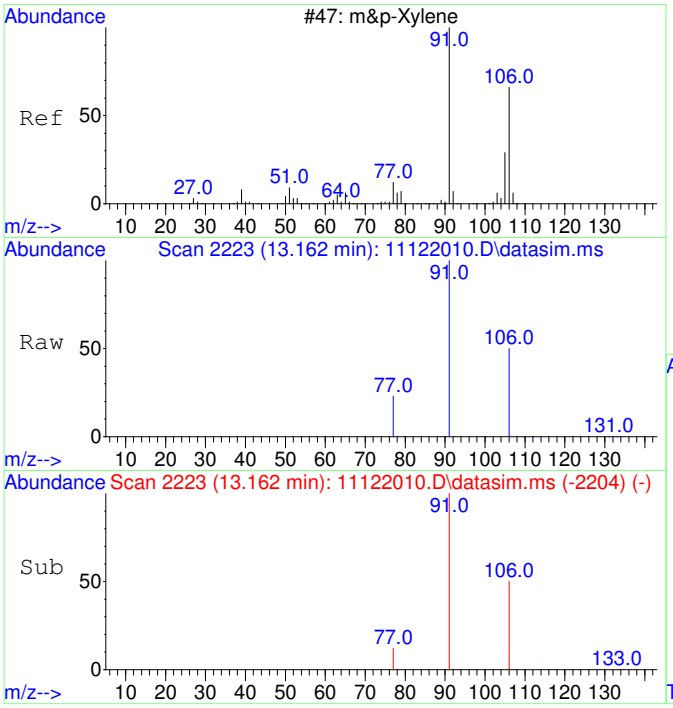


#18
Ethylbenzene
Concen: 74.34 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 10395

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	11.8	0.0	38.2

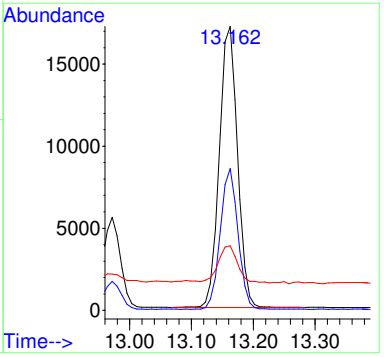


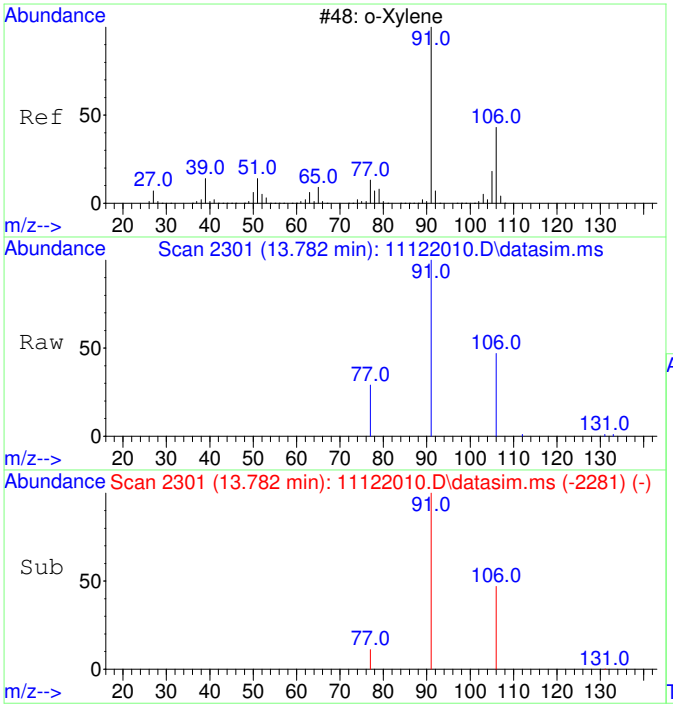


#19
m&p-Xylene
Concen: 319.70 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 34940

Ion	Ratio	Lower	Upper
91	100		
106	48.6	22.2	82.2
77	14.1	0.0	42.4

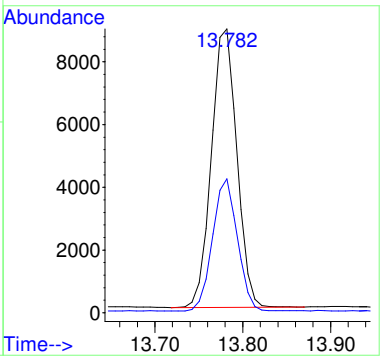


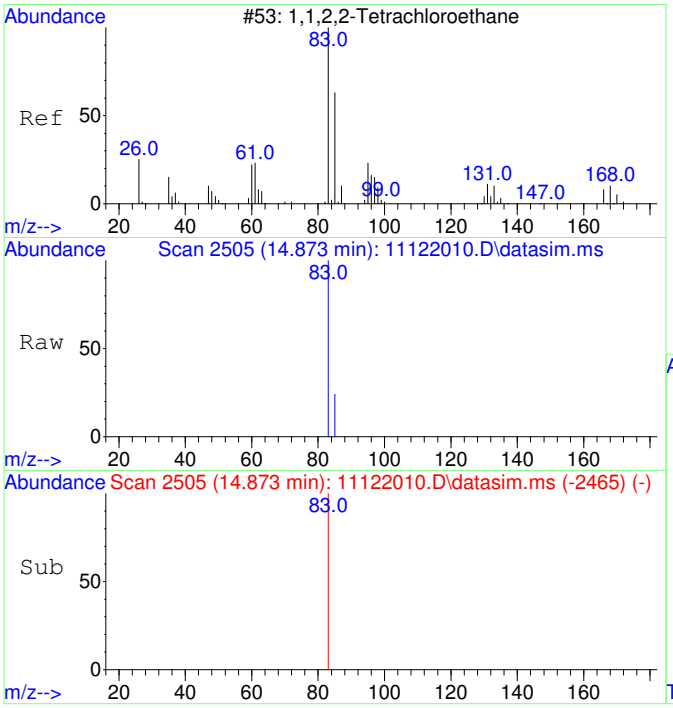


#20
o-Xylene
Concen: 153.14 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 17881

Ion	Ratio	Lower	Upper
91	100		
106	46.3	19.2	79.2

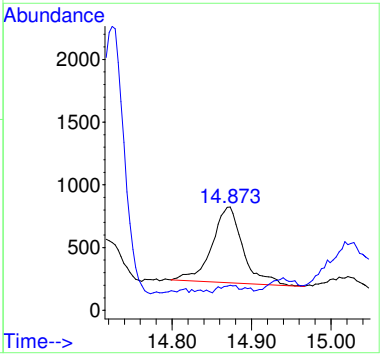


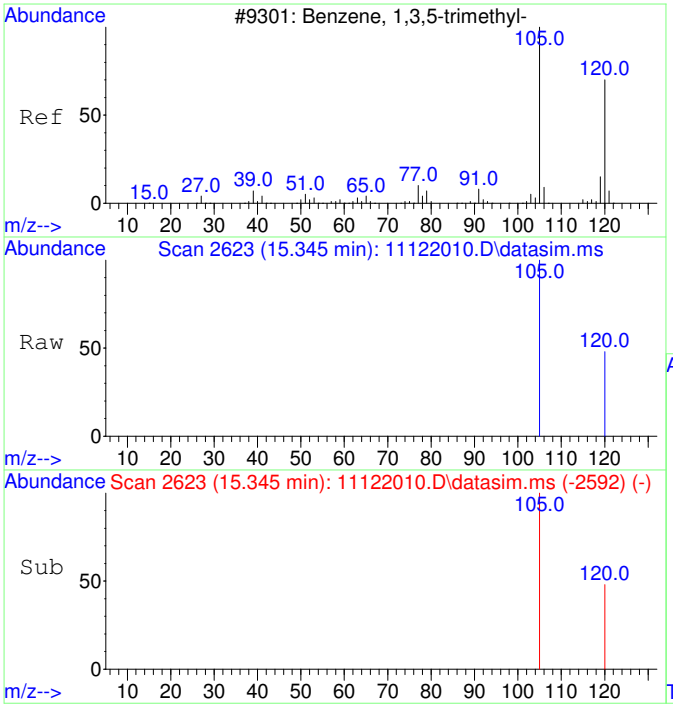


#21
1,1,2,2-Tetrachloroethane
Concen: 31.46 ug/L
RT: 14.873 min Scan# 2505
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 83 Resp: 1628

Ion	Ratio	Lower	Upper
83	100		
85	6.0	34.8	94.8#

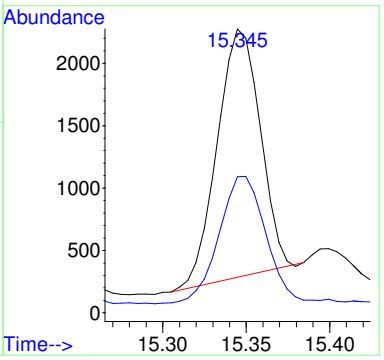


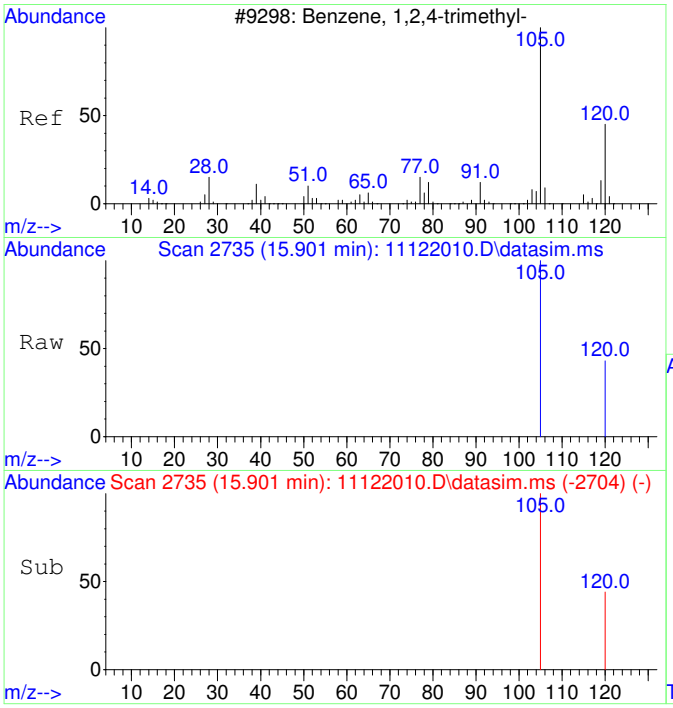


#22
1,3,5-Trimethylbenzene
Concen: 28.82 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:105 Resp: 3582

Ion	Ratio	Lower	Upper
105	100		
120	54.3	21.1	81.1

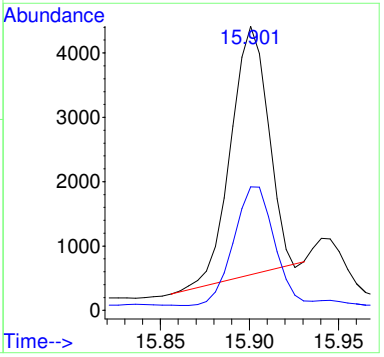


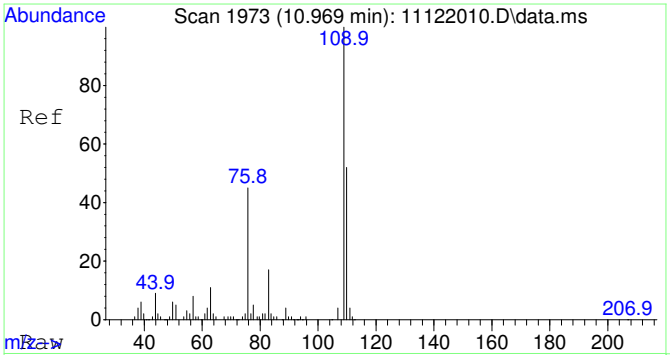


#23
1,2,4-Trimethylbenzene
Concen: 44.20 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:105 Resp: 5706

Ion	Ratio	Lower	Upper
105	100		
120	53.5	17.2	77.2

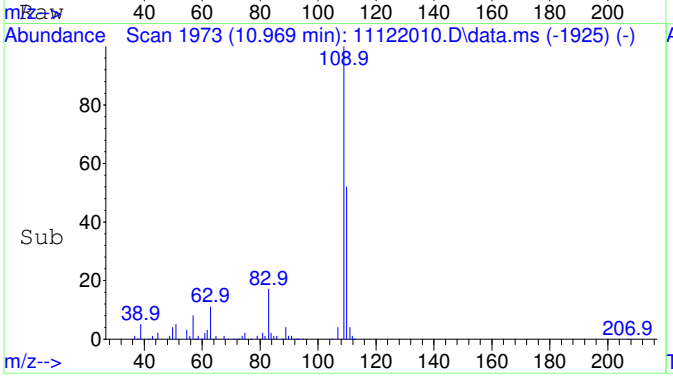


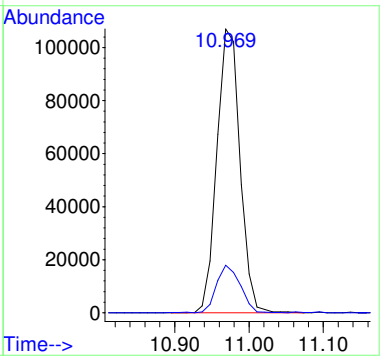


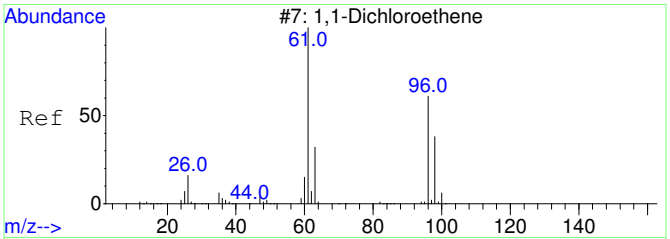
#25
2-Fluorotoluene SCAN
Concen: 5147.41 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:109 Resp: 230973

Ion	Ratio	Lower	Upper
109	100		
83	17.4	0.0	43.8



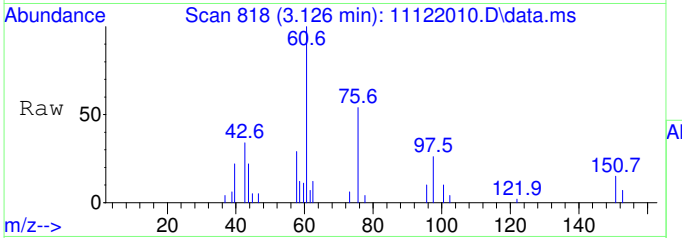


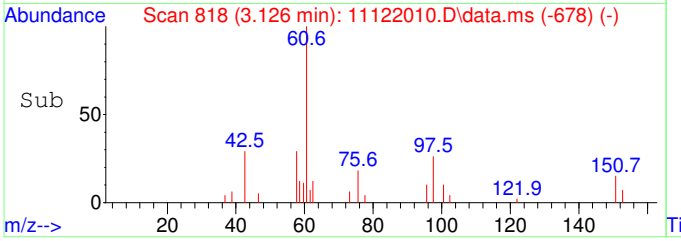


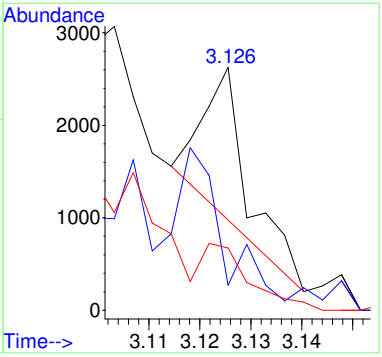
#26
1,1-Dichloroethene SCAN
Concen: 83.74 ug/L
RT: 3.126 min Scan# 818
Delta R.T. 0.019 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

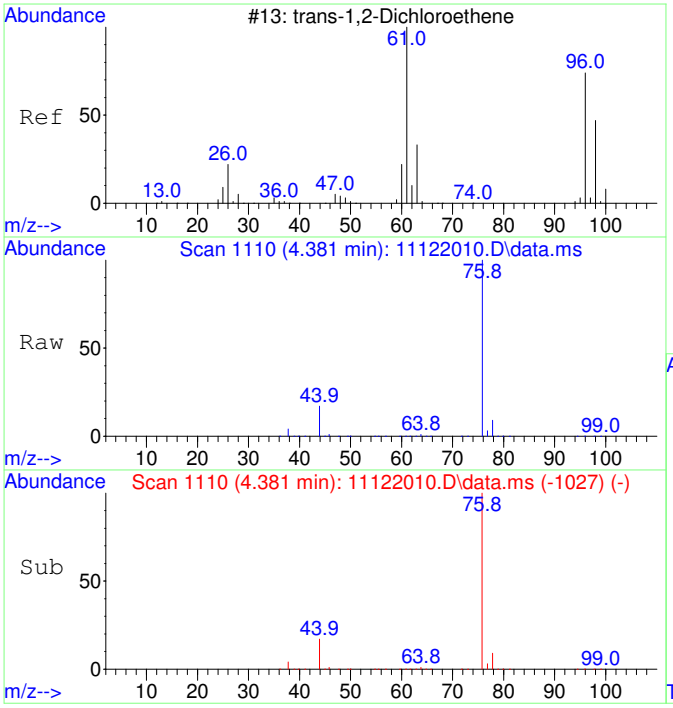
Tgt Ion: 61 Resp: 798

Ion	Ratio	Lower	Upper
61	100		
96	69.5	33.1	93.1
98	64.2	11.2	71.2





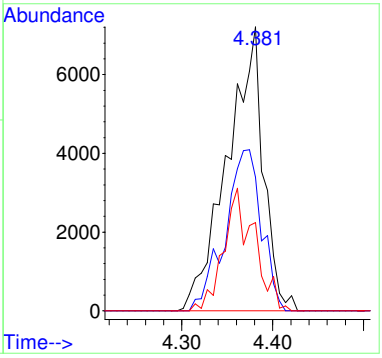


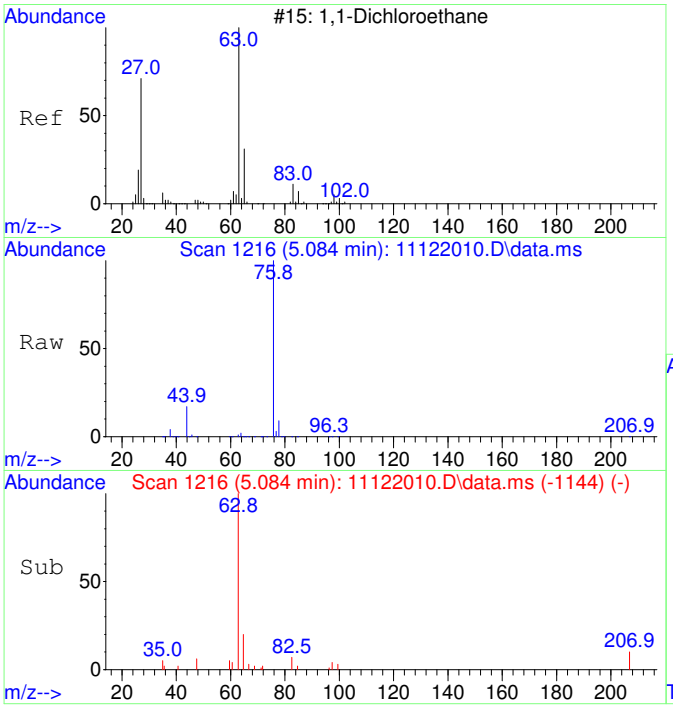


#27
trans-1,2-Dichloroethene SCAN
Concen: 1690.97 ug/L
RT: 4.381 min Scan# 1110
Delta R.T. -0.020 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 61 Resp: 19940

Ion	Ratio	Lower	Upper
61	100		
96	57.2	49.0	109.0
98	36.6	20.5	80.5

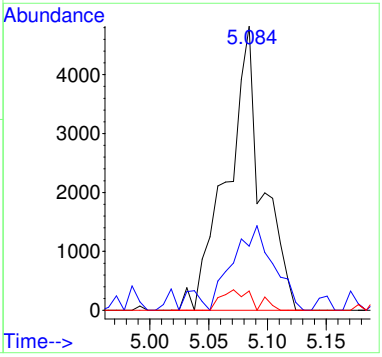


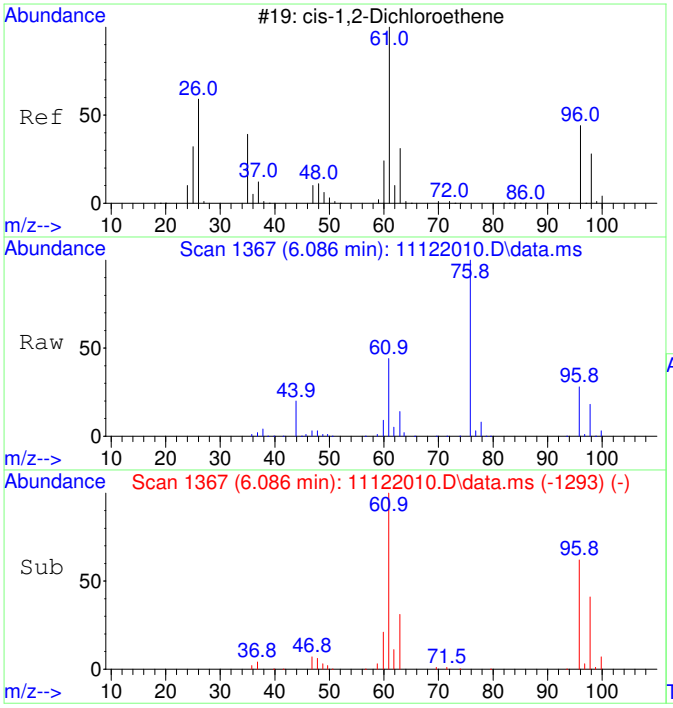


#28
1,1-Dichloroethane SCAN
Concen: 731.44 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. -0.020 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 63 Resp: 9982

Ion	Ratio	Lower	Upper
63	100		
65	34.7	1.3	61.3
83	6.8	0.0	45.9

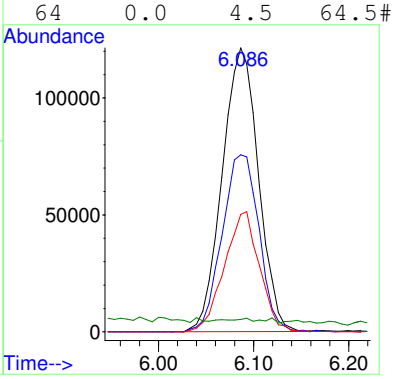


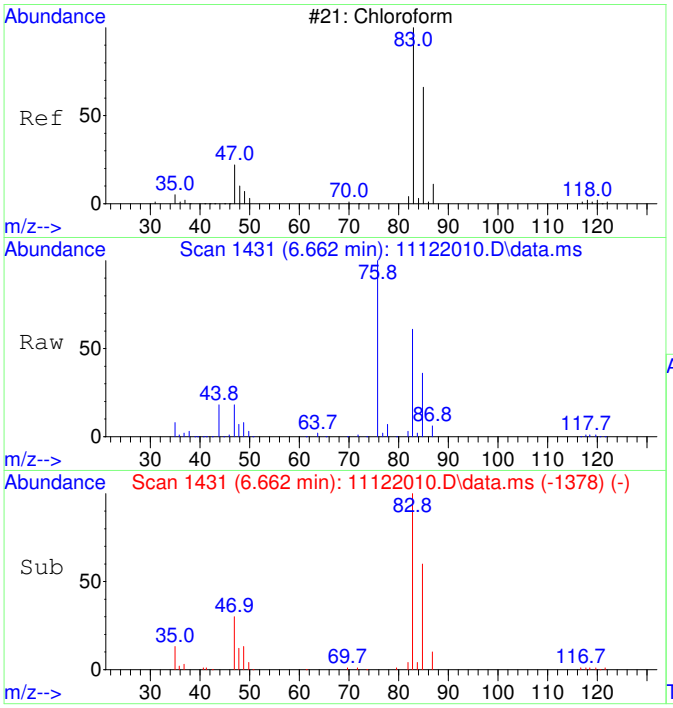


#29
cis-1,2-Dichloroethene SCAN
Concen: 22088.11 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 61 Resp: 322960

Ion	Ratio	Lower	Upper
61	100		
96	63.5	39.9	99.9
98	41.0	13.5	73.5
64	0.0	4.5	64.5#

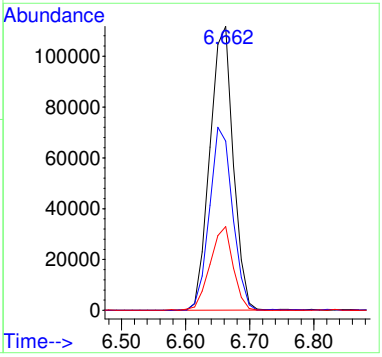


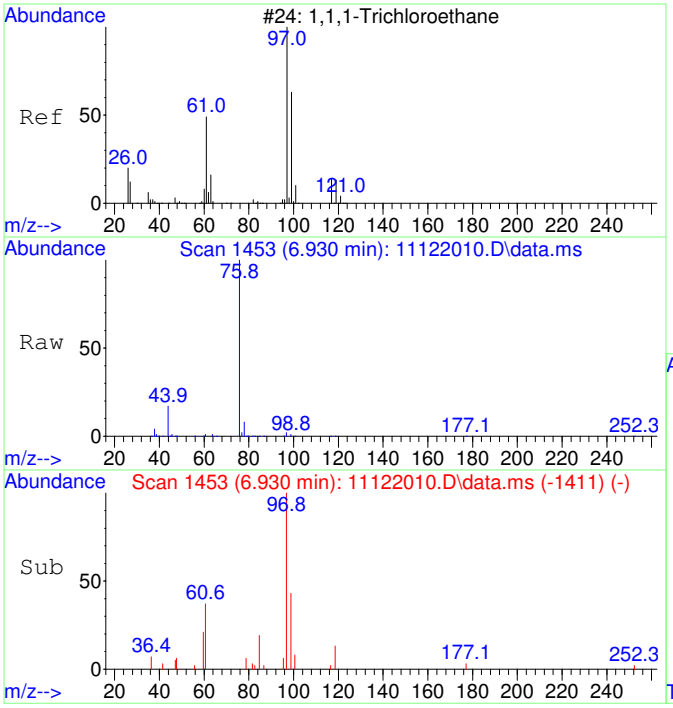


#30
Chloroform SCAN
Concen: 17810.02 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 83 Resp: 282449

Ion	Ratio	Lower	Upper
83	100		
85	63.7	34.6	94.6
47	29.2	0.0	53.4

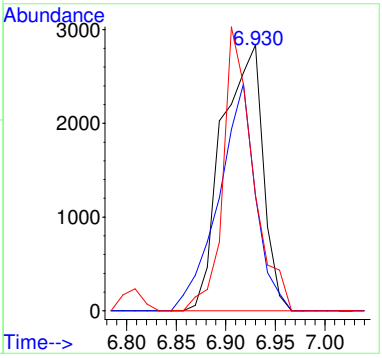


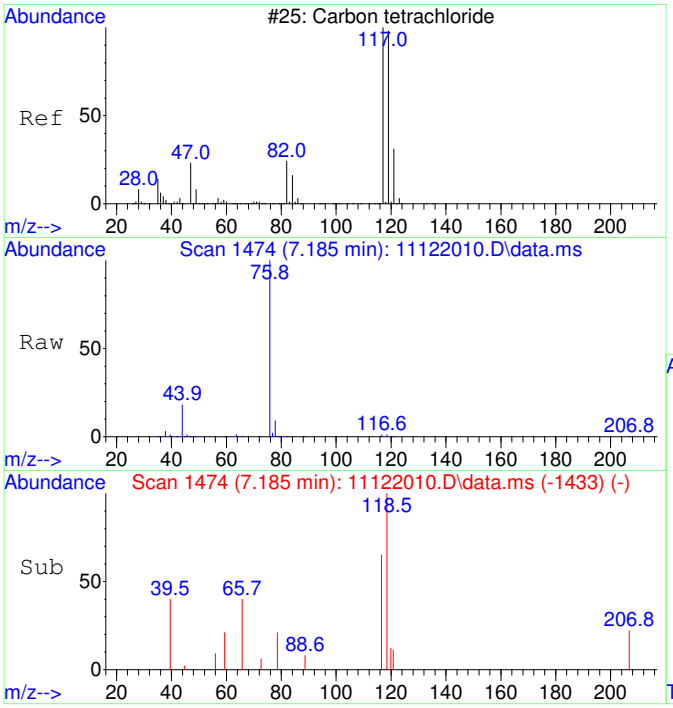


#31
1,1,1-Trichloroethane SCAN
Concen: 564.97 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. 0.012 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 97 Resp: 8165

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

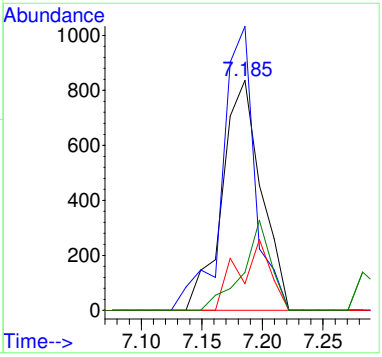


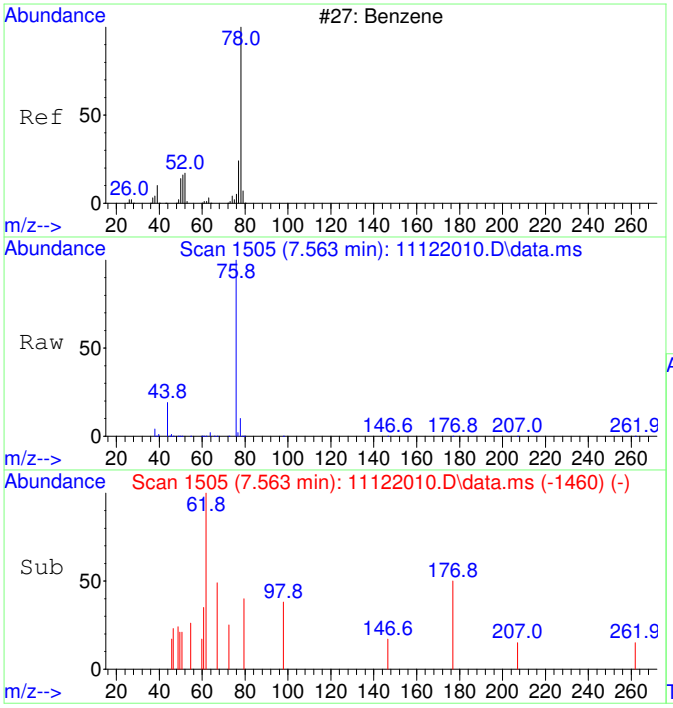


#32
Carbon tetrachloride SCAN
Concen: 125.31 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:117 Resp: 1889

Ion	Ratio	Lower	Upper
117	100		
119	102.7	75.5	135.5
121	25.3	0.0	58.8
82	28.5	0.0	59.2

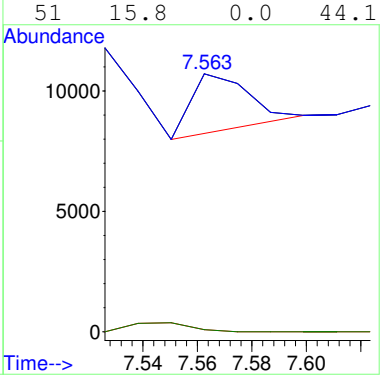


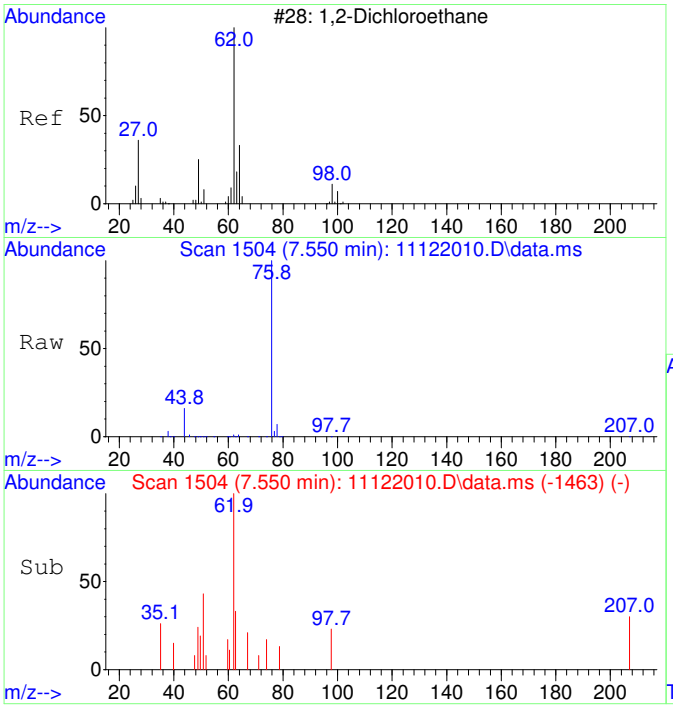


#33
Benzene SCAN
Concen: 94.59 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.049 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 78 Resp: 3764

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	15.8	0.0	47.9
51	15.8	0.0	44.1

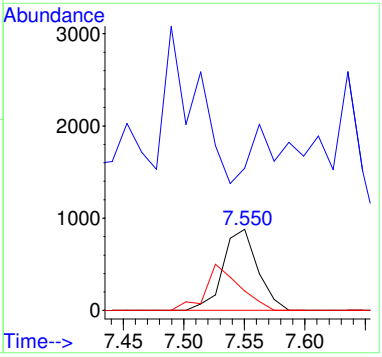


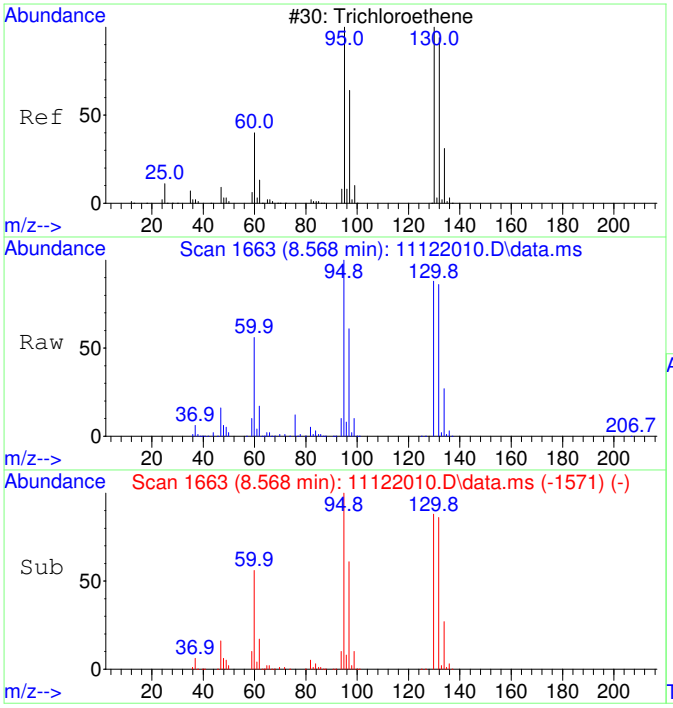


#34
1,2-Dichloroethane SCAN
Concen: 119.71 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 62 Resp: 1759

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

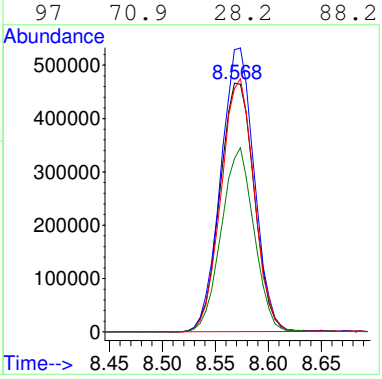


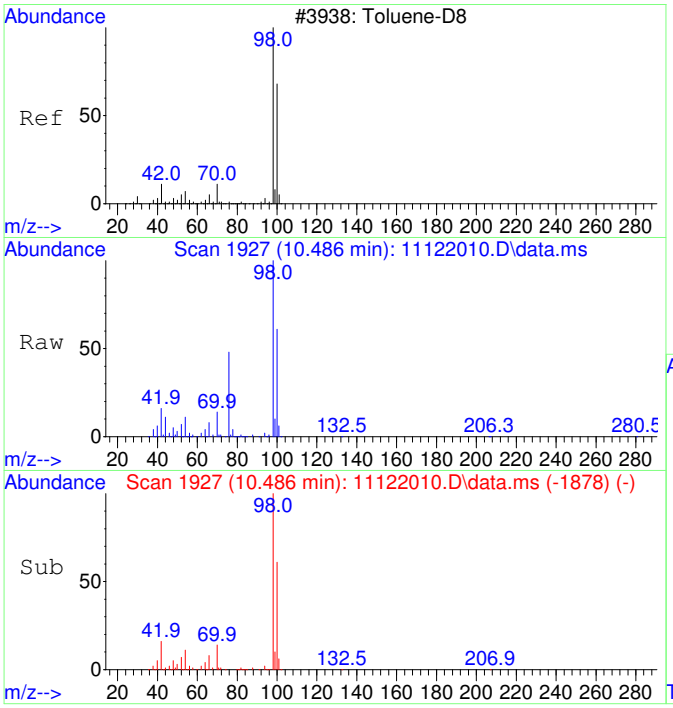


#35
Trichloroethene SCAN
Concen: 95729.60 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:130 Resp: 1046807

Ion	Ratio	Lower	Upper
130	100		
95	112.3	60.5	120.5
132	98.6	59.6	119.6
97	70.9	28.2	88.2

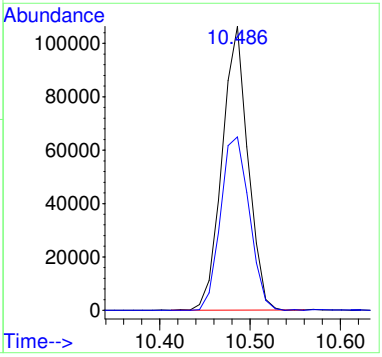


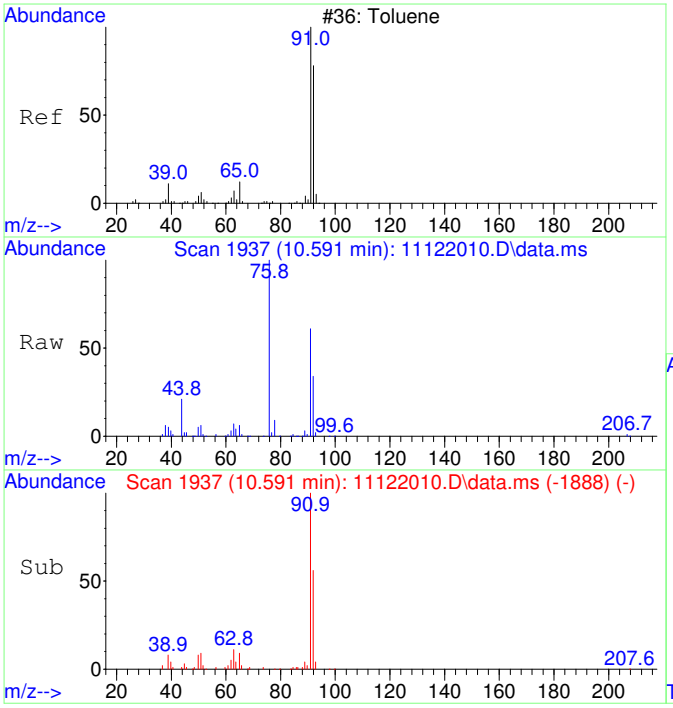


#36
Toluene-d8 SCAN
Concen: 4852.59 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 98 Resp: 212947

Ion	Ratio	Lower	Upper
98	100		
100	67.8	40.0	100.0

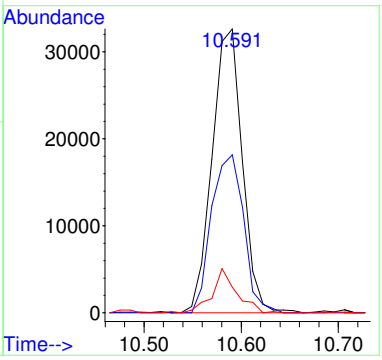


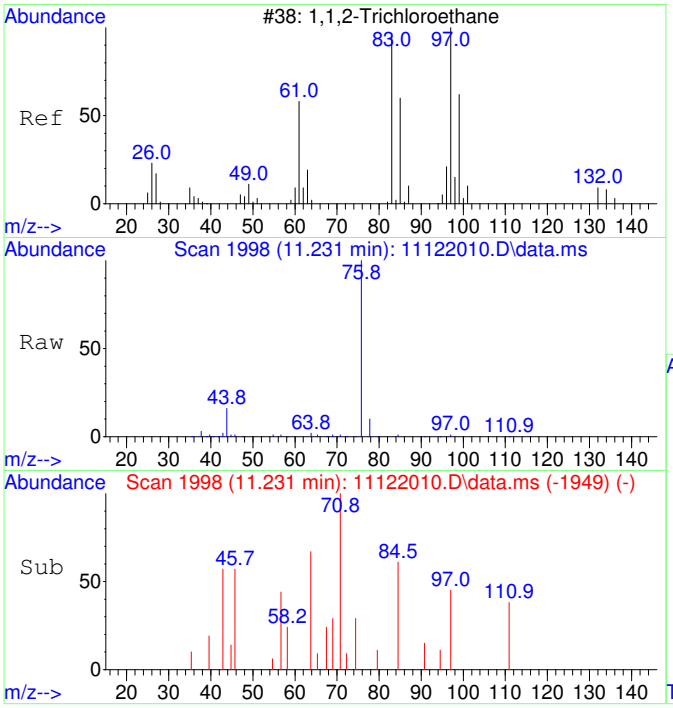


#37
Toluene SCAN
Concen: 1253.21 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 70429

Ion	Ratio	Lower	Upper
91	100		
92	59.3	28.3	88.3
65	12.6	0.0	41.0

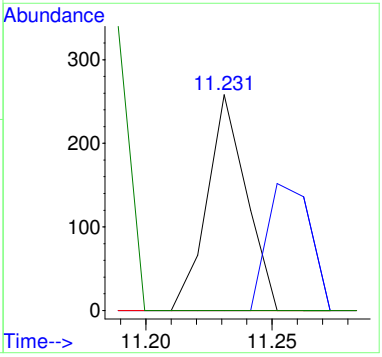


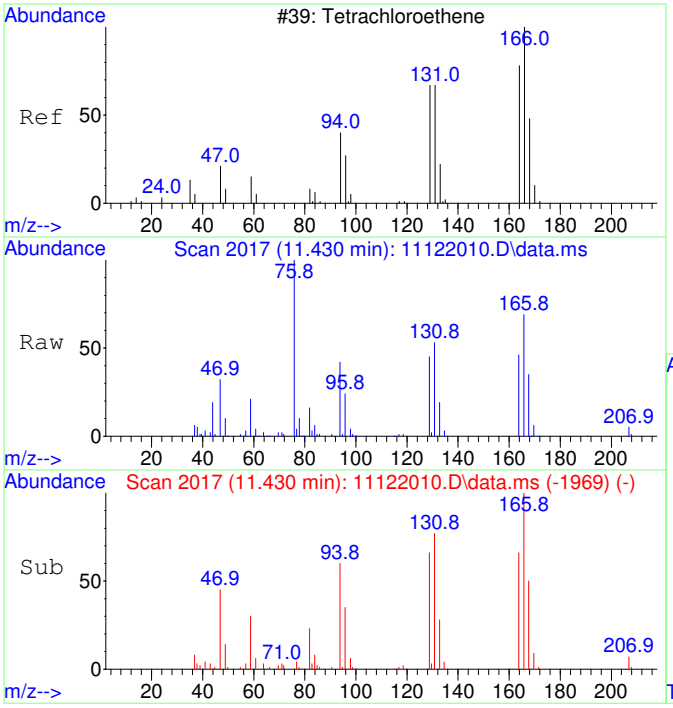


#38
1,1,2-Trichloroethane SCAN
Concen: 22.20 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. 0.010 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 97 Resp: 280

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#

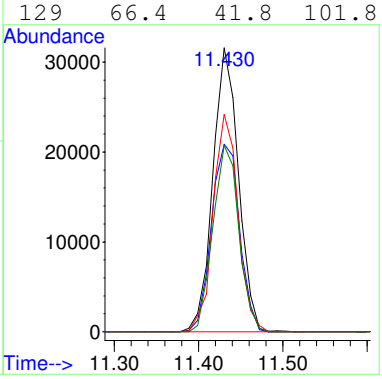


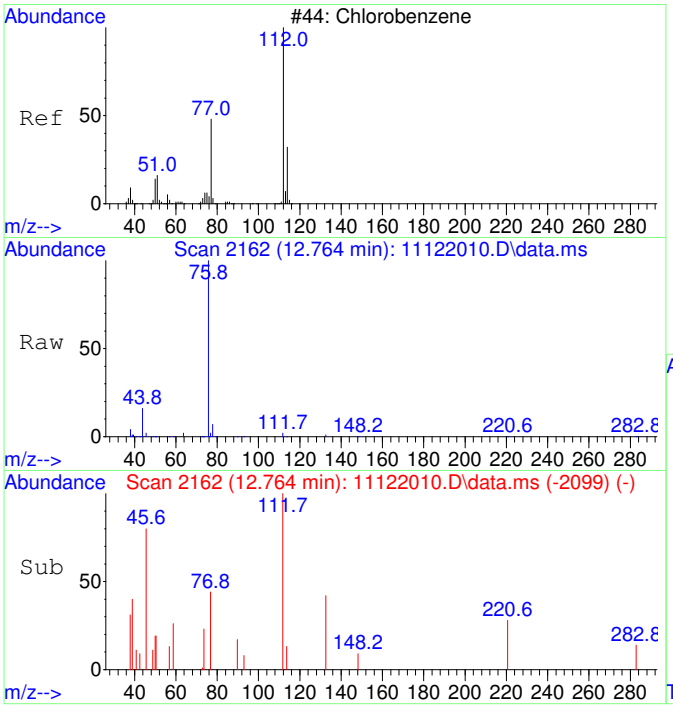


#39
Tetrachloroethene SCAN
Concen: 4951.63 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:166 Resp: 66855

Ion	Ratio	Lower	Upper
166	100		
164	72.3	50.9	110.9
131	74.2	38.7	98.7
129	66.4	41.8	101.8

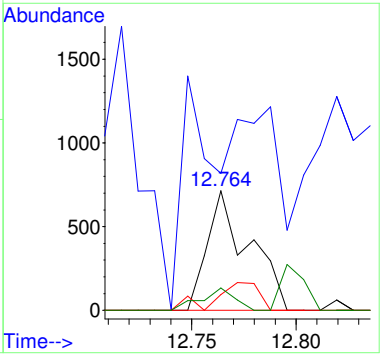


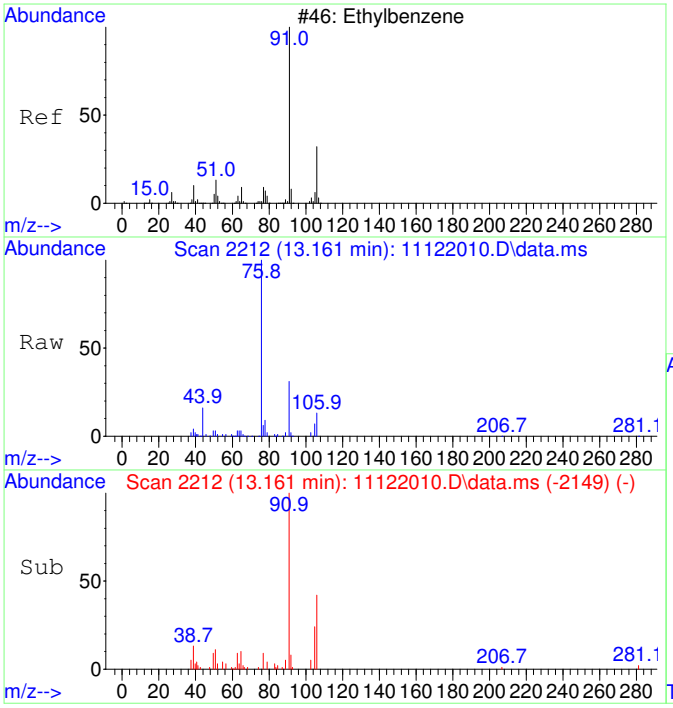


#40
Chlorobenzene SCAN
Concen: 25.88 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:112 Resp: 994

Ion	Ratio	Lower	Upper
112	100		
77	0.0	28.2	88.2#
114	24.1	2.3	62.3
51	14.8	0.0	50.1

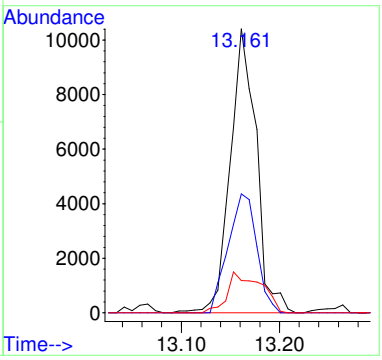


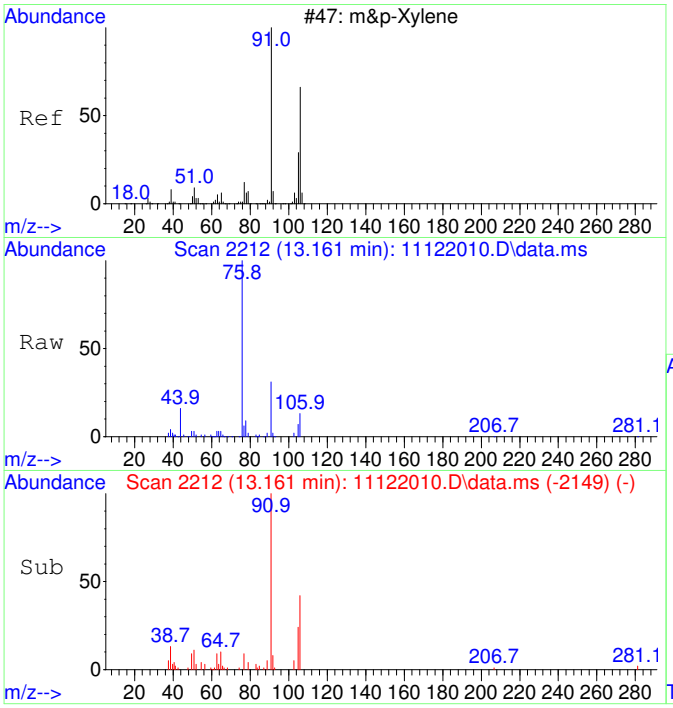


#42
Ethylbenzene SCAN
Concen: 186.92 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 19138

Ion	Ratio	Lower	Upper
91	100		
106	46.0	23.1	83.1
51	18.5	0.0	40.1

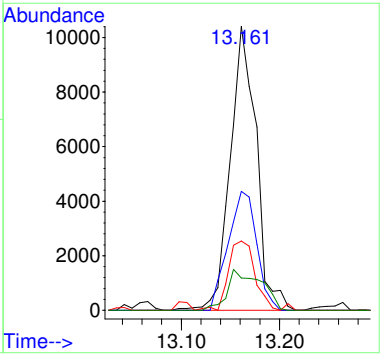


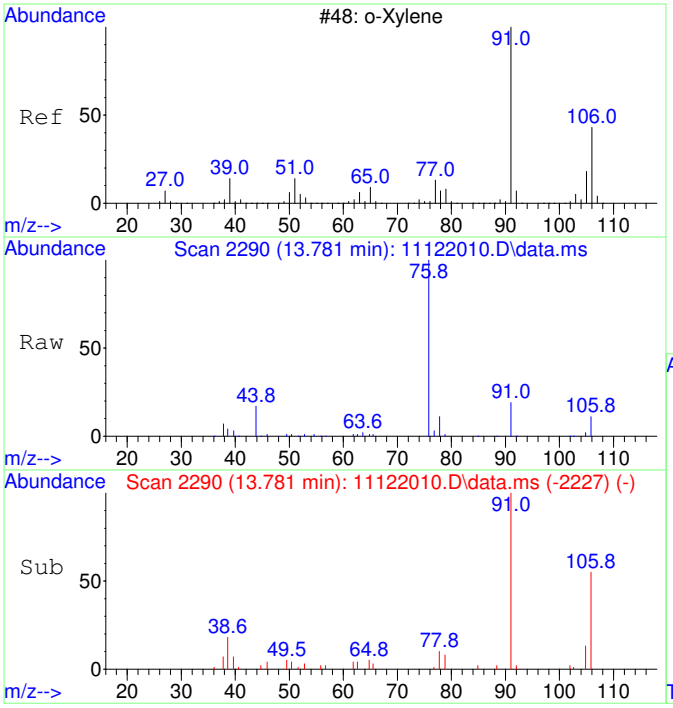


#43
m&p-Xylene SCAN
Concen: 186.92 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 19138

Ion	Ratio	Lower	Upper
91	100		
106	46.0	23.1	83.1
105	23.7	0.0	54.7
51	18.5	0.0	40.1

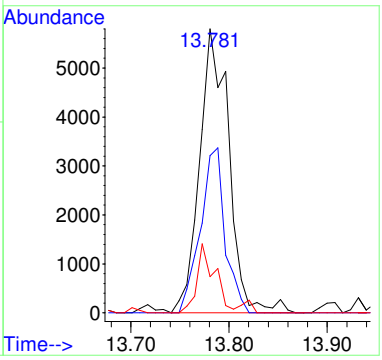


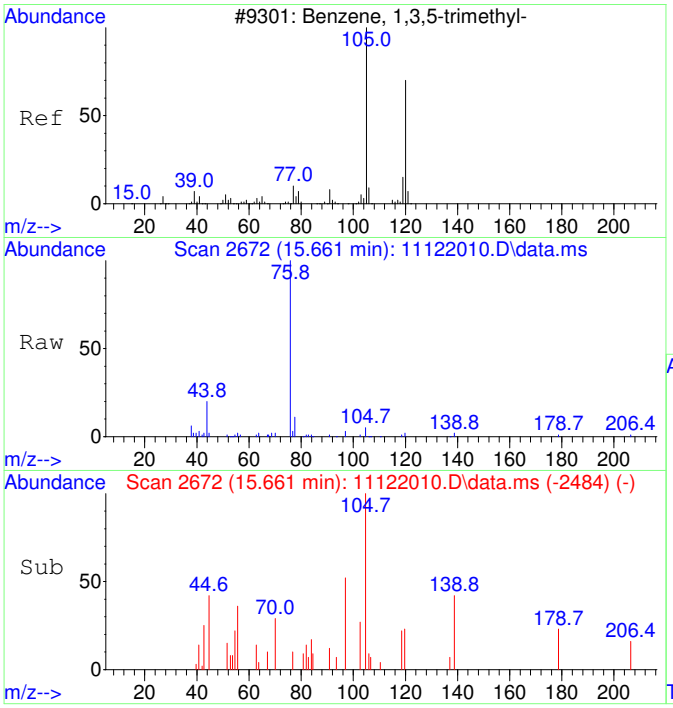


#44
o-Xylene SCAN
Concen: 219.71 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion: 91 Resp: 12041

Ion	Ratio	Lower	Upper
91	100		
106	48.8	18.0	78.0
105	13.8	0.0	56.6

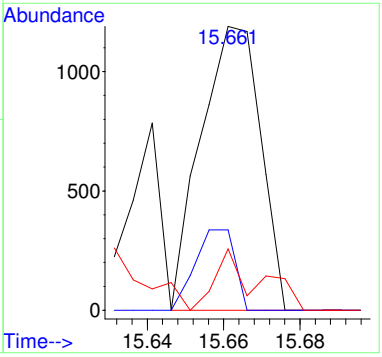


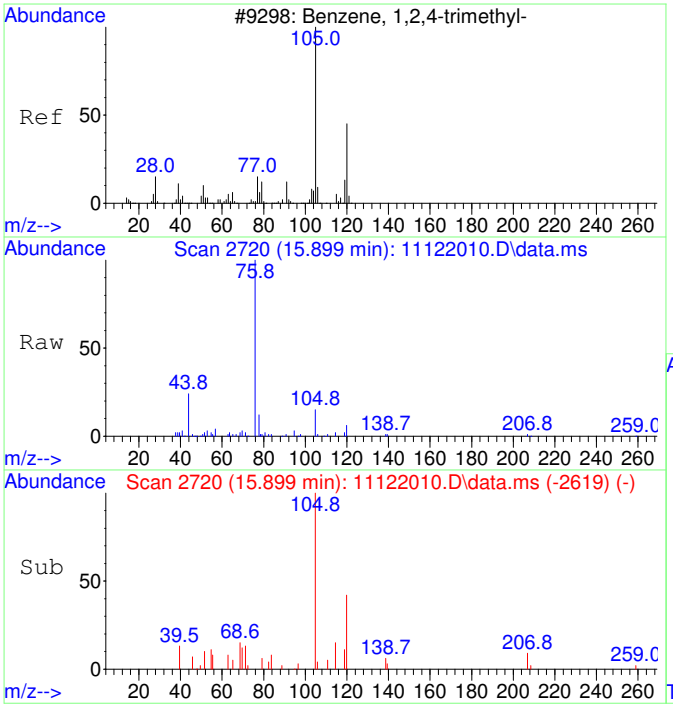


#46
1,3,5-Trimethylbenzene SCAN
Concen: 22.44 ug/L
RT: 15.661 min Scan# 2672
Delta R.T. 0.318 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:105 Resp: 1296

Ion	Ratio	Lower	Upper
105	100		
120	18.8	18.3	78.3
119	15.4	0.0	43.1

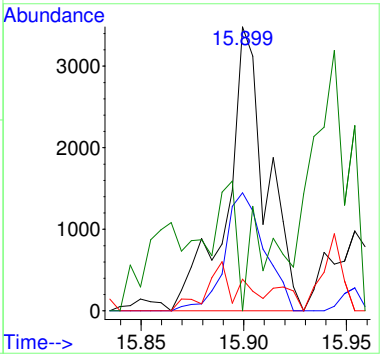




#47
1,2,4-Trimethylbenzene SCAN
Concen: 78.31 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.000 min
Lab File: 11122010.D
Acq: 12 Nov 2020 12:01

Tgt Ion:105 Resp: 4628

Ion	Ratio	Lower	Upper
105	100		
120	42.0	16.9	76.9
119	10.1	0.0	41.9
77	13.1	0.0	42.3



2011015-03

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122011.D
Acq On : 12 Nov 2020 12:25
InstName : AG5975C
Operator : TD
Sample : 2011015-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 12 12:43:57 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

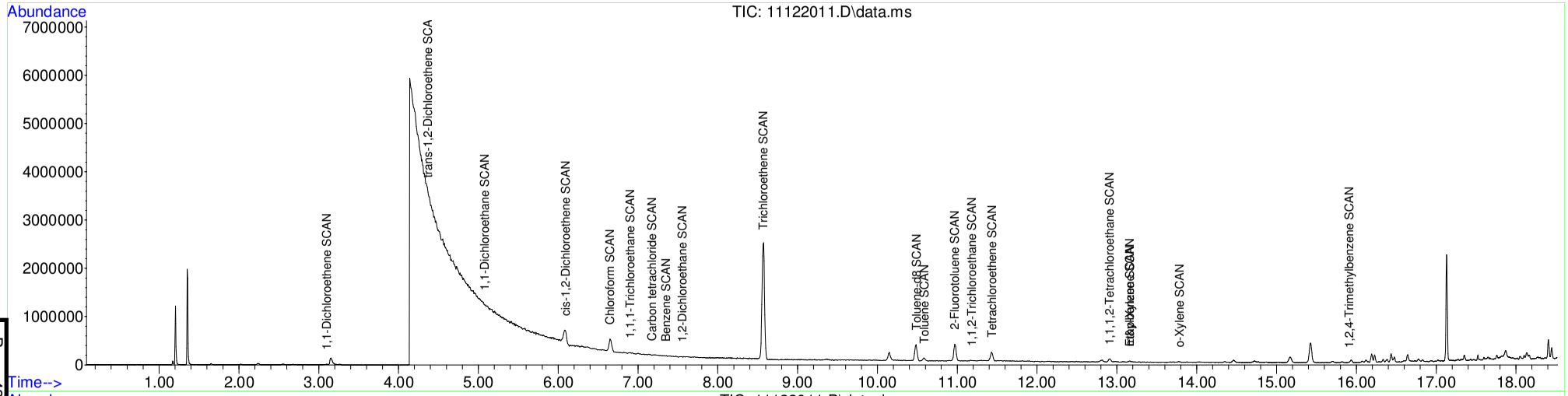
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	531401	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	450169	4327.41 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.55%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.093	61	15010	707.36 ug/L	79
3] trans-1,2-Dichloroethene	4.362	61	24209	987.45 ug/L	98
4] 1,1-Dichloroethane	5.079	63	13561	444.35 ug/L	97
5] cis-1,2-Dichloroethene	6.081	61	429186	13322.83 ug/L	99
6] Chloroform	6.651	83	405229	12289.87 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	14259	398.20 ug/L	99
8] Carbon tetrachloride	7.174	117	2523	74.86 ug/L	98
9] Benzene	7.503	78	9143	101.26 ug/L	57
10] 1,2-Dichloroethane	7.539	62	2747	85.23 ug/L	65
11] Trichloroethene	8.569	130	1679455	61779.80 ug/L OC	92
13] Toluene	10.582	91	91804	692.20 ug/L	98
14] 1,1,2-Trichloroethane	11.159	97	885	30.62 ug/L #	27
15] Tetrachloroethene	11.432	166	116290	3029.84 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.908	131	1157	34.00 ug/L #	48
18] Ethylbenzene	12.972	91	8670	53.71 ug/L	98
19] m&p-Xylene	13.162	91	23413	185.57 ug/L	94
20] o-Xylene	13.782	91	15595	115.69 ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	3976	26.68 ug/L	95
25) 2-Fluorotoluene SCAN	10.969	109	277351	5354.08 ug/L	100
26) 1,1-Dichloroethene SCAN	3.103	61	1362	123.81 ug/L #	1
27) trans-1,2-Dichloroethe...	4.368	61	14929	1096.66 ug/L	71
28) 1,1-Dichloroethane SCAN	5.078	63	2339	148.46 ug/L #	62
29) cis-1,2-Dichloroethene...	6.086	61	253008	14988.98 ug/L #	83
30) Chloroform SCAN	6.650	83	236511	12918.25 ug/L	94
31) 1,1,1-Trichloroethane ...	6.906	97	7631	457.38 ug/L	88
32) Carbon tetrachloride SCAN	7.173	117	1530	87.91 ug/L	89
33) Benzene SCAN	7.343	78	5176	112.68 ug/L	93
34) 1,2-Dichloroethane SCAN	7.550	62	1898	111.89 ug/L #	41
35) Trichloroethene SCAN	8.568	130	854996	67728.54 ug/L	84
36) Toluene-d8 SCAN	10.486	98	249236	4919.72 ug/L	93
37) Toluene SCAN	10.580	91	50365	776.30 ug/L	95
38) 1,1,2-Trichloroethane ...	11.178	97	1198	82.27 ug/L #	13
39) Tetrachloroethene SCAN	11.430	166	54423	3491.60 ug/L	94
41) 1,1,1,2-Tetrachloroeth...	12.907	131	684	41.69 ug/L #	46
42) Ethylbenzene SCAN	13.161	91	13007	110.04 ug/L	97
43) m&p-Xylene SCAN	13.161	91	13007	110.04 ug/L	94
44) o-Xylene SCAN	13.781	91	9447	149.32 ug/L	84
47) 1,2,4-Trimethylbenzene...	15.904	105	3140	46.02 ug/L #	55

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122011.D
Acq On : 12 Nov 2020 12:25
InstName : AG5975C
Operator : TD
Sample : 2011015-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 12 12:43:57 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



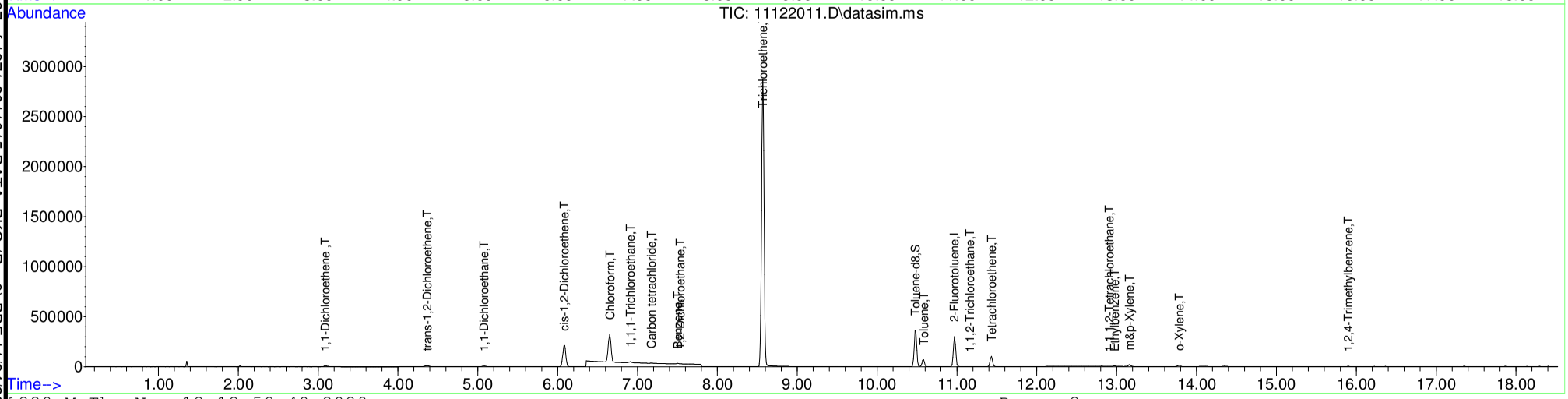
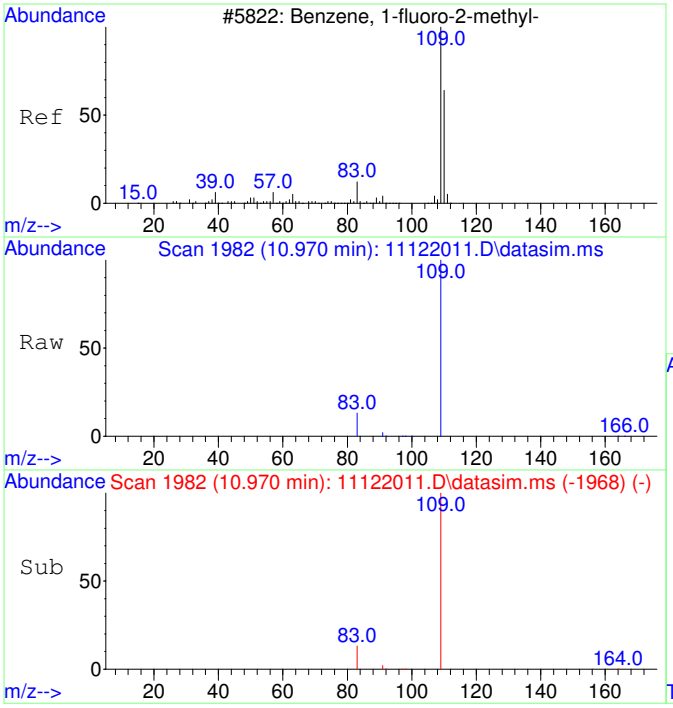


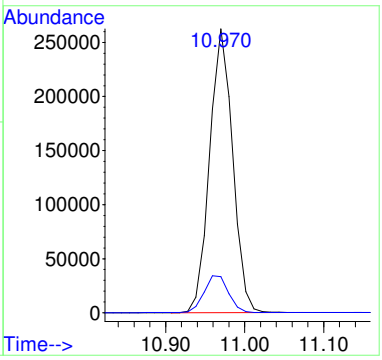
Table of Contents

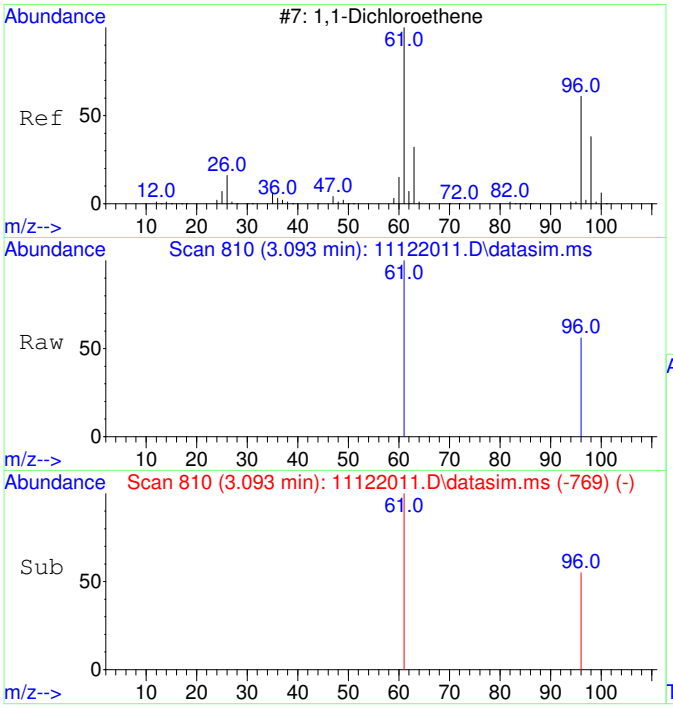


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:109 Resp: 531401

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	42.3

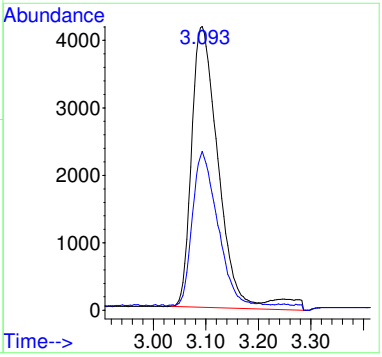




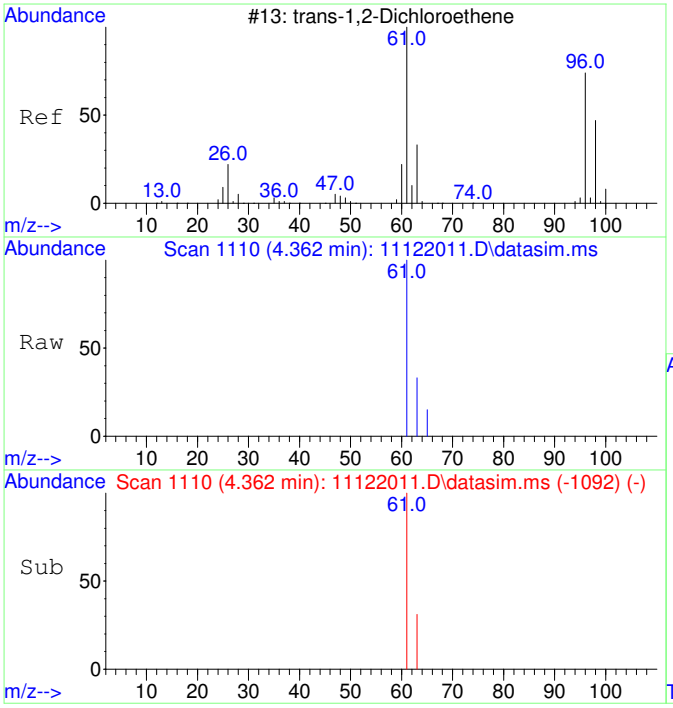
#2
1,1-Dichloroethene
Concen: 707.36 ug/L
RT: 3.093 min Scan# 810
Delta R.T. 0.003 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 61 Resp: 15010

Ion	Ratio	Lower	Upper
61	100		
96	50.4	37.2	97.2



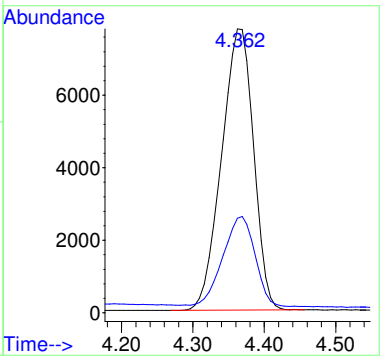
Before MI:
IMPROPER
BASELINE

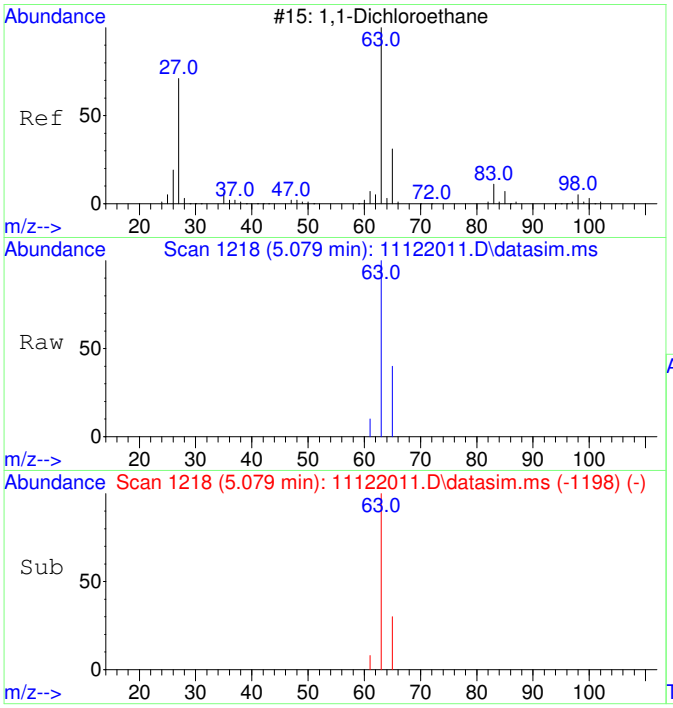


#3
trans-1,2-Dichloroethene
Concen: 987.45 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. -0.033 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 61 Resp: 24209

Ion	Ratio	Lower	Upper
61	100		
63	33.3	2.4	62.4

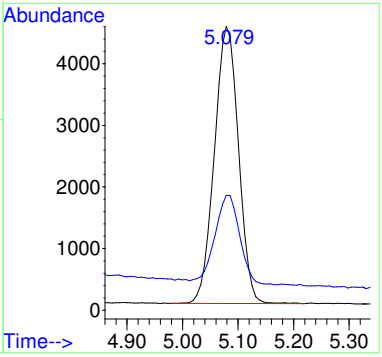


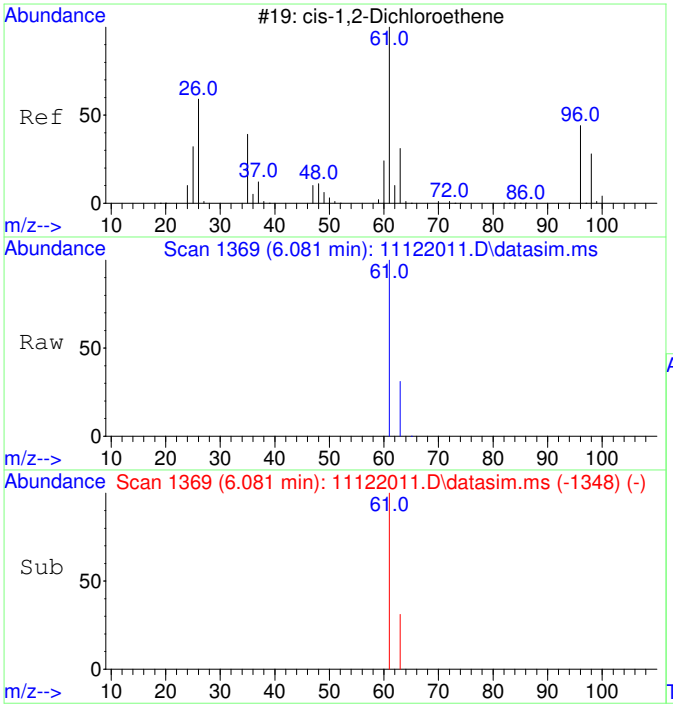


#4
1,1-Dichloroethane
Concen: 444.35 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 63 Resp: 13561

Ion	Ratio	Lower	Upper
63	100		
65	33.7	1.8	61.8

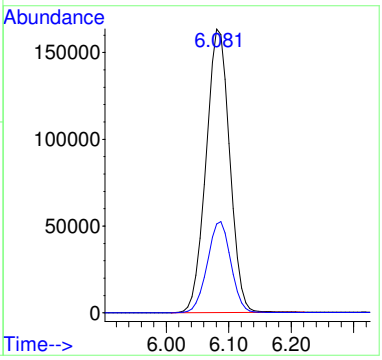


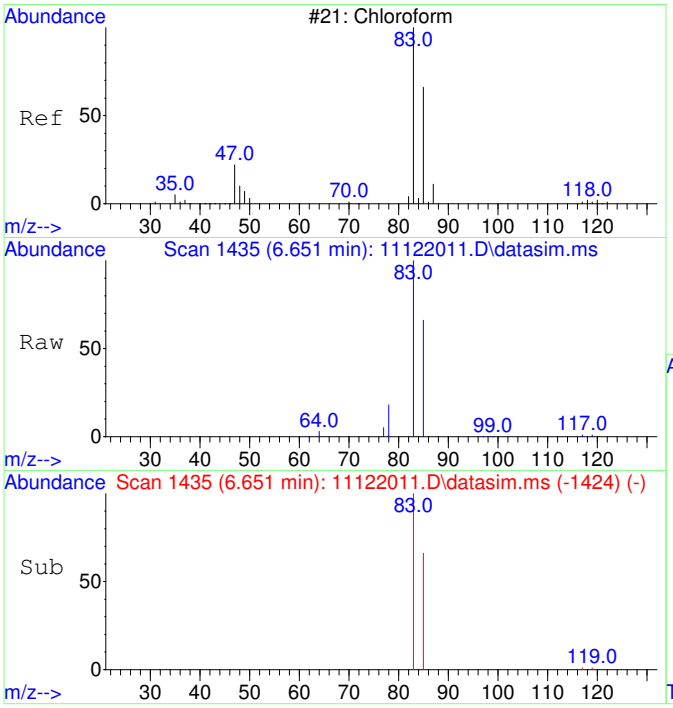


#5
cis-1,2-Dichloroethene
Concen: 13322.83 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 61 Resp: 429186

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

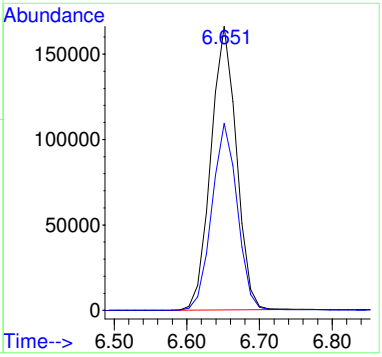


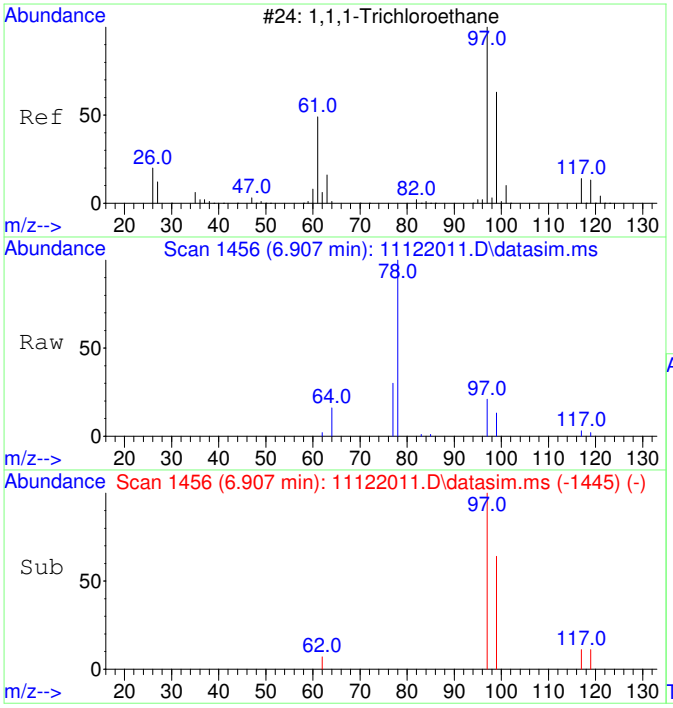


#6
Chloroform
Concen: 12289.87 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 83 Resp: 405229

Ion	Ratio	Lower	Upper
83	100		
85	65.4	35.1	95.1

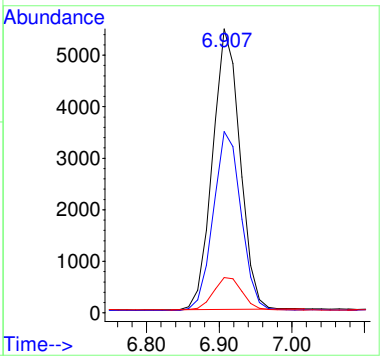


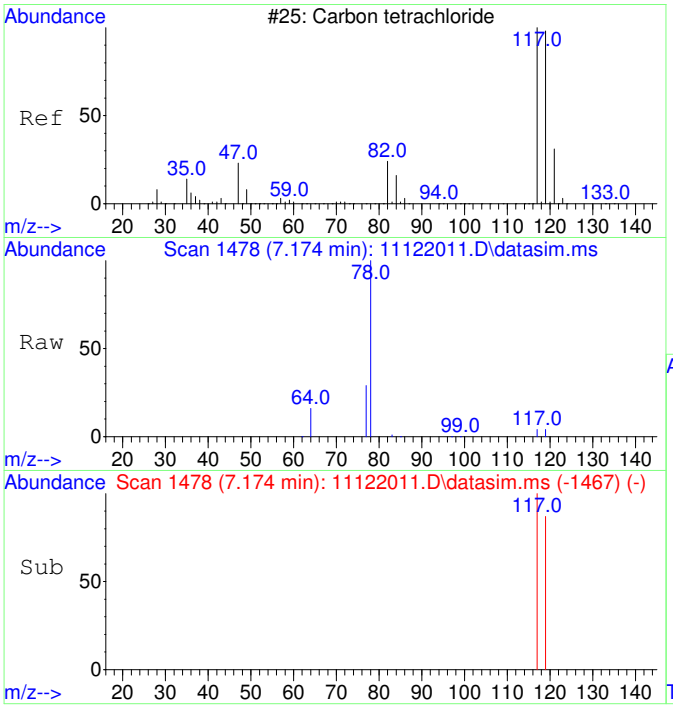


#7
1,1,1-Trichloroethane
Concen: 398.20 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 97 Resp: 14259

Ion	Ratio	Lower	Upper
97	100		
99	64.4	34.6	94.6
117	12.1	0.0	43.2

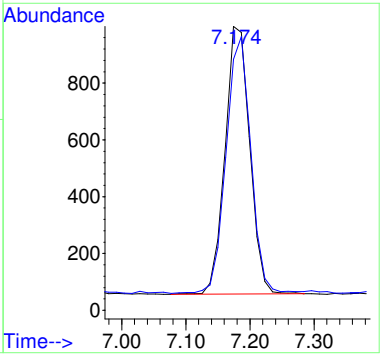


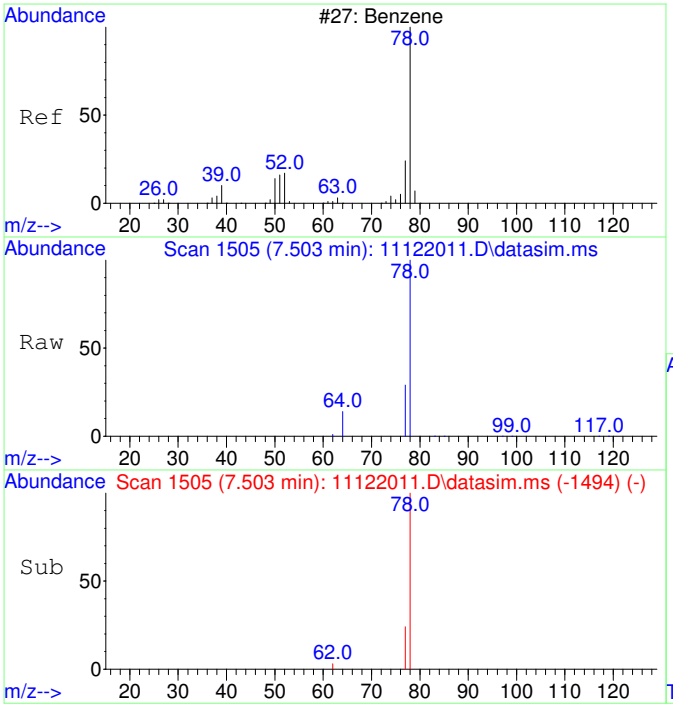


#8
Carbon tetrachloride
Concen: 74.86 ug/L
RT: 7.174 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:117 Resp: 2523

Ion	Ratio	Lower	Upper
117	100		
119	94.2	66.4	126.4

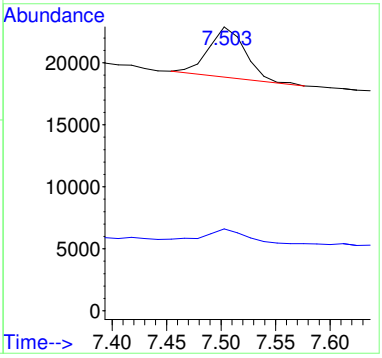


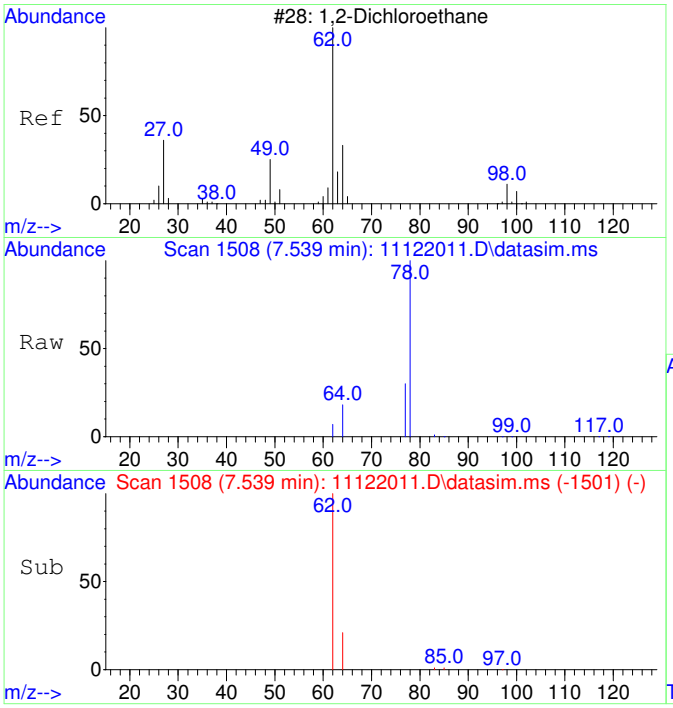


#9
Benzene
Concen: 101.26 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 78 Resp: 9143

Ion	Ratio	Lower	Upper
78	100		
77	43.9	0.0	53.2

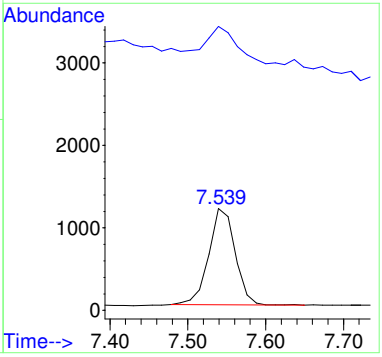


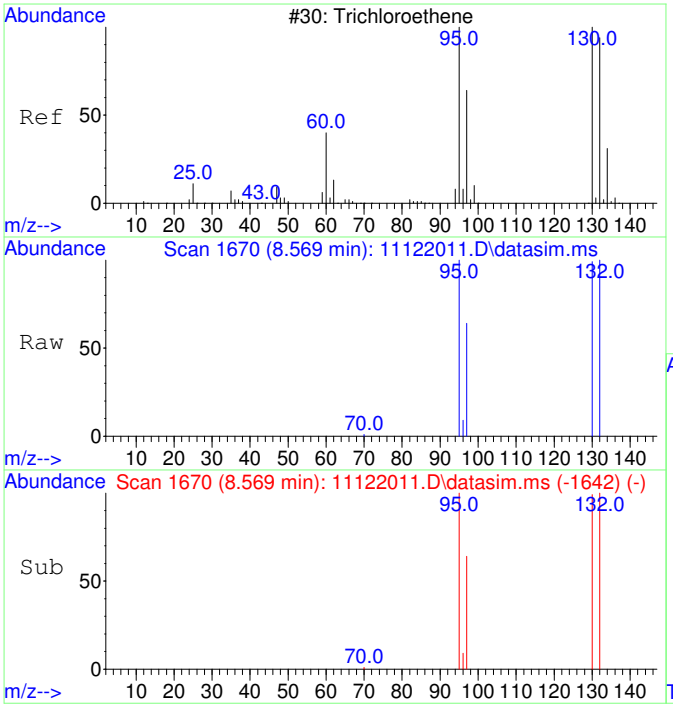


#10
1,2-Dichloroethane
Concen: 85.23 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 62 Resp: 2747

Ion	Ratio	Lower	Upper
62	100		
64	52.1	2.3	62.3

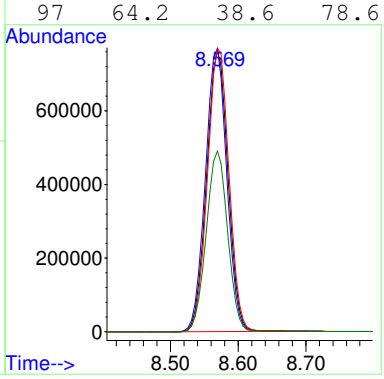


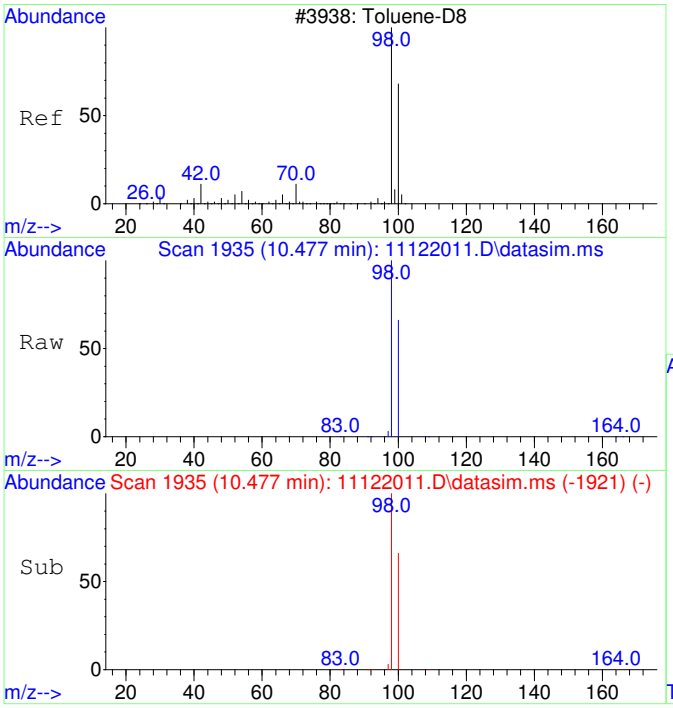


#11
Trichloroethene
Concen: 61779.80 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:130 Resp: 1679455

Ion	Ratio	Lower	Upper
130	100		
95	100.6	60.7	120.7
132	101.4	76.0	116.0
97	64.2	38.6	78.6

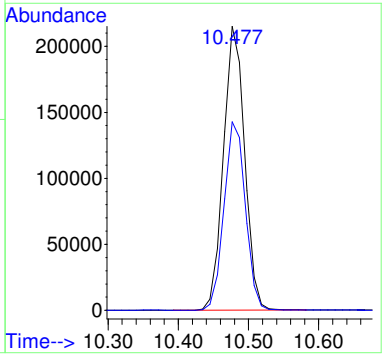


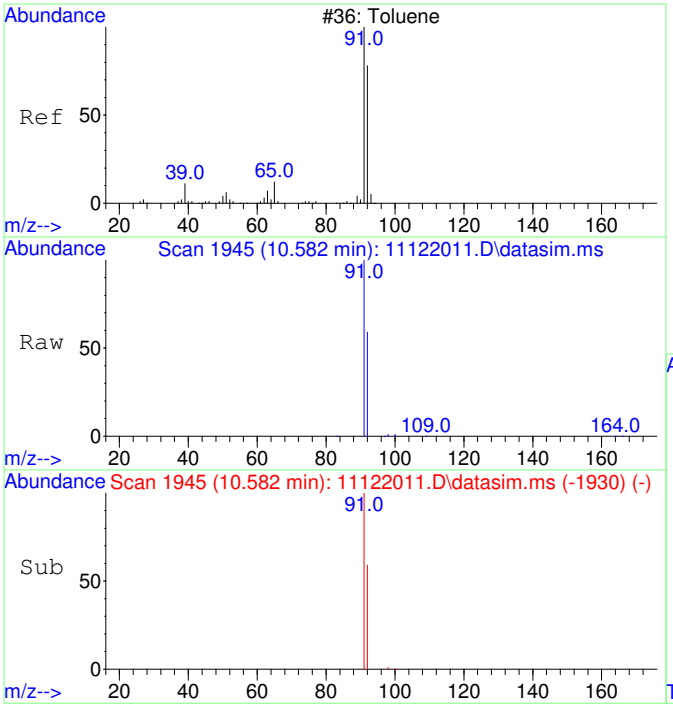


#12
Toluene-d8
Concen: 4327.41 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 98 Resp: 450169

Ion	Ratio	Lower	Upper
98	100		
100	66.9	37.1	97.1

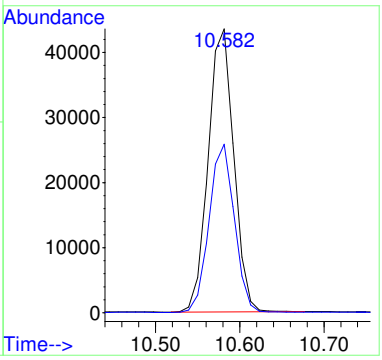


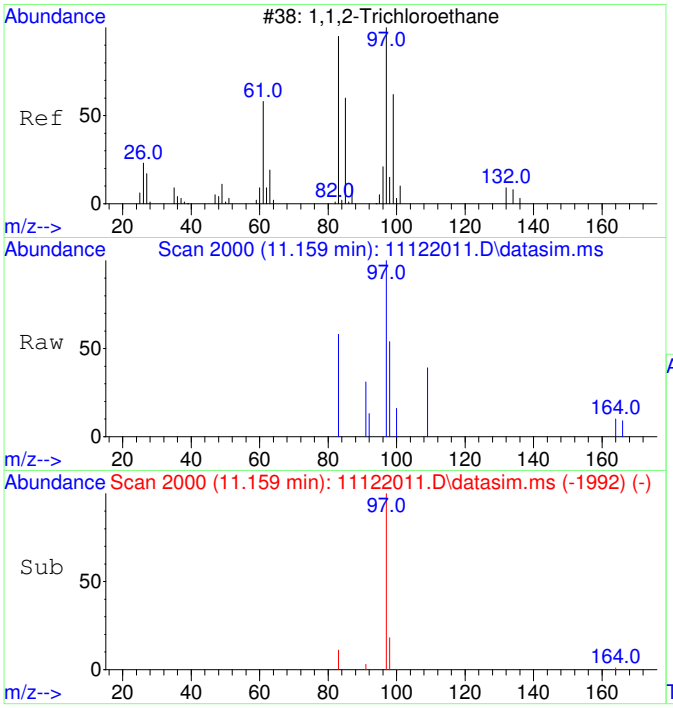


#13
Toluene
Concen: 692.20 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 91804

Ion	Ratio	Lower	Upper
91	100		
92	58.6	29.9	89.9

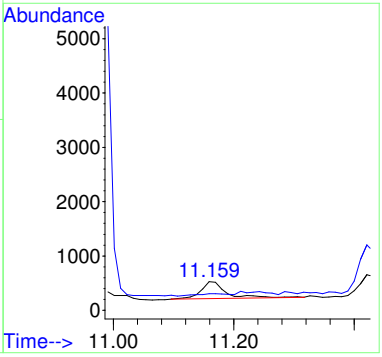


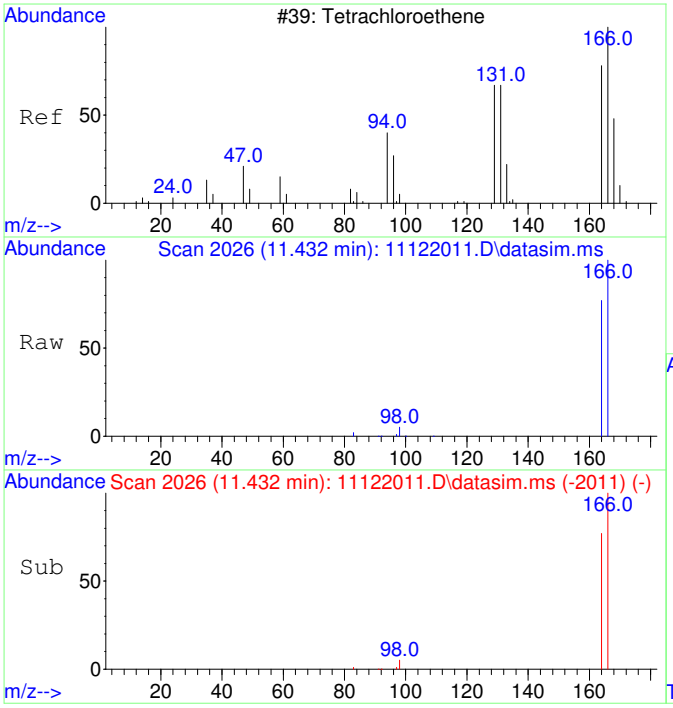


#14
1,1,2-Trichloroethane
Concen: 30.62 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 97 Resp: 885

Ion	Ratio	Lower	Upper
97	100		
83	16.0	51.2	111.2#

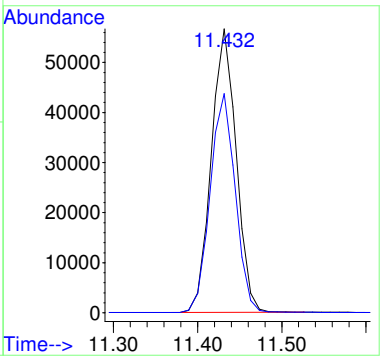


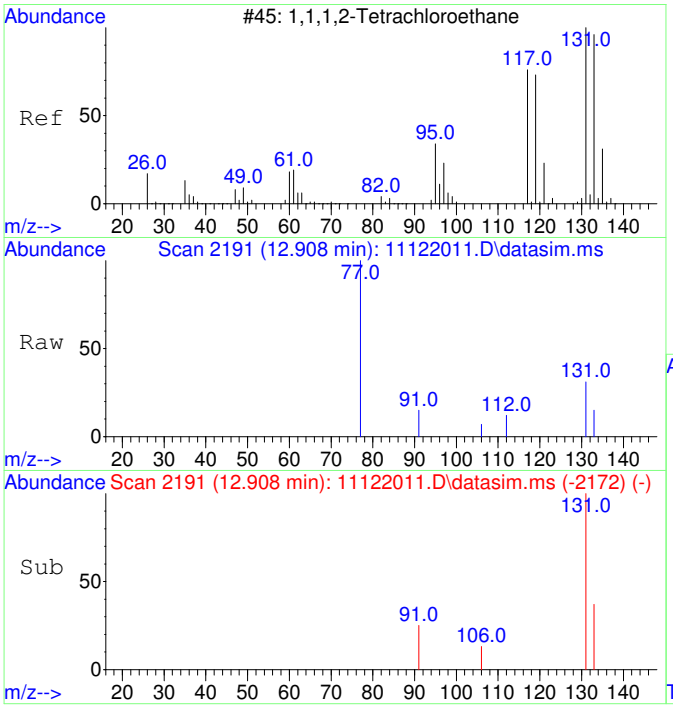


#15
Tetrachloroethene
Concen: 3029.84 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:166 Resp: 116290

Ion	Ratio	Lower	Upper
166	100		
164	77.8	47.8	107.8

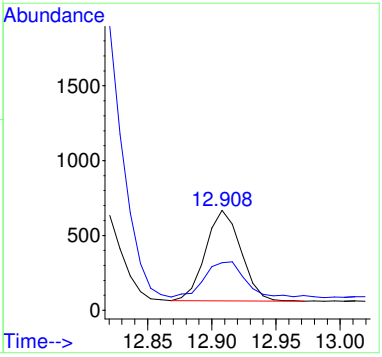


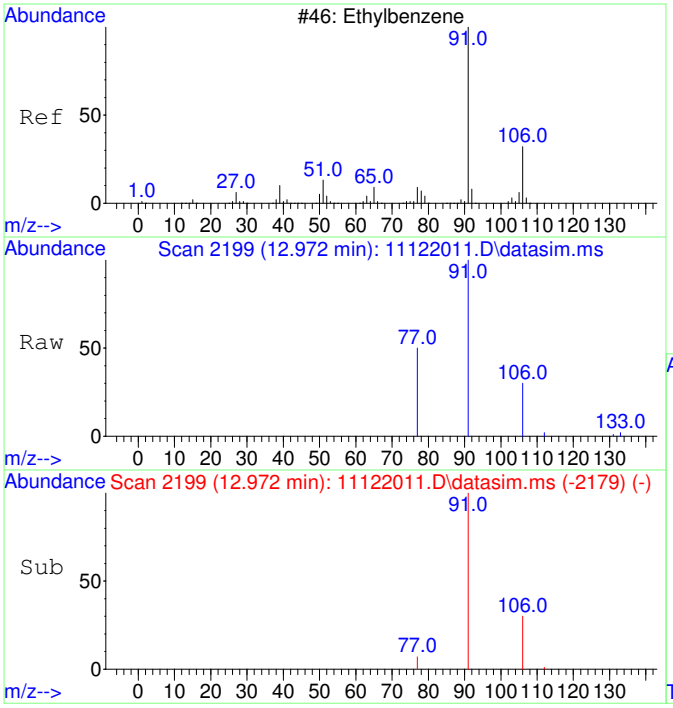


#17
1,1,1,2-Tetrachloroethane
Concen: 34.00 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:131 Resp: 1157

Ion	Ratio	Lower	Upper
131	100		
133	45.8	66.3	126.3#

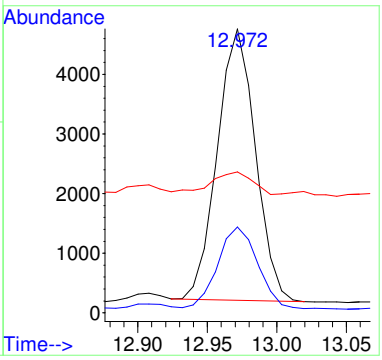


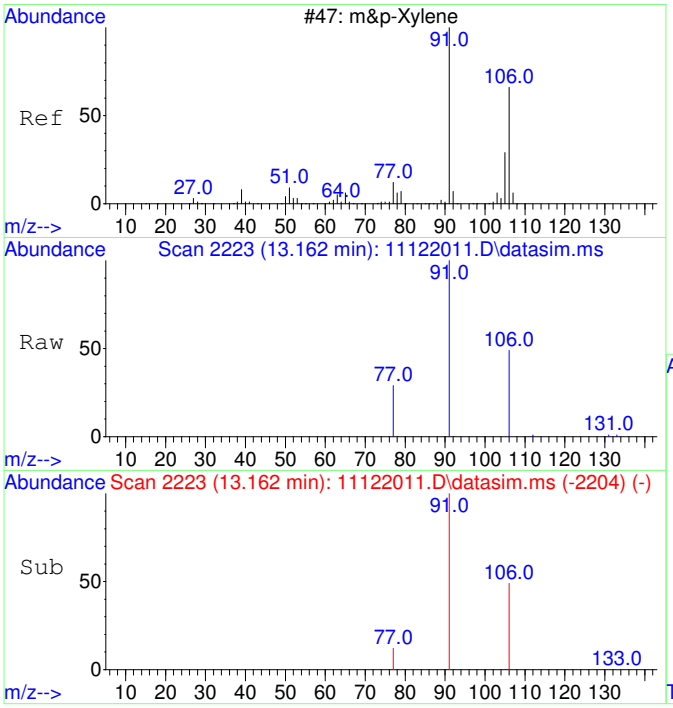


#18
Ethylbenzene
Concen: 53.71 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 8670

Ion	Ratio	Lower	Upper
91	100		
106	31.9	3.0	63.0
77	9.8	0.0	38.2

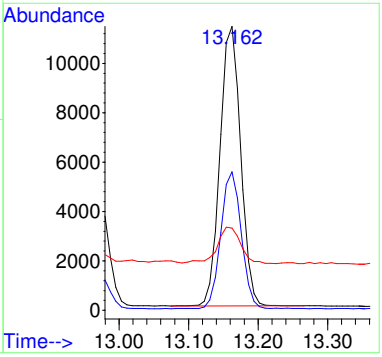


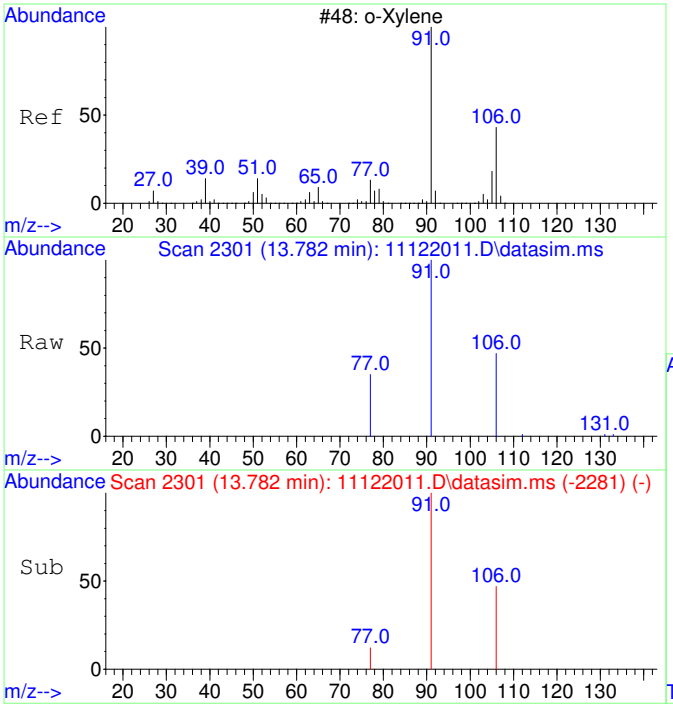


#19
m&p-Xylene
Concen: 185.57 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 23413

Ion	Ratio	Lower	Upper
91	100		
106	48.3	22.2	82.2
77	14.6	0.0	42.4

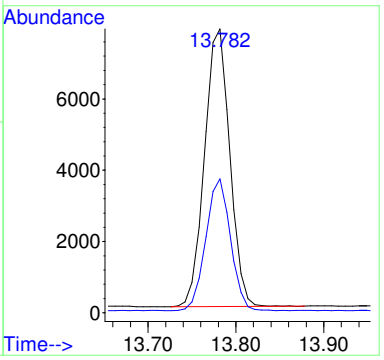


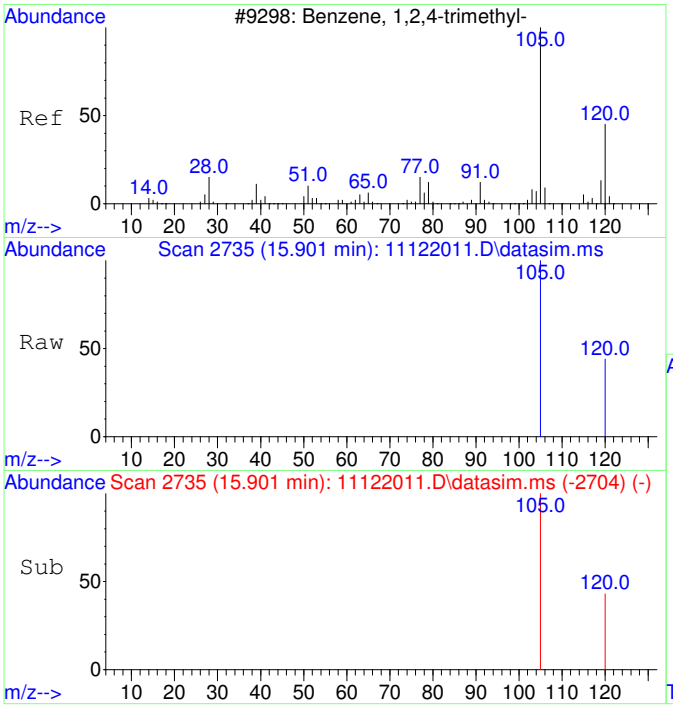


#20
o-Xylene
Concen: 115.69 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 15595

Ion	Ratio	Lower	Upper
91	100		
106	46.4	19.2	79.2

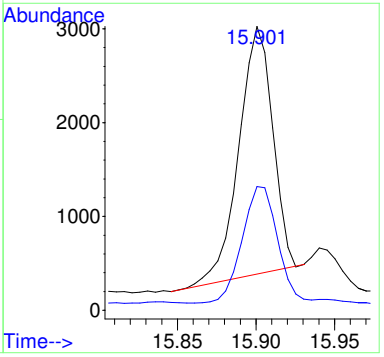


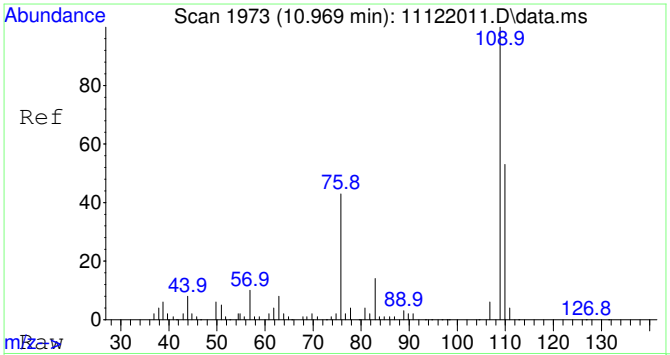


#23
1,2,4-Trimethylbenzene
Concen: 26.68 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:105 Resp: 3976

Ion	Ratio	Lower	Upper
105	100		
120	50.5	17.2	77.2

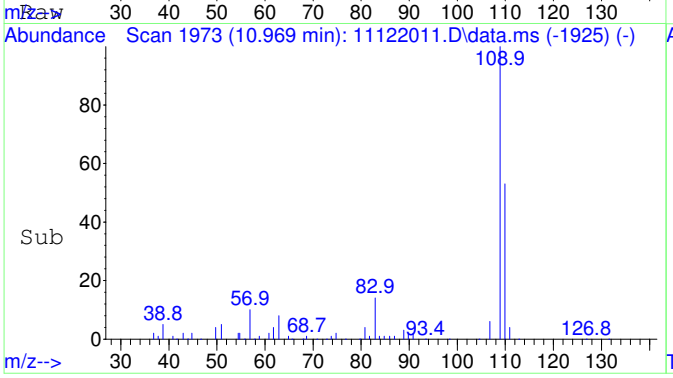


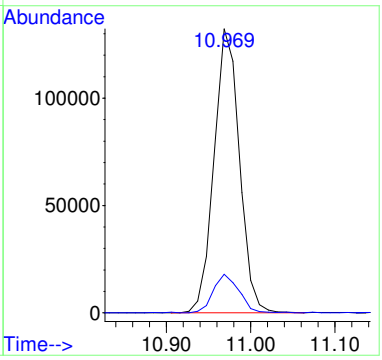


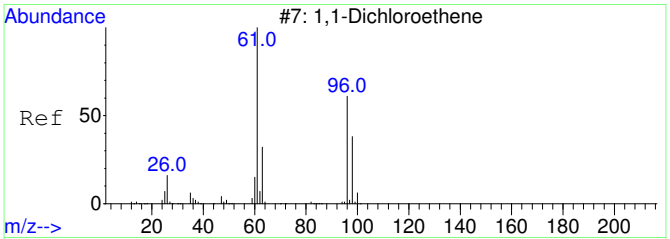
#25
2-Fluorotoluene SCAN
Concen: 5354.08 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:109 Resp: 277351

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	43.8



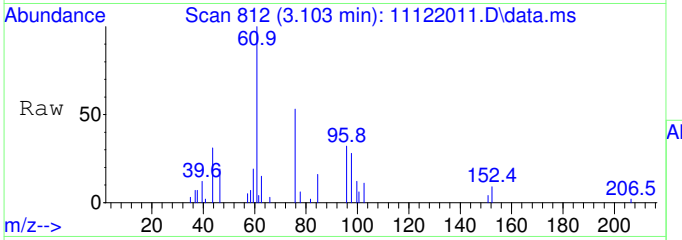


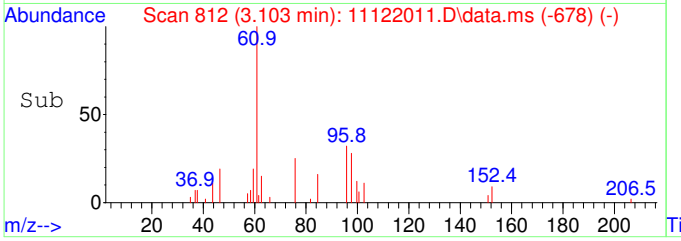


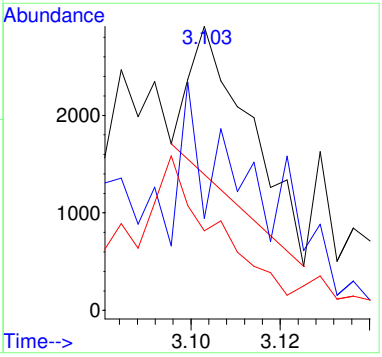
#26
1,1-Dichloroethene SCAN
Concen: 123.81 ug/L
RT: 3.103 min Scan# 812
Delta R.T. -0.004 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

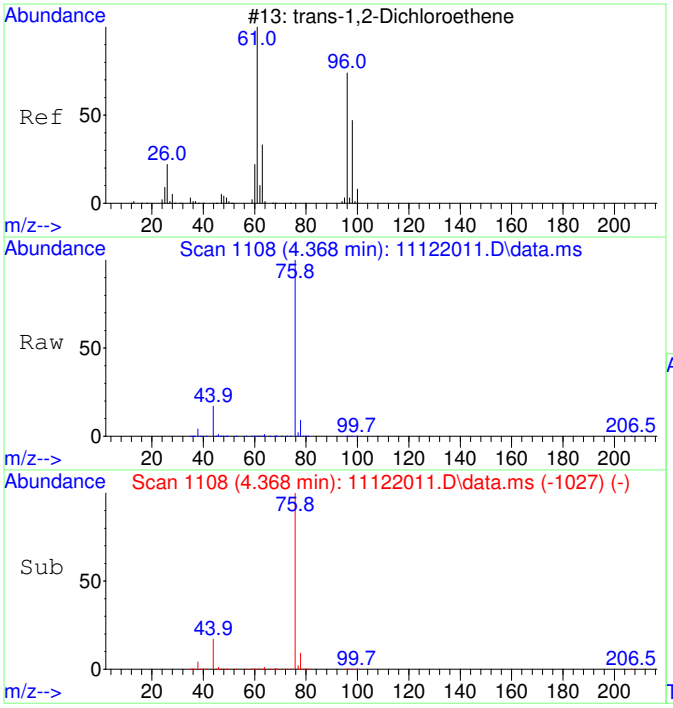
Tgt Ion: 61 Resp: 1362

Ion	Ratio	Lower	Upper
61	100		
96	126.7	33.1	93.1#
98	200.1	11.2	71.2#





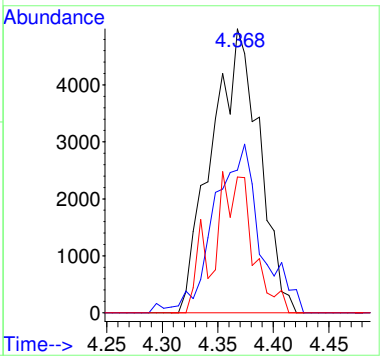


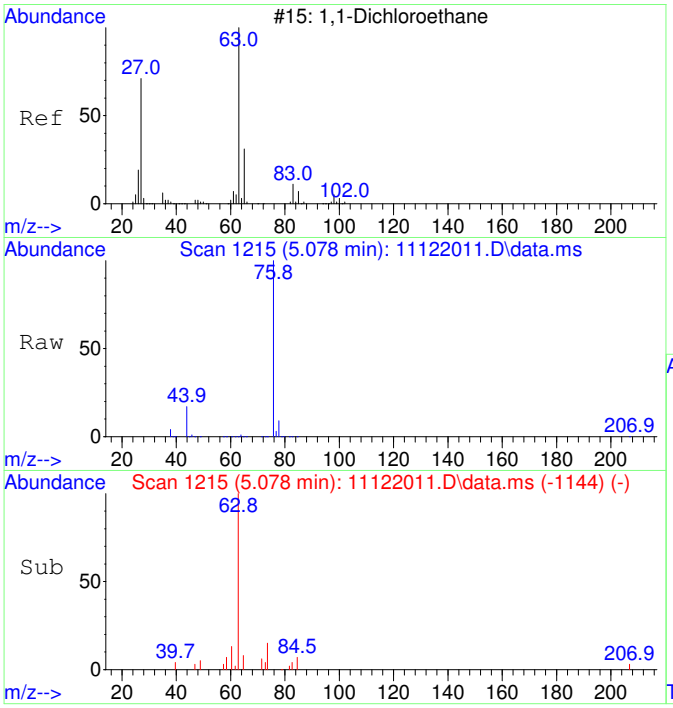


#27
trans-1,2-Dichloroethene SCAN
Concen: 1096.66 ug/L
RT: 4.368 min Scan# 1108
Delta R.T. -0.033 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 61 Resp: 14929

Ion	Ratio	Lower	Upper
61	100		
96	57.8	49.0	109.0
98	24.5	20.5	80.5

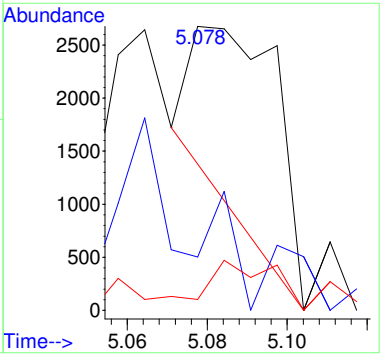


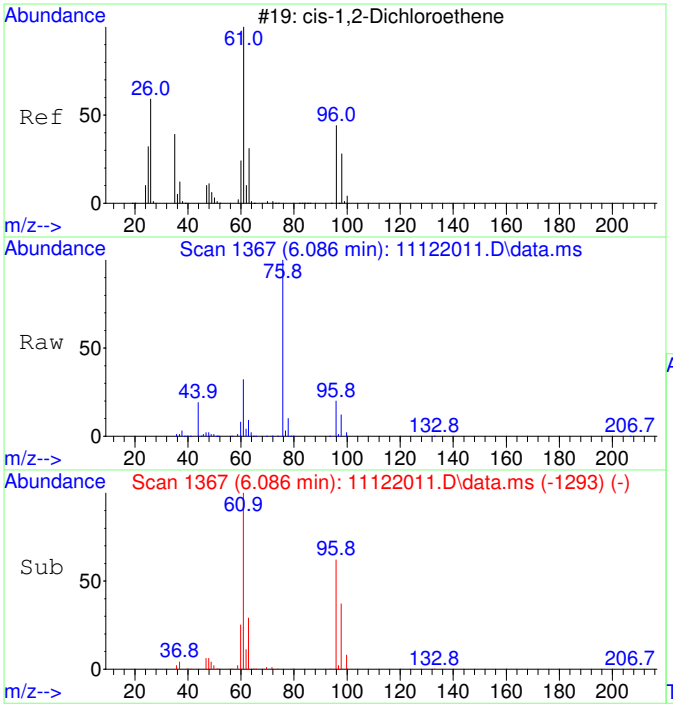


#28
1,1-Dichloroethane SCAN
Concen: 148.46 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. -0.027 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 63 Resp: 2339

Ion	Ratio	Lower	Upper
63	100		
65	0.0	1.3	61.3#
83	17.0	0.0	45.9

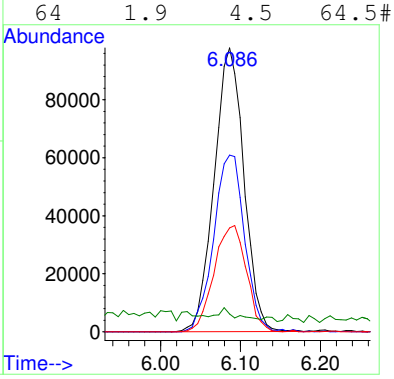


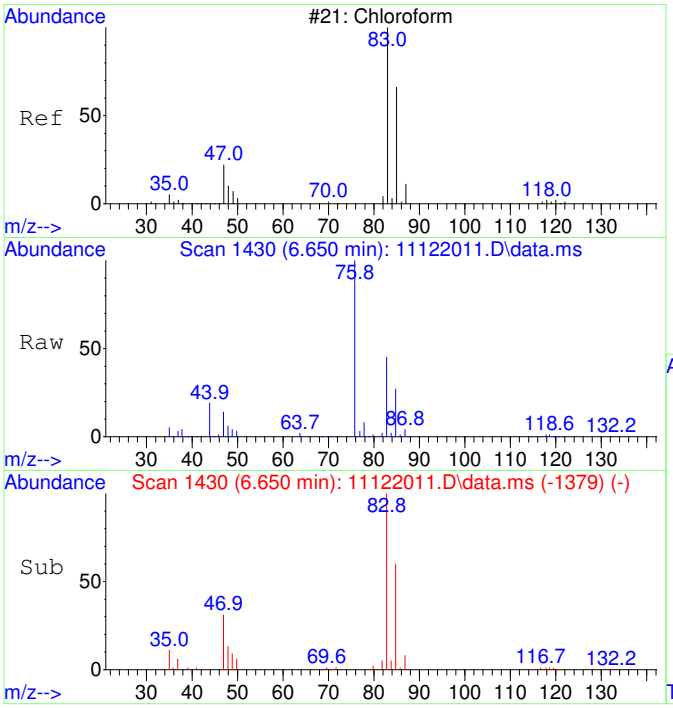


#29
cis-1,2-Dichloroethene SCAN
Concen: 14988.98 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 61 Resp: 253008

Ion	Ratio	Lower	Upper
61	100		
96	65.2	39.9	99.9
98	40.8	13.5	73.5
64	1.9	4.5	64.5#

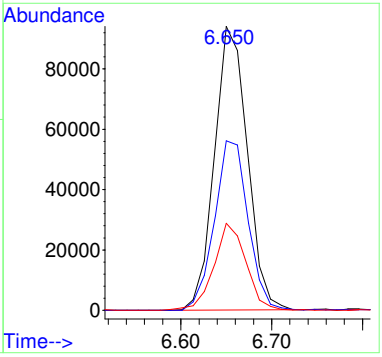


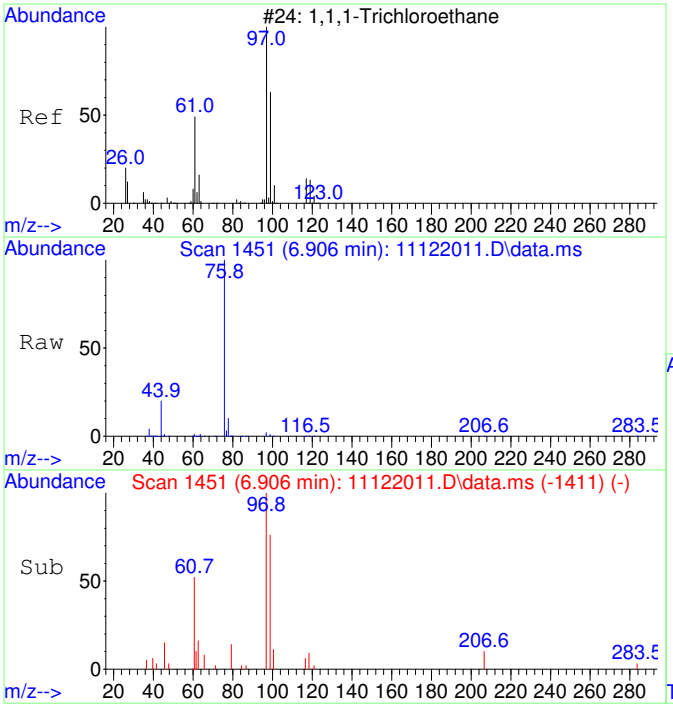


#30
Chloroform SCAN
Concen: 12918.25 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 83 Resp: 236511

Ion	Ratio	Lower	Upper
83	100		
85	61.8	34.6	94.6
47	30.1	0.0	53.4

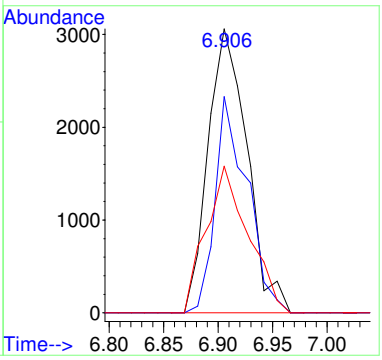


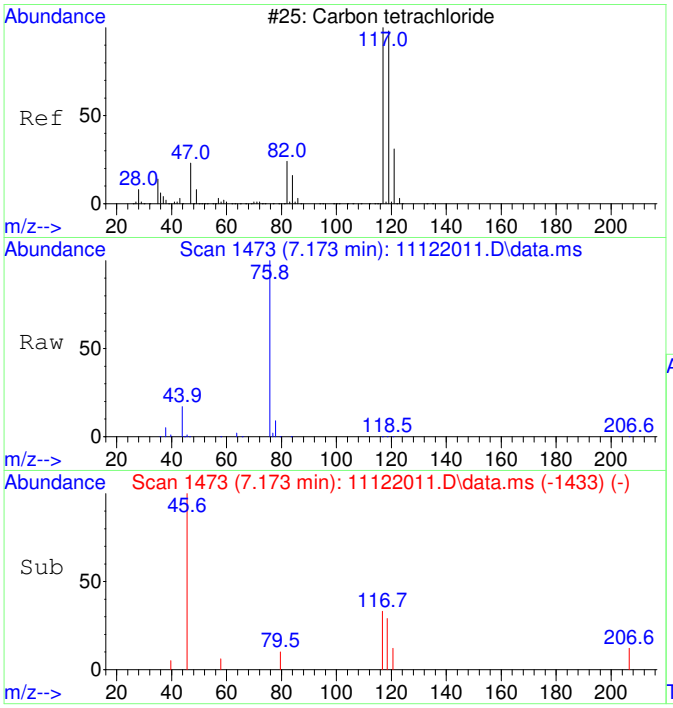


#31
1,1,1-Trichloroethane SCAN
Concen: 457.38 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 97 Resp: 7631

Ion	Ratio	Lower	Upper
97	100		
99	62.7	43.6	103.6
61	55.9	18.0	78.0

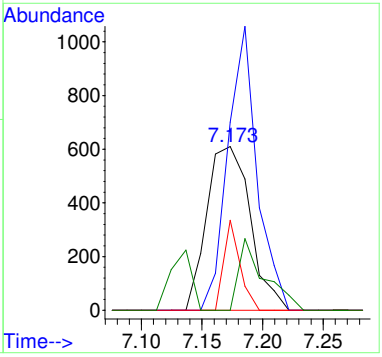


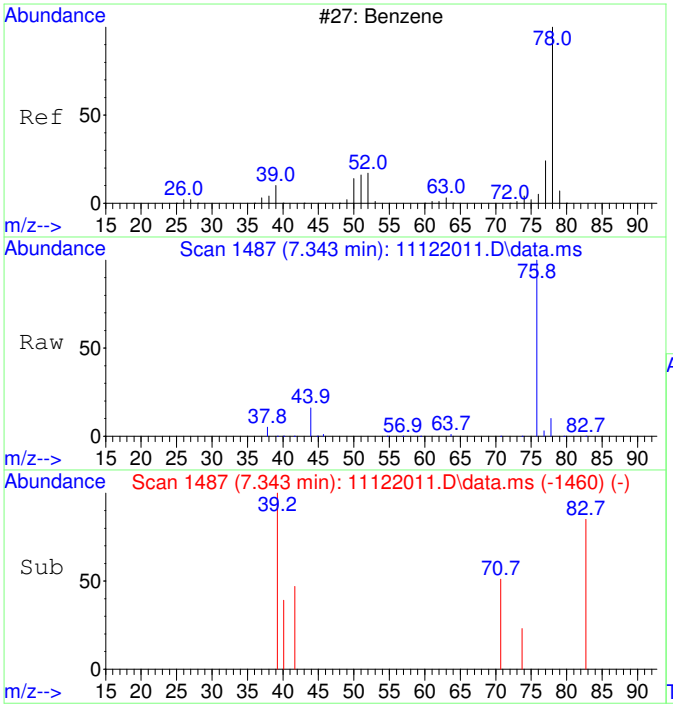


#32
Carbon tetrachloride SCAN
Concen: 87.91 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:117 Resp: 1530

Ion	Ratio	Lower	Upper
117	100		
119	116.7	75.5	135.5
121	20.3	0.0	58.8
82	26.2	0.0	59.2

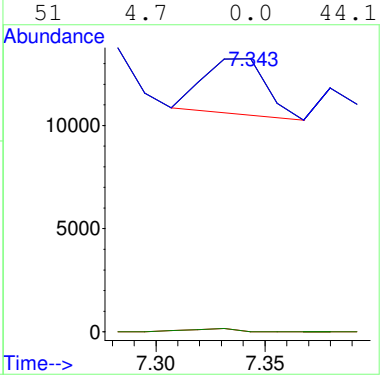


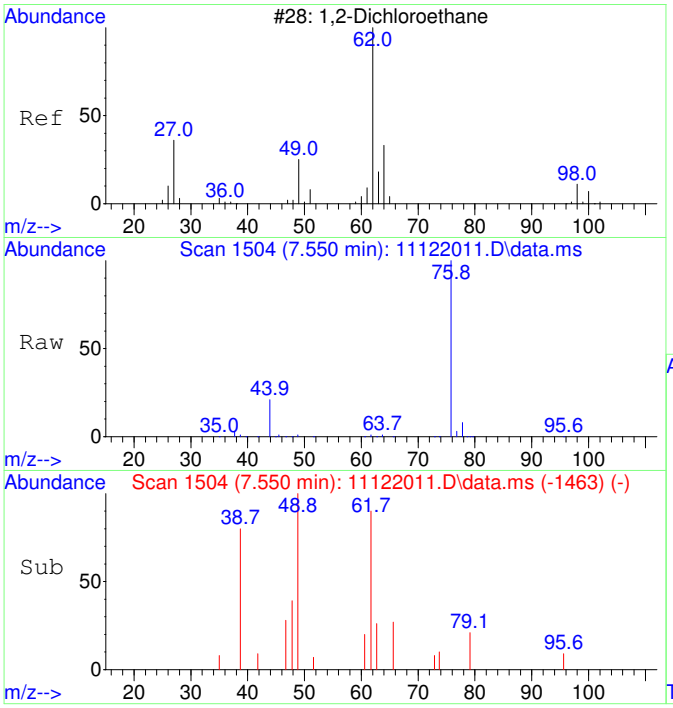


#33
Benzene SCAN
Concen: 112.68 ug/L
RT: 7.343 min Scan# 1487
Delta R.T. -0.171 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 78 Resp: 5176

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	4.7	0.0	47.9
51	4.7	0.0	44.1

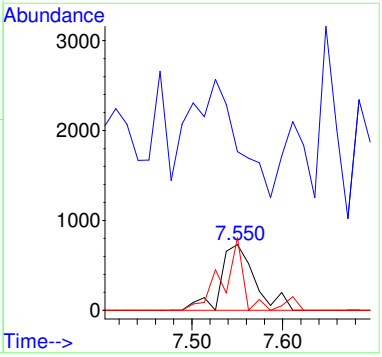


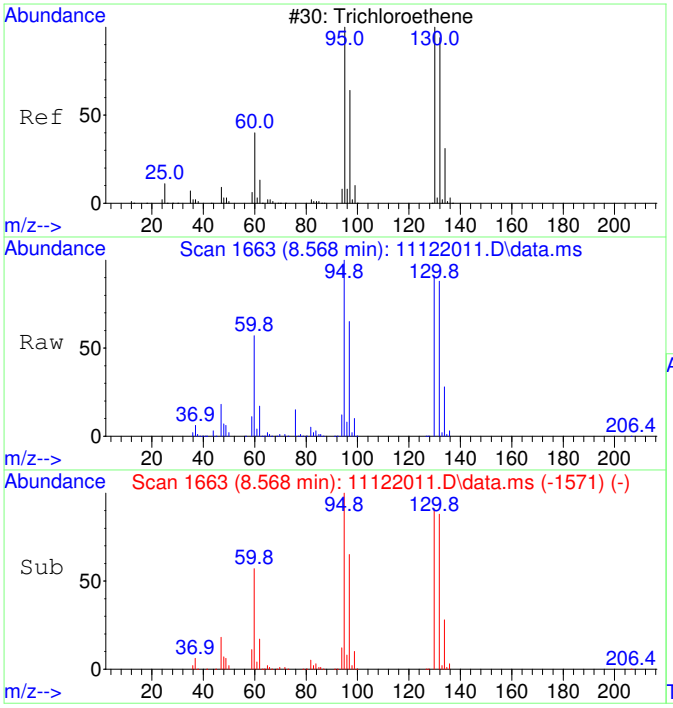


#34
1,2-Dichloroethane SCAN
Concen: 111.89 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 62 Resp: 1898

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	66.6	3.9	63.9#

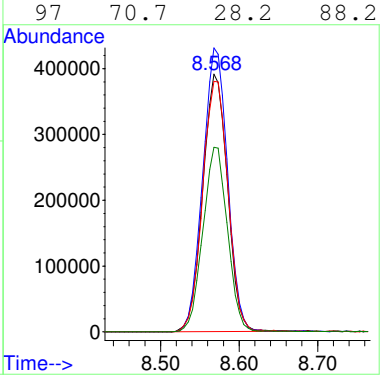


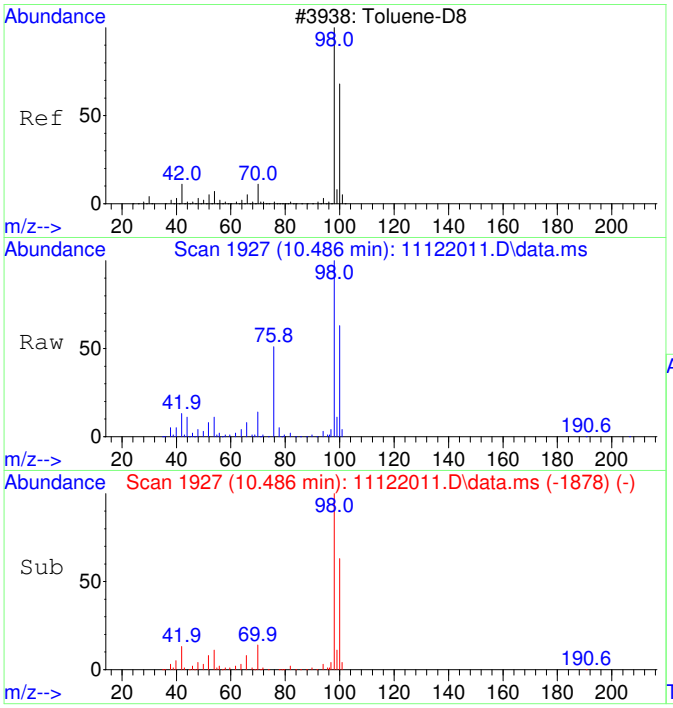


#35
Trichloroethene SCAN
Concen: 67728.54 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:130 Resp: 854996

Ion	Ratio	Lower	Upper
130	100		
95	110.9	60.5	120.5
132	99.8	59.6	119.6
97	70.7	28.2	88.2

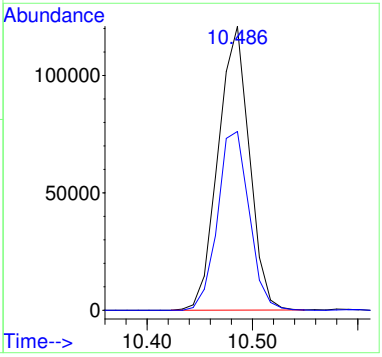


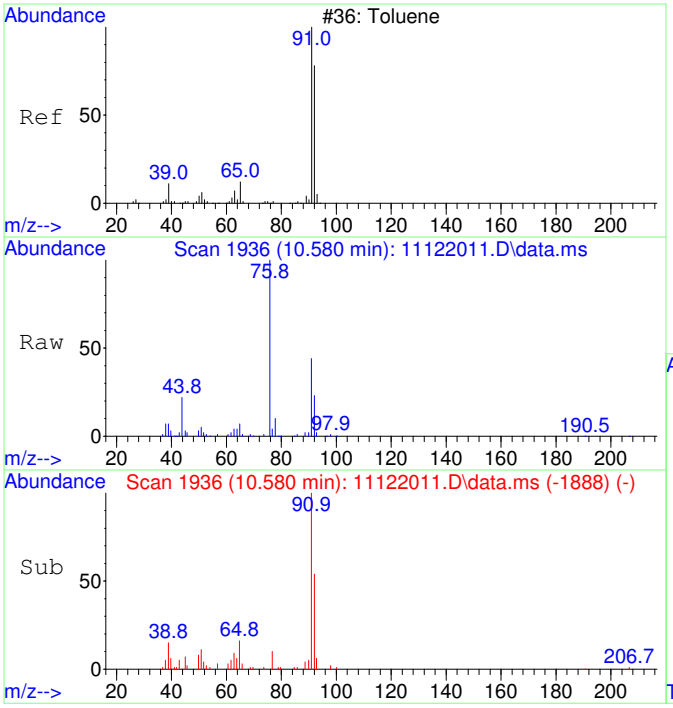


#36
Toluene-d8 SCAN
Concen: 4919.72 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 98 Resp: 249236

Ion	Ratio	Lower	Upper
98	100		
100	64.0	40.0	100.0

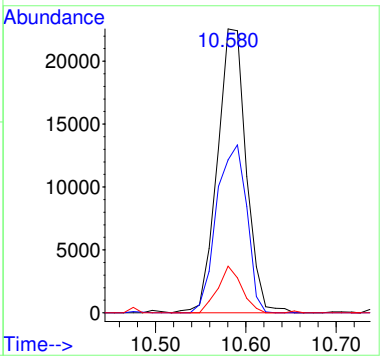


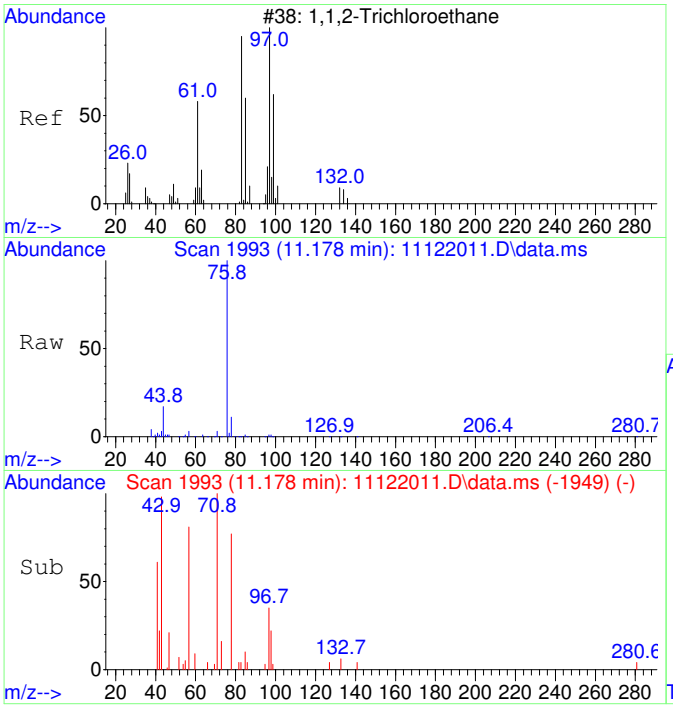


#37
Toluene SCAN
Concen: 776.30 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 50365

Ion	Ratio	Lower	Upper
91	100		
92	61.7	28.3	88.3
65	13.7	0.0	41.0

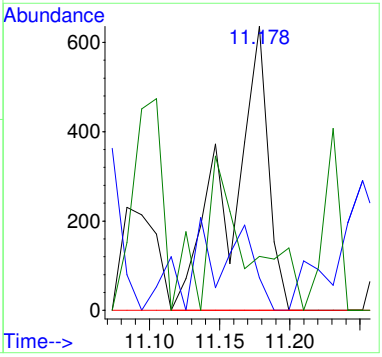


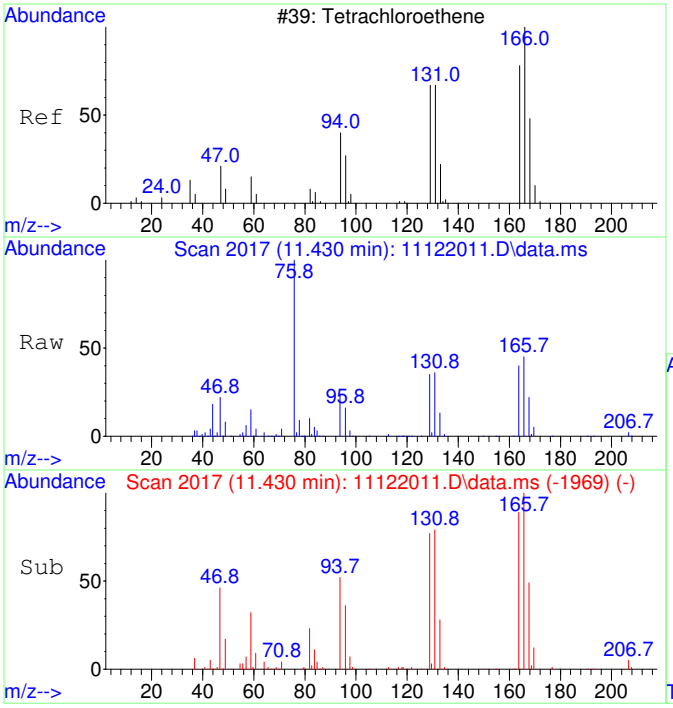


#38
1,1,2-Trichloroethane SCAN
Concen: 82.27 ug/L
RT: 11.178 min Scan# 1993
Delta R.T. -0.042 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 97 Resp: 1198

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#

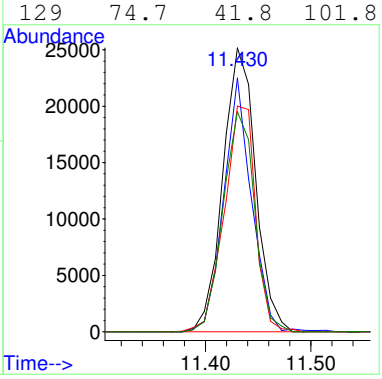


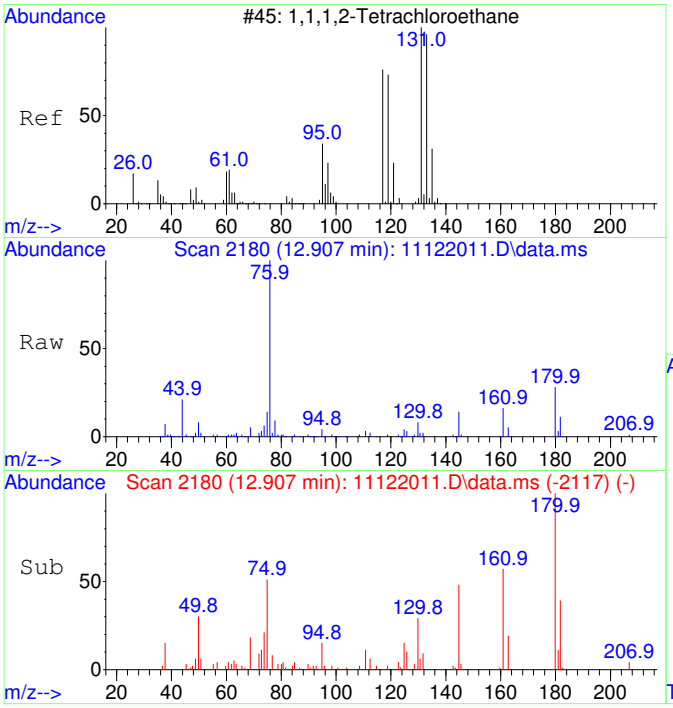


#39
Tetrachloroethene SCAN
Concen: 3491.60 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:166 Resp: 54423

Ion	Ratio	Lower	Upper
166	100		
164	76.5	50.9	110.9
131	76.2	38.7	98.7
129	74.7	41.8	101.8

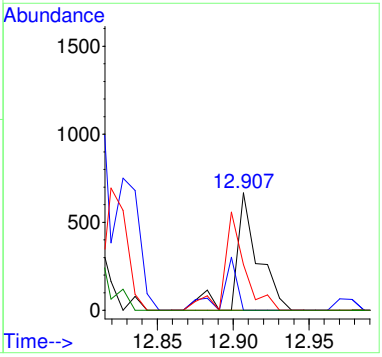


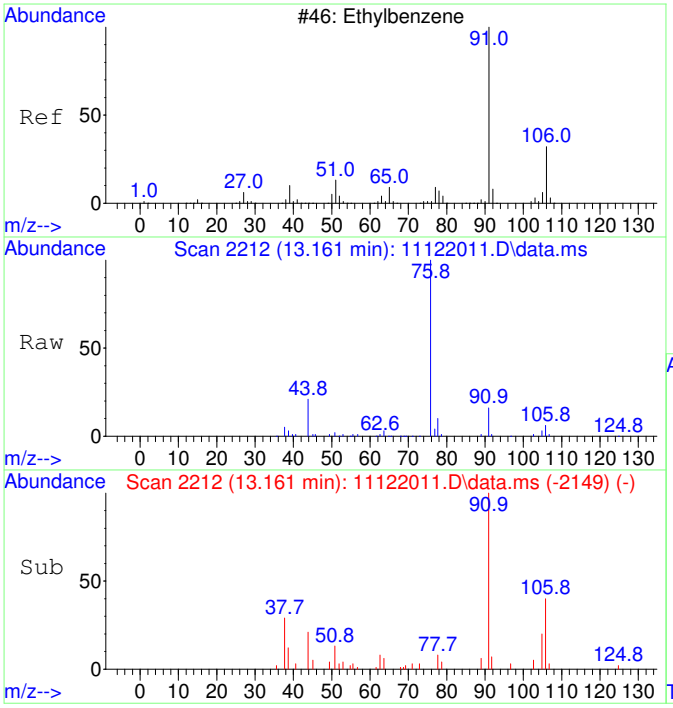


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 41.69 ug/L
RT: 12.907 min Scan# 2180
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:131 Resp: 684

Ion	Ratio	Lower	Upper
131	100		
133	30.0	66.9	126.9#
119	76.6	40.4	100.4
117	0.0	35.1	95.1#

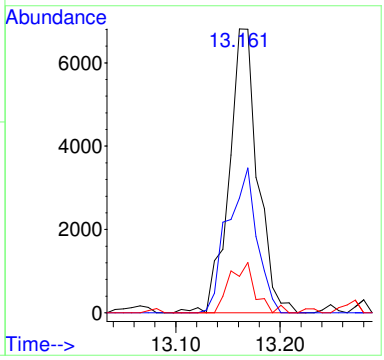


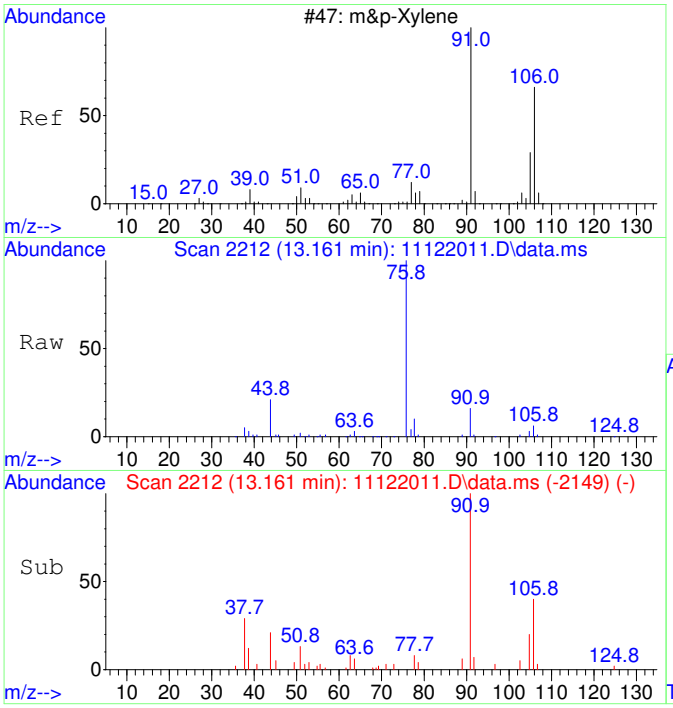


#42
Ethylbenzene SCAN
Concen: 110.04 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 13007

Ion	Ratio	Lower	Upper
91	100		
106	52.6	23.1	83.1
51	15.8	0.0	40.1

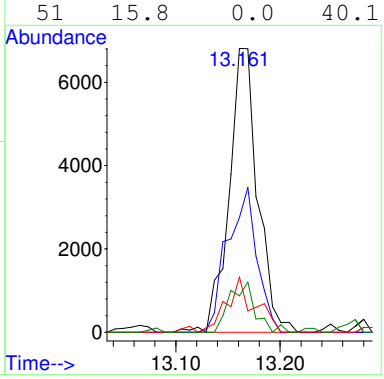


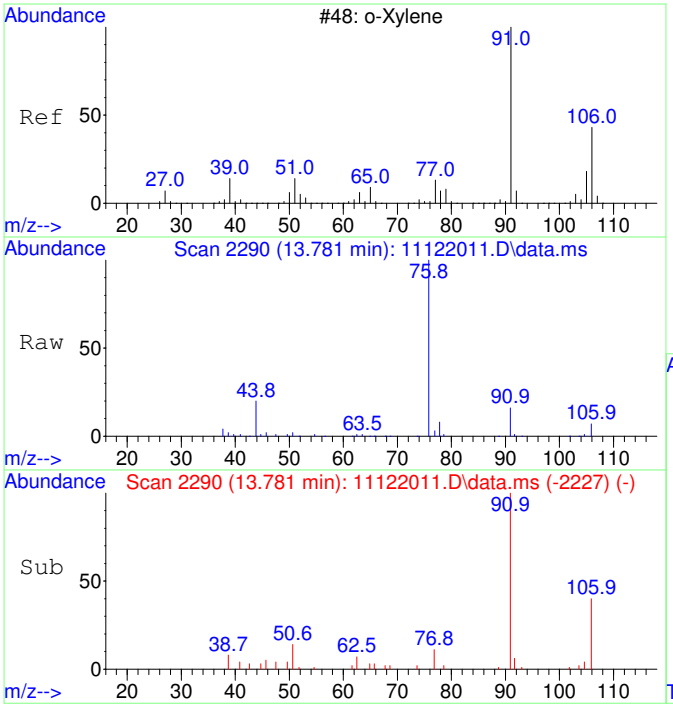


#43
m&p-Xylene SCAN
Concen: 110.04 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 13007

Ion	Ratio	Lower	Upper
91	100		
106	52.6	23.1	83.1
105	18.7	0.0	54.7
51	15.8	0.0	40.1

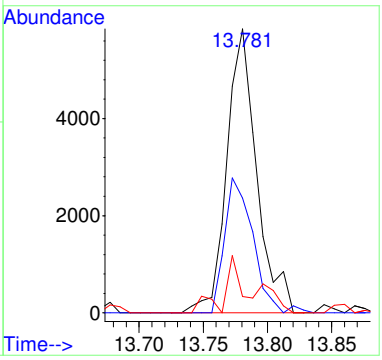


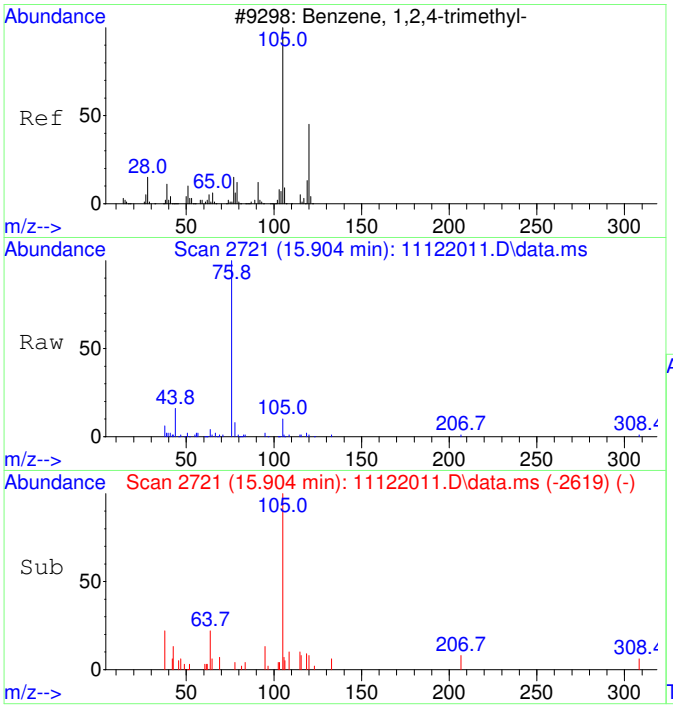


#44
o-Xylene SCAN
Concen: 149.32 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 9447

Ion	Ratio	Lower	Upper
91	100		
106	45.1	18.0	78.0
105	6.9	0.0	56.6

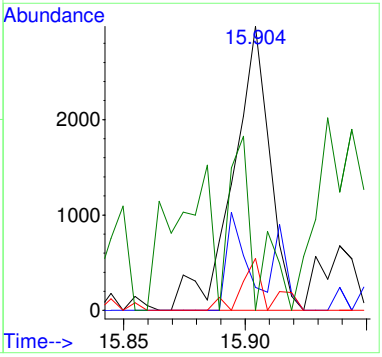




#47
1,2,4-Trimethylbenzene SCAN
Concen: 46.02 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:105 Resp: 3140

Ion	Ratio	Lower	Upper
105	100		
120	15.7	16.9	76.9#
119	13.0	0.0	41.9
77	44.0	0.0	42.3#



Quantitation Report (QT Reviewed)

Table of Contents

M.I. Performed By:
TD at 1:52 pm, Nov 12, 2020

M.I. Approved By:
ZR at 2:18 pm, Nov 23, 2020

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122011.D
Acq On : 12 Nov 2020 12:25
InstName : AG5975C
Operator : TD
Sample : 2011015-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 12 12:43:57 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

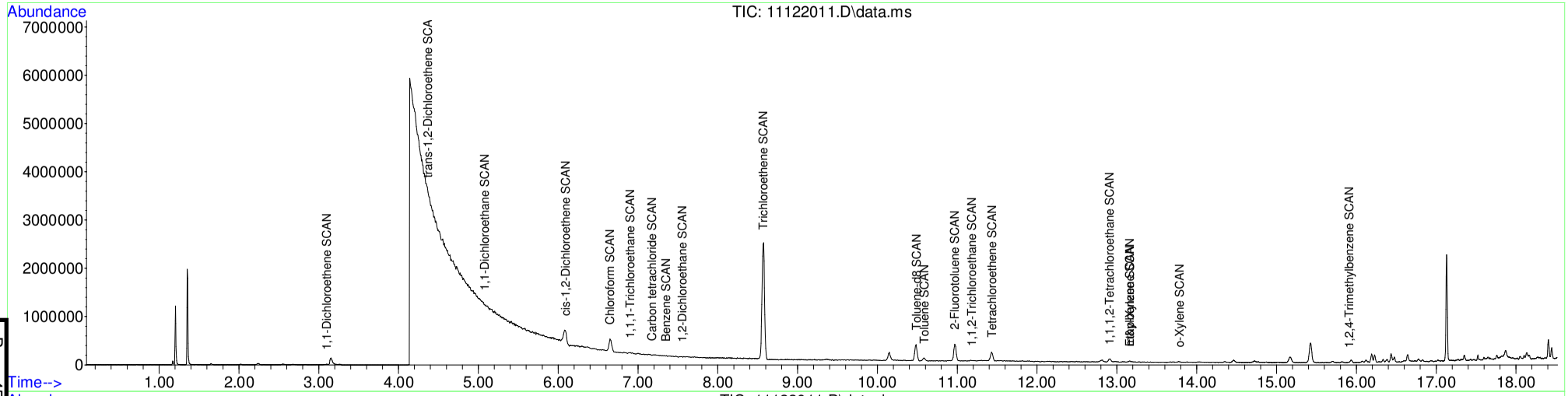
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	531401	5000.00 ug/L		0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	450169	4327.41 ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.55%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.093	61	14054m	662.31 ug/L		
3] trans-1,2-Dichloroethene	4.362	61	24209	987.45 ug/L		98
4] 1,1-Dichloroethane	5.079	63	13561	444.35 ug/L		97
5] cis-1,2-Dichloroethene	6.081	61	429186	13322.83 ug/L		99
6] Chloroform	6.651	83	405229	12289.87 ug/L		100
7] 1,1,1-Trichloroethane	6.907	97	14259	398.20 ug/L		99
8] Carbon tetrachloride	7.174	117	2523	74.86 ug/L		98
9] Benzene	7.503	78	9143	101.26 ug/L		57
10] 1,2-Dichloroethane	7.539	62	2747	85.23 ug/L		65
11] Trichloroethene	8.569	130	1679455	61779.80 ug/L	oc	92
13] Toluene	10.582	91	91804	692.20 ug/L		98
14] 1,1,2-Trichloroethane	11.159	97	885	30.62 ug/L #		27
15] Tetrachloroethene	11.432	166	116290	3029.84 ug/L		100
17] 1,1,1,2-Tetrachloroethane	12.908	131	1157	34.00 ug/L #		48
18] Ethylbenzene	12.972	91	8670	53.71 ug/L		98
19] m&p-Xylene	13.162	91	23413	185.57 ug/L		94
20] o-Xylene	13.782	91	15595	115.69 ug/L		96
23] 1,2,4-Trimethylbenzene	15.901	105	3976	26.68 ug/L		95
25) 2-Fluorotoluene SCAN	10.969	109	277351	5354.08 ug/L		100
26) 1,1-Dichloroethene SCAN	3.103	61	1362	123.81 ug/L #		1
27) trans-1,2-Dichloroethe...	4.368	61	14929	1096.66 ug/L		71
28) 1,1-Dichloroethane SCAN	5.078	63	2339	148.46 ug/L #		62
29) cis-1,2-Dichloroethene...	6.086	61	253008	14988.98 ug/L #		83
30) Chloroform SCAN	6.650	83	236511	12918.25 ug/L		94
31) 1,1,1-Trichloroethane ...	6.906	97	7631	457.38 ug/L		88
32) Carbon tetrachloride SCAN	7.173	117	1530	87.91 ug/L		89
33) Benzene SCAN	7.343	78	5176	112.68 ug/L		93
34) 1,2-Dichloroethane SCAN	7.550	62	1898	111.89 ug/L #		41
35) Trichloroethene SCAN	8.568	130	854996	67728.54 ug/L		84
36) Toluene-d8 SCAN	10.486	98	249236	4919.72 ug/L		93
37) Toluene SCAN	10.580	91	50365	776.30 ug/L		95
38) 1,1,2-Trichloroethane ...	11.178	97	1198	82.27 ug/L #		13
39) Tetrachloroethene SCAN	11.430	166	54423	3491.60 ug/L		94
41) 1,1,1,2-Tetrachloroeth...	12.907	131	684	41.69 ug/L #		46
42) Ethylbenzene SCAN	13.161	91	13007	110.04 ug/L		97
43) m&p-Xylene SCAN	13.161	91	13007	110.04 ug/L		94
44) o-Xylene SCAN	13.781	91	9447	149.32 ug/L		84
47) 1,2,4-Trimethylbenzene...	15.904	105	3140	46.02 ug/L #		55

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122011.D
Acq On : 12 Nov 2020 12:25
InstName : AG5975C
Operator : TD
Sample : 2011015-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 12 12:43:57 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



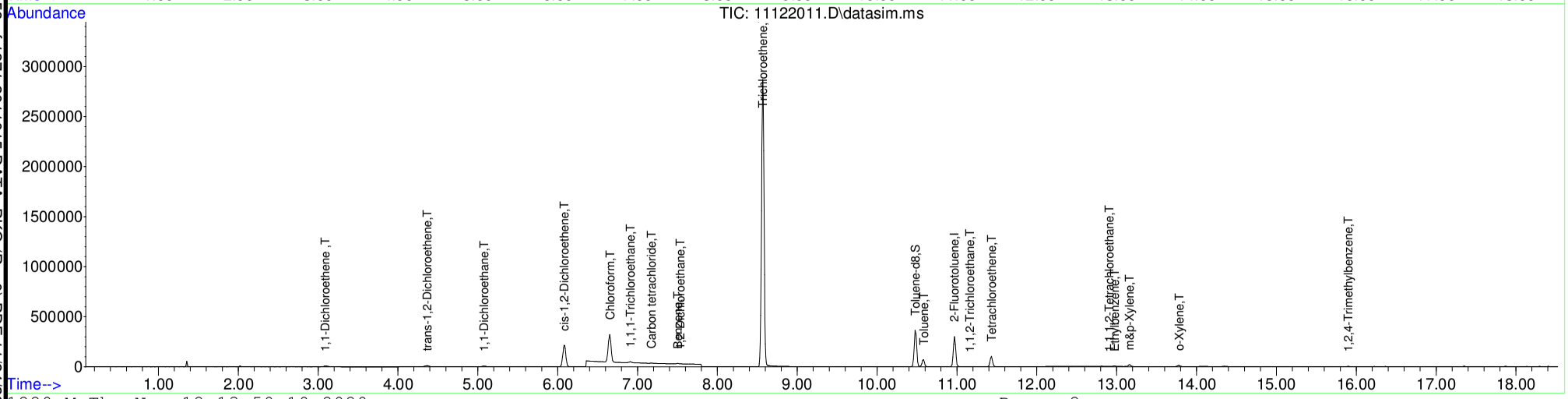
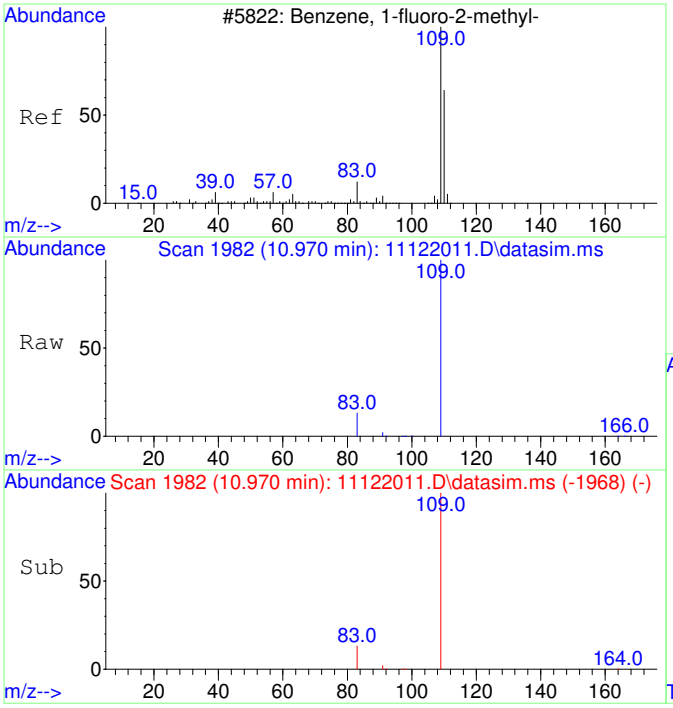


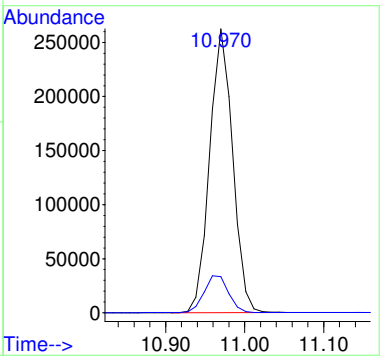
Table of Contents

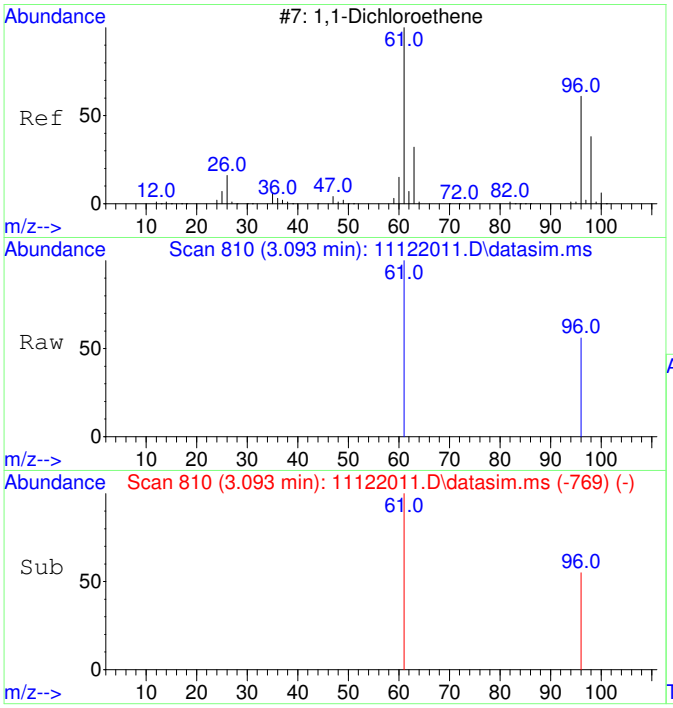


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:109 Resp: 531401

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	42.3

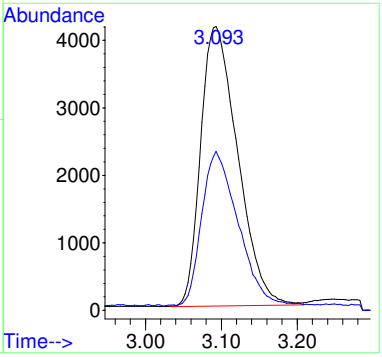


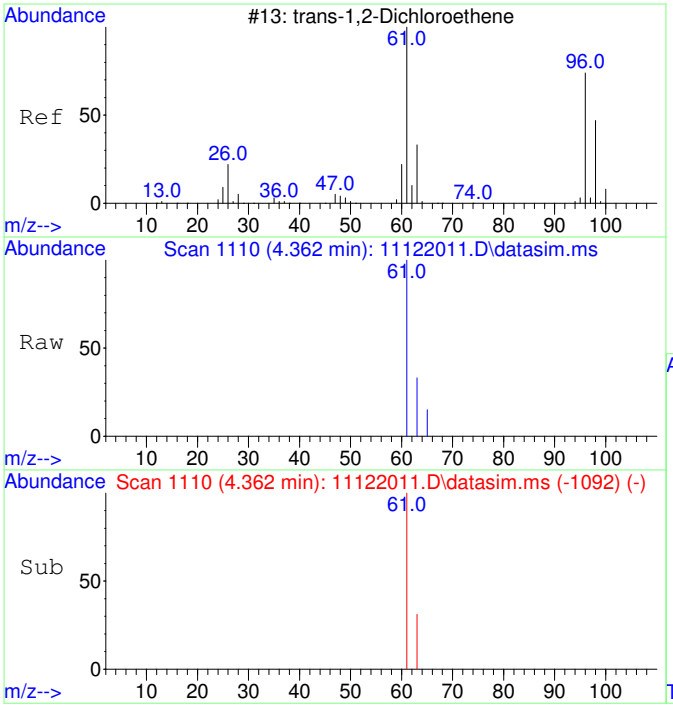


#2
1,1-Dichloroethene
Concen: 662.31 ug/L m
RT: 3.093 min Scan# 810
Delta R.T. 0.003 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 61 Resp: 14054

Ion	Ratio	Lower	Upper
61	100		
96	53.8	37.2	97.2

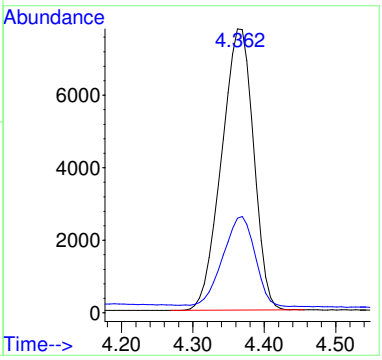


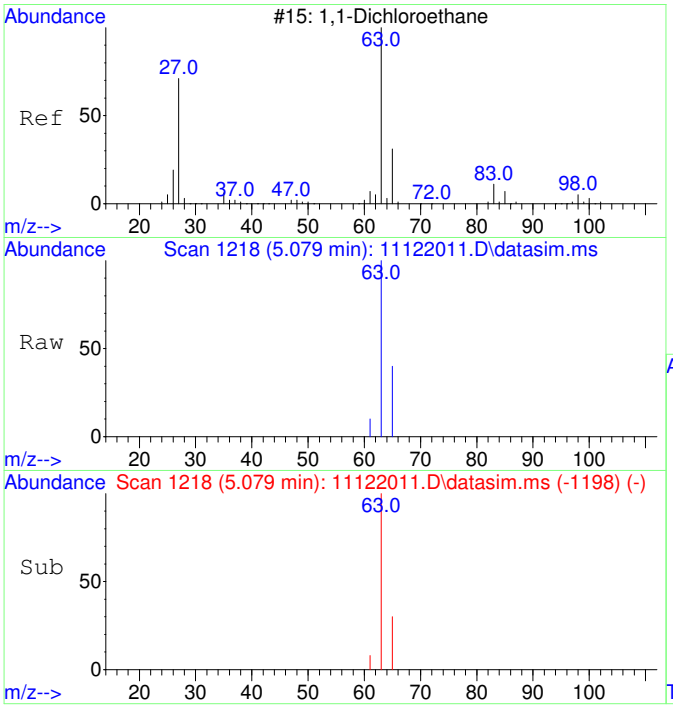


#3
trans-1,2-Dichloroethene
Concen: 987.45 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. -0.033 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 61 Resp: 24209

Ion	Ratio	Lower	Upper
61	100		
63	33.3	2.4	62.4

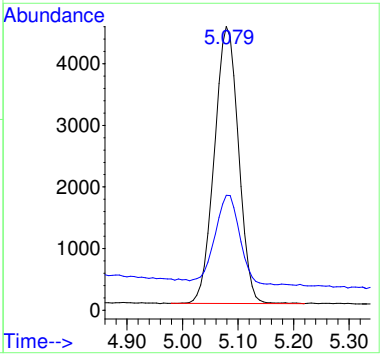


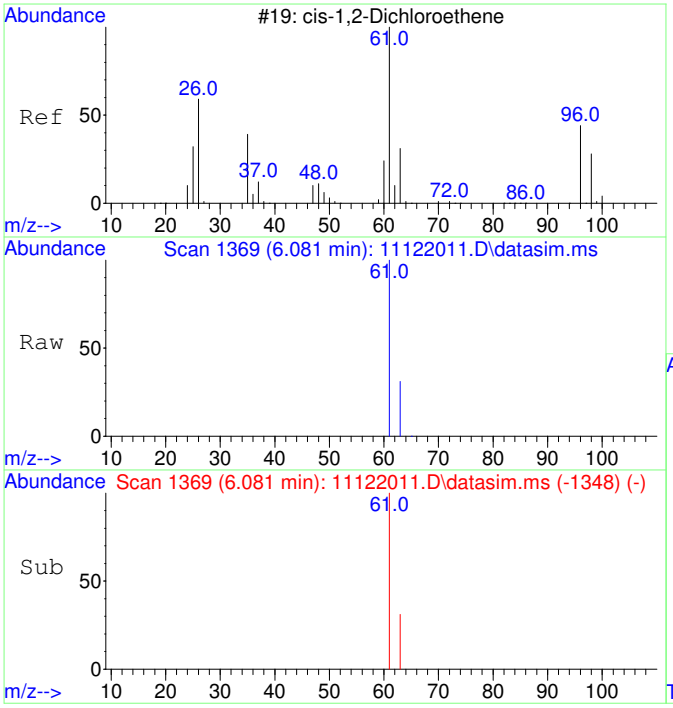


#4
1,1-Dichloroethane
Concen: 444.35 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 63 Resp: 13561

Ion	Ratio	Lower	Upper
63	100		
65	33.7	1.8	61.8

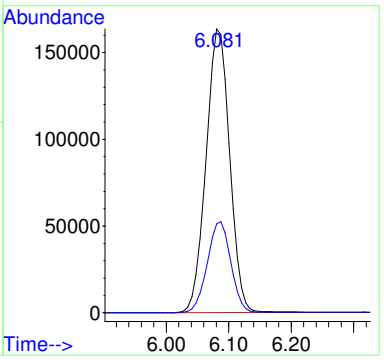


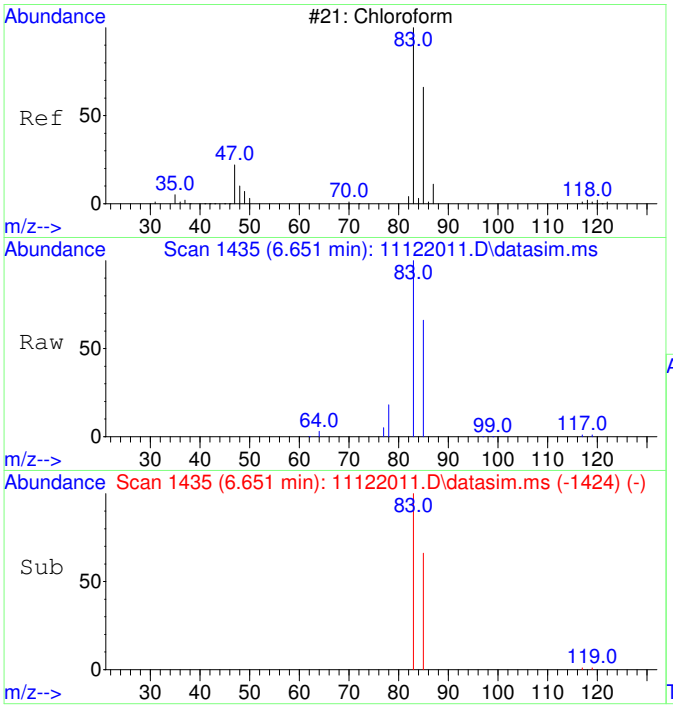


#5
cis-1,2-Dichloroethene
Concen: 13322.83 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 61 Resp: 429186

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

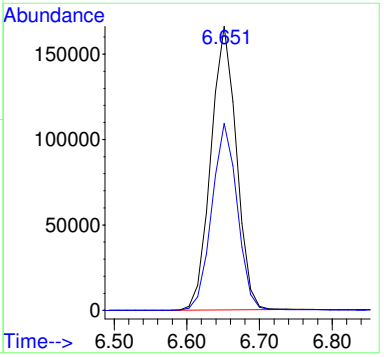


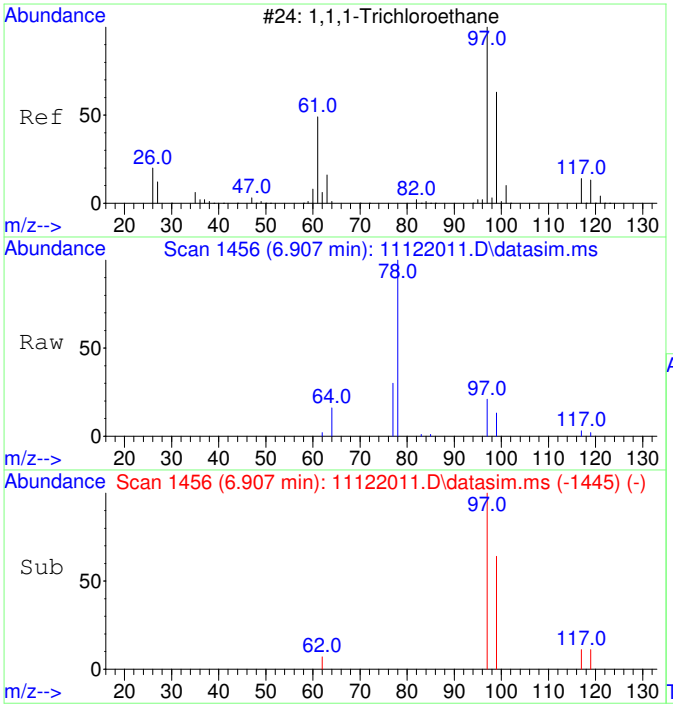


#6
Chloroform
Concen: 12289.87 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 83 Resp: 405229

Ion	Ratio	Lower	Upper
83	100		
85	65.4	35.1	95.1

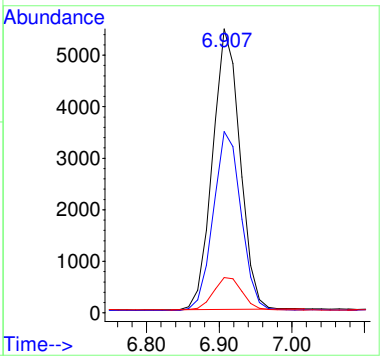


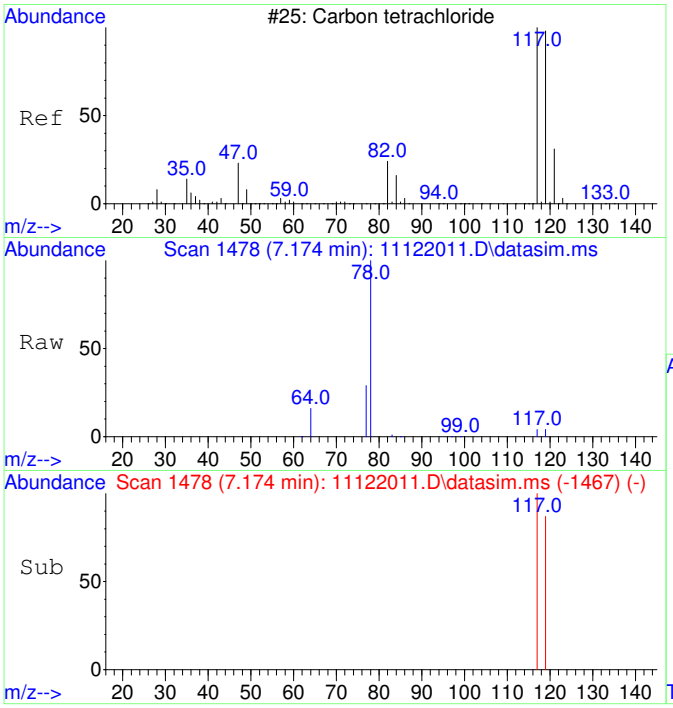


#7
1,1,1-Trichloroethane
Concen: 398.20 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 97 Resp: 14259

Ion	Ratio	Lower	Upper
97	100		
99	64.4	34.6	94.6
117	12.1	0.0	43.2

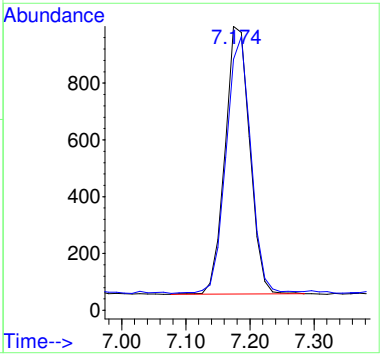


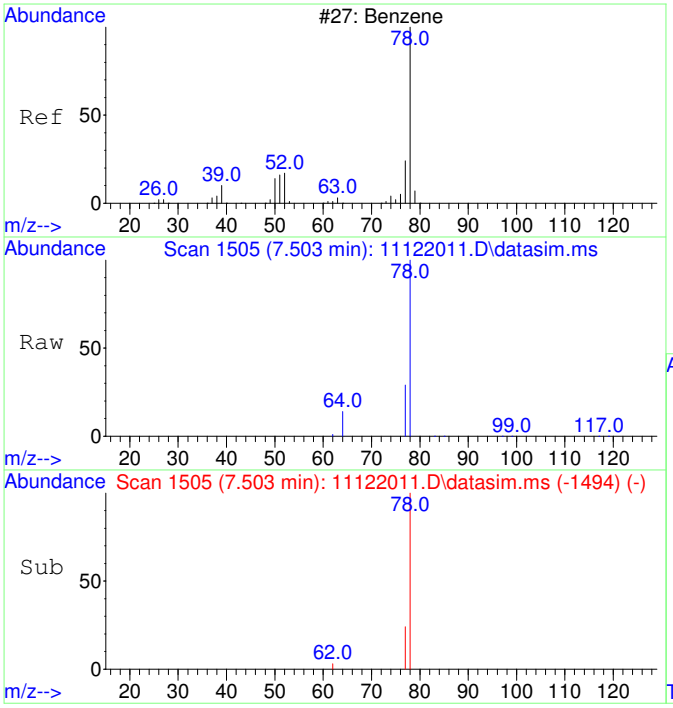


#8
Carbon tetrachloride
Concen: 74.86 ug/L
RT: 7.174 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:117 Resp: 2523

Ion	Ratio	Lower	Upper
117	100		
119	94.2	66.4	126.4

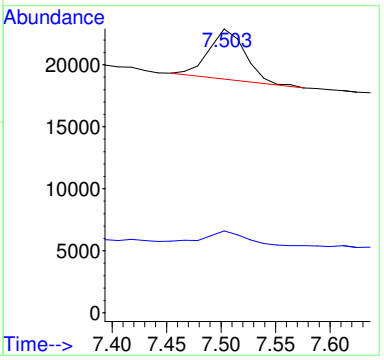


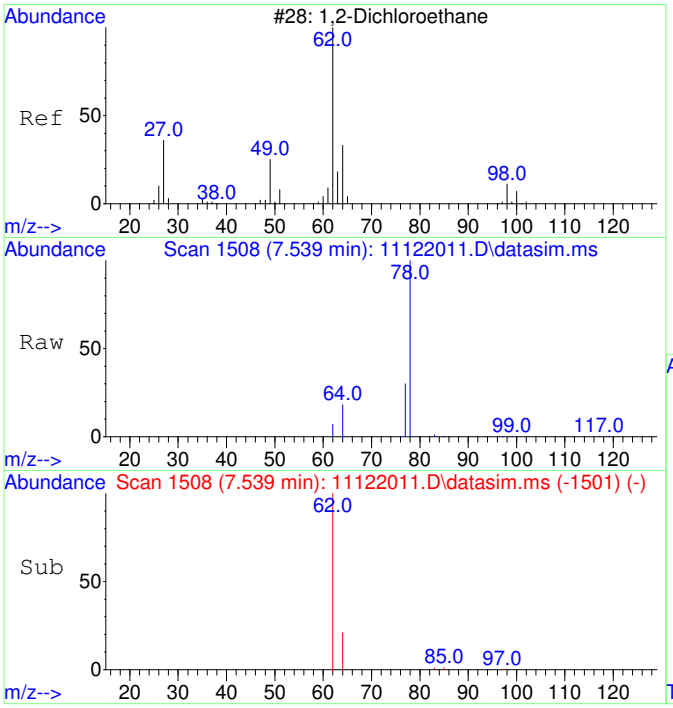


#9
Benzene
Concen: 101.26 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 78 Resp: 9143

Ion	Ratio	Lower	Upper
78	100		
77	43.9	0.0	53.2

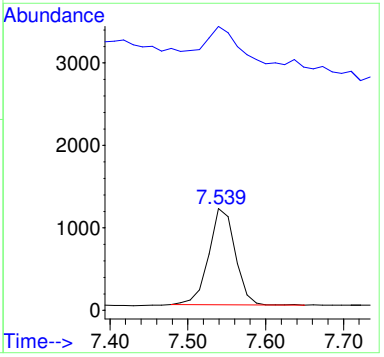


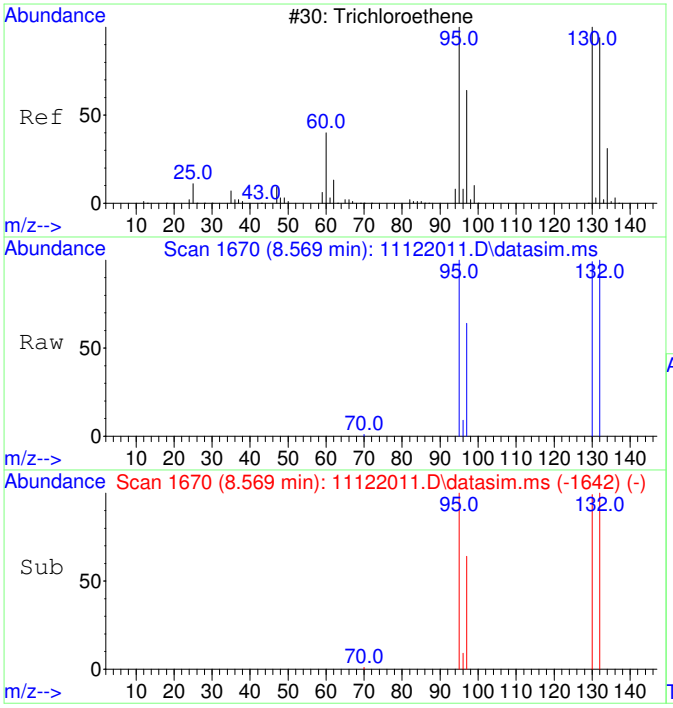


#10
1,2-Dichloroethane
Concen: 85.23 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 62 Resp: 2747

Ion	Ratio	Lower	Upper
62	100		
64	52.1	2.3	62.3

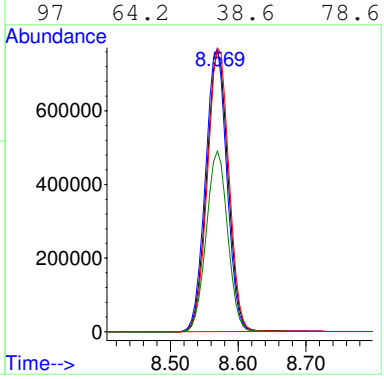


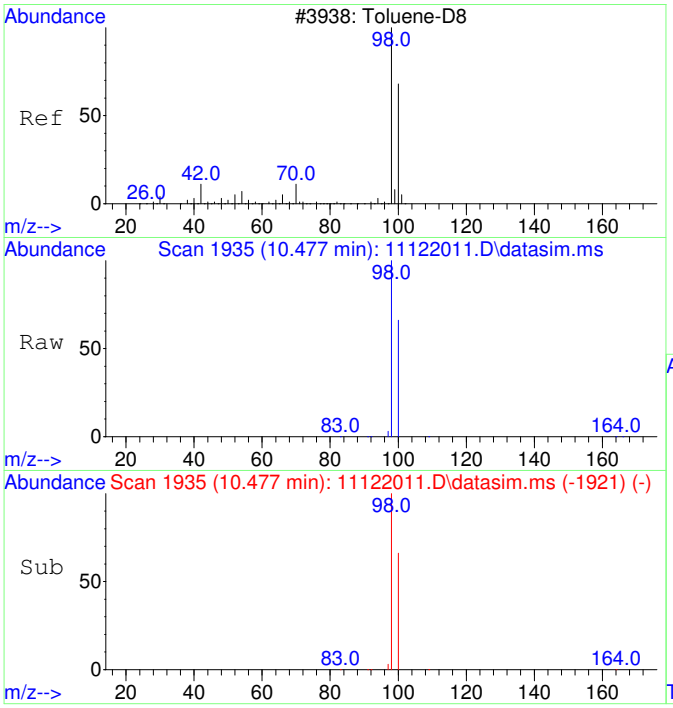


#11
Trichloroethene
Concen: 61779.80 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:130 Resp: 1679455

Ion	Ratio	Lower	Upper
130	100		
95	100.6	60.7	120.7
132	101.4	76.0	116.0
97	64.2	38.6	78.6

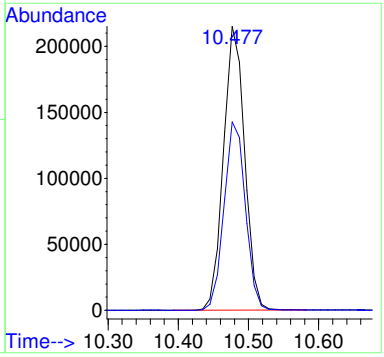


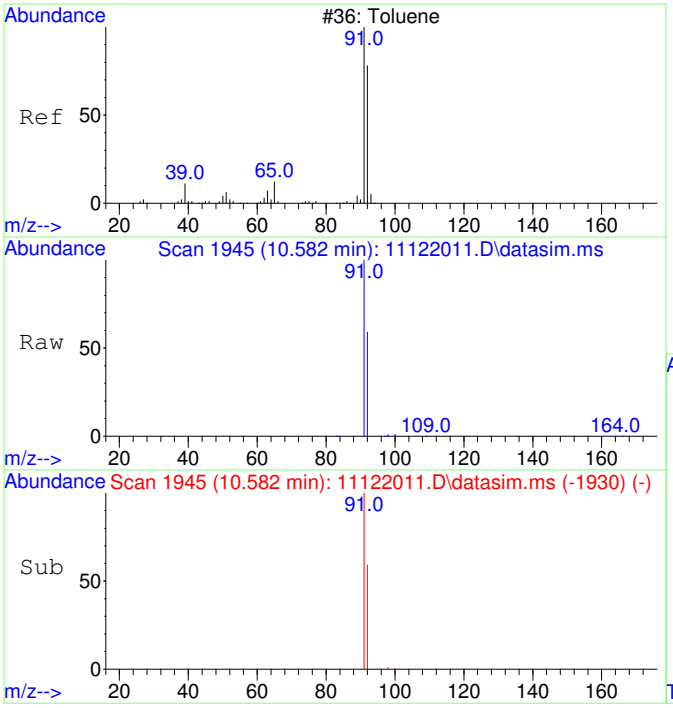


#12
Toluene-d8
Concen: 4327.41 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 98 Resp: 450169

Ion	Ratio	Lower	Upper
98	100		
100	66.9	37.1	97.1

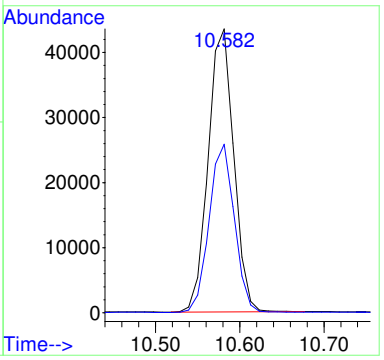


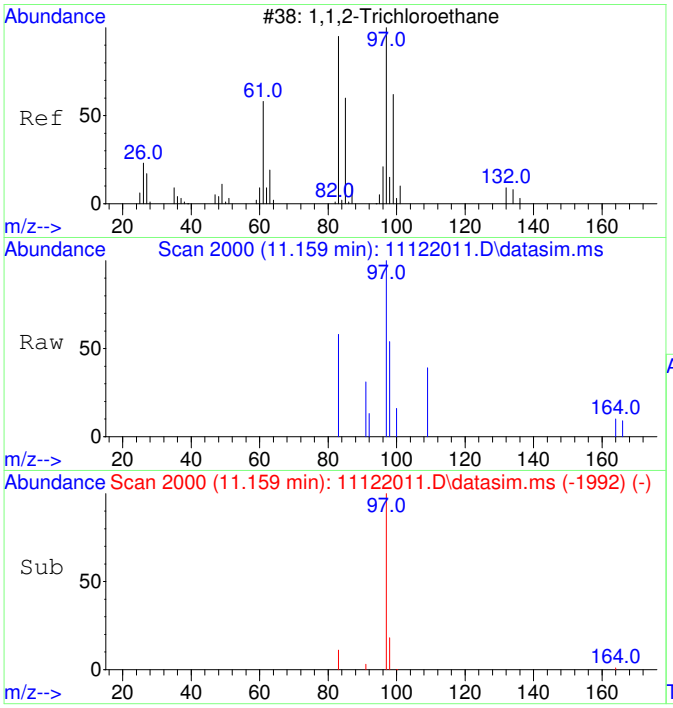


#13
Toluene
Concen: 692.20 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 91804

Ion	Ratio	Lower	Upper
91	100		
92	58.6	29.9	89.9

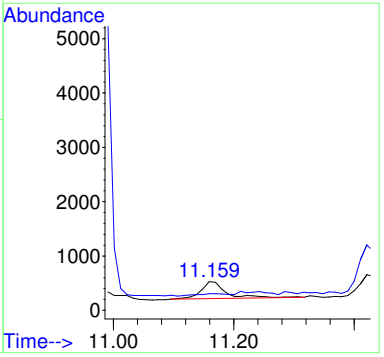


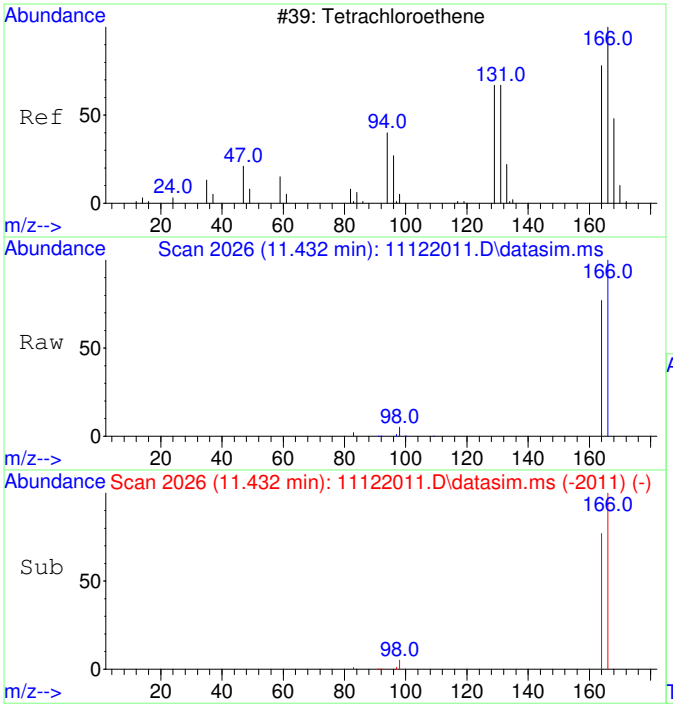


#14
1,1,2-Trichloroethane
Concen: 30.62 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 97 Resp: 885

Ion	Ratio	Lower	Upper
97	100		
83	16.0	51.2	111.2#

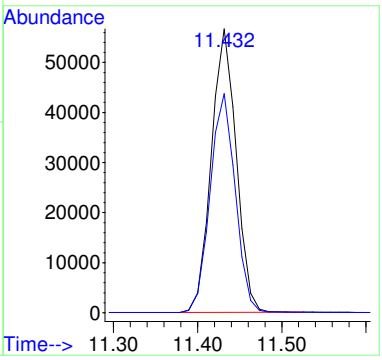


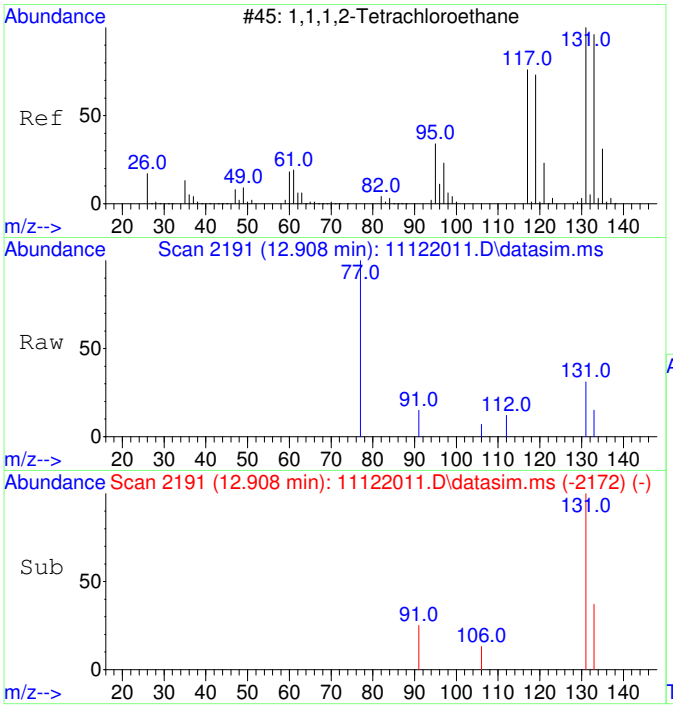


#15
Tetrachloroethene
Concen: 3029.84 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:166 Resp: 116290

Ion	Ratio	Lower	Upper
166	100		
164	77.8	47.8	107.8

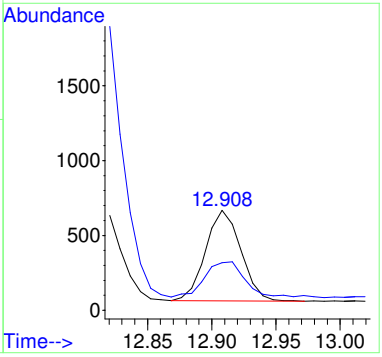


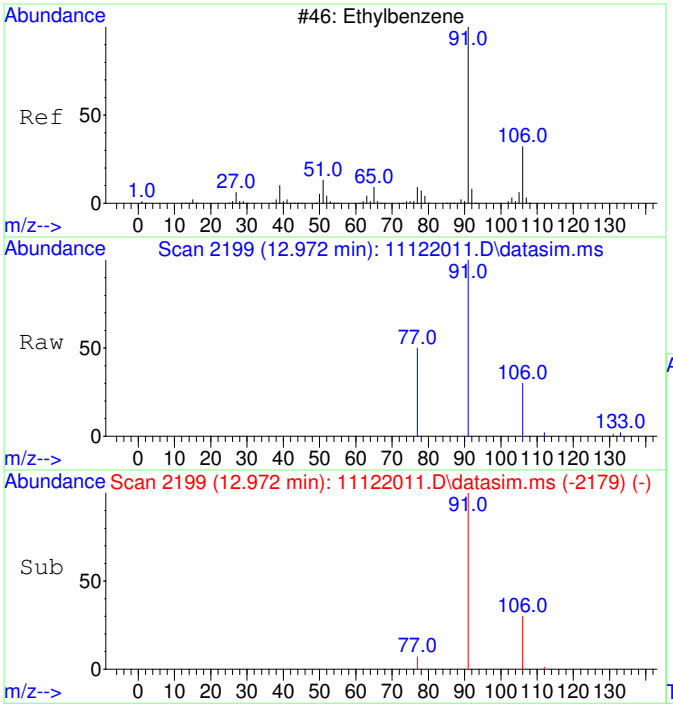


#17
1,1,1,2-Tetrachloroethane
Concen: 34.00 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:131 Resp: 1157

Ion	Ratio	Lower	Upper
131	100		
133	45.8	66.3	126.3#

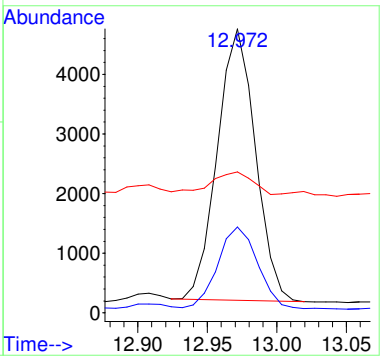


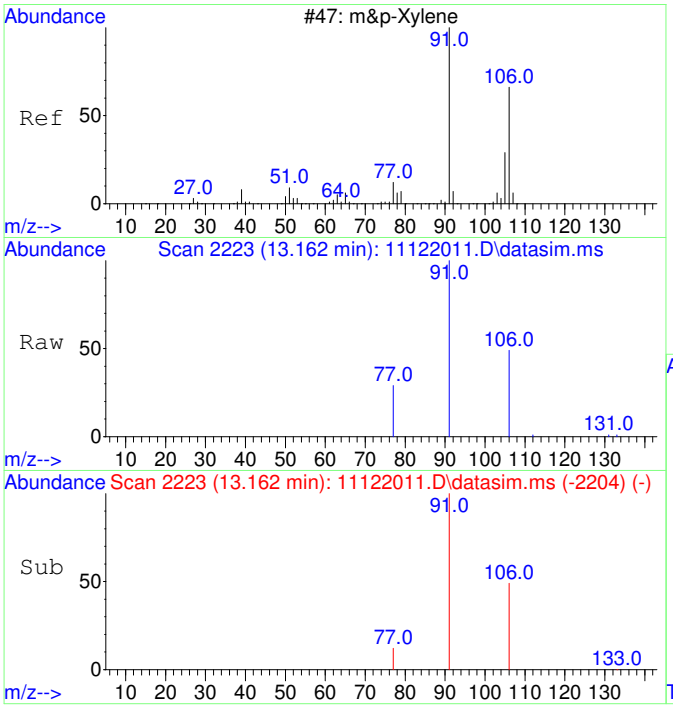


#18
Ethylbenzene
Concen: 53.71 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 8670

Ion	Ratio	Lower	Upper
91	100		
106	31.9	3.0	63.0
77	9.8	0.0	38.2

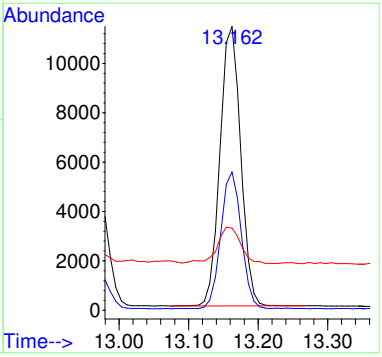


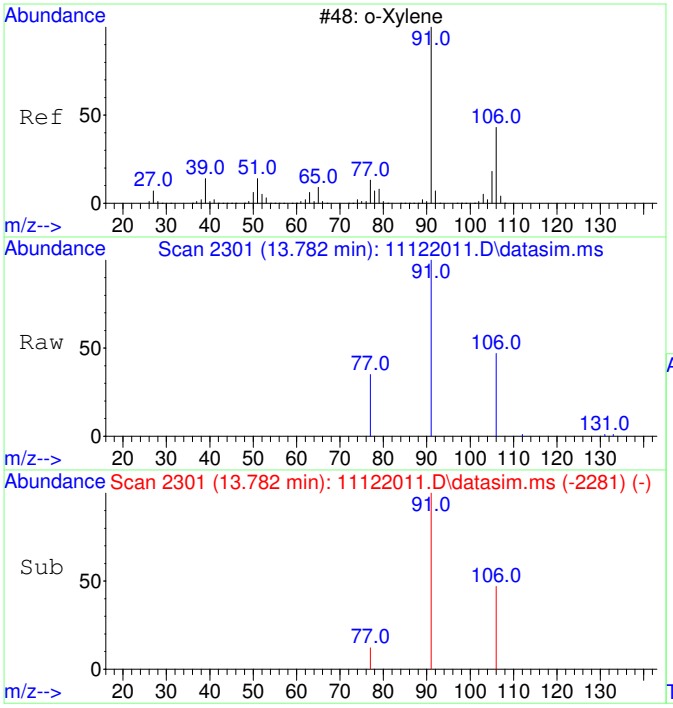


#19
m&p-Xylene
Concen: 185.57 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 23413

Ion	Ratio	Lower	Upper
91	100		
106	48.3	22.2	82.2
77	14.6	0.0	42.4

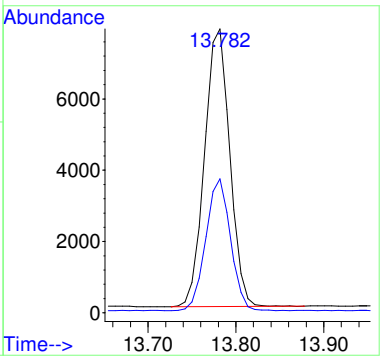


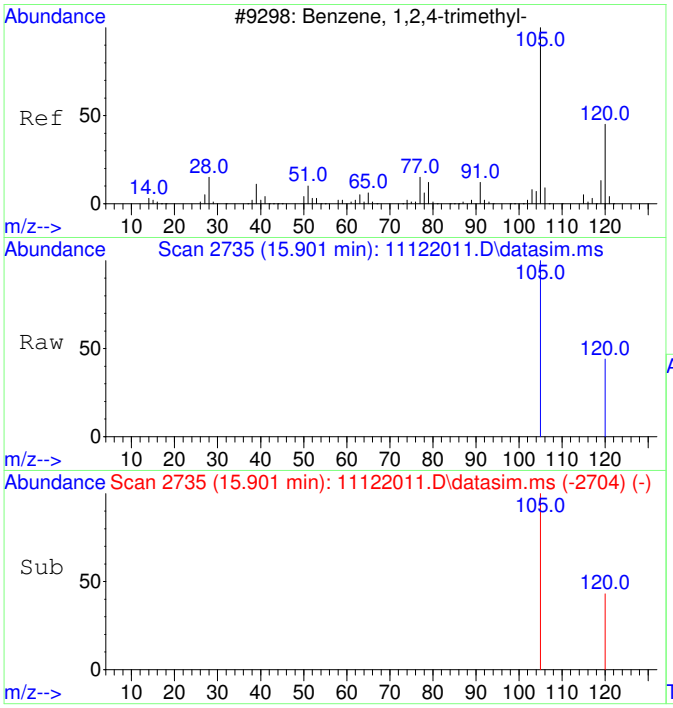


#20
o-Xylene
Concen: 115.69 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 15595

Ion	Ratio	Lower	Upper
91	100		
106	46.4	19.2	79.2

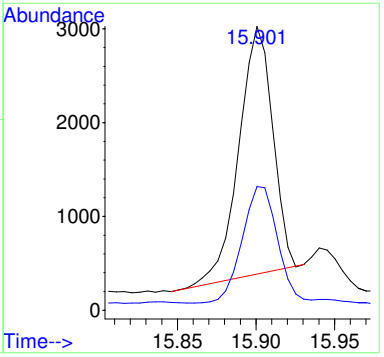


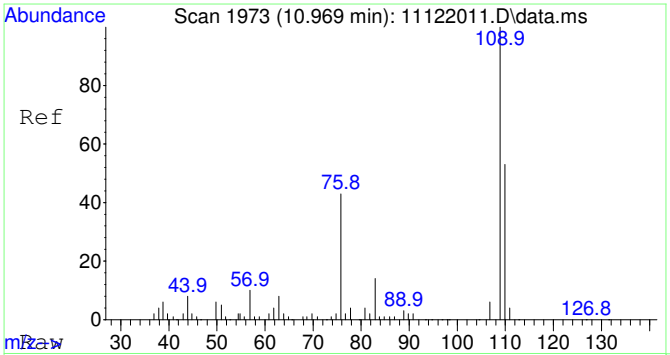


#23
1,2,4-Trimethylbenzene
Concen: 26.68 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:105 Resp: 3976

Ion	Ratio	Lower	Upper
105	100		
120	50.5	17.2	77.2

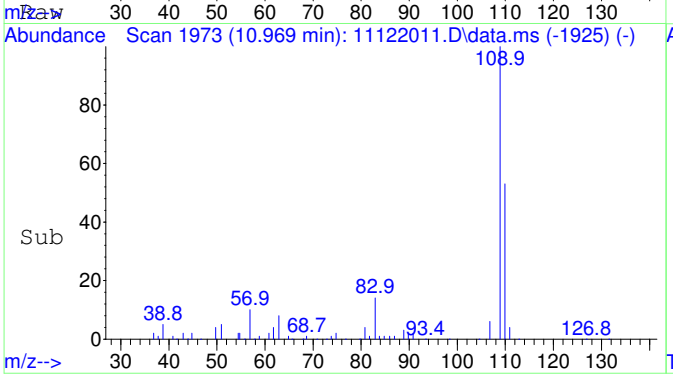


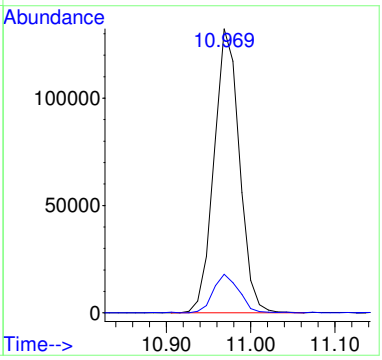


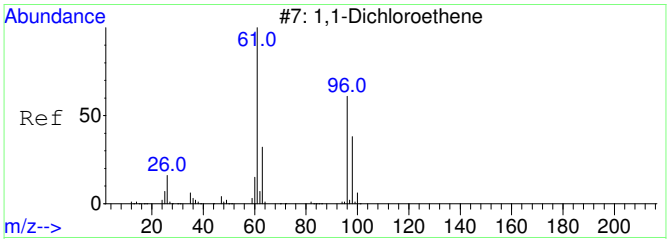
#25
2-Fluorotoluene SCAN
Concen: 5354.08 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:109 Resp: 277351

Ion	Ratio	Lower	Upper
109	100		
83	14.0	0.0	43.8



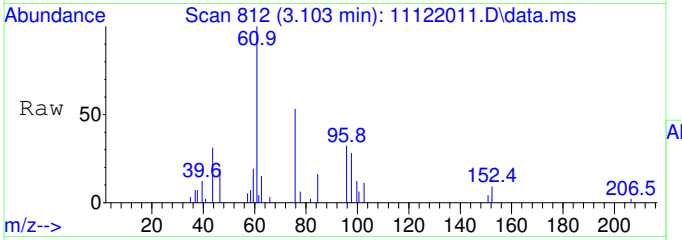


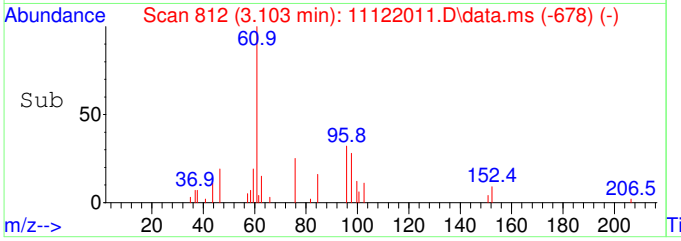


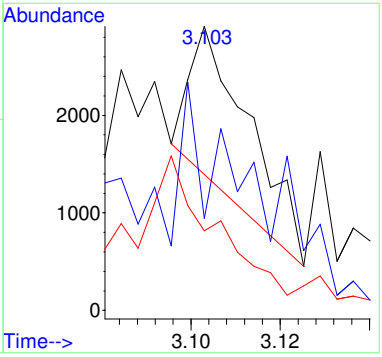
#26
1,1-Dichloroethene SCAN
Concen: 123.81 ug/L
RT: 3.103 min Scan# 812
Delta R.T. -0.004 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

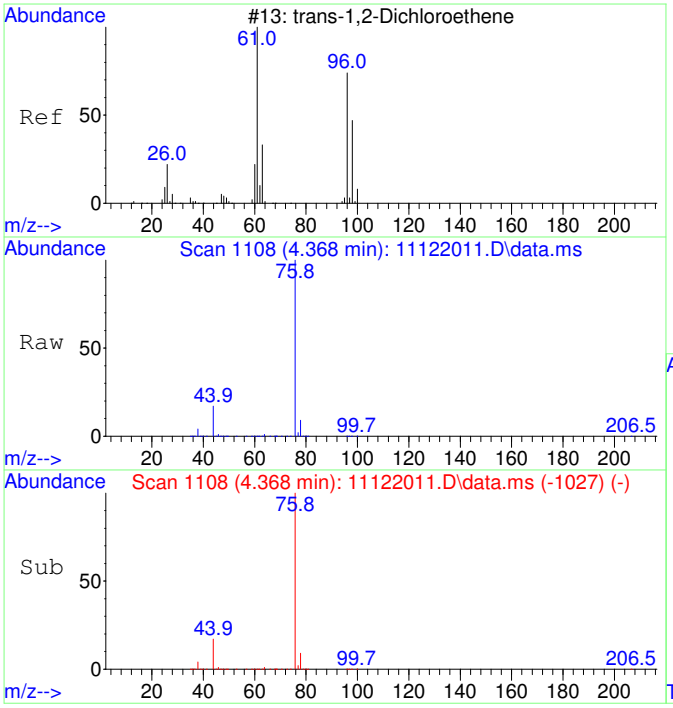
Tgt Ion: 61 Resp: 1362

Ion	Ratio	Lower	Upper
61	100		
96	126.7	33.1	93.1#
98	200.1	11.2	71.2#





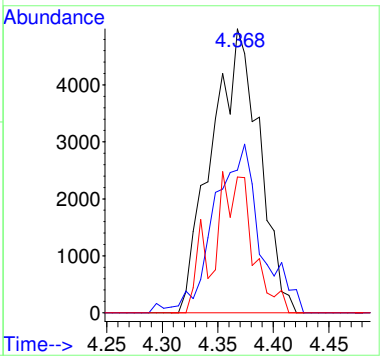


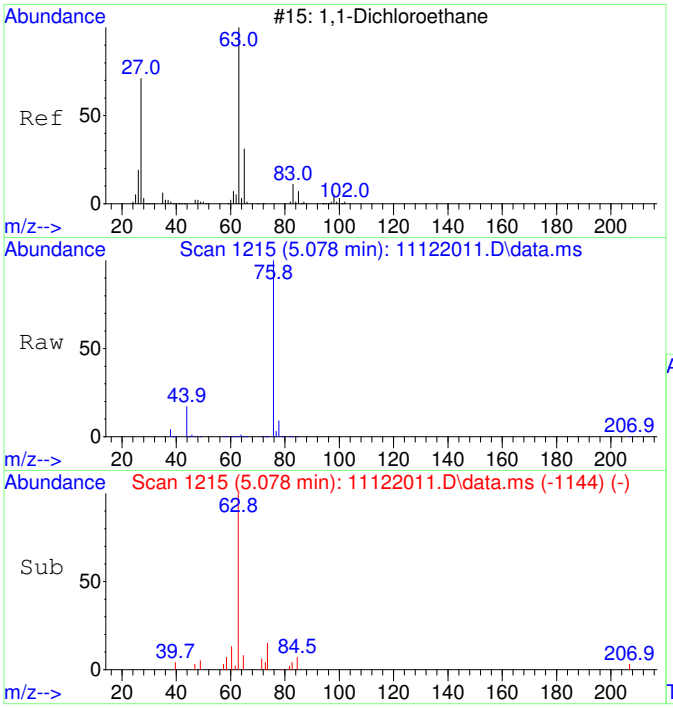


#27
trans-1,2-Dichloroethene SCAN
Concen: 1096.66 ug/L
RT: 4.368 min Scan# 1108
Delta R.T. -0.033 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 61 Resp: 14929

Ion	Ratio	Lower	Upper
61	100		
96	57.8	49.0	109.0
98	24.5	20.5	80.5

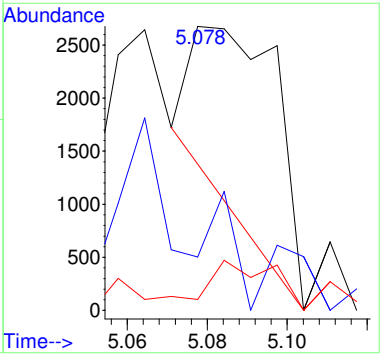


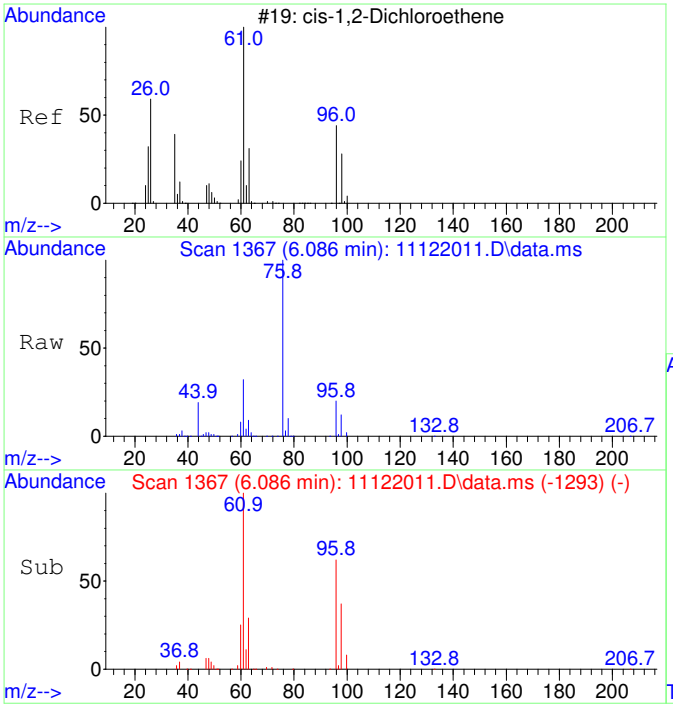


#28
1,1-Dichloroethane SCAN
Concen: 148.46 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. -0.027 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 63 Resp: 2339

Ion	Ratio	Lower	Upper
63	100		
65	0.0	1.3	61.3#
83	17.0	0.0	45.9

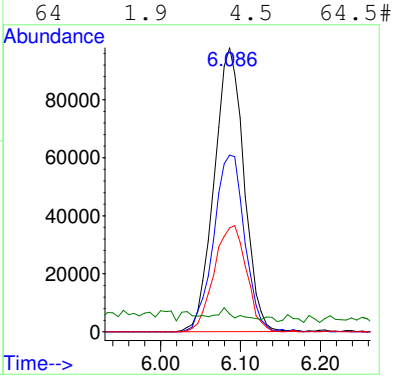


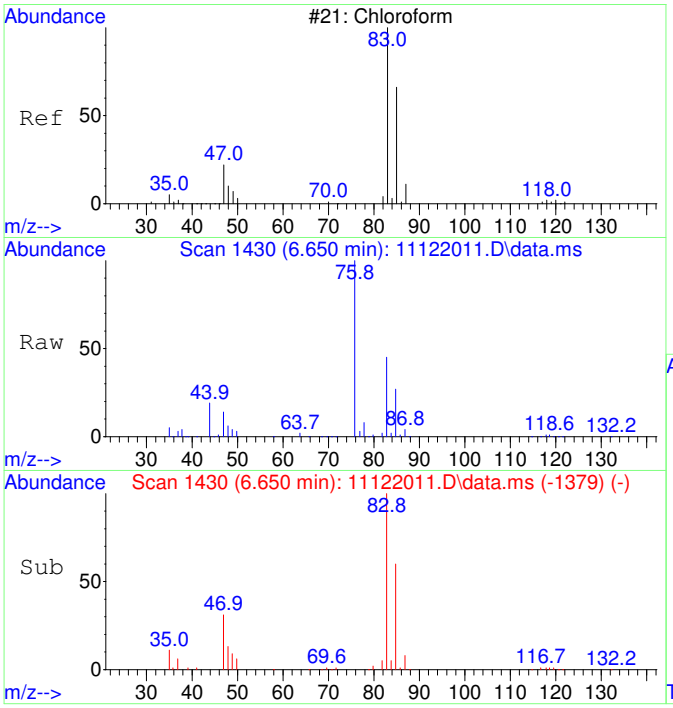


#29
cis-1,2-Dichloroethene SCAN
Concen: 14988.98 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 61 Resp: 253008

Ion	Ratio	Lower	Upper
61	100		
96	65.2	39.9	99.9
98	40.8	13.5	73.5
64	1.9	4.5	64.5#

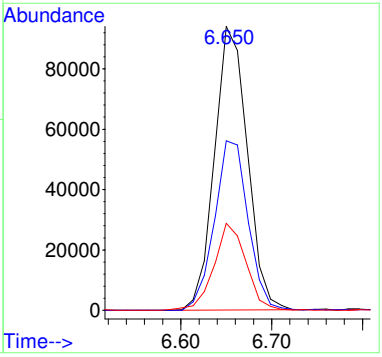


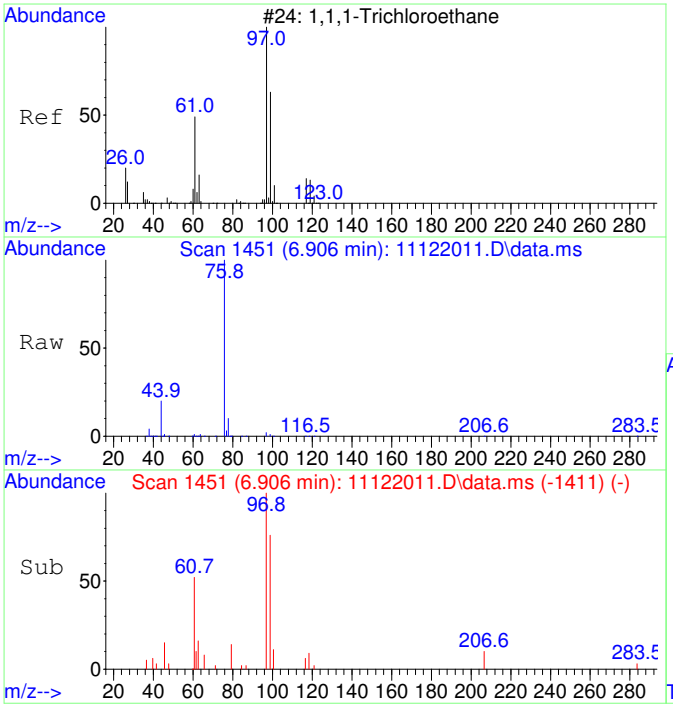


#30
Chloroform SCAN
Concen: 12918.25 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 83 Resp: 236511

Ion	Ratio	Lower	Upper
83	100		
85	61.8	34.6	94.6
47	30.1	0.0	53.4

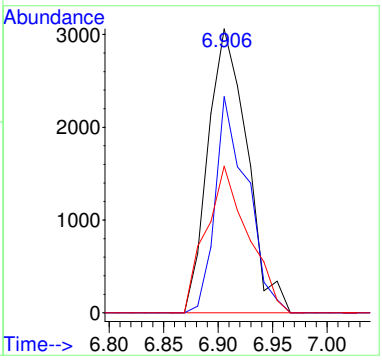


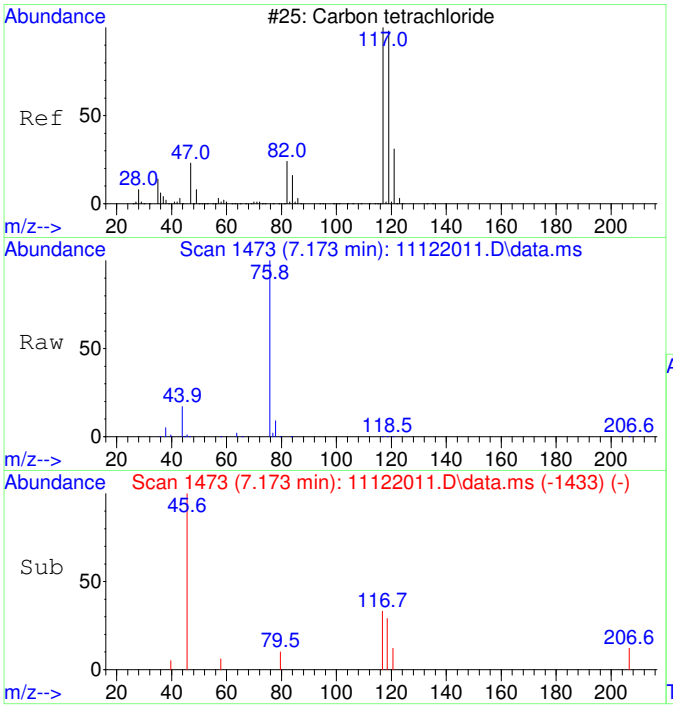


#31
1,1,1-Trichloroethane SCAN
Concen: 457.38 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 97 Resp: 7631

Ion	Ratio	Lower	Upper
97	100		
99	62.7	43.6	103.6
61	55.9	18.0	78.0

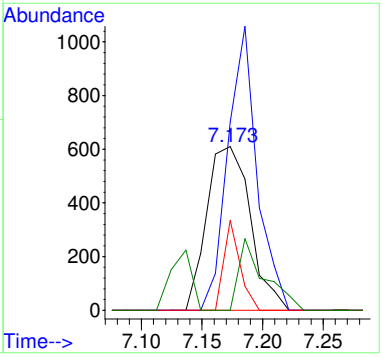


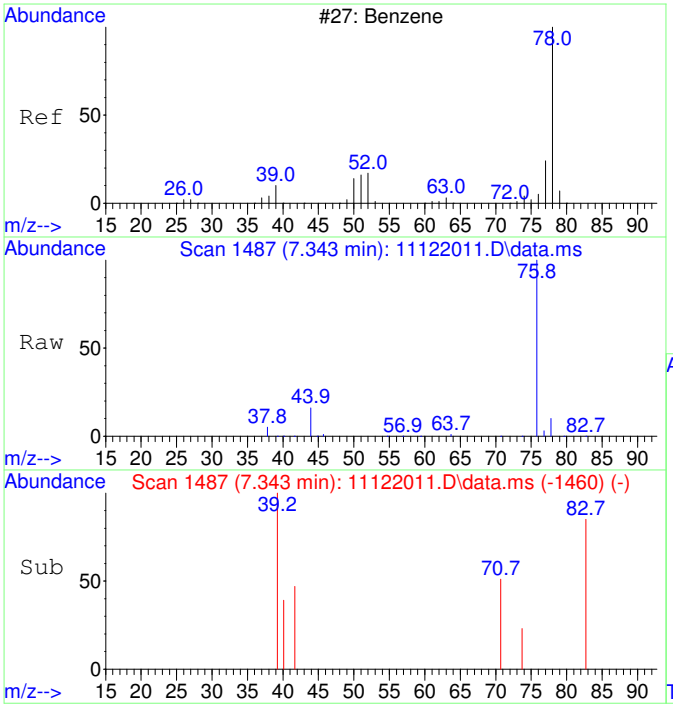


#32
Carbon tetrachloride SCAN
Concen: 87.91 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.012 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:117 Resp: 1530

Ion	Ratio	Lower	Upper
117	100		
119	116.7	75.5	135.5
121	20.3	0.0	58.8
82	26.2	0.0	59.2

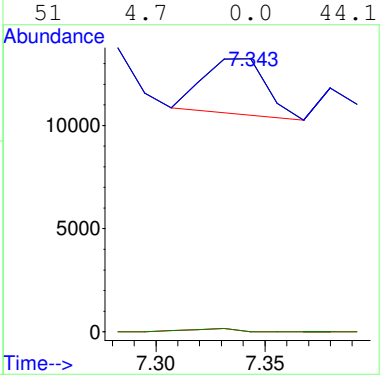


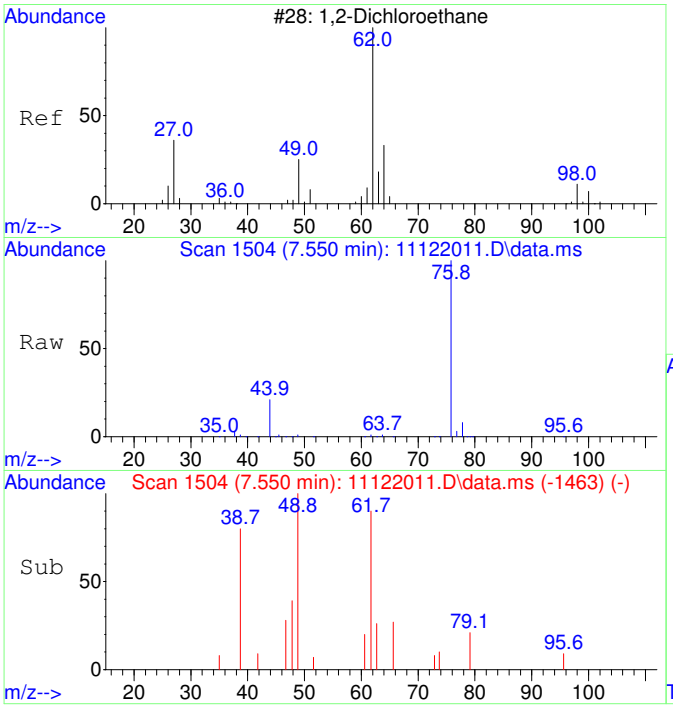


#33
Benzene SCAN
Concen: 112.68 ug/L
RT: 7.343 min Scan# 1487
Delta R.T. -0.171 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 78 Resp: 5176

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	4.7	0.0	47.9
51	4.7	0.0	44.1

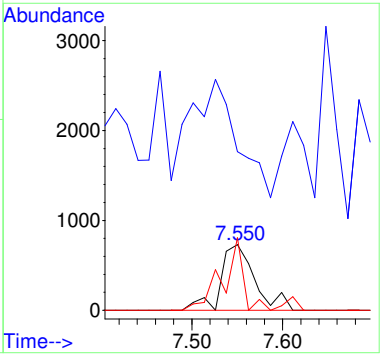


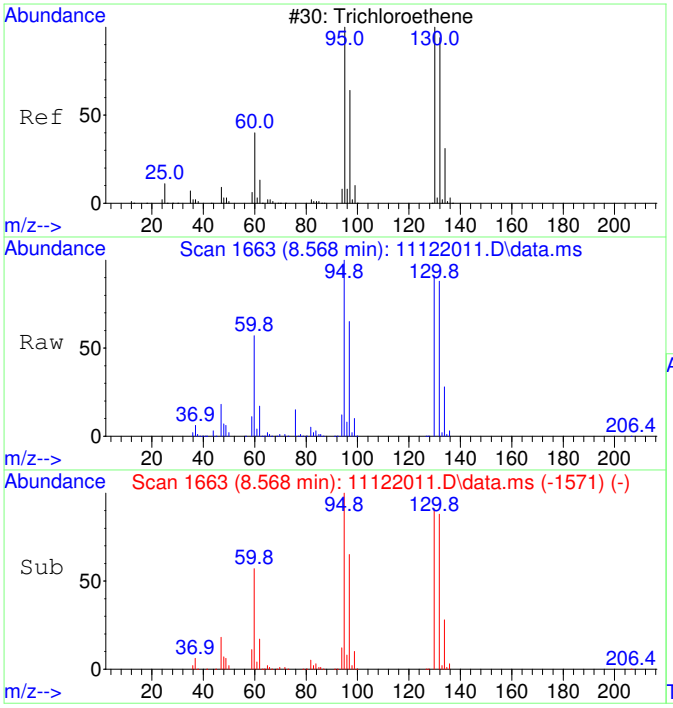


#34
1,2-Dichloroethane SCAN
Concen: 111.89 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 62 Resp: 1898

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	66.6	3.9	63.9#

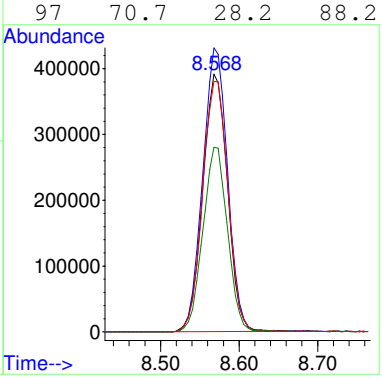


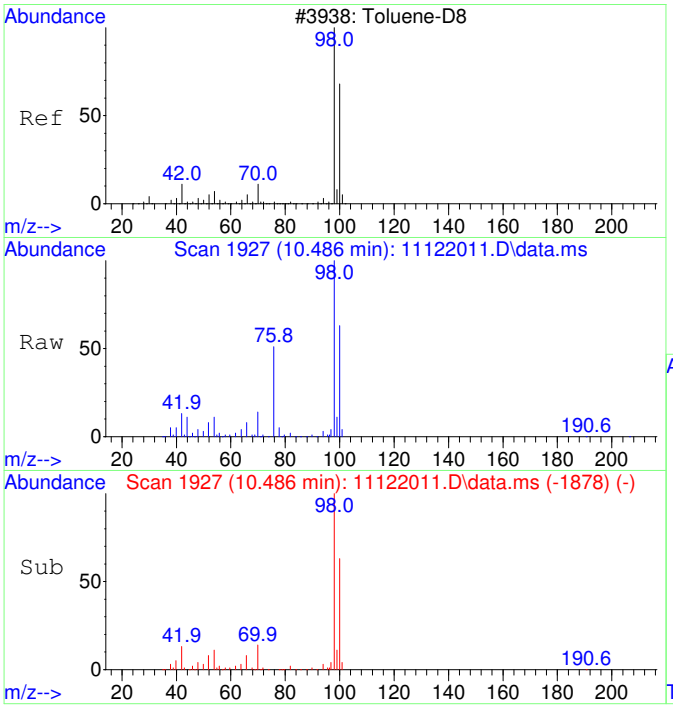


#35
Trichloroethene SCAN
Concen: 67728.54 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:130 Resp: 854996

Ion	Ratio	Lower	Upper
130	100		
95	110.9	60.5	120.5
132	99.8	59.6	119.6
97	70.7	28.2	88.2

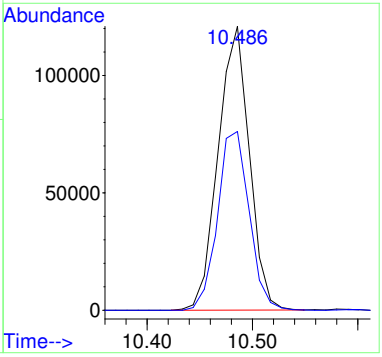


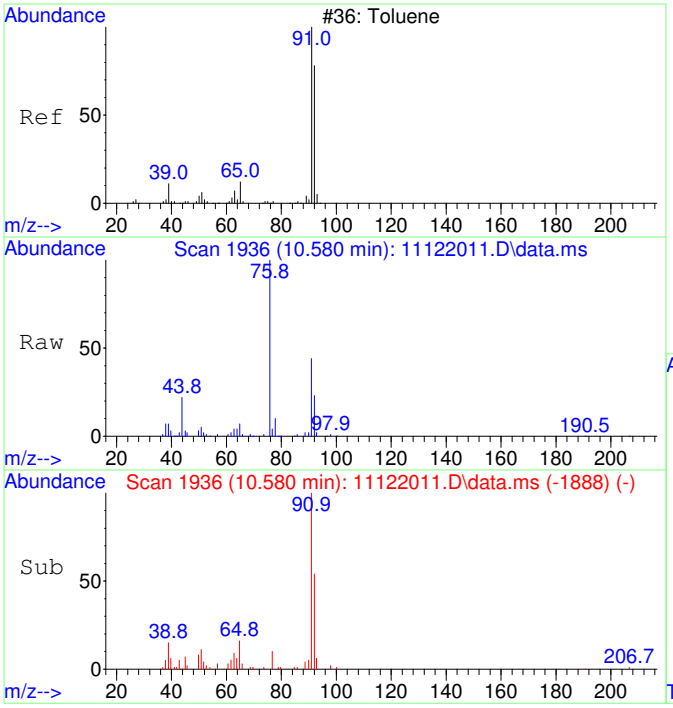


#36
Toluene-d8 SCAN
Concen: 4919.72 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 98 Resp: 249236

Ion	Ratio	Lower	Upper
98	100		
100	64.0	40.0	100.0

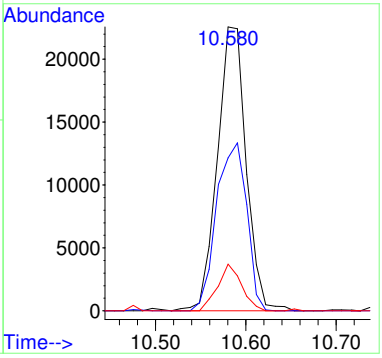


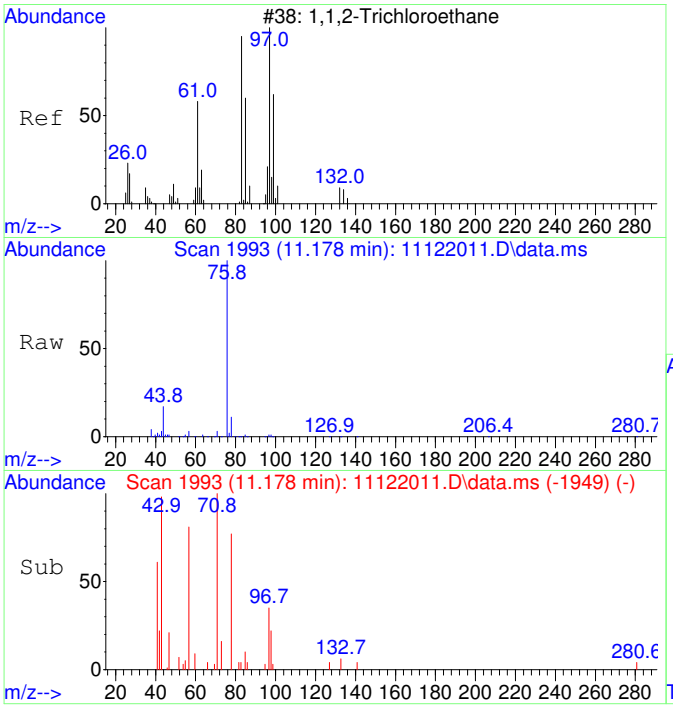


#37
Toluene SCAN
Concen: 776.30 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 50365

Ion	Ratio	Lower	Upper
91	100		
92	61.7	28.3	88.3
65	13.7	0.0	41.0

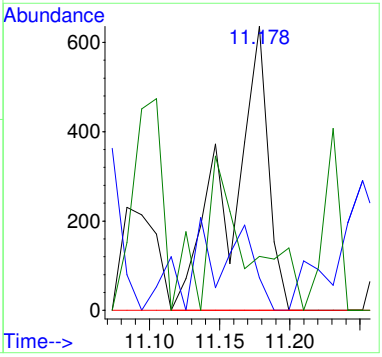


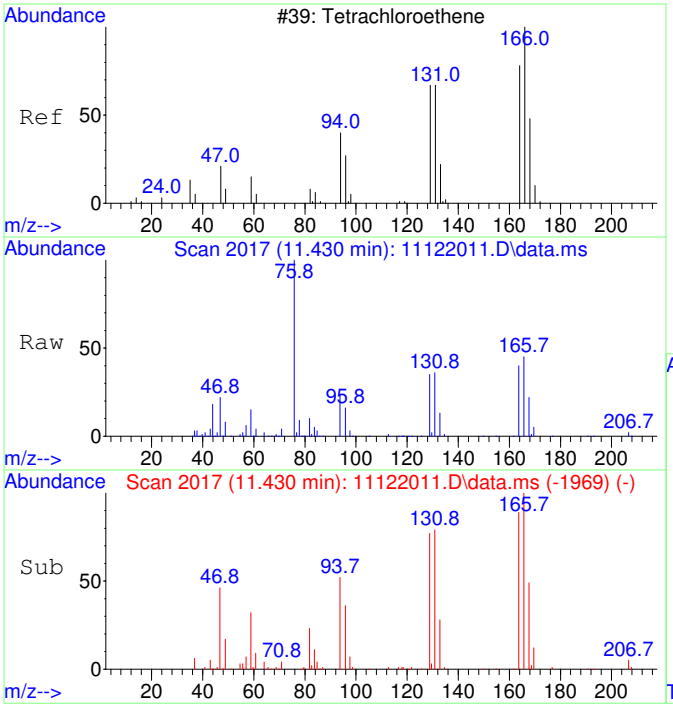


#38
1,1,2-Trichloroethane SCAN
Concen: 82.27 ug/L
RT: 11.178 min Scan# 1993
Delta R.T. -0.042 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 97 Resp: 1198

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#

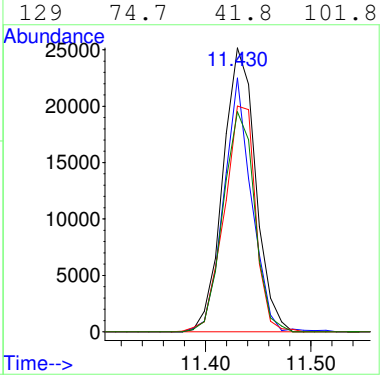


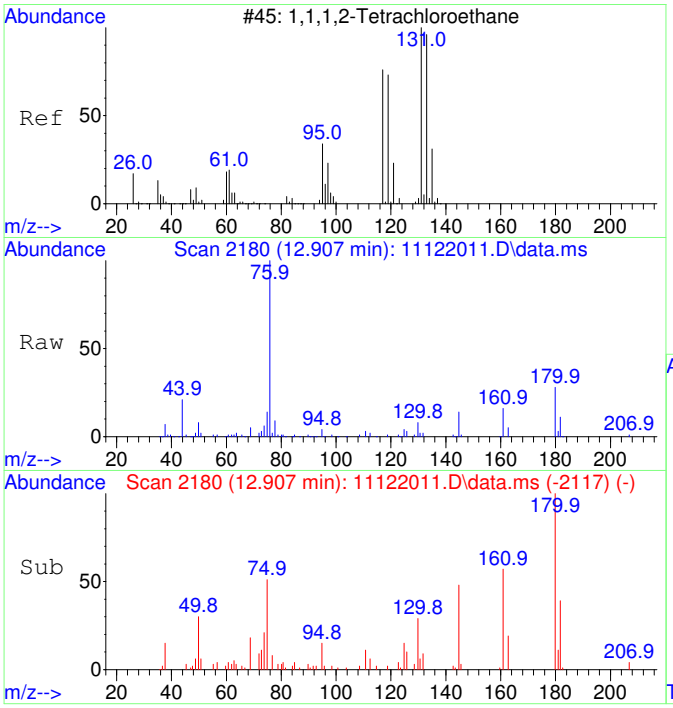


#39
Tetrachloroethene SCAN
Concen: 3491.60 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:166 Resp: 54423

Ion	Ratio	Lower	Upper
166	100		
164	76.5	50.9	110.9
131	76.2	38.7	98.7
129	74.7	41.8	101.8

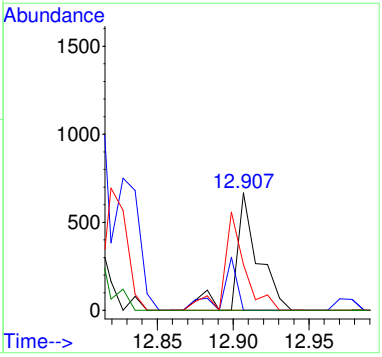


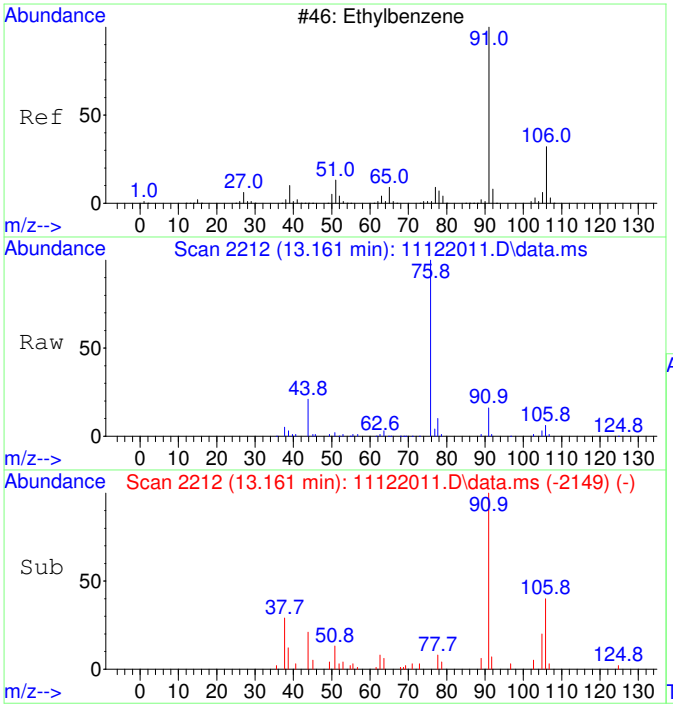


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 41.69 ug/L
RT: 12.907 min Scan# 2180
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:131 Resp: 684

Ion	Ratio	Lower	Upper
131	100		
133	30.0	66.9	126.9#
119	76.6	40.4	100.4
117	0.0	35.1	95.1#

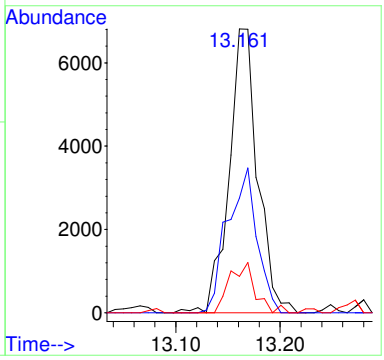


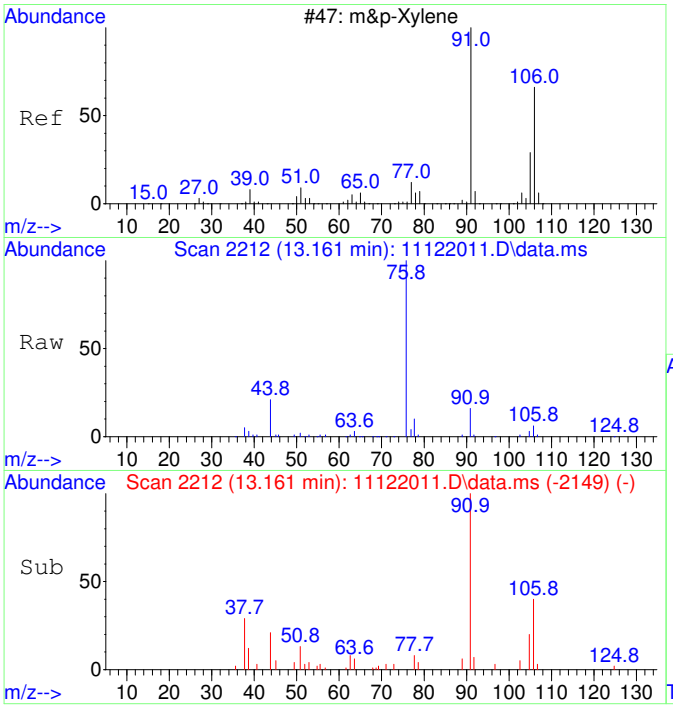


#42
Ethylbenzene SCAN
Concen: 110.04 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 13007

Ion	Ratio	Lower	Upper
91	100		
106	52.6	23.1	83.1
51	15.8	0.0	40.1

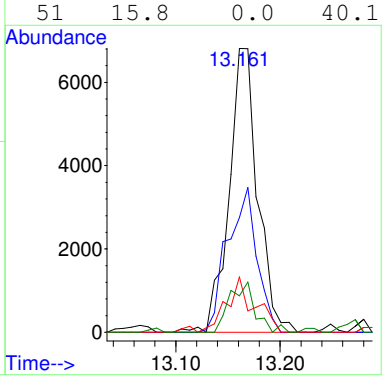


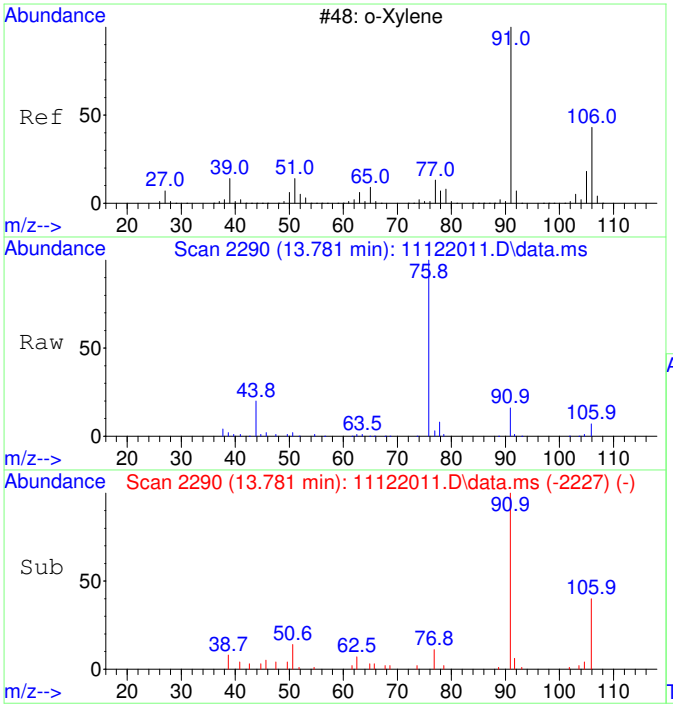


#43
m&p-Xylene SCAN
Concen: 110.04 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 13007

Ion	Ratio	Lower	Upper
91	100		
106	52.6	23.1	83.1
105	18.7	0.0	54.7
51	15.8	0.0	40.1

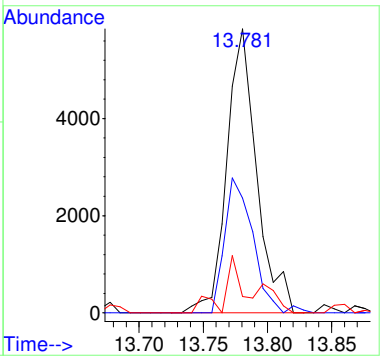


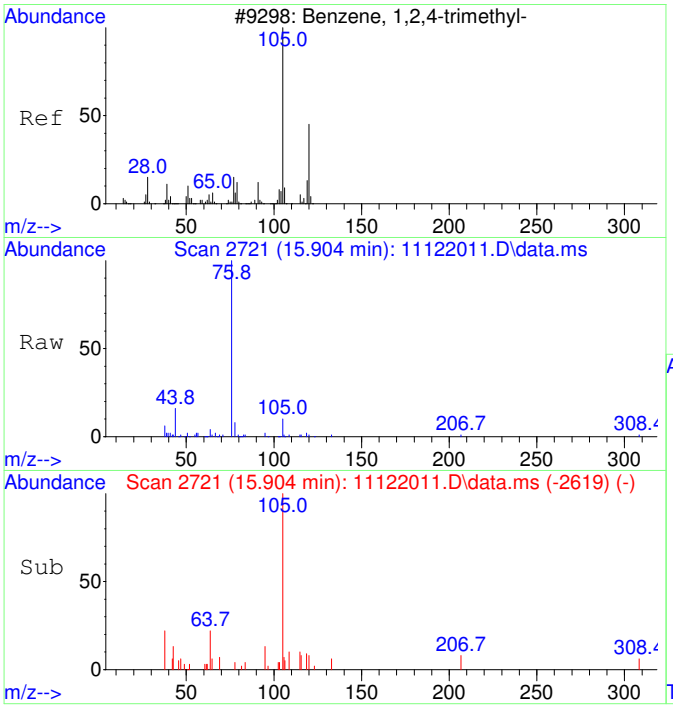


#44
o-Xylene SCAN
Concen: 149.32 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.000 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion: 91 Resp: 9447

Ion	Ratio	Lower	Upper
91	100		
106	45.1	18.0	78.0
105	6.9	0.0	56.6

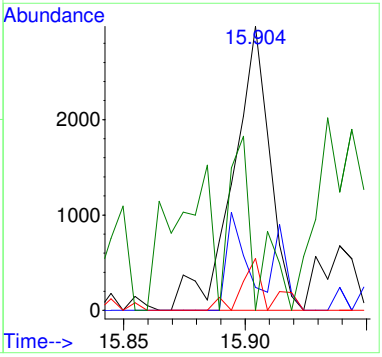




#47
1,2,4-Trimethylbenzene SCAN
Concen: 46.02 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122011.D
Acq: 12 Nov 2020 12:25

Tgt Ion:105 Resp: 3140

Ion	Ratio	Lower	Upper
105	100		
120	15.7	16.9	76.9#
119	13.0	0.0	41.9
77	44.0	0.0	42.3#



2011015-04

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122012.D
Acq On : 12 Nov 2020 12:48
InstName : AG5975C
Operator : TD
Sample : 2011015-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 12 13:07:39 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

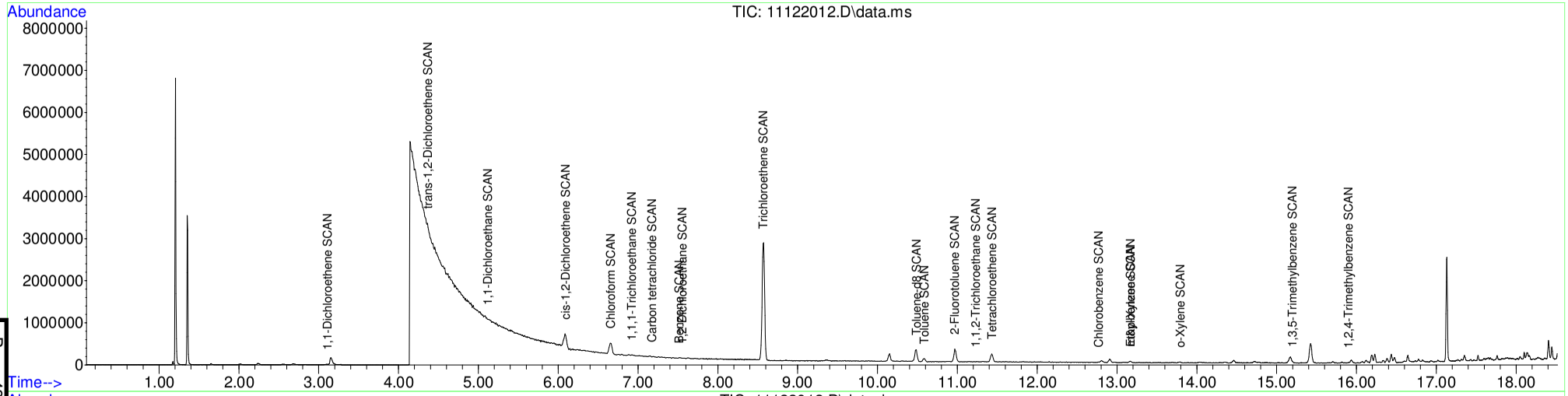
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	455361	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	392980	4408.48 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.17%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.093	61	16974	933.49 ug/L	80
3] trans-1,2-Dichloroethene	4.369	61	28090	1337.08 ug/L	100
4] 1,1-Dichloroethane	5.086	63	14790	565.55 ug/L	97
5] cis-1,2-Dichloroethene	6.088	61	494277	17905.56 ug/L	99
6] Chloroform	6.652	83	444217	15722.02 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	16567	539.91 ug/L	99
8] Carbon tetrachloride	7.187	117	2803	97.05 ug/L	99
9] Benzene	7.503	78	10993	142.09 ug/L	67
10] 1,2-Dichloroethane	7.540	62	3080	111.52 ug/L	54
11] Trichloroethene	8.569	130	1921090	82469.32 ug/L **oc**	92
13] Toluene	10.582	91	110471	972.05 ug/L	99
14] 1,1,2-Trichloroethane	11.159	97	900	36.34 ug/L #	22
15] Tetrachloroethene	11.432	166	129750	3945.04 ug/L	100
16] Chlorobenzene	12.765	112	1681	20.66 ug/L	66
17] 1,1,1,2-Tetrachloroethane	12.908	131	1199	41.12 ug/L #	46
18] Ethylbenzene	12.972	91	12533	90.60 ug/L	97
19] m&p-Xylene	13.162	91	37357	345.53 ug/L	95
20] o-Xylene	13.782	91	19788	171.31 ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.866	83	1390	27.15 ug/L #	26
22] 1,3,5-Trimethylbenzene	15.345	105	4261	34.66 ug/L	84
23] 1,2,4-Trimethylbenzene	15.901	105	6328	49.55 ug/L	96
25) 2-Fluorotoluene SCAN	10.969	109	242148	5455.10 ug/L	98
26) 1,1-Dichloroethene SCAN	3.111	61	2167	229.87 ug/L #	27
27) trans-1,2-Dichloroethe...	4.361	61	18055	1547.76 ug/L	76
28) 1,1-Dichloroethane SCAN	5.118	63	276	20.44 ug/L #	1
29) cis-1,2-Dichloroethene...	6.086	61	291056	20122.45 ug/L #	81
30) Chloroform SCAN	6.650	83	263193	16776.19 ug/L	95
31) 1,1,1-Trichloroethane ...	6.918	97	8950	626.02 ug/L	92
32) Carbon tetrachloride SCAN	7.173	117	1647	110.44 ug/L #	19
33) Benzene SCAN	7.514	78	13646	346.66 ug/L	98
34) 1,2-Dichloroethane SCAN	7.550	62	1428	98.24 ug/L #	47
35) Trichloroethene SCAN	8.568	130	982351	90811.51 ug/L	84
36) Toluene-d8 SCAN	10.486	98	212939	4905.14 ug/L	94
37) Toluene SCAN	10.580	91	60989	1097.03 ug/L	96
38) 1,1,2-Trichloroethane ...	11.231	97	278	22.28 ug/L #	26
39) Tetrachloroethene SCAN	11.430	166	62751	4698.17 ug/L	98
40) Chlorobenzene SCAN	12.764	112	850	22.37 ug/L #	1
42) Ethylbenzene SCAN	13.169	91	21710	214.35 ug/L	91
43) m&p-Xylene SCAN	13.169	91	21710	214.35 ug/L	83
44) o-Xylene SCAN	13.789	91	13153	242.61 ug/L	89
46) 1,3,5-Trimethylbenzene...	15.198	105	2671	46.75 ug/L	89
47) 1,2,4-Trimethylbenzene...	15.894	105	4508	77.11 ug/L	76

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122012.D
Acq On : 12 Nov 2020 12:48
InstName : AG5975C
Operator : TD
Sample : 2011015-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 12 13:07:39 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



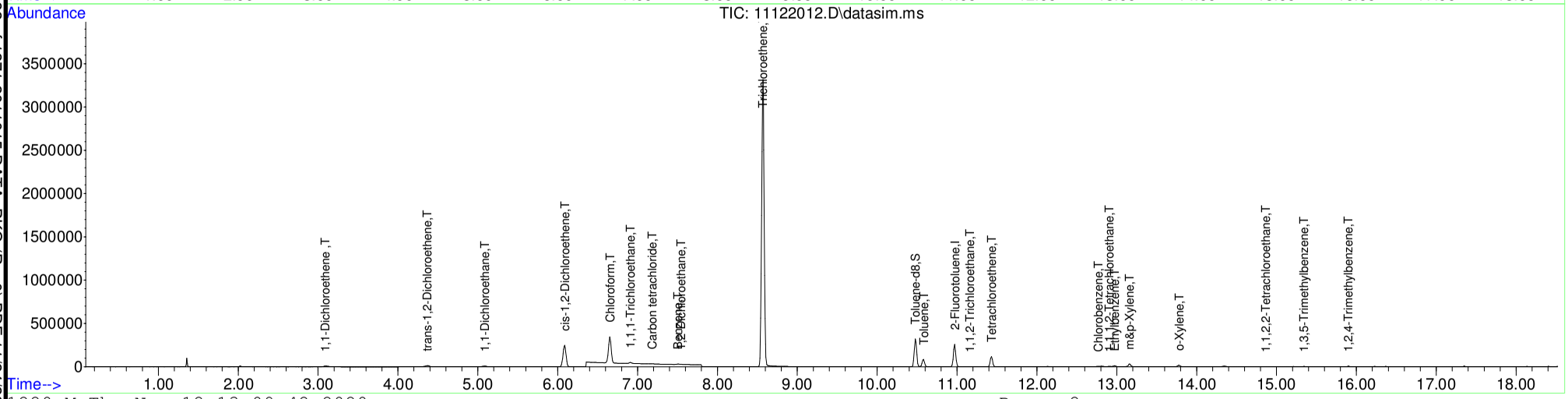
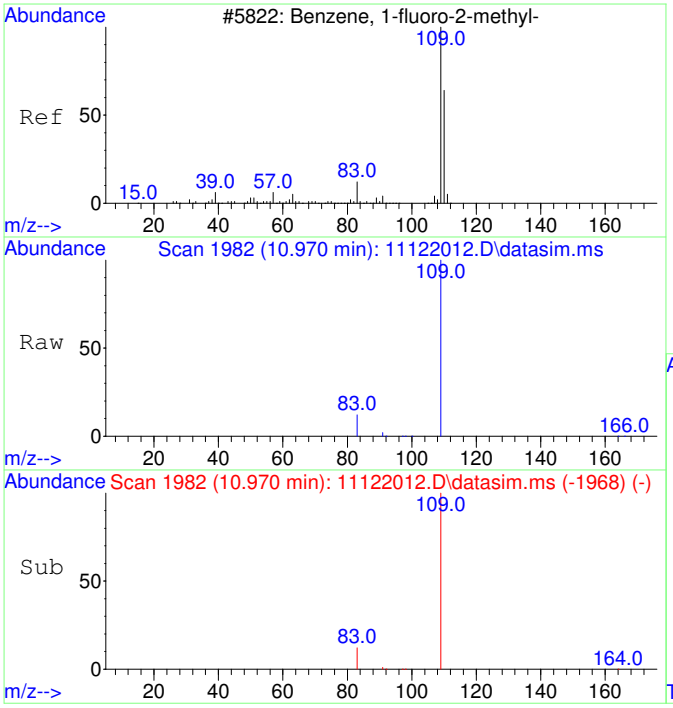


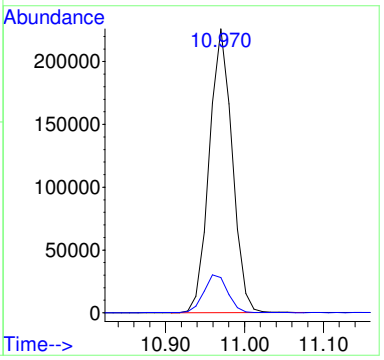
Table of Contents

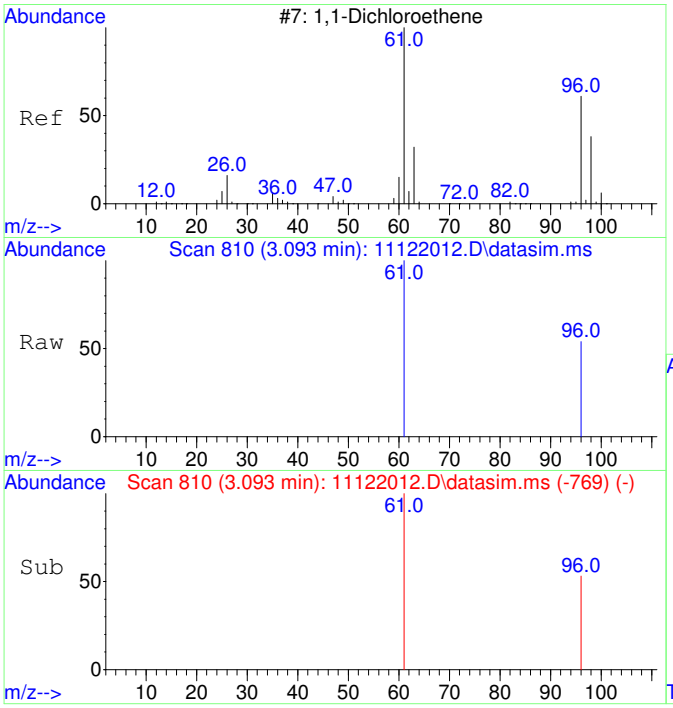


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:109 Resp: 455361

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

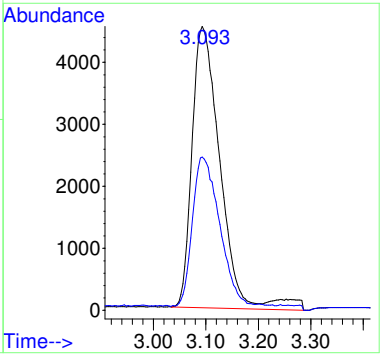




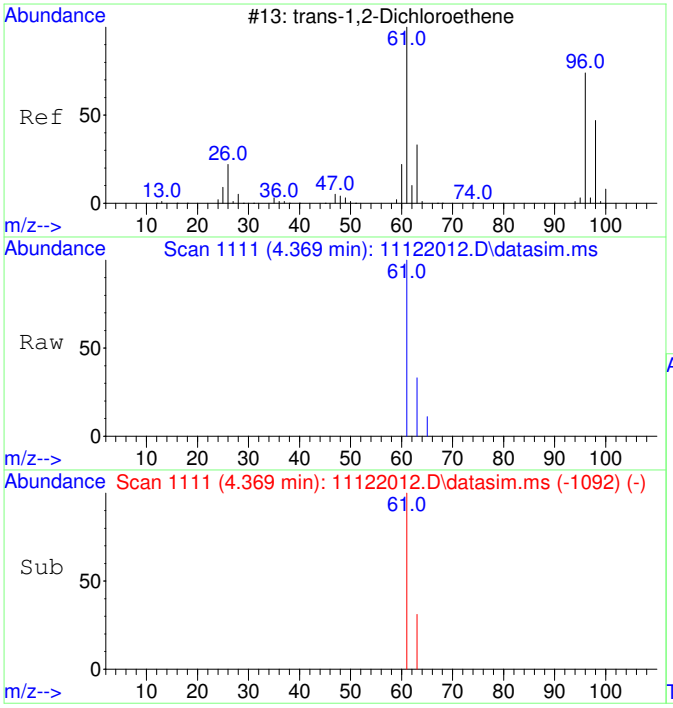
#2
1,1-Dichloroethene
Concen: 933.49 ug/L
RT: 3.093 min Scan# 810
Delta R.T. 0.004 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 61 Resp: 16974

Ion	Ratio	Lower	Upper
61	100		
96	50.8	37.2	97.2



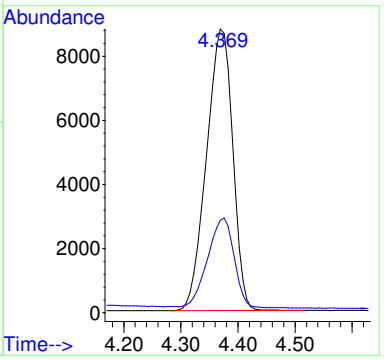
Before MI:
IMPROPER
BASELINE

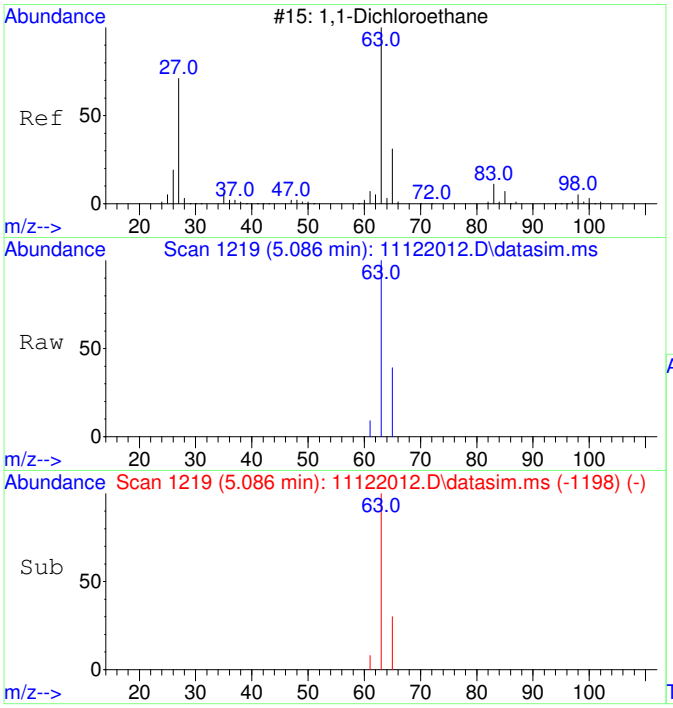


#3
trans-1,2-Dichloroethene
Concen: 1337.08 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. -0.027 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 61 Resp: 28090

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.4	62.4

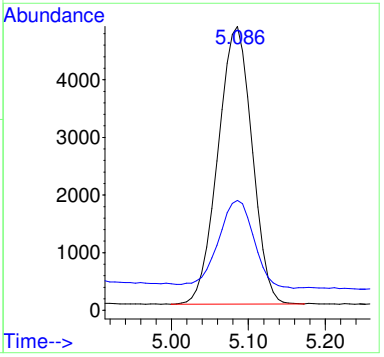


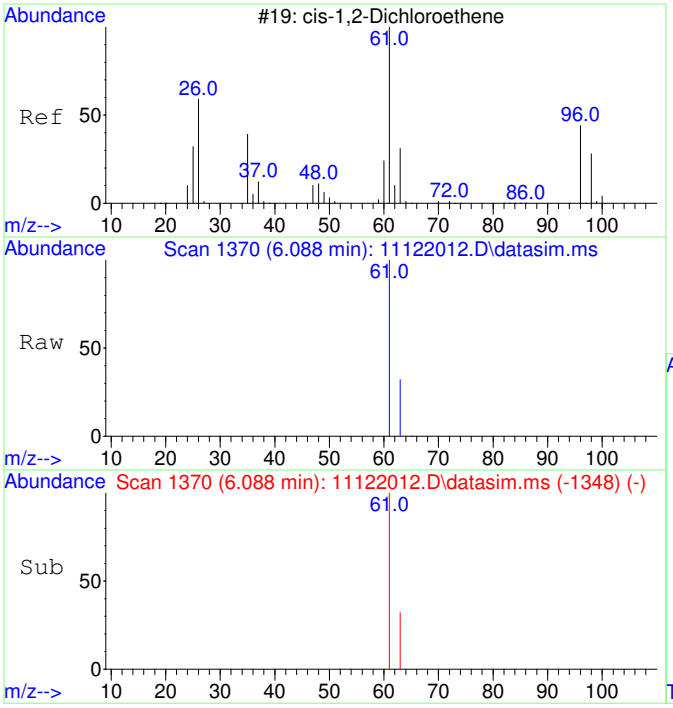


#4
1,1-Dichloroethane
Concen: 565.55 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. -0.013 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 63 Resp: 14790

Ion	Ratio	Lower	Upper
63	100		
65	33.5	1.8	61.8

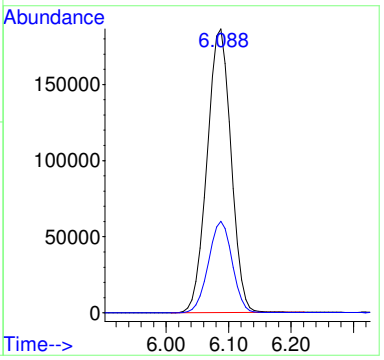


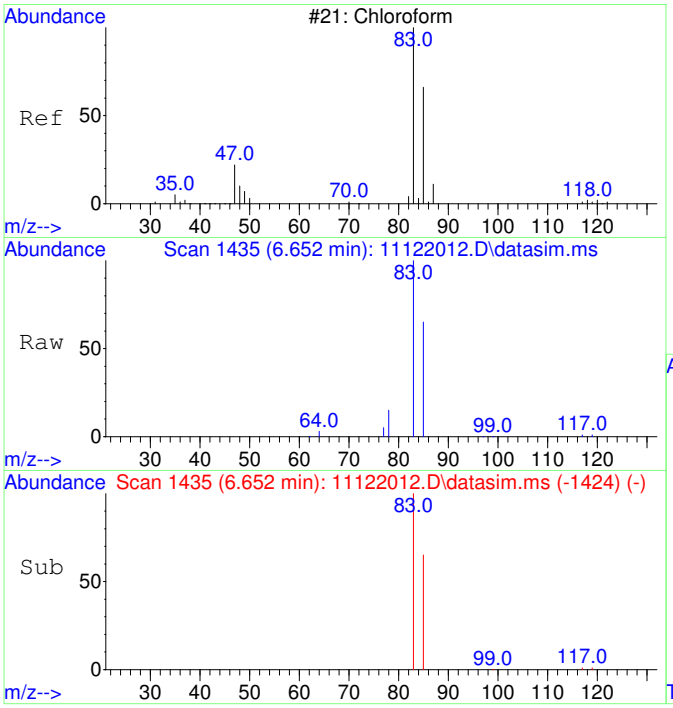


#5
cis-1,2-Dichloroethene
Concen: 17905.56 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 61 Resp: 494277

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

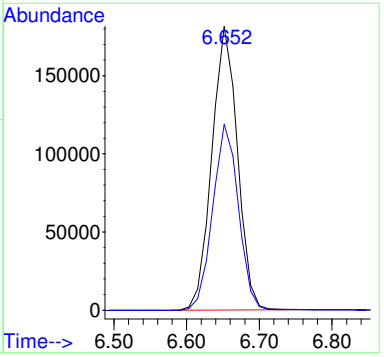


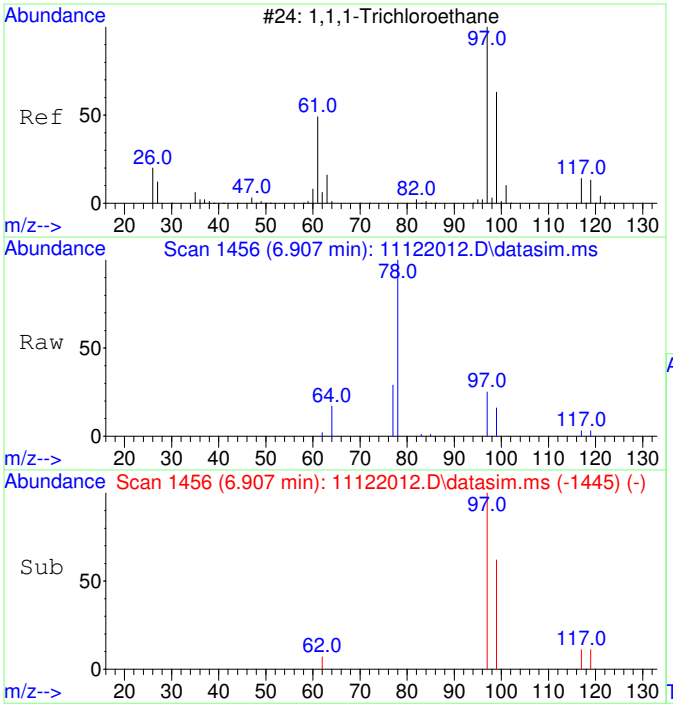


#6
Chloroform
Concen: 15722.02 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 83 Resp: 444217

Ion	Ratio	Lower	Upper
83	100		
85	65.5	35.1	95.1

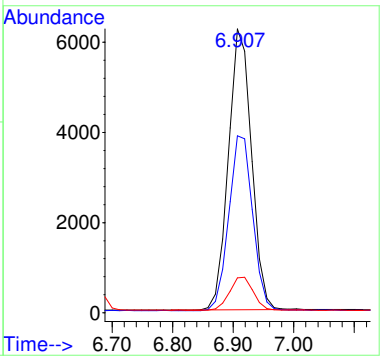


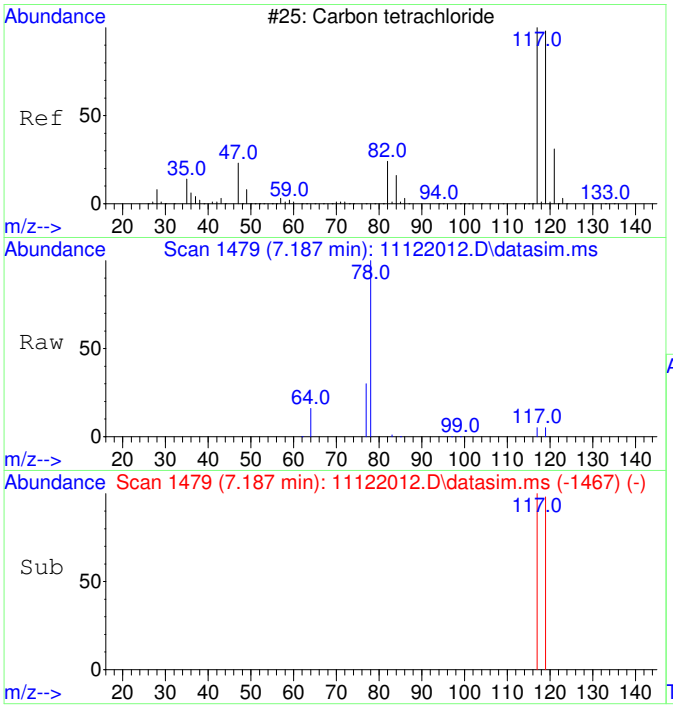


#7
1,1,1-Trichloroethane
Concen: 539.91 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 97 Resp: 16567

Ion	Ratio	Lower	Upper
97	100		
99	64.1	34.6	94.6
117	12.1	0.0	43.2

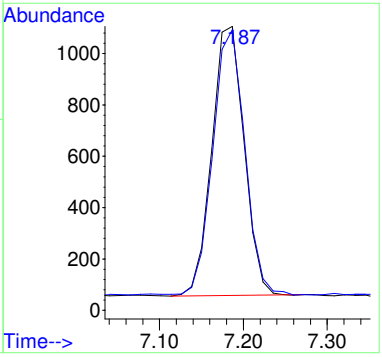


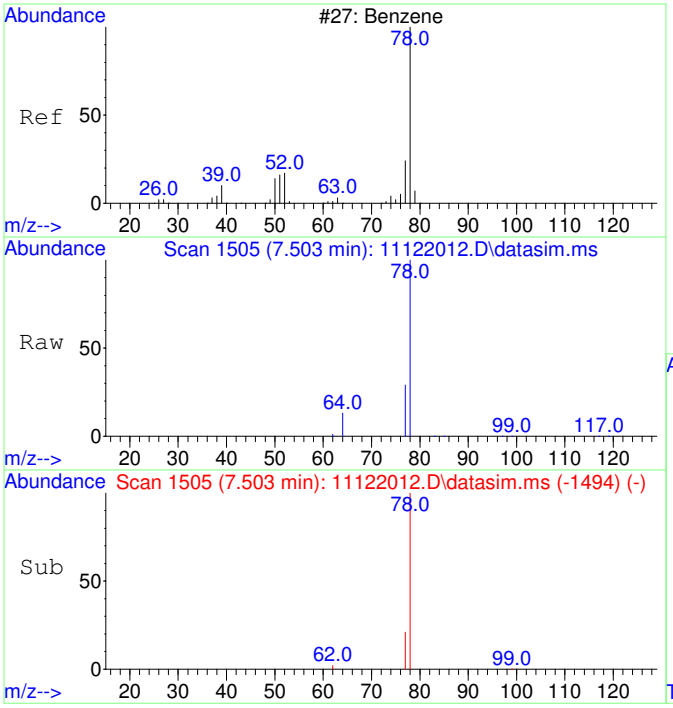


#8
Carbon tetrachloride
Concen: 97.05 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:117 Resp: 2803

Ion	Ratio	Lower	Upper
117	100		
119	97.8	66.4	126.4

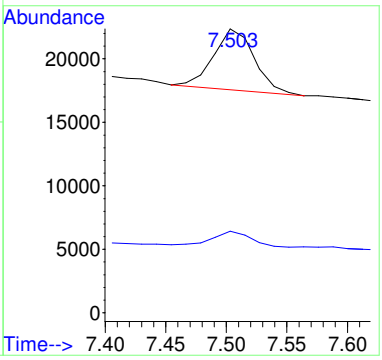


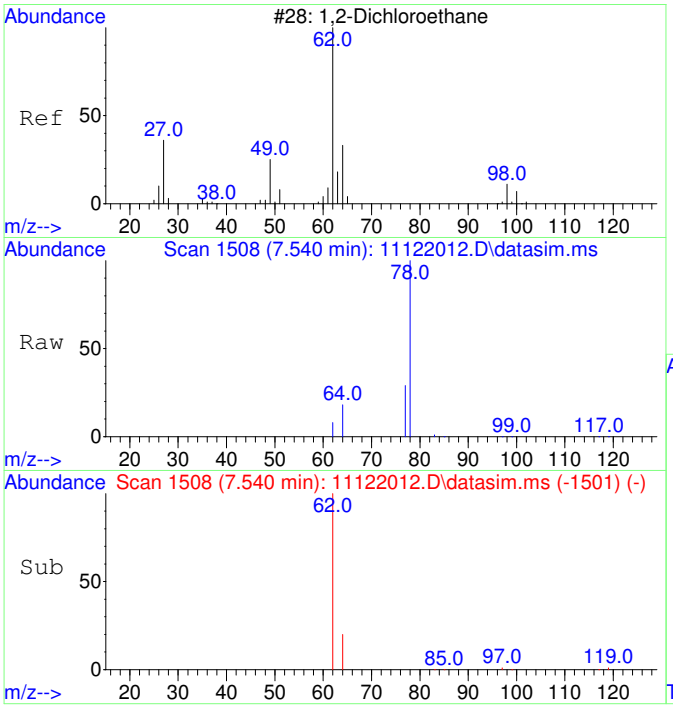


#9
Benzene
Concen: 142.09 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 78 Resp: 10993

Ion	Ratio	Lower	Upper
78	100		
77	39.3	0.0	53.2

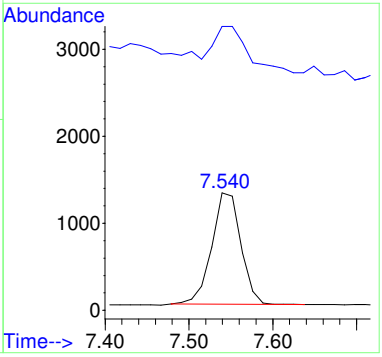


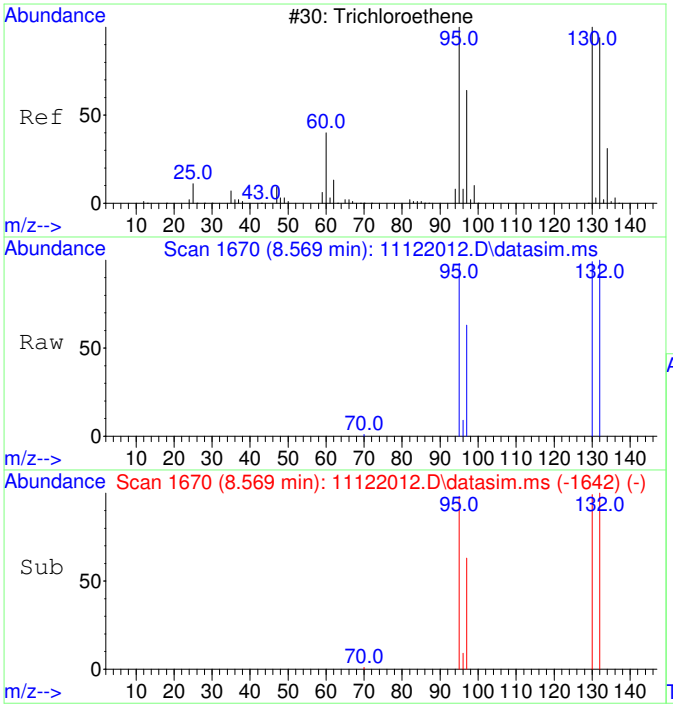


#10
1,2-Dichloroethane
Concen: 111.52 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 62 Resp: 3080

Ion	Ratio	Lower	Upper
62	100		
64	58.2	2.3	62.3

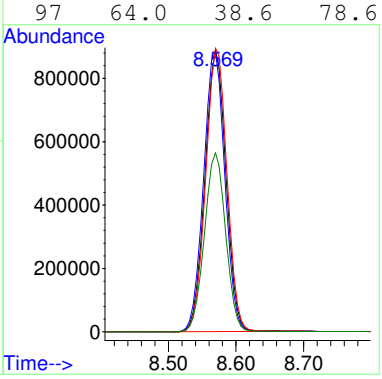


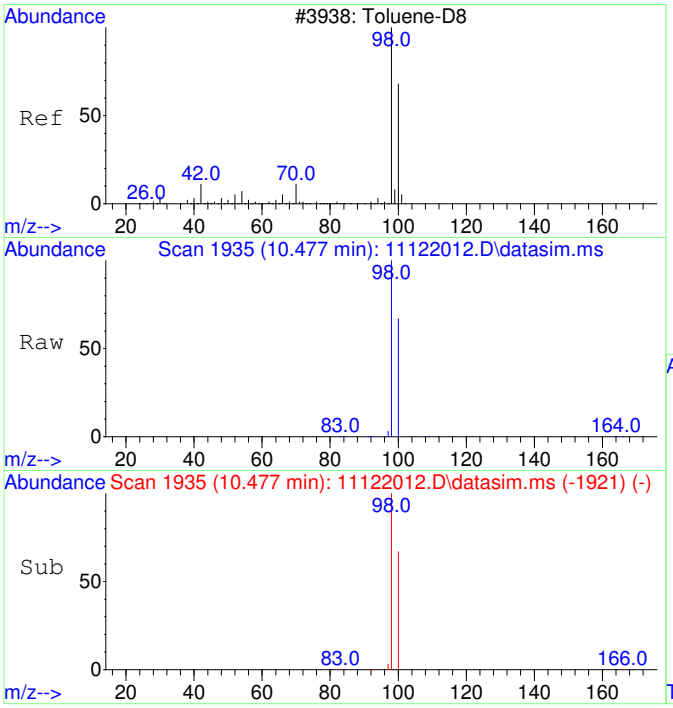


#11
Trichloroethene
Concen: 82469.32 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:130 Resp: 1921090

Ion	Ratio	Lower	Upper
130	100		
95	100.3	60.7	120.7
132	101.3	76.0	116.0
97	64.0	38.6	78.6

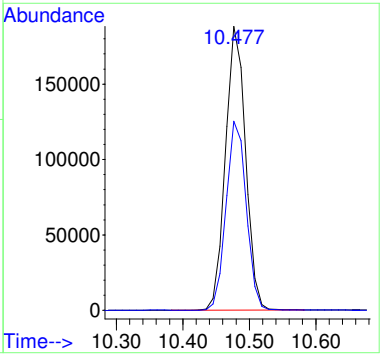


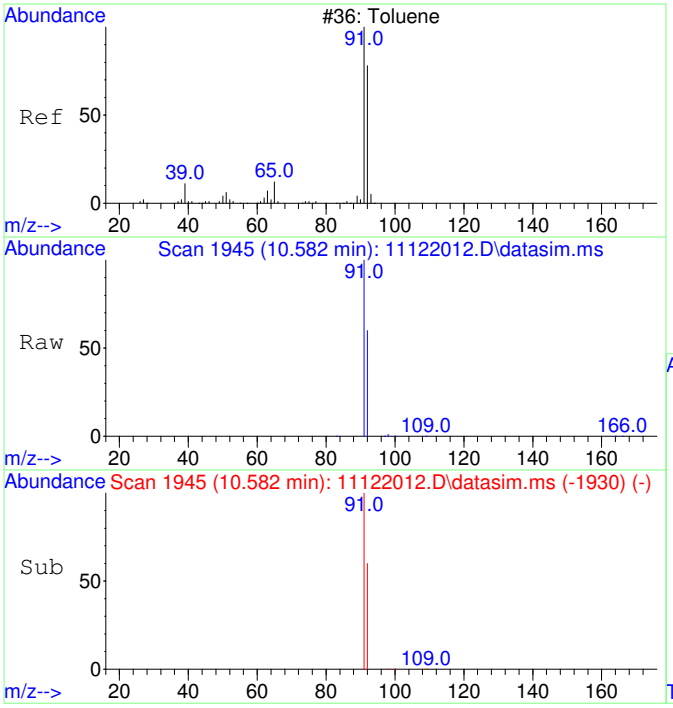


#12
Toluene-d8
Concen: 4408.48 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 98 Resp: 392980

Ion	Ratio	Lower	Upper
98	100		
100	66.9	37.1	97.1

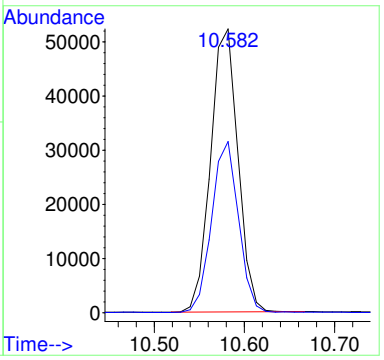


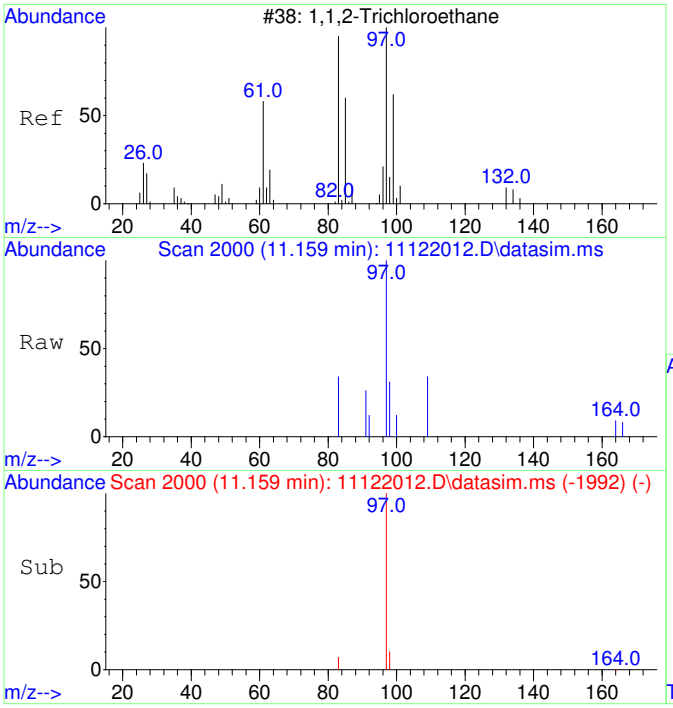


#13
Toluene
Concen: 972.05 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 110471

Ion	Ratio	Lower	Upper
91	100		
92	59.1	29.9	89.9

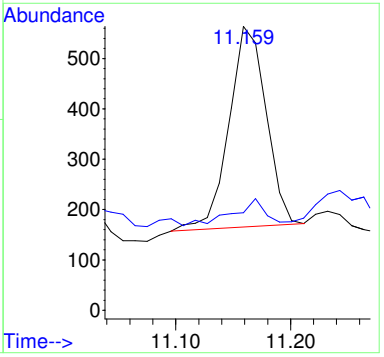


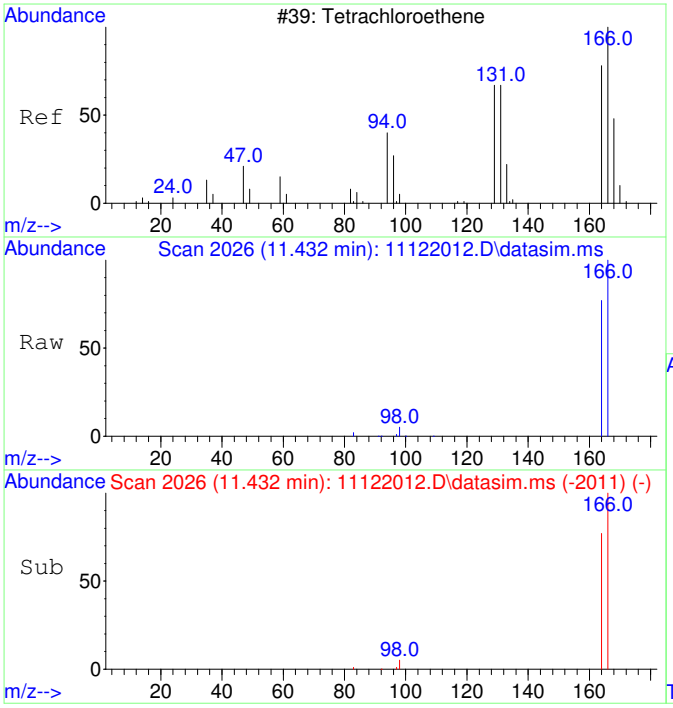


#14
1,1,2-Trichloroethane
Concen: 36.34 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 97 Resp: 900

Ion	Ratio	Lower	Upper
97	100		
83	11.7	51.2	111.2#

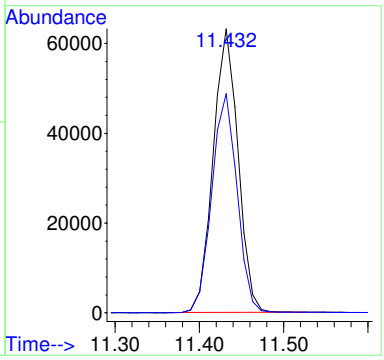


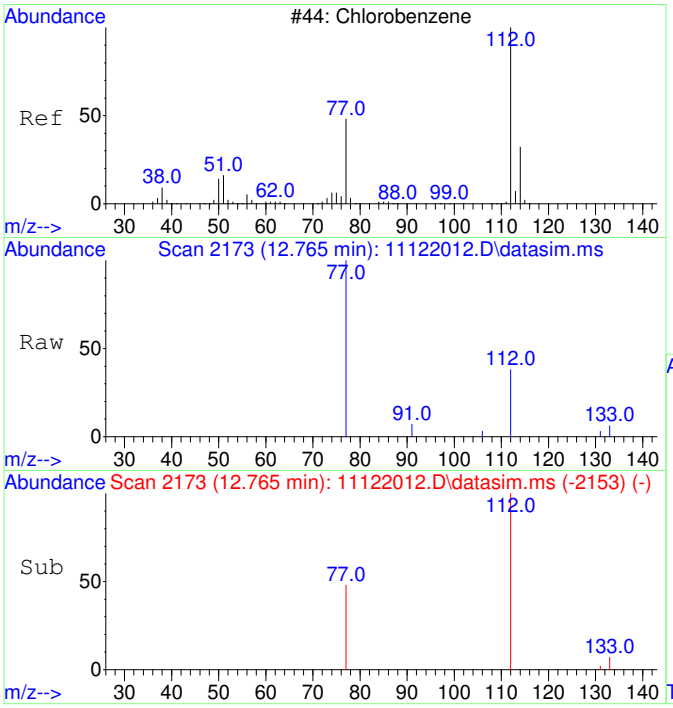


#15
Tetrachloroethene
Concen: 3945.04 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:166 Resp: 129750

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

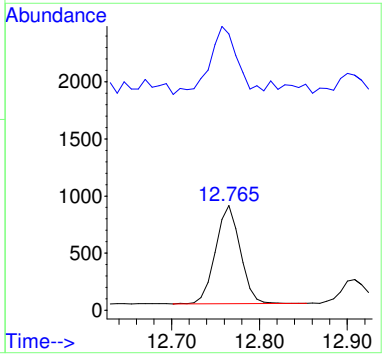


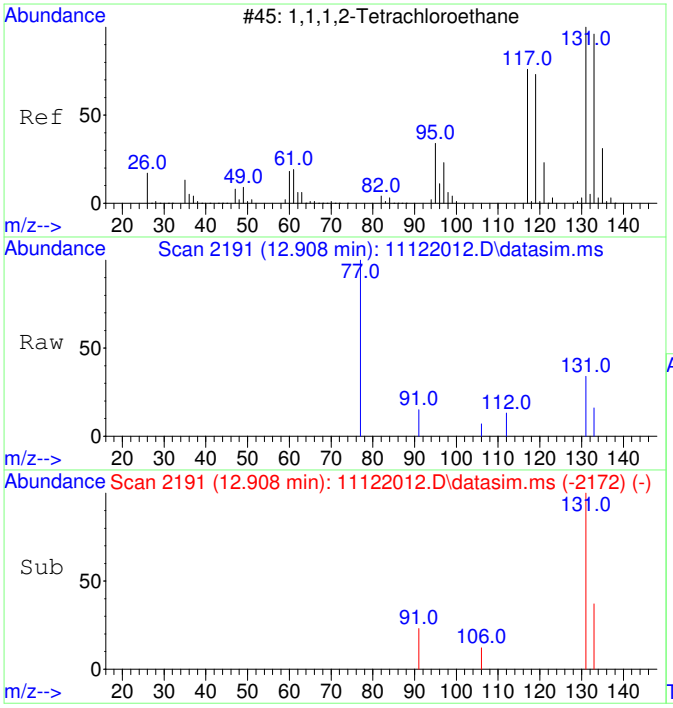


#16
Chlorobenzene
Concen: 20.66 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:112 Resp: 1681

Ion	Ratio	Lower	Upper
112	100		
77	77.6	23.6	83.6

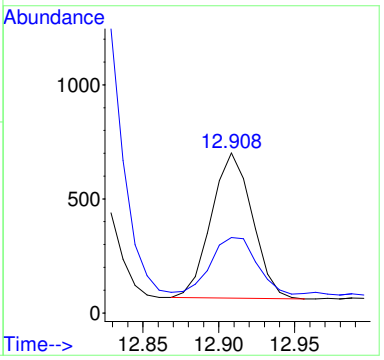


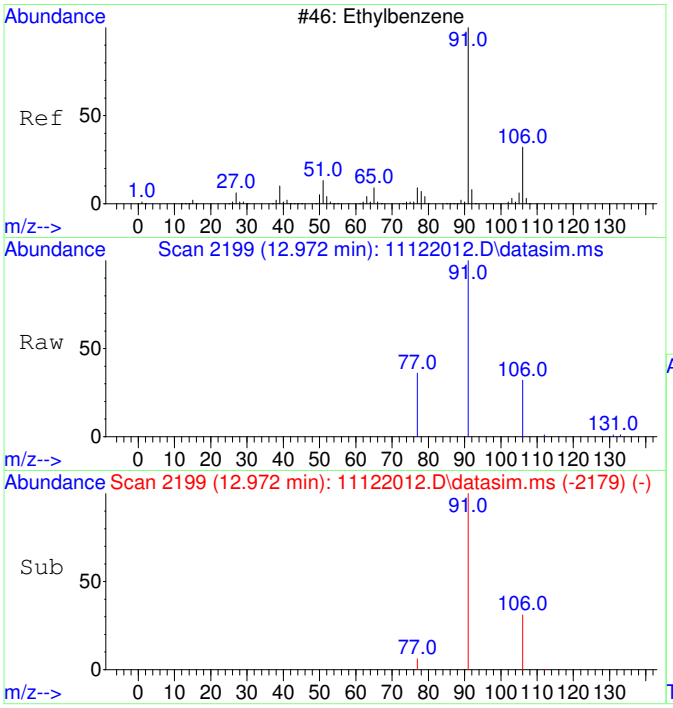


#17
1,1,1,2-Tetrachloroethane
Concen: 41.12 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:131 Resp: 1199

Ion	Ratio	Lower	Upper
131	100		
133	43.2	66.3	126.3#

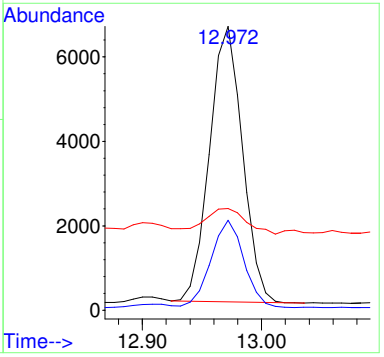


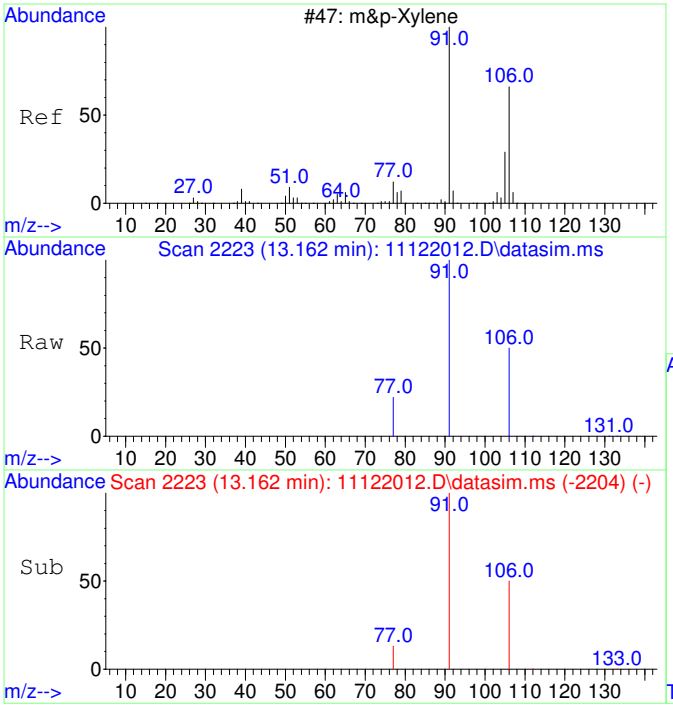


#18
Ethylbenzene
Concen: 90.60 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 12533

Ion	Ratio	Lower	Upper
91	100		
106	32.0	3.0	63.0
77	11.5	0.0	38.2

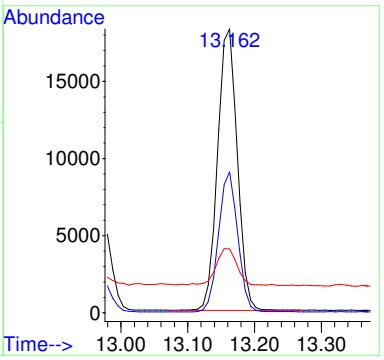


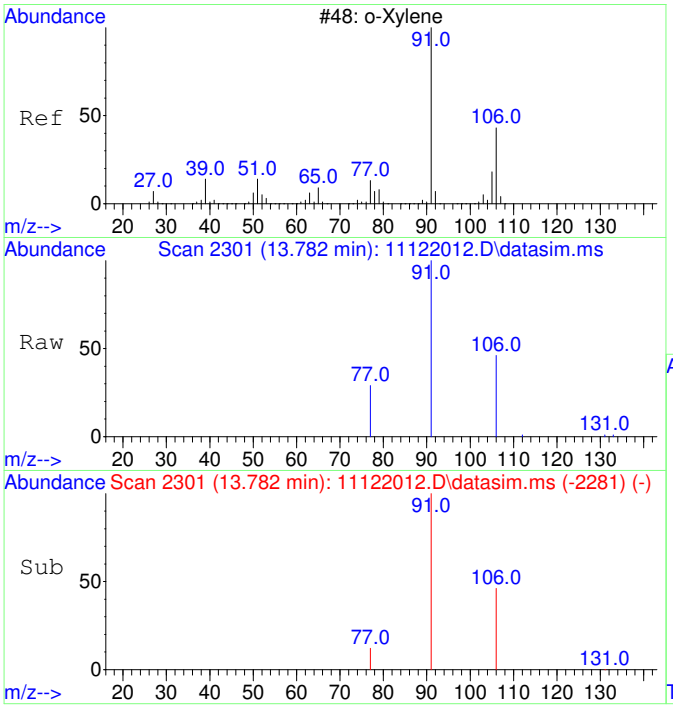


#19
m&p-Xylene
Concen: 345.53 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 37357

Ion	Ratio	Lower	Upper
91	100		
106	48.4	22.2	82.2
77	14.2	0.0	42.4

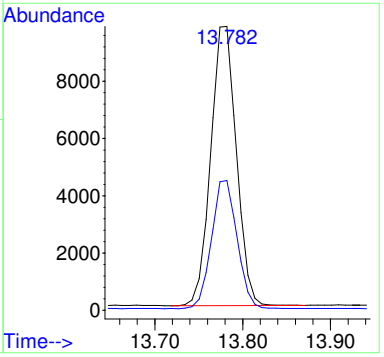


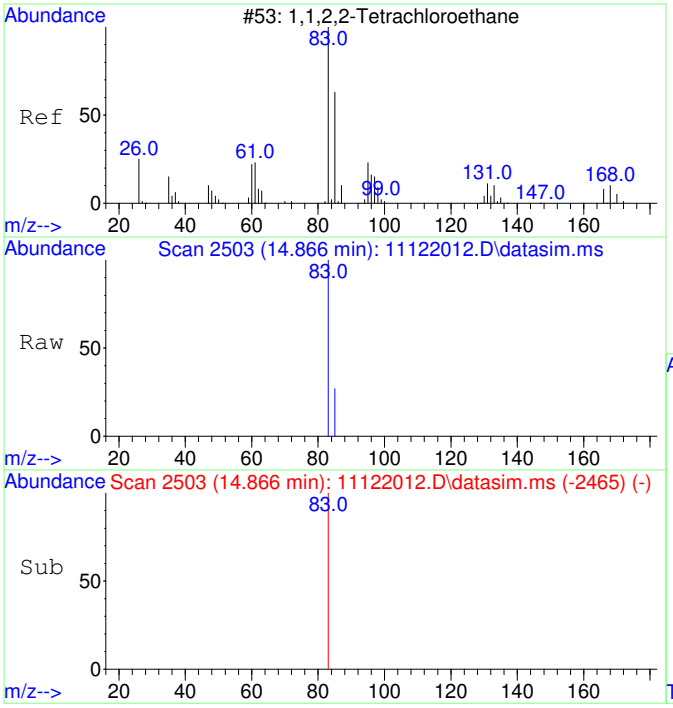


#20
o-Xylene
Concen: 171.31 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 19788

Ion	Ratio	Lower	Upper
91	100		
106	45.8	19.2	79.2

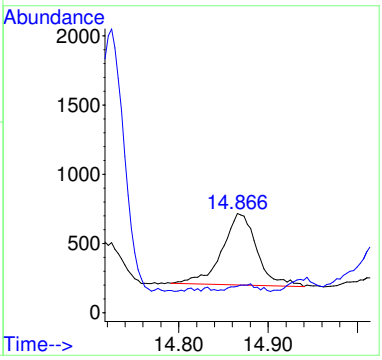


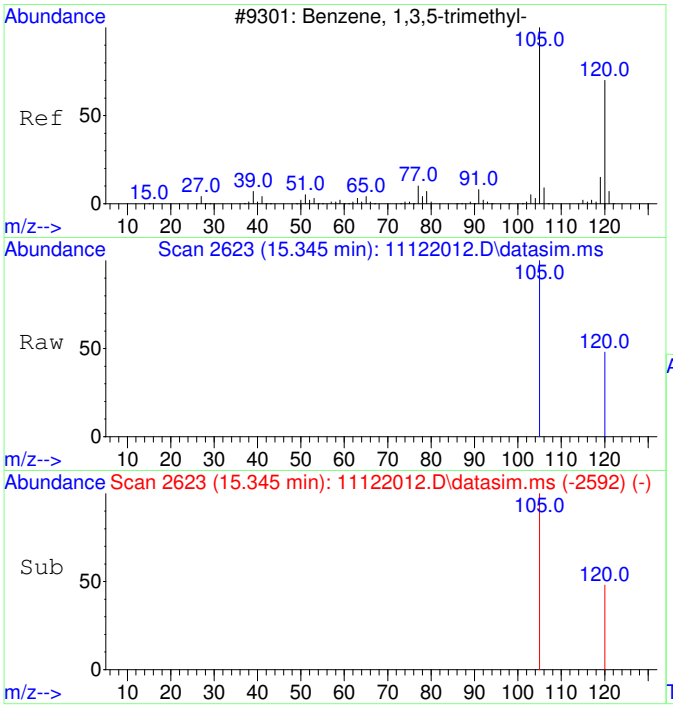


#21
1,1,2,2-Tetrachloroethane
Concen: 27.15 ug/L
RT: 14.866 min Scan# 2503
Delta R.T. -0.007 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 83 Resp: 1390

Ion	Ratio	Lower	Upper
83	100		
85	6.8	34.8	94.8#

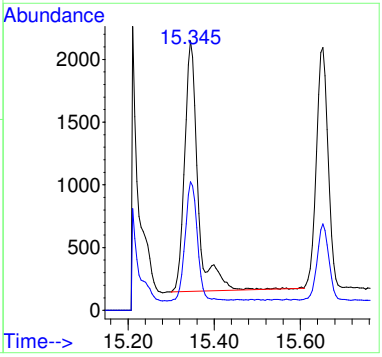


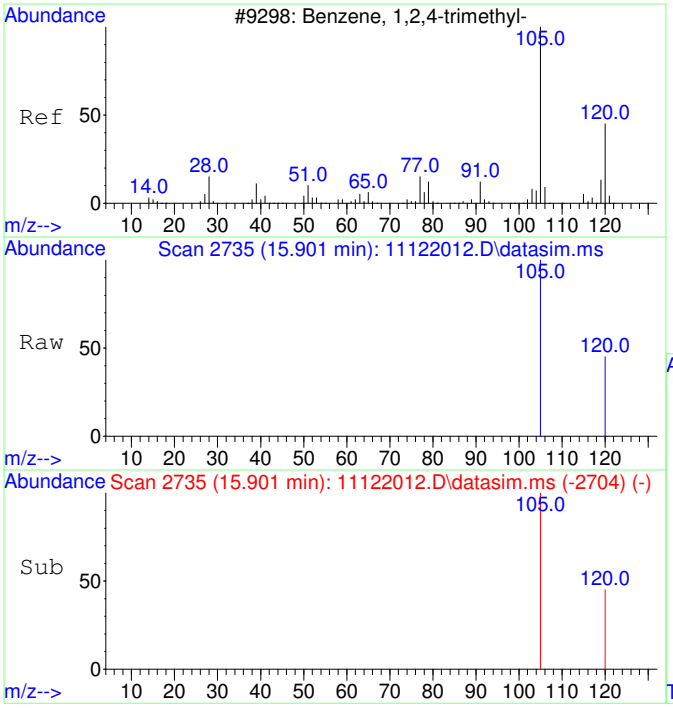


#22
1,3,5-Trimethylbenzene
Concen: 34.66 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:105 Resp: 4261

Ion	Ratio	Lower	Upper
105	100		
120	40.1	21.1	81.1

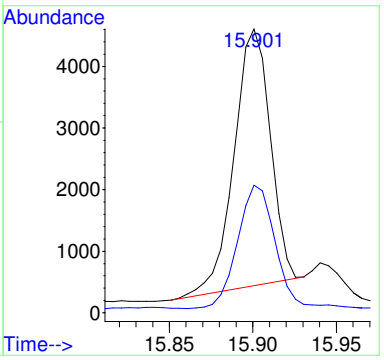


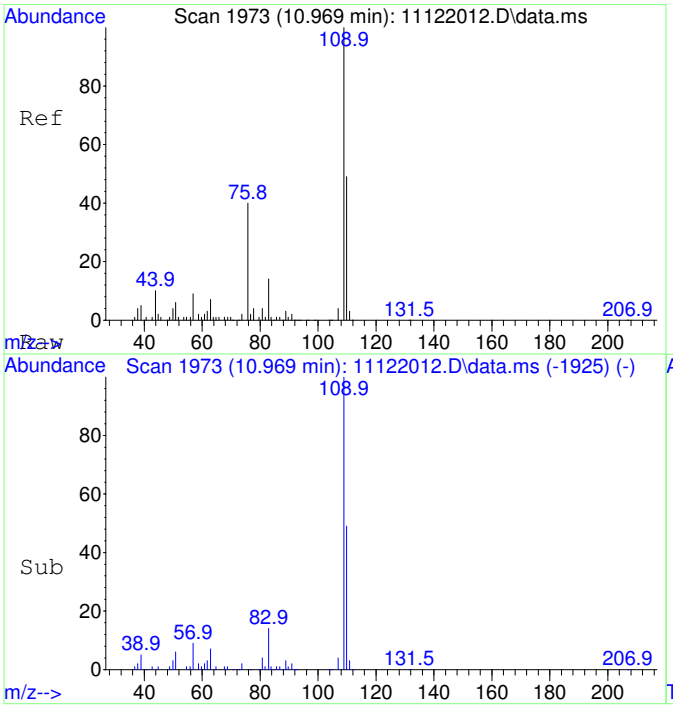


#23
1,2,4-Trimethylbenzene
Concen: 49.55 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:105 Resp: 6328

Ion	Ratio	Lower	Upper
105	100		
120	50.1	17.2	77.2

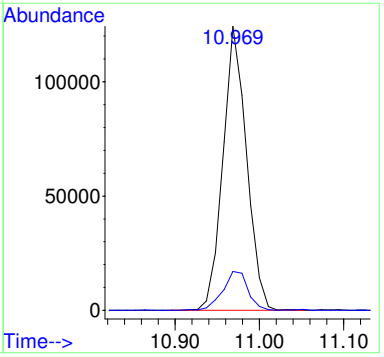


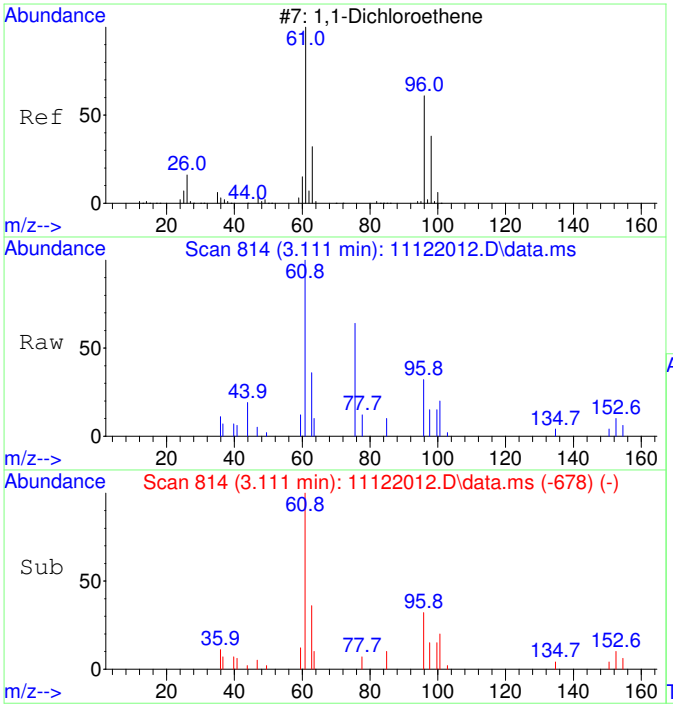


#25
2-Fluorotoluene SCAN
Concen: 5455.10 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:109 Resp: 242148

Ion	Ratio	Lower	Upper
109	100		
83	14.7	0.0	43.8

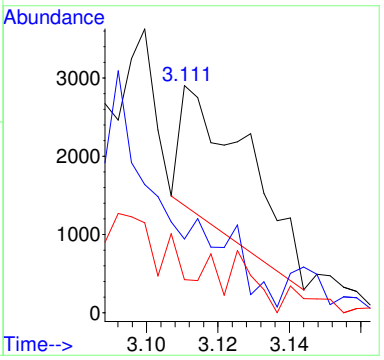


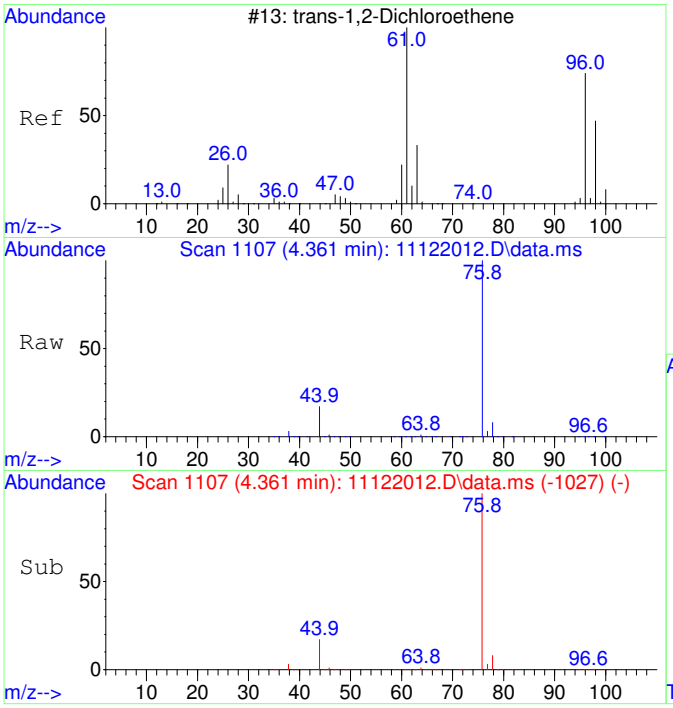


#26
1,1-Dichloroethene SCAN
Concen: 229.87 ug/L
RT: 3.111 min Scan# 814
Delta R.T. 0.004 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 61 Resp: 2167

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.1	93.1#
98	3.5	11.2	71.2#

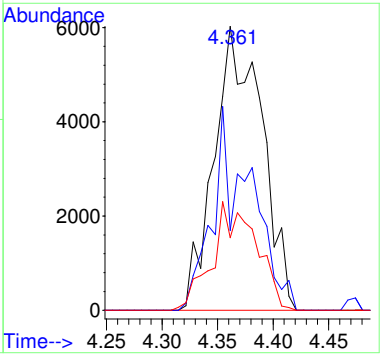


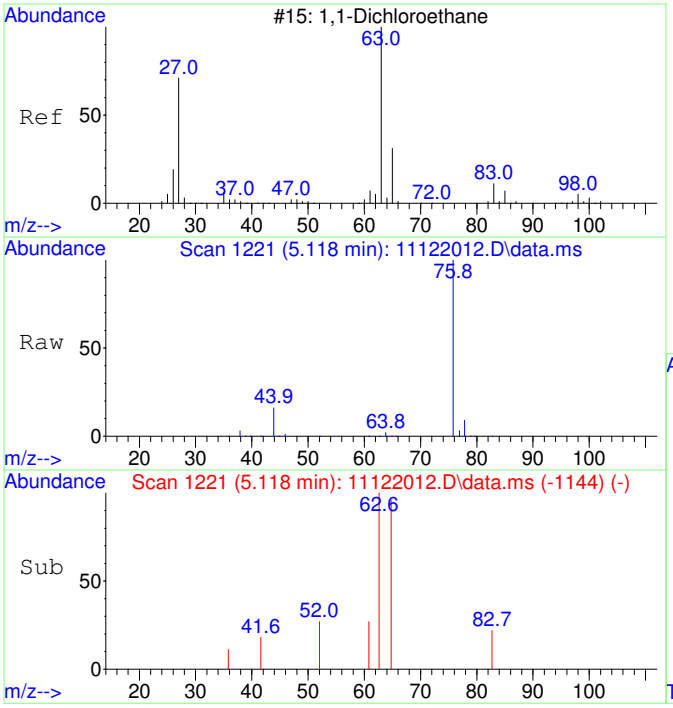


#27
trans-1,2-Dichloroethene SCAN
Concen: 1547.76 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. -0.040 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 61 Resp: 18055

Ion	Ratio	Lower	Upper
61	100		
96	56.9	49.0	109.0
98	35.1	20.5	80.5

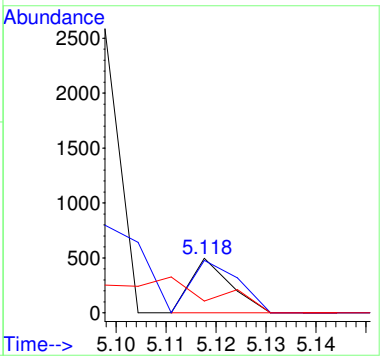


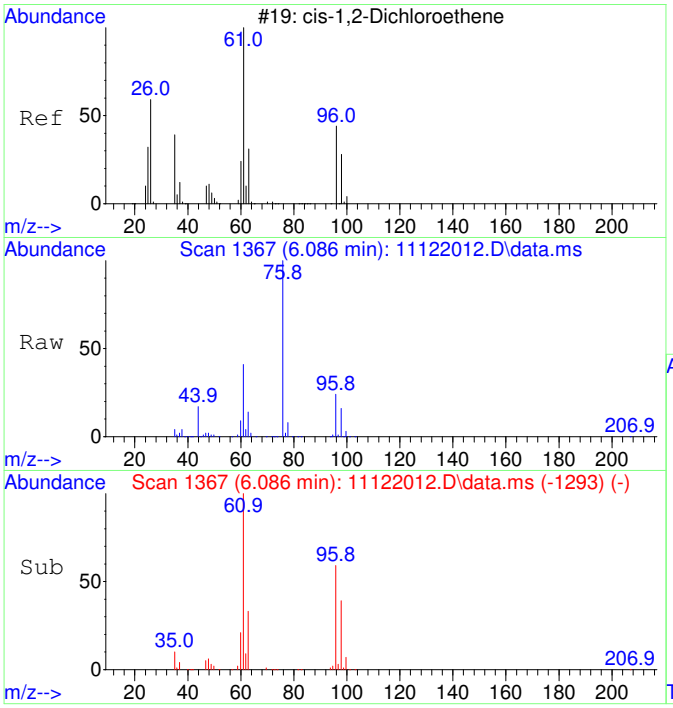


#28
1,1-Dichloroethane SCAN
Concen: 20.44 ug/L
RT: 5.118 min Scan# 1221
Delta R.T. 0.013 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 63 Resp: 276

Ion	Ratio	Lower	Upper
63	100		
65	0.0	1.3	61.3#
83	121.7	0.0	45.9#

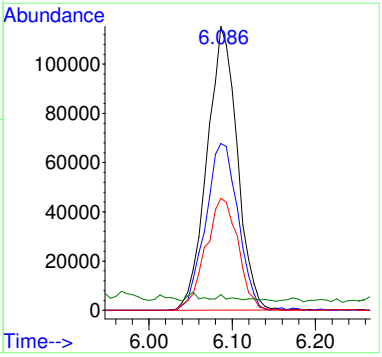


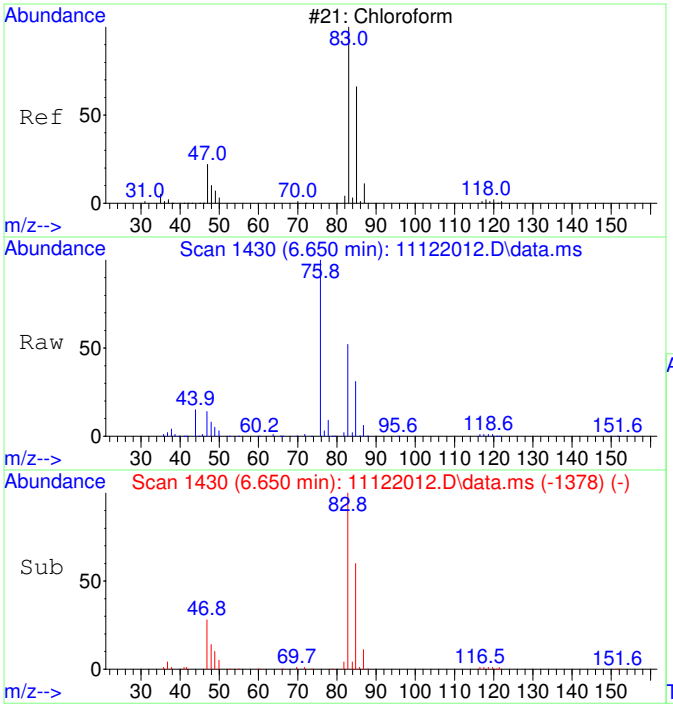


#29
cis-1,2-Dichloroethene SCAN
Concen: 20122.45 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 61 Resp: 291056

Ion	Ratio	Lower	Upper
61	100		
96	62.8	39.9	99.9
98	42.4	13.5	73.5
64	0.0	4.5	64.5#

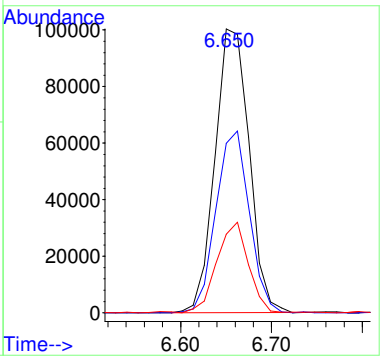


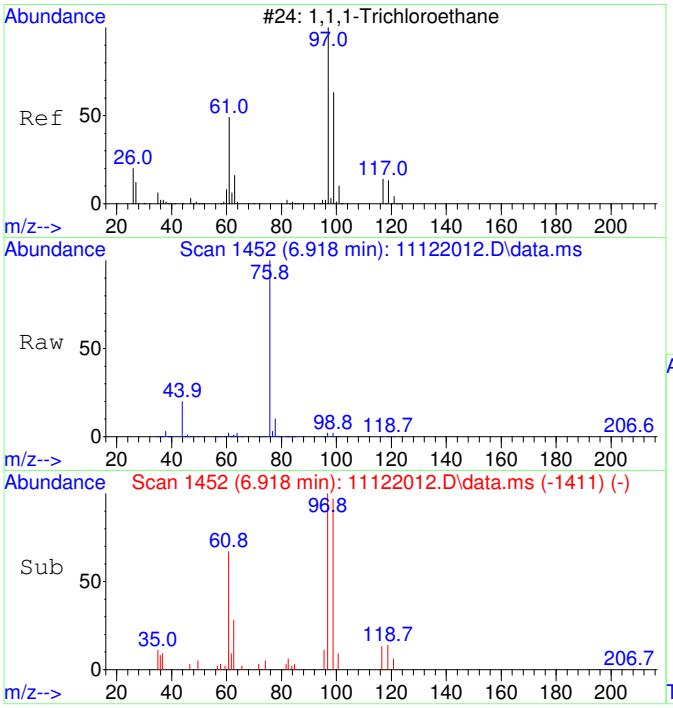


#30
Chloroform SCAN
Concen: 16776.19 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 83 Resp: 263193

Ion	Ratio	Lower	Upper
83	100		
85	62.8	34.6	94.6
47	29.9	0.0	53.4

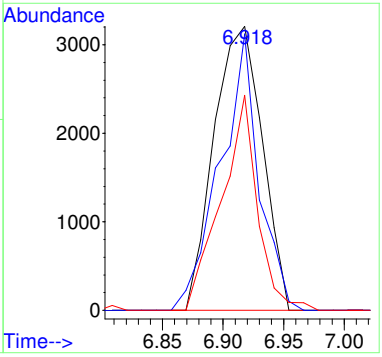


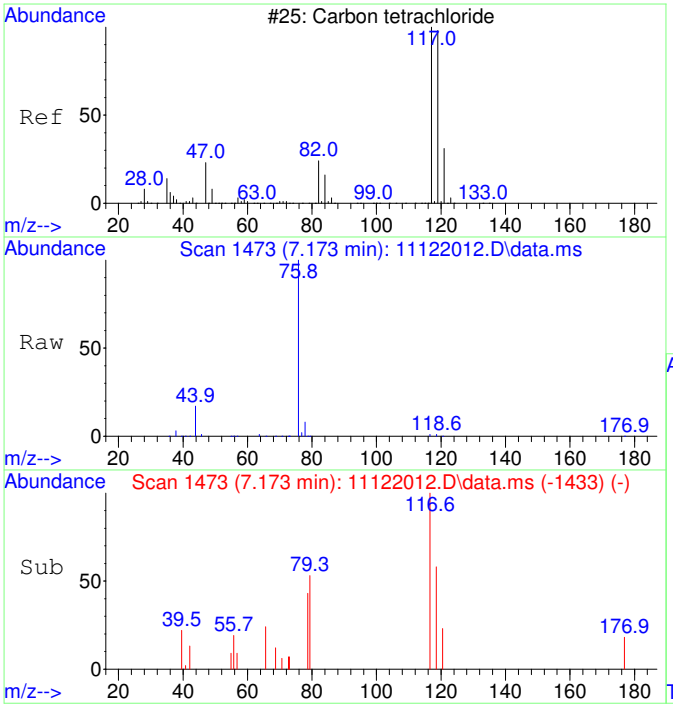


#31
1,1,1-Trichloroethane SCAN
Concen: 626.02 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 97 Resp: 8950

Ion	Ratio	Lower	Upper
97	100		
99	78.1	43.6	103.6
61	56.7	18.0	78.0

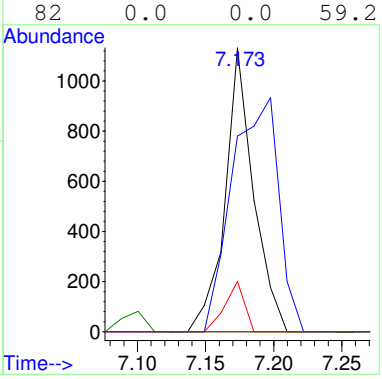


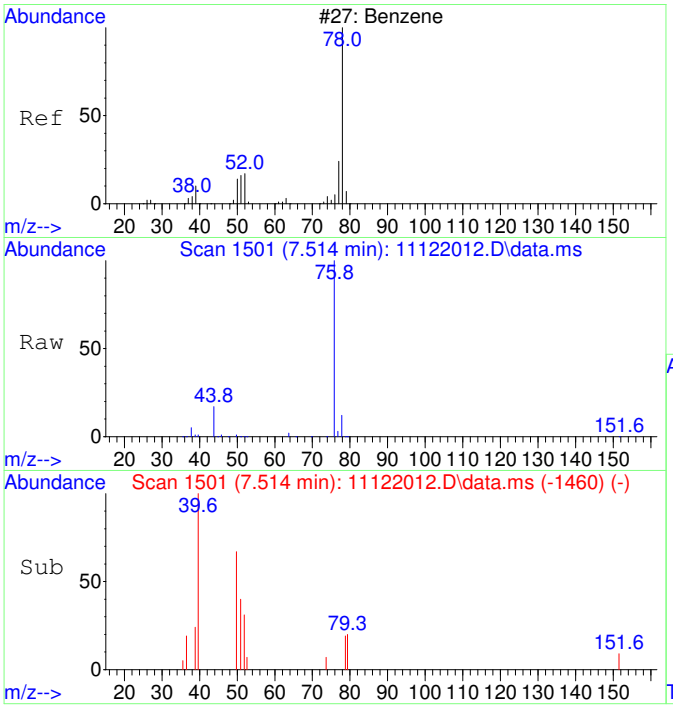


#32
Carbon tetrachloride SCAN
Concen: 110.44 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.012 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:117 Resp: 1647

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	12.2	0.0	58.8
82	0.0	0.0	59.2

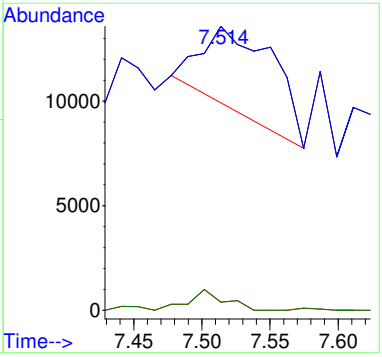


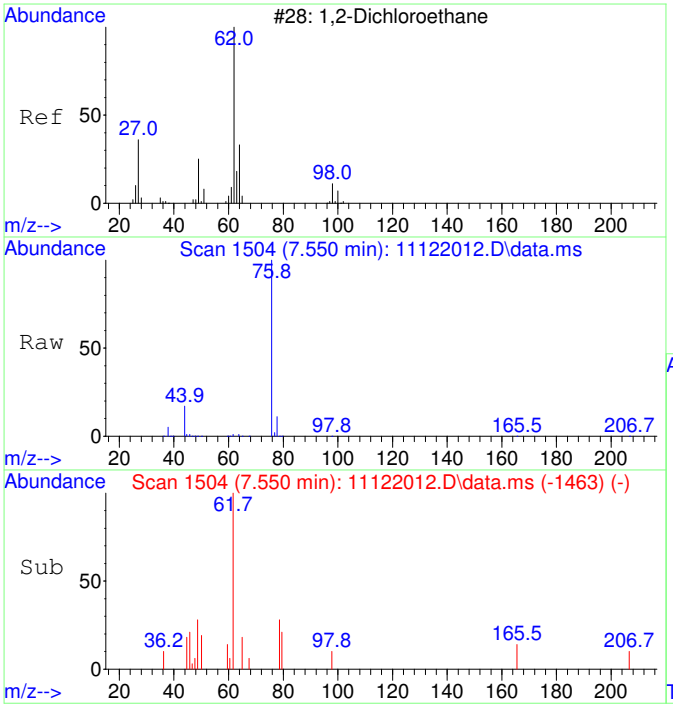


#33
Benzene SCAN
Concen: 346.66 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 78 Resp: 13646

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	13.1	0.0	47.9
51	13.1	0.0	44.1

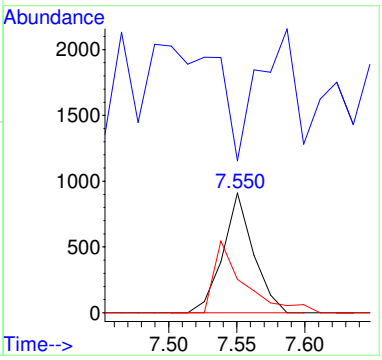


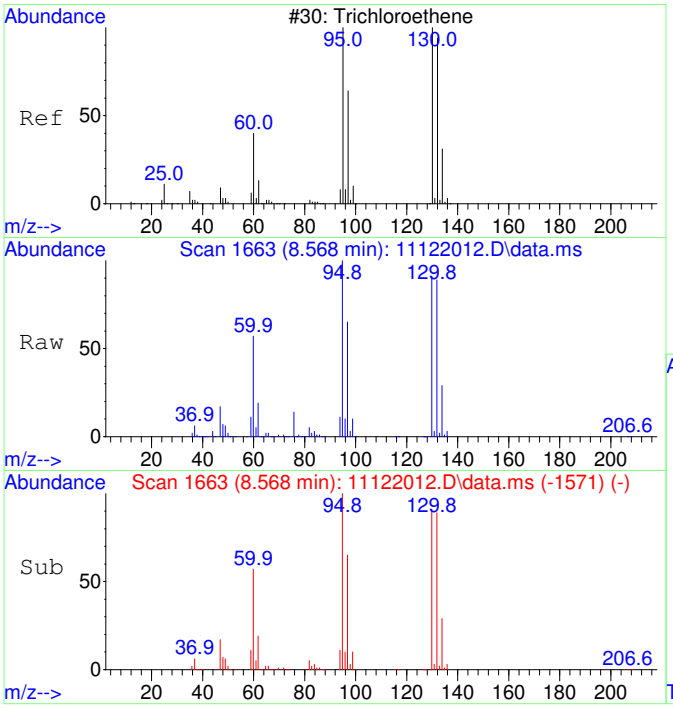


#34
1,2-Dichloroethane SCAN
Concen: 98.24 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 62 Resp: 1428

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	59.5	3.9	63.9

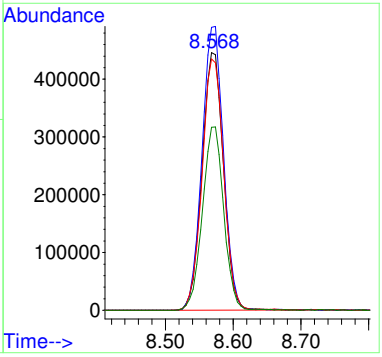


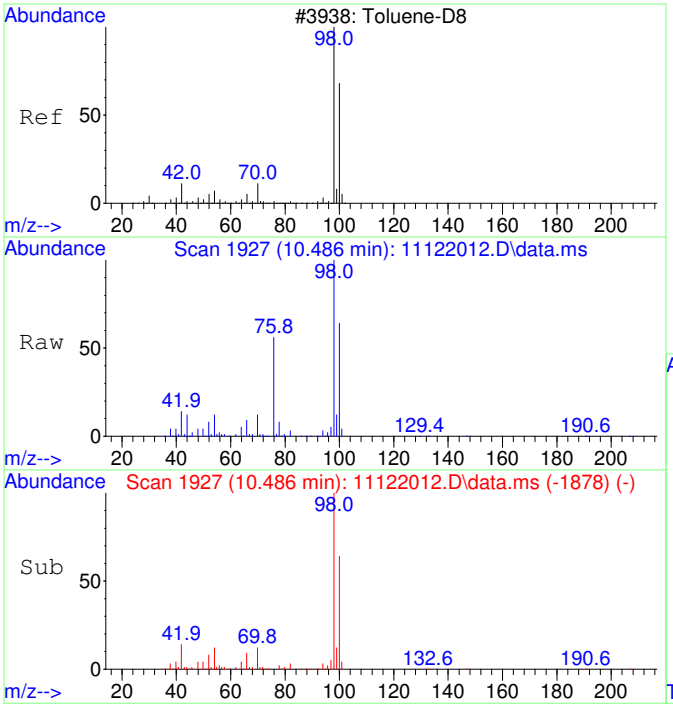


#35
Trichloroethene SCAN
Concen: 90811.51 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:130 Resp: 982351

Ion	Ratio	Lower	Upper
130	100		
95	110.1	60.5	120.5
132	98.6	59.6	119.6
97	70.8	28.2	88.2

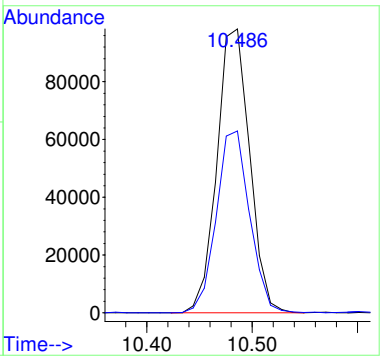


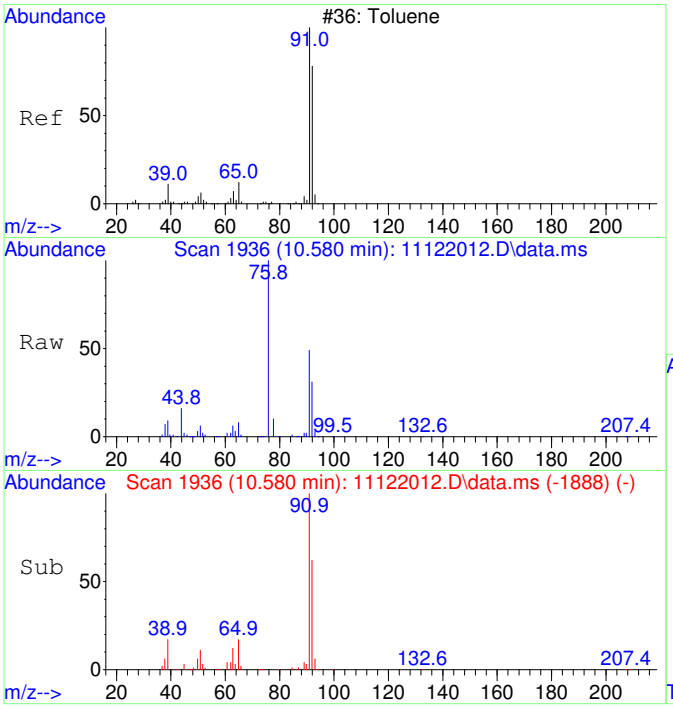


#36
Toluene-d8 SCAN
Concen: 4905.14 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 98 Resp: 212939

Ion	Ratio	Lower	Upper
98	100		
100	65.3	40.0	100.0

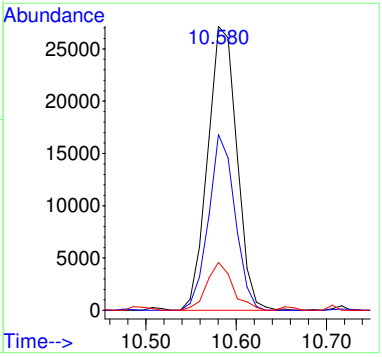


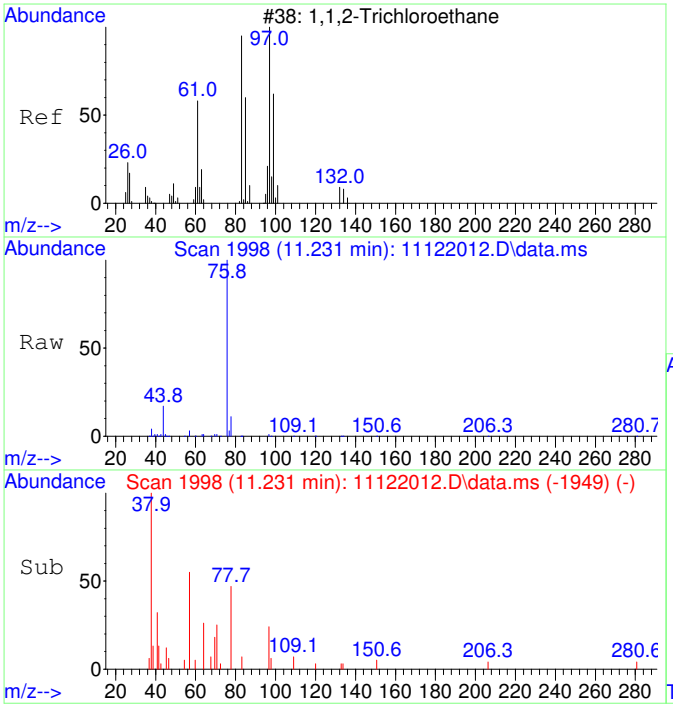


#37
Toluene SCAN
Concen: 1097.03 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 60989

Ion	Ratio	Lower	Upper
91	100		
92	56.2	28.3	88.3
65	14.9	0.0	41.0

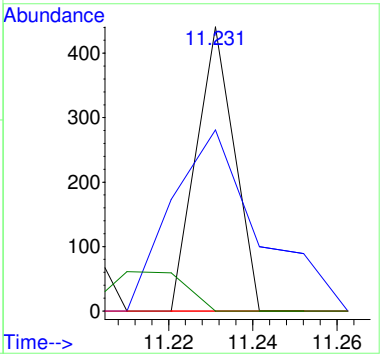


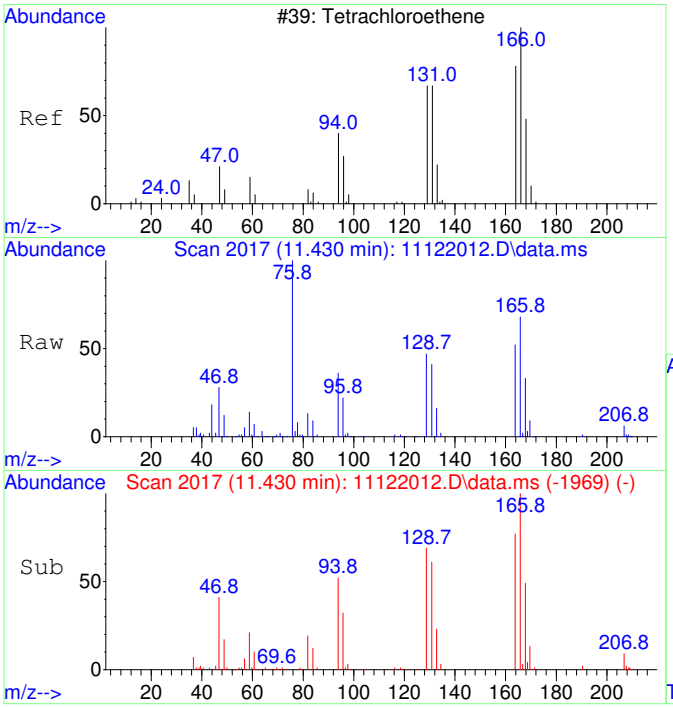


#38
1,1,2-Trichloroethane SCAN
Concen: 22.28 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. 0.011 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 97 Resp: 278

Ion	Ratio	Lower	Upper
97	100		
83	145.7	57.7	117.7#
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

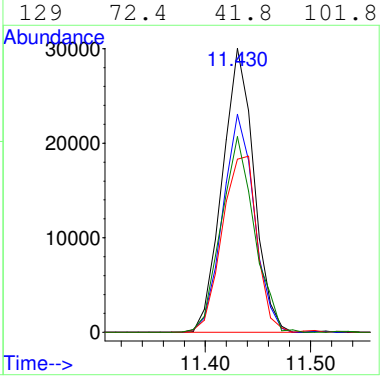


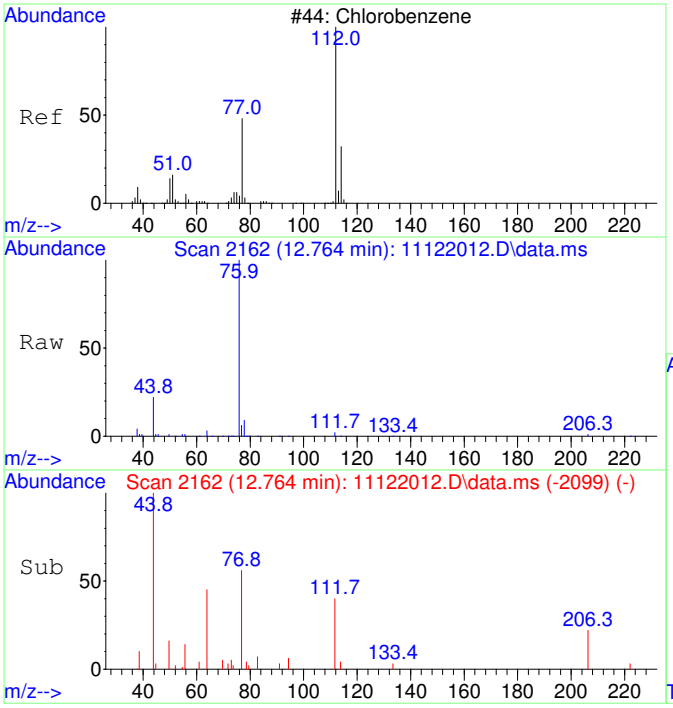


#39
Tetrachloroethene SCAN
Concen: 4698.17 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:166 Resp: 62751

Ion	Ratio	Lower	Upper
166	100		
164	76.9	50.9	110.9
131	69.0	38.7	98.7
129	72.4	41.8	101.8

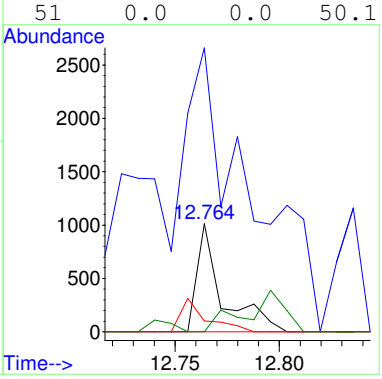


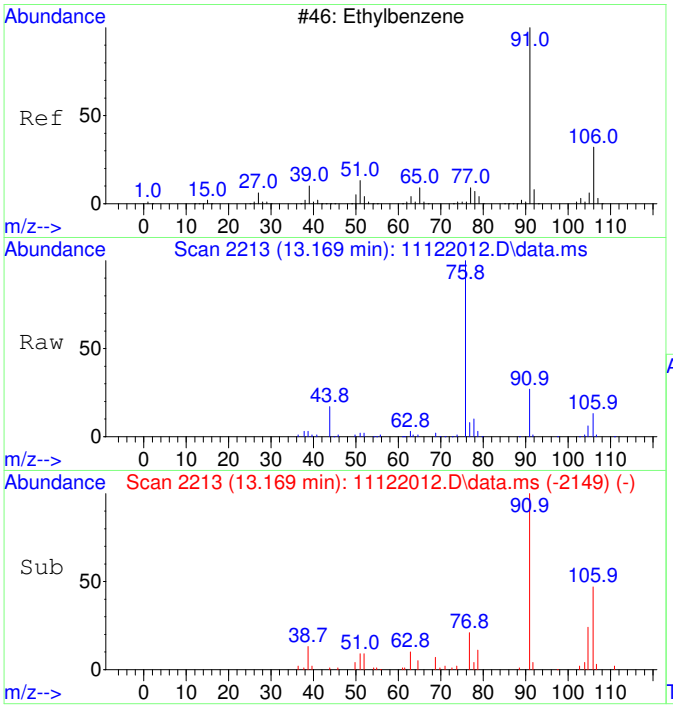


#40
Chlorobenzene SCAN
Concen: 22.37 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:112 Resp: 850

Ion	Ratio	Lower	Upper
112	100		
77	482.7	28.2	88.2#
114	31.8	2.3	62.3
51	0.0	0.0	50.1

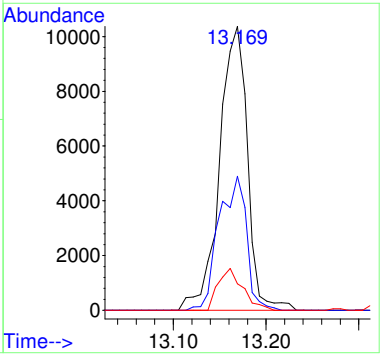


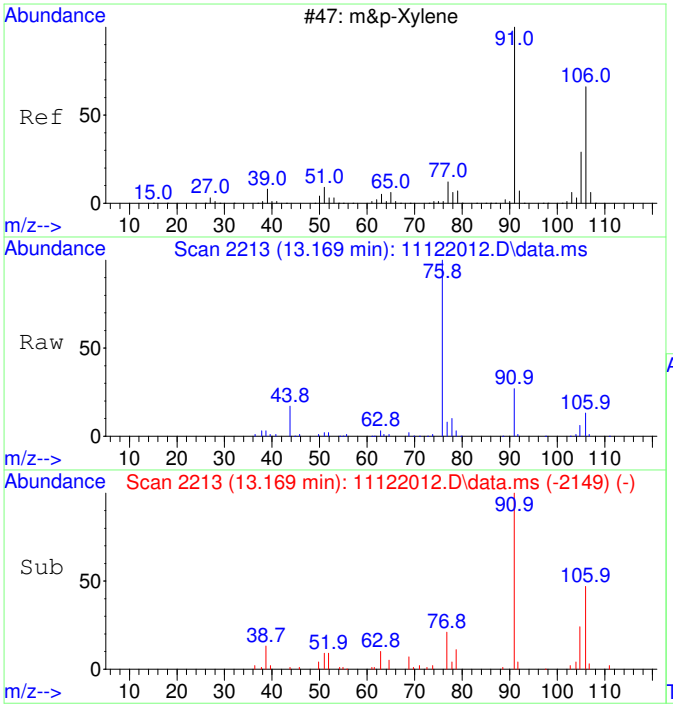


#42
Ethylbenzene SCAN
Concen: 214.35 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 21710

Ion	Ratio	Lower	Upper
91	100		
106	46.9	23.1	83.1
51	13.1	0.0	40.1

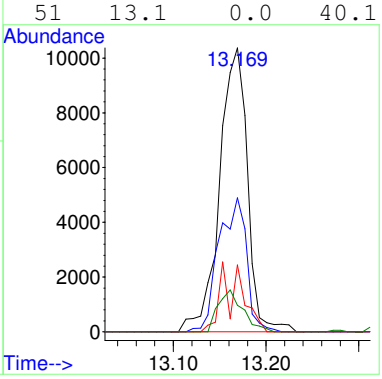


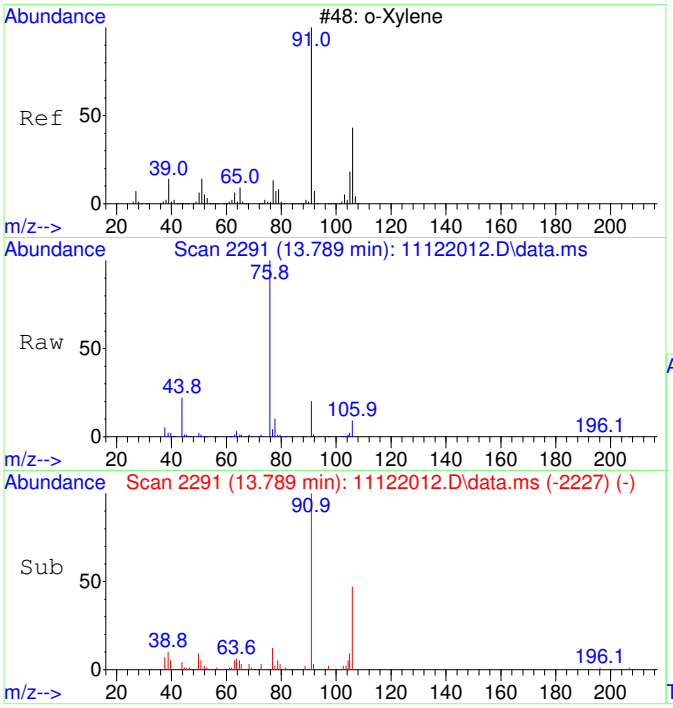


#43
m&p-Xylene SCAN
Concen: 214.35 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 21710

Ion	Ratio	Lower	Upper
91	100		
106	46.9	23.1	83.1
105	5.9	0.0	54.7
51	13.1	0.0	40.1

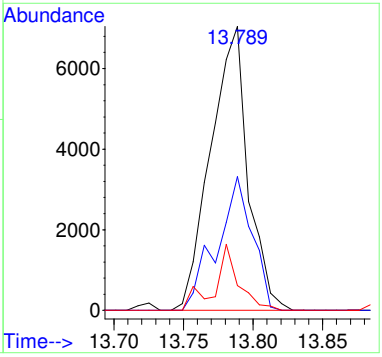


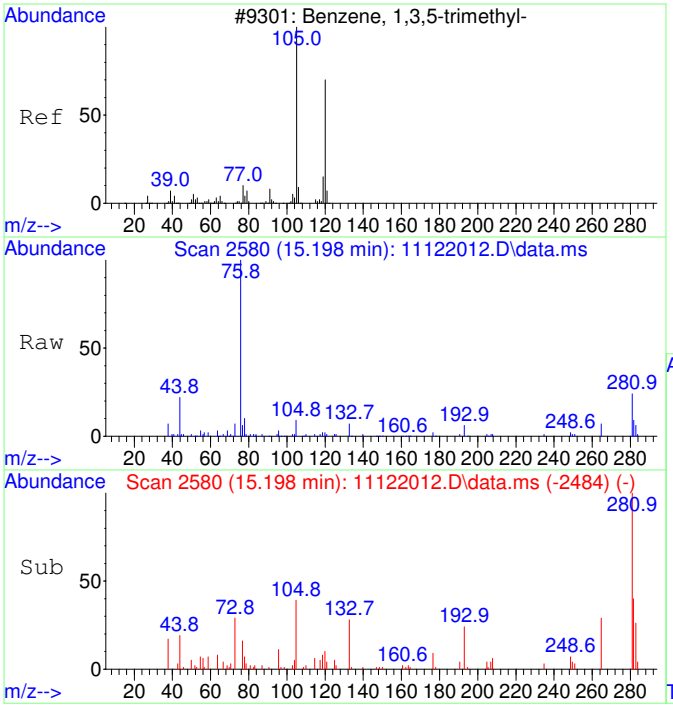


#44
o-Xylene SCAN
Concen: 242.61 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. 0.008 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 13153

Ion	Ratio	Lower	Upper
91	100		
106	44.9	18.0	78.0
105	15.0	0.0	56.6

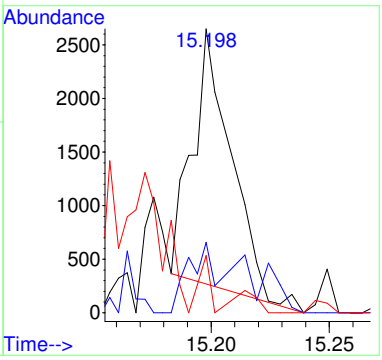


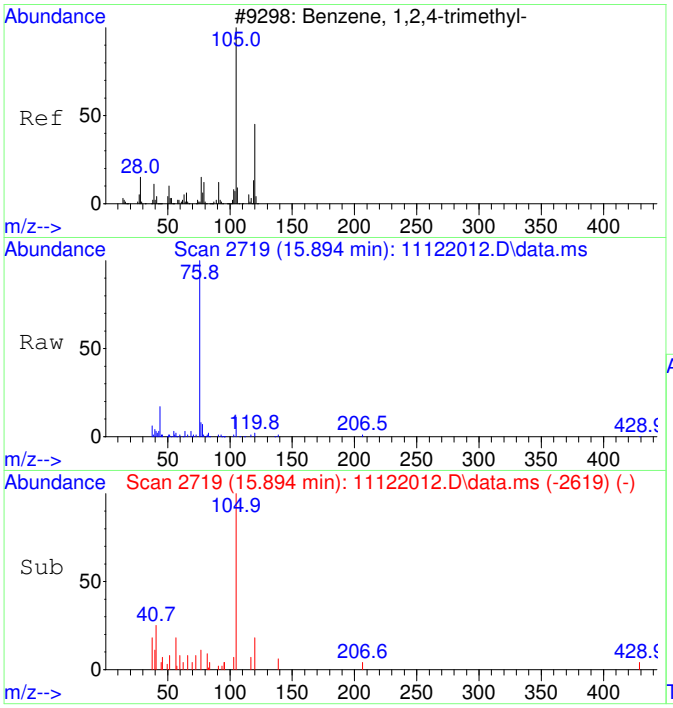


#46
1,3,5-Trimethylbenzene SCAN
Concen: 46.75 ug/L
RT: 15.198 min Scan# 2580
Delta R.T. -0.146 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:105 Resp: 2671

Ion	Ratio	Lower	Upper
105	100		
120	39.4	18.3	78.3
119	14.2	0.0	43.1

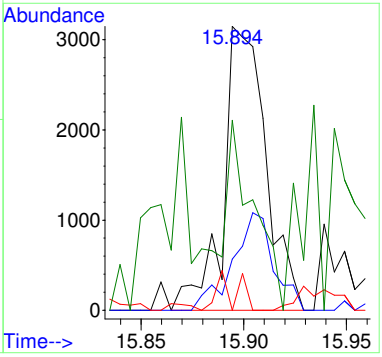




#47
1,2,4-Trimethylbenzene SCAN
Concen: 77.11 ug/L
RT: 15.894 min Scan# 2719
Delta R.T. -0.005 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:105 Resp: 4508

Ion	Ratio	Lower	Upper
105	100		
120	33.0	16.9	76.9
119	6.2	0.0	41.9
77	29.2	0.0	42.3



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122012.D
Acq On : 12 Nov 2020 12:48
InstName : AG5975C
Operator : TD
Sample : 2011015-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

M.I. Performed By:
TD at 1:52 pm, Nov 12, 2020

M.I. Approved By:
ZR at 2:35 pm, Nov 23, 2020

Quant Time: Nov 12 13:07:39 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

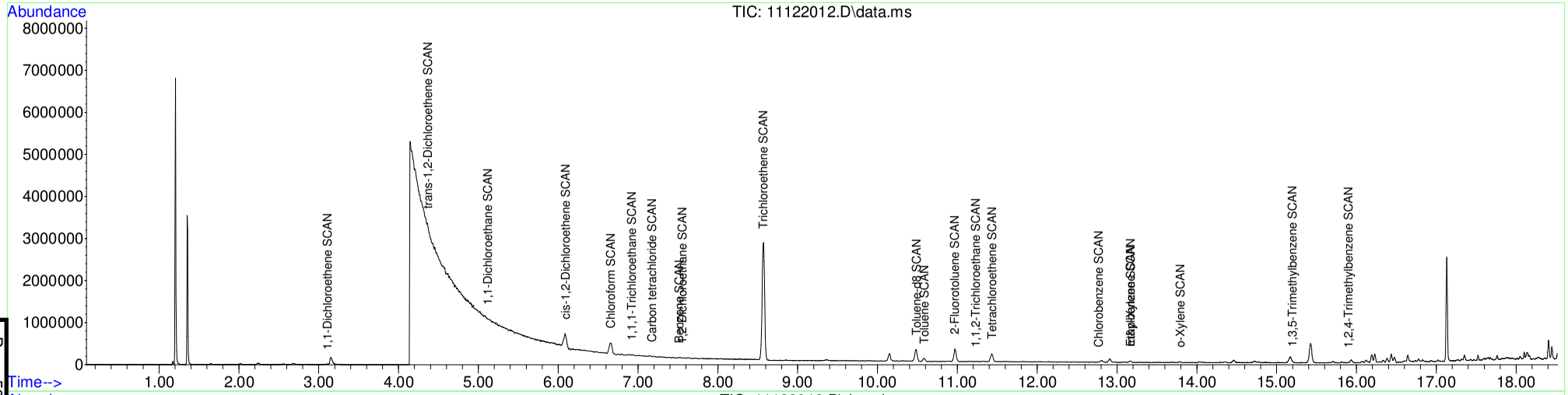
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	455361	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	392980	4408.48 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.17%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.093	61	15888m	873.77 ug/L	
3] trans-1,2-Dichloroethene	4.369	61	28090	1337.08 ug/L	100
4] 1,1-Dichloroethane	5.086	63	14790	565.55 ug/L	97
5] cis-1,2-Dichloroethene	6.088	61	494277	17905.56 ug/L	99
6] Chloroform	6.652	83	444217	15722.02 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	16567	539.91 ug/L	99
8] Carbon tetrachloride	7.187	117	2803	97.05 ug/L	99
9] Benzene	7.503	78	10993	142.09 ug/L	67
10] 1,2-Dichloroethane	7.540	62	3080	111.52 ug/L	54
11] Trichloroethene	8.569	130	1921090	82469.32 ug/L OC	92
13] Toluene	10.582	91	110471	972.05 ug/L	99
14] 1,1,2-Trichloroethane	11.159	97	900	36.34 ug/L #	22
15] Tetrachloroethene	11.432	166	129750	3945.04 ug/L	100
16] Chlorobenzene	12.765	112	1681	20.66 ug/L	66
17] 1,1,1,2-Tetrachloroethane	12.908	131	1199	41.12 ug/L #	46
18] Ethylbenzene	12.972	91	12533	90.60 ug/L	97
19] m&p-Xylene	13.162	91	37357	345.53 ug/L	95
20] o-Xylene	13.782	91	19788	171.31 ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.866	83	1390	27.15 ug/L #	26
22] 1,3,5-Trimethylbenzene	15.345	105	4261	34.66 ug/L	84
23] 1,2,4-Trimethylbenzene	15.901	105	6328	49.55 ug/L	96
25) 2-Fluorotoluene SCAN	10.969	109	242148	5455.10 ug/L	98
26) 1,1-Dichloroethene SCAN	3.111	61	2167	229.87 ug/L #	27
27) trans-1,2-Dichloroethe...	4.361	61	18055	1547.76 ug/L	76
28) 1,1-Dichloroethane SCAN	5.118	63	276	20.44 ug/L #	1
29) cis-1,2-Dichloroethene...	6.086	61	291056	20122.45 ug/L #	81
30) Chloroform SCAN	6.650	83	263193	16776.19 ug/L	95
31) 1,1,1-Trichloroethane ...	6.918	97	8950	626.02 ug/L	92
32) Carbon tetrachloride SCAN	7.173	117	1647	110.44 ug/L #	19
33) Benzene SCAN	7.514	78	13646	346.66 ug/L	98
34) 1,2-Dichloroethane SCAN	7.550	62	1428	98.24 ug/L #	47
35) Trichloroethene SCAN	8.568	130	982351	90811.51 ug/L	84
36) Toluene-d8 SCAN	10.486	98	212939	4905.14 ug/L	94
37) Toluene SCAN	10.580	91	60989	1097.03 ug/L	96
38) 1,1,2-Trichloroethane ...	11.231	97	278	22.28 ug/L #	26
39) Tetrachloroethene SCAN	11.430	166	62751	4698.17 ug/L	98
40) Chlorobenzene SCAN	12.764	112	850	22.37 ug/L #	1
42) Ethylbenzene SCAN	13.169	91	21710	214.35 ug/L	91
43) m&p-Xylene SCAN	13.169	91	21710	214.35 ug/L	83
44) o-Xylene SCAN	13.789	91	13153	242.61 ug/L	89
46) 1,3,5-Trimethylbenzene...	15.198	105	2671	46.75 ug/L	89
47) 1,2,4-Trimethylbenzene...	15.894	105	4508	77.11 ug/L	76

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122012.D
Acq On : 12 Nov 2020 12:48
InstName : AG5975C
Operator : TD
Sample : 2011015-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 12 13:07:39 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



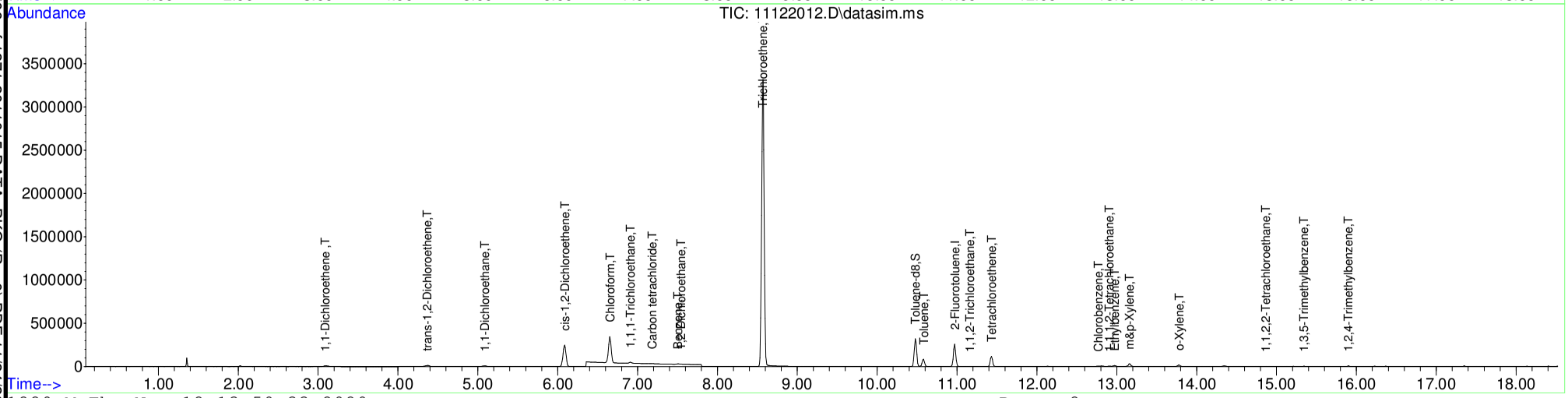
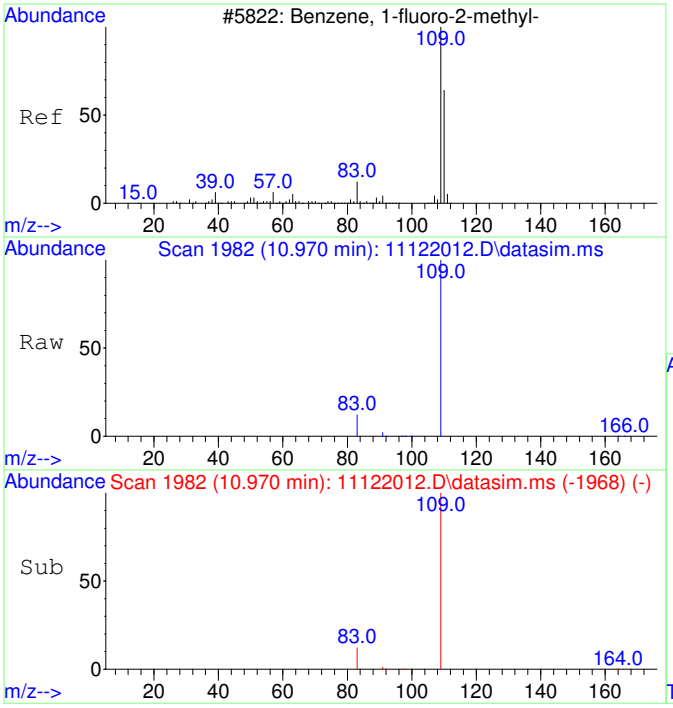


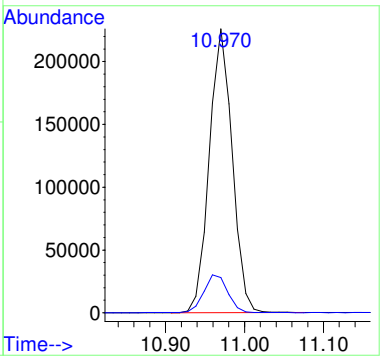
Table of Contents

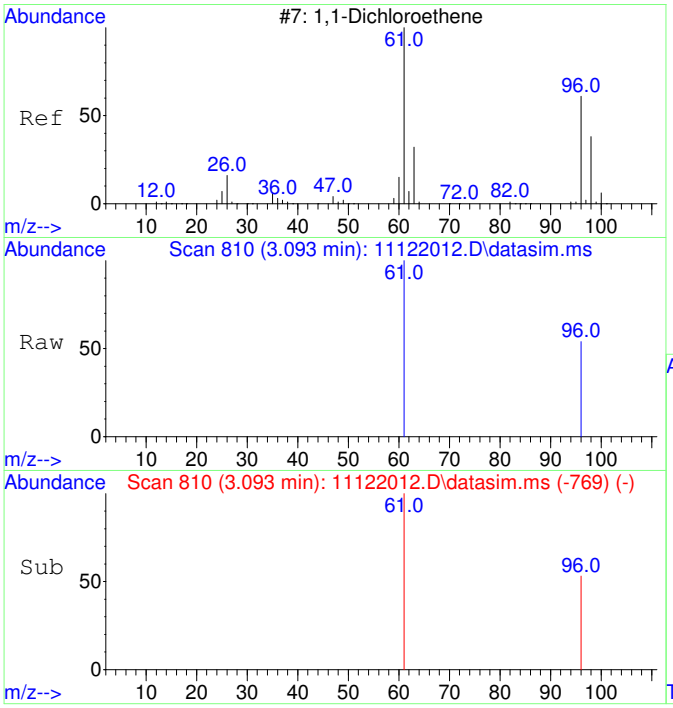


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:109 Resp: 455361

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

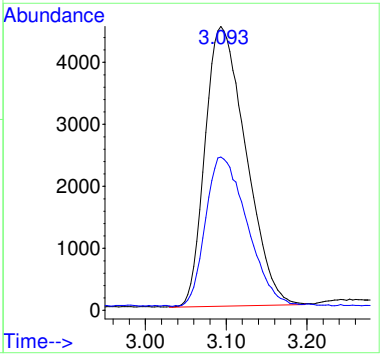


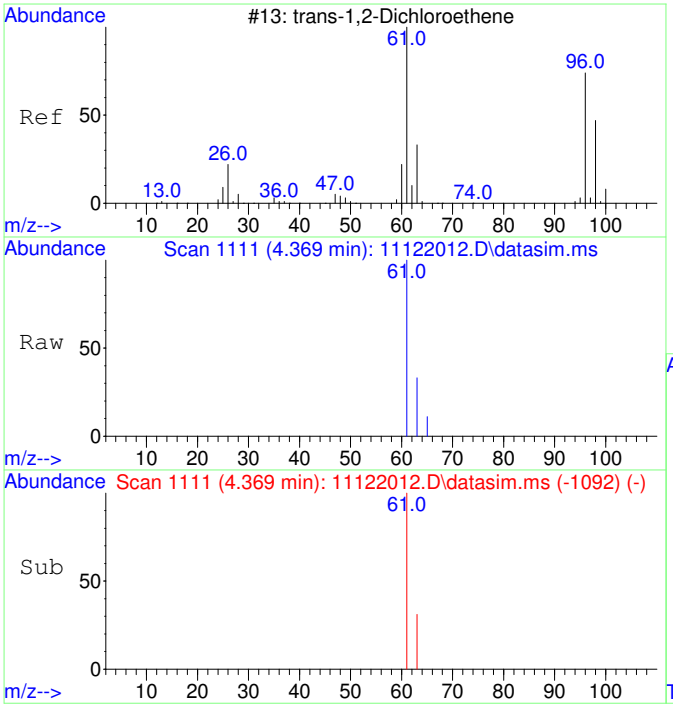


#2
1,1-Dichloroethene
Concen: 873.77 ug/L m
RT: 3.093 min Scan# 810
Delta R.T. 0.004 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 61 Resp: 15888

Ion	Ratio	Lower	Upper
61	100		
96	54.3	37.2	97.2

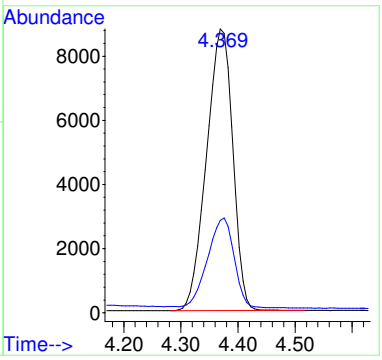


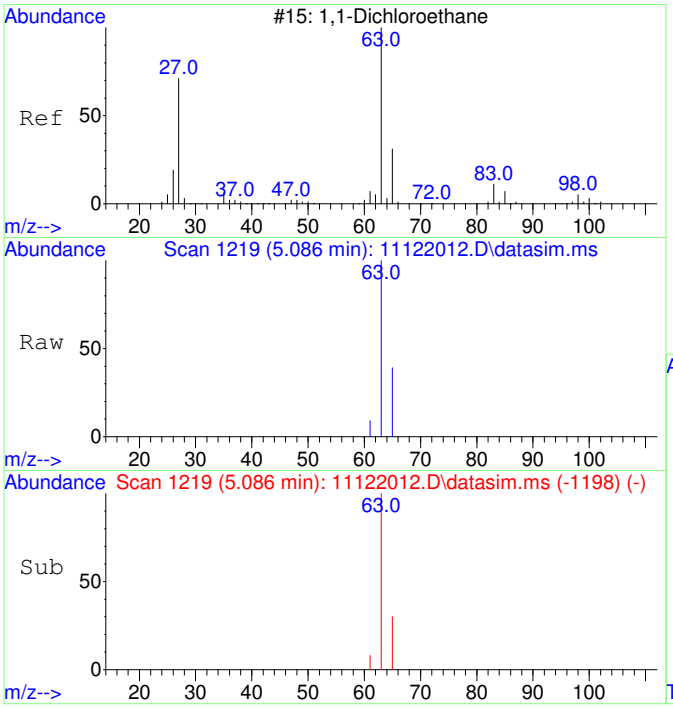


#3
trans-1,2-Dichloroethene
Concen: 1337.08 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. -0.027 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 61 Resp: 28090

Ion	Ratio	Lower	Upper
61	100		
63	32.3	2.4	62.4

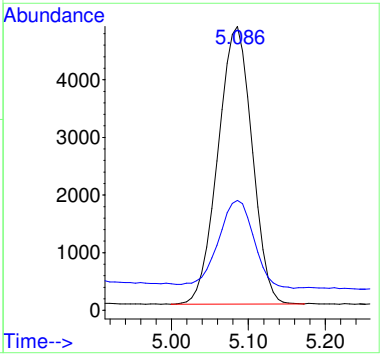


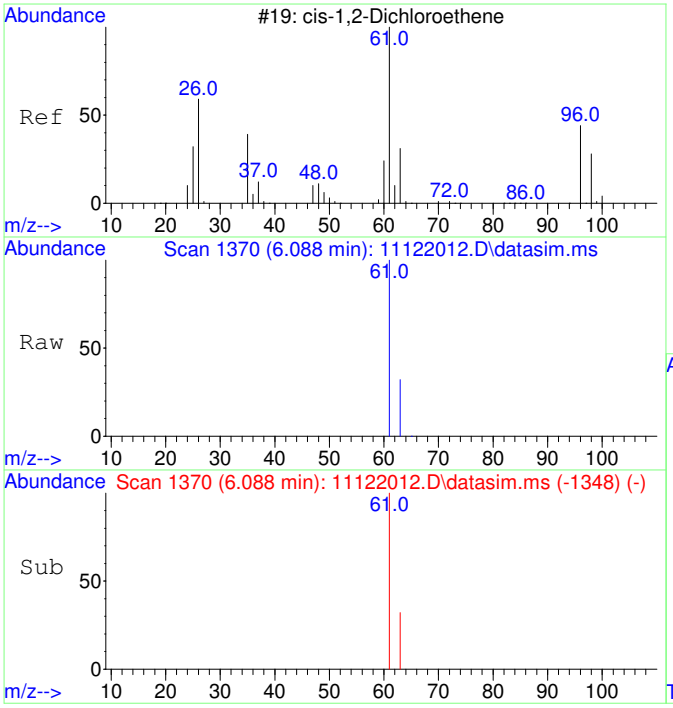


#4
1,1-Dichloroethane
Concen: 565.55 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. -0.013 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 63 Resp: 14790

Ion	Ratio	Lower	Upper
63	100		
65	33.5	1.8	61.8

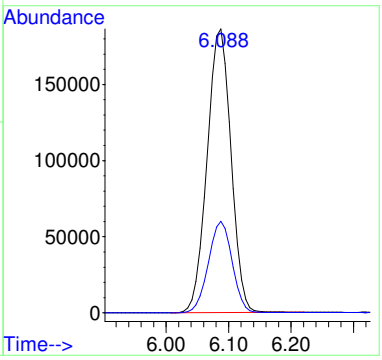


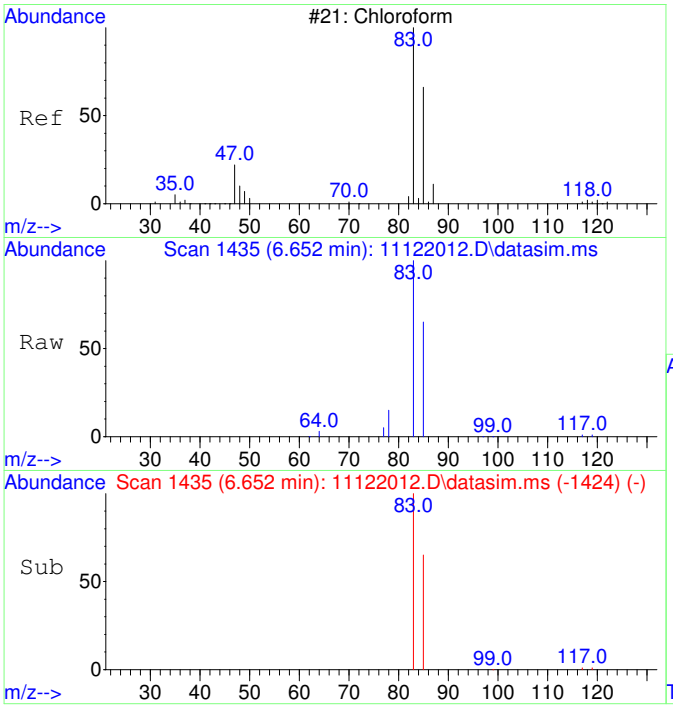


#5
cis-1,2-Dichloroethene
Concen: 17905.56 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 61 Resp: 494277

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

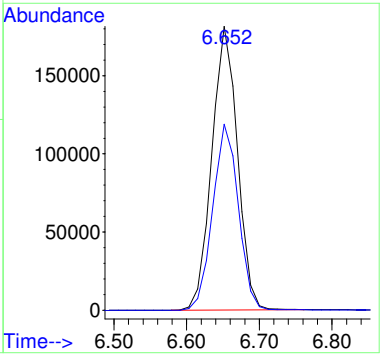


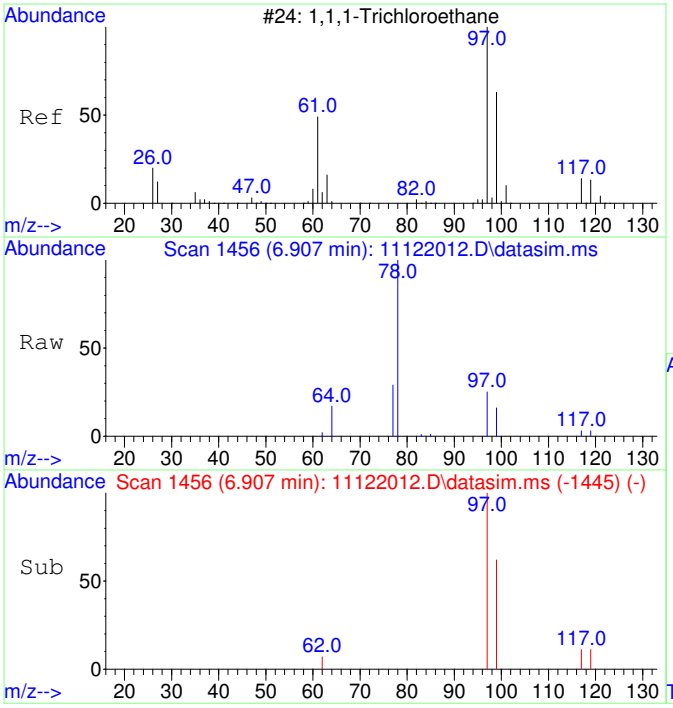


#6
Chloroform
Concen: 15722.02 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 83 Resp: 444217

Ion	Ratio	Lower	Upper
83	100		
85	65.5	35.1	95.1

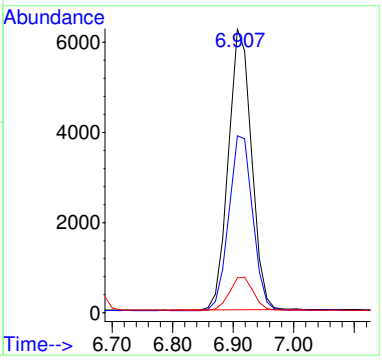


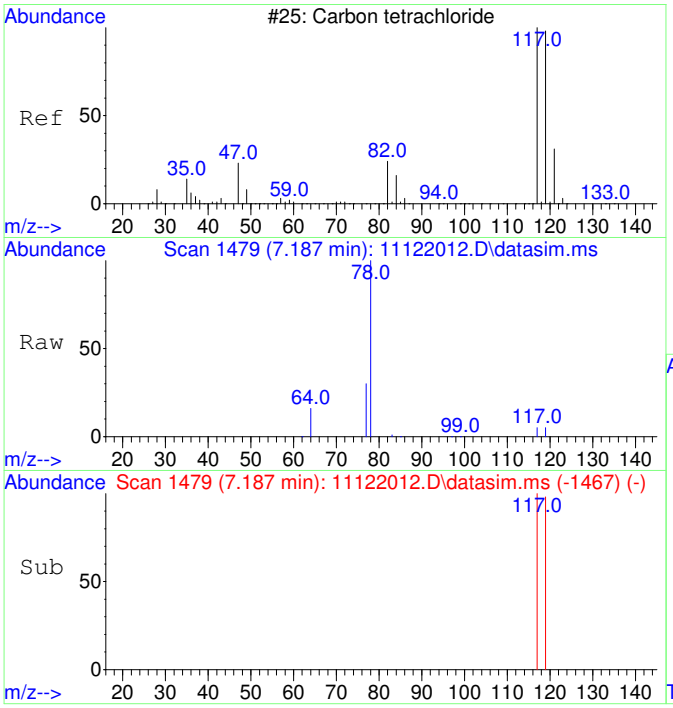


#7
1,1,1-Trichloroethane
Concen: 539.91 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 97 Resp: 16567

Ion	Ratio	Lower	Upper
97	100		
99	64.1	34.6	94.6
117	12.1	0.0	43.2

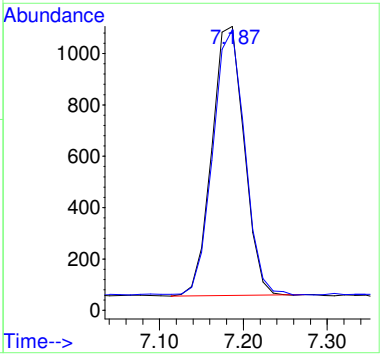


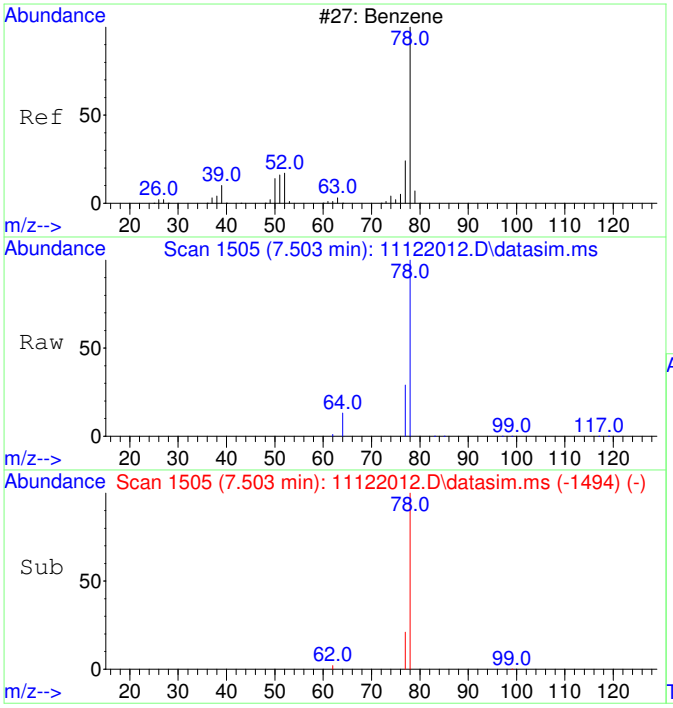


#8
Carbon tetrachloride
Concen: 97.05 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:117 Resp: 2803

Ion	Ratio	Lower	Upper
117	100		
119	97.8	66.4	126.4

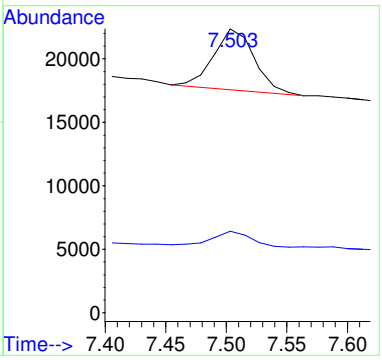


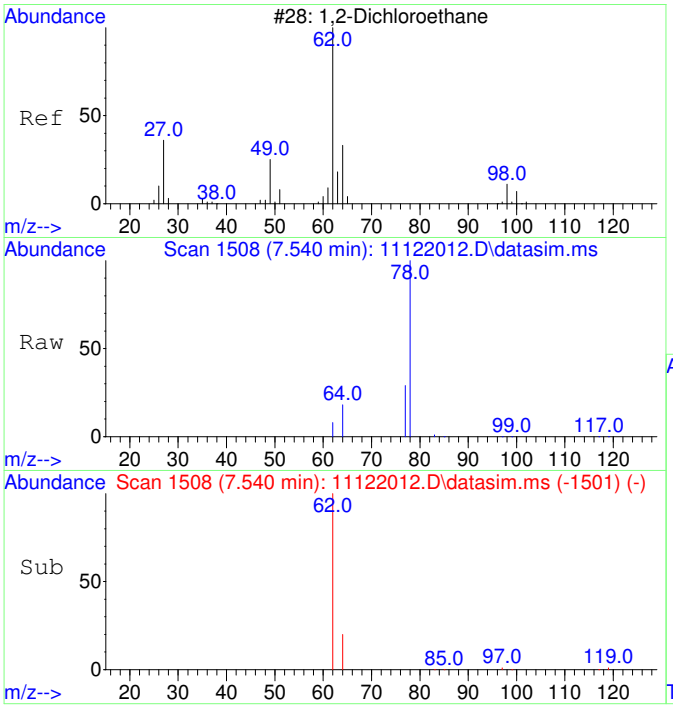


#9
Benzene
Concen: 142.09 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 78 Resp: 10993

Ion	Ratio	Lower	Upper
78	100		
77	39.3	0.0	53.2

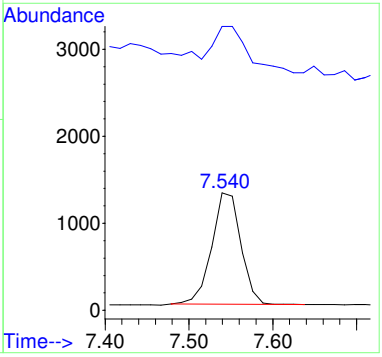


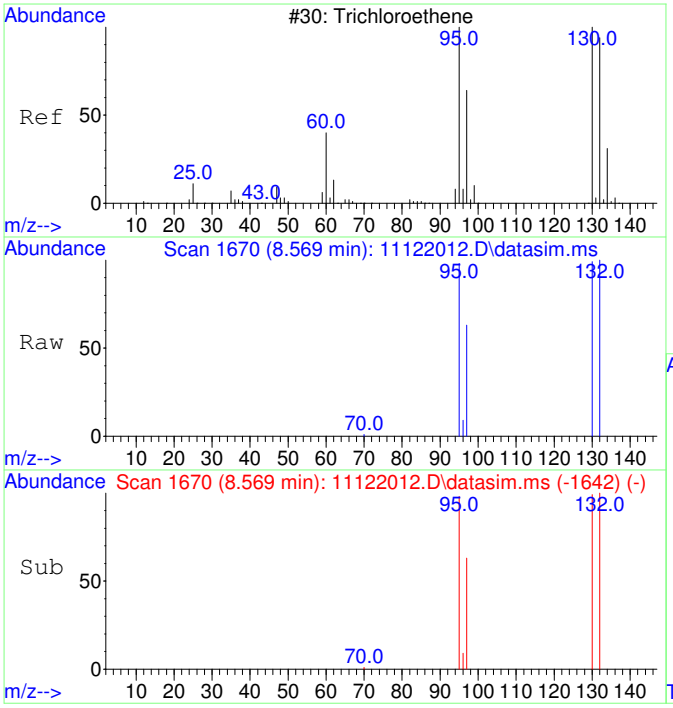


#10
1,2-Dichloroethane
Concen: 111.52 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 62 Resp: 3080

Ion	Ratio	Lower	Upper
62	100		
64	58.2	2.3	62.3

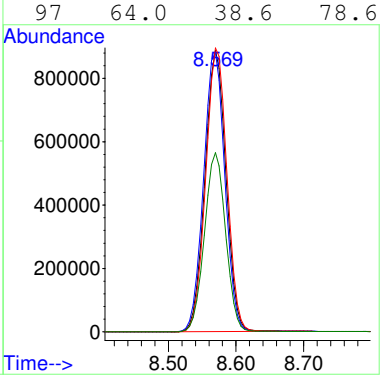


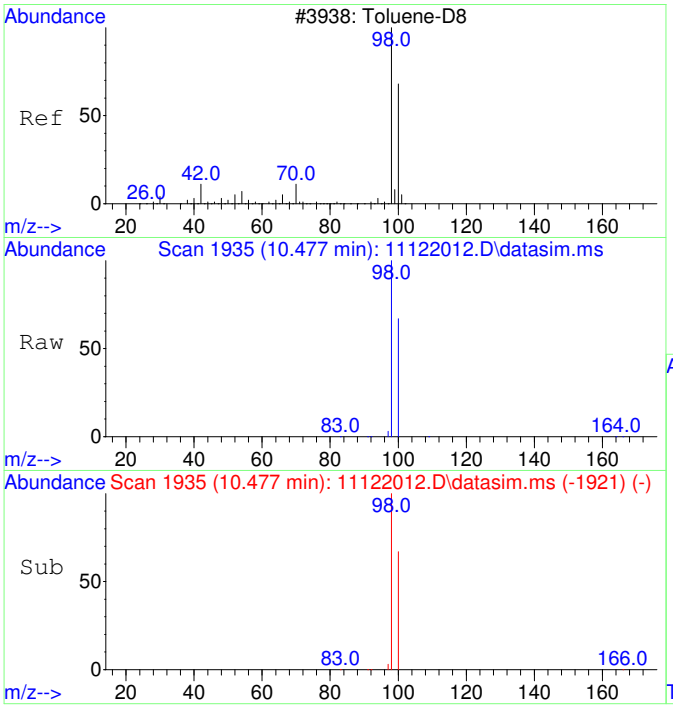


#11
Trichloroethene
Concen: 82469.32 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:130 Resp: 1921090

Ion	Ratio	Lower	Upper
130	100		
95	100.3	60.7	120.7
132	101.3	76.0	116.0
97	64.0	38.6	78.6

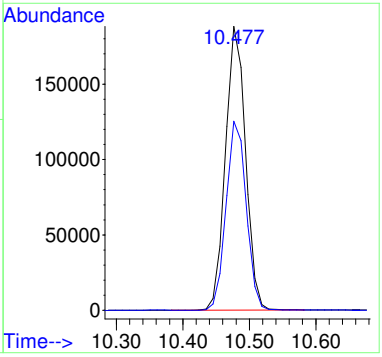


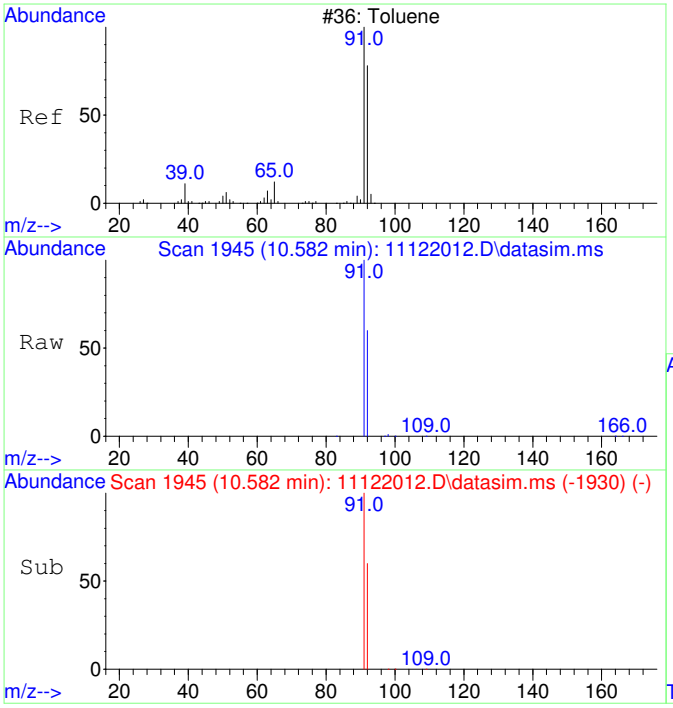


#12
Toluene-d8
Concen: 4408.48 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 98 Resp: 392980

Ion	Ratio	Lower	Upper
98	100		
100	66.9	37.1	97.1

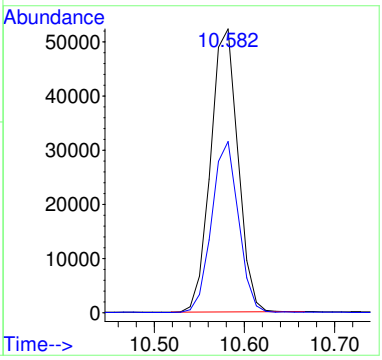


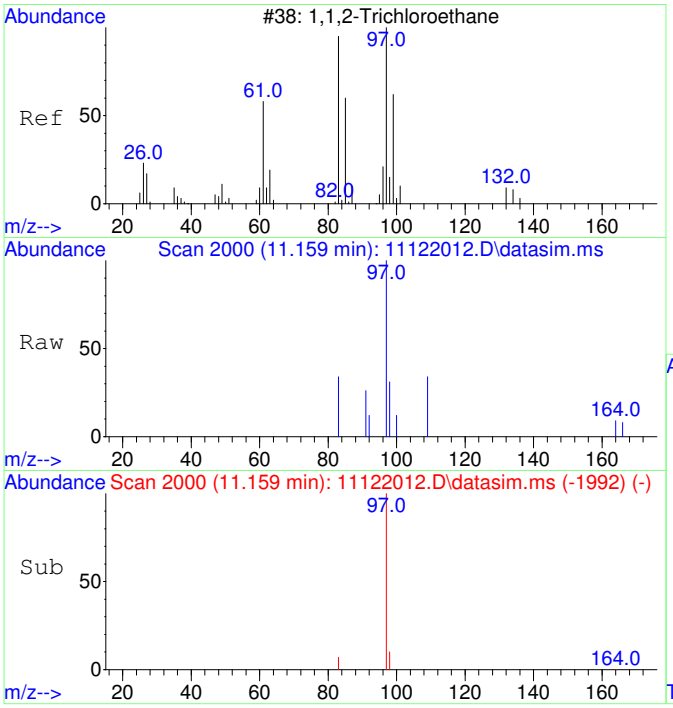


#13
Toluene
Concen: 972.05 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 110471

Ion	Ratio	Lower	Upper
91	100		
92	59.1	29.9	89.9

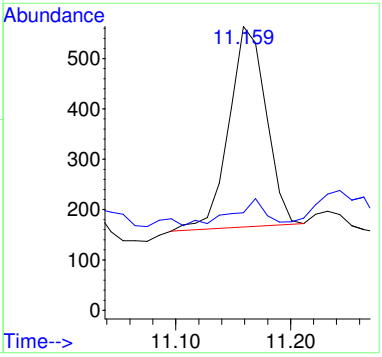


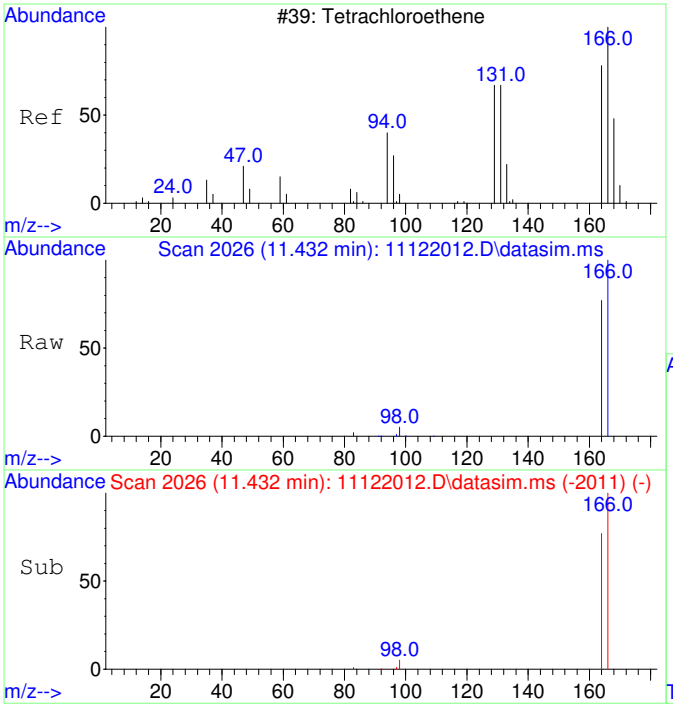


#14
1,1,2-Trichloroethane
Concen: 36.34 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 97 Resp: 900

Ion	Ratio	Lower	Upper
97	100		
83	11.7	51.2	111.2#

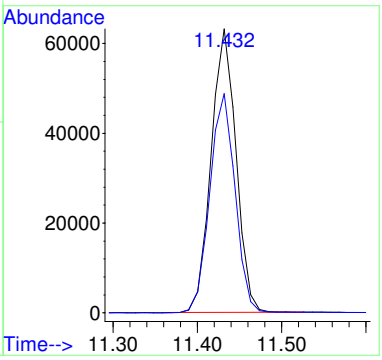


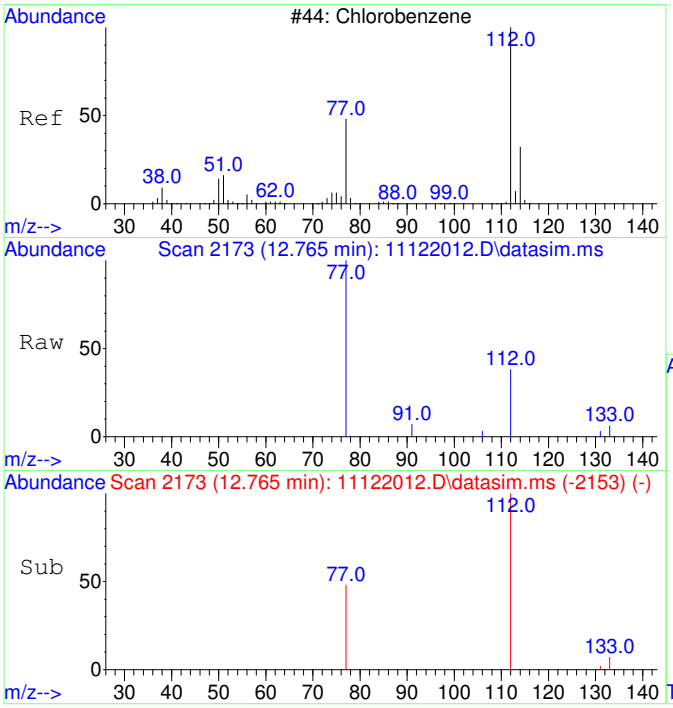


#15
Tetrachloroethene
Concen: 3945.04 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:166 Resp: 129750

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

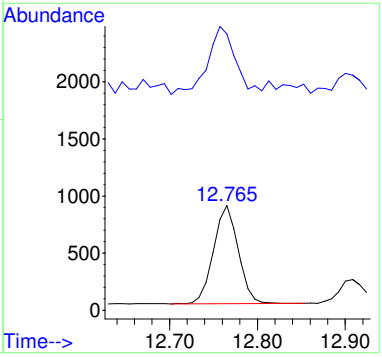


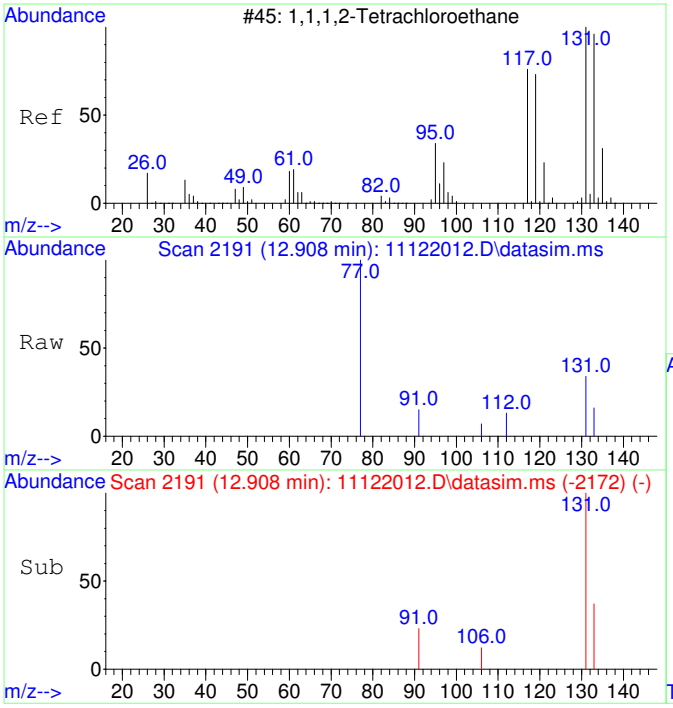


#16
Chlorobenzene
Concen: 20.66 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:112 Resp: 1681

Ion	Ratio	Lower	Upper
112	100		
77	77.6	23.6	83.6

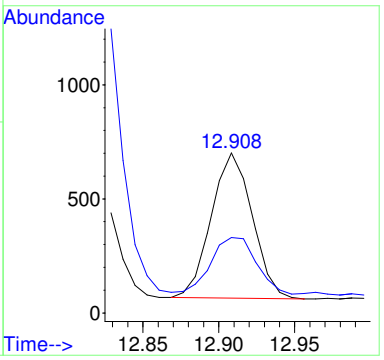


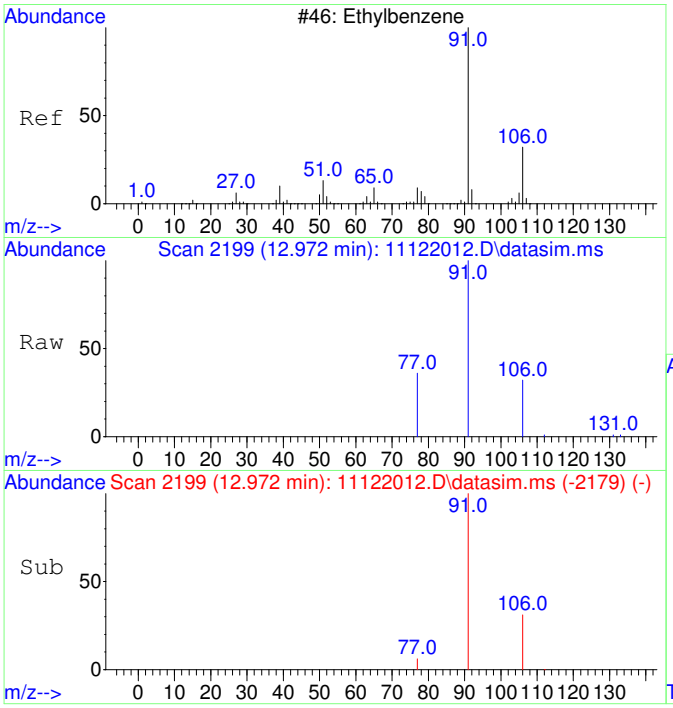


#17
1,1,1,2-Tetrachloroethane
Concen: 41.12 ug/L
RT: 12.908 min Scan# 2191
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:131 Resp: 1199

Ion	Ratio	Lower	Upper
131	100		
133	43.2	66.3	126.3#

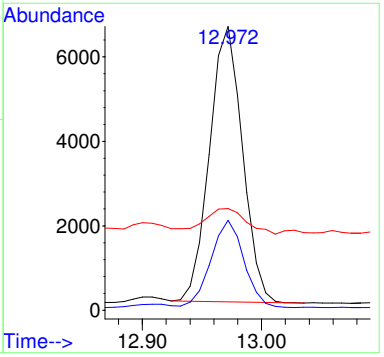


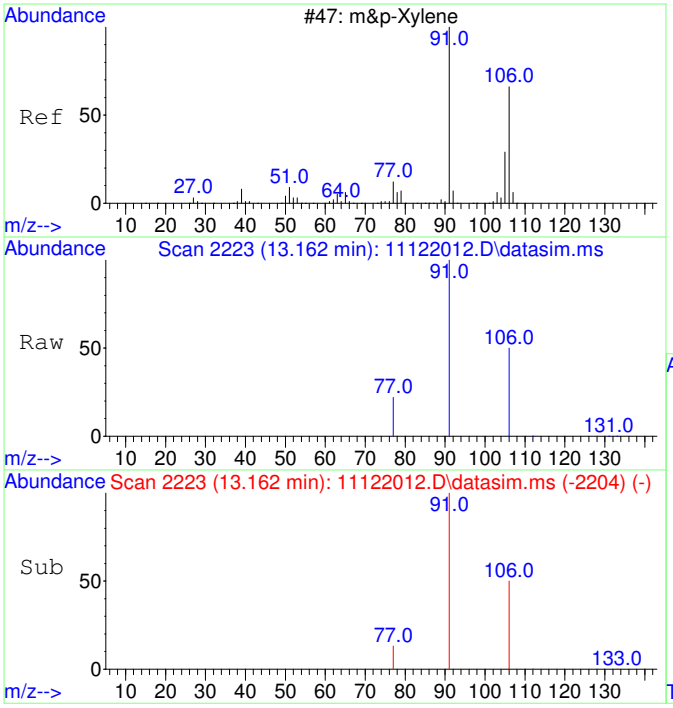


#18
Ethylbenzene
Concen: 90.60 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 12533

Ion	Ratio	Lower	Upper
91	100		
106	32.0	3.0	63.0
77	11.5	0.0	38.2

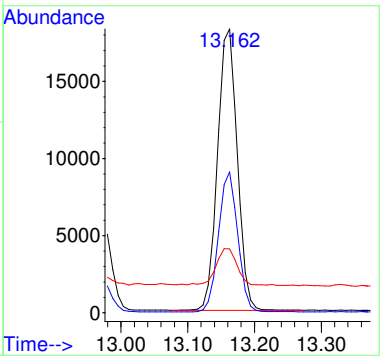


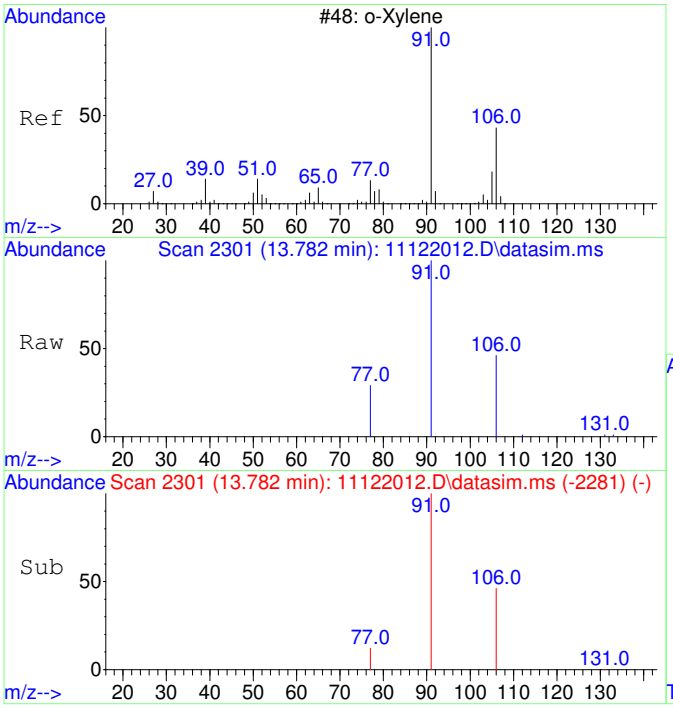


#19
m&p-Xylene
Concen: 345.53 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 37357

Ion	Ratio	Lower	Upper
91	100		
106	48.4	22.2	82.2
77	14.2	0.0	42.4

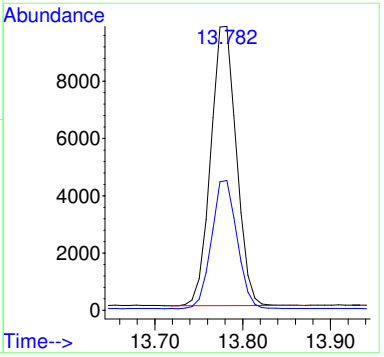


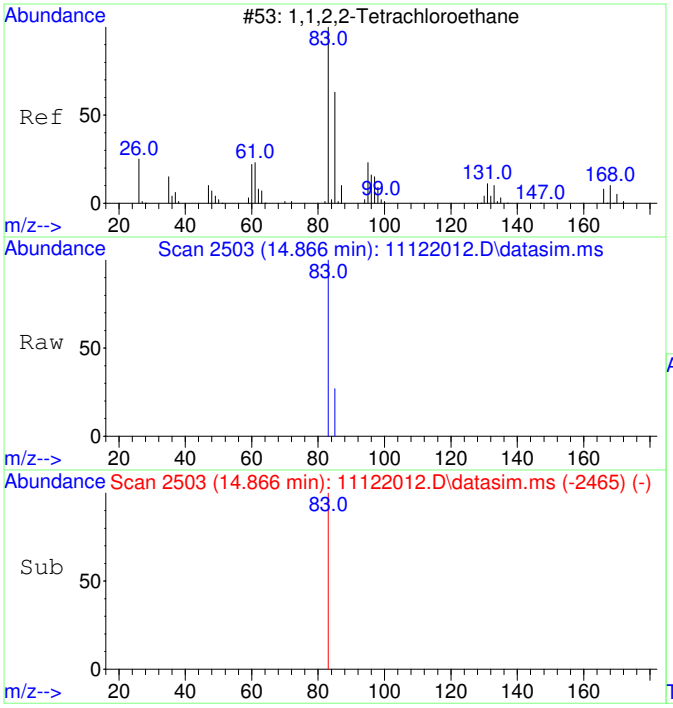


#20
o-Xylene
Concen: 171.31 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 19788

Ion	Ratio	Lower	Upper
91	100		
106	45.8	19.2	79.2

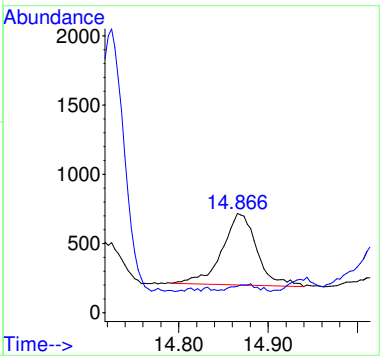


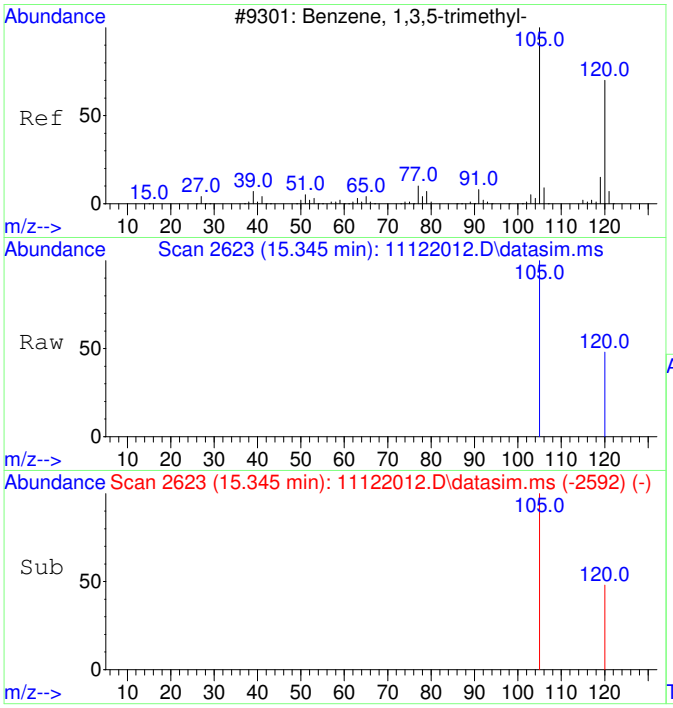


#21
1,1,2,2-Tetrachloroethane
Concen: 27.15 ug/L
RT: 14.866 min Scan# 2503
Delta R.T. -0.007 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 83 Resp: 1390

Ion	Ratio	Lower	Upper
83	100		
85	6.8	34.8	94.8#

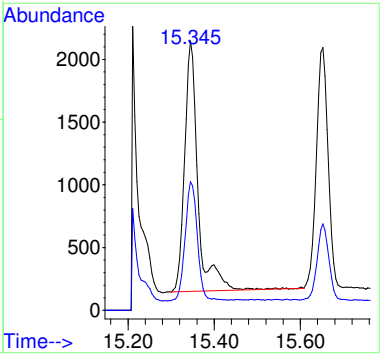


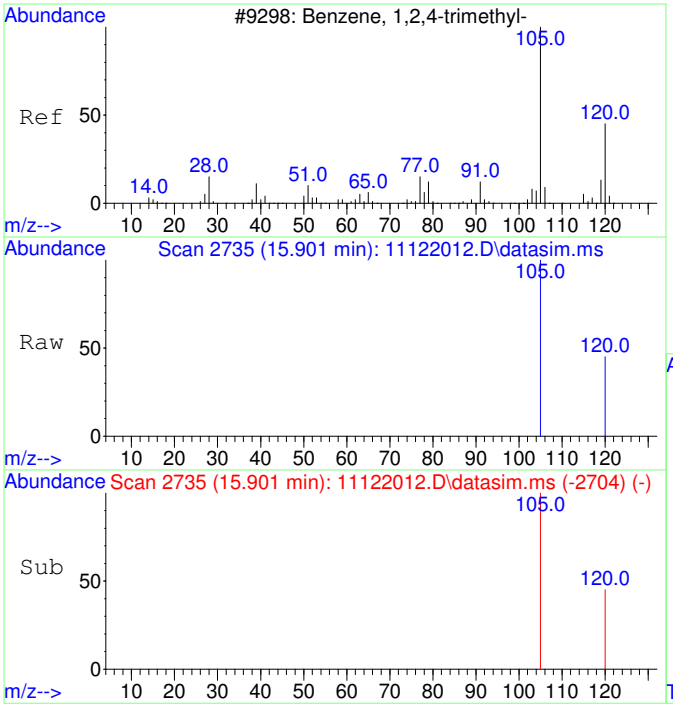


#22
1,3,5-Trimethylbenzene
Concen: 34.66 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:105 Resp: 4261

Ion	Ratio	Lower	Upper
105	100		
120	40.1	21.1	81.1

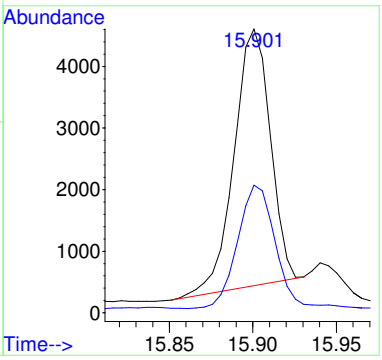


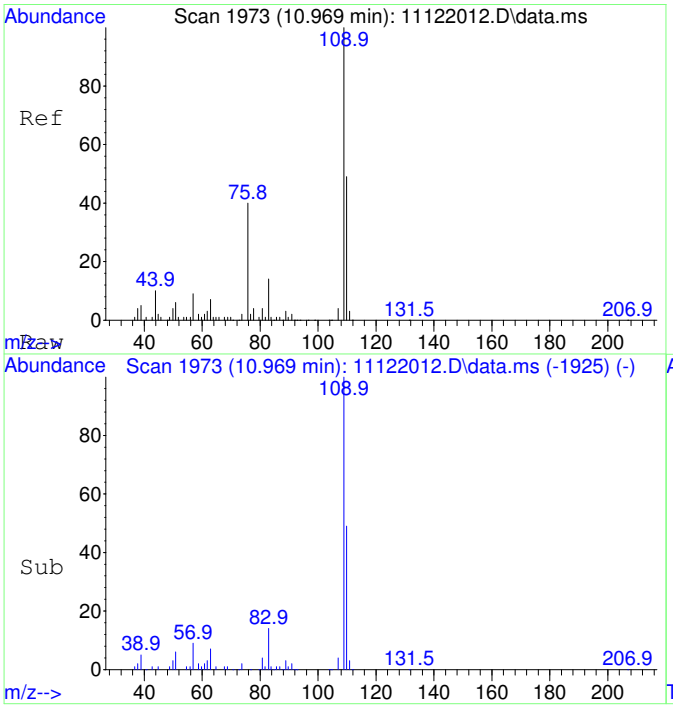


#23
1,2,4-Trimethylbenzene
Concen: 49.55 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:105 Resp: 6328

Ion	Ratio	Lower	Upper
105	100		
120	50.1	17.2	77.2

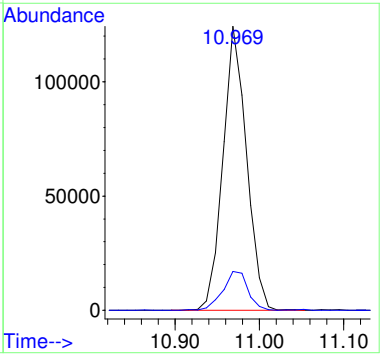


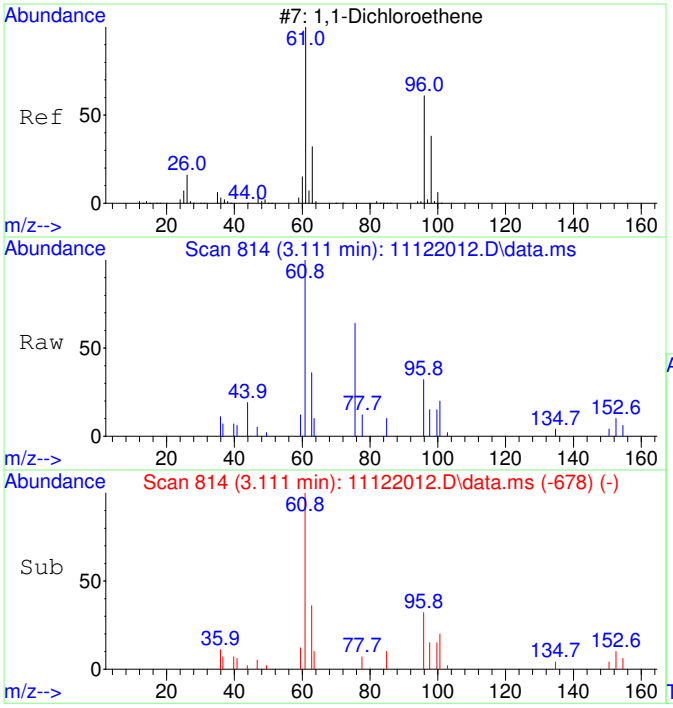


#25
2-Fluorotoluene SCAN
Concen: 5455.10 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:109 Resp: 242148

Ion	Ratio	Lower	Upper
109	100		
83	14.7	0.0	43.8

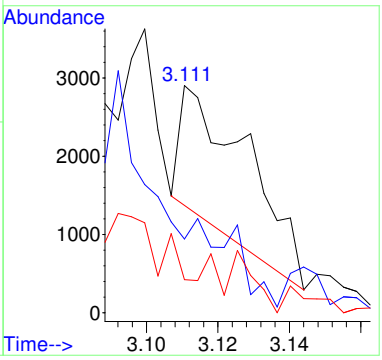


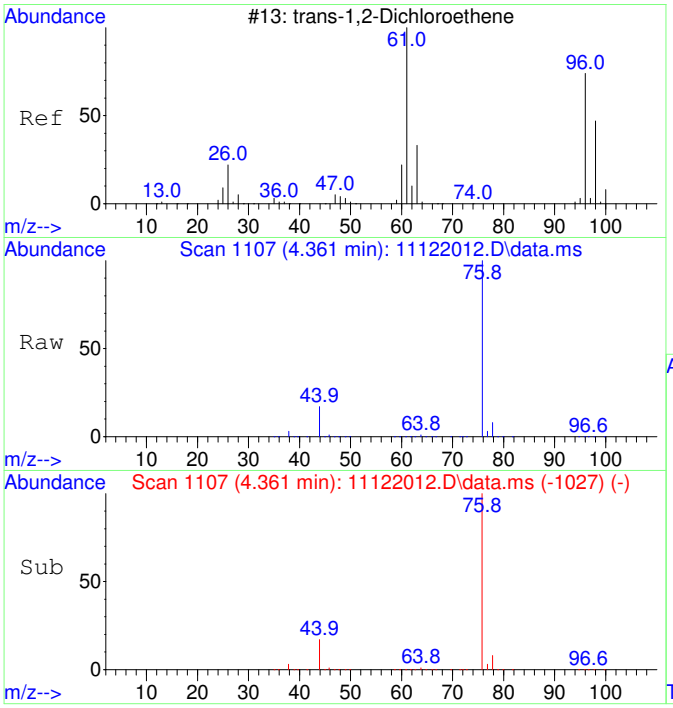


#26
1,1-Dichloroethene SCAN
Concen: 229.87 ug/L
RT: 3.111 min Scan# 814
Delta R.T. 0.004 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 61 Resp: 2167

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.1	93.1#
98	3.5	11.2	71.2#

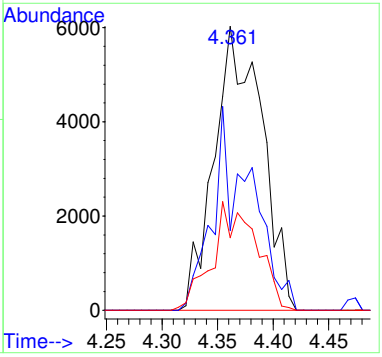


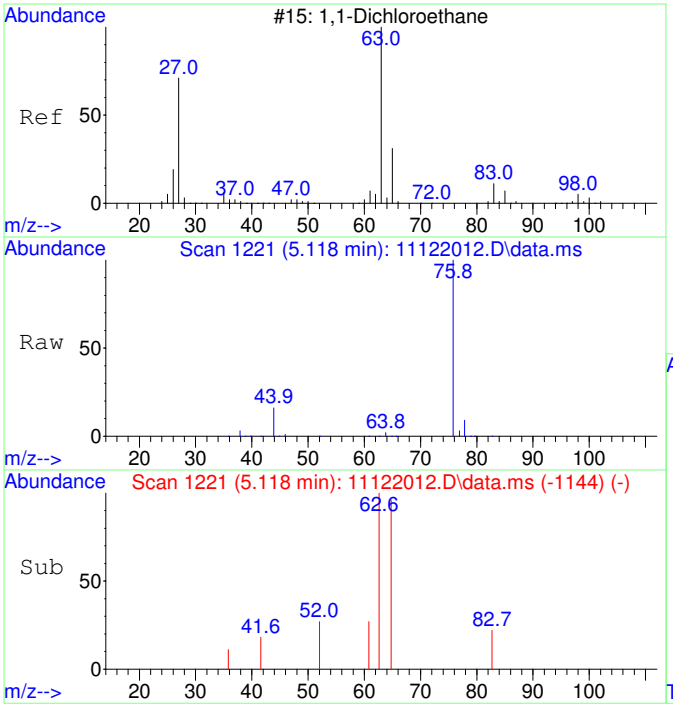


#27
trans-1,2-Dichloroethene SCAN
Concen: 1547.76 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. -0.040 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 61 Resp: 18055

Ion	Ratio	Lower	Upper
61	100		
96	56.9	49.0	109.0
98	35.1	20.5	80.5

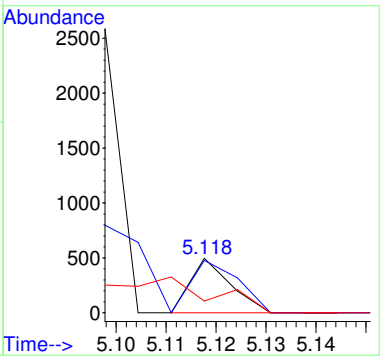


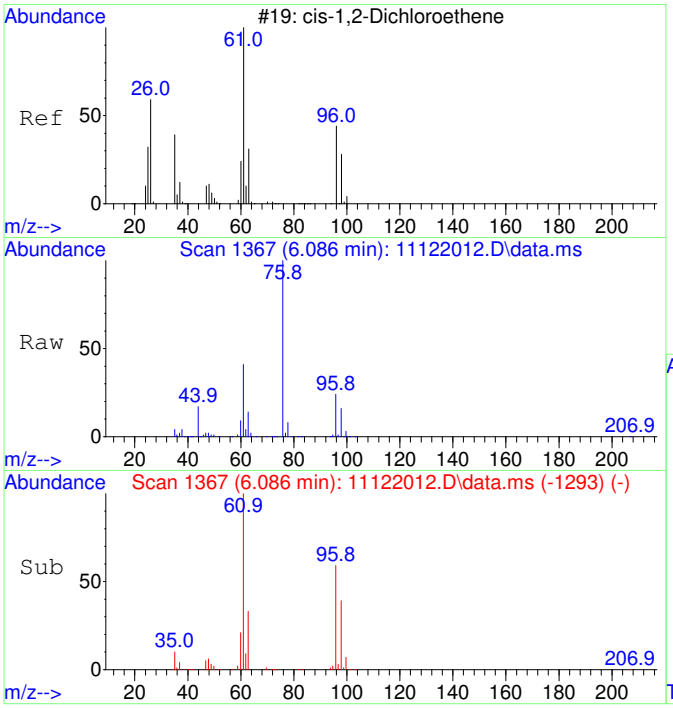


#28
1,1-Dichloroethane SCAN
Concen: 20.44 ug/L
RT: 5.118 min Scan# 1221
Delta R.T. 0.013 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 63 Resp: 276

Ion	Ratio	Lower	Upper
63	100		
65	0.0	1.3	61.3#
83	121.7	0.0	45.9#

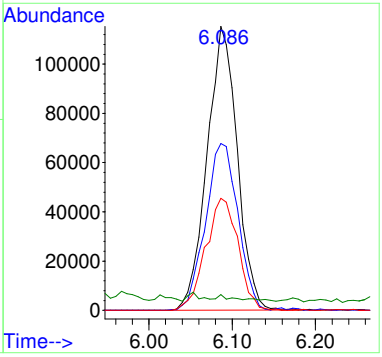


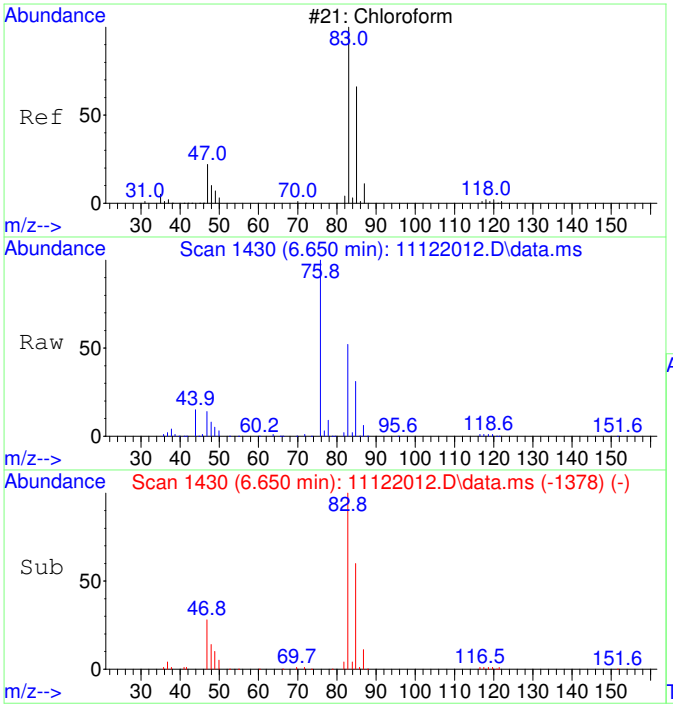


#29
cis-1,2-Dichloroethene SCAN
Concen: 20122.45 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 61 Resp: 291056

Ion	Ratio	Lower	Upper
61	100		
96	62.8	39.9	99.9
98	42.4	13.5	73.5
64	0.0	4.5	64.5#

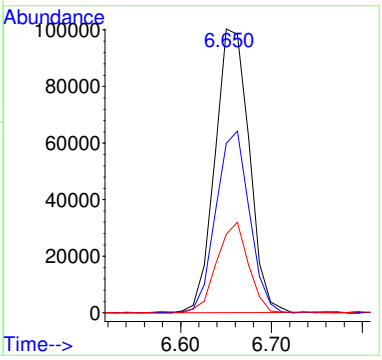


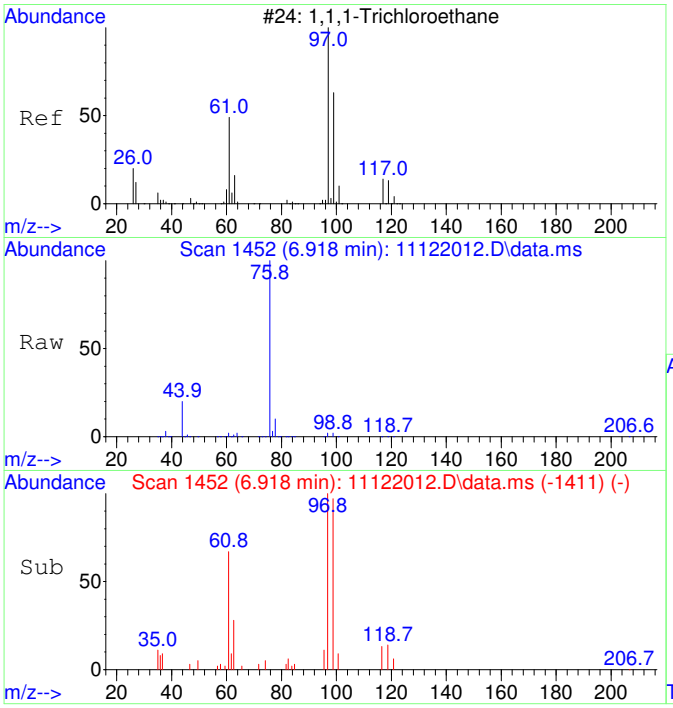


#30
Chloroform SCAN
Concen: 16776.19 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 83 Resp: 263193

Ion	Ratio	Lower	Upper
83	100		
85	62.8	34.6	94.6
47	29.9	0.0	53.4

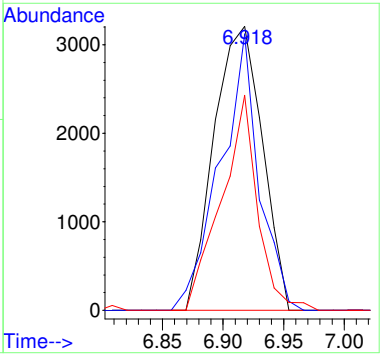


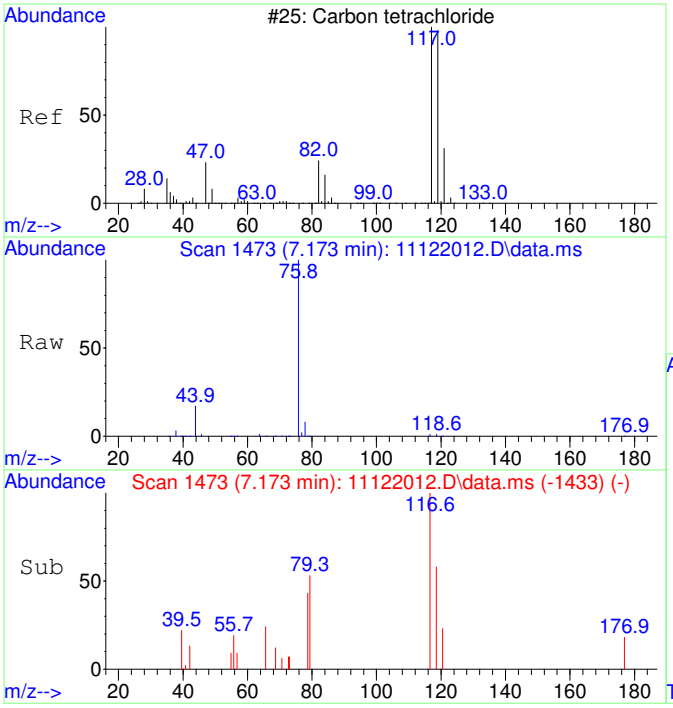


#31
1,1,1-Trichloroethane SCAN
Concen: 626.02 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 97 Resp: 8950

Ion	Ratio	Lower	Upper
97	100		
99	78.1	43.6	103.6
61	56.7	18.0	78.0

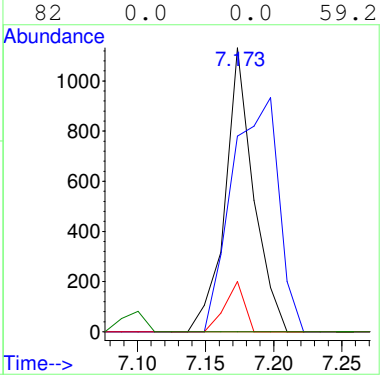


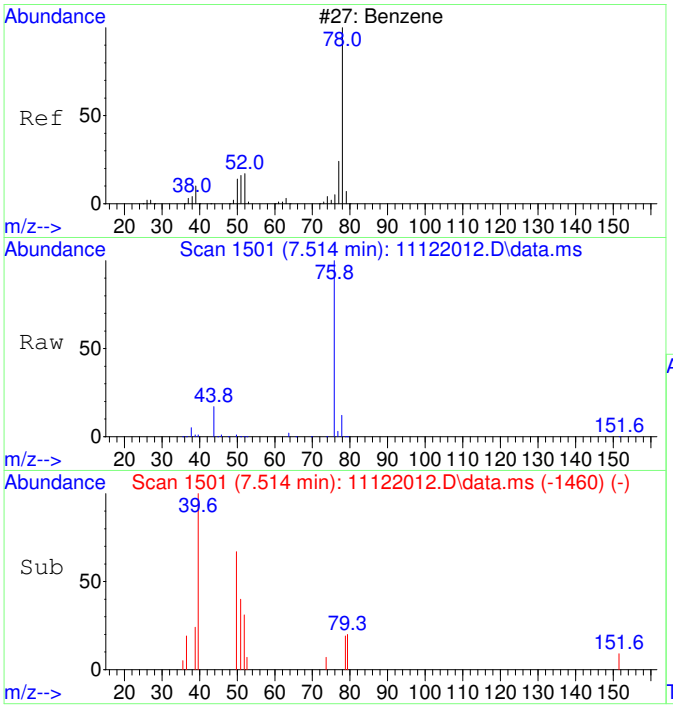


#32
Carbon tetrachloride SCAN
Concen: 110.44 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.012 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:117 Resp: 1647

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	12.2	0.0	58.8
82	0.0	0.0	59.2

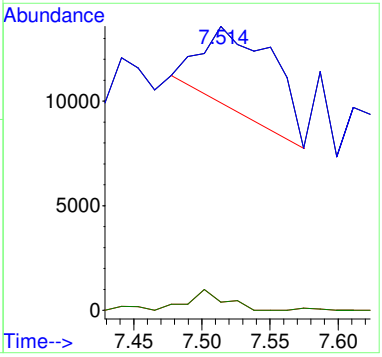


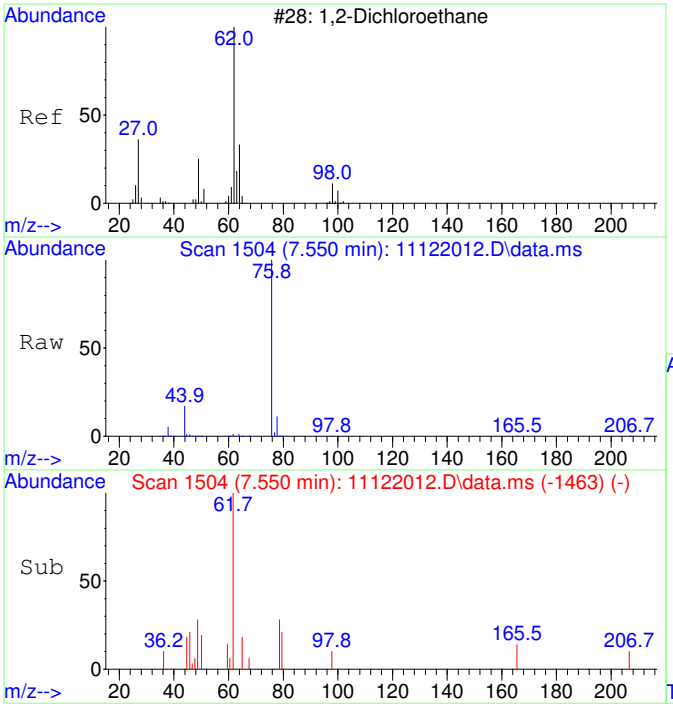


#33
Benzene SCAN
Concen: 346.66 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 78 Resp: 13646

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	13.1	0.0	47.9
51	13.1	0.0	44.1

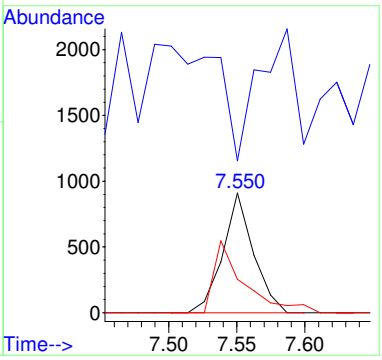


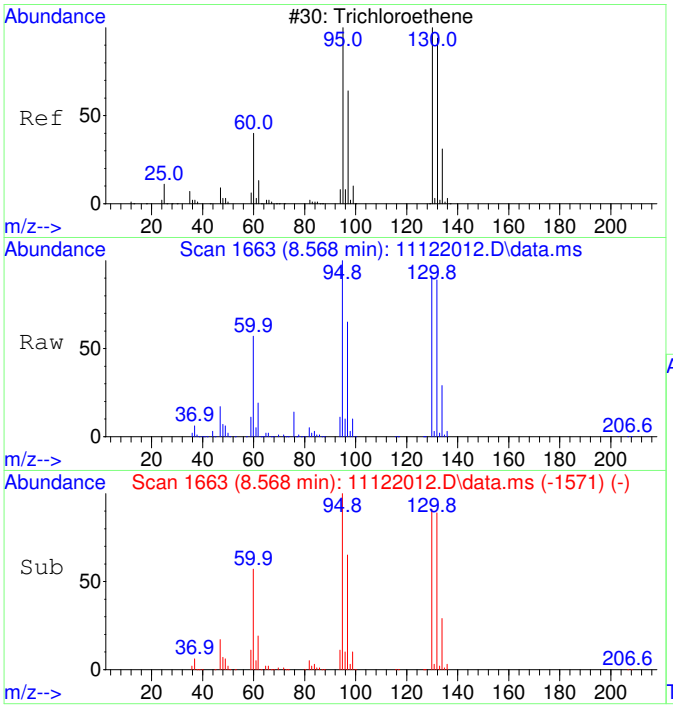


#34
1,2-Dichloroethane SCAN
Concen: 98.24 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 62 Resp: 1428

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	59.5	3.9	63.9

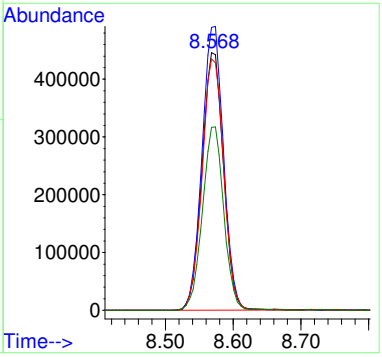


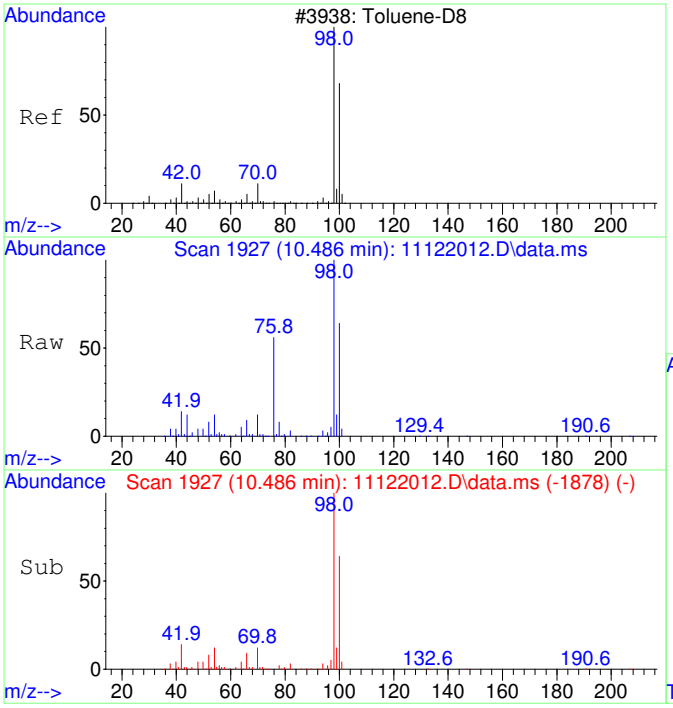


#35
Trichloroethene SCAN
Concen: 90811.51 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:130 Resp: 982351

Ion	Ratio	Lower	Upper
130	100		
95	110.1	60.5	120.5
132	98.6	59.6	119.6
97	70.8	28.2	88.2

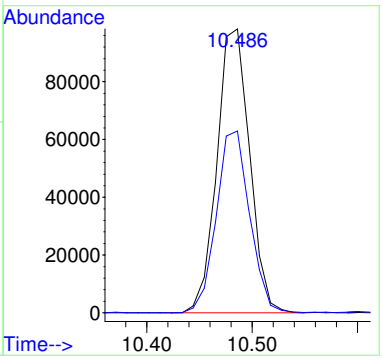


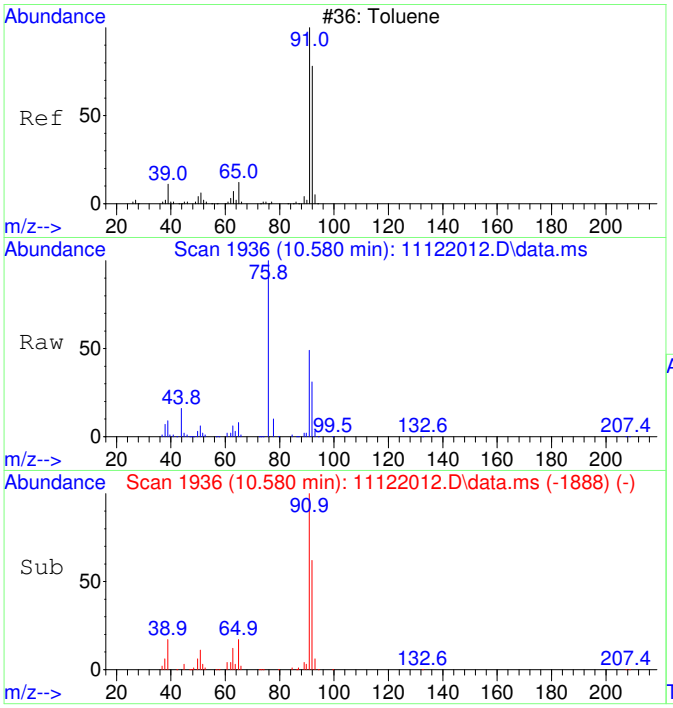


#36
Toluene-d8 SCAN
Concen: 4905.14 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 98 Resp: 212939

Ion	Ratio	Lower	Upper
98	100		
100	65.3	40.0	100.0

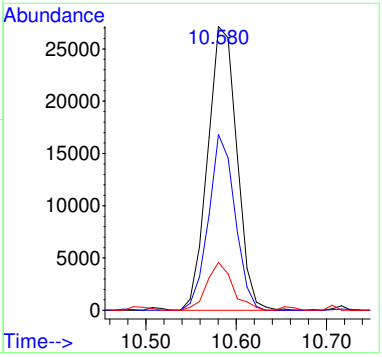


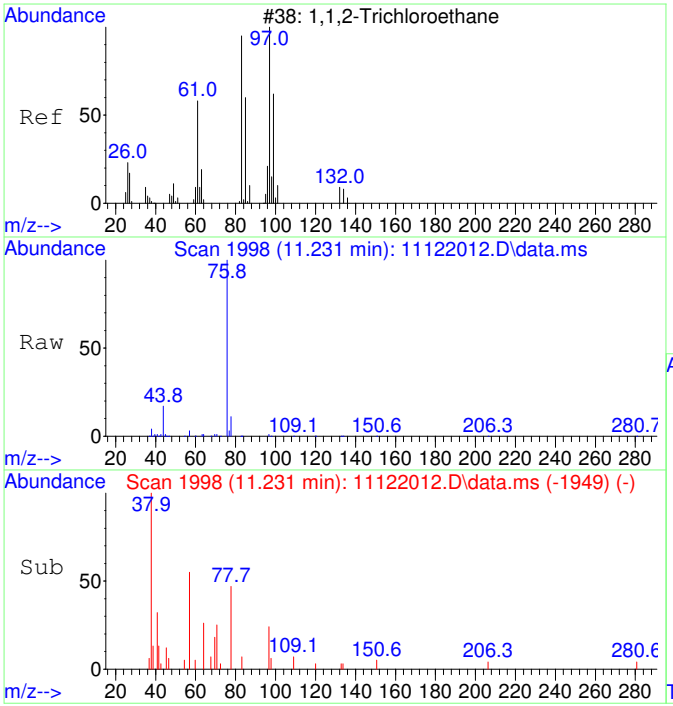


#37
Toluene SCAN
Concen: 1097.03 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 60989

Ion	Ratio	Lower	Upper
91	100		
92	56.2	28.3	88.3
65	14.9	0.0	41.0

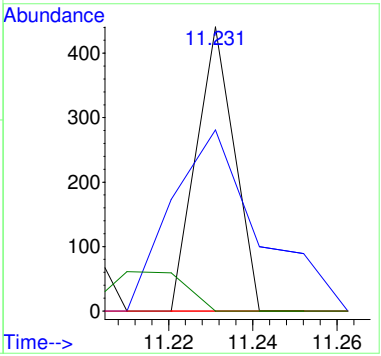


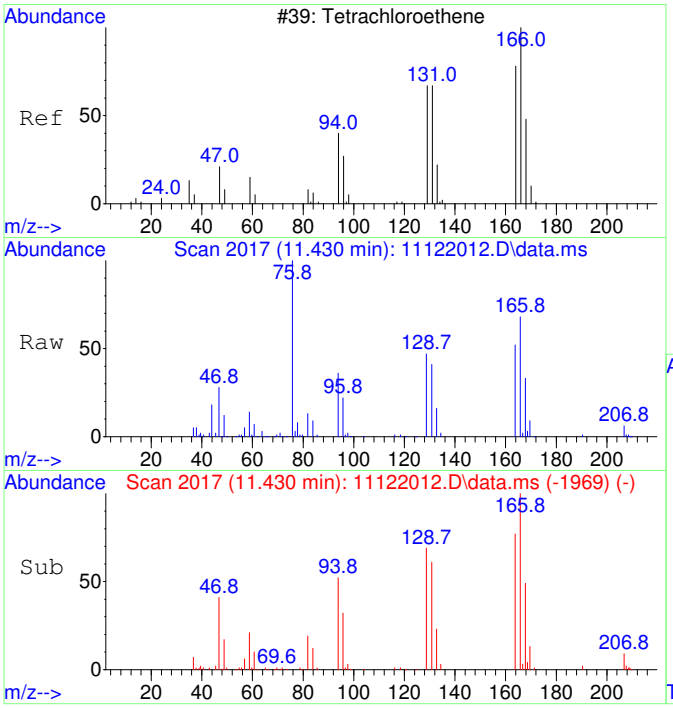


#38
1,1,2-Trichloroethane SCAN
Concen: 22.28 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. 0.011 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 97 Resp: 278

Ion	Ratio	Lower	Upper
97	100		
83	145.7	57.7	117.7#
61	0.0	32.1	92.1#
99	0.0	36.7	96.7#

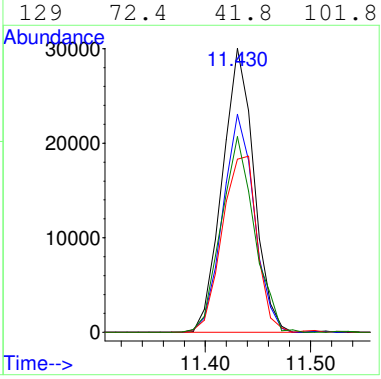


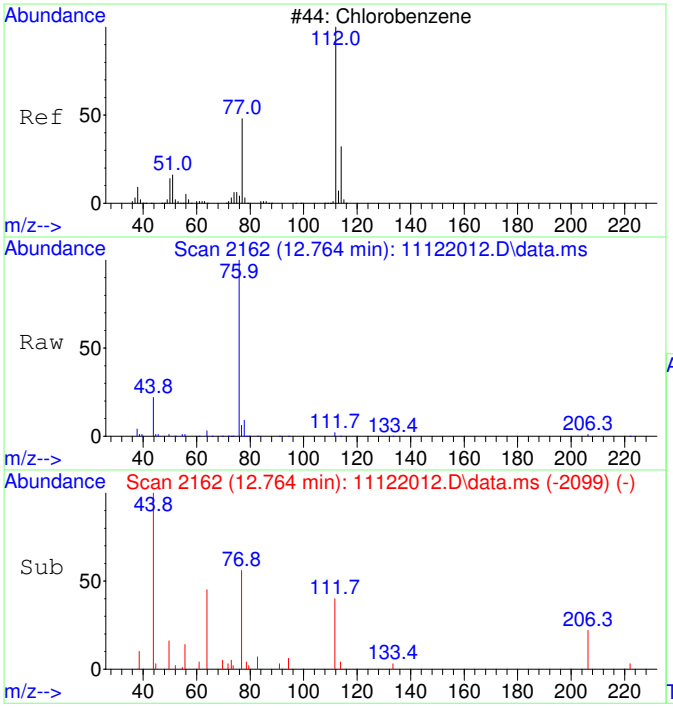


#39
Tetrachloroethene SCAN
Concen: 4698.17 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:166 Resp: 62751

Ion	Ratio	Lower	Upper
166	100		
164	76.9	50.9	110.9
131	69.0	38.7	98.7
129	72.4	41.8	101.8

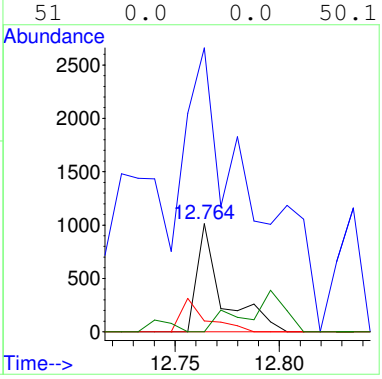


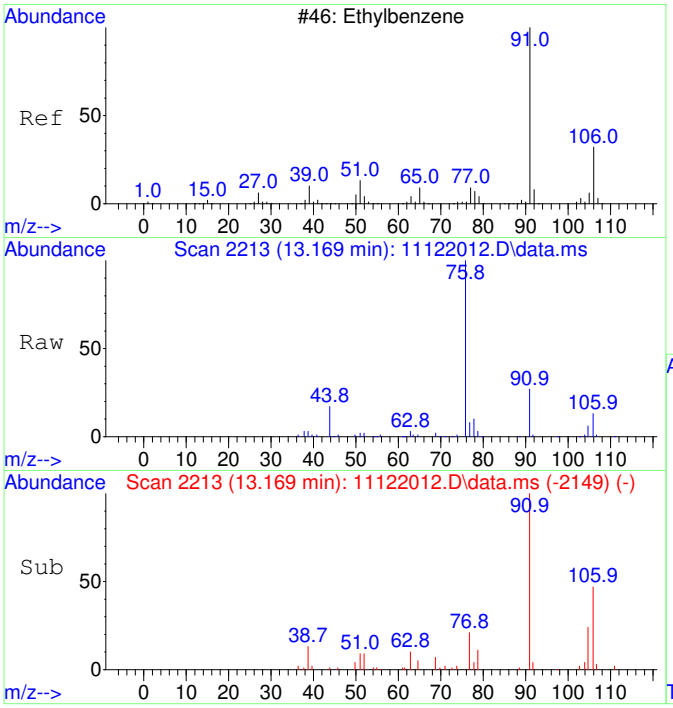


#40
Chlorobenzene SCAN
Concen: 22.37 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:112 Resp: 850

Ion	Ratio	Lower	Upper
112	100		
77	482.7	28.2	88.2#
114	31.8	2.3	62.3
51	0.0	0.0	50.1

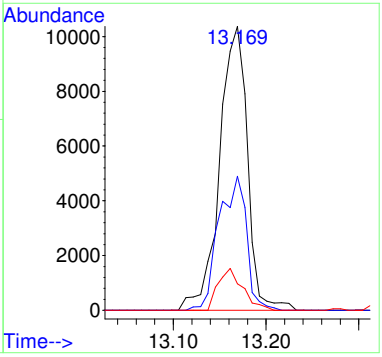


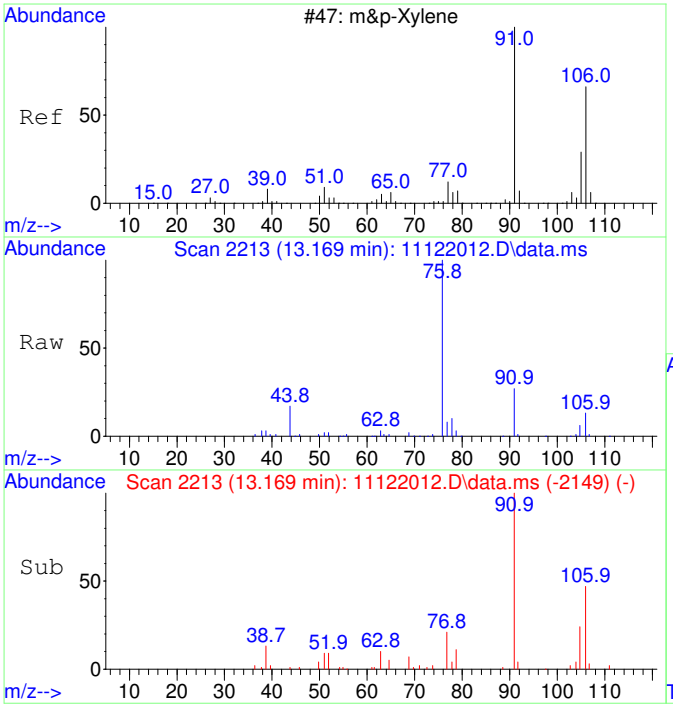


#42
Ethylbenzene SCAN
Concen: 214.35 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 21710

Ion	Ratio	Lower	Upper
91	100		
106	46.9	23.1	83.1
51	13.1	0.0	40.1

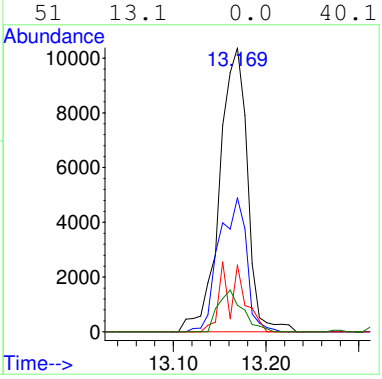


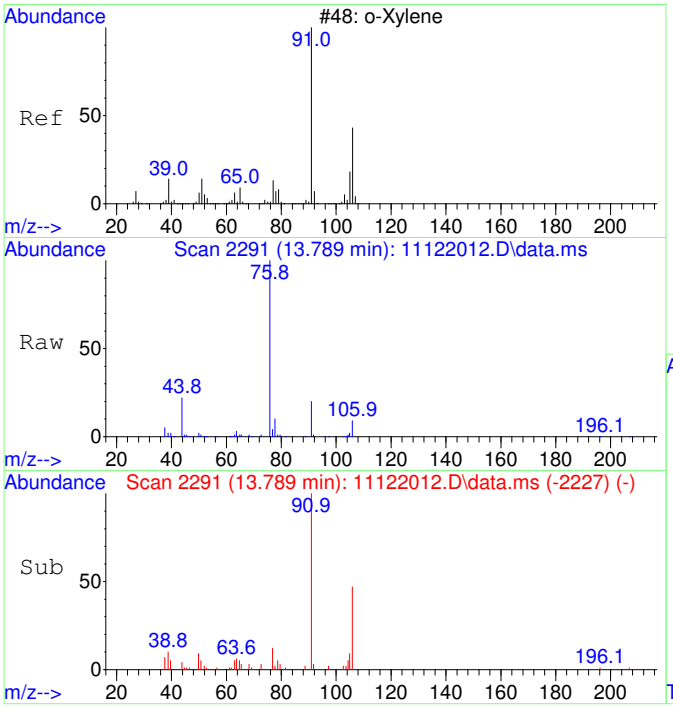


#43
m&p-Xylene SCAN
Concen: 214.35 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 21710

Ion	Ratio	Lower	Upper
91	100		
106	46.9	23.1	83.1
105	5.9	0.0	54.7
51	13.1	0.0	40.1

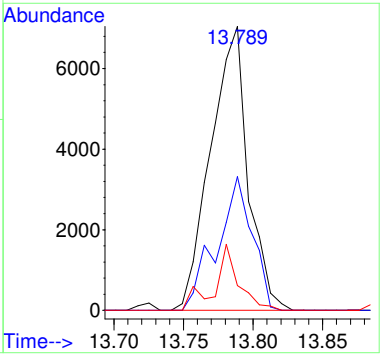


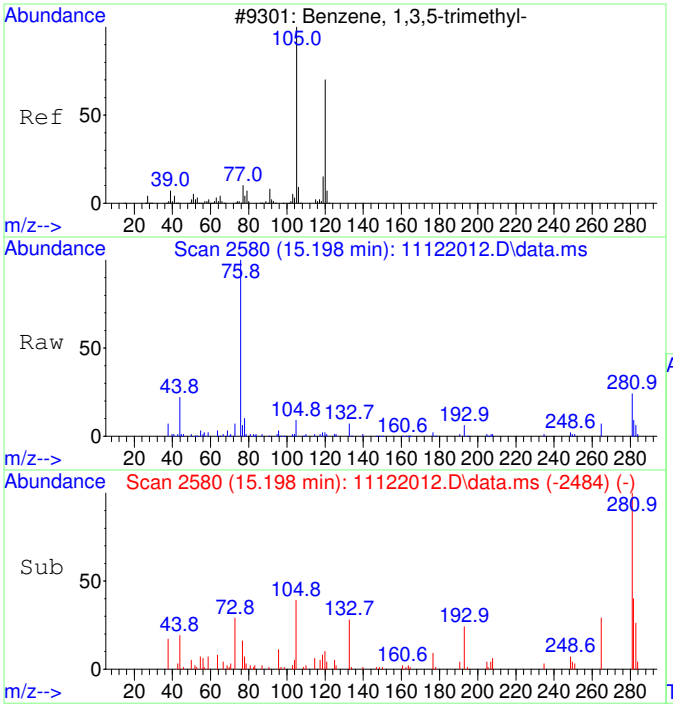


#44
o-Xylene SCAN
Concen: 242.61 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. 0.008 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion: 91 Resp: 13153

Ion	Ratio	Lower	Upper
91	100		
106	44.9	18.0	78.0
105	15.0	0.0	56.6

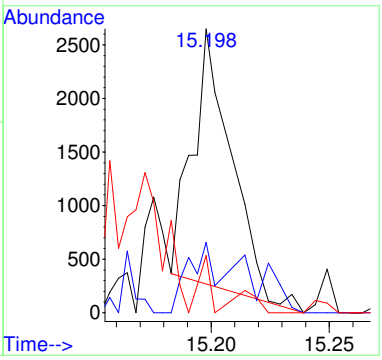


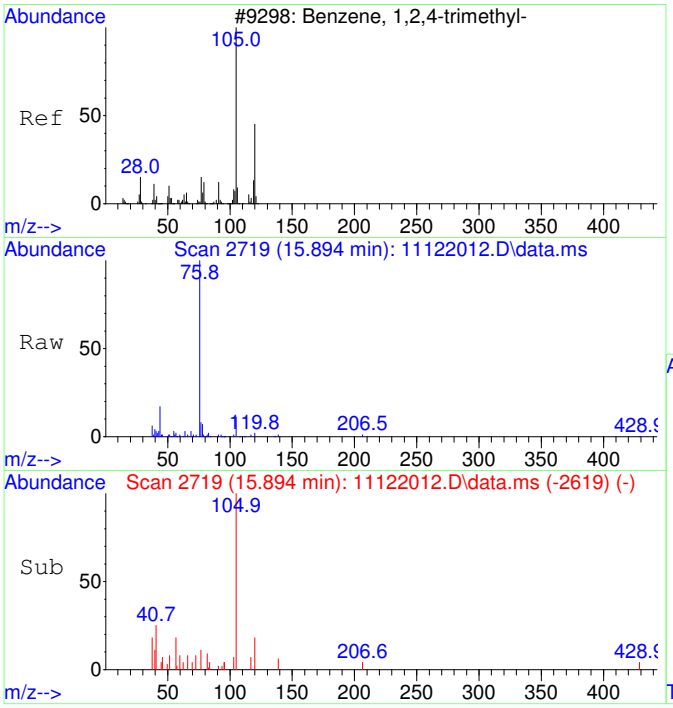


#46
1,3,5-Trimethylbenzene SCAN
Concen: 46.75 ug/L
RT: 15.198 min Scan# 2580
Delta R.T. -0.146 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:105 Resp: 2671

Ion	Ratio	Lower	Upper
105	100		
120	39.4	18.3	78.3
119	14.2	0.0	43.1

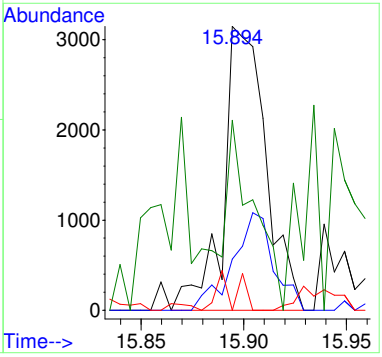




#47
1,2,4-Trimethylbenzene SCAN
Concen: 77.11 ug/L
RT: 15.894 min Scan# 2719
Delta R.T. -0.005 min
Lab File: 11122012.D
Acq: 12 Nov 2020 12:48

Tgt Ion:105 Resp: 4508

Ion	Ratio	Lower	Upper
105	100		
120	33.0	16.9	76.9
119	6.2	0.0	41.9
77	29.2	0.0	42.3



2011015-05

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122013.D
Acq On : 12 Nov 2020 13:12
InstName : AG5975C
Operator : TD
Sample : 2011015-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 12 13:31:22 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

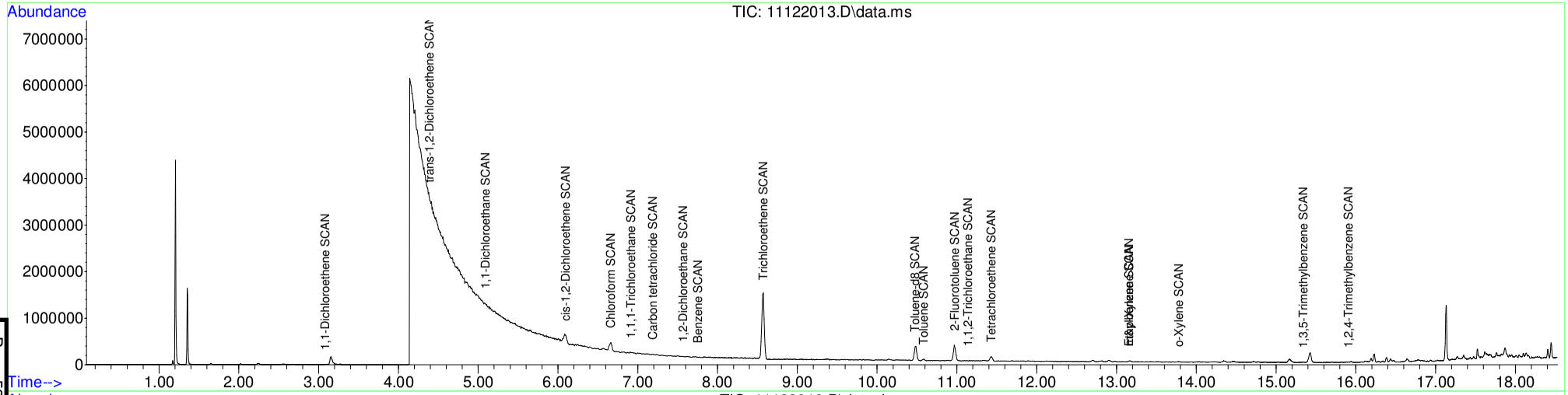
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	500514	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	429157	4380.00 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.60%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.093	61	10874	544.07 ug/L	79
3] trans-1,2-Dichloroethene	4.382	61	15083	653.18 ug/L	99
4] 1,1-Dichloroethane	5.085	63	10539	366.64 ug/L	94
5] cis-1,2-Dichloroethene	6.087	61	273599	9017.20 ug/L	99
6] Chloroform	6.651	83	307371	9897.28 ug/L	100
7] 1,1,1-Trichloroethane	6.919	97	8936	264.95 ug/L	98
8] Carbon tetrachloride	7.187	117	2203	69.40 ug/L	99
9] Benzene	7.503	78	11904	139.98 ug/L	59
10] 1,2-Dichloroethane	7.551	62	1717	56.56 ug/L #	1
11] Trichloroethene	8.569	130	980355	38288.44 ug/L	93
13] Toluene	10.581	91	49486	396.15 ug/L	98
14] 1,1,2-Trichloroethane	11.159	97	696	25.57 ug/L #	9
15] Tetrachloroethene	11.432	166	59302	1640.41 ug/L	100
16] Chlorobenzene	12.765	112	1847	20.65 ug/L	64
18] Ethylbenzene	12.972	91	10611	69.79 ug/L	95
19] m&p-Xylene	13.162	91	27640	232.59 ug/L	95
20] o-Xylene	13.782	91	12432	97.92 ug/L	95
22] 1,3,5-Trimethylbenzene	15.345	105	3402	25.17 ug/L	91
23] 1,2,4-Trimethylbenzene	15.901	105	9433	67.20 ug/L	88
25) 2-Fluorotoluene SCAN	10.968	109	266350	5459.01 ug/L	97
26) 1,1-Dichloroethene SCAN	3.077	61	1074	103.65 ug/L	78
27) trans-1,2-Dichloroethe...	4.388	61	8452	659.18 ug/L	85
28) 1,1-Dichloroethane SCAN	5.084	63	3431	231.22 ug/L #	74
29) cis-1,2-Dichloroethene...	6.093	61	163104	10259.08 ug/L #	81
30) Chloroform SCAN	6.662	83	169899	9852.57 ug/L	95
31) 1,1,1-Trichloroethane ...	6.918	97	5237	333.26 ug/L	85
32) Carbon tetrachloride SCAN	7.185	117	896	54.66 ug/L	90
33) Benzene SCAN	7.757	78	9737	225.04 ug/L	91
34) 1,2-Dichloroethane SCAN	7.562	62	1570	98.27 ug/L #	40
35) Trichloroethene SCAN	8.568	130	496133	41726.50 ug/L	84
36) Toluene-d8 SCAN	10.475	98	241014	5051.01 ug/L	95
37) Toluene SCAN	10.580	91	25644	419.65 ug/L	92
38) 1,1,2-Trichloroethane ...	11.136	97	1061	77.35 ug/L #	18
39) Tetrachloroethene SCAN	11.430	166	27899	1900.36 ug/L	93
42) Ethylbenzene SCAN	13.153	91	15714	141.15 ug/L	82
43) m&p-Xylene SCAN	13.153	91	15714	141.15 ug/L	84
44) o-Xylene SCAN	13.773	91	6459	108.39 ug/L	81
46) 1,3,5-Trimethylbenzene...	15.338	105	1621	25.81 ug/L	85
47) 1,2,4-Trimethylbenzene...	15.904	105	3476	54.09 ug/L #	69

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122013.D
Acq On : 12 Nov 2020 13:12
InstName : AG5975C
Operator : TD
Sample : 2011015-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 12 13:31:22 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



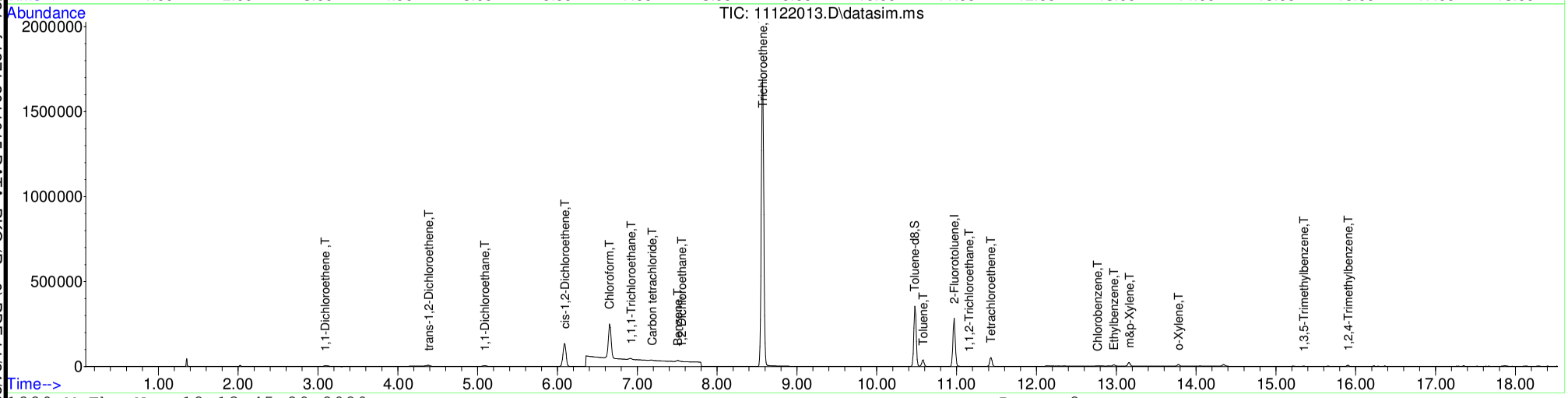
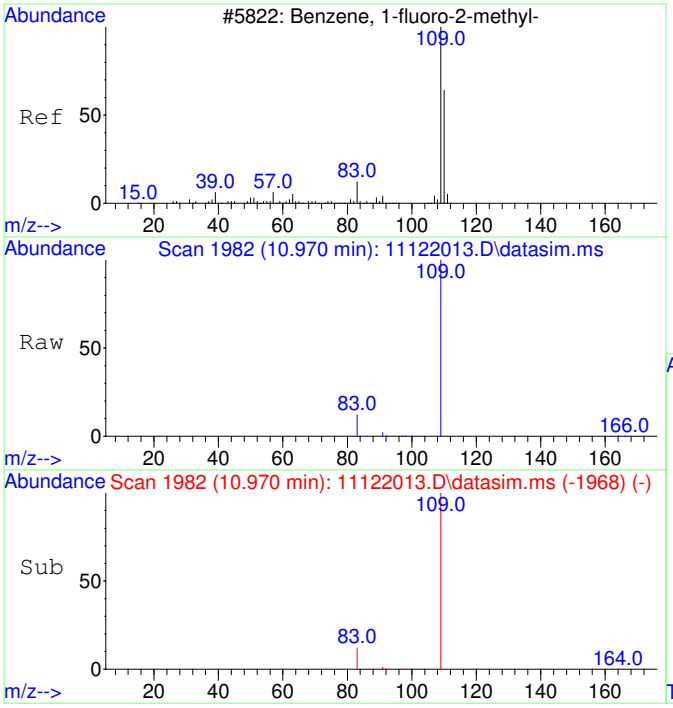


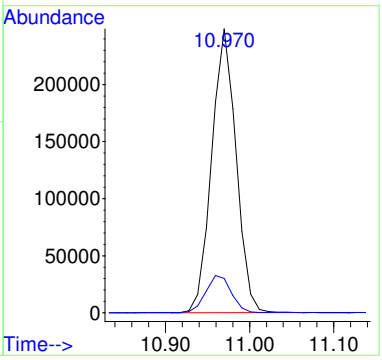
Table of Contents

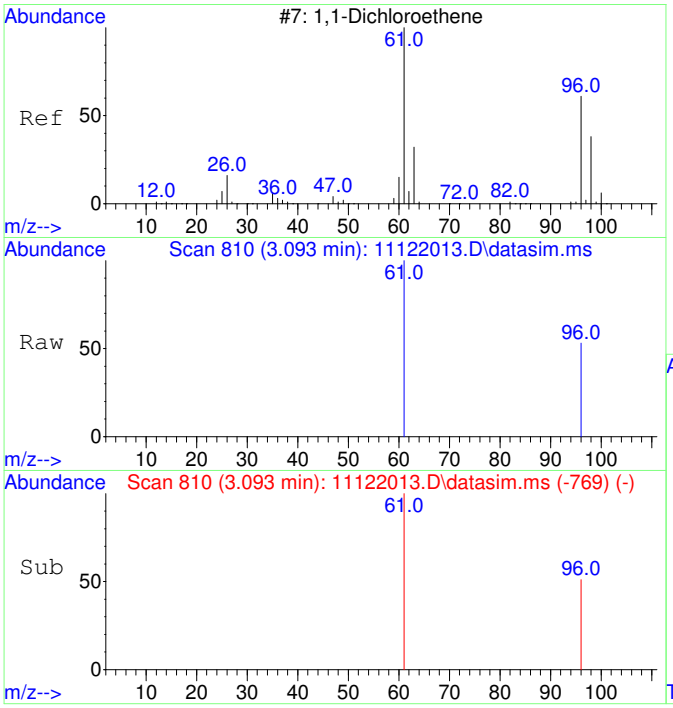


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:109 Resp: 500514

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

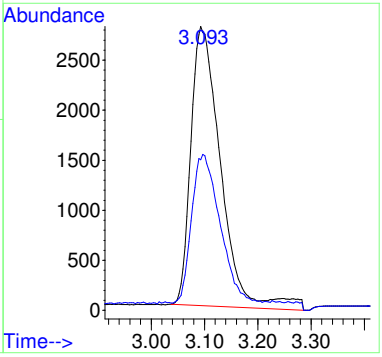




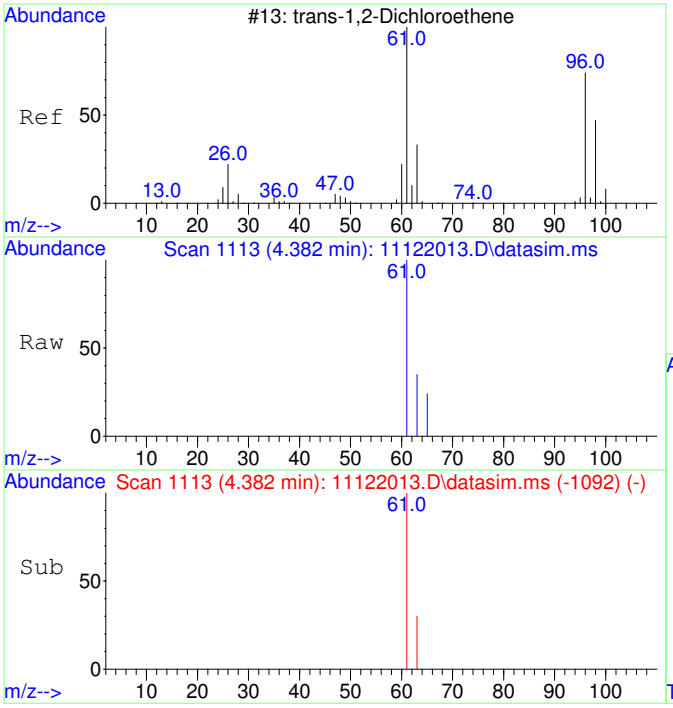
#2
1,1-Dichloroethene
Concen: 544.07 ug/L
RT: 3.093 min Scan# 810
Delta R.T. 0.003 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 61 Resp: 10874

Ion	Ratio	Lower	Upper
61	100		
96	50.1	37.2	97.2



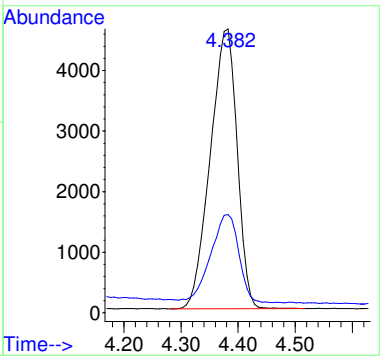
Before MI:
IMPROPER
BASELINE

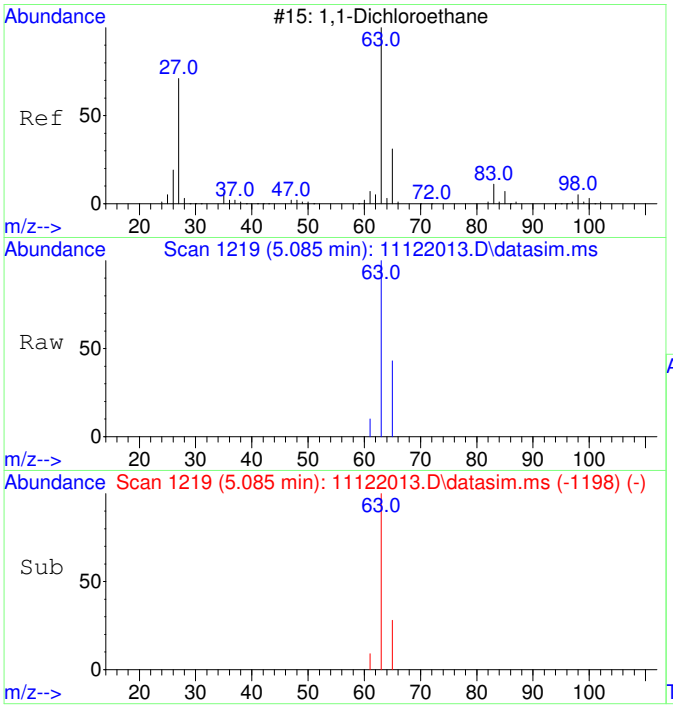


#3
trans-1,2-Dichloroethene
Concen: 653.18 ug/L
RT: 4.382 min Scan# 1113
Delta R.T. -0.013 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 61 Resp: 15083

Ion	Ratio	Lower	Upper
61	100		
63	33.0	2.4	62.4

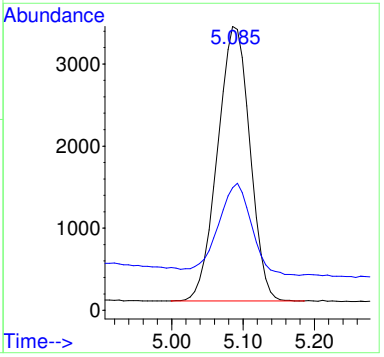


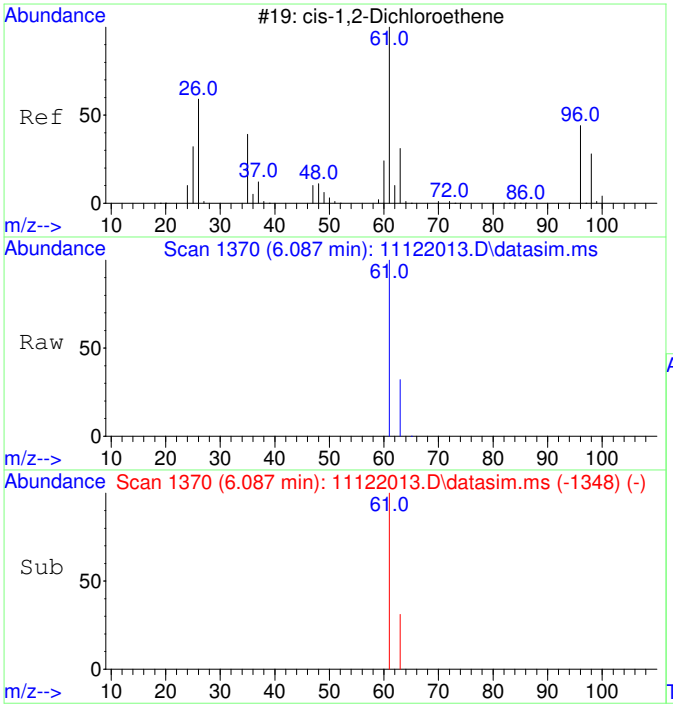


#4
1,1-Dichloroethane
Concen: 366.64 ug/L
RT: 5.085 min Scan# 1219
Delta R.T. -0.013 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 63 Resp: 10539

Ion	Ratio	Lower	Upper
63	100		
65	35.2	1.8	61.8

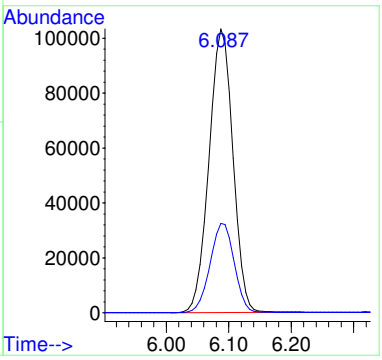


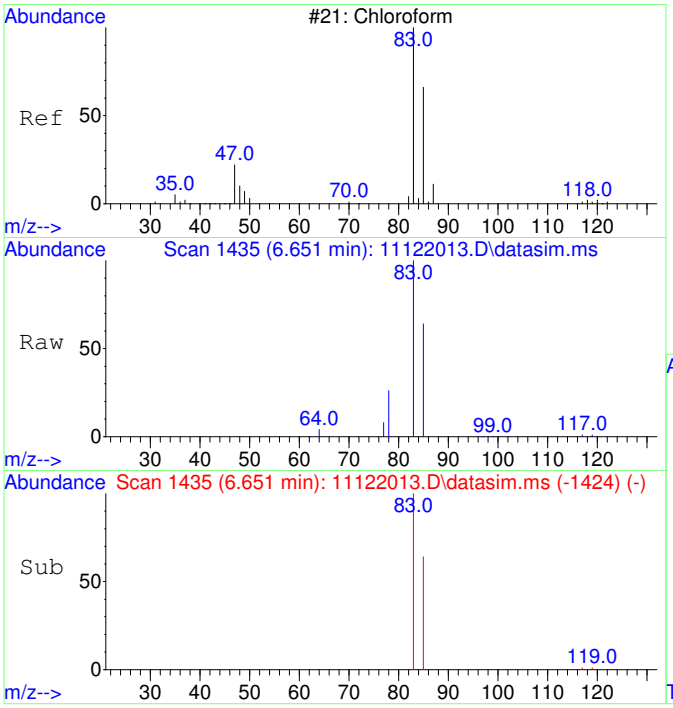


#5
cis-1,2-Dichloroethene
Concen: 9017.20 ug/L
RT: 6.087 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 61 Resp: 273599

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

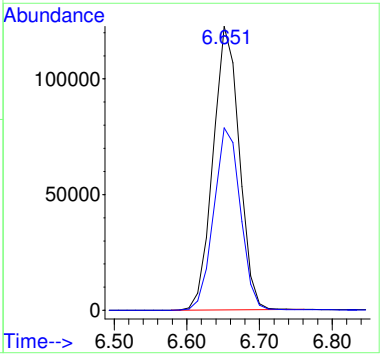


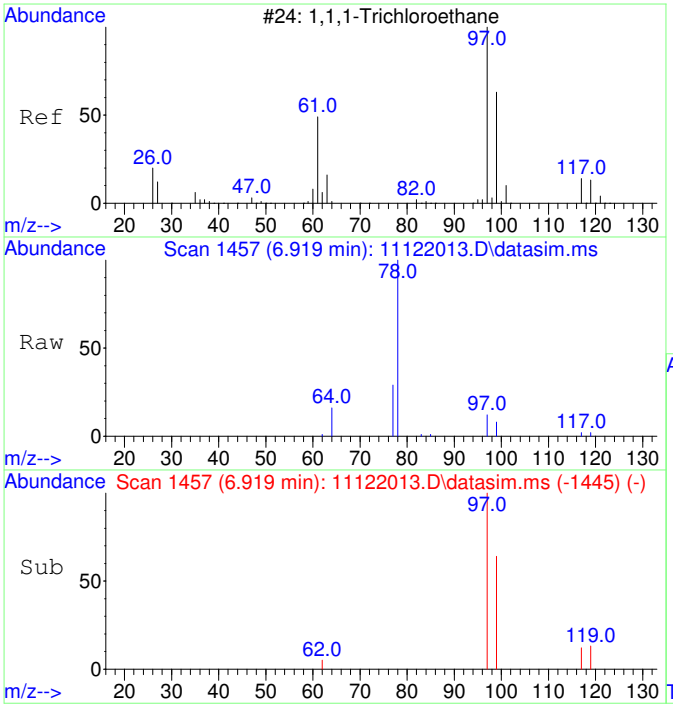


#6
Chloroform
Concen: 9897.28 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 83 Resp: 307371

Ion	Ratio	Lower	Upper
83	100		
85	65.1	35.1	95.1

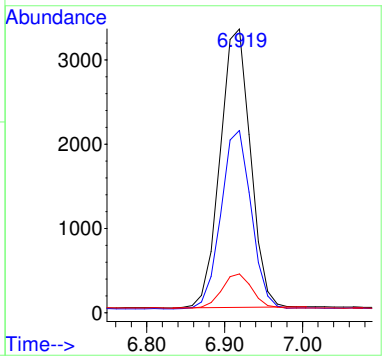


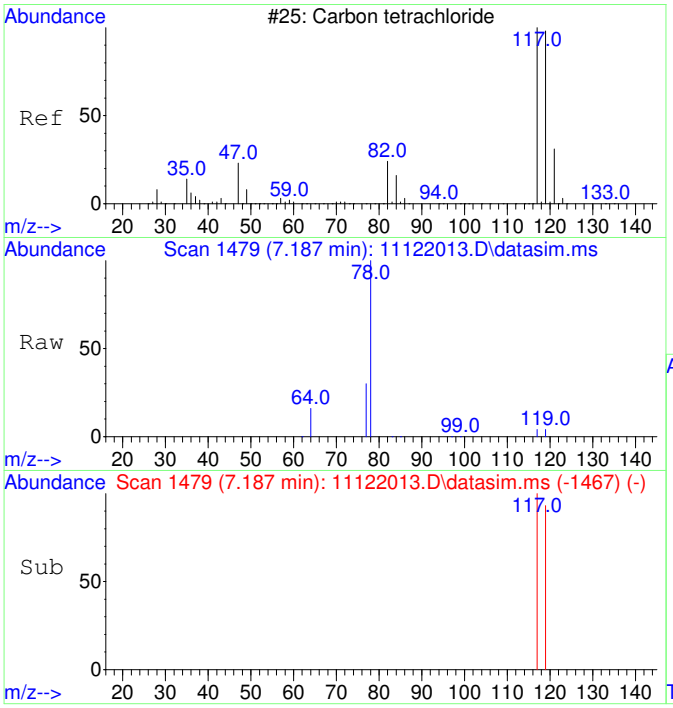


#7
1,1,1-Trichloroethane
Concen: 264.95 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 97 Resp: 8936

Ion	Ratio	Lower	Upper
97	100		
99	63.5	34.6	94.6
117	12.3	0.0	43.2

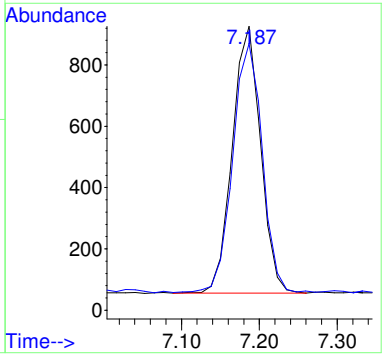


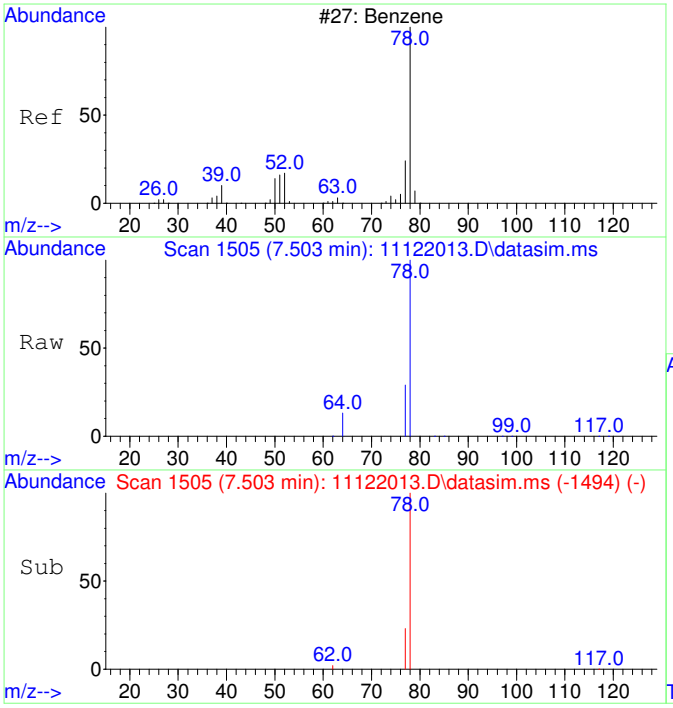


#8
Carbon tetrachloride
Concen: 69.40 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:117 Resp: 2203

Ion	Ratio	Lower	Upper
117	100		
119	97.0	66.4	126.4

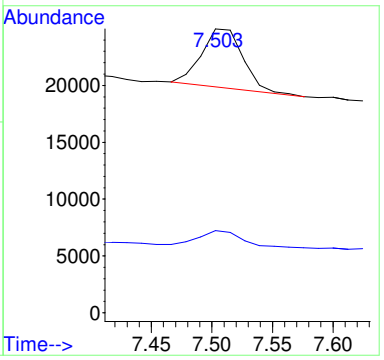


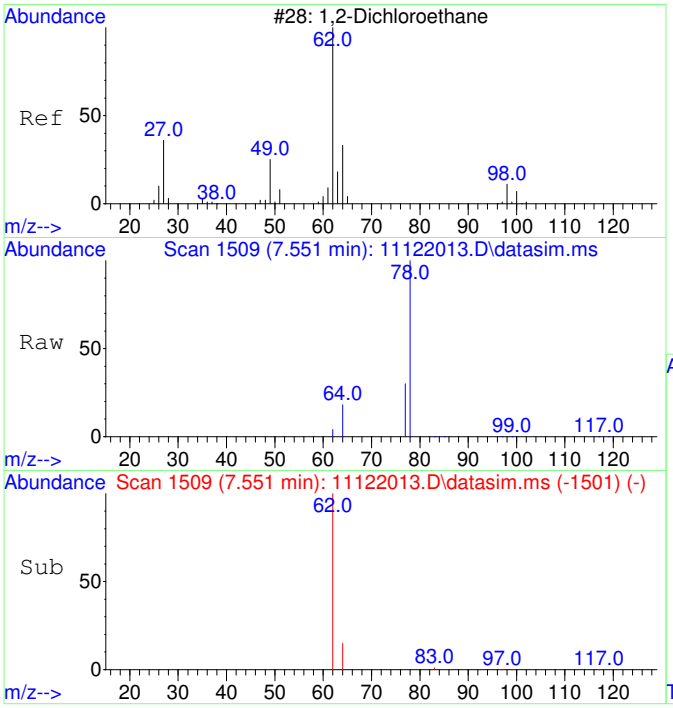


#9
Benzene
Concen: 139.98 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 78 Resp: 11904

Ion	Ratio	Lower	Upper
78	100		
77	43.3	0.0	53.2

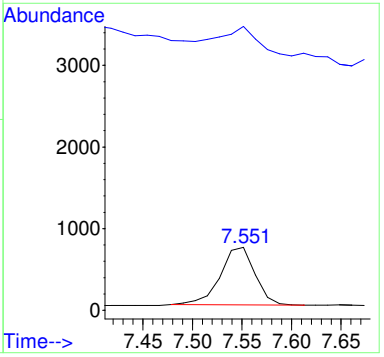


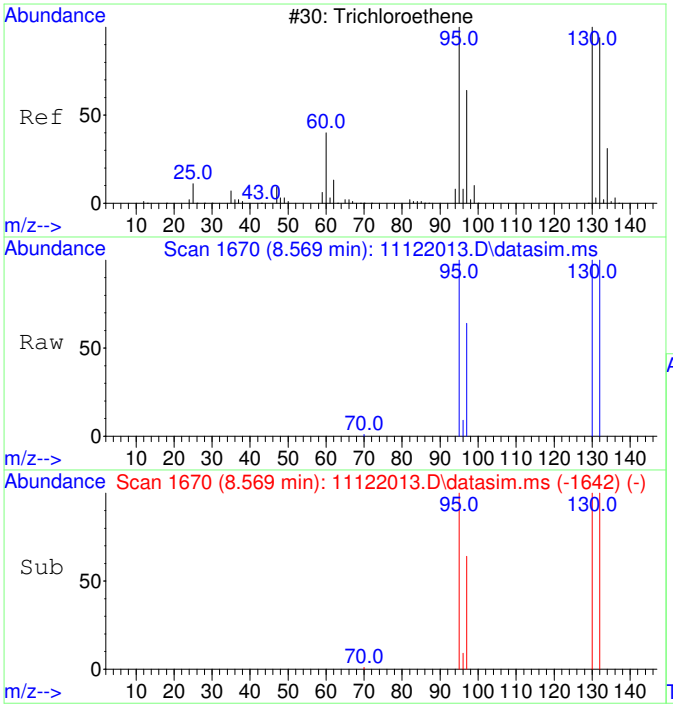


#10
1,2-Dichloroethane
Concen: 56.56 ug/L
RT: 7.551 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 62 Resp: 1717

Ion	Ratio	Lower	Upper
62	100		
64	107.5	2.3	62.3#

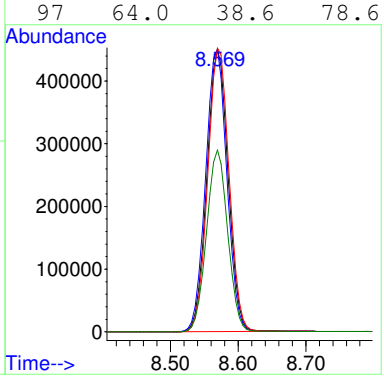


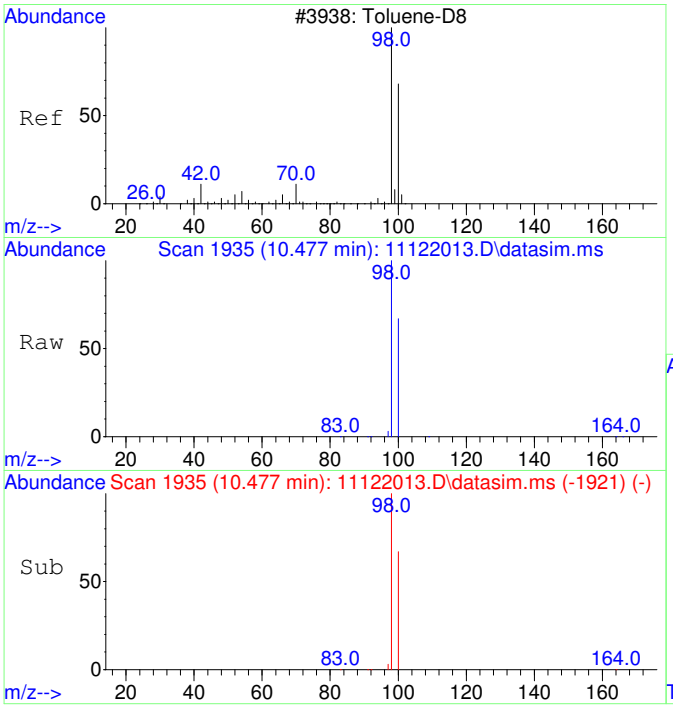


#11
Trichloroethene
Concen: 38288.44 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:130 Resp: 980355

Ion	Ratio	Lower	Upper
130	100		
95	100.2	60.7	120.7
132	100.8	76.0	116.0
97	64.0	38.6	78.6

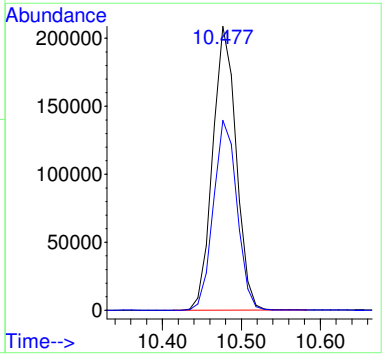


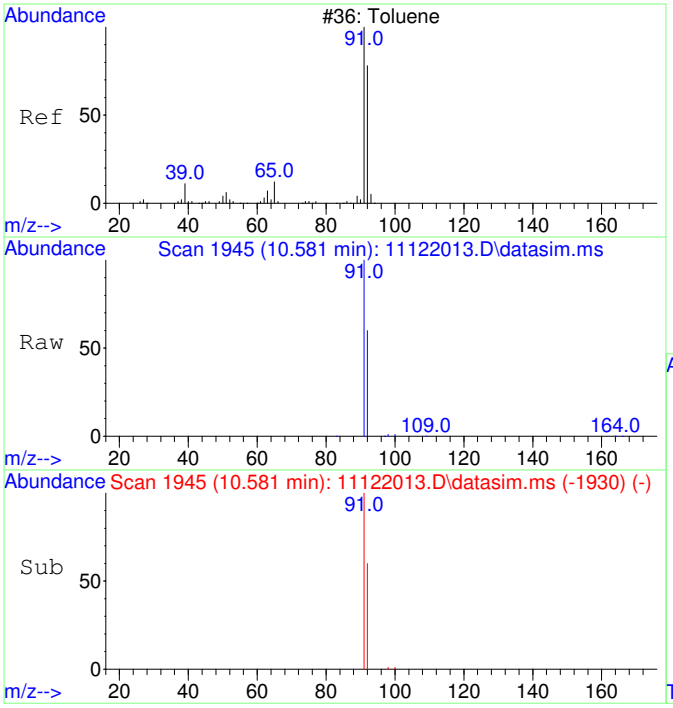


#12
Toluene-d8
Concen: 4380.00 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 98 Resp: 429157

Ion	Ratio	Lower	Upper
98	100		
100	67.2	37.1	97.1

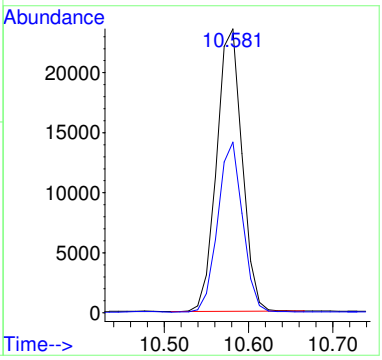


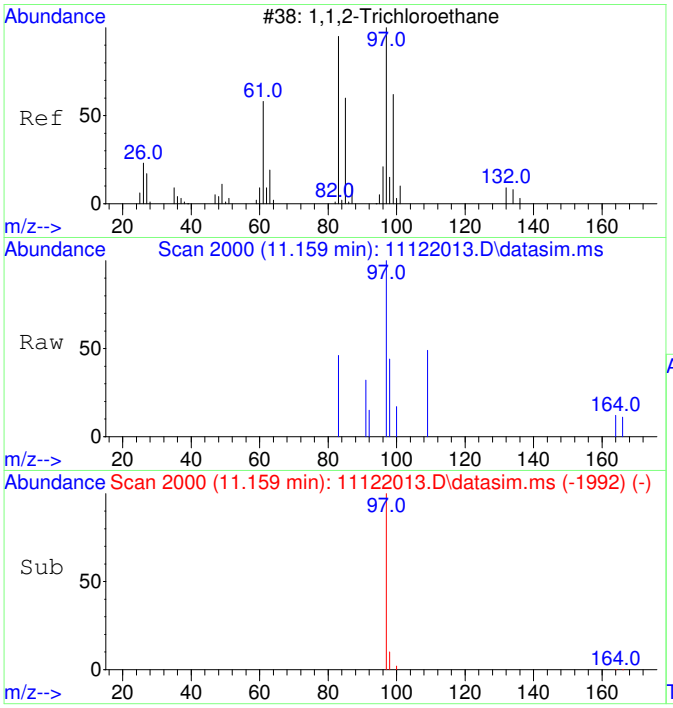


#13
Toluene
Concen: 396.15 ug/L
RT: 10.581 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 49486

Ion	Ratio	Lower	Upper
91	100		
92	58.7	29.9	89.9

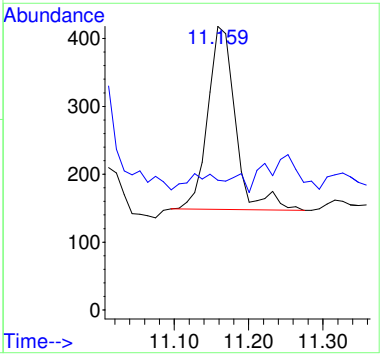


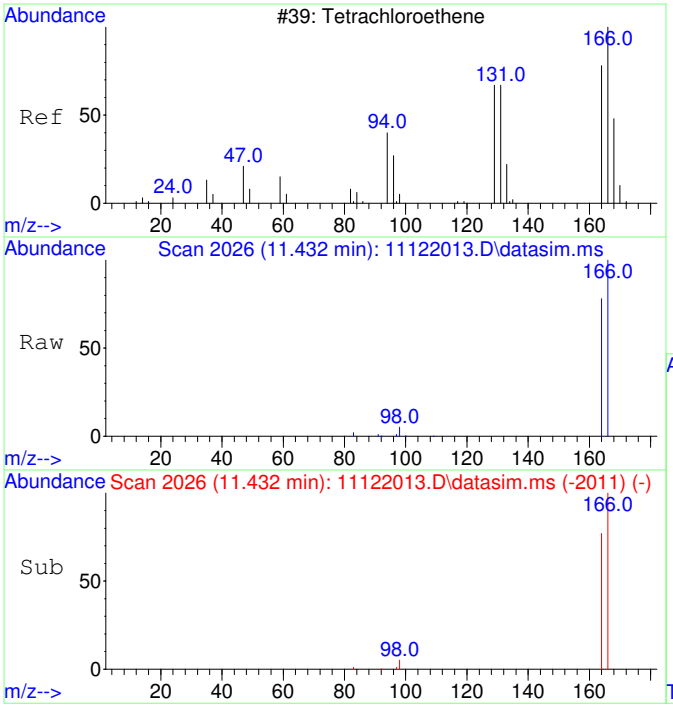


#14
1,1,2-Trichloroethane
Concen: 25.57 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 97 Resp: 696

Ion	Ratio	Lower	Upper
97	100		
83	0.0	51.2	111.2#

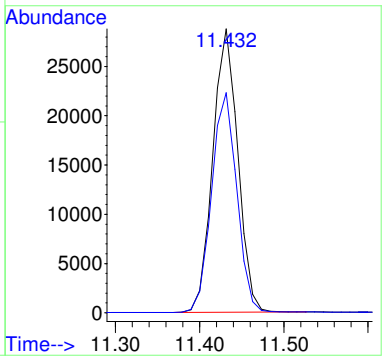


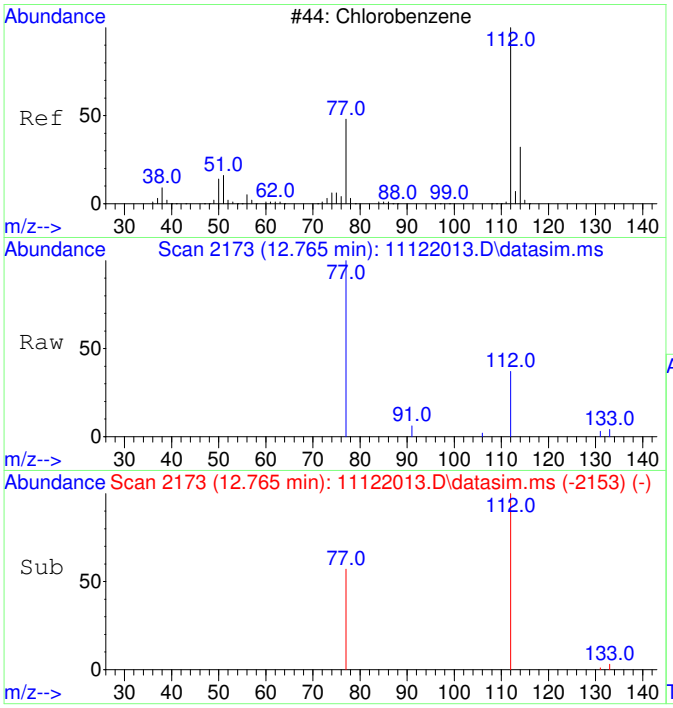


#15
Tetrachloroethene
Concen: 1640.41 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:166 Resp: 59302

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

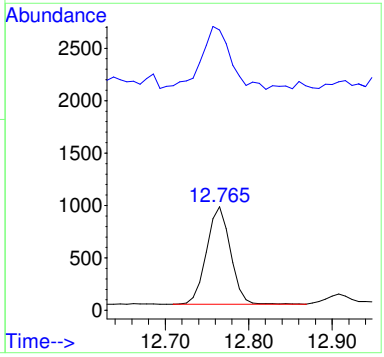


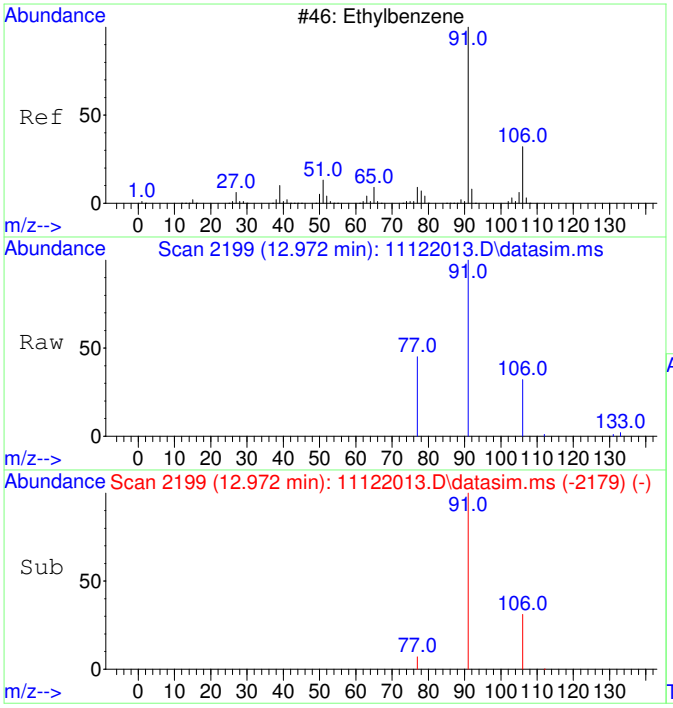


#16
Chlorobenzene
Concen: 20.65 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:112 Resp: 1847

Ion	Ratio	Lower	Upper
112	100		
77	79.5	23.6	83.6

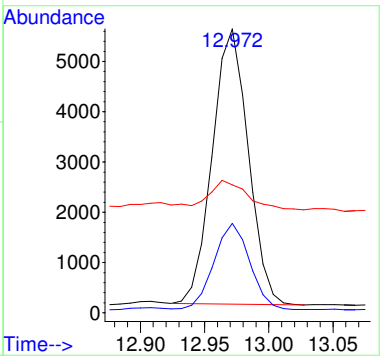


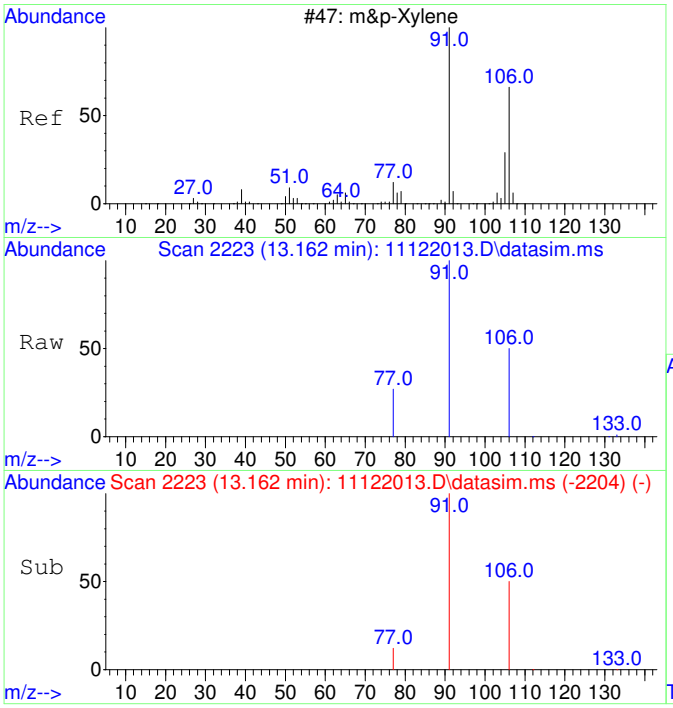


#18
Ethylbenzene
Concen: 69.79 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 10611

Ion	Ratio	Lower	Upper
91	100		
106	30.8	3.0	63.0
77	11.4	0.0	38.2

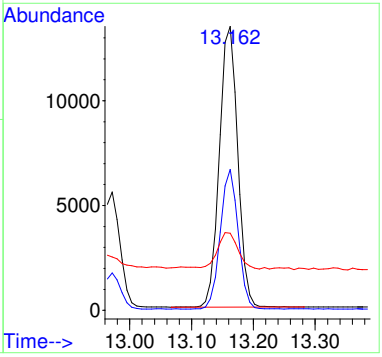


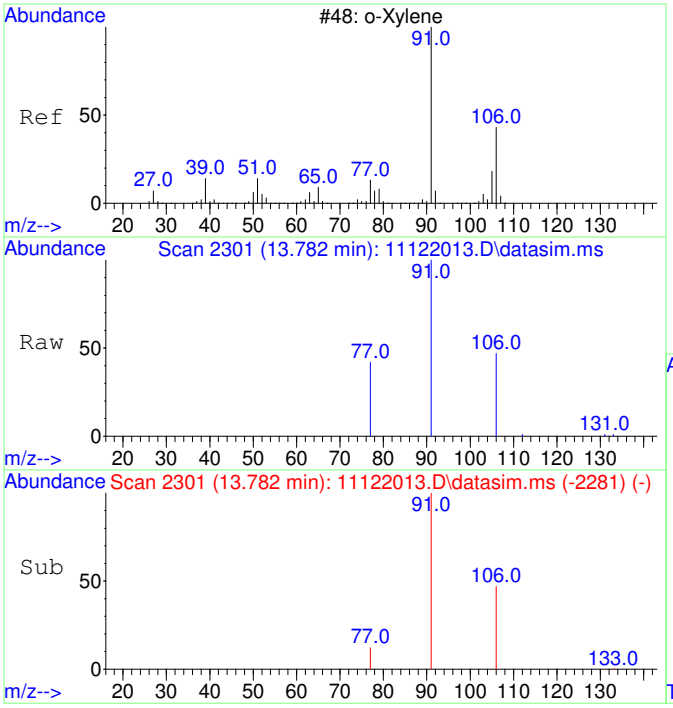


#19
m&p-Xylene
Concen: 232.59 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 27640

Ion	Ratio	Lower	Upper
91	100		
106	48.4	22.2	82.2
77	14.5	0.0	42.4

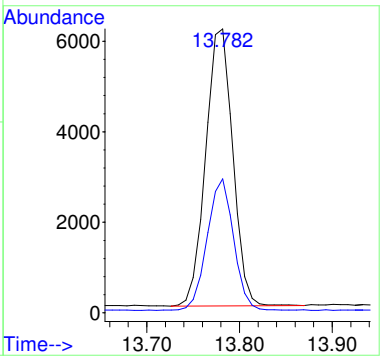


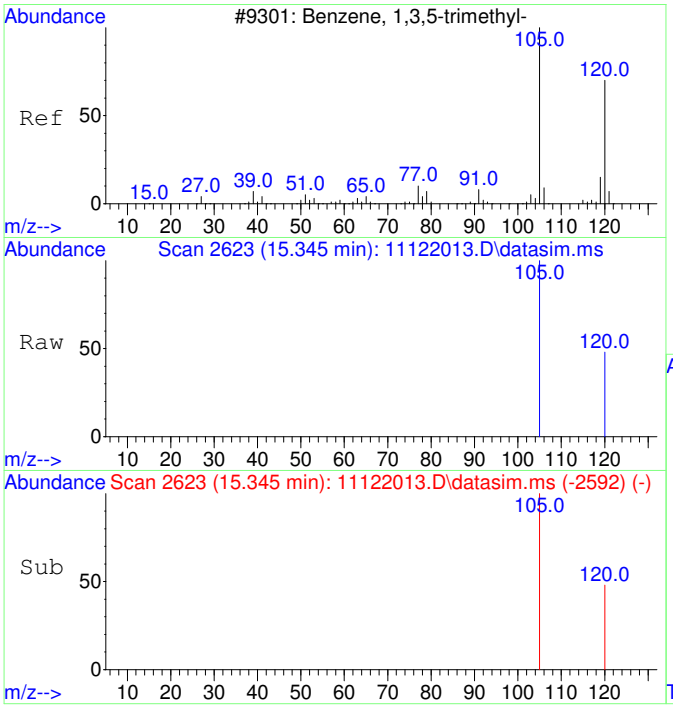


#20
o-Xylene
Concen: 97.92 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 12432

Ion	Ratio	Lower	Upper
91	100		
106	46.1	19.2	79.2

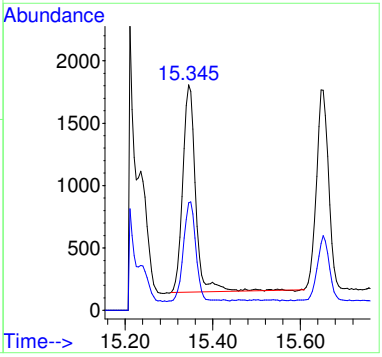


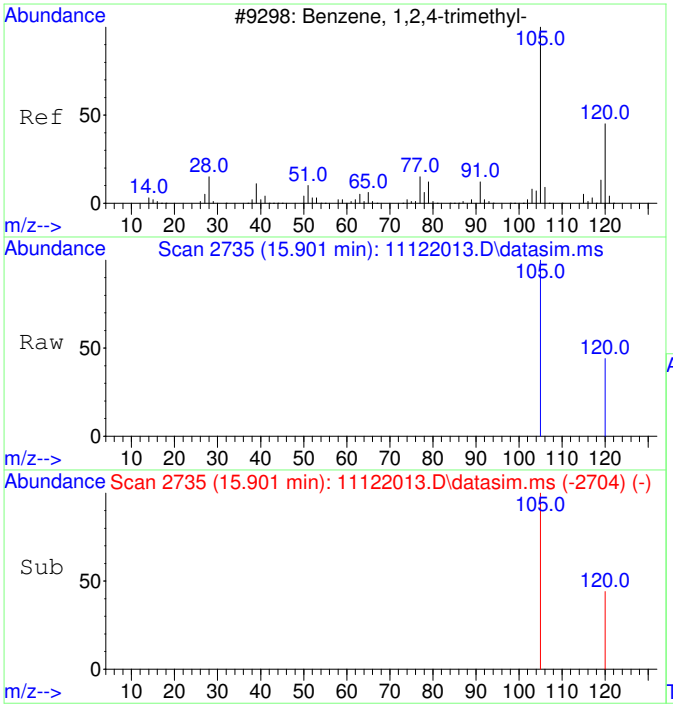


#22
1,3,5-Trimethylbenzene
Concen: 25.17 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:105 Resp: 3402

Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.1	81.1

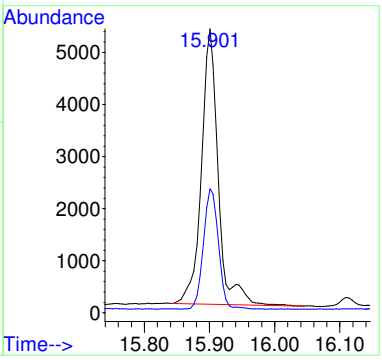


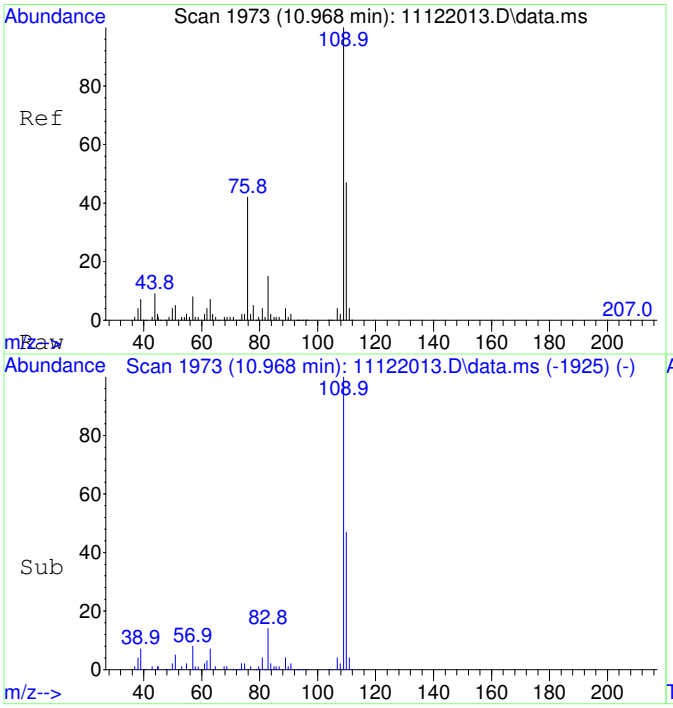


#23
1,2,4-Trimethylbenzene
Concen: 67.20 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:105 Resp: 9433

Ion	Ratio	Lower	Upper
105	100		
120	39.1	17.2	77.2

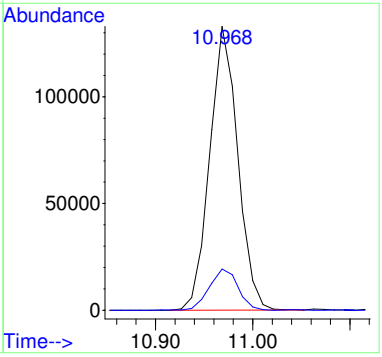


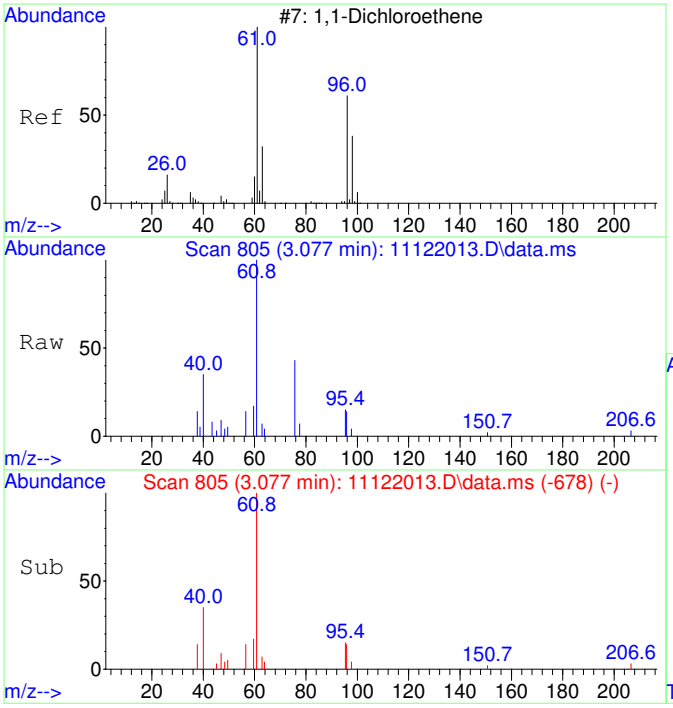


#25
2-Fluorotoluene SCAN
Concen: 5459.01 ug/L
RT: 10.968 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:109 Resp: 266350

Ion	Ratio	Lower	Upper
109	100		
83	15.0	0.0	43.8

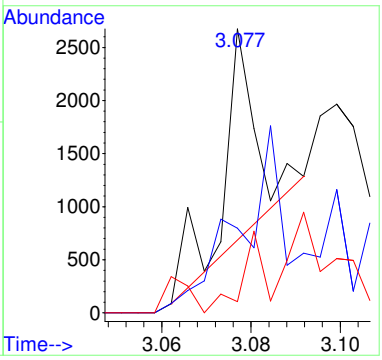


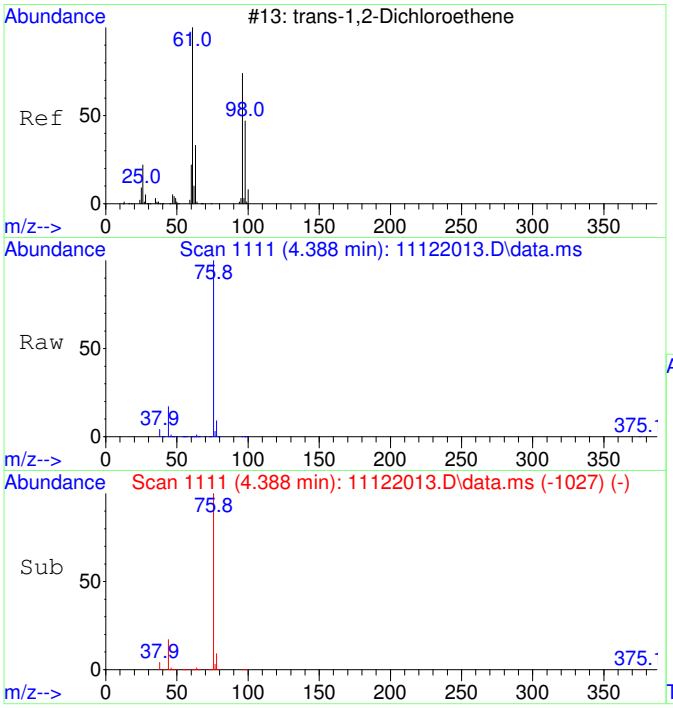


#26
1,1-Dichloroethene SCAN
Concen: 103.65 ug/L
RT: 3.077 min Scan# 805
Delta R.T. -0.030 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 61 Resp: 1074

Ion	Ratio	Lower	Upper
61	100		
96	74.0	33.1	93.1
98	19.5	11.2	71.2

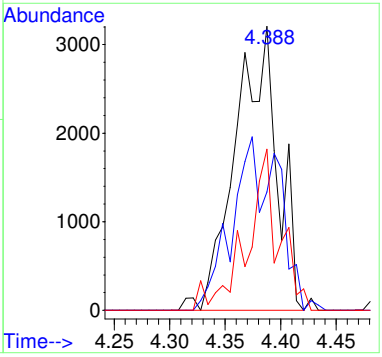


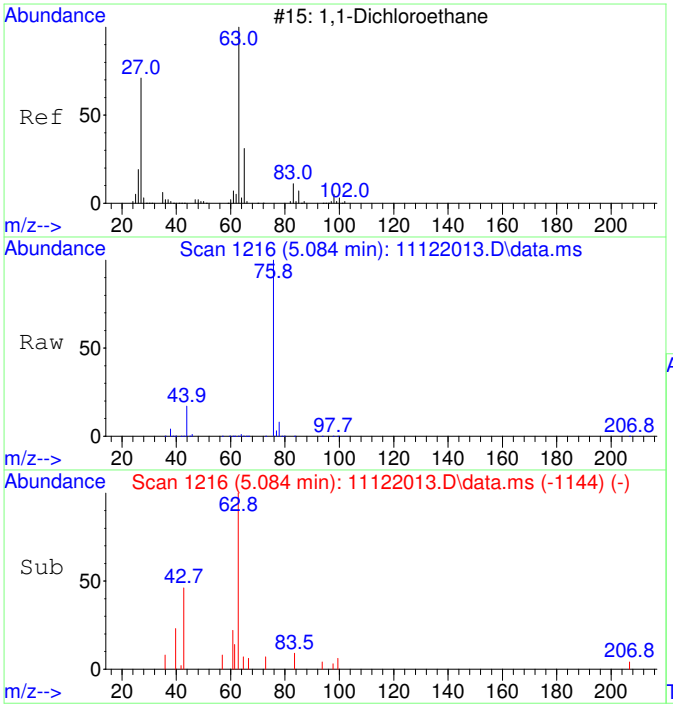


#27
trans-1,2-Dichloroethene SCAN
Concen: 659.18 ug/L
RT: 4.388 min Scan# 1111
Delta R.T. -0.013 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 61 Resp: 8452

Ion	Ratio	Lower	Upper
61	100		
96	67.3	49.0	109.0
98	39.0	20.5	80.5

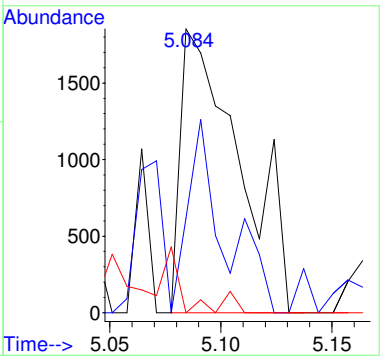


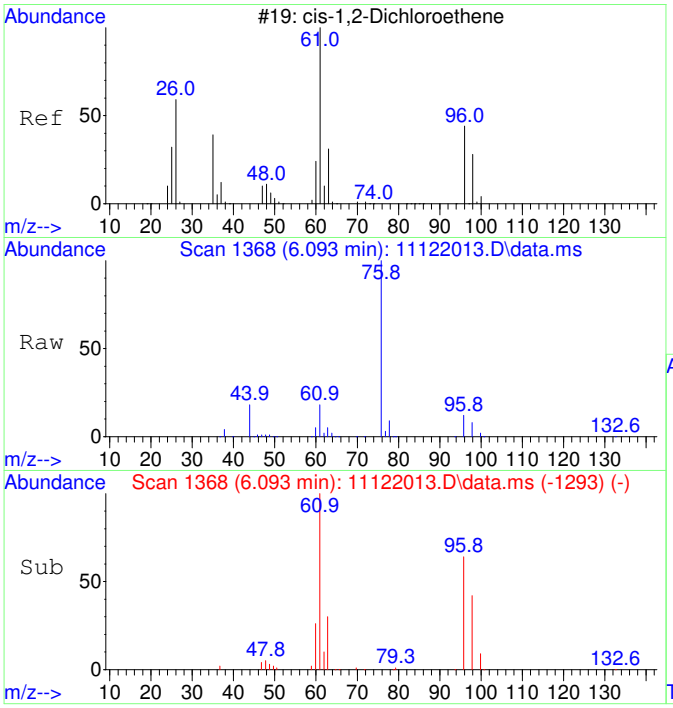


#28
1,1-Dichloroethane SCAN
Concen: 231.22 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. -0.020 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 63 Resp: 3431

Ion	Ratio	Lower	Upper
63	100		
65	42.2	1.3	61.3
83	0.0	0.0	45.9

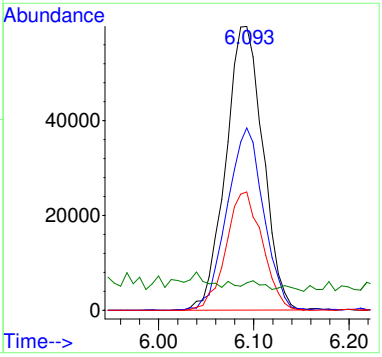


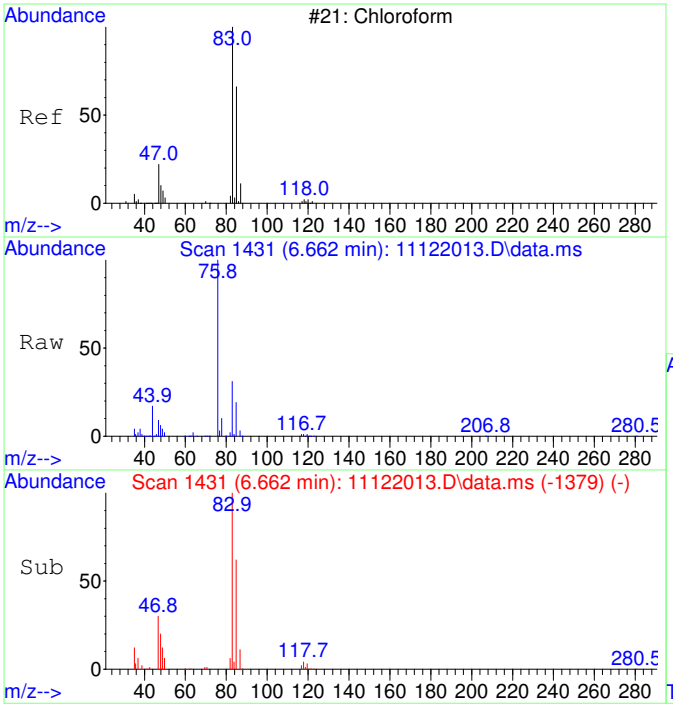


#29
cis-1,2-Dichloroethene SCAN
Concen: 10259.08 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 61 Resp: 163104

Ion	Ratio	Lower	Upper
61	100		
96	63.2	39.9	99.9
98	40.9	13.5	73.5
64	0.8	4.5	64.5#

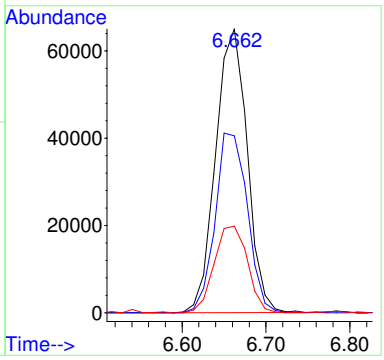


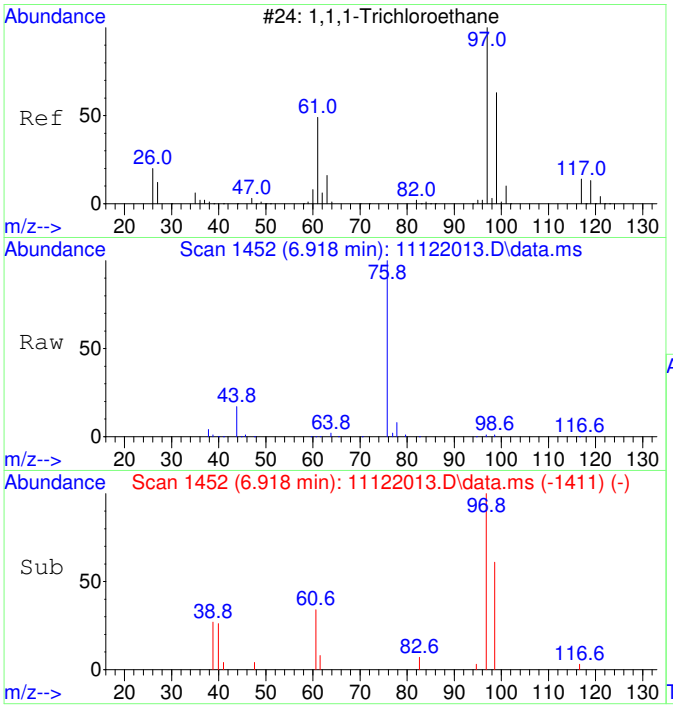


#30
Chloroform SCAN
Concen: 9852.57 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 83 Resp: 169899

Ion	Ratio	Lower	Upper
83	100		
85	65.0	34.6	94.6
47	32.3	0.0	53.4

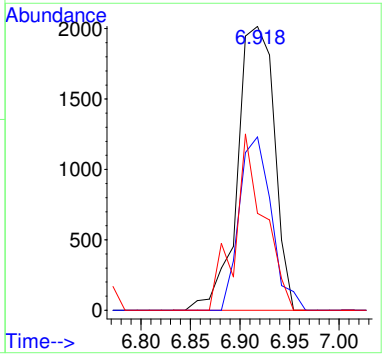


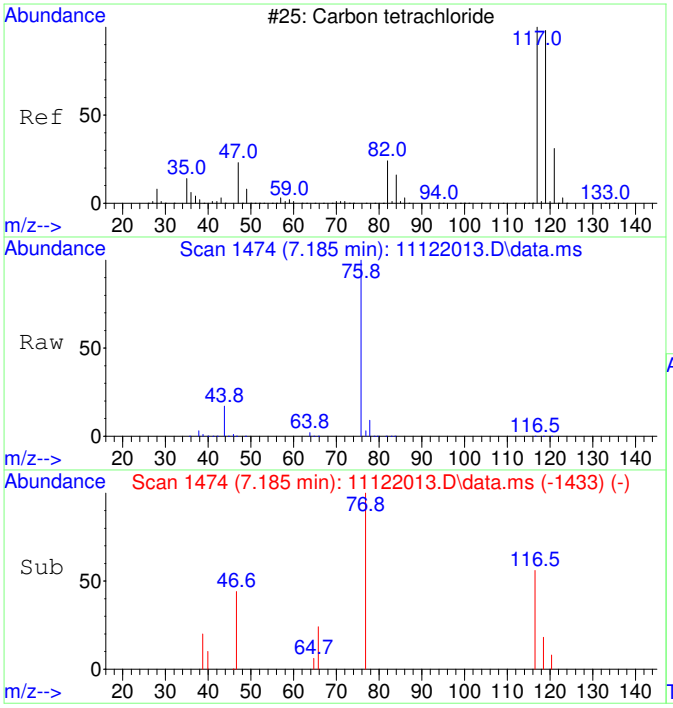


#31
1,1,1-Trichloroethane SCAN
Concen: 333.26 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 97 Resp: 5237

Ion	Ratio	Lower	Upper
97	100		
99	53.1	43.6	103.6
61	49.0	18.0	78.0

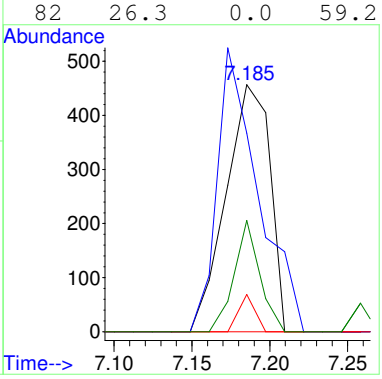


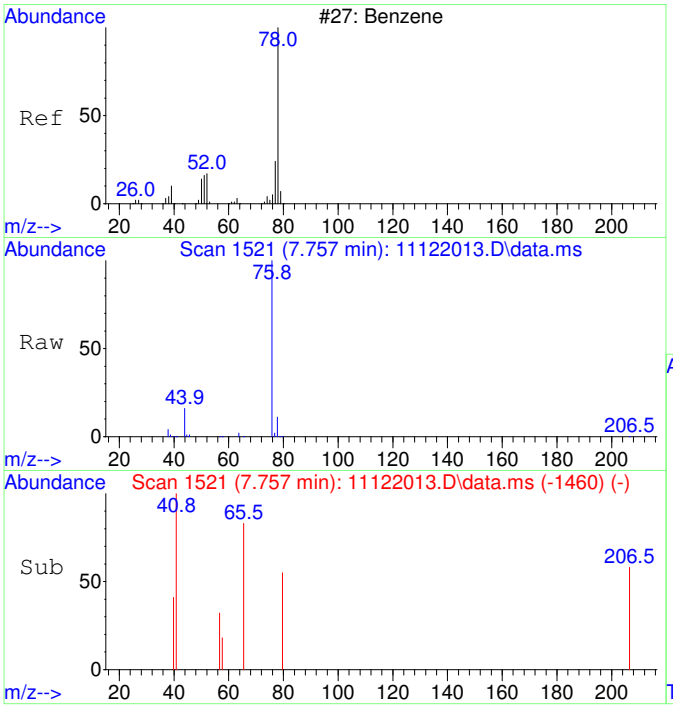


#32
Carbon tetrachloride SCAN
Concen: 54.66 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:117 Resp: 896

Ion	Ratio	Lower	Upper
117	100		
119	107.4	75.5	135.5
121	5.6	0.0	58.8
82	26.3	0.0	59.2

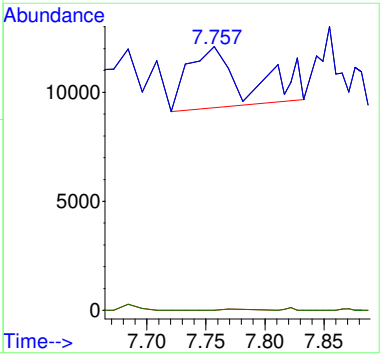


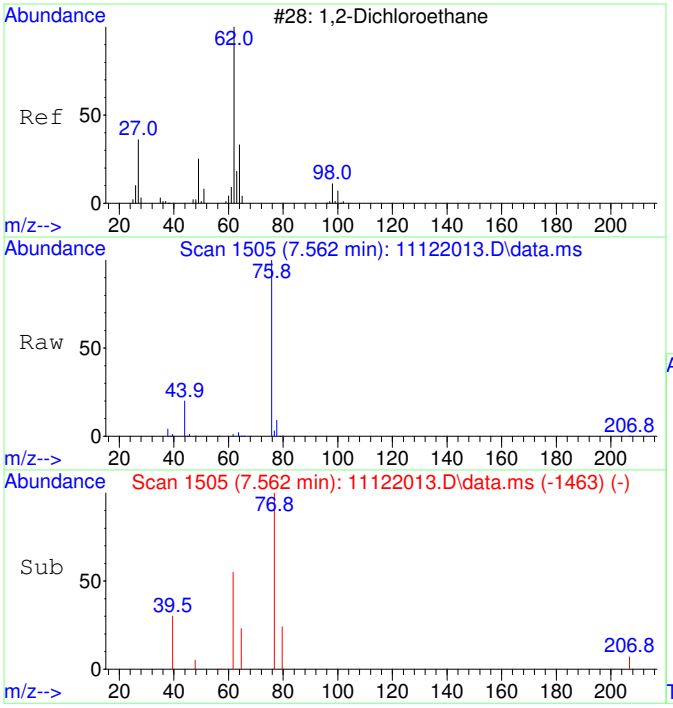


#33
Benzene SCAN
Concen: 225.04 ug/L
RT: 7.757 min Scan# 1521
Delta R.T. 0.243 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 78 Resp: 9737

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

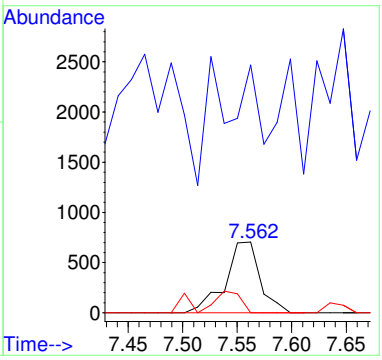


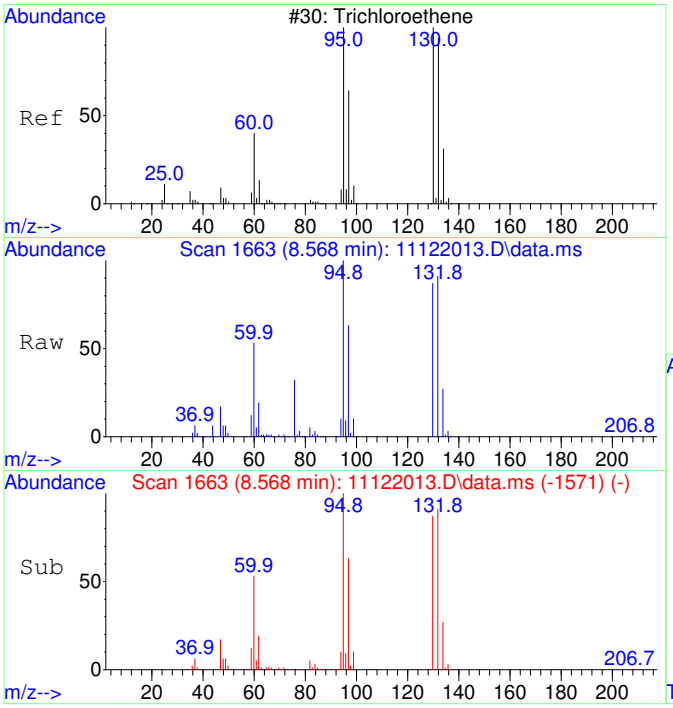


#34
1,2-Dichloroethane SCAN
Concen: 98.27 ug/L
RT: 7.562 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 62 Resp: 1570

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

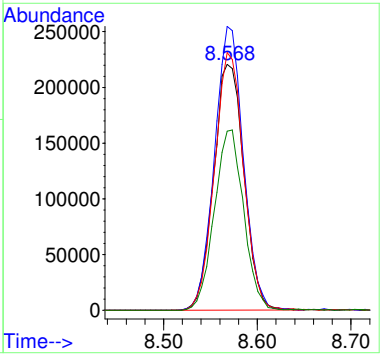


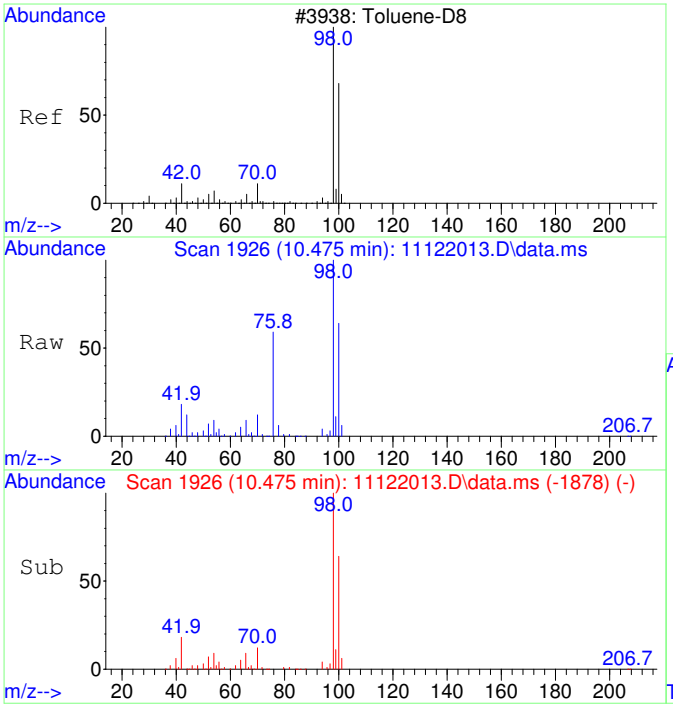


#35
Trichloroethene SCAN
Concen: 41726.50 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:130 Resp: 496133

Ion	Ratio	Lower	Upper
130	100		
95	109.5	60.5	120.5
132	100.4	59.6	119.6
97	70.3	28.2	88.2

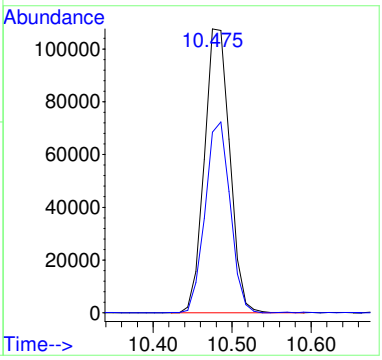


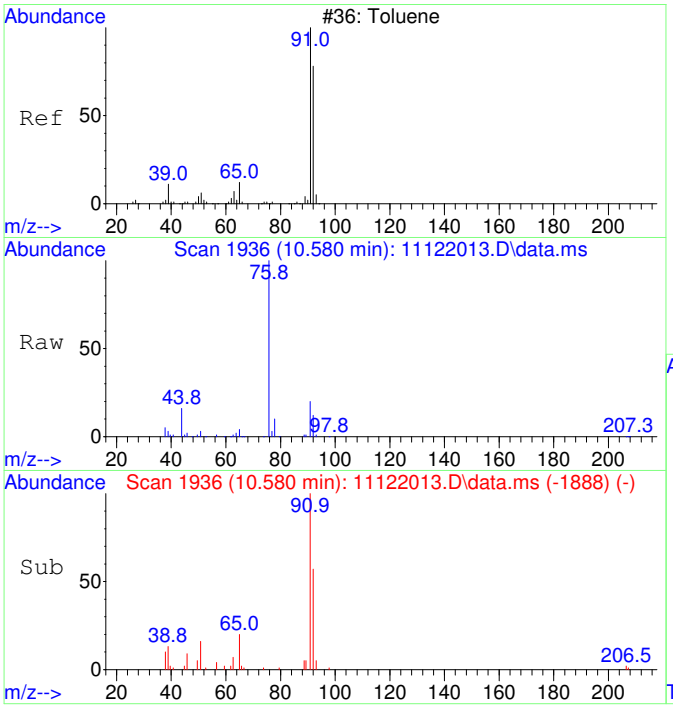


#36
Toluene-d8 SCAN
Concen: 5051.01 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 98 Resp: 241014

Ion	Ratio	Lower	Upper
98	100		
100	66.1	40.0	100.0

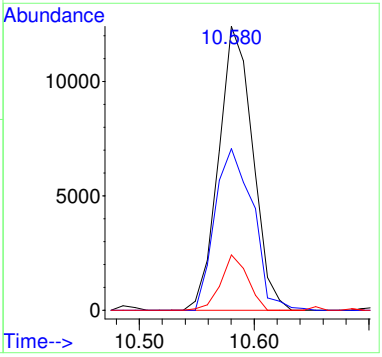


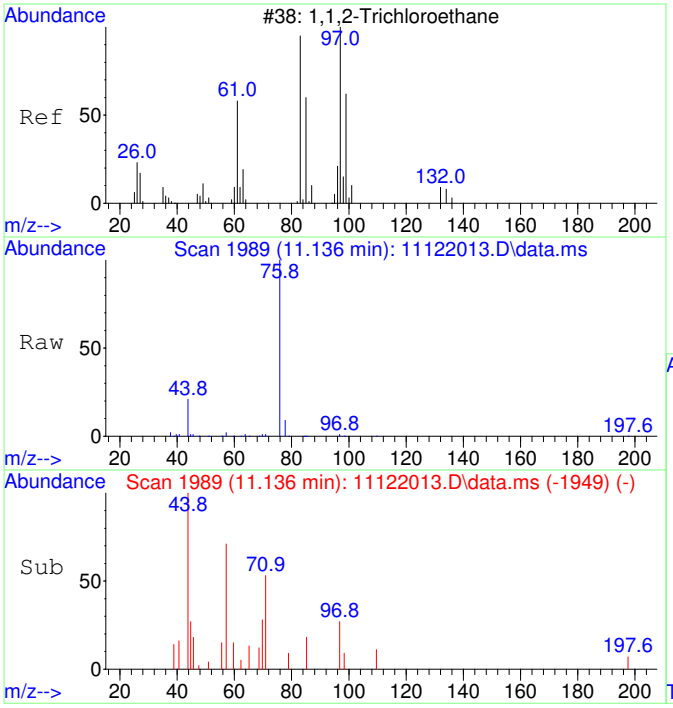


#37
Toluene SCAN
Concen: 419.65 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 25644

Ion	Ratio	Lower	Upper
91	100		
92	63.7	28.3	88.3
65	15.4	0.0	41.0

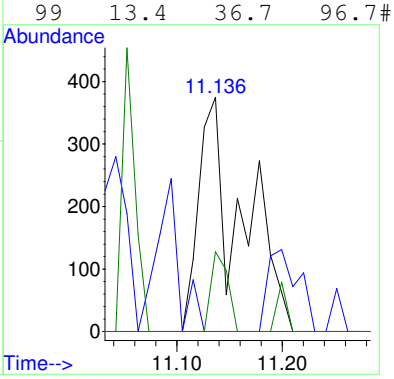


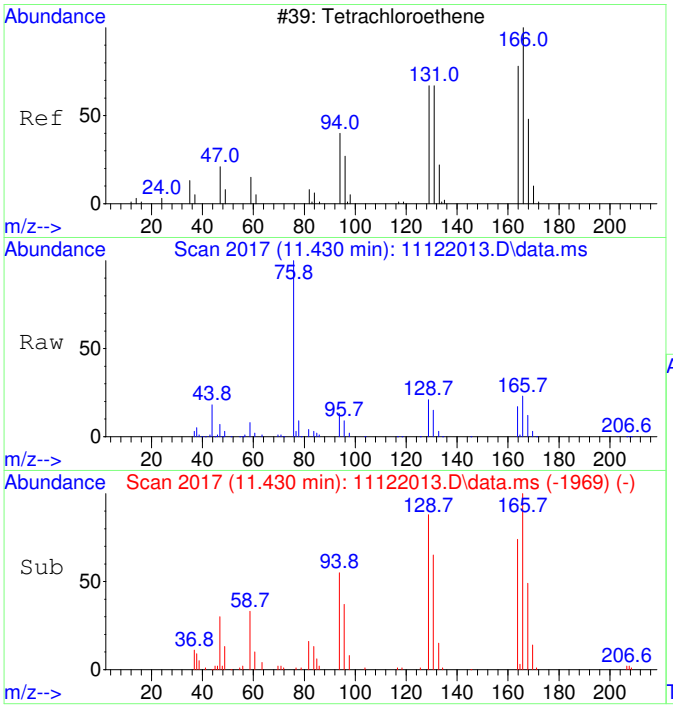


#38
1,1,2-Trichloroethane SCAN
Concen: 77.35 ug/L
RT: 11.136 min Scan# 1989
Delta R.T. -0.084 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 97 Resp: 1061

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	13.4	36.7	96.7#

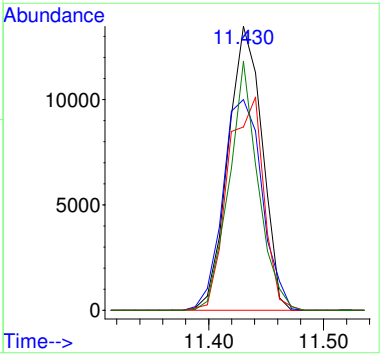


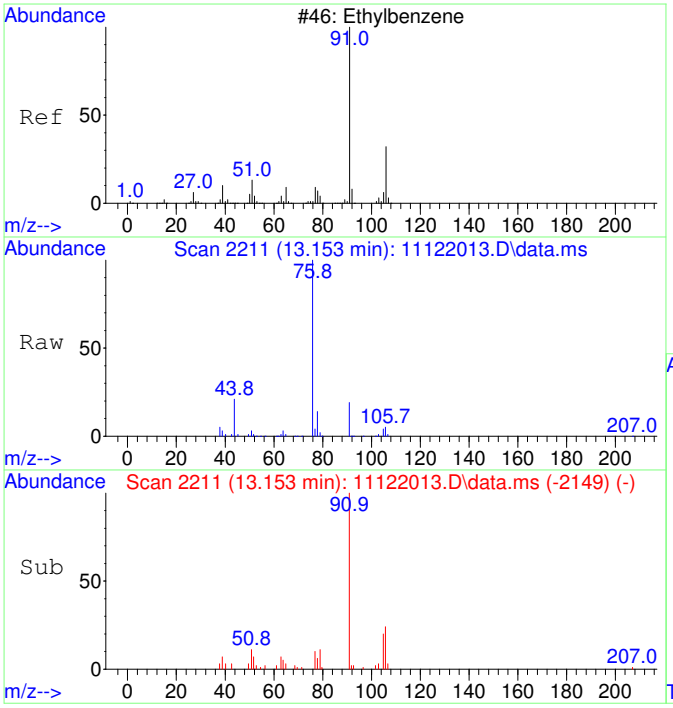


#39
Tetrachloroethene SCAN
Concen: 1900.36 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:166 Resp: 27899

Ion	Ratio	Lower	Upper
166	100		
164	85.5	50.9	110.9
131	78.9	38.7	98.7
129	74.7	41.8	101.8

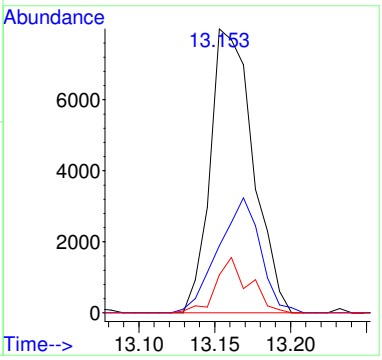


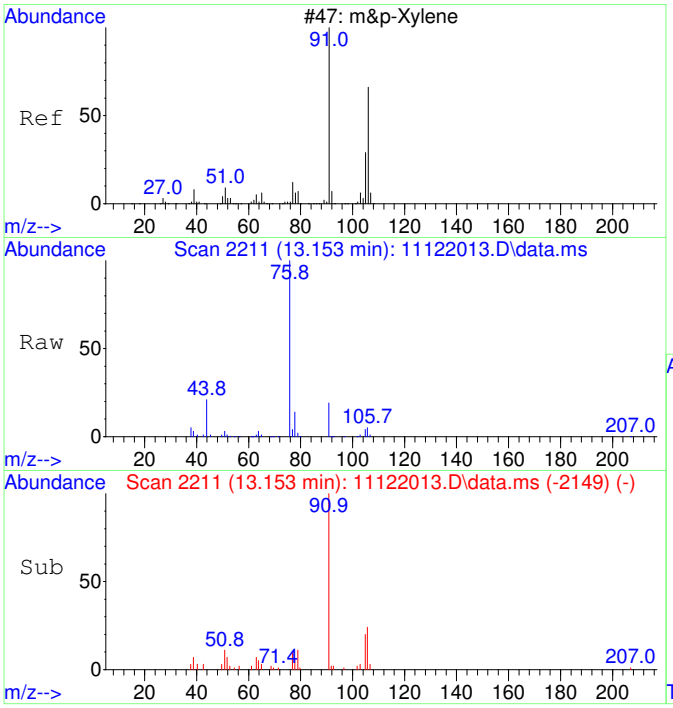


#42
Ethylbenzene SCAN
Concen: 141.15 ug/L
RT: 13.153 min Scan# 2211
Delta R.T. -0.008 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 15714

Ion	Ratio	Lower	Upper
91	100		
106	39.8	23.1	83.1
51	15.0	0.0	40.1

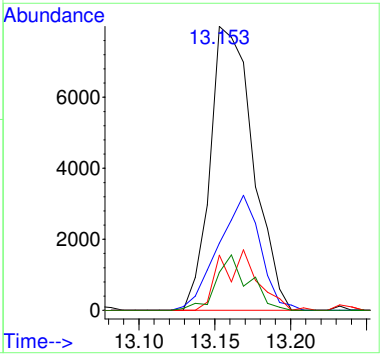


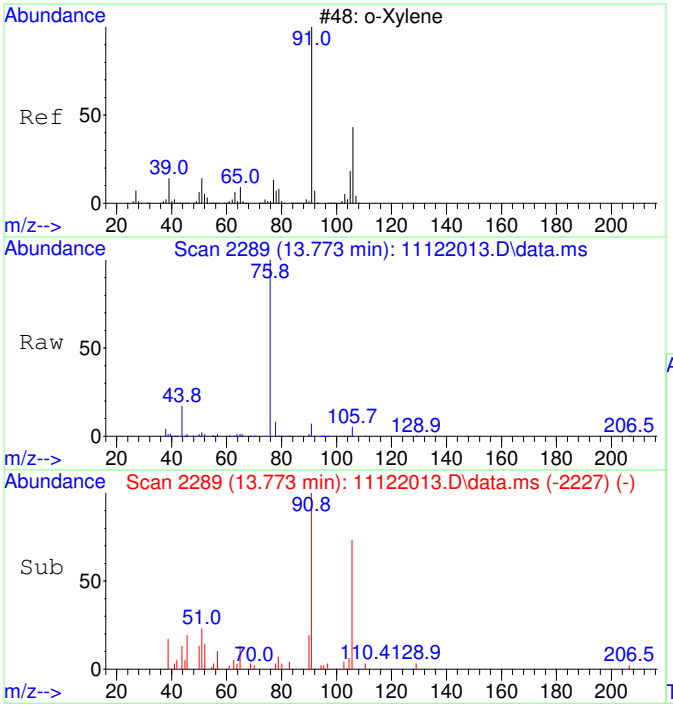


#43
m&p-Xylene SCAN
Concen: 141.15 ug/L
RT: 13.153 min Scan# 2211
Delta R.T. -0.008 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 15714

Ion	Ratio	Lower	Upper
91	100		
106	39.8	23.1	83.1
105	18.4	0.0	54.7
51	15.0	0.0	40.1

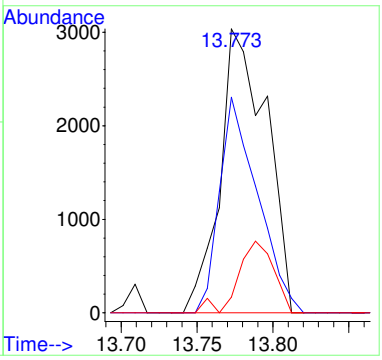


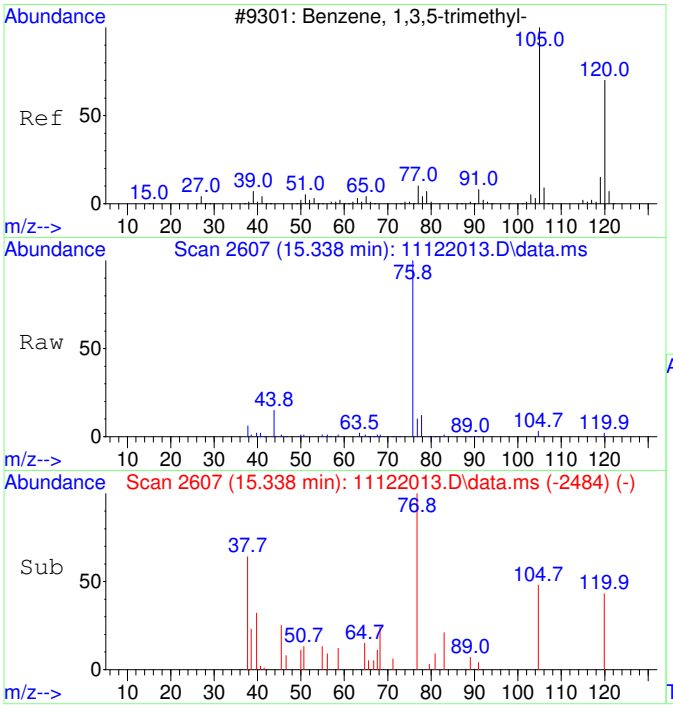


#44
o-Xylene SCAN
Concen: 108.39 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.008 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 6459

Ion	Ratio	Lower	Upper
91	100		
106	62.5	18.0	78.0
105	19.3	0.0	56.6

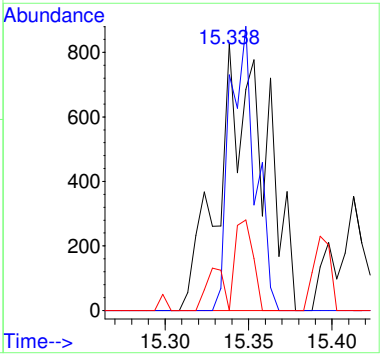


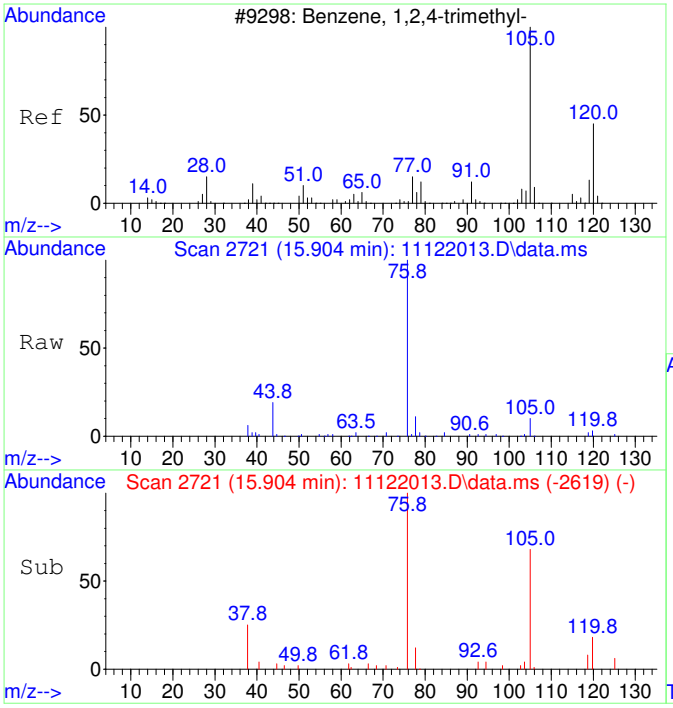


#46
1,3,5-Trimethylbenzene SCAN
Concen: 25.81 ug/L
RT: 15.338 min Scan# 2607
Delta R.T. -0.005 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:105 Resp: 1621

Ion	Ratio	Lower	Upper
105	100		
120	58.2	18.3	78.3
119	18.9	0.0	43.1

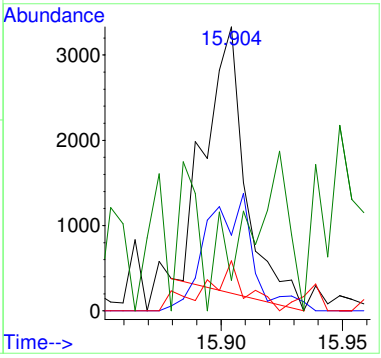




#47
1,2,4-Trimethylbenzene SCAN
Concen: 54.09 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:105 Resp: 3476

Ion	Ratio	Lower	Upper
105	100		
120	52.5	16.9	76.9
119	19.4	0.0	41.9
77	63.4	0.0	42.3#



Quantitation Report (QT Reviewed)

Table of Contents

M.I. Performed By:
TD at 1:53 pm, Nov 12, 2020

M.I. Approved By:
ZR at 2:21 pm, Nov 23, 2020

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122013.D
Acq On : 12 Nov 2020 13:12
InstName : AG5975C
Operator : TD
Sample : 2011015-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 12 13:31:22 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

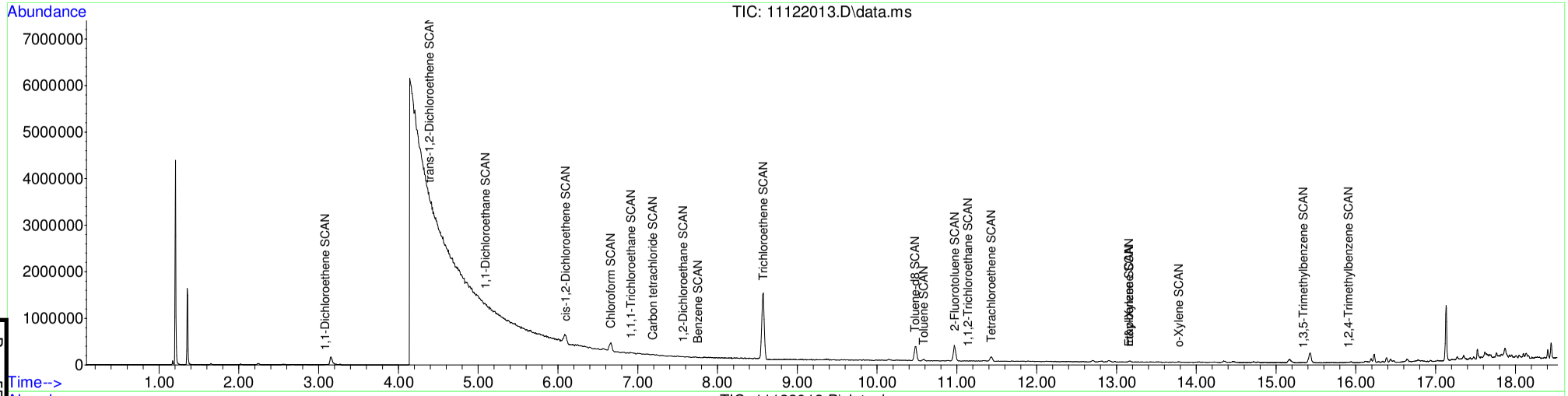
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	500514	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	429157	4380.00 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.60%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.093	61	10073m	503.99 ug/L	
3] trans-1,2-Dichloroethene	4.382	61	15083	653.18 ug/L	99
4] 1,1-Dichloroethane	5.085	63	10539	366.64 ug/L	94
5] cis-1,2-Dichloroethene	6.087	61	273599	9017.20 ug/L	99
6] Chloroform	6.651	83	307371	9897.28 ug/L	100
7] 1,1,1-Trichloroethane	6.919	97	8936	264.95 ug/L	98
8] Carbon tetrachloride	7.187	117	2203	69.40 ug/L	99
9] Benzene	7.503	78	11904	139.98 ug/L	59
10] 1,2-Dichloroethane	7.551	62	1717	56.56 ug/L #	1
11] Trichloroethene	8.569	130	980355	38288.44 ug/L OC	93
13] Toluene	10.581	91	49486	396.15 ug/L	98
14] 1,1,2-Trichloroethane	11.159	97	696	25.57 ug/L #	9
15] Tetrachloroethene	11.432	166	59302	1640.41 ug/L	100
16] Chlorobenzene	12.765	112	1847	20.65 ug/L	64
18] Ethylbenzene	12.972	91	10611	69.79 ug/L	95
19] m&p-Xylene	13.162	91	27640	232.59 ug/L	95
20] o-Xylene	13.782	91	12432	97.92 ug/L	95
22] 1,3,5-Trimethylbenzene	15.345	105	3402	25.17 ug/L	91
23] 1,2,4-Trimethylbenzene	15.901	105	9433	67.20 ug/L	88
25) 2-Fluorotoluene SCAN	10.968	109	266350	5459.01 ug/L	97
26) 1,1-Dichloroethene SCAN	3.077	61	1074	103.65 ug/L	78
27) trans-1,2-Dichloroethe...	4.388	61	8452	659.18 ug/L	85
28) 1,1-Dichloroethane SCAN	5.084	63	3431	231.22 ug/L #	74
29) cis-1,2-Dichloroethene...	6.093	61	163104	10259.08 ug/L #	81
30) Chloroform SCAN	6.662	83	169899	9852.57 ug/L	95
31) 1,1,1-Trichloroethane ...	6.918	97	5237	333.26 ug/L	85
32) Carbon tetrachloride SCAN	7.185	117	896	54.66 ug/L	90
33) Benzene SCAN	7.757	78	9737	225.04 ug/L	91
34) 1,2-Dichloroethane SCAN	7.562	62	1570	98.27 ug/L #	40
35) Trichloroethene SCAN	8.568	130	496133	41726.50 ug/L	84
36) Toluene-d8 SCAN	10.475	98	241014	5051.01 ug/L	95
37) Toluene SCAN	10.580	91	25644	419.65 ug/L	92
38) 1,1,2-Trichloroethane ...	11.136	97	1061	77.35 ug/L #	18
39) Tetrachloroethene SCAN	11.430	166	27899	1900.36 ug/L	93
42) Ethylbenzene SCAN	13.153	91	15714	141.15 ug/L	82
43) m&p-Xylene SCAN	13.153	91	15714	141.15 ug/L	84
44) o-Xylene SCAN	13.773	91	6459	108.39 ug/L	81
46) 1,3,5-Trimethylbenzene...	15.338	105	1621	25.81 ug/L	85
47) 1,2,4-Trimethylbenzene...	15.904	105	3476	54.09 ug/L #	69

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122013.D
Acq On : 12 Nov 2020 13:12
InstName : AG5975C
Operator : TD
Sample : 2011015-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 12 13:31:22 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



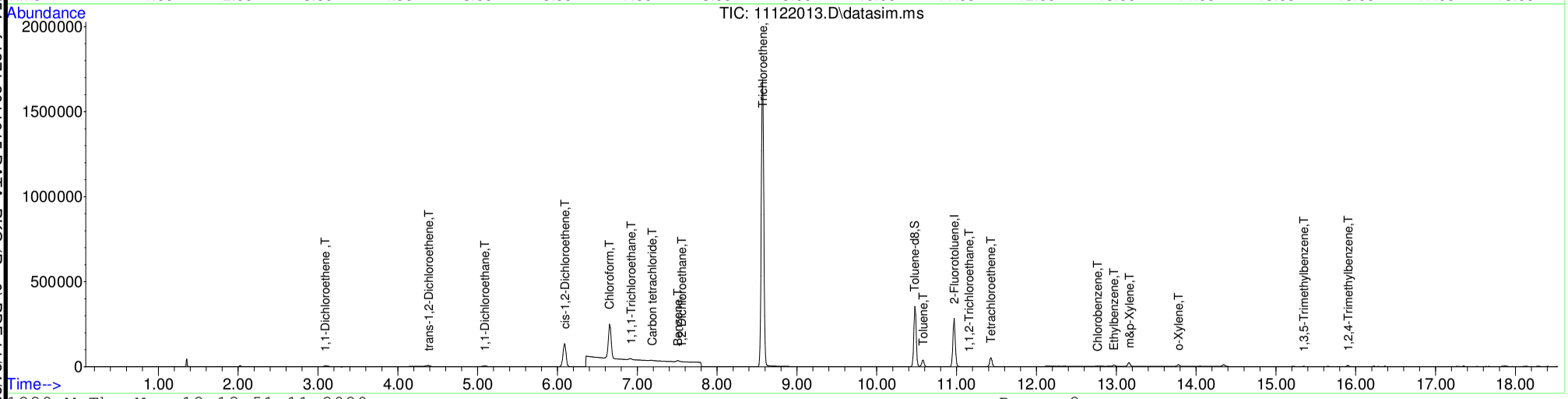
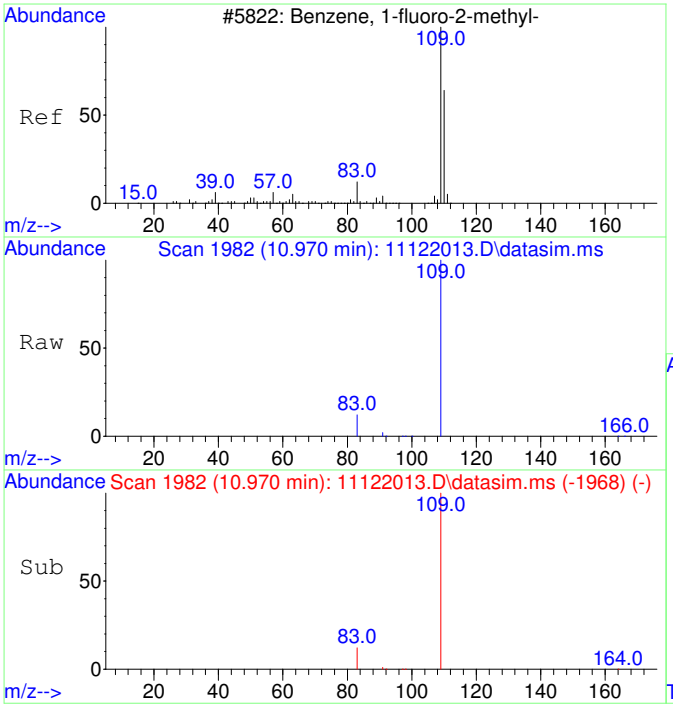


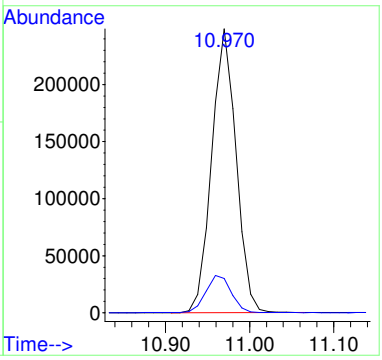
Table of Contents

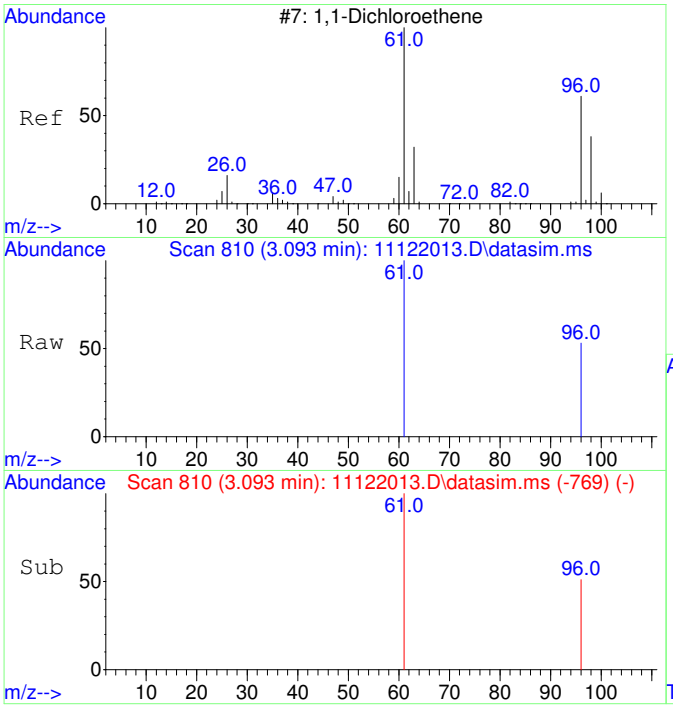


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:109 Resp: 500514

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

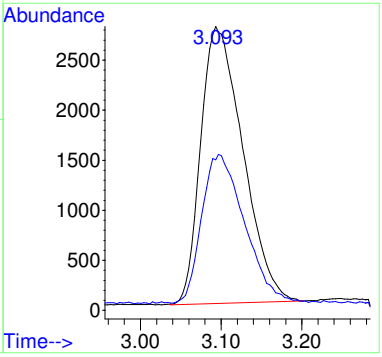


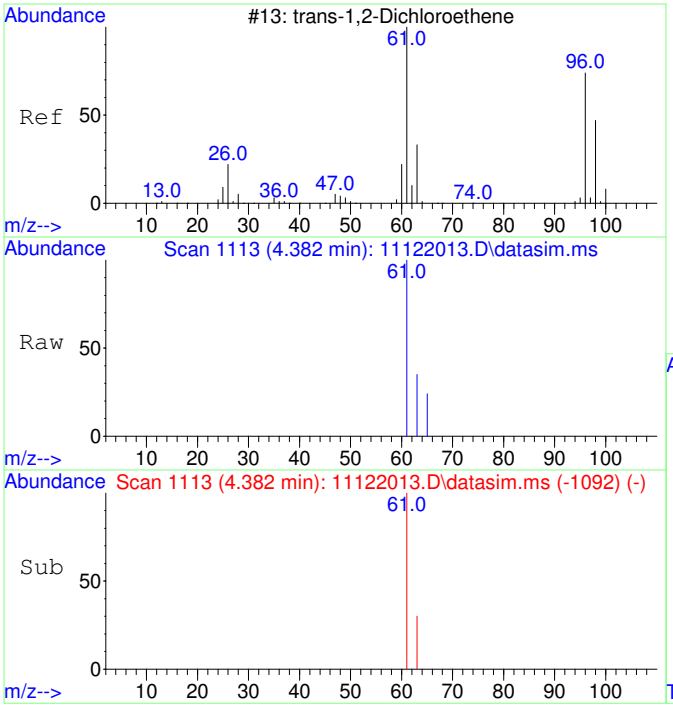


#2
1,1-Dichloroethene
Concen: 503.99 ug/L m
RT: 3.093 min Scan# 810
Delta R.T. 0.003 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 61 Resp: 10073

Ion	Ratio	Lower	Upper
61	100		
96	54.1	37.2	97.2

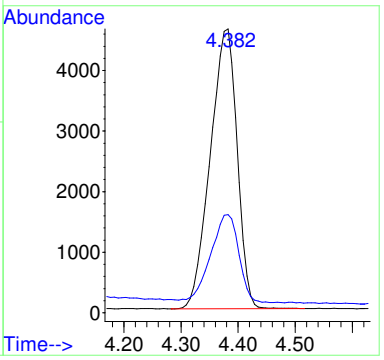


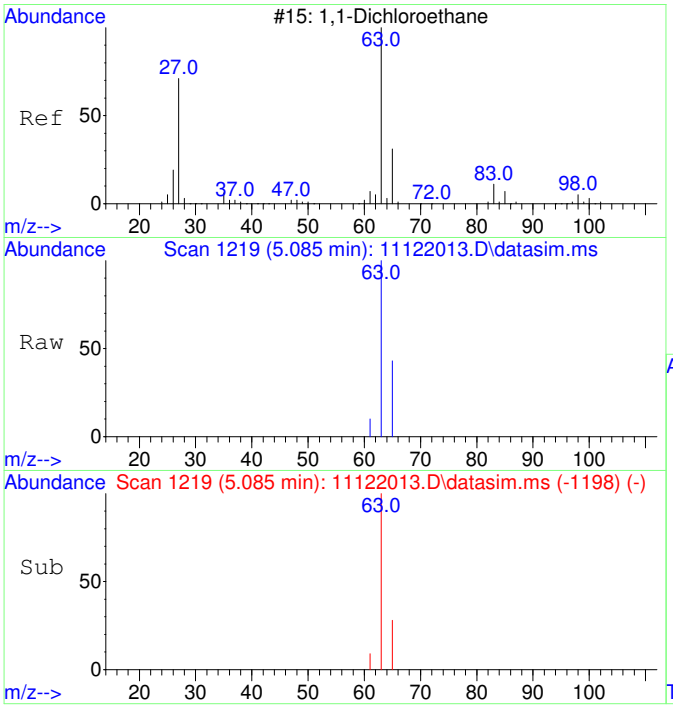


#3
trans-1,2-Dichloroethene
Concen: 653.18 ug/L
RT: 4.382 min Scan# 1113
Delta R.T. -0.013 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 61 Resp: 15083

Ion	Ratio	Lower	Upper
61	100		
63	33.0	2.4	62.4

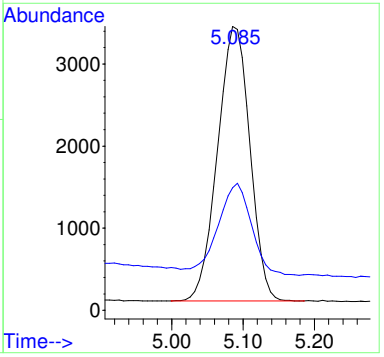


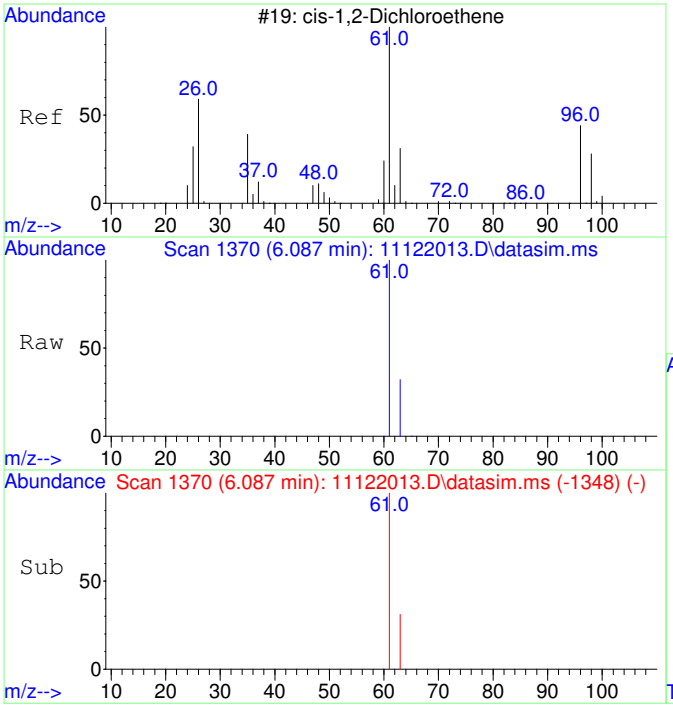


#4
1,1-Dichloroethane
Concen: 366.64 ug/L
RT: 5.085 min Scan# 1219
Delta R.T. -0.013 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 63 Resp: 10539

Ion	Ratio	Lower	Upper
63	100		
65	35.2	1.8	61.8

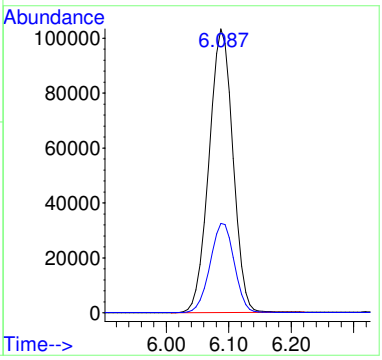


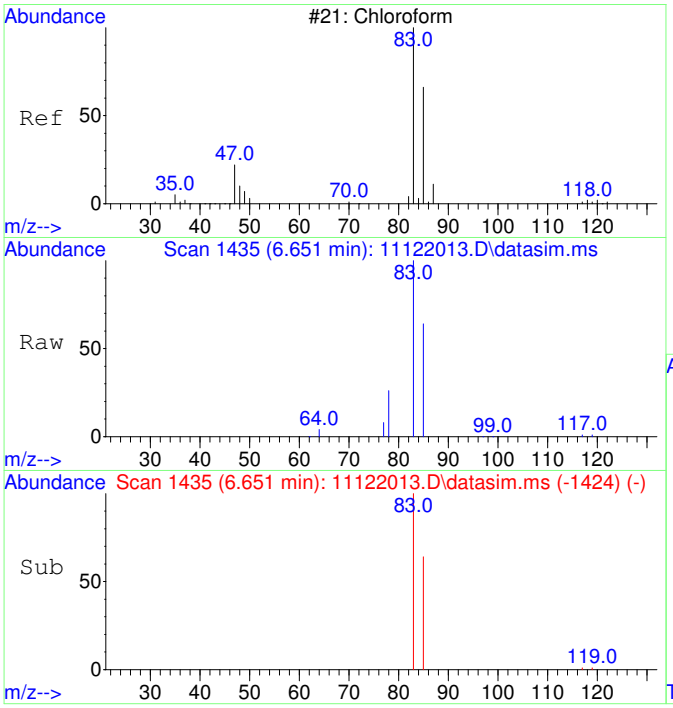


#5
cis-1,2-Dichloroethene
Concen: 9017.20 ug/L
RT: 6.087 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 61 Resp: 273599

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

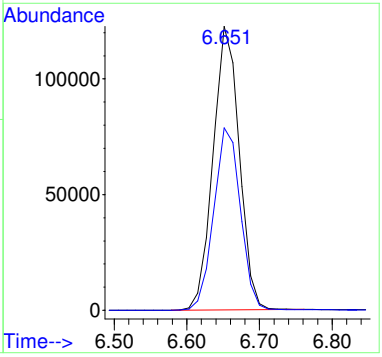


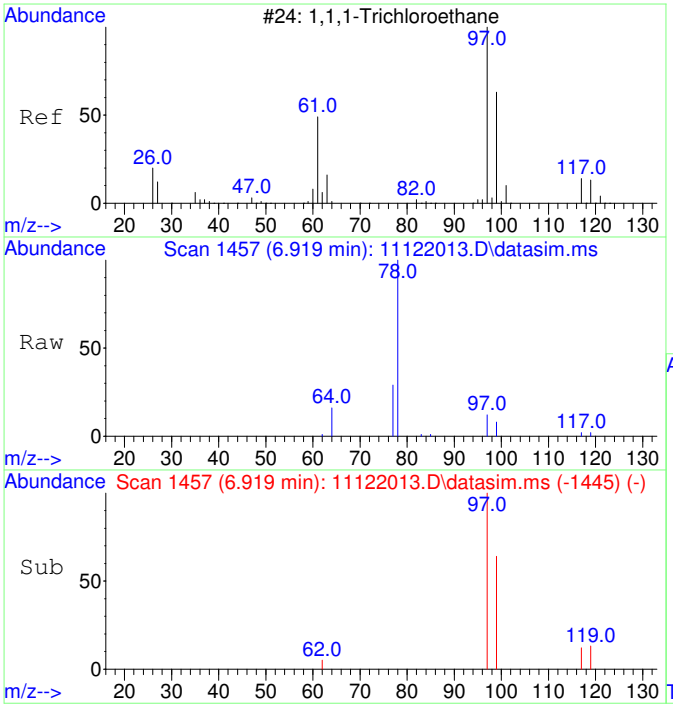


#6
Chloroform
Concen: 9897.28 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 83 Resp: 307371

Ion	Ratio	Lower	Upper
83	100		
85	65.1	35.1	95.1

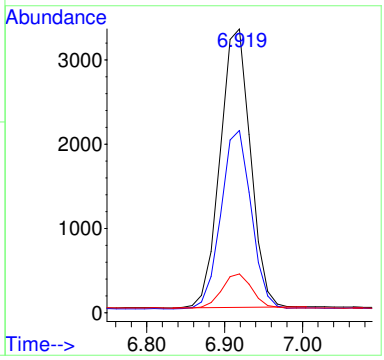


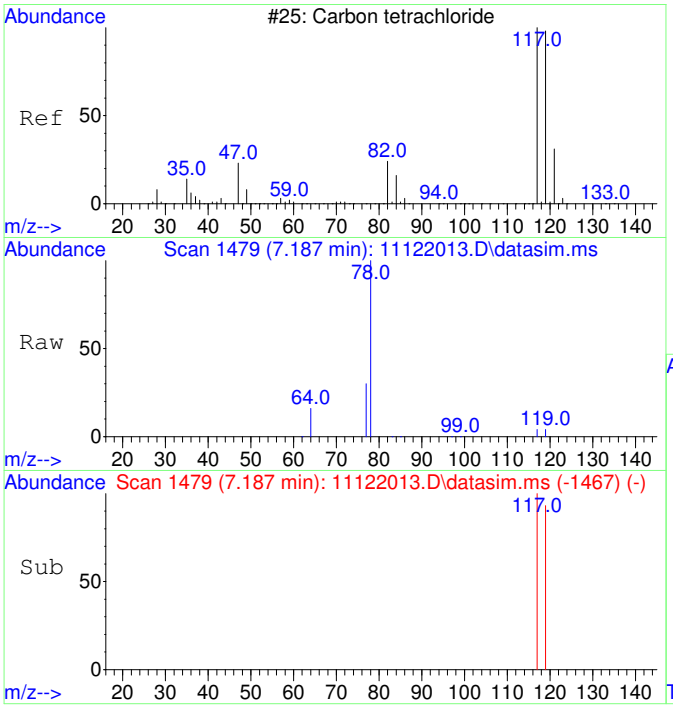


#7
1,1,1-Trichloroethane
Concen: 264.95 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 97 Resp: 8936

Ion	Ratio	Lower	Upper
97	100		
99	63.5	34.6	94.6
117	12.3	0.0	43.2

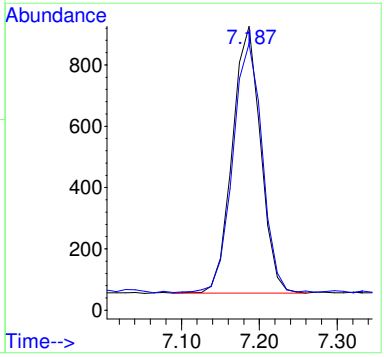


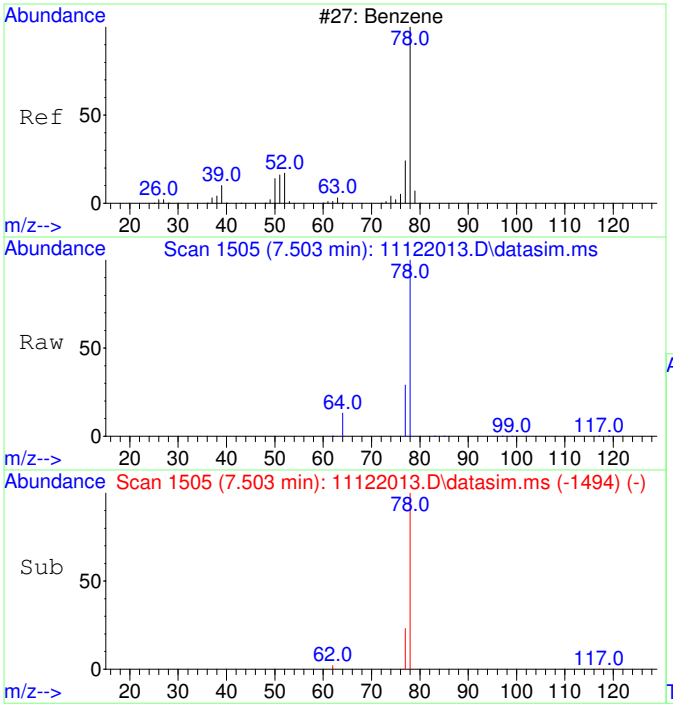


#8
Carbon tetrachloride
Concen: 69.40 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:117 Resp: 2203

Ion	Ratio	Lower	Upper
117	100		
119	97.0	66.4	126.4

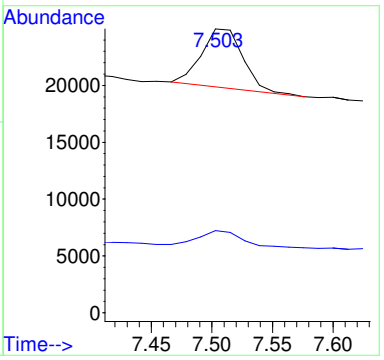


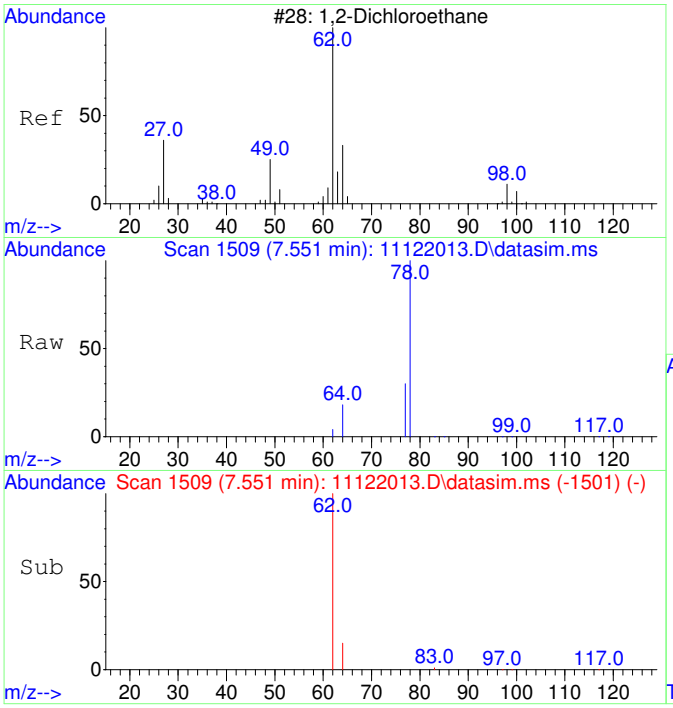


#9
Benzene
Concen: 139.98 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 78 Resp: 11904

Ion	Ratio	Lower	Upper
78	100		
77	43.3	0.0	53.2

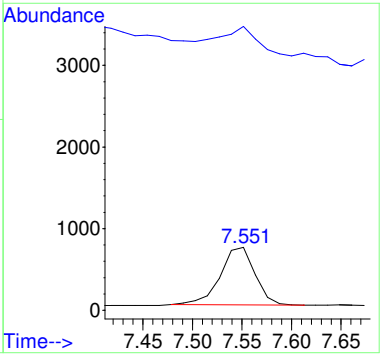


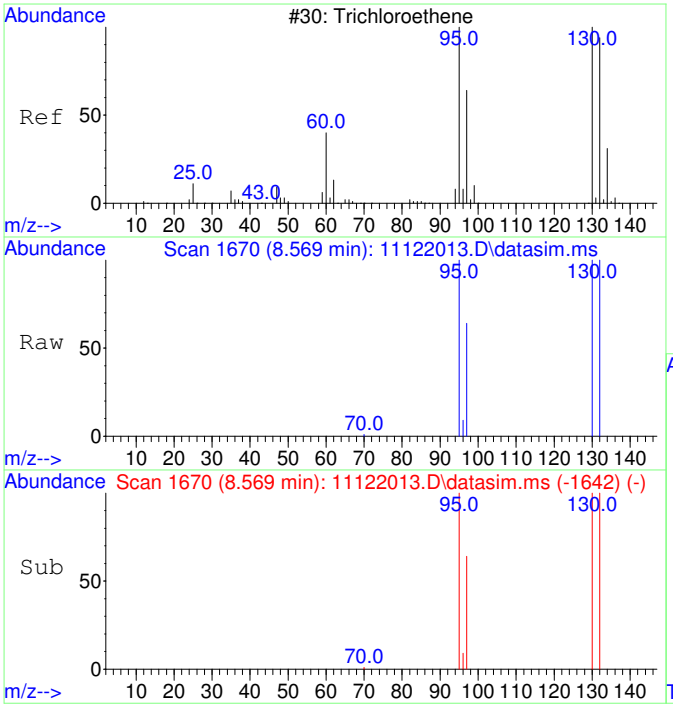


#10
1,2-Dichloroethane
Concen: 56.56 ug/L
RT: 7.551 min Scan# 1509
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 62 Resp: 1717

Ion	Ratio	Lower	Upper
62	100		
64	107.5	2.3	62.3#

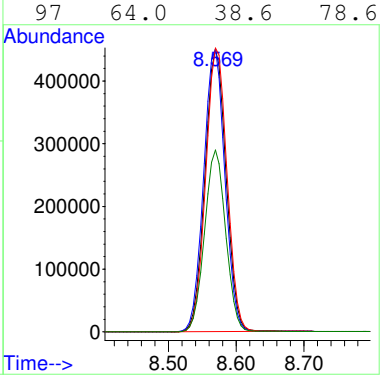


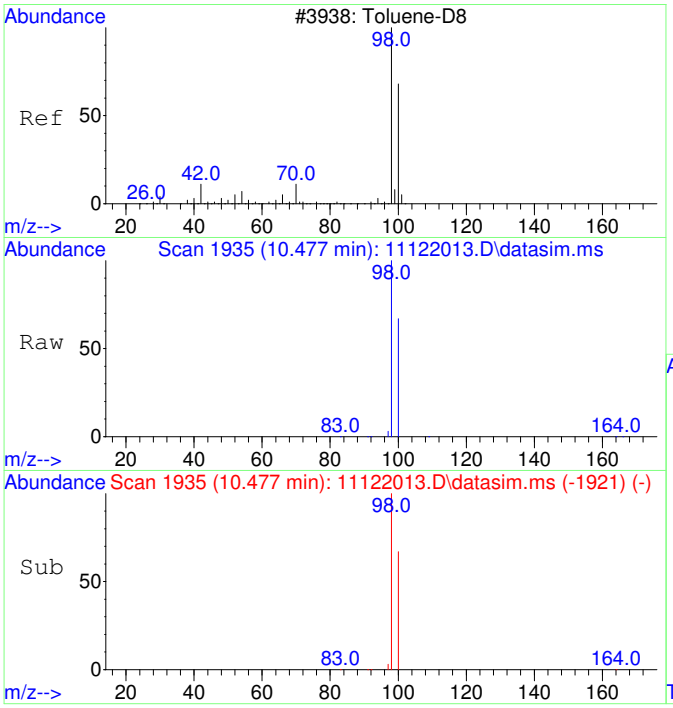


#11
Trichloroethene
Concen: 38288.44 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:130 Resp: 980355

Ion	Ratio	Lower	Upper
130	100		
95	100.2	60.7	120.7
132	100.8	76.0	116.0
97	64.0	38.6	78.6

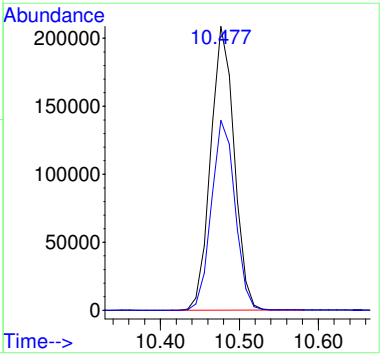


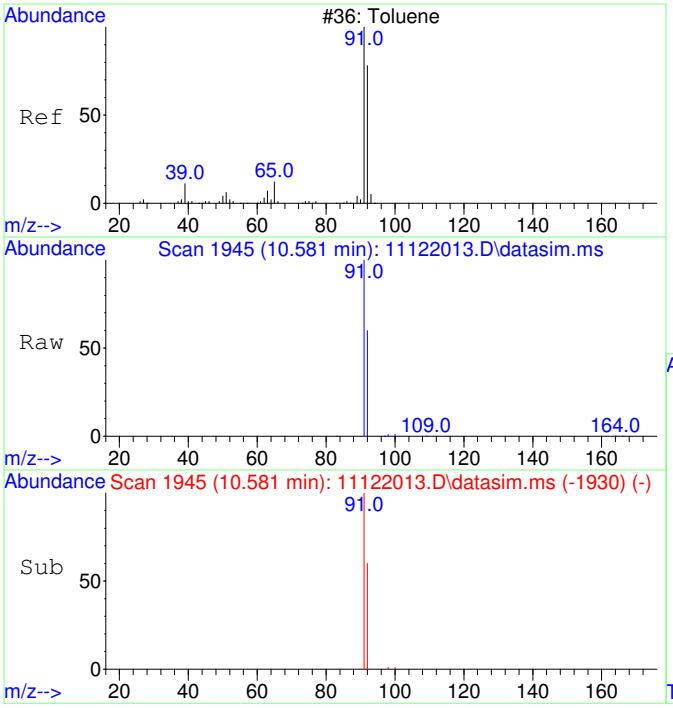


#12
Toluene-d8
Concen: 4380.00 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 98 Resp: 429157

Ion	Ratio	Lower	Upper
98	100		
100	67.2	37.1	97.1

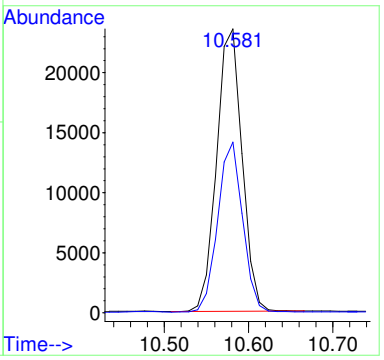


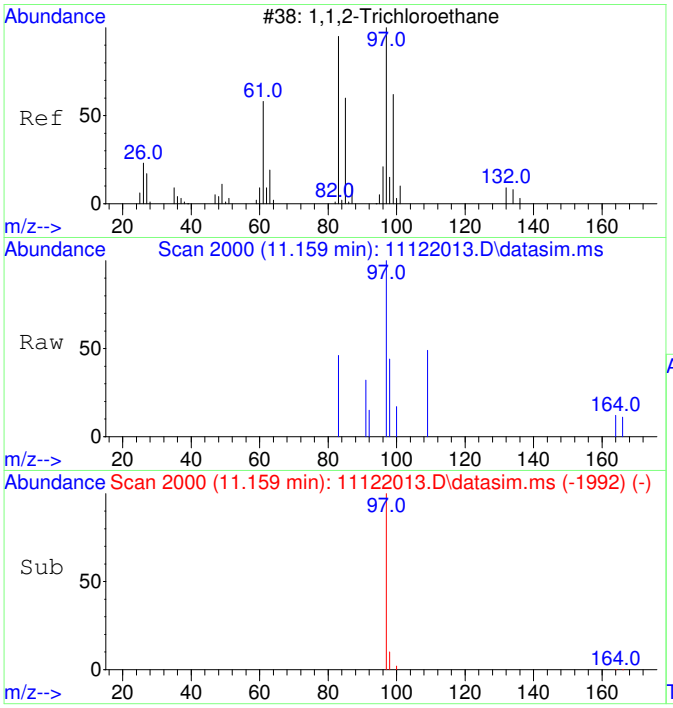


#13
Toluene
Concen: 396.15 ug/L
RT: 10.581 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 49486

Ion	Ratio	Lower	Upper
91	100		
92	58.7	29.9	89.9

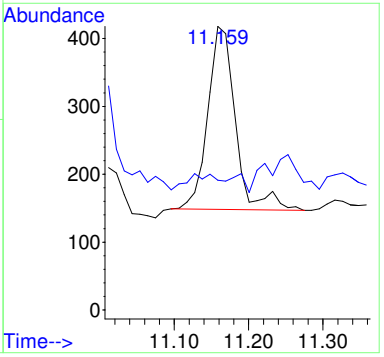


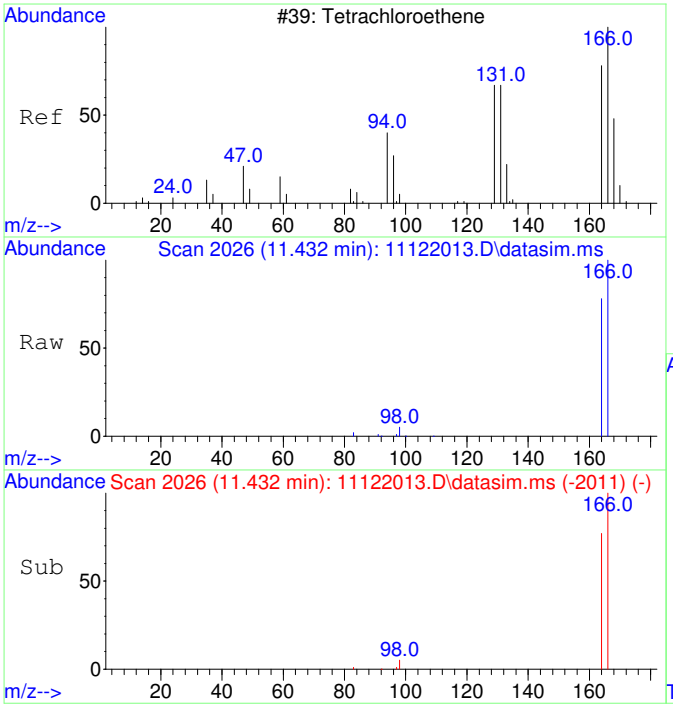


#14
1,1,2-Trichloroethane
Concen: 25.57 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 97 Resp: 696

Ion	Ratio	Lower	Upper
97	100		
83	0.0	51.2	111.2#

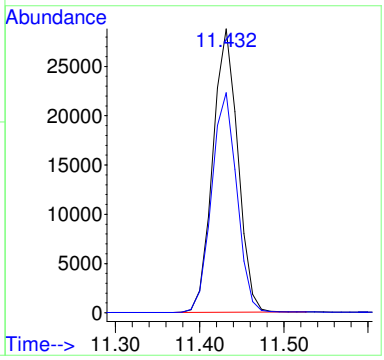


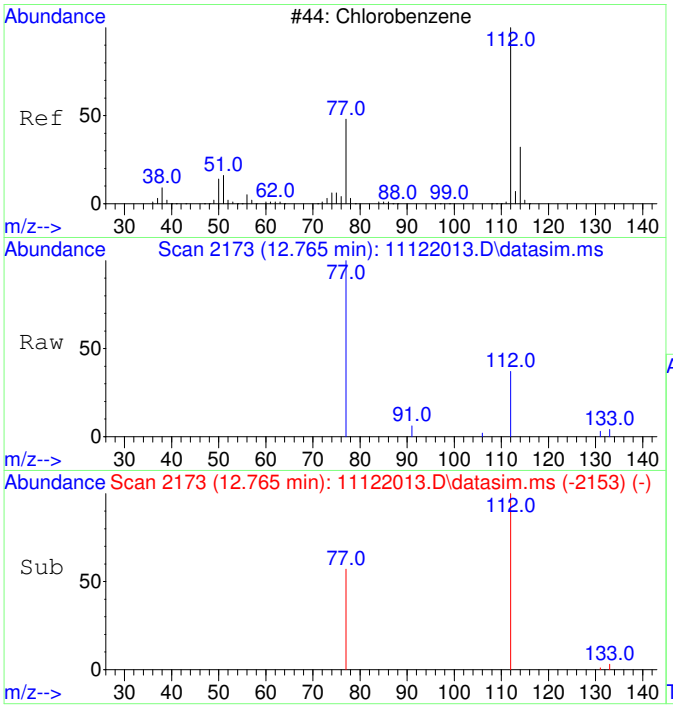


#15
Tetrachloroethene
Concen: 1640.41 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:166 Resp: 59302

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

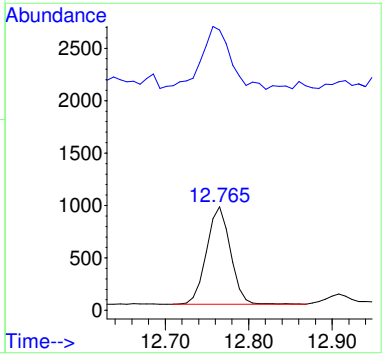


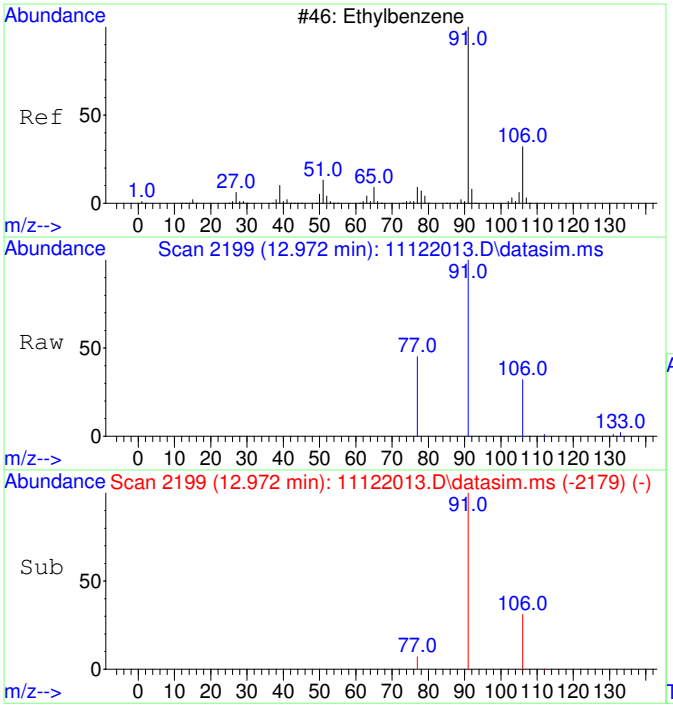


#16
Chlorobenzene
Concen: 20.65 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:112 Resp: 1847

Ion	Ratio	Lower	Upper
112	100		
77	79.5	23.6	83.6

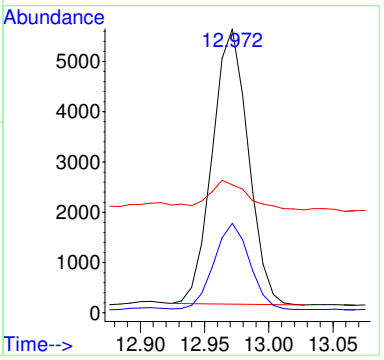


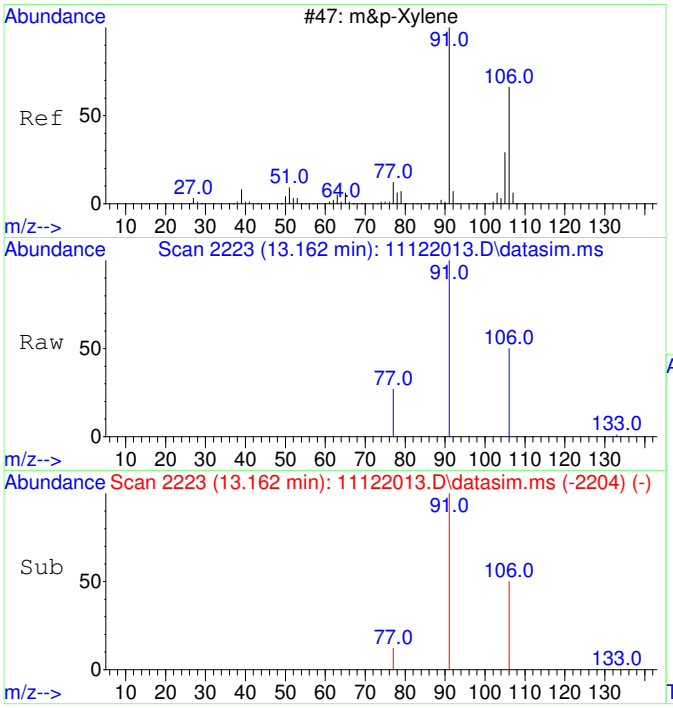


#18
Ethylbenzene
Concen: 69.79 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 10611

Ion	Ratio	Lower	Upper
91	100		
106	30.8	3.0	63.0
77	11.4	0.0	38.2

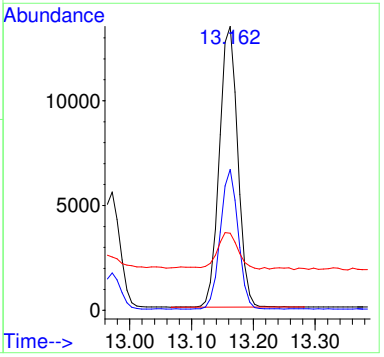


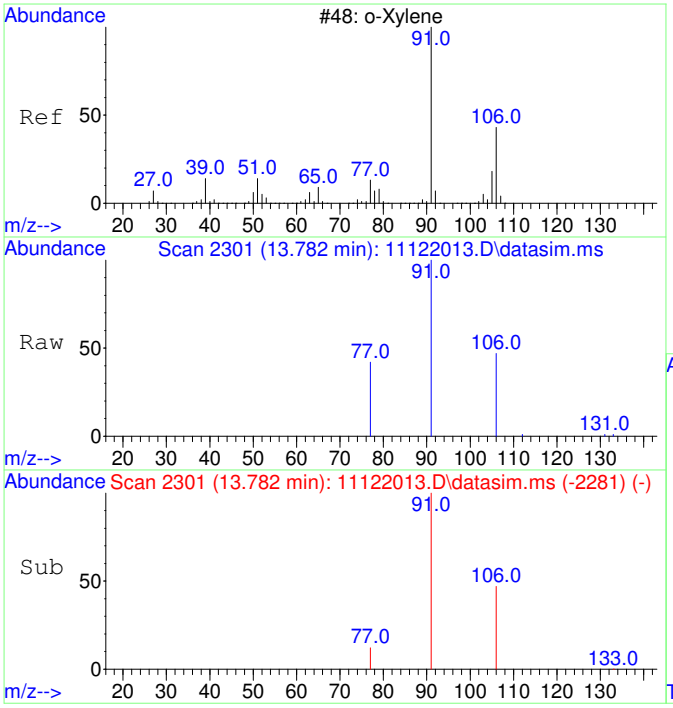


#19
m&p-Xylene
Concen: 232.59 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 27640

Ion	Ratio	Lower	Upper
91	100		
106	48.4	22.2	82.2
77	14.5	0.0	42.4

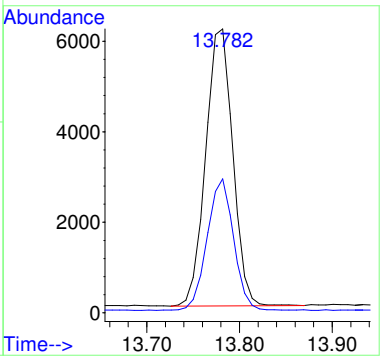


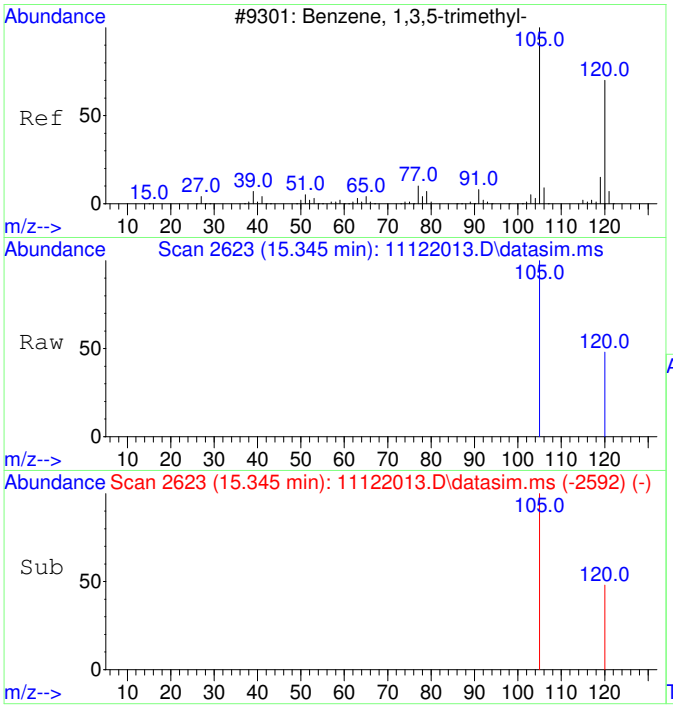


#20
o-Xylene
Concen: 97.92 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 12432

Ion	Ratio	Lower	Upper
91	100		
106	46.1	19.2	79.2

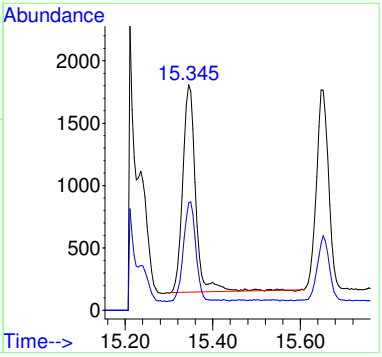


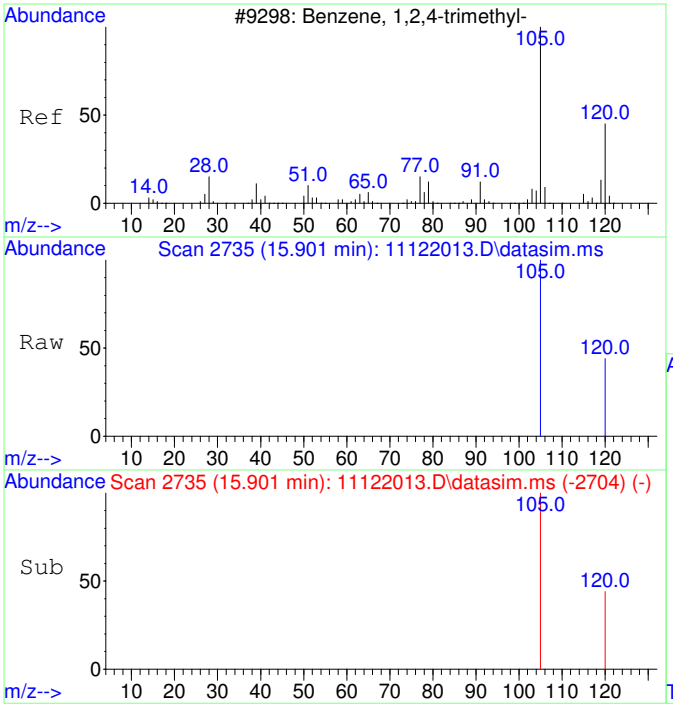


#22
1,3,5-Trimethylbenzene
Concen: 25.17 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:105 Resp: 3402

Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.1	81.1

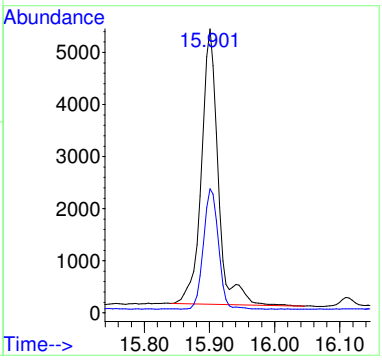


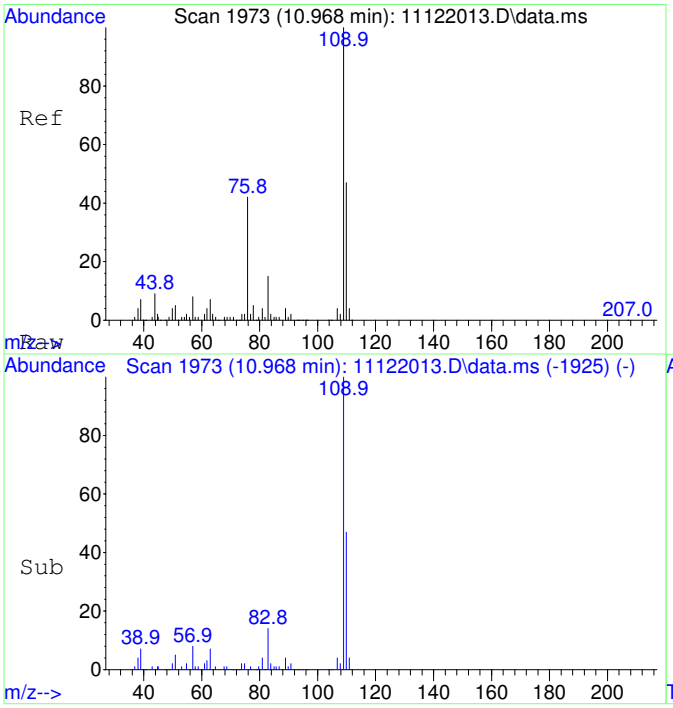


#23
1,2,4-Trimethylbenzene
Concen: 67.20 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:105 Resp: 9433

Ion	Ratio	Lower	Upper
105	100		
120	39.1	17.2	77.2

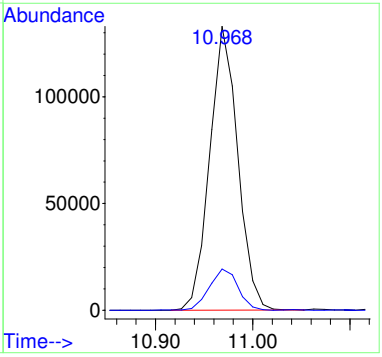


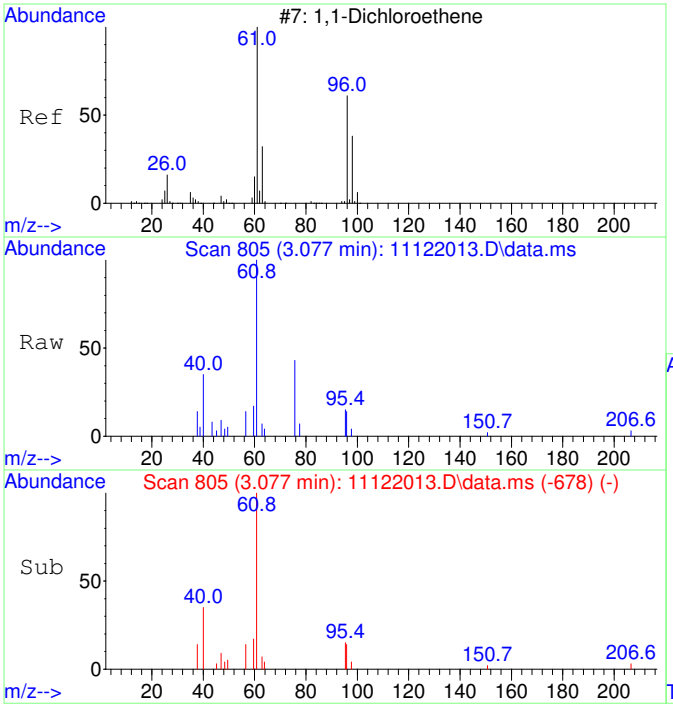


#25
2-Fluorotoluene SCAN
Concen: 5459.01 ug/L
RT: 10.968 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:109 Resp: 266350

Ion	Ratio	Lower	Upper
109	100		
83	15.0	0.0	43.8

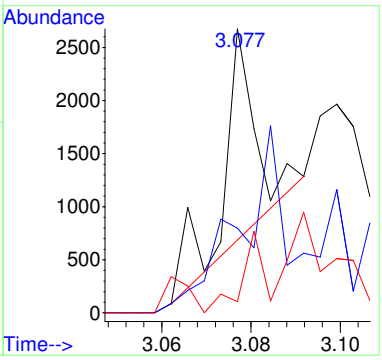


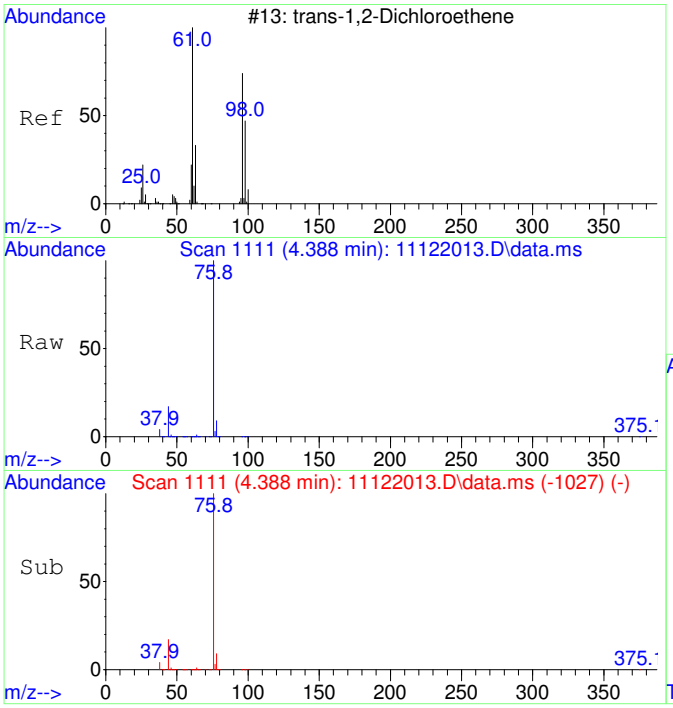


#26
1,1-Dichloroethene SCAN
Concen: 103.65 ug/L
RT: 3.077 min Scan# 805
Delta R.T. -0.030 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 61 Resp: 1074

Ion	Ratio	Lower	Upper
61	100		
96	74.0	33.1	93.1
98	19.5	11.2	71.2

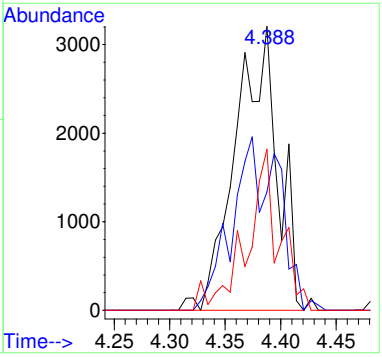


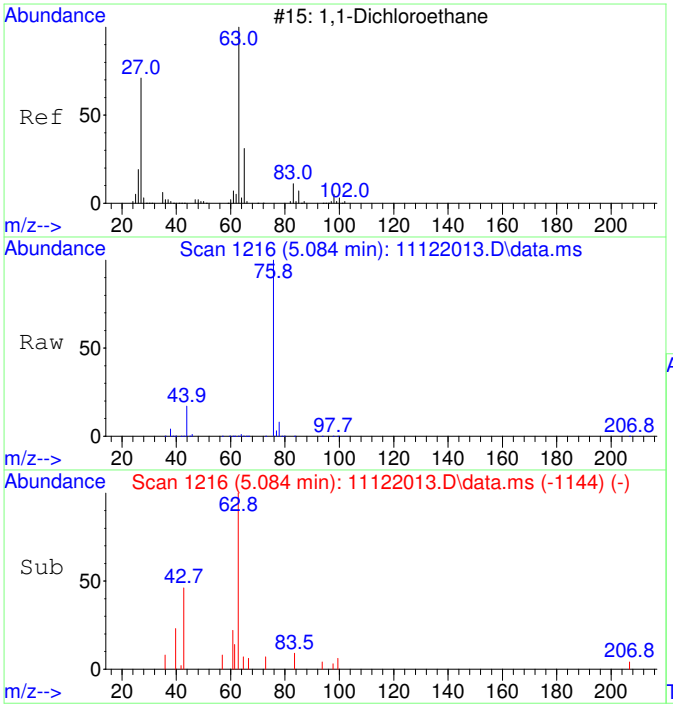


#27
trans-1,2-Dichloroethene SCAN
Concen: 659.18 ug/L
RT: 4.388 min Scan# 1111
Delta R.T. -0.013 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 61 Resp: 8452

Ion	Ratio	Lower	Upper
61	100		
96	67.3	49.0	109.0
98	39.0	20.5	80.5

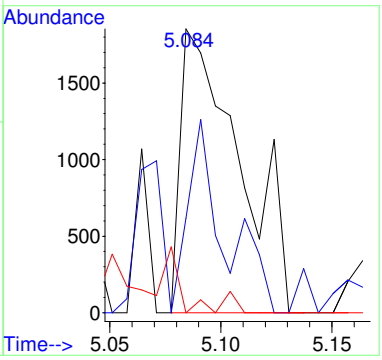


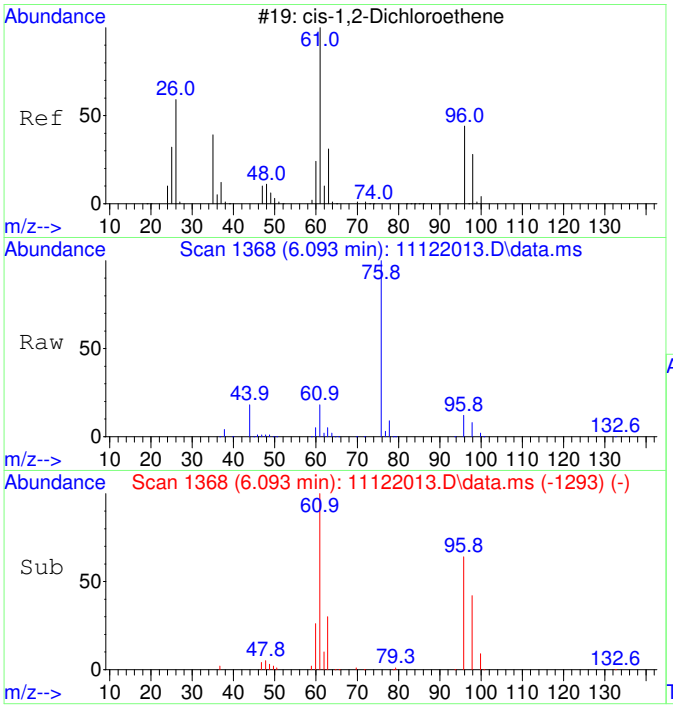


#28
1,1-Dichloroethane SCAN
Concen: 231.22 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. -0.020 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 63 Resp: 3431

Ion	Ratio	Lower	Upper
63	100		
65	42.2	1.3	61.3
83	0.0	0.0	45.9

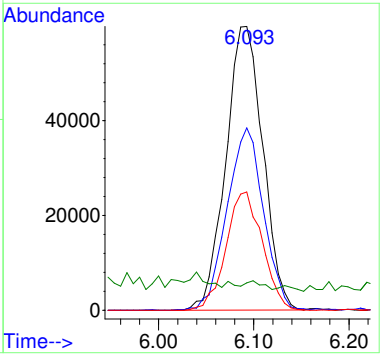


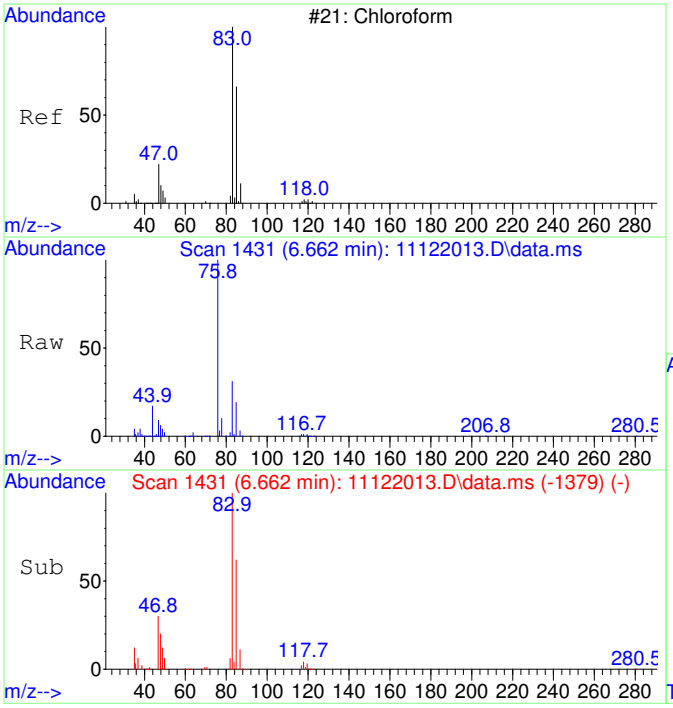


#29
cis-1,2-Dichloroethene SCAN
Concen: 10259.08 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 61 Resp: 163104

Ion	Ratio	Lower	Upper
61	100		
96	63.2	39.9	99.9
98	40.9	13.5	73.5
64	0.8	4.5	64.5#

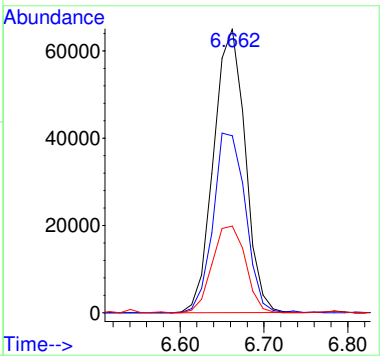


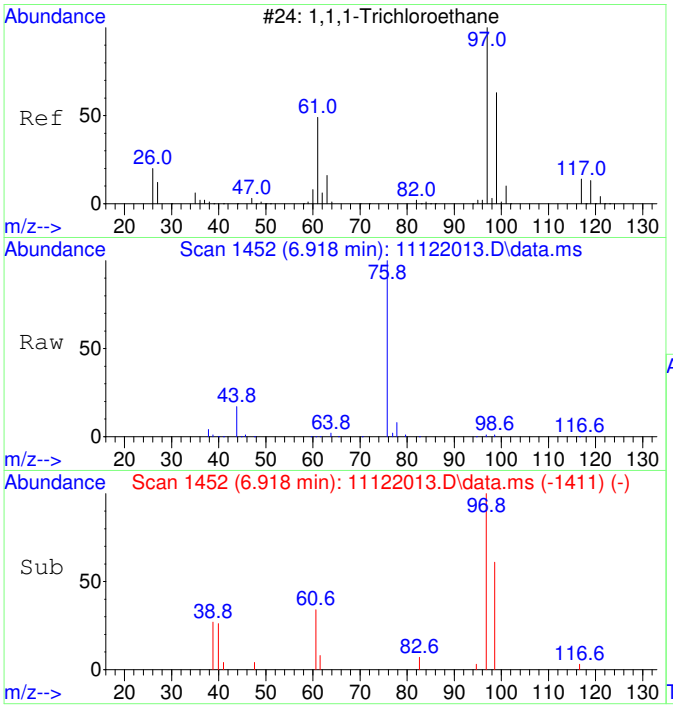


#30
Chloroform SCAN
Concen: 9852.57 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 83 Resp: 169899

Ion	Ratio	Lower	Upper
83	100		
85	65.0	34.6	94.6
47	32.3	0.0	53.4

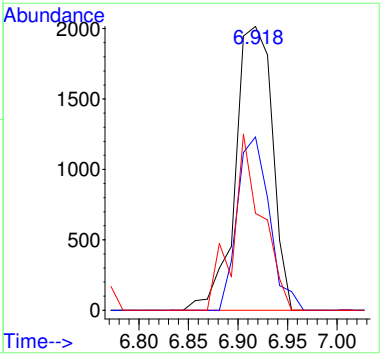


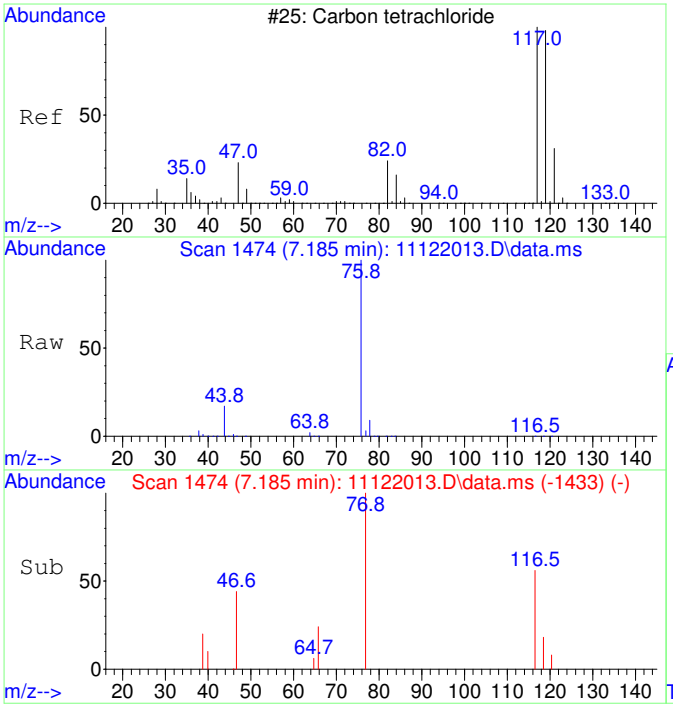


#31
1,1,1-Trichloroethane SCAN
Concen: 333.26 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 97 Resp: 5237

Ion	Ratio	Lower	Upper
97	100		
99	53.1	43.6	103.6
61	49.0	18.0	78.0

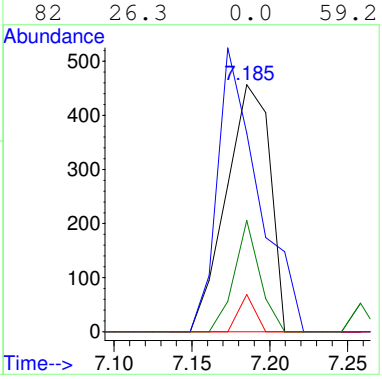


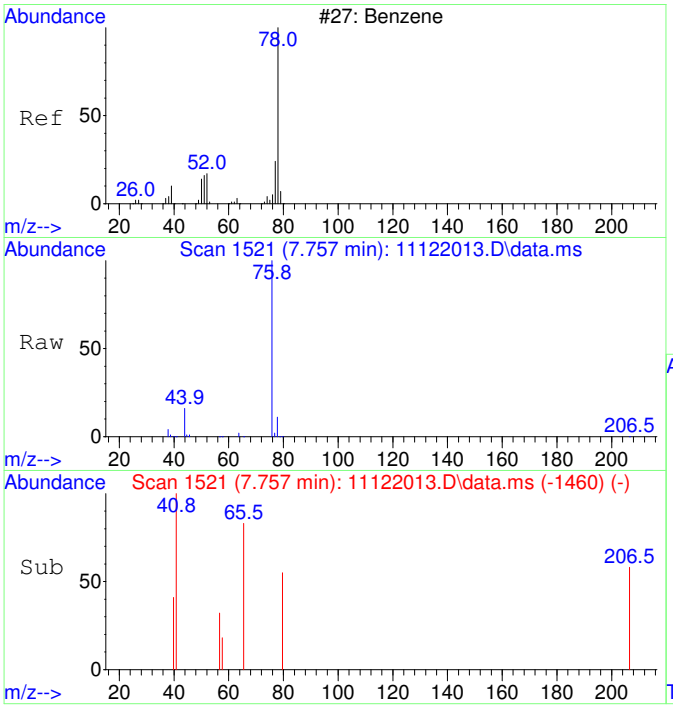


#32
Carbon tetrachloride SCAN
Concen: 54.66 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:117 Resp: 896

Ion	Ratio	Lower	Upper
117	100		
119	107.4	75.5	135.5
121	5.6	0.0	58.8
82	26.3	0.0	59.2

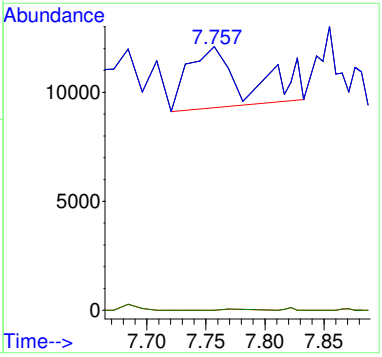


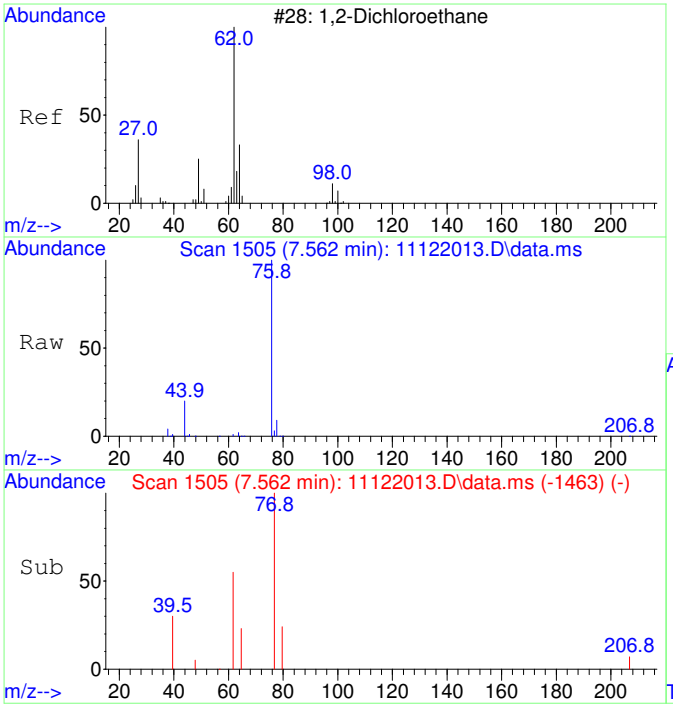


#33
Benzene SCAN
Concen: 225.04 ug/L
RT: 7.757 min Scan# 1521
Delta R.T. 0.243 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 78 Resp: 9737

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

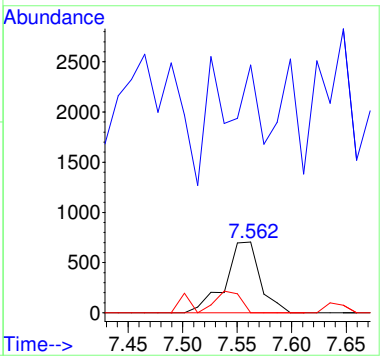


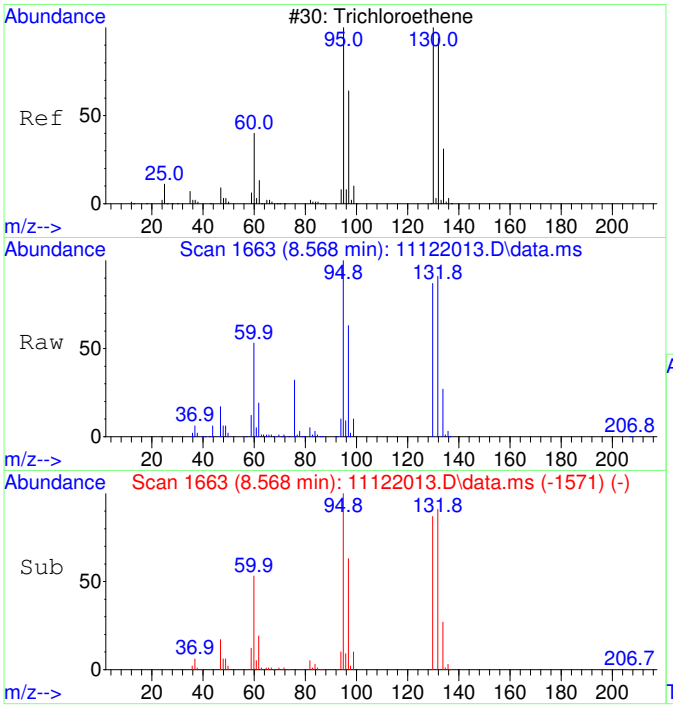


#34
1,2-Dichloroethane SCAN
Concen: 98.27 ug/L
RT: 7.562 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 62 Resp: 1570

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

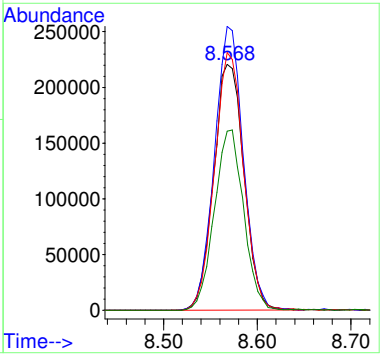


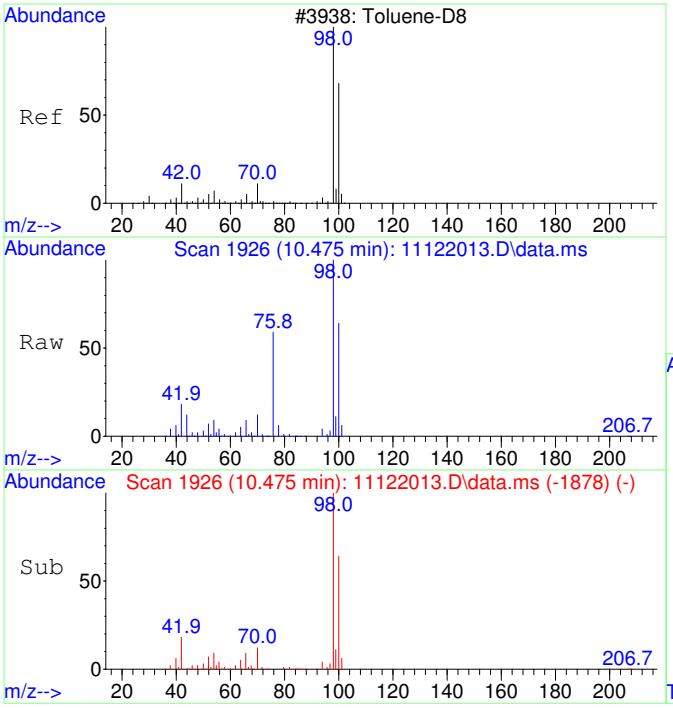


#35
Trichloroethene SCAN
Concen: 41726.50 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:130 Resp: 496133

Ion	Ratio	Lower	Upper
130	100		
95	109.5	60.5	120.5
132	100.4	59.6	119.6
97	70.3	28.2	88.2

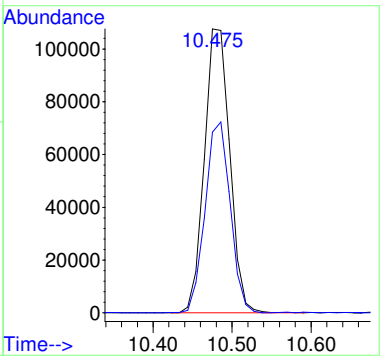


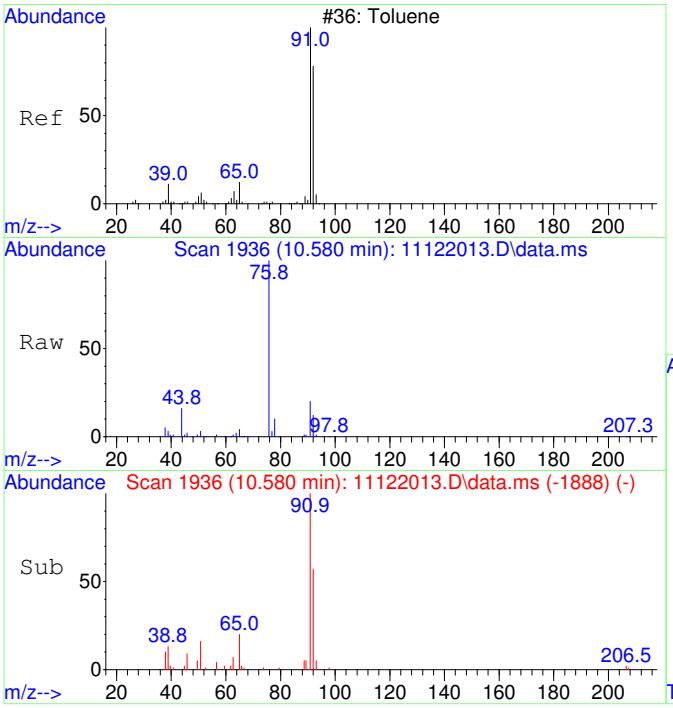


#36
Toluene-d8 SCAN
Concen: 5051.01 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 98 Resp: 241014

Ion	Ratio	Lower	Upper
98	100		
100	66.1	40.0	100.0

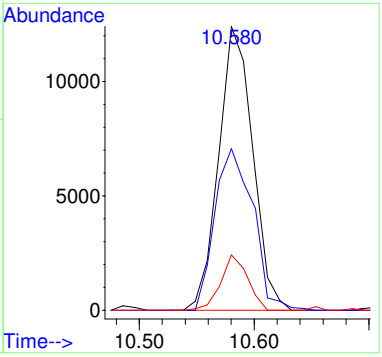


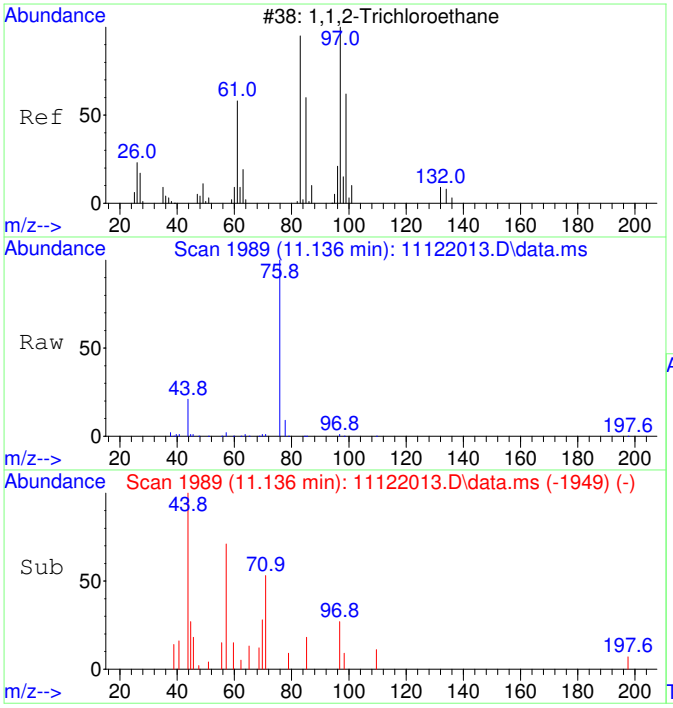


#37
Toluene SCAN
Concen: 419.65 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 25644

Ion	Ratio	Lower	Upper
91	100		
92	63.7	28.3	88.3
65	15.4	0.0	41.0

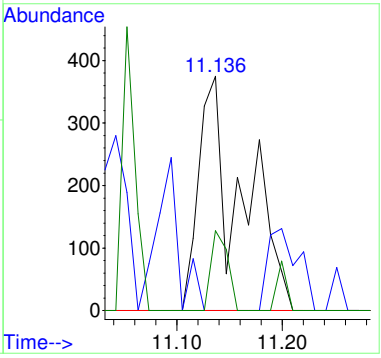


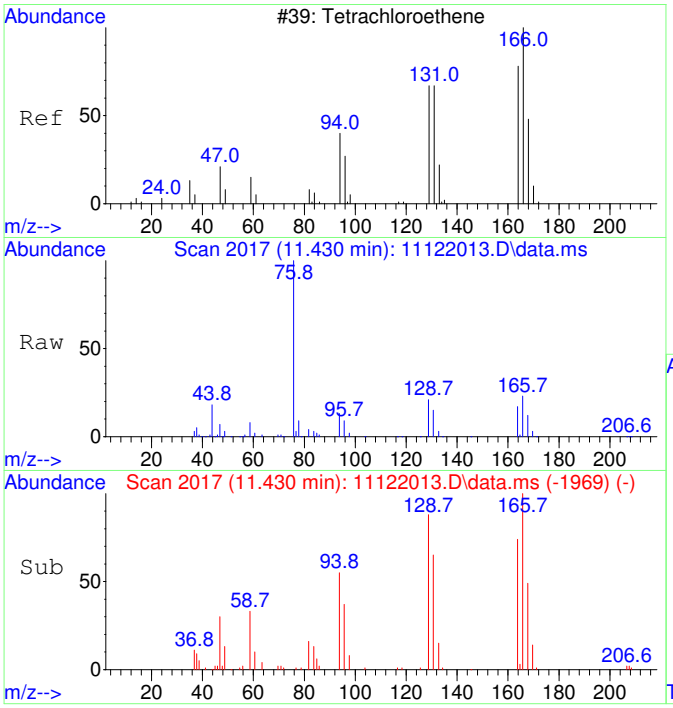


#38
1,1,2-Trichloroethane SCAN
Concen: 77.35 ug/L
RT: 11.136 min Scan# 1989
Delta R.T. -0.084 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 97 Resp: 1061

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	13.4	36.7	96.7#

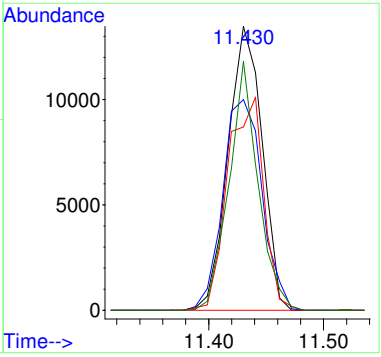


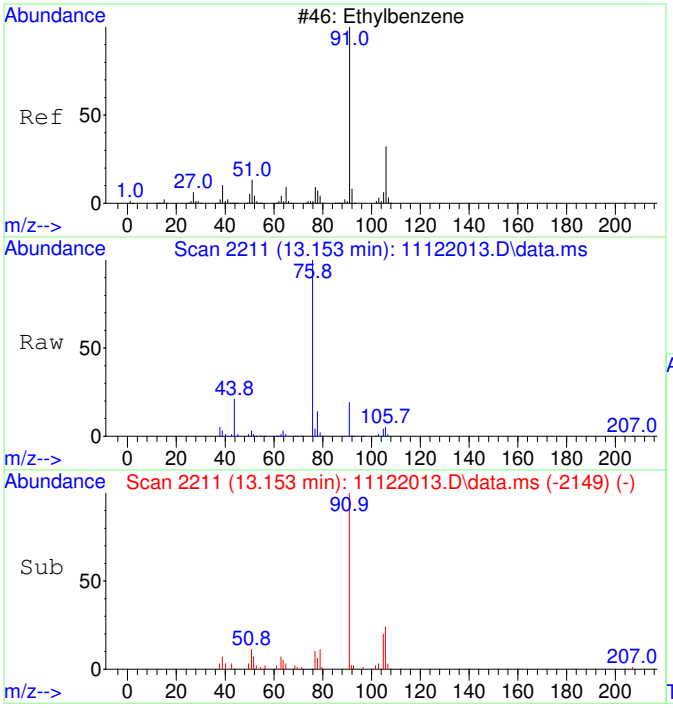


#39
Tetrachloroethene SCAN
Concen: 1900.36 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:166 Resp: 27899

Ion	Ratio	Lower	Upper
166	100		
164	85.5	50.9	110.9
131	78.9	38.7	98.7
129	74.7	41.8	101.8

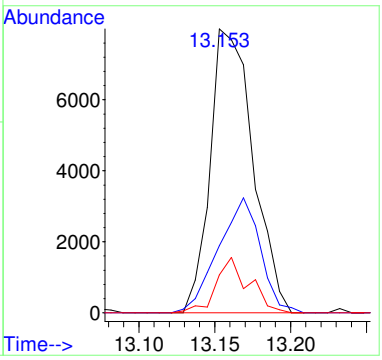


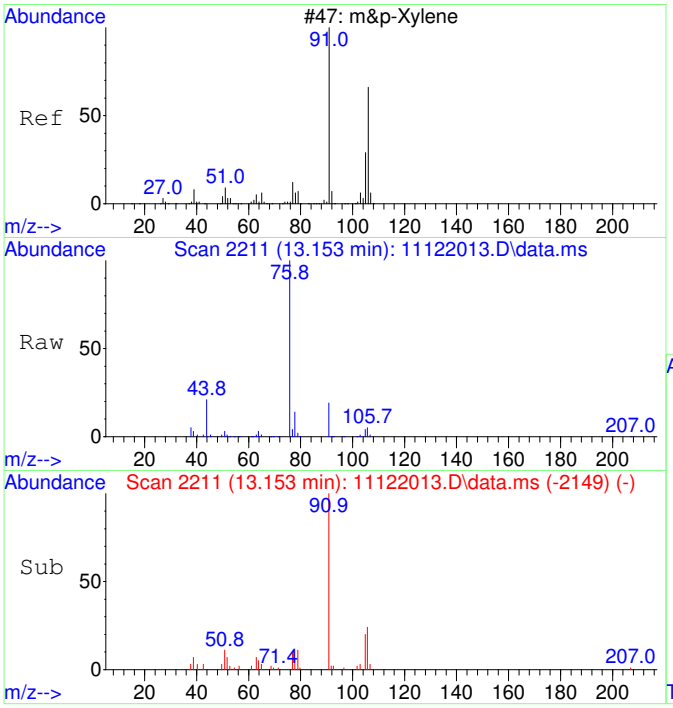


#42
Ethylbenzene SCAN
Concen: 141.15 ug/L
RT: 13.153 min Scan# 2211
Delta R.T. -0.008 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 15714

Ion	Ratio	Lower	Upper
91	100		
106	39.8	23.1	83.1
51	15.0	0.0	40.1

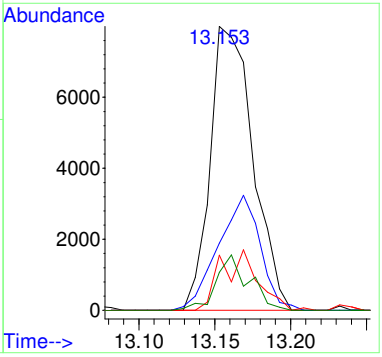


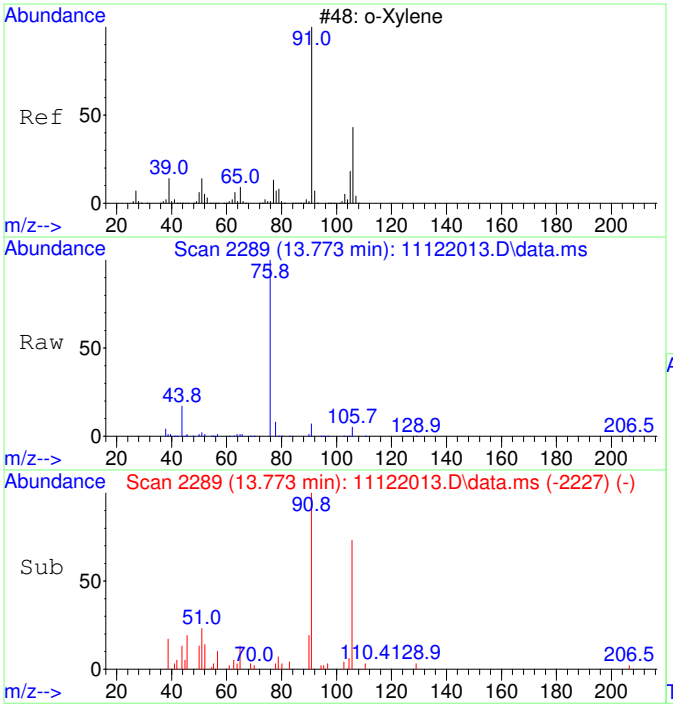


#43
m&p-Xylene SCAN
Concen: 141.15 ug/L
RT: 13.153 min Scan# 2211
Delta R.T. -0.008 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 15714

Ion	Ratio	Lower	Upper
91	100		
106	39.8	23.1	83.1
105	18.4	0.0	54.7
51	15.0	0.0	40.1

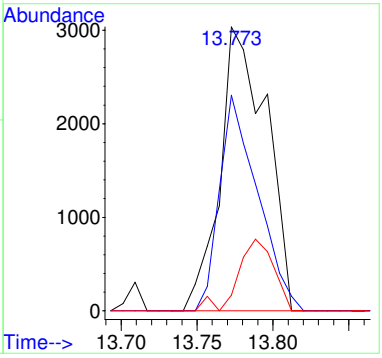


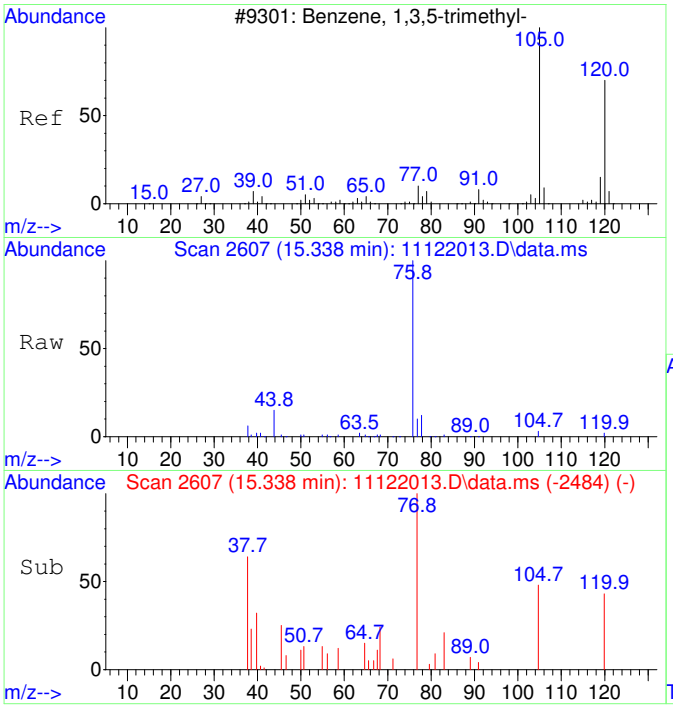


#44
o-Xylene SCAN
Concen: 108.39 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.008 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion: 91 Resp: 6459

Ion	Ratio	Lower	Upper
91	100		
106	62.5	18.0	78.0
105	19.3	0.0	56.6

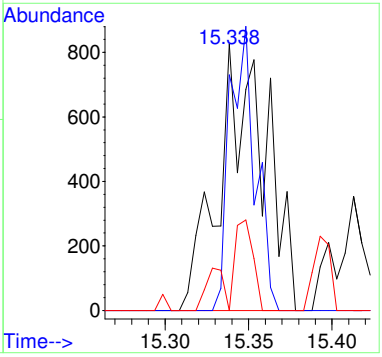


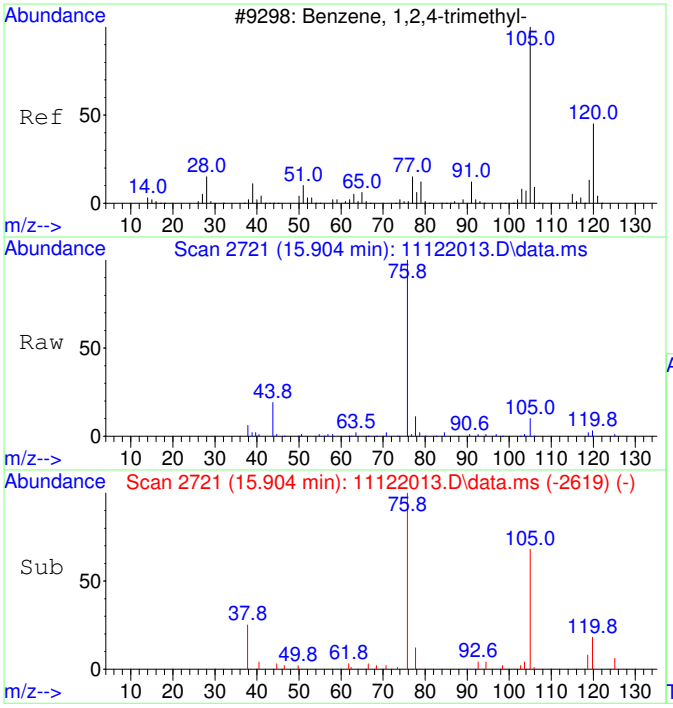


#46
1,3,5-Trimethylbenzene SCAN
Concen: 25.81 ug/L
RT: 15.338 min Scan# 2607
Delta R.T. -0.005 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:105 Resp: 1621

Ion	Ratio	Lower	Upper
105	100		
120	58.2	18.3	78.3
119	18.9	0.0	43.1

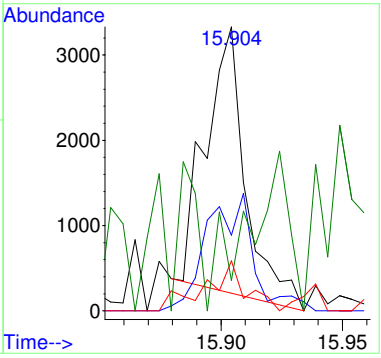




#47
1,2,4-Trimethylbenzene SCAN
Concen: 54.09 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122013.D
Acq: 12 Nov 2020 13:12

Tgt Ion:105 Resp: 3476

Ion	Ratio	Lower	Upper
105	100		
120	52.5	16.9	76.9
119	19.4	0.0	41.9
77	63.4	0.0	42.3#



2011015-06

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122014.D
Acq On : 12 Nov 2020 13:36
InstName : AG5975C
Operator : TD
Sample : 2011015-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 12 13:54:58 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

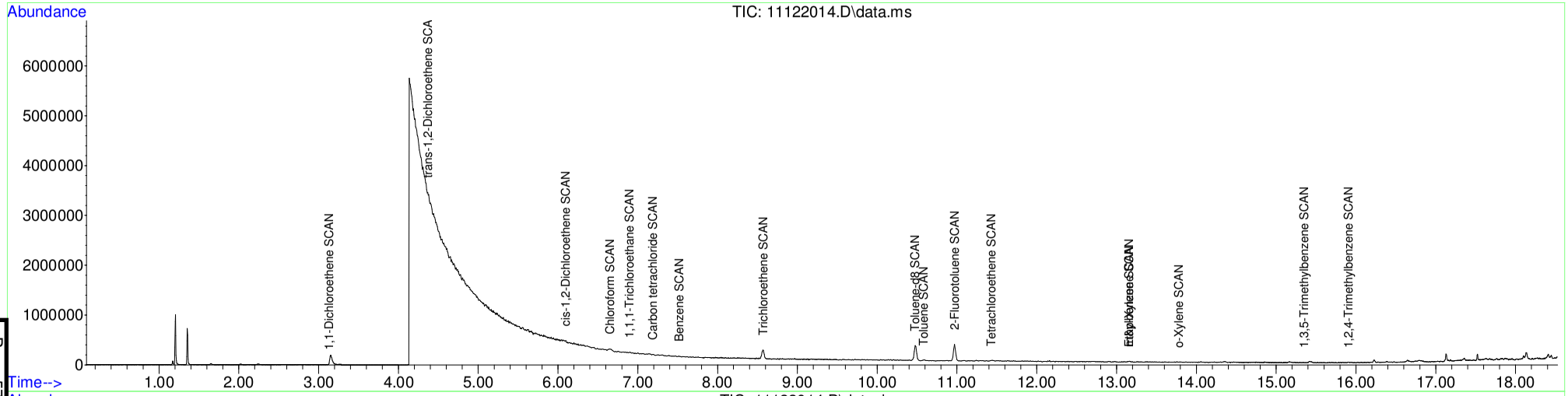
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	484965	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	412914	4349.34	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.99%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.093	61	2228	115.05	ug/L	88
3] trans-1,2-Dichloroethene	4.369	61	2267	101.32	ug/L	84
4] 1,1-Dichloroethane	5.079	63	2090	75.04	ug/L	69
5] cis-1,2-Dichloroethene	6.088	61	40016	1361.12	ug/L	98
6] Chloroform	6.652	83	66816	2220.44	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1308	40.03	ug/L	100
8] Carbon tetrachloride	7.175	117	1723	56.02	ug/L	98
9] Benzene	7.503	78	11878	144.15	ug/L	69
11] Trichloroethene	8.569	130	116199	4683.74	ug/L	93
13] Toluene	10.571	91	25190	208.12	ug/L	99
15] Tetrachloroethene	11.432	166	5499	156.99	ug/L	100
18] Ethylbenzene	12.972	91	6505	44.15	ug/L	95
19] m&p-Xylene	13.162	91	16533	143.58	ug/L	94
20] o-Xylene	13.782	91	5954	48.40	ug/L	97
23] 1,2,4-Trimethylbenzene	15.899	105	7006	51.51	ug/L	87
25) 2-Fluorotoluene SCAN	10.969	109	253768	5367.89	ug/L	99
26) 1,1-Dichloroethene SCAN	3.126	61	215	21.41	ug/L	93
27) trans-1,2-Dichloroethe...	4.368	61	1363	109.71	ug/L #	24
29) cis-1,2-Dichloroethene...	6.086	61	24589	1596.21	ug/L #	79
30) Chloroform SCAN	6.650	83	39976	2392.56	ug/L	93
31) 1,1,1-Trichloroethane ...	6.894	97	718	47.16	ug/L #	19
32) Carbon tetrachloride SCAN	7.186	117	1856	116.86	ug/L #	15
33) Benzene SCAN	7.514	78	20621	491.88	ug/L	96
35) Trichloroethene SCAN	8.568	130	59318	5148.80	ug/L	85
36) Toluene-d8 SCAN	10.475	98	227014	4910.15	ug/L	95
37) Toluene SCAN	10.580	91	13193	222.82	ug/L	97
39) Tetrachloroethene SCAN	11.430	166	3447	242.32	ug/L #	54
42) Ethylbenzene SCAN	13.153	91	8777	81.37	ug/L	86
43) m&p-Xylene SCAN	13.153	91	8777	81.37	ug/L	90
44) o-Xylene SCAN	13.773	91	3767	65.24	ug/L	68
46) 1,3,5-Trimethylbenzene...	15.342	105	1367	22.46	ug/L	91
47) 1,2,4-Trimethylbenzene...	15.903	105	4901	78.71	ug/L	72

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122014.D
Acq On : 12 Nov 2020 13:36
InstName : AG5975C
Operator : TD
Sample : 2011015-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 12 13:54:58 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



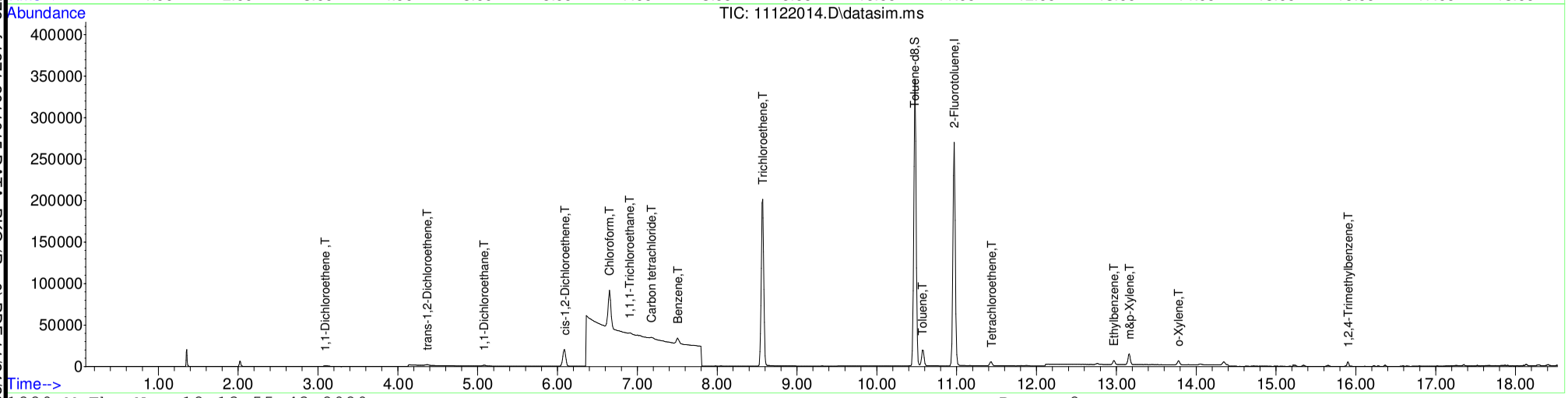
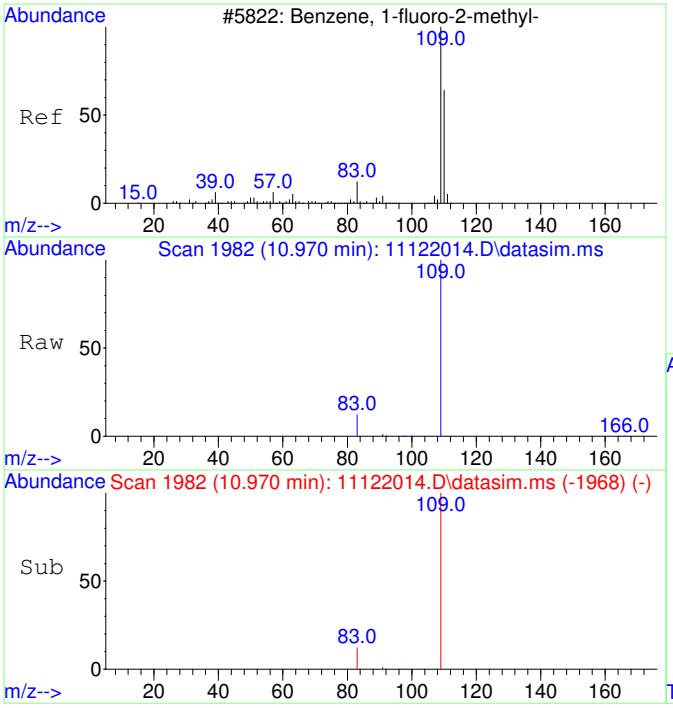


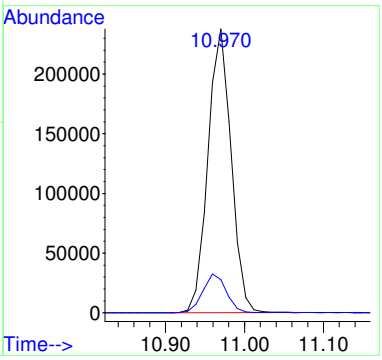
Table of Contents

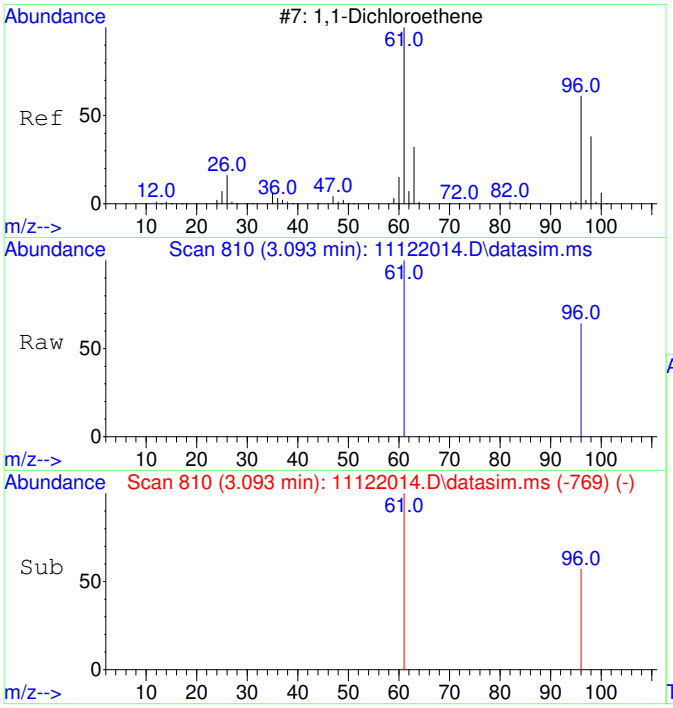


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:109 Resp: 484965

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

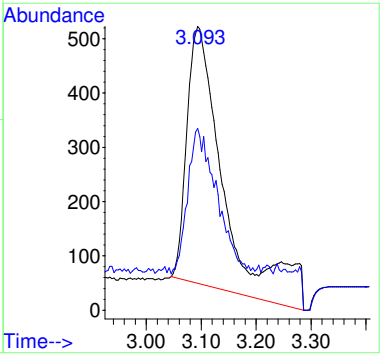




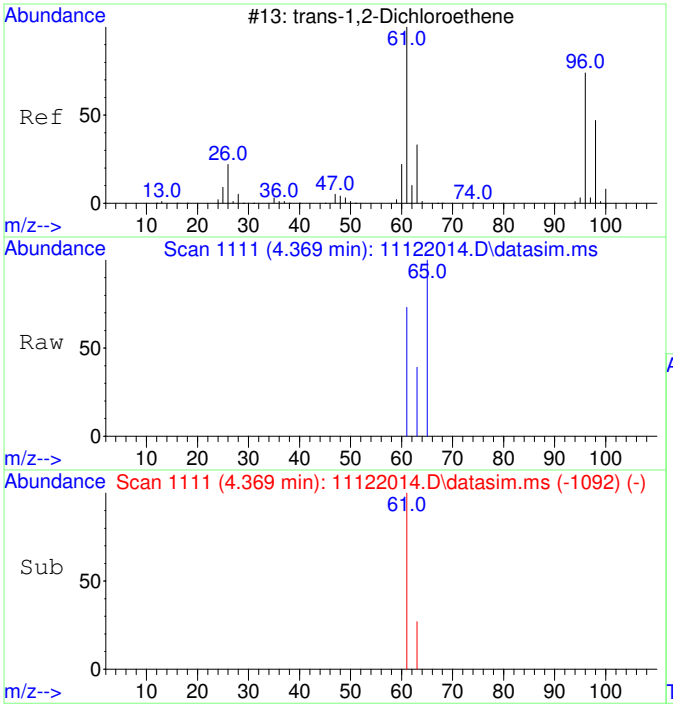
#2
1,1-Dichloroethene
Concen: 115.05 ug/L
RT: 3.093 min Scan# 810
Delta R.T. 0.004 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 61 Resp: 2228

Ion	Ratio	Lower	Upper
61	100		
96	57.6	37.2	97.2



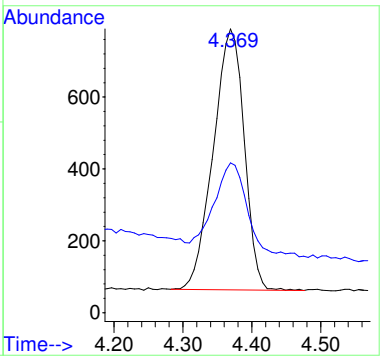
Before MI:
IMPROPER
BASELINE

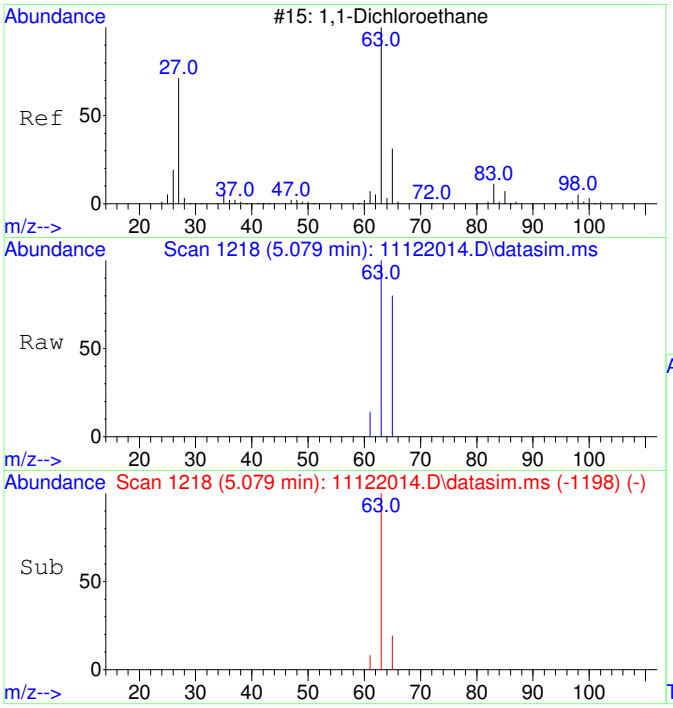


#3
trans-1,2-Dichloroethene
Concen: 101.32 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. -0.027 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 61 Resp: 2267

Ion	Ratio	Lower	Upper
61	100		
63	41.1	2.4	62.4

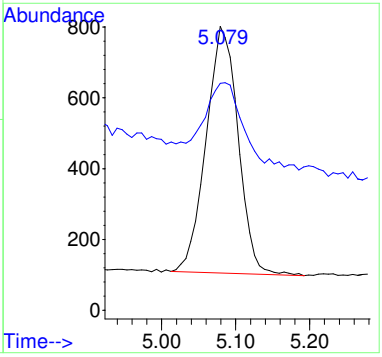


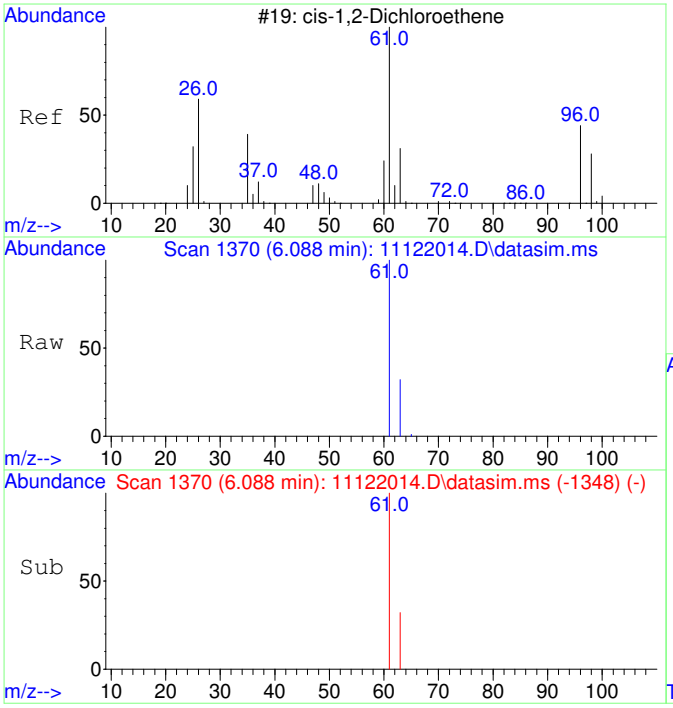


#4
1,1-Dichloroethane
Concen: 75.04 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 63 Resp: 2090

Ion	Ratio	Lower	Upper
63	100		
65	49.0	1.8	61.8

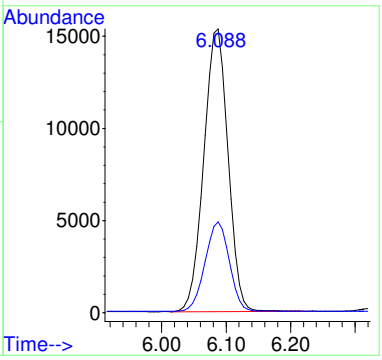


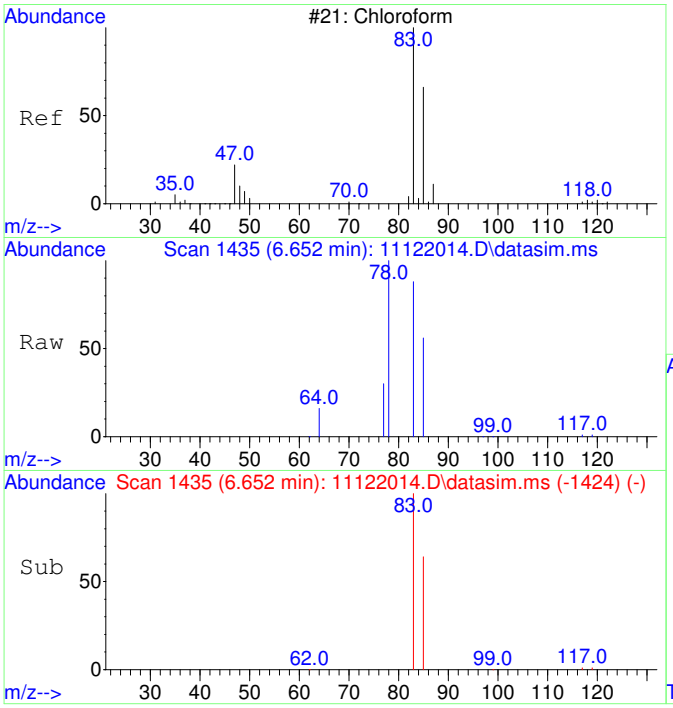


#5
cis-1,2-Dichloroethene
Concen: 1361.12 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 61 Resp: 40016

Ion	Ratio	Lower	Upper
61	100		
63	31.5	2.5	62.5

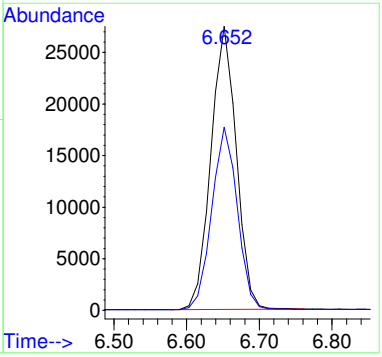


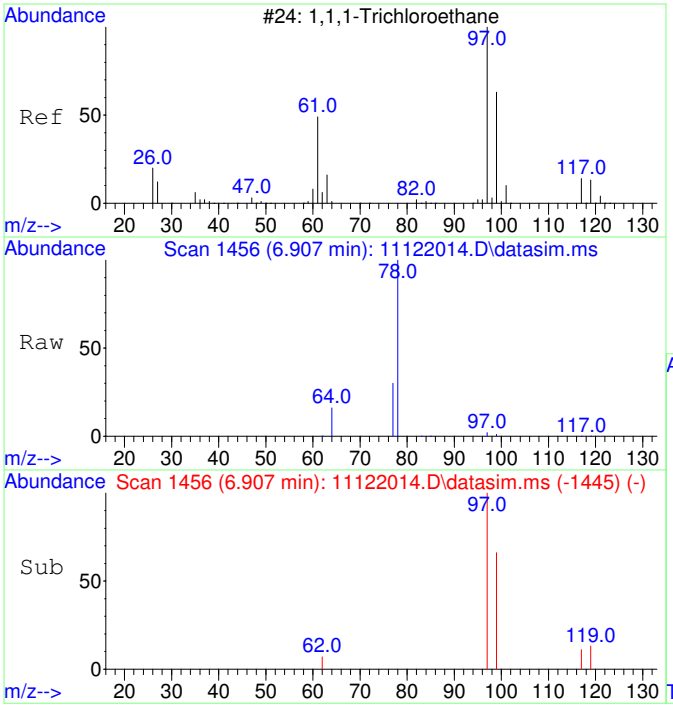


#6
Chloroform
Concen: 2220.44 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 83 Resp: 66816

Ion	Ratio	Lower	Upper
83	100		
85	64.4	35.1	95.1

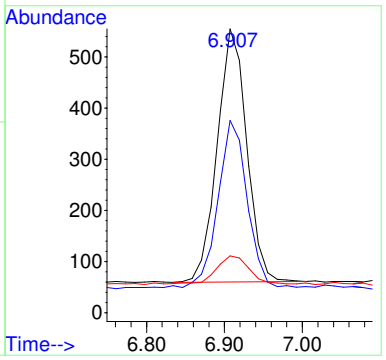


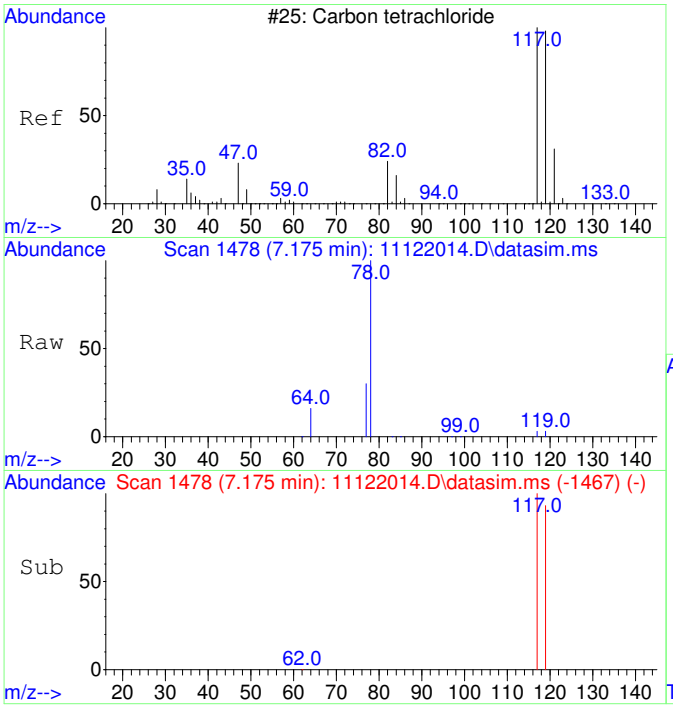


#7
1,1,1-Trichloroethane
Concen: 40.03 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 97 Resp: 1308

Ion	Ratio	Lower	Upper
97	100		
99	64.5	34.6	94.6
117	13.1	0.0	43.2

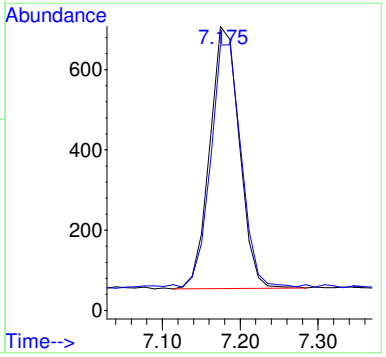


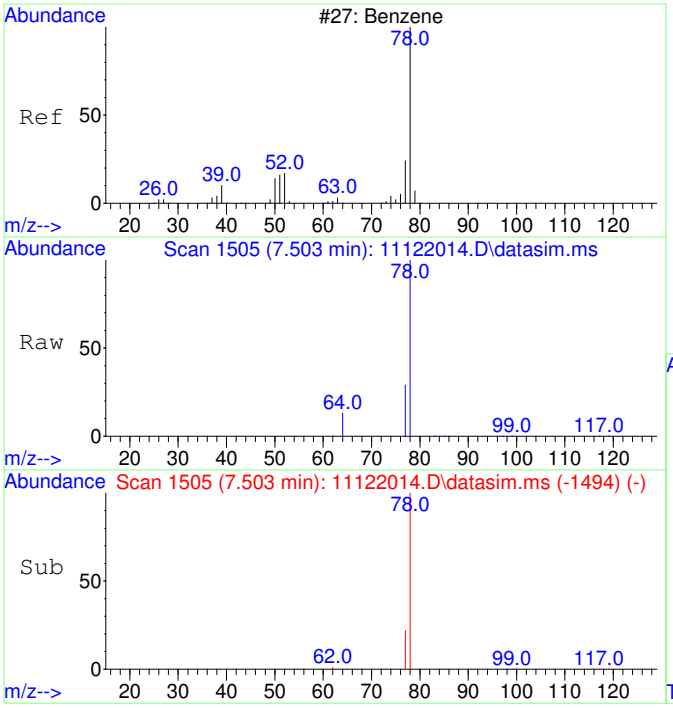


#8
Carbon tetrachloride
Concen: 56.02 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:117 Resp: 1723

Ion	Ratio	Lower	Upper
117	100		
119	94.5	66.4	126.4

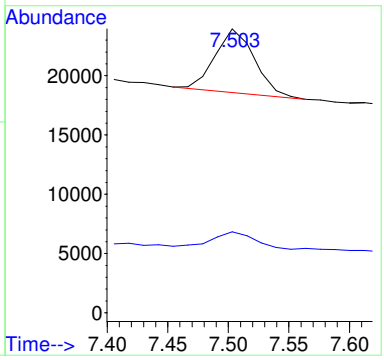


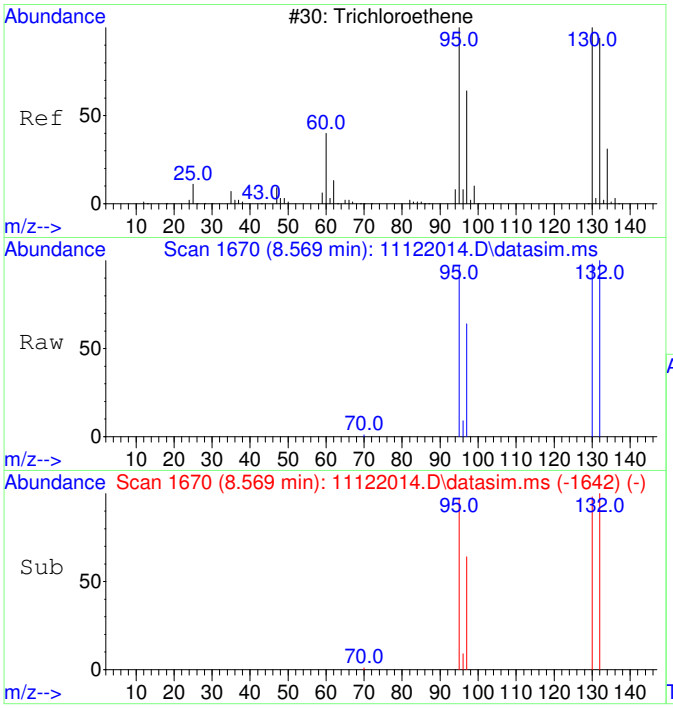


#9
Benzene
Concen: 144.15 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 78 Resp: 11878

Ion	Ratio	Lower	Upper
78	100		
77	38.5	0.0	53.2

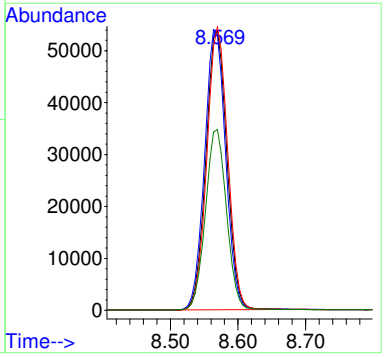


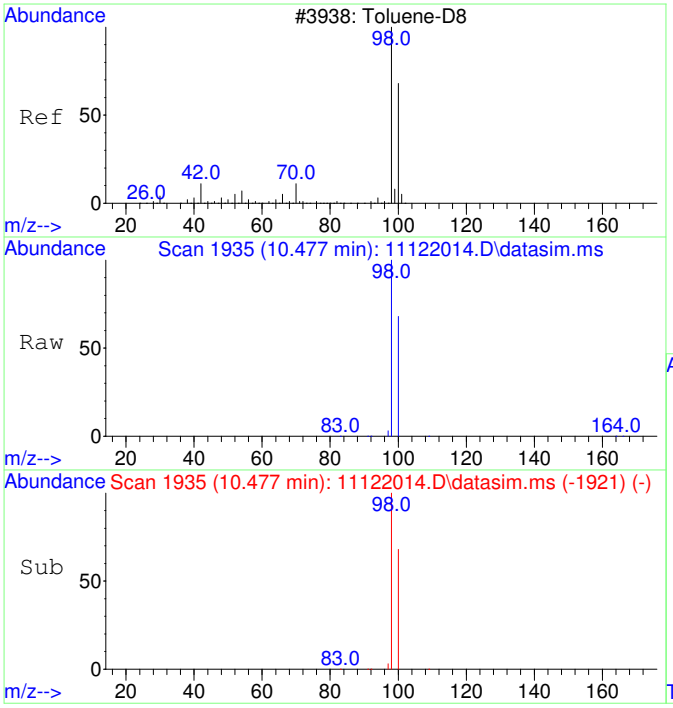


#11
Trichloroethene
Concen: 4683.74 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:130 Resp: 116199

Ion	Ratio	Lower	Upper
130	100		
95	100.5	60.7	120.7
132	100.3	76.0	116.0
97	64.7	38.6	78.6

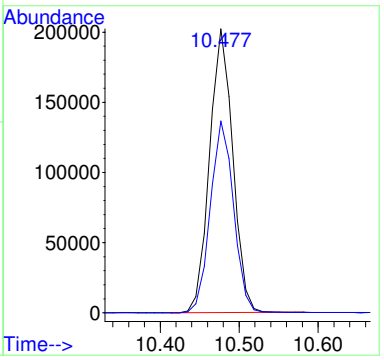


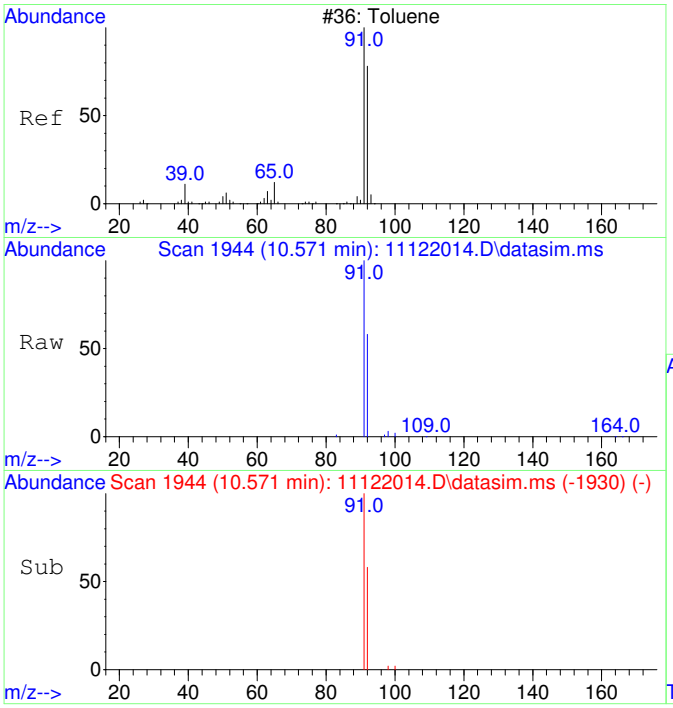


#12
Toluene-d8
Concen: 4349.34 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 98 Resp: 412914

Ion	Ratio	Lower	Upper
98	100		
100	67.3	37.1	97.1

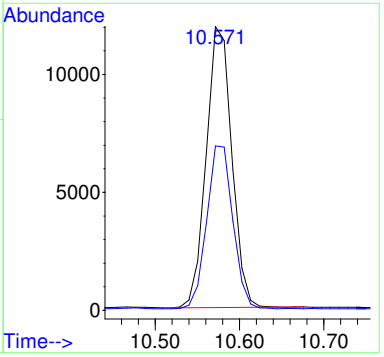


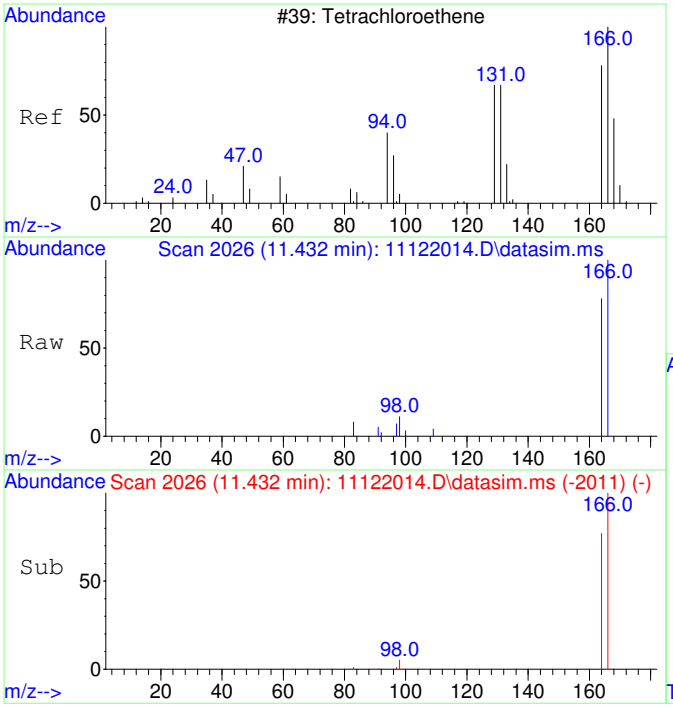


#13
Toluene
Concen: 208.12 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 25190

Ion	Ratio	Lower	Upper
91	100		
92	59.1	29.9	89.9

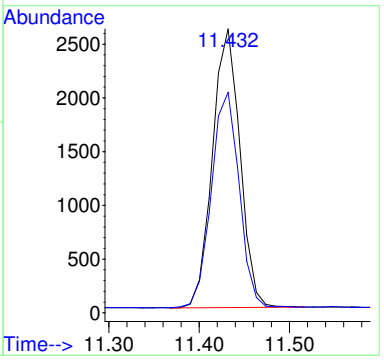


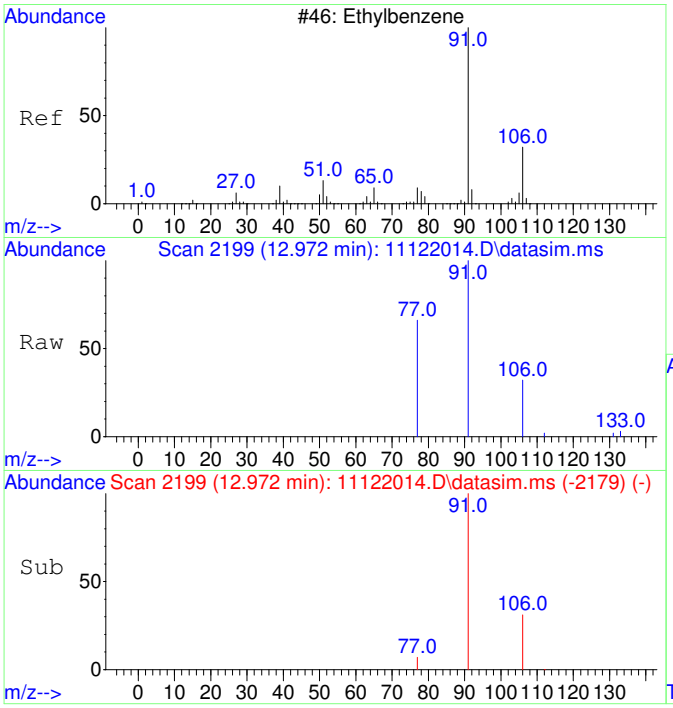


#15
Tetrachloroethene
Concen: 156.99 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:166 Resp: 5499

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

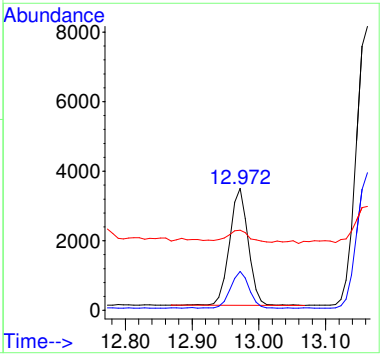


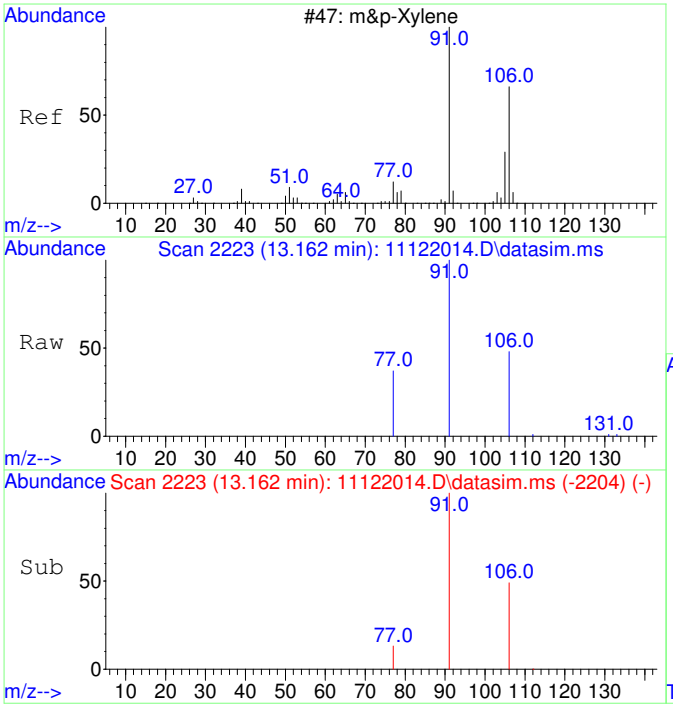


#18
Ethylbenzene
Concen: 44.15 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 6505

Ion	Ratio	Lower	Upper
91	100		
106	31.2	3.0	63.0
77	12.6	0.0	38.2

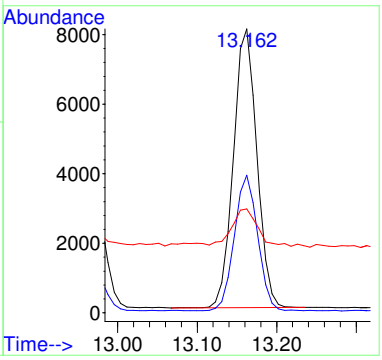


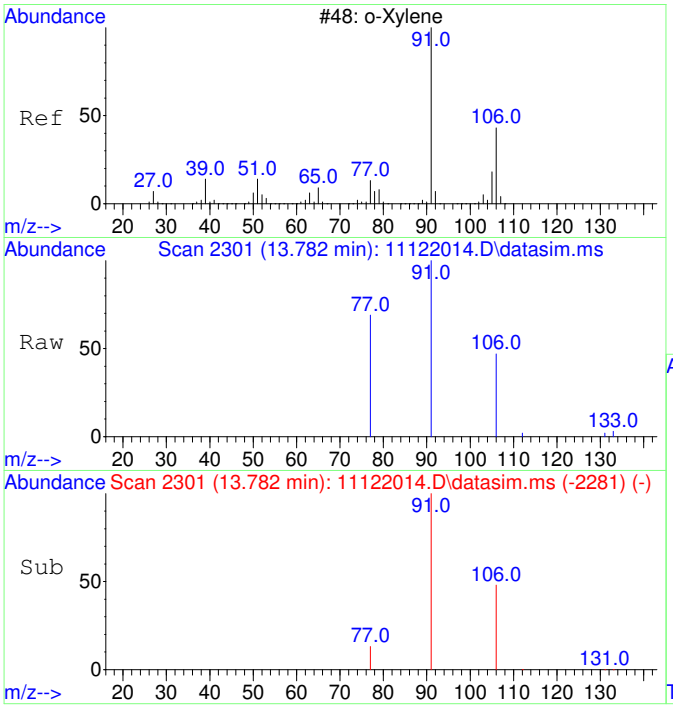


#19
m&p-Xylene
Concen: 143.58 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 16533

Ion	Ratio	Lower	Upper
91	100		
106	48.5	22.2	82.2
77	15.7	0.0	42.4

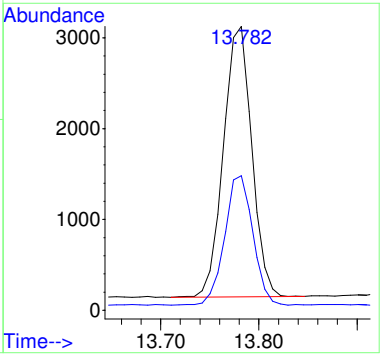


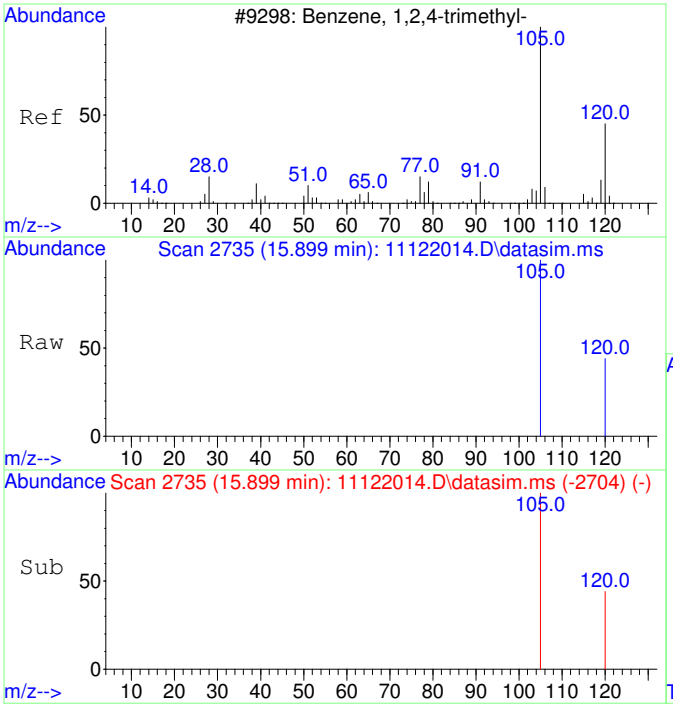


#20
o-Xylene
Concen: 48.40 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 5954

Ion	Ratio	Lower	Upper
91	100		
106	47.4	19.2	79.2

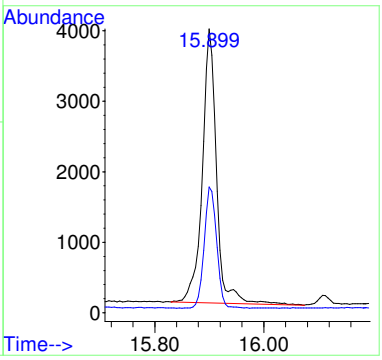


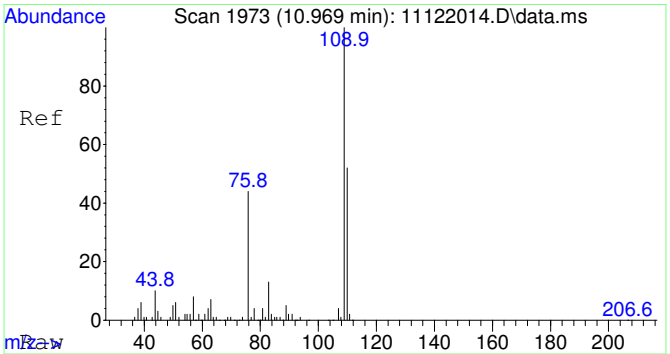


#23
1,2,4-Trimethylbenzene
Concen: 51.51 ug/L
RT: 15.899 min Scan# 2735
Delta R.T. 0.004 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:105 Resp: 7006

Ion	Ratio	Lower	Upper
105	100		
120	38.6	17.2	77.2

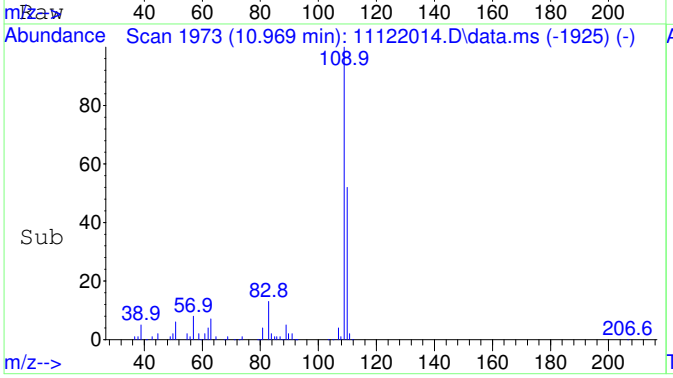


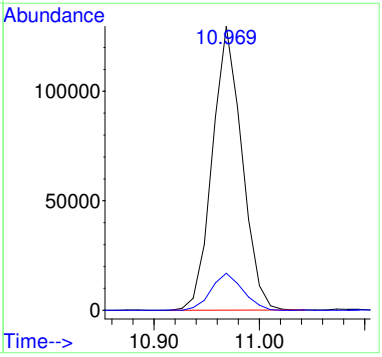


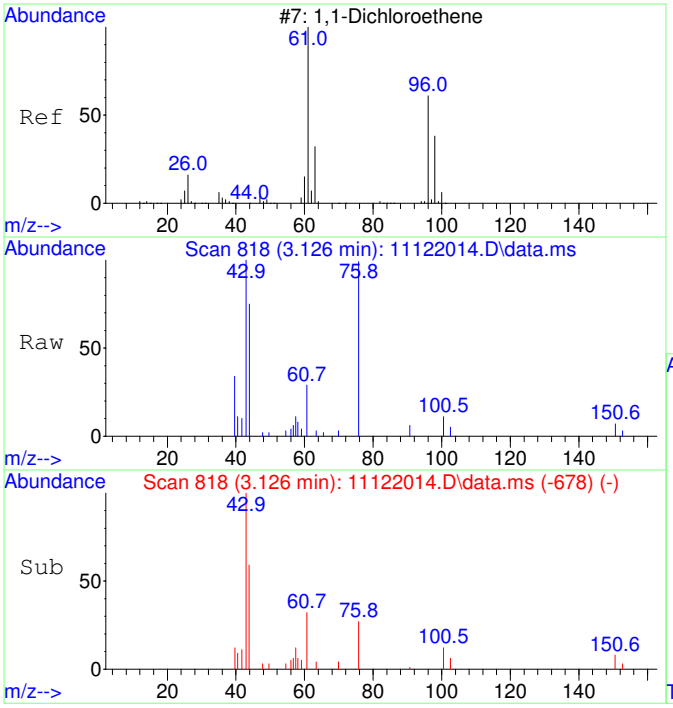
#25
2-Fluorotoluene SCAN
Concen: 5367.89 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:109 Resp: 253768

Ion	Ratio	Lower	Upper
109	100		
83	14.1	0.0	43.8



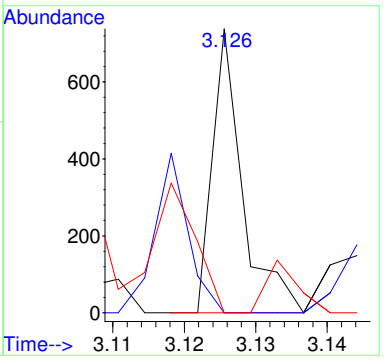


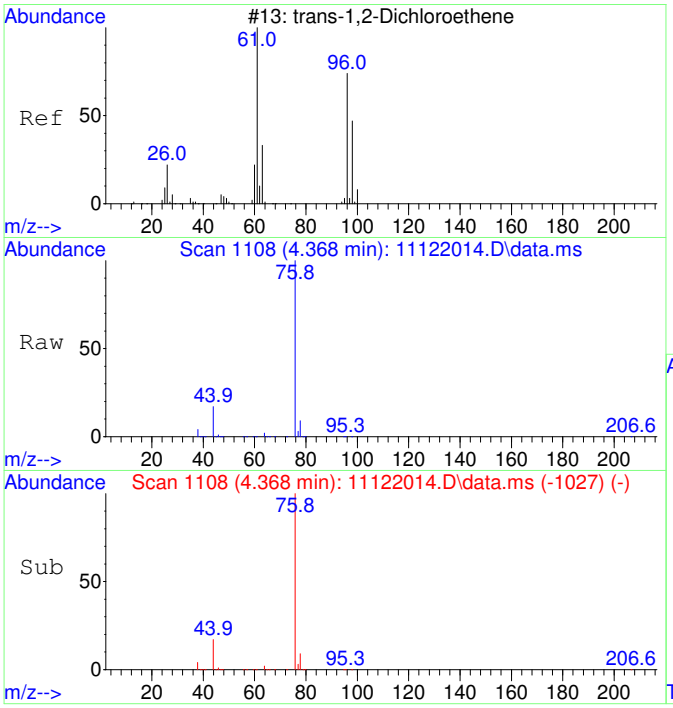


#26
1,1-Dichloroethene SCAN
Concen: 21.41 ug/L
RT: 3.126 min Scan# 818
Delta R.T. 0.019 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 61 Resp: 215

Ion	Ratio	Lower	Upper
61	100		
96	62.3	33.1	93.1
98	52.1	11.2	71.2

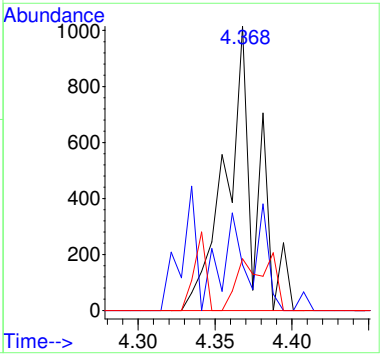


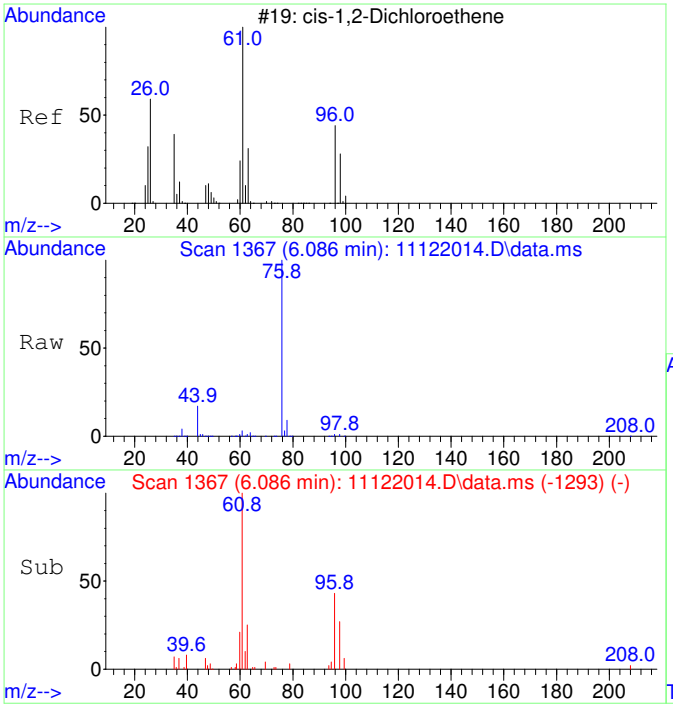


#27
trans-1,2-Dichloroethene SCAN
Concen: 109.71 ug/L
RT: 4.368 min Scan# 1108
Delta R.T. -0.033 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 61 Resp: 1363

Ion	Ratio	Lower	Upper
61	100		
96	10.9	49.0	109.0#
98	0.0	20.5	80.5#

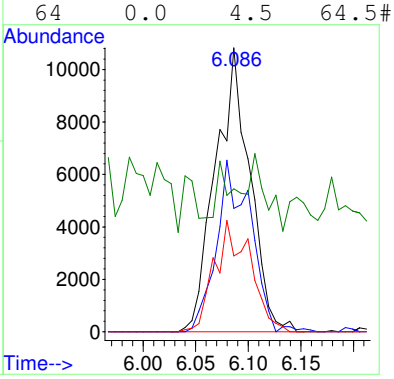


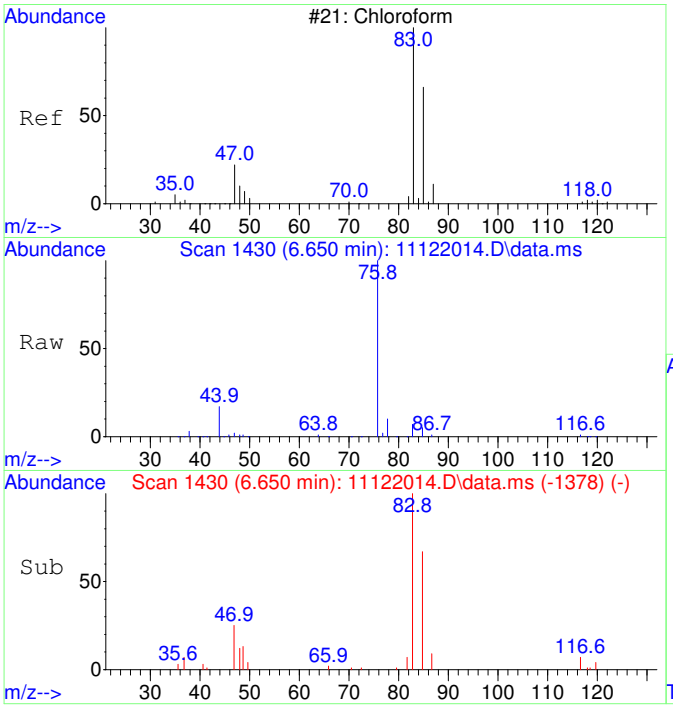


#29
cis-1,2-Dichloroethene SCAN
Concen: 1596.21 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 61 Resp: 24589

Ion	Ratio	Lower	Upper
61	100		
96	60.1	39.9	99.9
98	40.6	13.5	73.5
64	0.0	4.5	64.5#

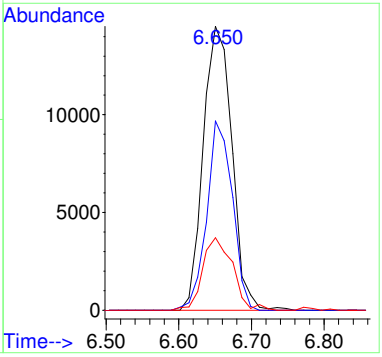


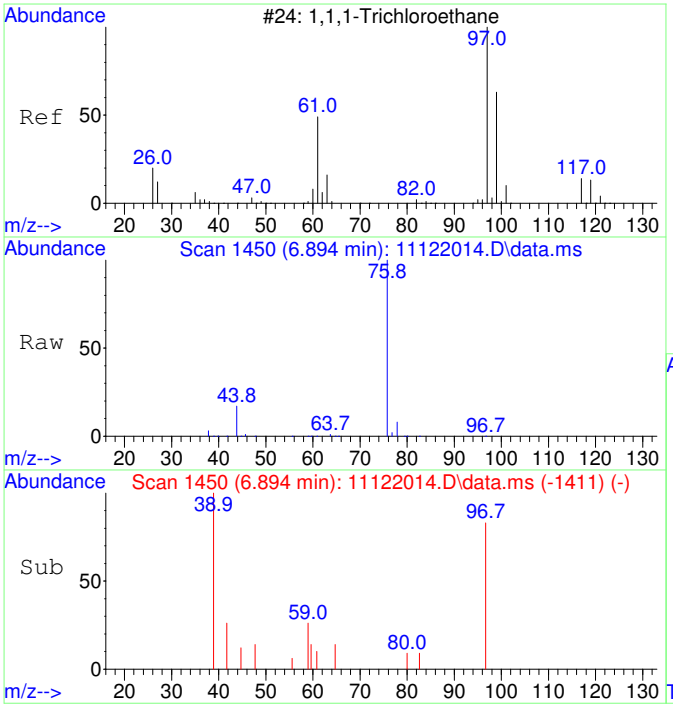


#30
Chloroform SCAN
Concen: 2392.56 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 83 Resp: 39976

Ion	Ratio	Lower	Upper
83	100		
85	59.5	34.6	94.6
47	26.7	0.0	53.4

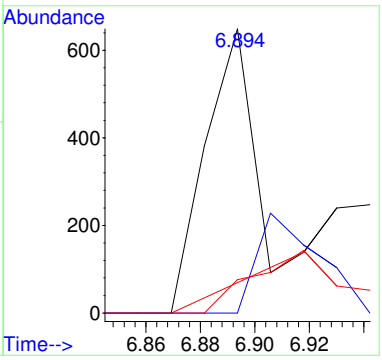


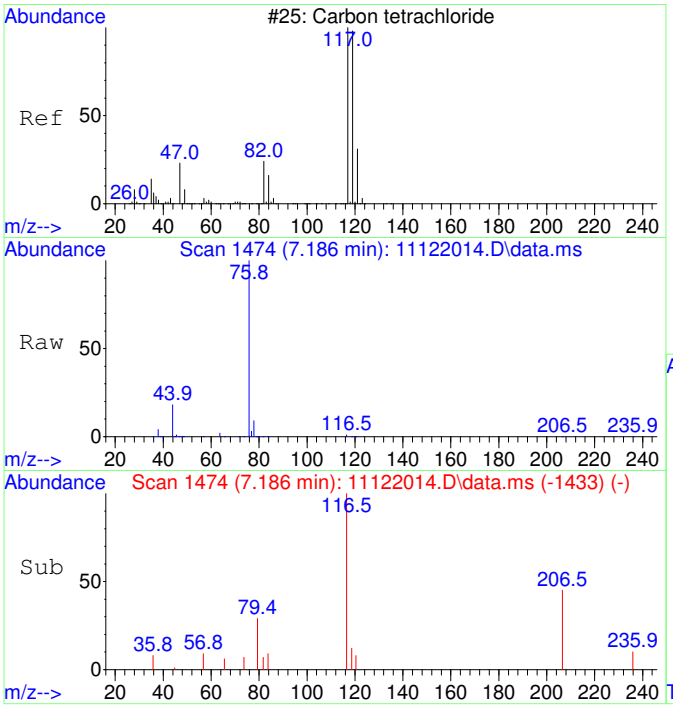


#31
1,1,1-Trichloroethane SCAN
Concen: 47.16 ug/L
RT: 6.894 min Scan# 1450
Delta R.T. -0.024 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 97 Resp: 718

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

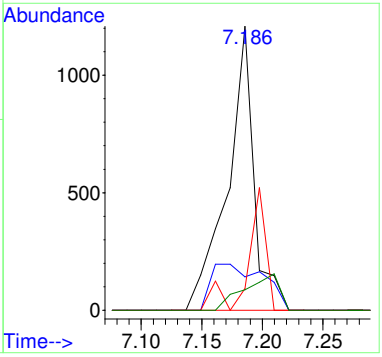


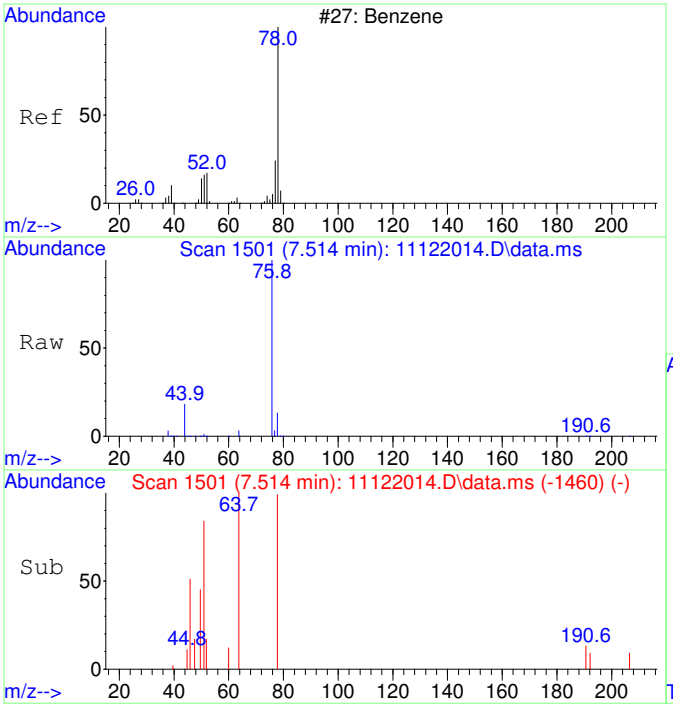


#32
Carbon tetrachloride SCAN
Concen: 116.86 ug/L
RT: 7.186 min Scan# 1474
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:117 Resp: 1856

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

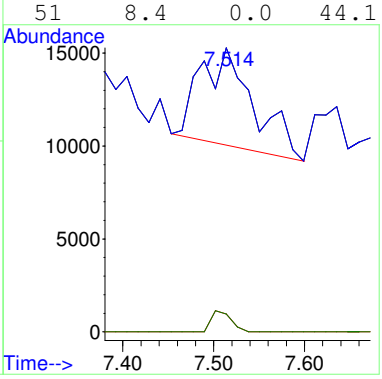


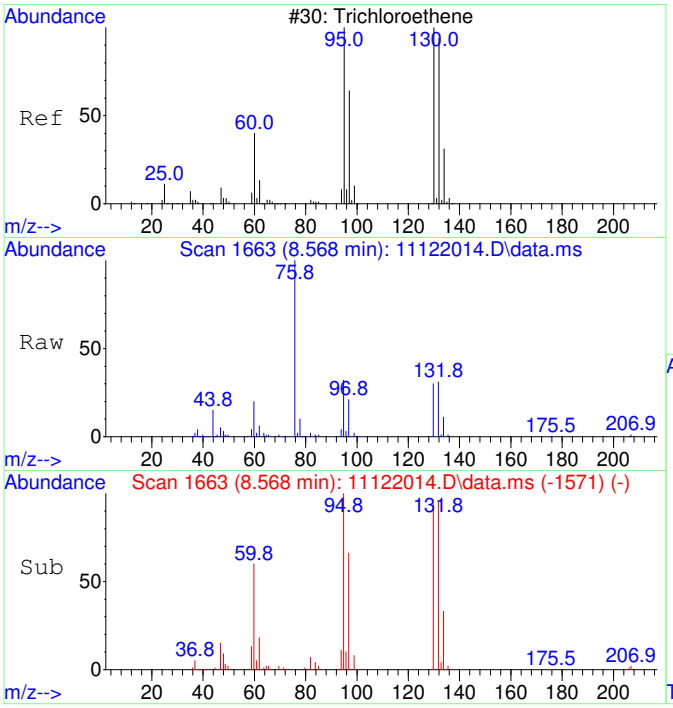


#33
Benzene SCAN
Concen: 491.88 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 78 Resp: 20621

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.4	0.0	47.9
51	8.4	0.0	44.1

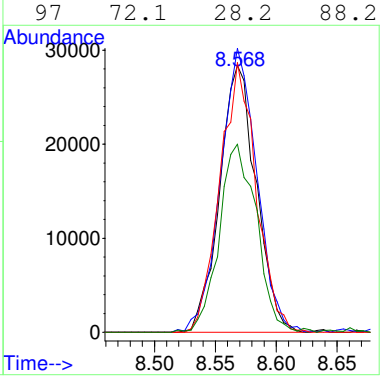


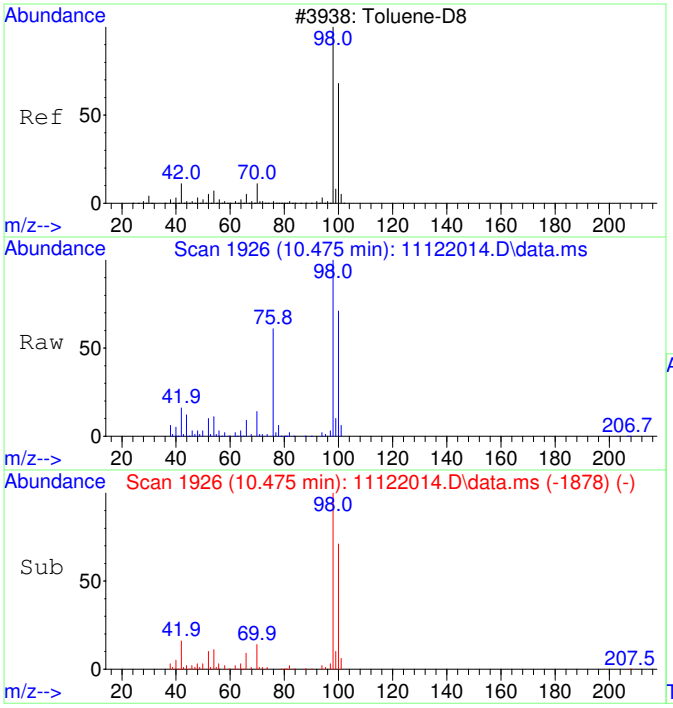


#35
Trichloroethene SCAN
Concen: 5148.80 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:130 Resp: 59318

Ion	Ratio	Lower	Upper
130	100		
95	106.3	60.5	120.5
132	100.3	59.6	119.6
97	72.1	28.2	88.2

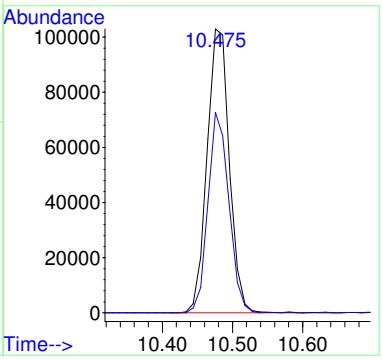


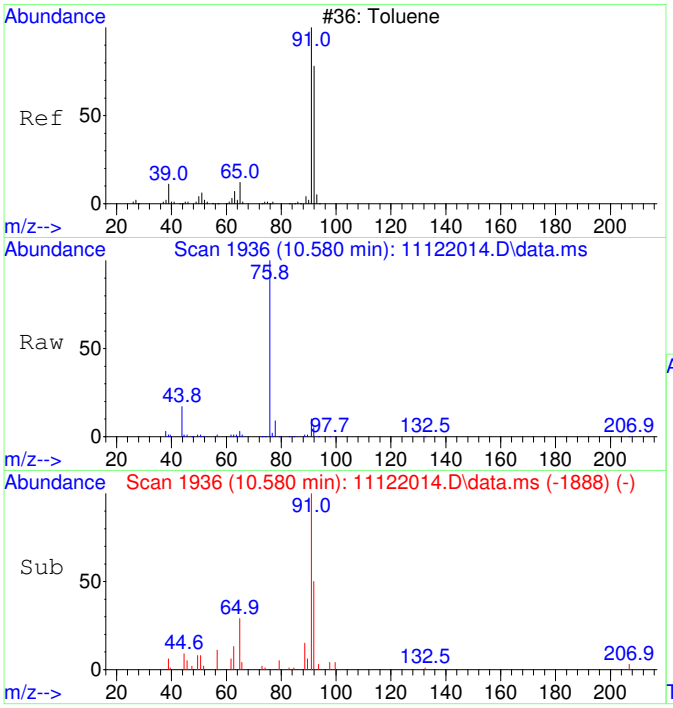


#36
Toluene-d8 SCAN
Concen: 4910.15 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 98 Resp: 227014

Ion	Ratio	Lower	Upper
98	100		
100	65.9	40.0	100.0

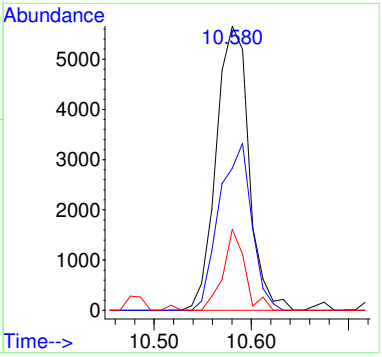


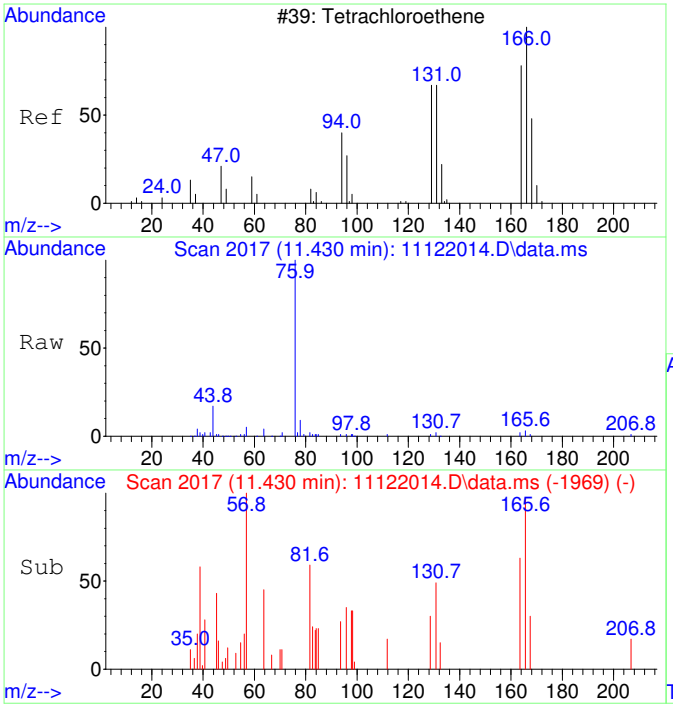


#37
Toluene SCAN
Concen: 222.82 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 13193

Ion	Ratio	Lower	Upper
91	100		
92	58.4	28.3	88.3
65	18.9	0.0	41.0

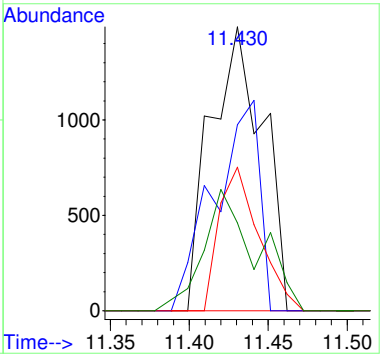


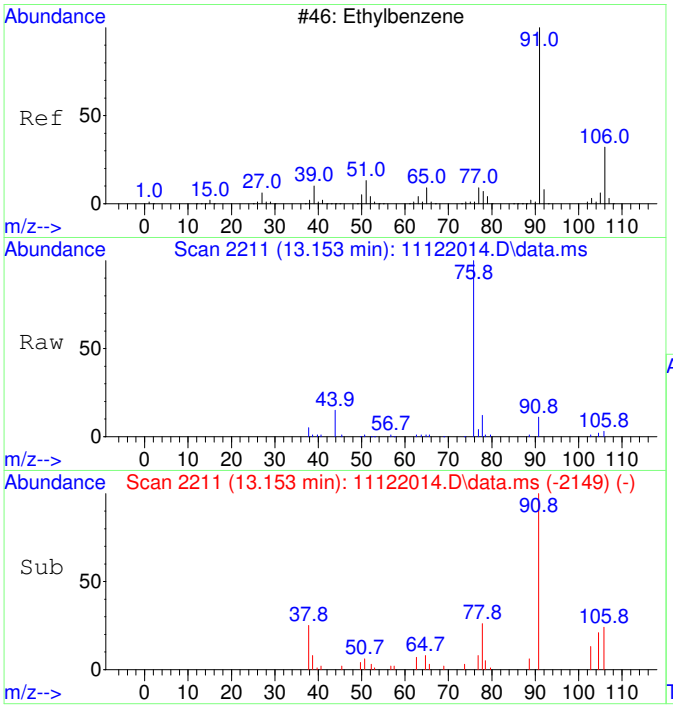


#39
Tetrachloroethene SCAN
Concen: 242.32 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:166 Resp: 3447

Ion	Ratio	Lower	Upper
166	100		
164	64.0	50.9	110.9
131	38.5	38.7	98.7#
129	0.0	41.8	101.8#

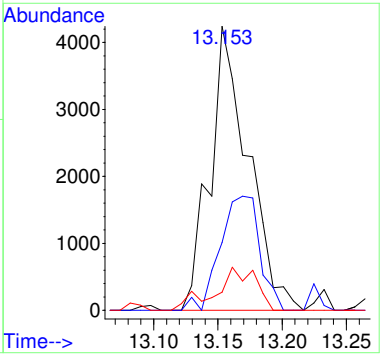


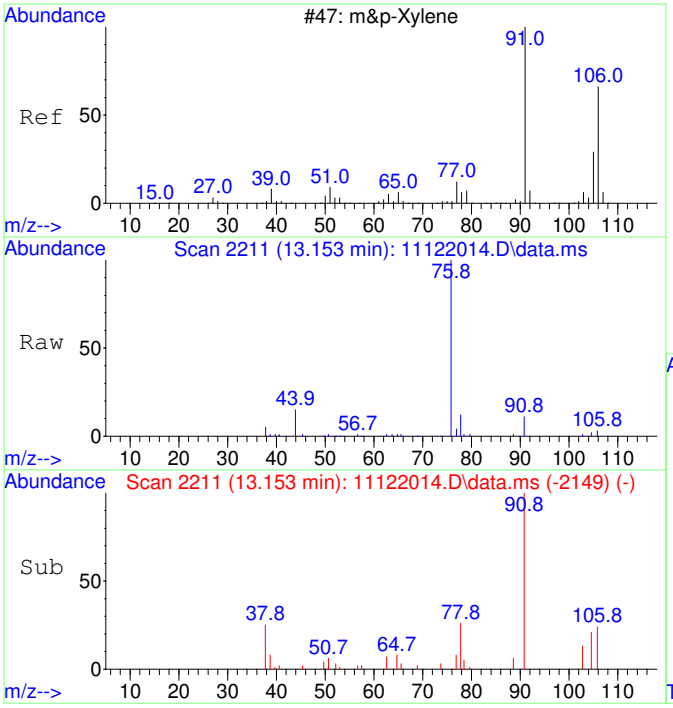


#42
Ethylbenzene SCAN
Concen: 81.37 ug/L
RT: 13.153 min Scan# 2211
Delta R.T. -0.008 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 8777

Ion	Ratio	Lower	Upper
91	100		
106	41.7	23.1	83.1
51	10.4	0.0	40.1

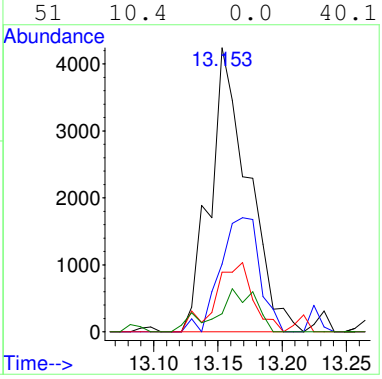


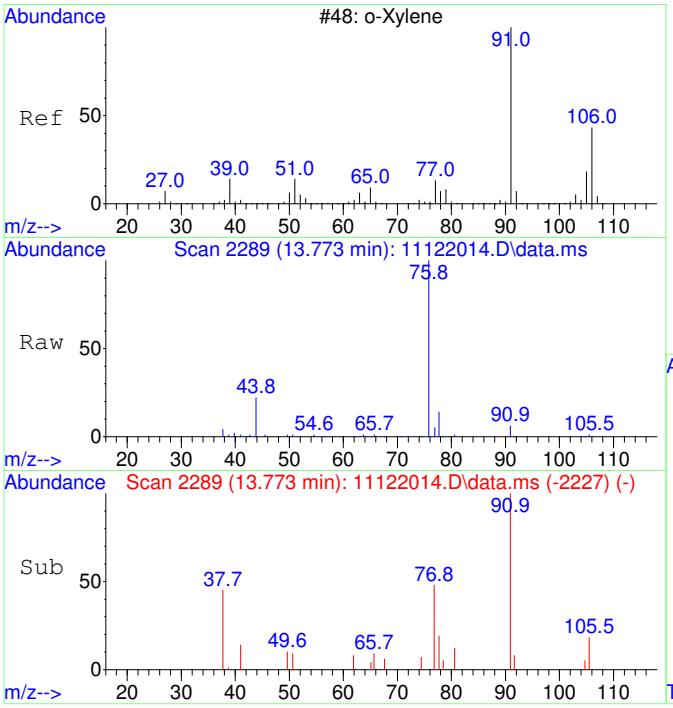


#43
m&p-Xylene SCAN
Concen: 81.37 ug/L
RT: 13.153 min Scan# 2211
Delta R.T. -0.008 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 8777

Ion	Ratio	Lower	Upper
91	100		
106	41.7	23.1	83.1
105	24.0	0.0	54.7
51	10.4	0.0	40.1

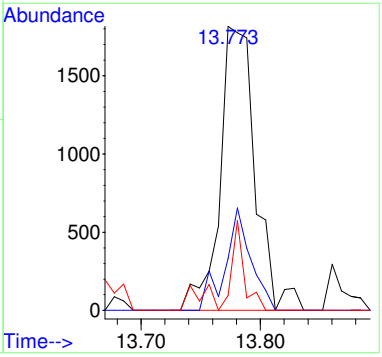


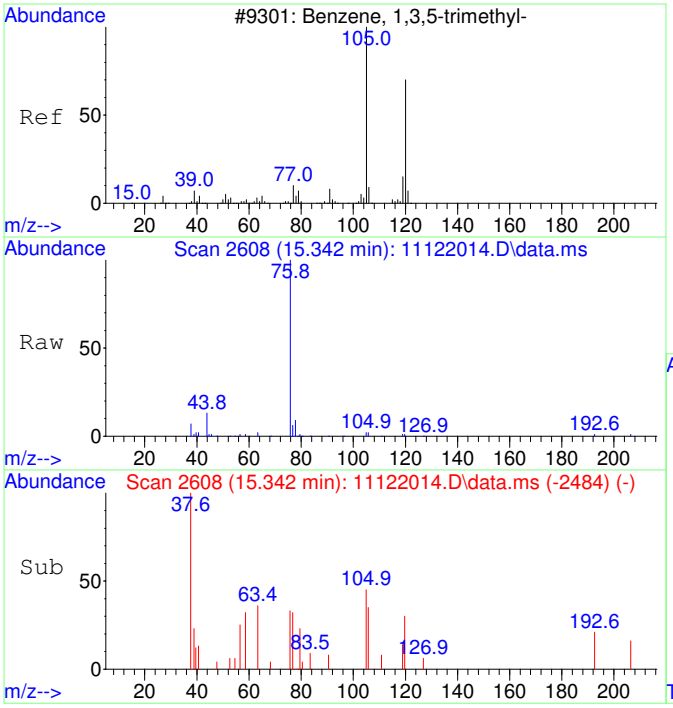


#44
o-Xylene SCAN
Concen: 65.24 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.008 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 3767

Ion	Ratio	Lower	Upper
91	100		
106	26.3	18.0	78.0
105	10.9	0.0	56.6

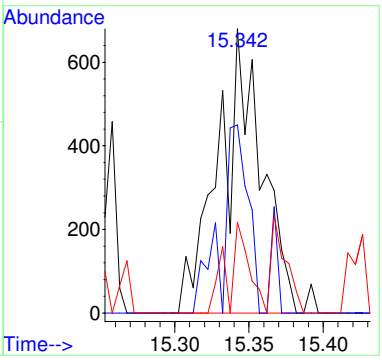


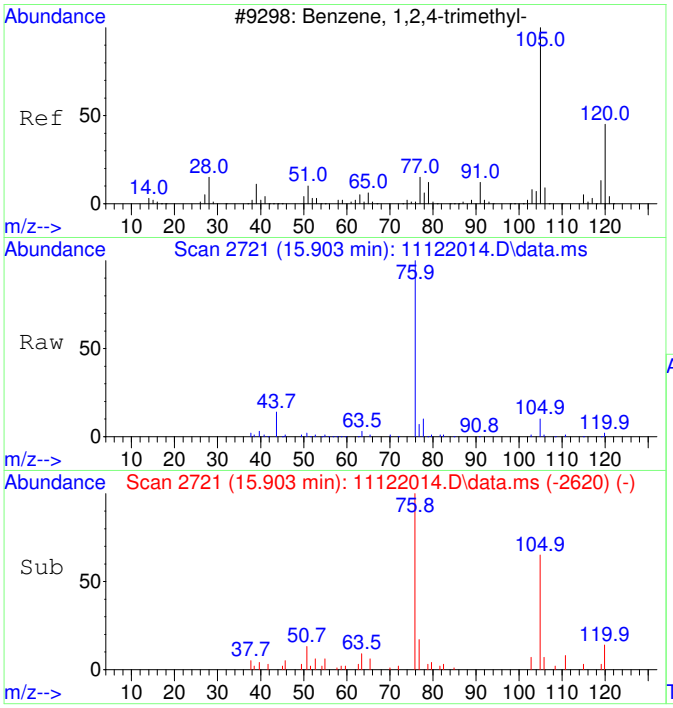


#46
1,3,5-Trimethylbenzene SCAN
Concen: 22.46 ug/L
RT: 15.342 min Scan# 2608
Delta R.T. -0.001 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:105 Resp: 1367

Ion	Ratio	Lower	Upper
105	100		
120	41.2	18.3	78.3
119	10.9	0.0	43.1

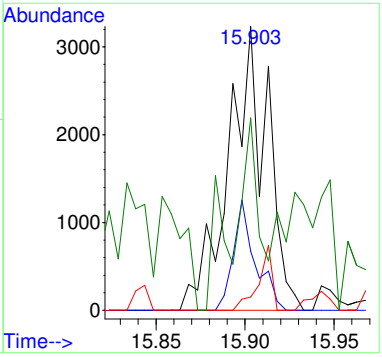




#47
1,2,4-Trimethylbenzene SCAN
Concen: 78.71 ug/L
RT: 15.903 min Scan# 2721
Delta R.T. 0.004 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:105 Resp: 4901

Ion	Ratio	Lower	Upper
105	100		
120	22.0	16.9	76.9
119	8.0	0.0	41.9
77	16.2	0.0	42.3



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Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122014.D
Acq On : 12 Nov 2020 13:36
InstName : AG5975C
Operator : TD
Sample : 2011015-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

M.I. Performed By:
TD at 1:56 pm, Nov 12, 2020

M.I. Approved By:
ZR at 2:22 pm, Nov 23, 2020

Quant Time: Nov 12 13:54:58 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

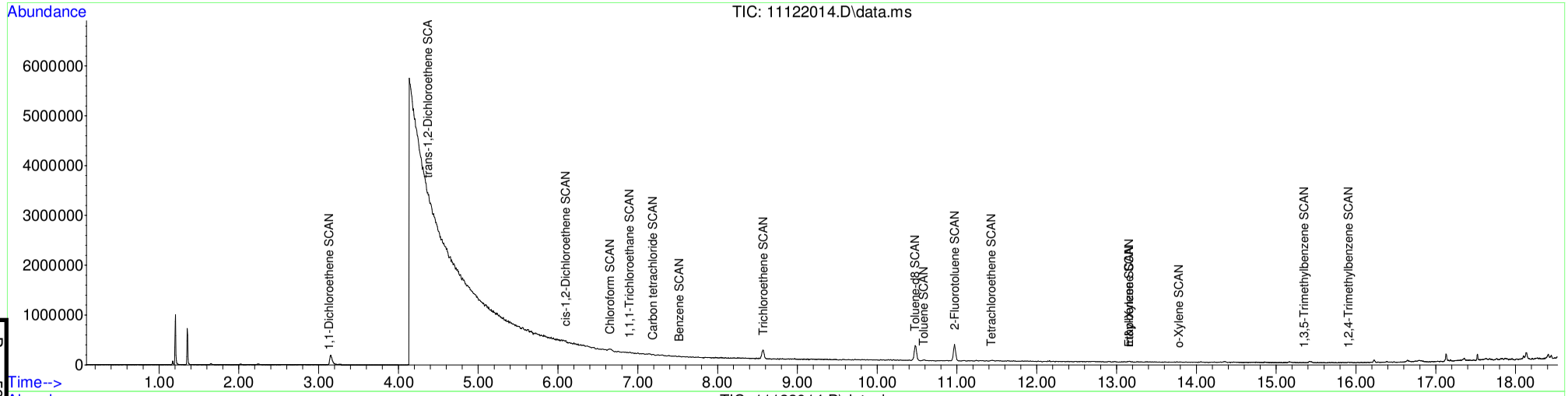
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	484965	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	412914	4349.34	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.99%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.093	61	1728m	89.23	ug/L	
3] trans-1,2-Dichloroethene	4.369	61	2267	101.32	ug/L	84
4] 1,1-Dichloroethane	5.079	63	2090	75.04	ug/L	69
5] cis-1,2-Dichloroethene	6.088	61	40016	1361.12	ug/L	98
6] Chloroform	6.652	83	66816	2220.44	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1308	40.03	ug/L	100
8] Carbon tetrachloride	7.175	117	1723	56.02	ug/L	98
9] Benzene	7.503	78	11878	144.15	ug/L	69
11] Trichloroethene	8.569	130	116199	4683.74	ug/L	93
13] Toluene	10.571	91	25190	208.12	ug/L	99
15] Tetrachloroethene	11.432	166	5499	156.99	ug/L	100
18] Ethylbenzene	12.972	91	6505	44.15	ug/L	95
19] m&p-Xylene	13.162	91	16533	143.58	ug/L	94
20] o-Xylene	13.782	91	5954	48.40	ug/L	97
23] 1,2,4-Trimethylbenzene	15.899	105	7006	51.51	ug/L	87
25) 2-Fluorotoluene SCAN	10.969	109	253768	5367.89	ug/L	99
26) 1,1-Dichloroethene SCAN	3.126	61	215	21.41	ug/L	93
27) trans-1,2-Dichloroethe...	4.368	61	1363	109.71	ug/L #	24
29) cis-1,2-Dichloroethene...	6.086	61	24589	1596.21	ug/L #	79
30) Chloroform SCAN	6.650	83	39976	2392.56	ug/L	93
31) 1,1,1-Trichloroethane ...	6.894	97	718	47.16	ug/L #	19
32) Carbon tetrachloride SCAN	7.186	117	1856	116.86	ug/L #	15
33) Benzene SCAN	7.514	78	20621	491.88	ug/L	96
35) Trichloroethene SCAN	8.568	130	59318	5148.80	ug/L	85
36) Toluene-d8 SCAN	10.475	98	227014	4910.15	ug/L	95
37) Toluene SCAN	10.580	91	13193	222.82	ug/L	97
39) Tetrachloroethene SCAN	11.430	166	3447	242.32	ug/L #	54
42) Ethylbenzene SCAN	13.153	91	8777	81.37	ug/L	86
43) m&p-Xylene SCAN	13.153	91	8777	81.37	ug/L	90
44) o-Xylene SCAN	13.773	91	3767	65.24	ug/L	68
46) 1,3,5-Trimethylbenzene...	15.342	105	1367	22.46	ug/L	91
47) 1,2,4-Trimethylbenzene...	15.903	105	4901	78.71	ug/L	72

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122014.D
Acq On : 12 Nov 2020 13:36
InstName : AG5975C
Operator : TD
Sample : 2011015-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 12 13:54:58 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



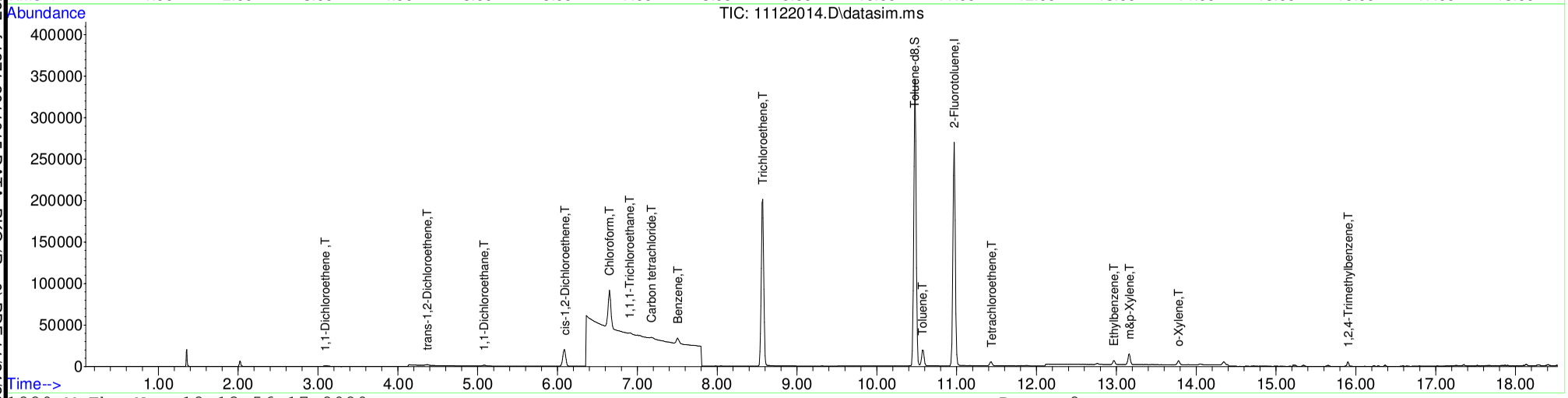
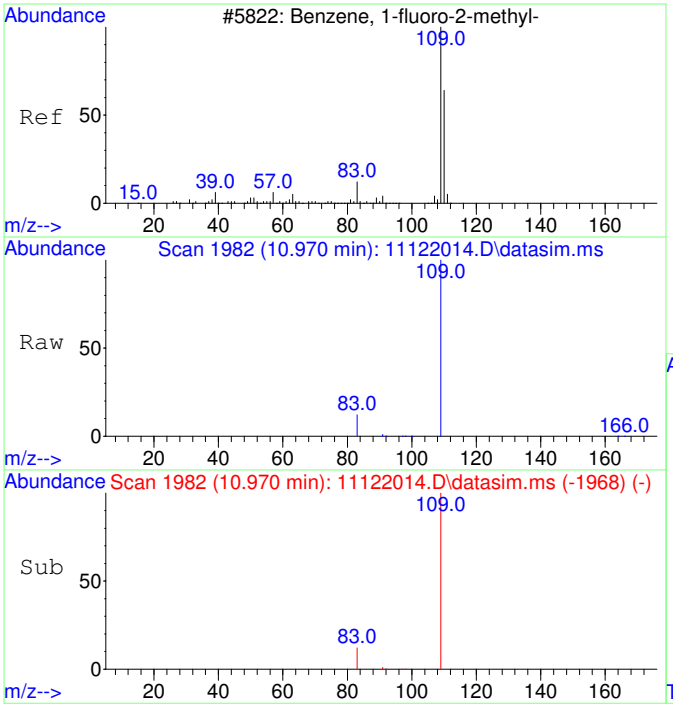


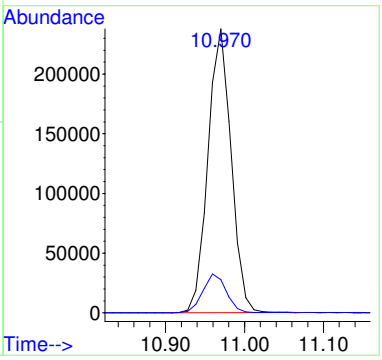
Table of Contents

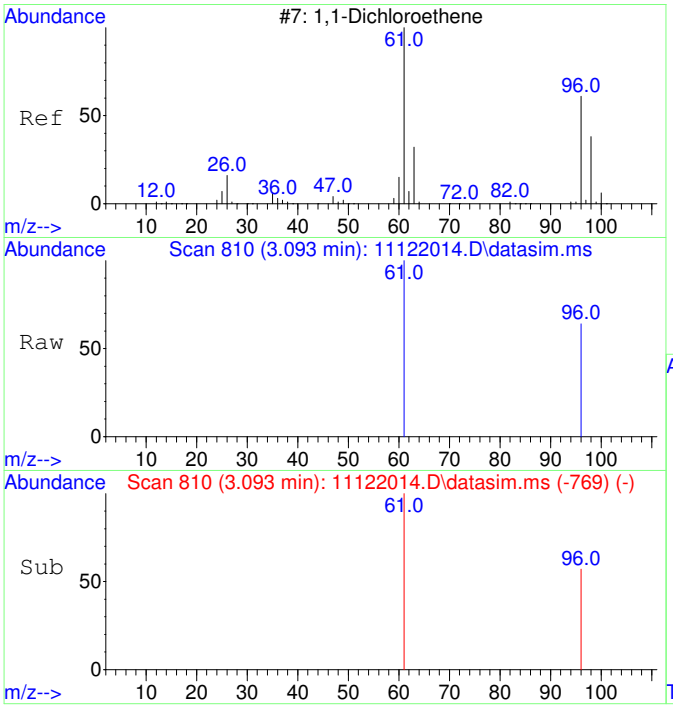


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:109 Resp: 484965

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

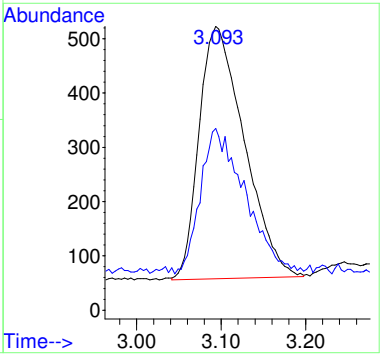


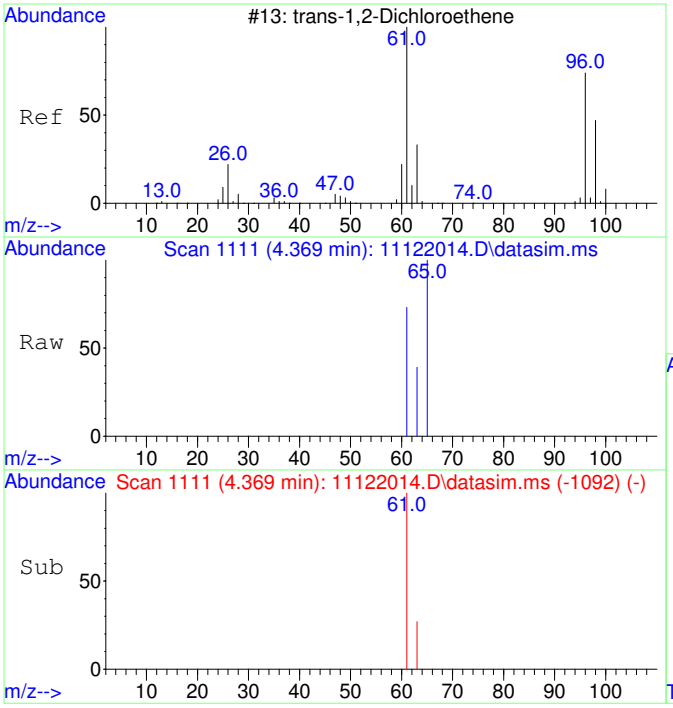


#2
1,1-Dichloroethene
Concen: 89.23 ug/L m
RT: 3.093 min Scan# 810
Delta R.T. 0.004 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 61 Resp: 1728

Ion	Ratio	Lower	Upper
61	100		
96	74.2	37.2	97.2

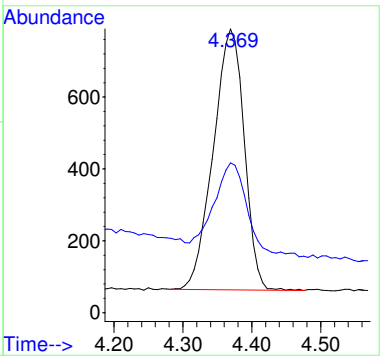


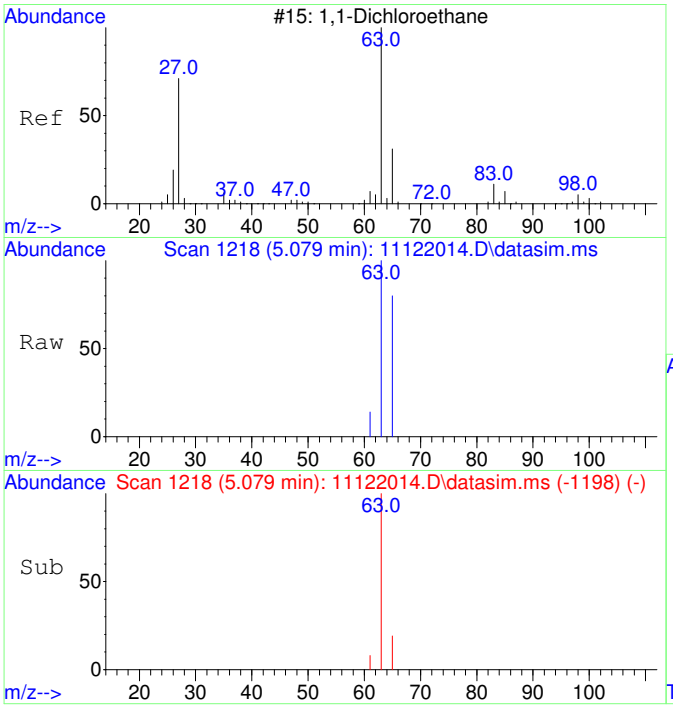


#3
trans-1,2-Dichloroethene
Concen: 101.32 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. -0.027 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 61 Resp: 2267

Ion	Ratio	Lower	Upper
61	100		
63	41.1	2.4	62.4

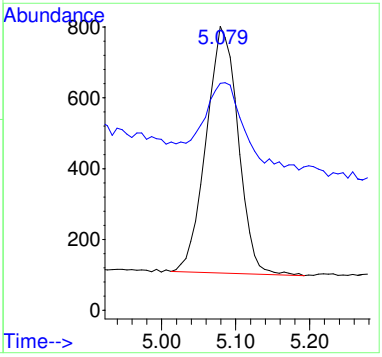


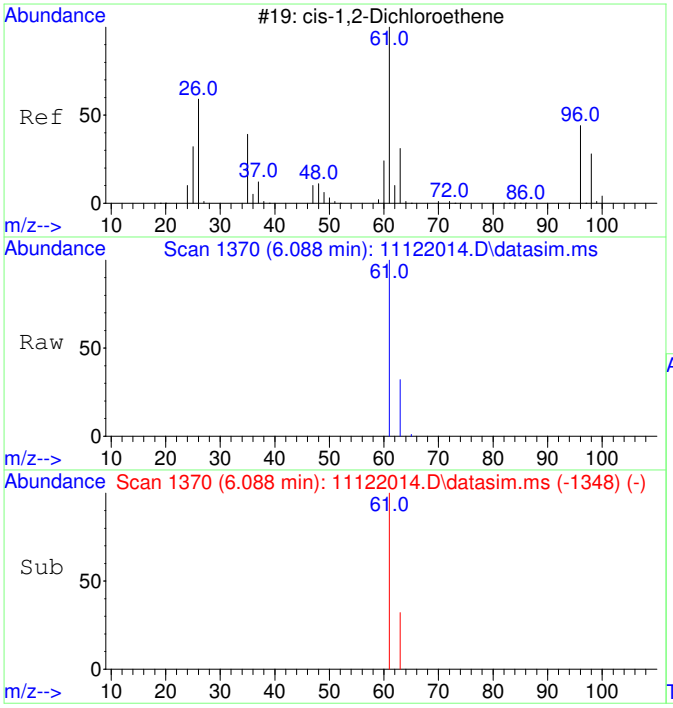


#4
1,1-Dichloroethane
Concen: 75.04 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 63 Resp: 2090

Ion	Ratio	Lower	Upper
63	100		
65	49.0	1.8	61.8

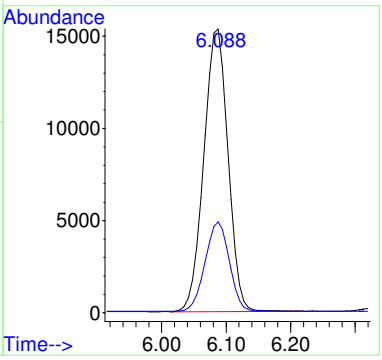


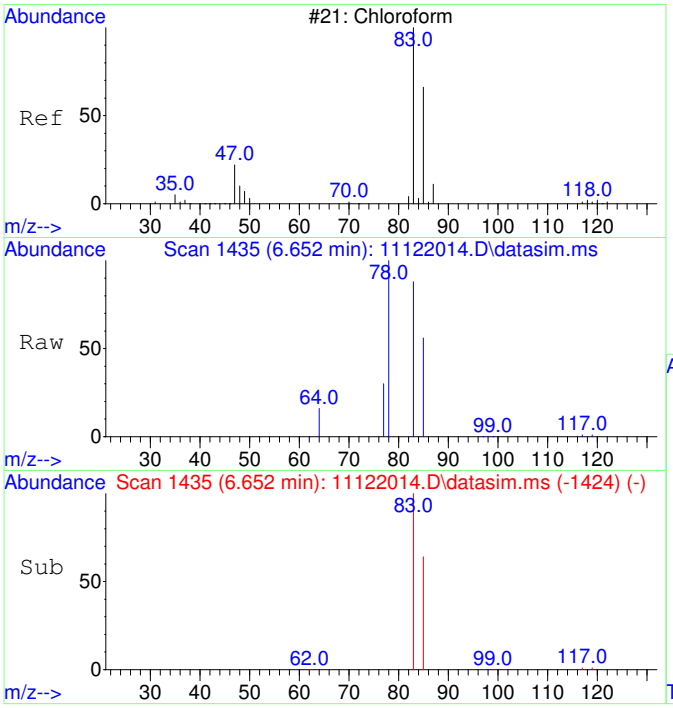


#5
cis-1,2-Dichloroethene
Concen: 1361.12 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 61 Resp: 40016

Ion	Ratio	Lower	Upper
61	100		
63	31.5	2.5	62.5

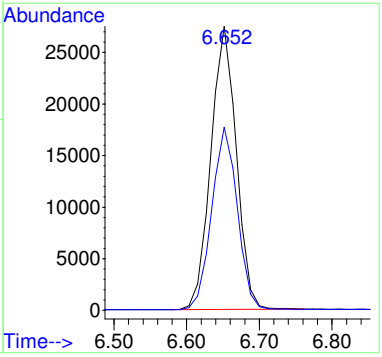


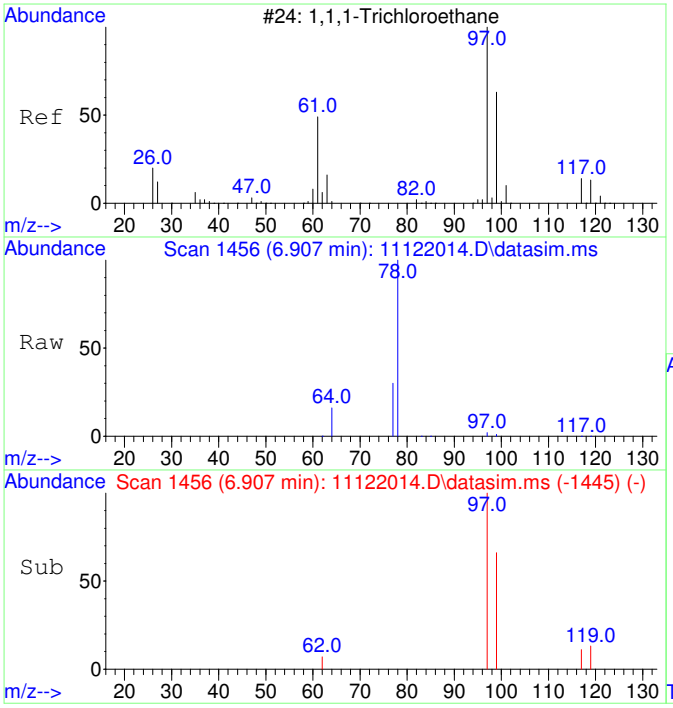


#6
Chloroform
Concen: 2220.44 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 83 Resp: 66816

Ion	Ratio	Lower	Upper
83	100		
85	64.4	35.1	95.1

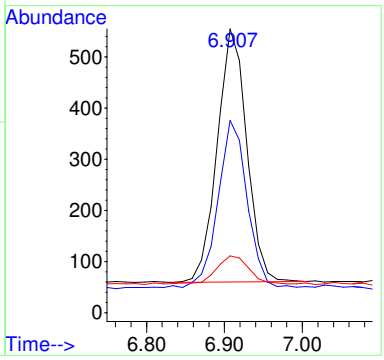


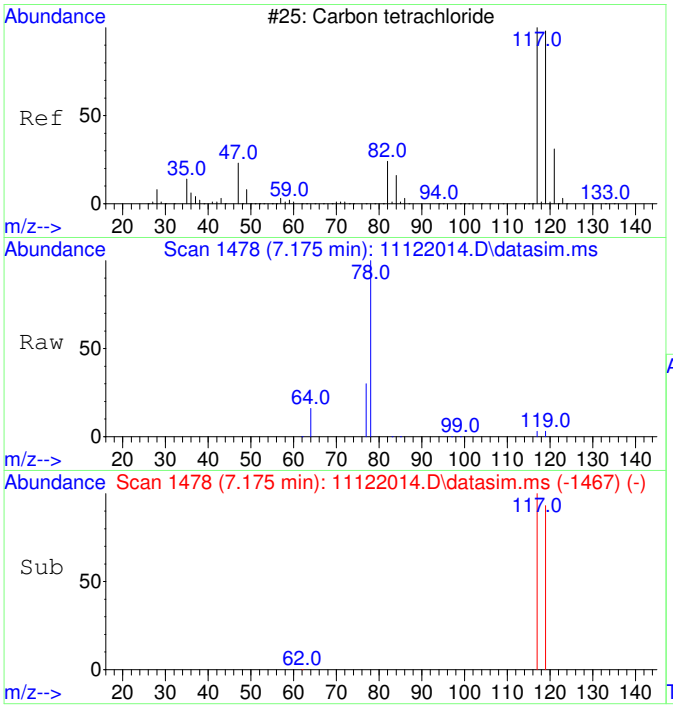


#7
1,1,1-Trichloroethane
Concen: 40.03 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 97 Resp: 1308

Ion	Ratio	Lower	Upper
97	100		
99	64.5	34.6	94.6
117	13.1	0.0	43.2

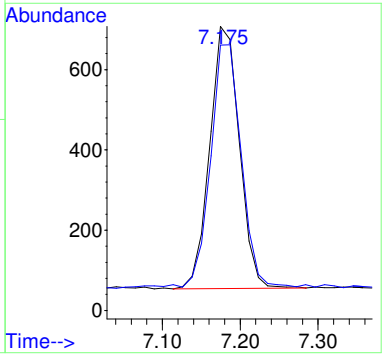


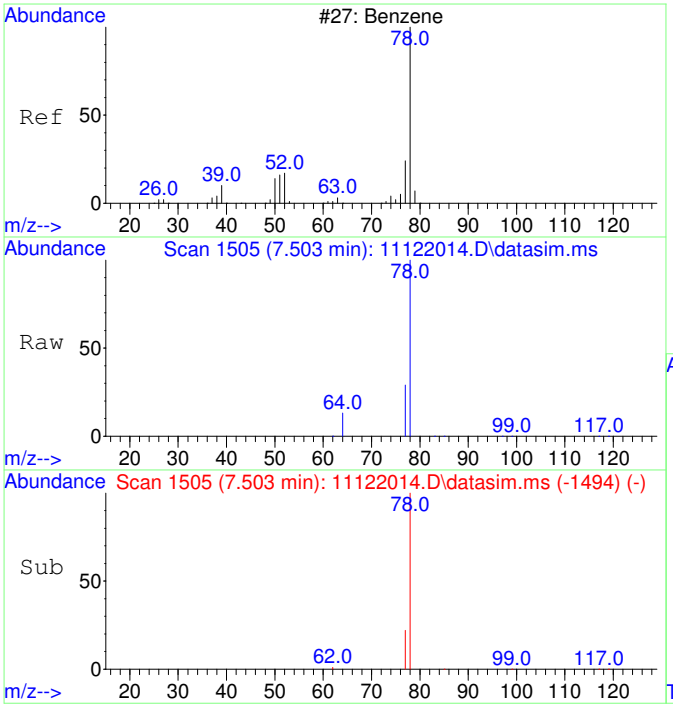


#8
Carbon tetrachloride
Concen: 56.02 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:117 Resp: 1723

Ion	Ratio	Lower	Upper
117	100		
119	94.5	66.4	126.4

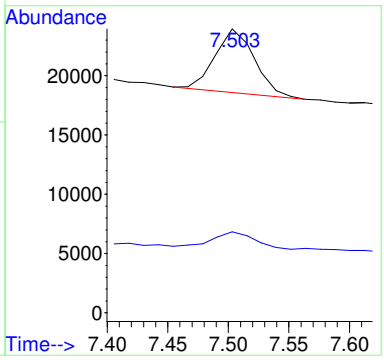


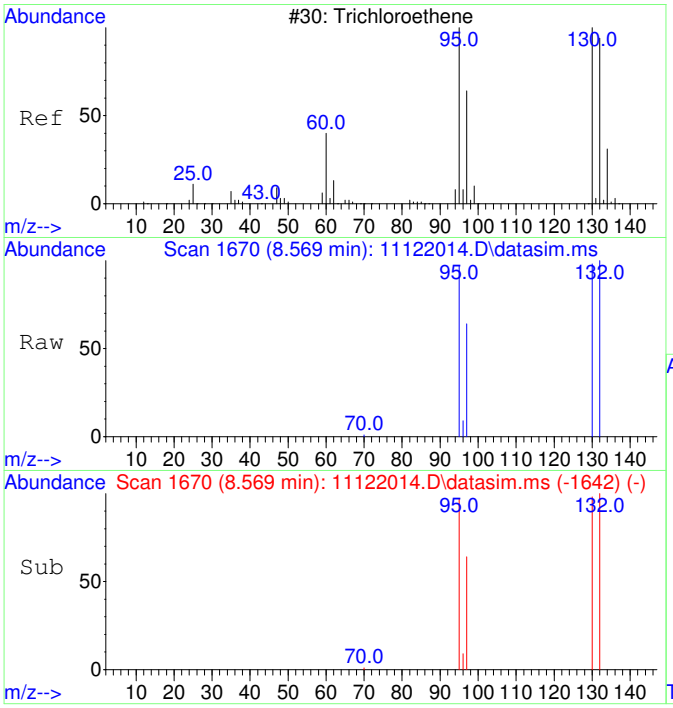


#9
Benzene
Concen: 144.15 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 78 Resp: 11878

Ion	Ratio	Lower	Upper
78	100		
77	38.5	0.0	53.2

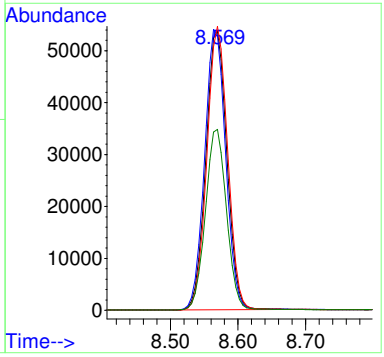


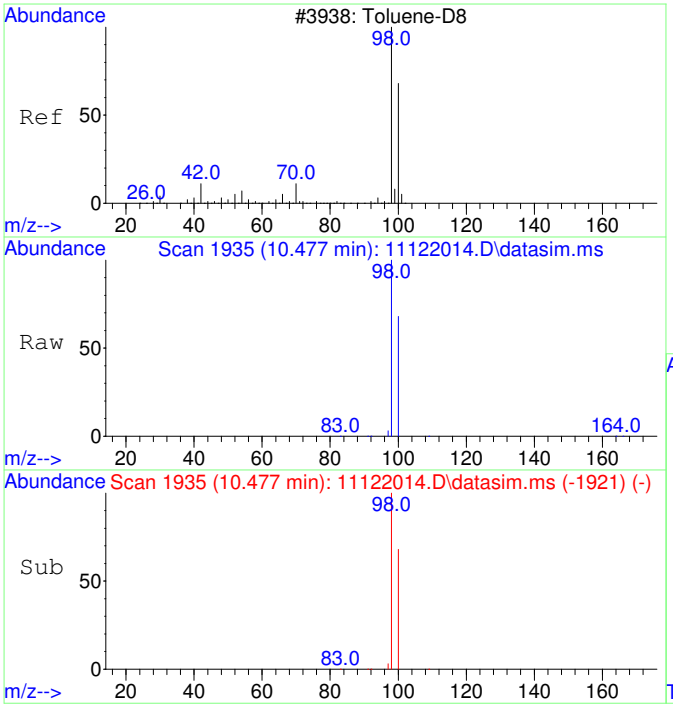


#11
Trichloroethene
Concen: 4683.74 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:130 Resp: 116199

Ion	Ratio	Lower	Upper
130	100		
95	100.5	60.7	120.7
132	100.3	76.0	116.0
97	64.7	38.6	78.6

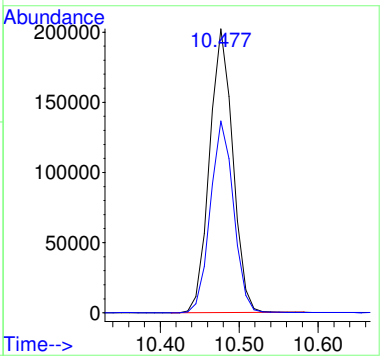


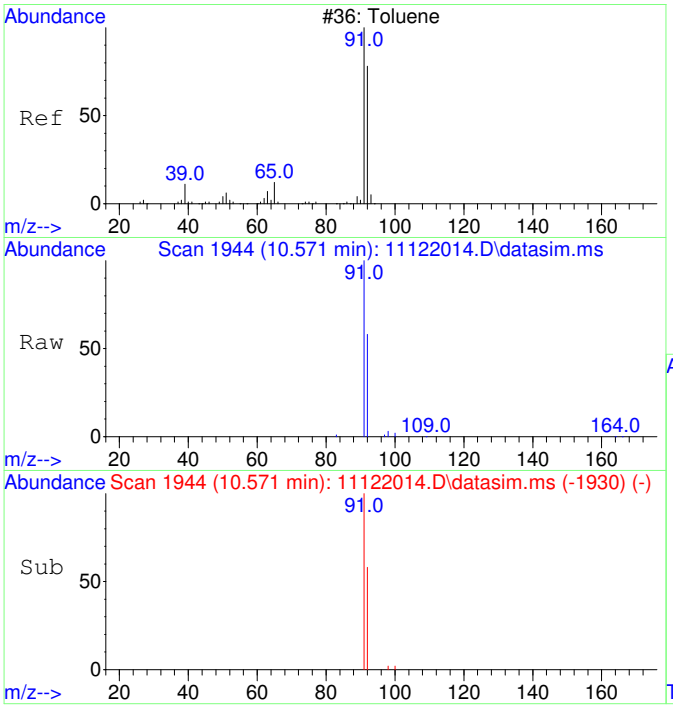


#12
Toluene-d8
Concen: 4349.34 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 98 Resp: 412914

Ion	Ratio	Lower	Upper
98	100		
100	67.3	37.1	97.1

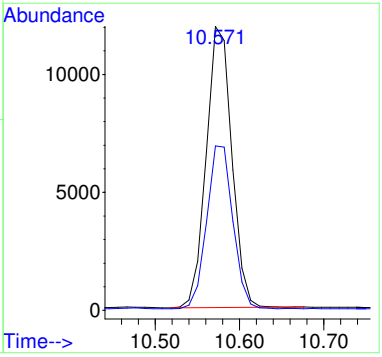


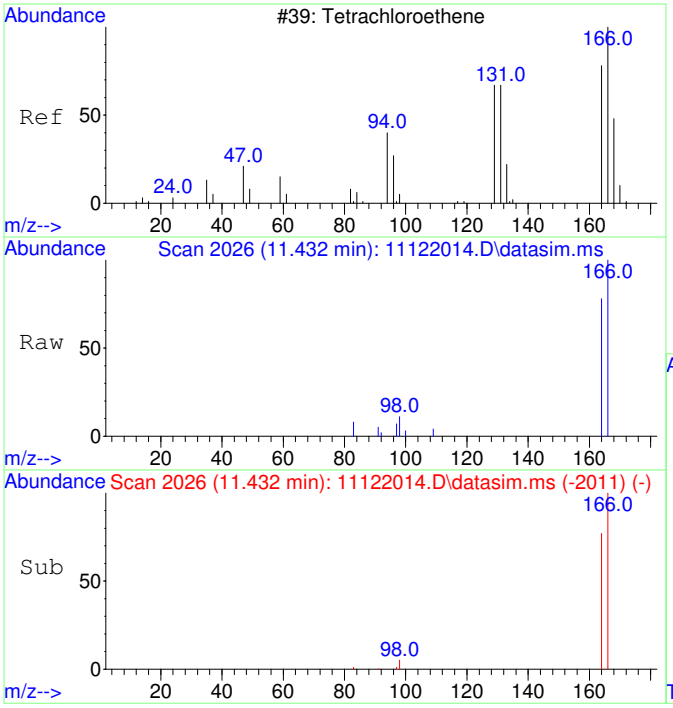


#13
Toluene
Concen: 208.12 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 25190

Ion	Ratio	Lower	Upper
91	100		
92	59.1	29.9	89.9

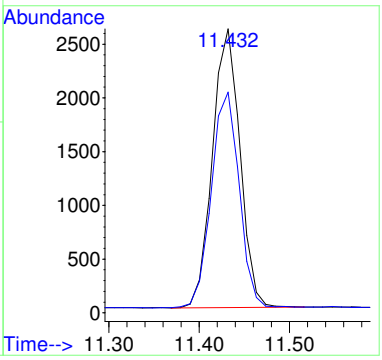


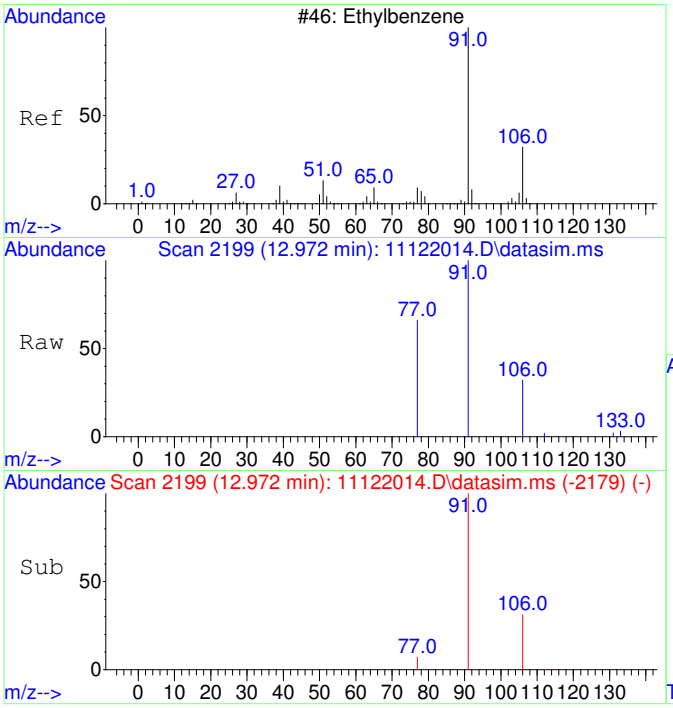


#15
Tetrachloroethene
Concen: 156.99 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:166 Resp: 5499

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

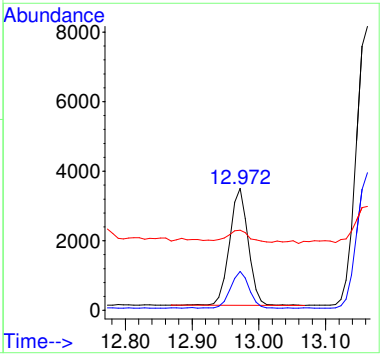


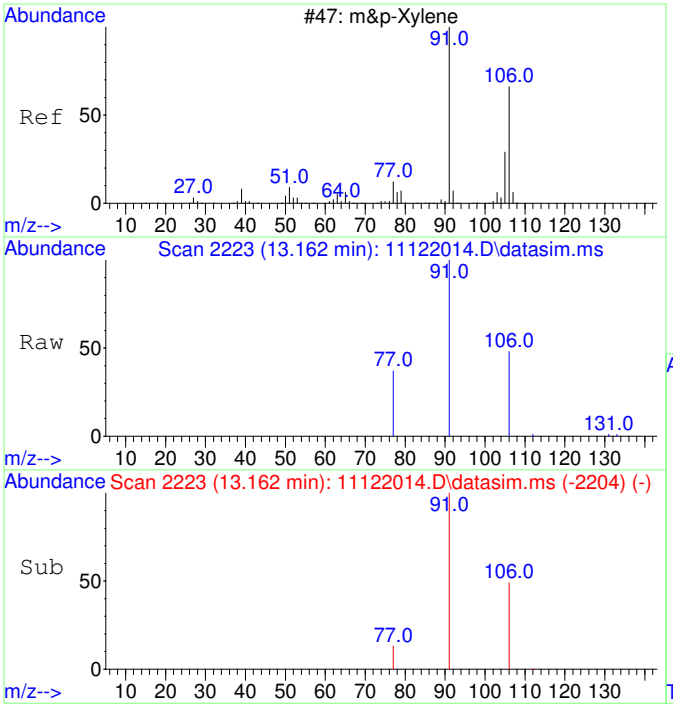


#18
Ethylbenzene
Concen: 44.15 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 6505

Ion	Ratio	Lower	Upper
91	100		
106	31.2	3.0	63.0
77	12.6	0.0	38.2

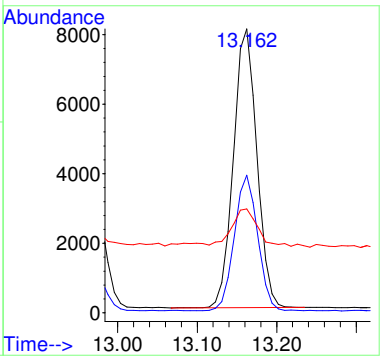


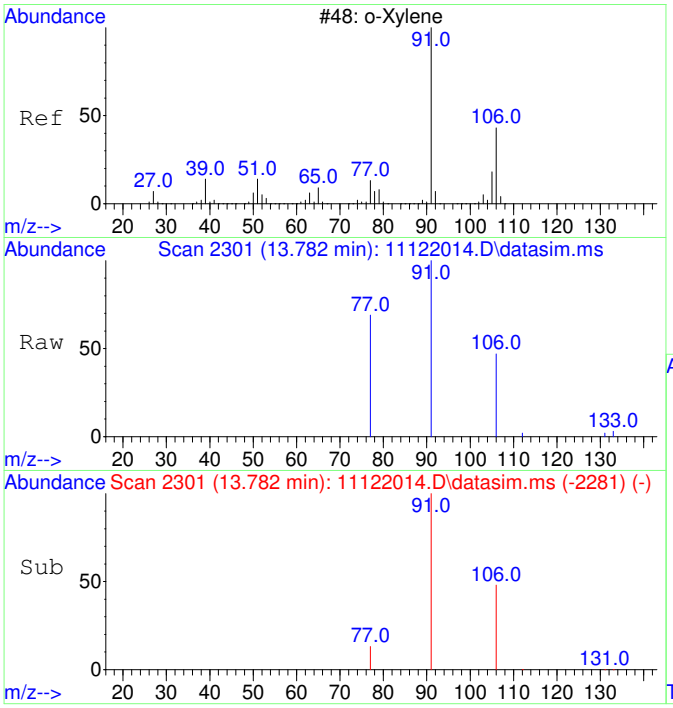


#19
m&p-Xylene
Concen: 143.58 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 16533

Ion	Ratio	Lower	Upper
91	100		
106	48.5	22.2	82.2
77	15.7	0.0	42.4

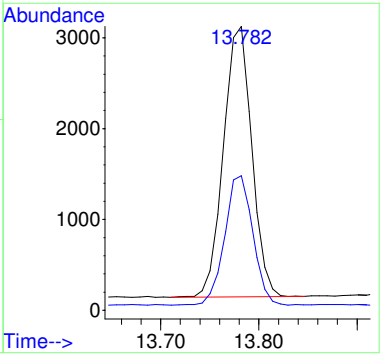


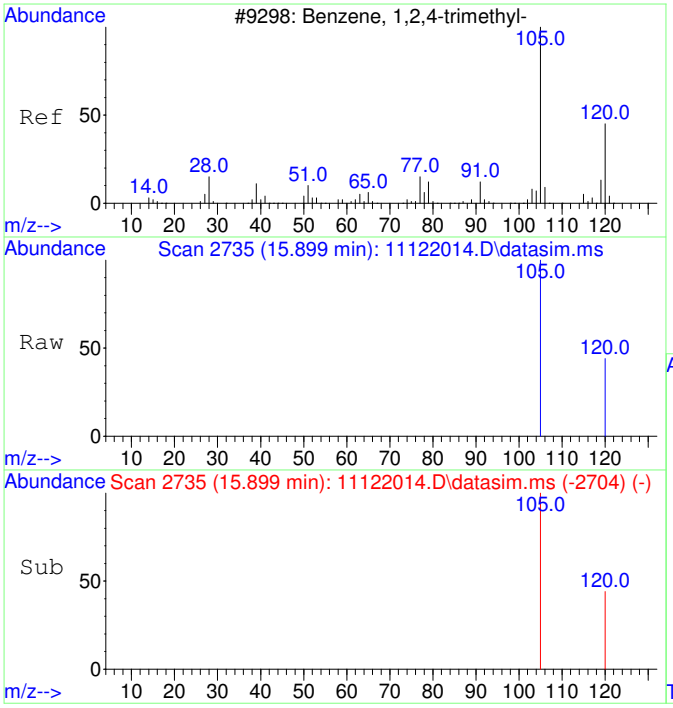


#20
o-Xylene
Concen: 48.40 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 5954

Ion	Ratio	Lower	Upper
91	100		
106	47.4	19.2	79.2

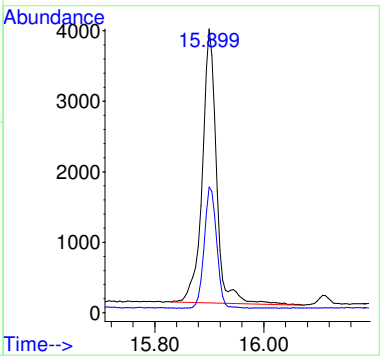


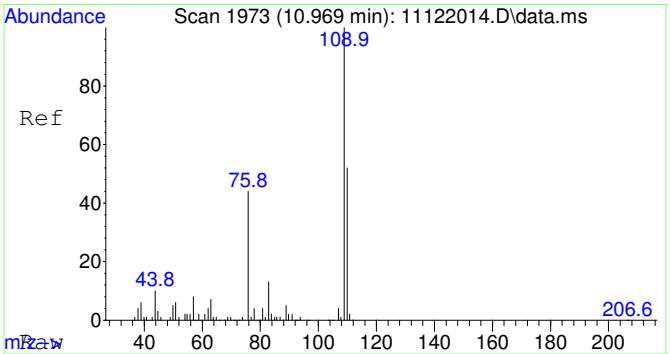


#23
1,2,4-Trimethylbenzene
Concen: 51.51 ug/L
RT: 15.899 min Scan# 2735
Delta R.T. 0.004 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:105 Resp: 7006

Ion	Ratio	Lower	Upper
105	100		
120	38.6	17.2	77.2

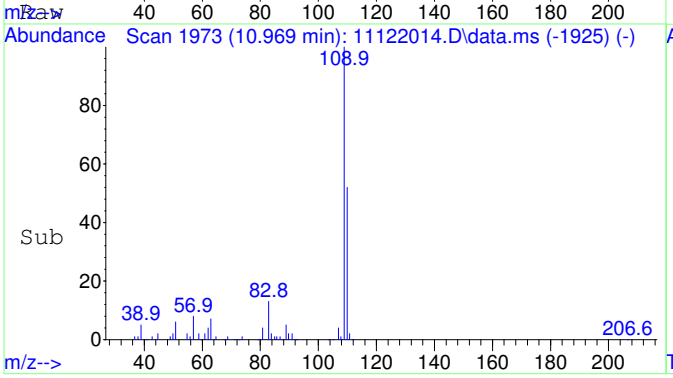


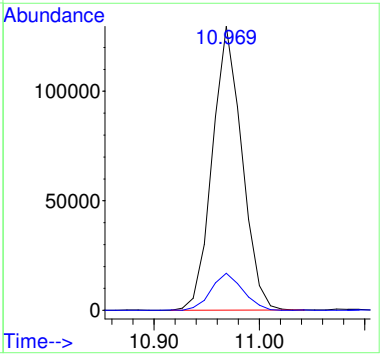


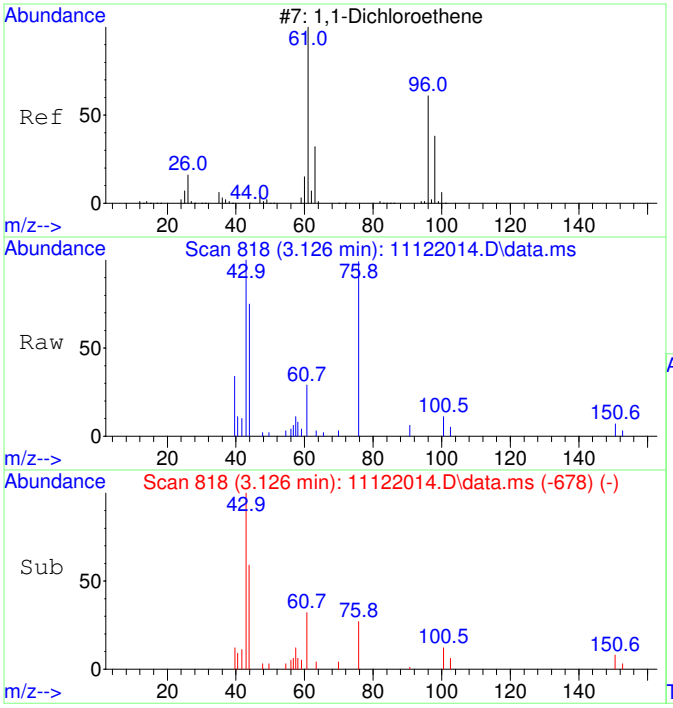
#25
2-Fluorotoluene SCAN
Concen: 5367.89 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:109 Resp: 253768

Ion	Ratio	Lower	Upper
109	100		
83	14.1	0.0	43.8



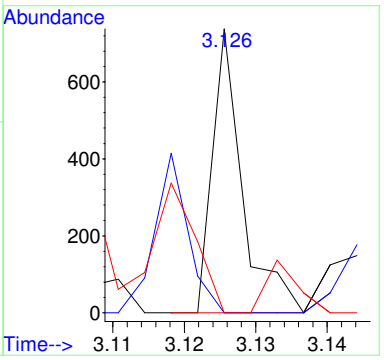


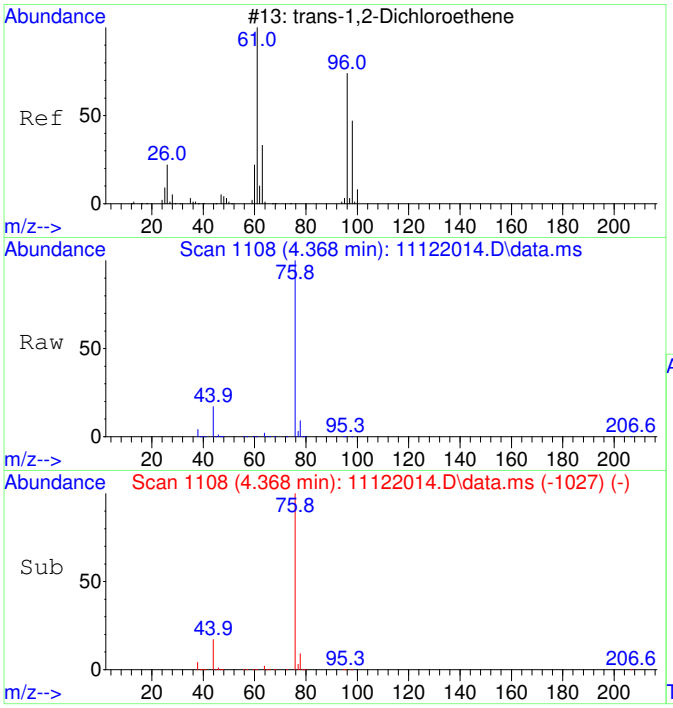


#26
1,1-Dichloroethene SCAN
Concen: 21.41 ug/L
RT: 3.126 min Scan# 818
Delta R.T. 0.019 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 61 Resp: 215

Ion	Ratio	Lower	Upper
61	100		
96	62.3	33.1	93.1
98	52.1	11.2	71.2

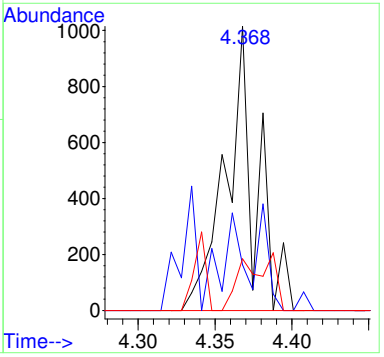


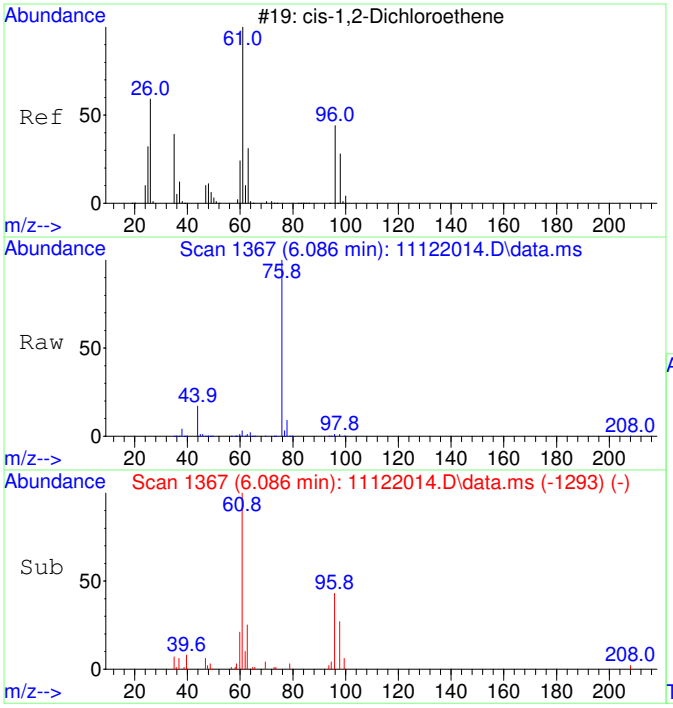


#27
trans-1,2-Dichloroethene SCAN
Concen: 109.71 ug/L
RT: 4.368 min Scan# 1108
Delta R.T. -0.033 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 61 Resp: 1363

Ion	Ratio	Lower	Upper
61	100		
96	10.9	49.0	109.0#
98	0.0	20.5	80.5#

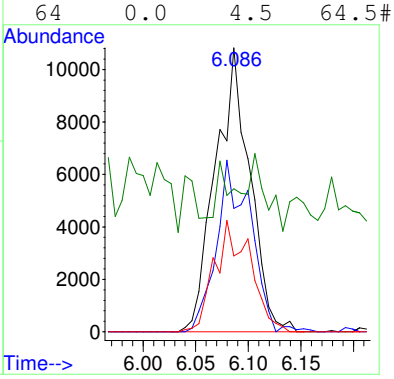


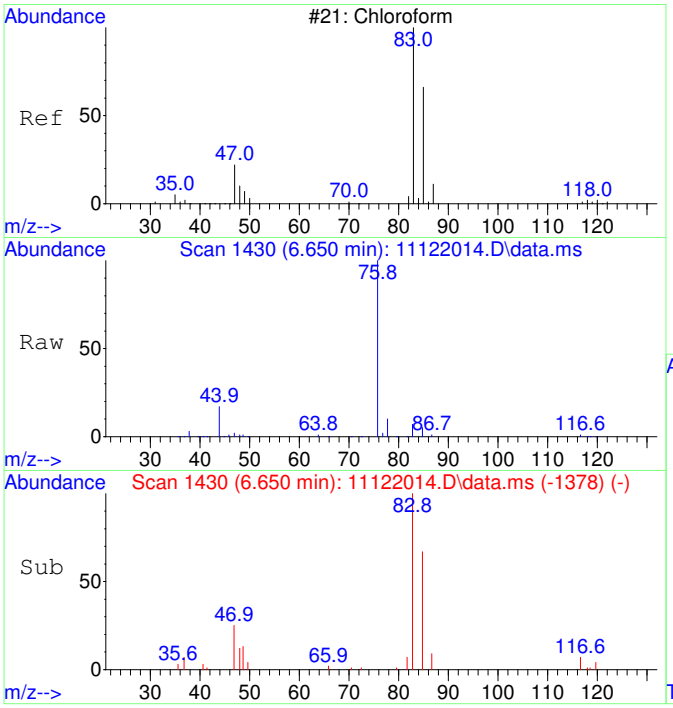


#29
cis-1,2-Dichloroethene SCAN
Concen: 1596.21 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 61 Resp: 24589

Ion	Ratio	Lower	Upper
61	100		
96	60.1	39.9	99.9
98	40.6	13.5	73.5
64	0.0	4.5	64.5#

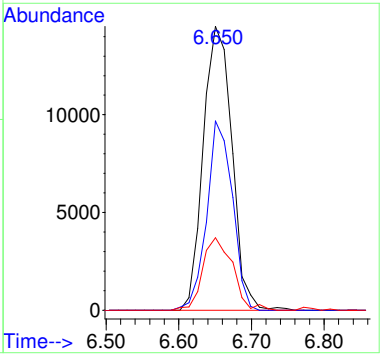


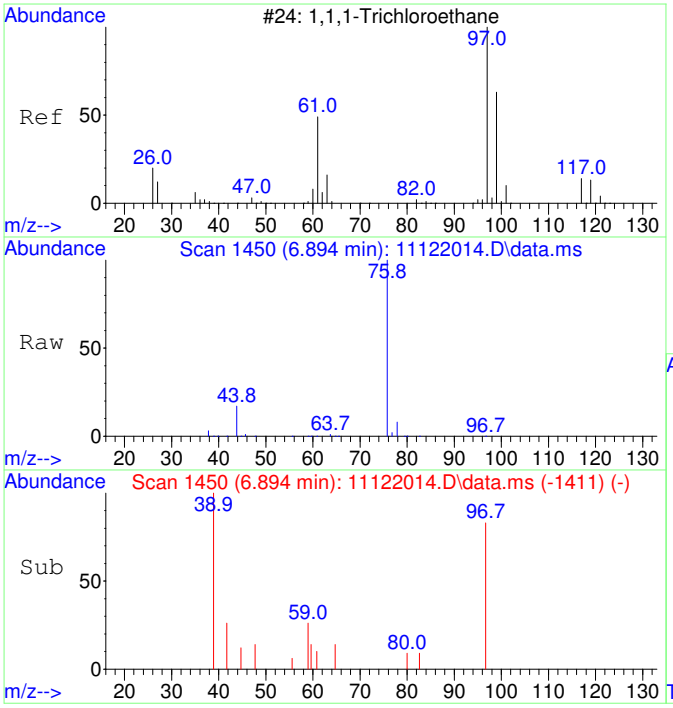


#30
Chloroform SCAN
Concen: 2392.56 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 83 Resp: 39976

Ion	Ratio	Lower	Upper
83	100		
85	59.5	34.6	94.6
47	26.7	0.0	53.4

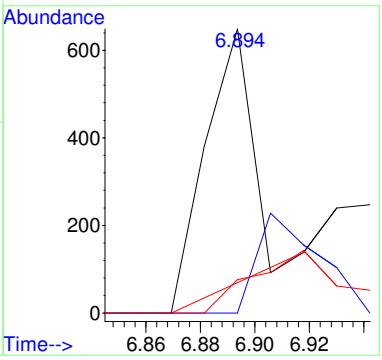


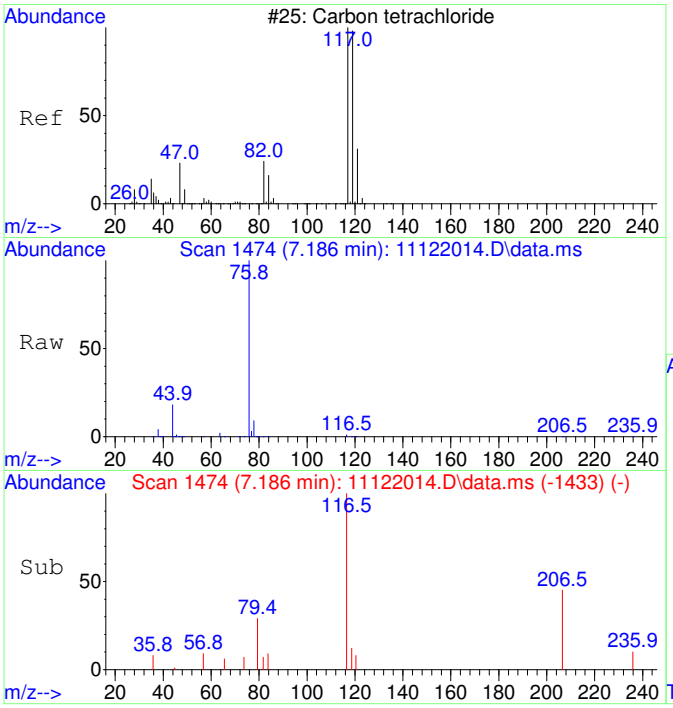


#31
1,1,1-Trichloroethane SCAN
Concen: 47.16 ug/L
RT: 6.894 min Scan# 1450
Delta R.T. -0.024 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 97 Resp: 718

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

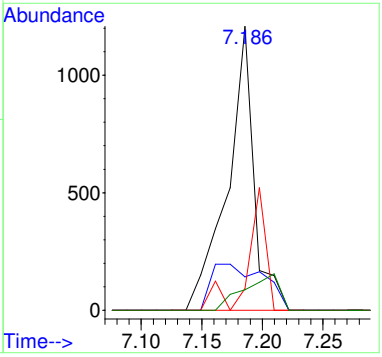


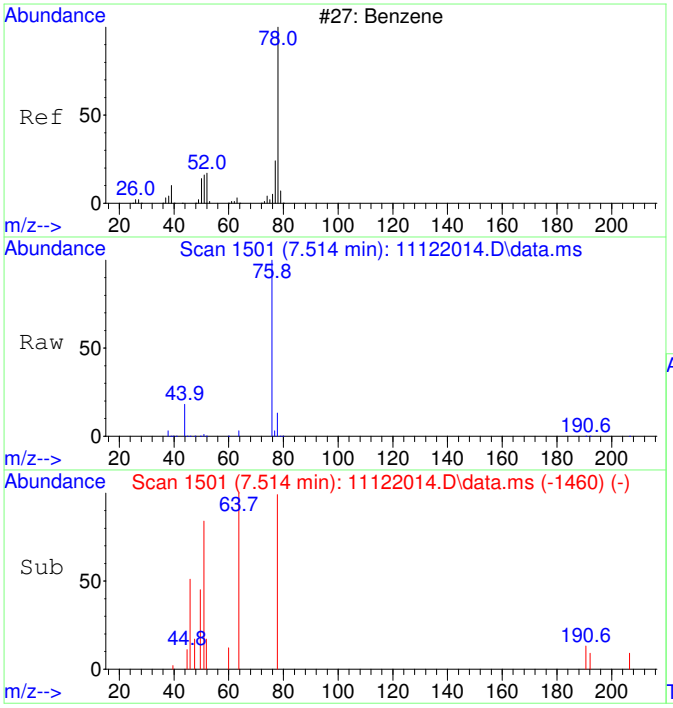


#32
Carbon tetrachloride SCAN
Concen: 116.86 ug/L
RT: 7.186 min Scan# 1474
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:117 Resp: 1856

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

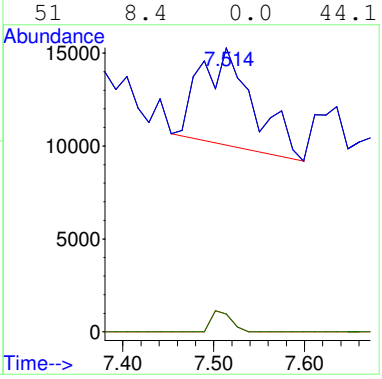


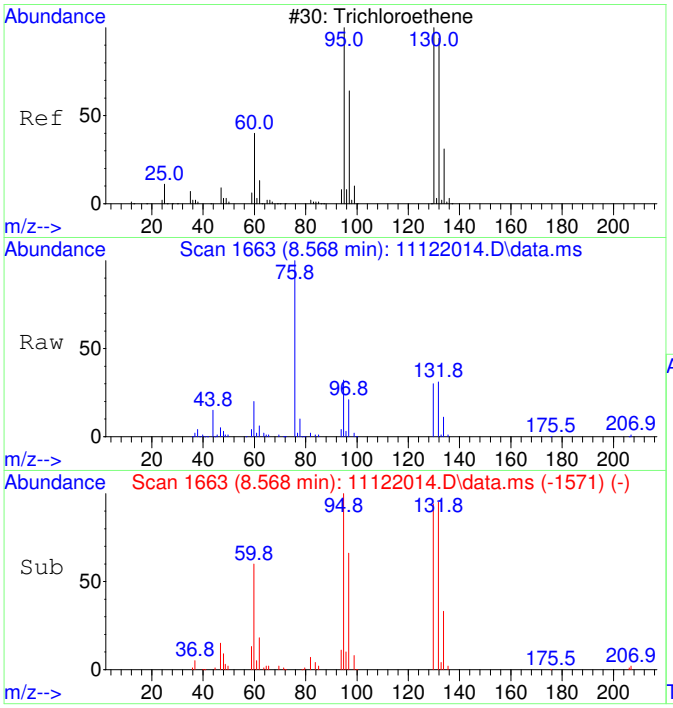


#33
Benzene SCAN
Concen: 491.88 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 78 Resp: 20621

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.4	0.0	47.9
51	8.4	0.0	44.1

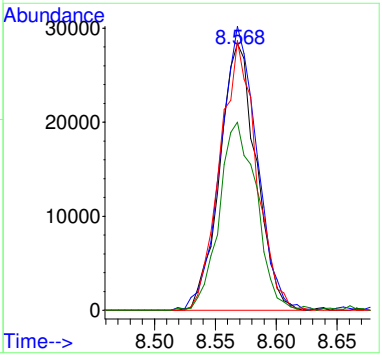


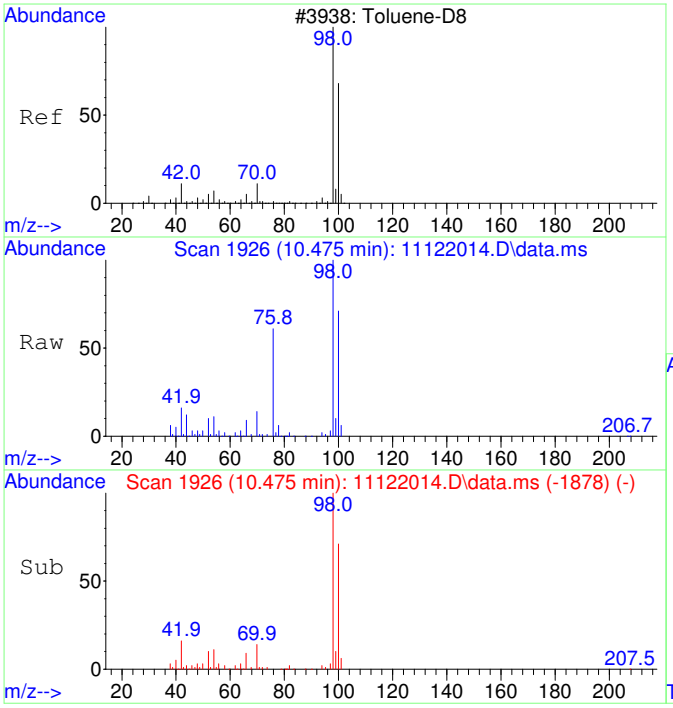


#35
Trichloroethene SCAN
Concen: 5148.80 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:130 Resp: 59318

Ion	Ratio	Lower	Upper
130	100		
95	106.3	60.5	120.5
132	100.3	59.6	119.6
97	72.1	28.2	88.2

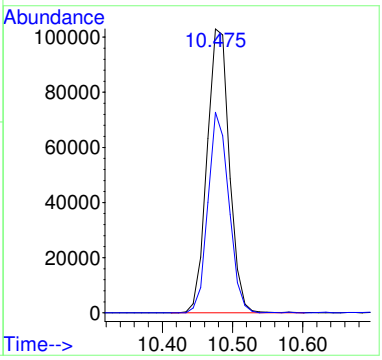


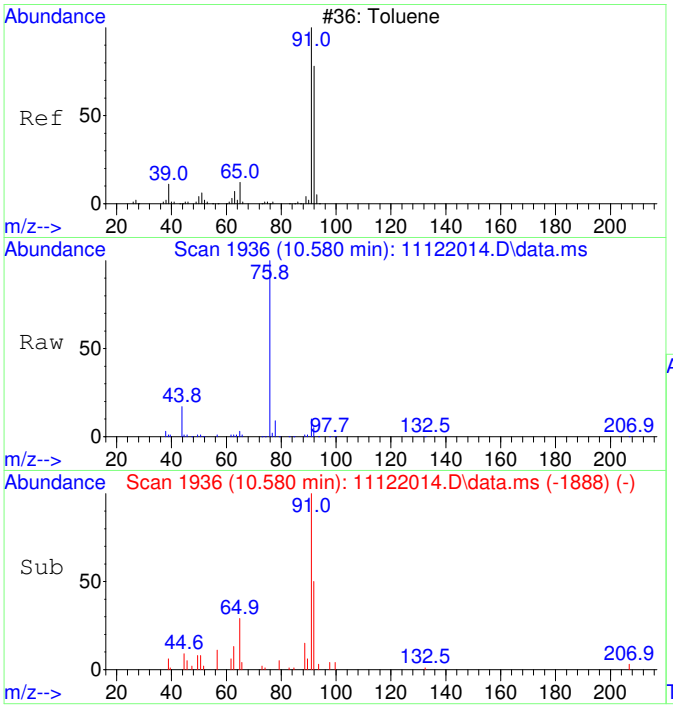


#36
Toluene-d8 SCAN
Concen: 4910.15 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 98 Resp: 227014

Ion	Ratio	Lower	Upper
98	100		
100	65.9	40.0	100.0

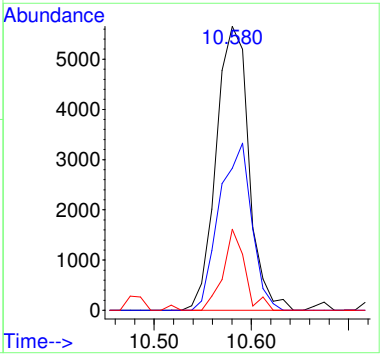


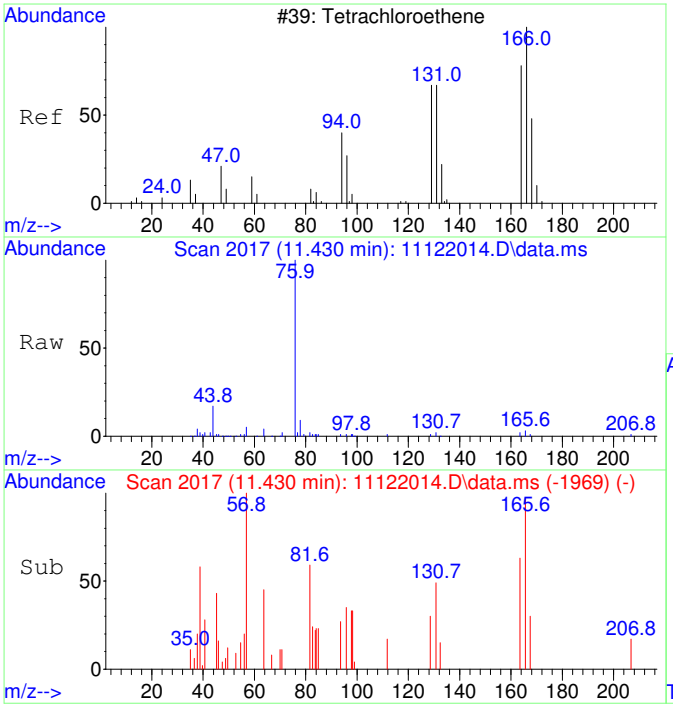


#37
Toluene SCAN
Concen: 222.82 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 13193

Ion	Ratio	Lower	Upper
91	100		
92	58.4	28.3	88.3
65	18.9	0.0	41.0

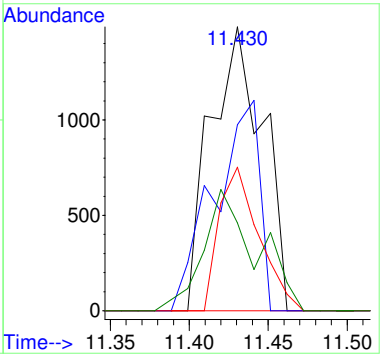


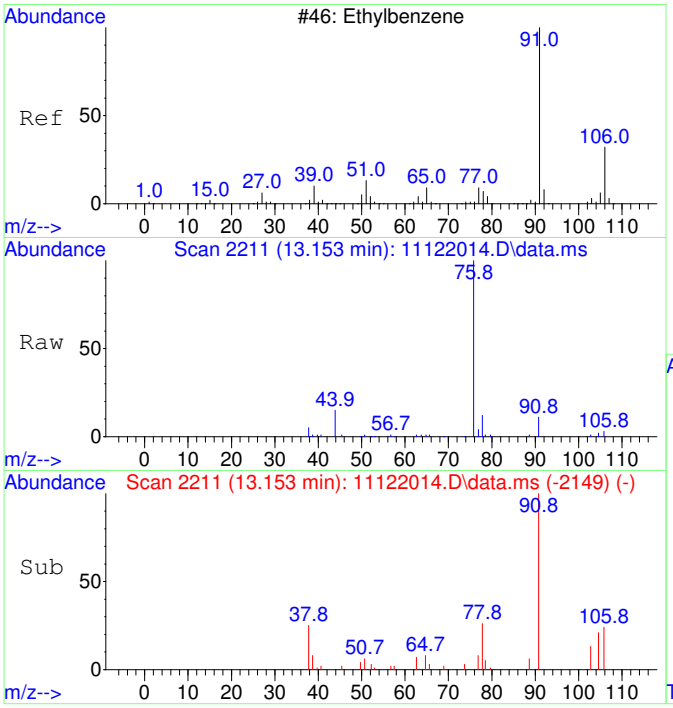


#39
Tetrachloroethene SCAN
Concen: 242.32 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:166 Resp: 3447

Ion	Ratio	Lower	Upper
166	100		
164	64.0	50.9	110.9
131	38.5	38.7	98.7#
129	0.0	41.8	101.8#

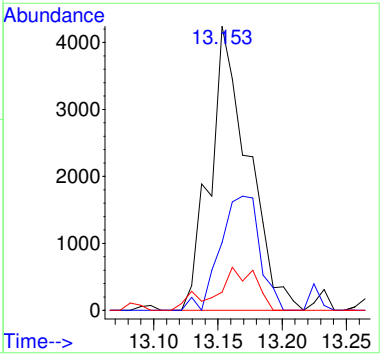


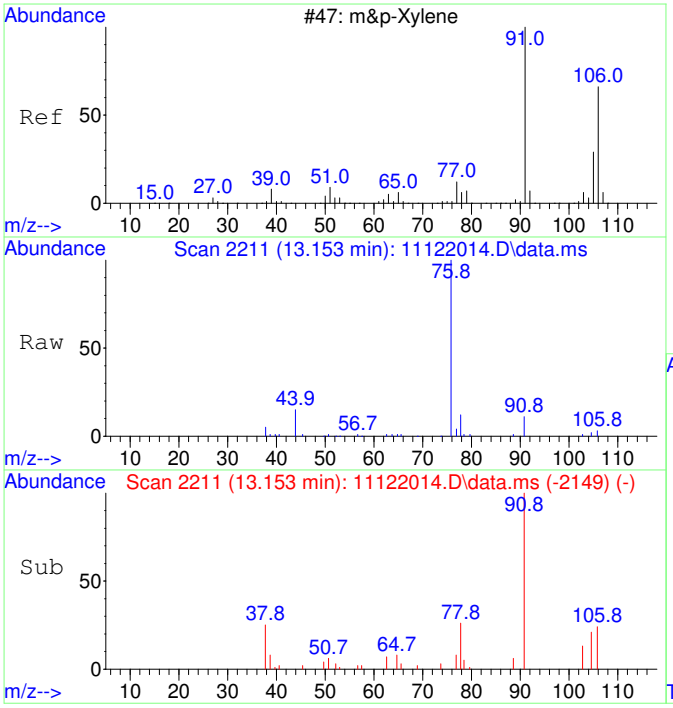


#42
Ethylbenzene SCAN
Concen: 81.37 ug/L
RT: 13.153 min Scan# 2211
Delta R.T. -0.008 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 8777

Ion	Ratio	Lower	Upper
91	100		
106	41.7	23.1	83.1
51	10.4	0.0	40.1

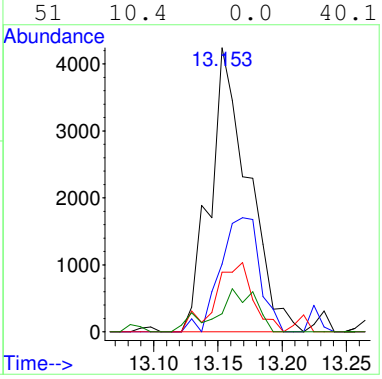


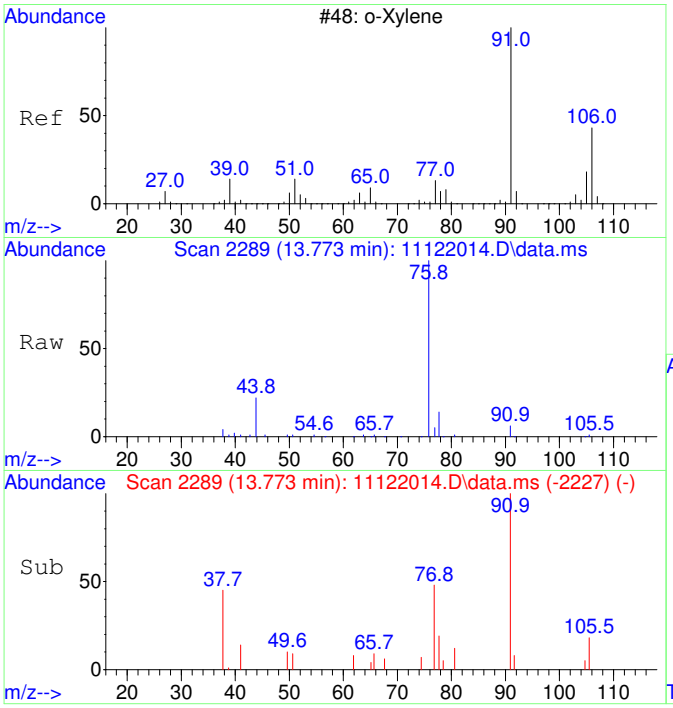


#43
m&p-Xylene SCAN
Concen: 81.37 ug/L
RT: 13.153 min Scan# 2211
Delta R.T. -0.008 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 8777

Ion	Ratio	Lower	Upper
91	100		
106	41.7	23.1	83.1
105	24.0	0.0	54.7
51	10.4	0.0	40.1

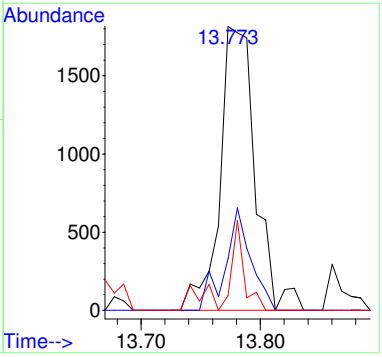


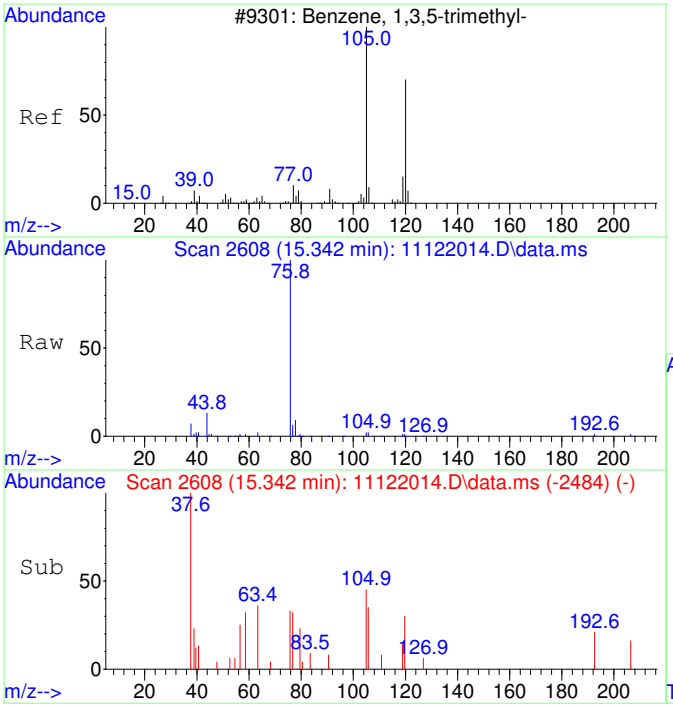


#44
o-Xylene SCAN
Concen: 65.24 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.008 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion: 91 Resp: 3767

Ion	Ratio	Lower	Upper
91	100		
106	26.3	18.0	78.0
105	10.9	0.0	56.6

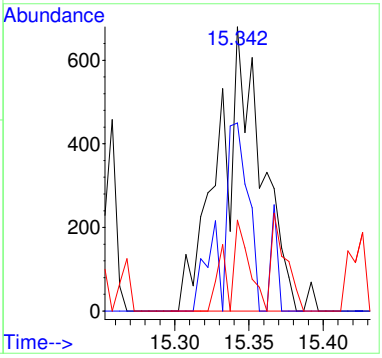


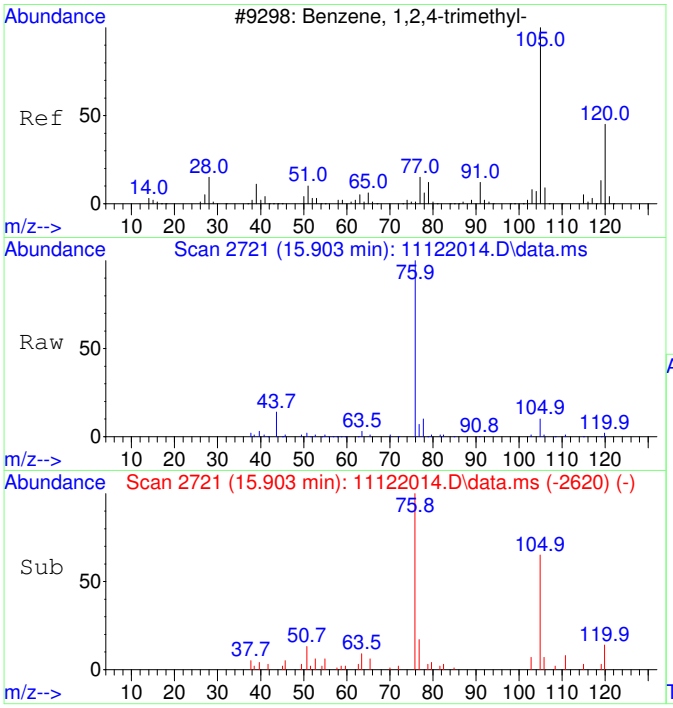


#46
1,3,5-Trimethylbenzene SCAN
Concen: 22.46 ug/L
RT: 15.342 min Scan# 2608
Delta R.T. -0.001 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:105 Resp: 1367

Ion	Ratio	Lower	Upper
105	100		
120	41.2	18.3	78.3
119	10.9	0.0	43.1

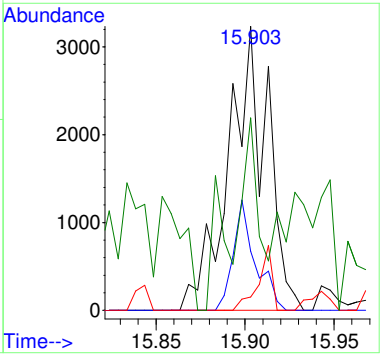




#47
1,2,4-Trimethylbenzene SCAN
Concen: 78.71 ug/L
RT: 15.903 min Scan# 2721
Delta R.T. 0.004 min
Lab File: 11122014.D
Acq: 12 Nov 2020 13:36

Tgt Ion:105 Resp: 4901

Ion	Ratio	Lower	Upper
105	100		
120	22.0	16.9	76.9
119	8.0	0.0	41.9
77	16.2	0.0	42.3



2011015-07

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122015.D
Acq On : 12 Nov 2020 13:59
InstName : AG5975C
Operator : TD
Sample : 2011015-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 12 14:18:41 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

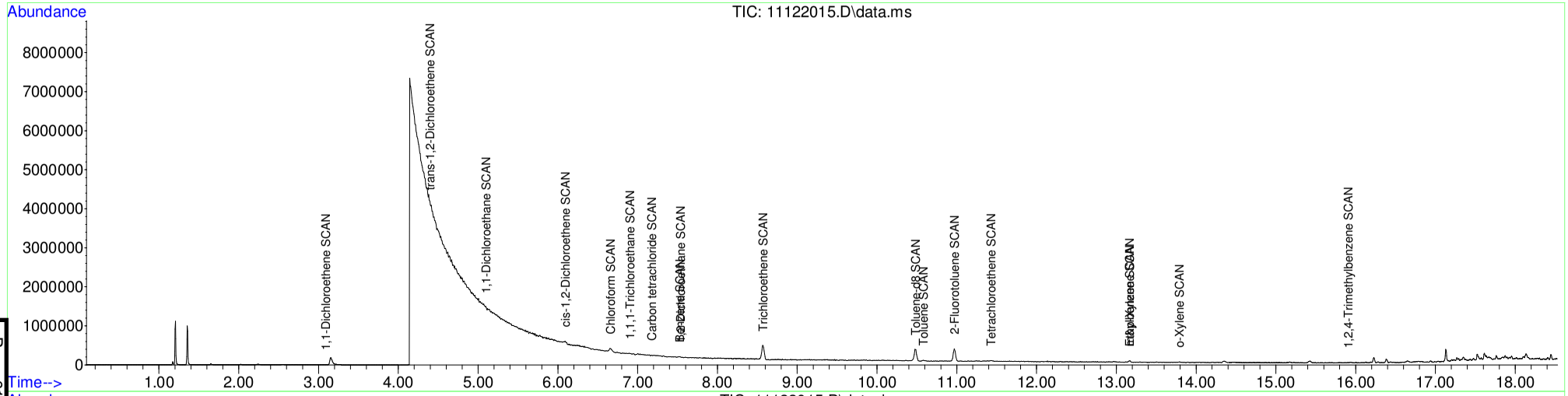
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	481667	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	412715	4377.01 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.54%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	3726	193.72 ug/L	74
3] trans-1,2-Dichloroethene	4.382	61	4316	194.22 ug/L	87
4] 1,1-Dichloroethane	5.092	63	3603	130.25 ug/L	73
5] cis-1,2-Dichloroethene	6.088	61	79151	2710.71 ug/L	99
6] Chloroform	6.652	83	138462	4632.90 ug/L	99
7] 1,1,1-Trichloroethane	6.919	97	2449	75.45 ug/L	99
8] Carbon tetrachloride	7.187	117	1746	57.15 ug/L	99
9] Benzene	7.503	78	11724	143.26 ug/L	62
10] 1,2-Dichloroethane	7.552	62	3152	107.89 ug/L	75
11] Trichloroethene	8.569	130	248479	10084.24 ug/L	93
13] Toluene	10.582	91	30284	251.92 ug/L	98
15] Tetrachloroethene	11.432	166	12502	359.36 ug/L	99
18] Ethylbenzene	12.972	91	14941	102.11 ug/L	95
19] m&p-Xylene	13.162	91	39950	349.33 ug/L	95
20] o-Xylene	13.782	91	13185	107.91 ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	7292	53.98 ug/L	87
25) 2-Fluorotoluene SCAN	10.969	109	249944	5323.21 ug/L	98
26) 1,1-Dichloroethene SCAN	3.088	61	336	33.70 ug/L	71
27) trans-1,2-Dichloroethe...	4.401	61	850	68.89 ug/L #	40
28) 1,1-Dichloroethane SCAN	5.104	63	359	25.14 ug/L #	1
29) cis-1,2-Dichloroethene...	6.093	61	48627	3178.27 ug/L #	81
30) Chloroform SCAN	6.662	83	83112	5008.31 ug/L	96
31) 1,1,1-Trichloroethane ...	6.906	97	1319	87.22 ug/L	82
32) Carbon tetrachloride SCAN	7.173	117	939	59.53 ug/L #	76
33) Benzene SCAN	7.526	78	14573	349.99 ug/L	99
34) 1,2-Dichloroethane SCAN	7.538	62	2270	147.64 ug/L #	40
35) Trichloroethene SCAN	8.574	130	121220	10593.94 ug/L	79
36) Toluene-d8 SCAN	10.486	98	228581	4977.89 ug/L	94
37) Toluene SCAN	10.580	91	17026	289.53 ug/L	96
39) Tetrachloroethene SCAN	11.430	166	5059	358.08 ug/L #	69
42) Ethylbenzene SCAN	13.169	91	22276	207.92 ug/L	90
43) m&p-Xylene SCAN	13.169	91	22276	207.92 ug/L	91
44) o-Xylene SCAN	13.789	91	6929	120.83 ug/L	82
47) 1,2,4-Trimethylbenzene...	15.904	105	4289	69.36 ug/L	78

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122015.D
Acq On : 12 Nov 2020 13:59
InstName : AG5975C
Operator : TD
Sample : 2011015-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 12 14:18:41 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



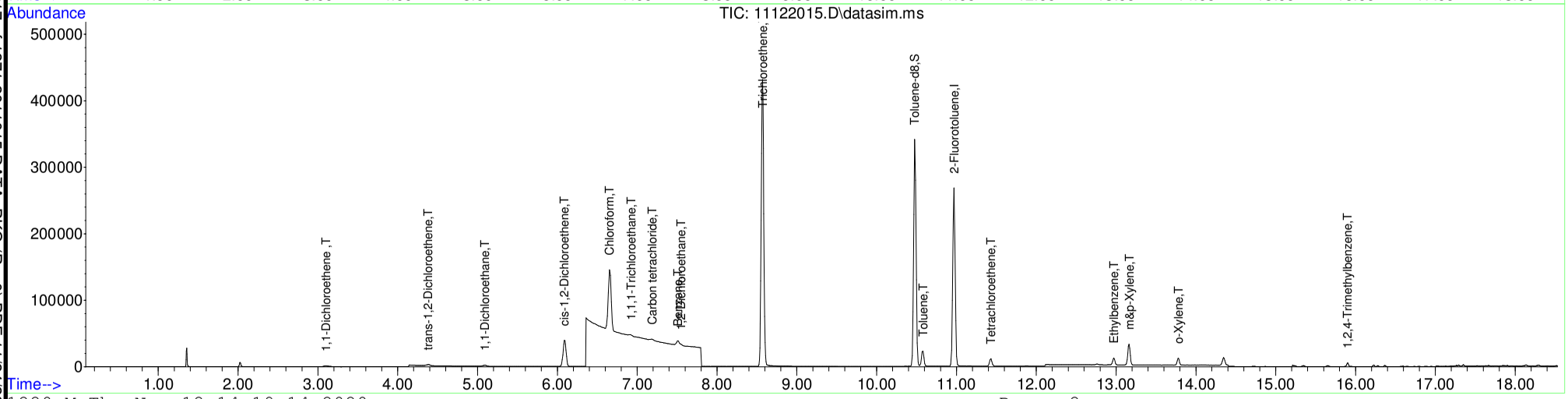
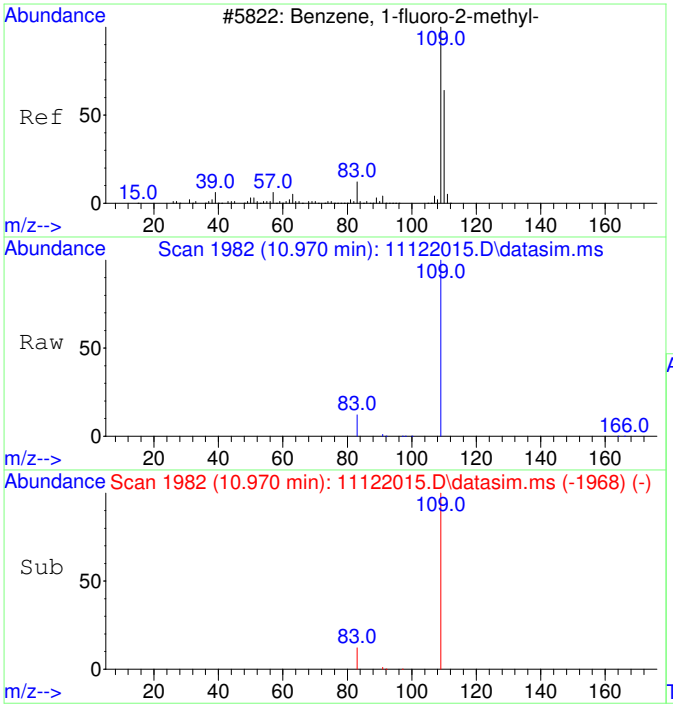


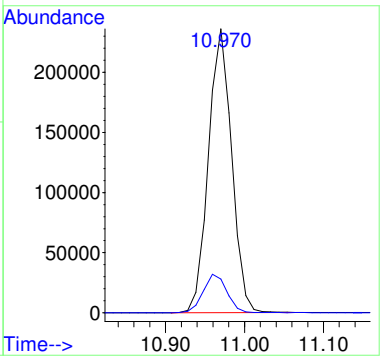
Table of Contents

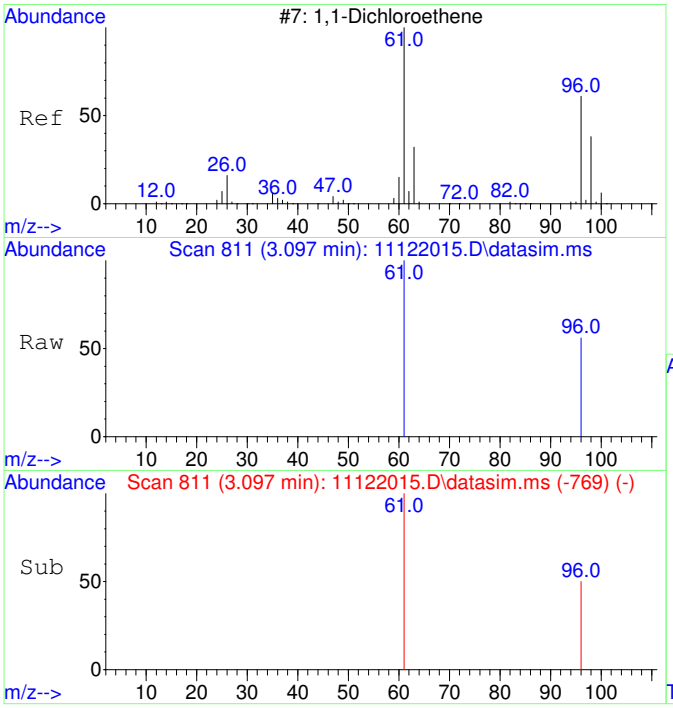


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:109 Resp: 481667

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

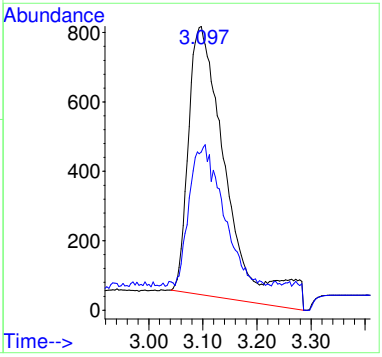




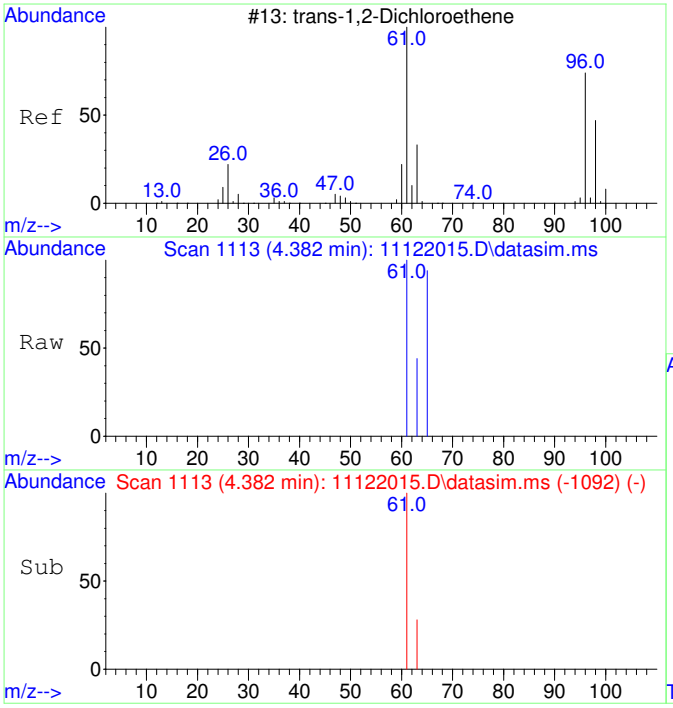
#2
1,1-Dichloroethene
Concen: 193.72 ug/L
RT: 3.097 min Scan# 811
Delta R.T. 0.007 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 61 Resp: 3726

Ion	Ratio	Lower	Upper
61	100		
96	46.4	37.2	97.2



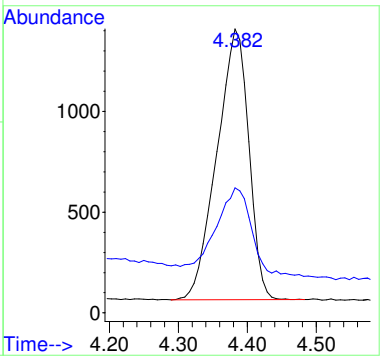
Before MI:
IMPROPER
BASELINE

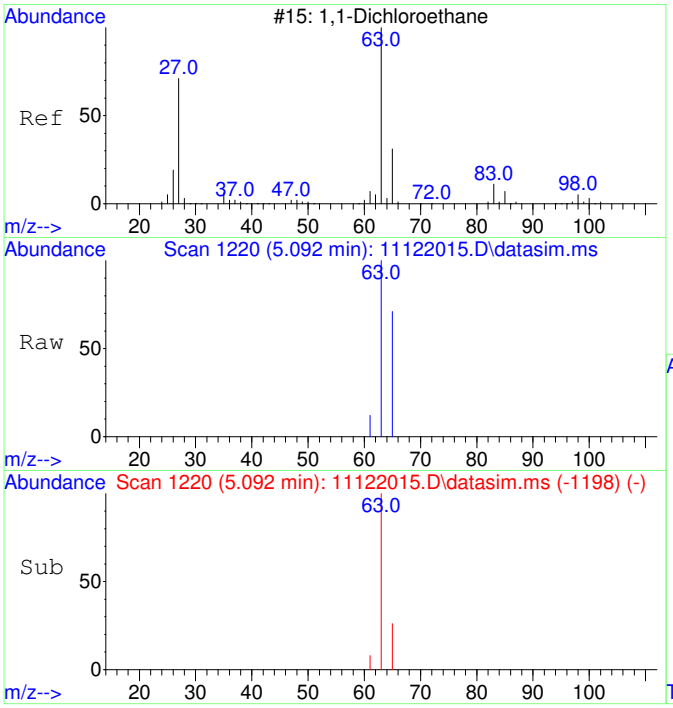


#3
trans-1,2-Dichloroethene
Concen: 194.22 ug/L
RT: 4.382 min Scan# 1113
Delta R.T. -0.013 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 61 Resp: 4316

Ion	Ratio	Lower	Upper
61	100		
63	39.9	2.4	62.4

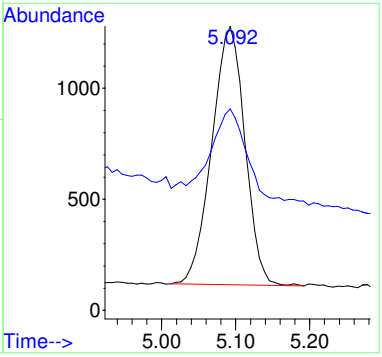


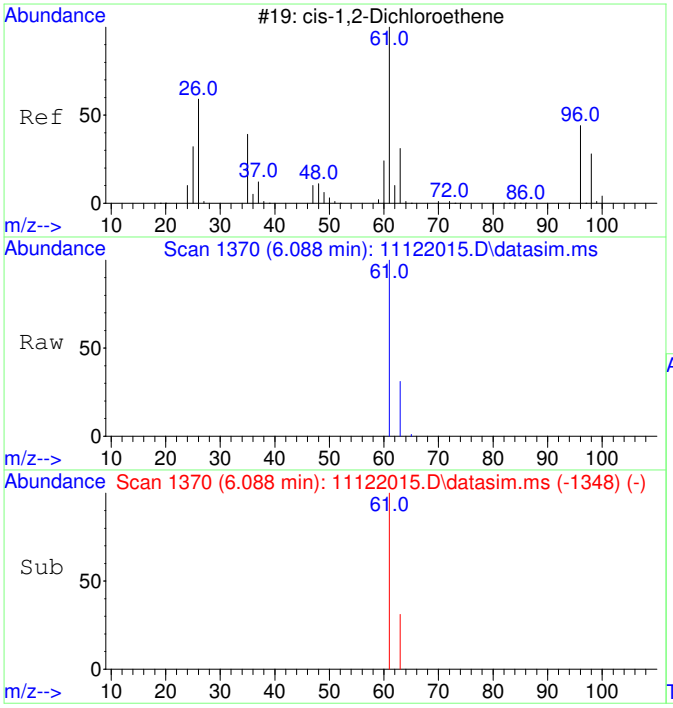


#4
1,1-Dichloroethane
Concen: 130.25 ug/L
RT: 5.092 min Scan# 1220
Delta R.T. -0.007 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 63 Resp: 3603

Ion	Ratio	Lower	Upper
63	100		
65	47.1	1.8	61.8

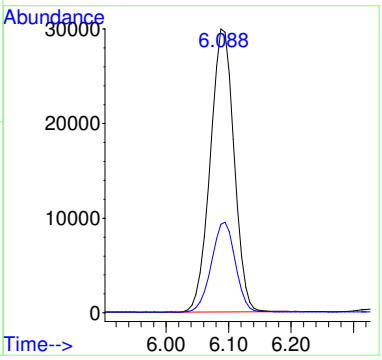


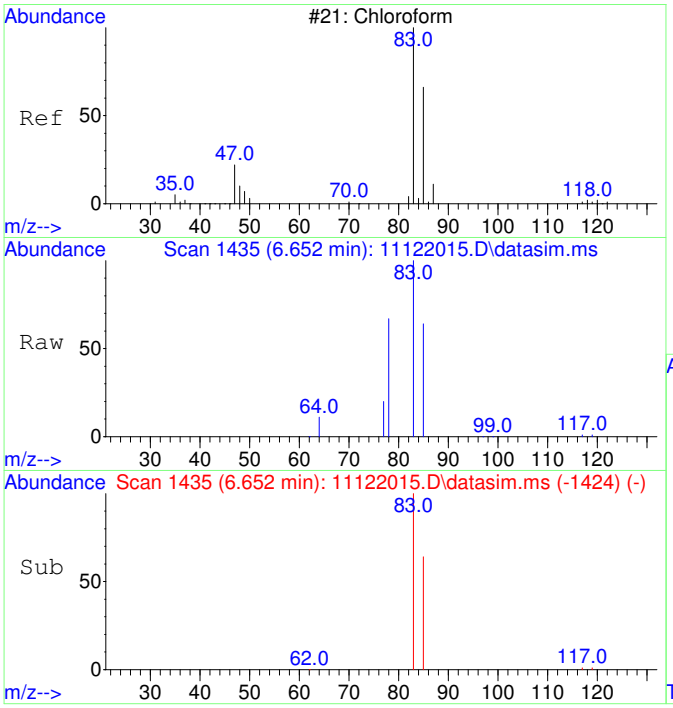


#5
cis-1,2-Dichloroethene
Concen: 2710.71 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 61 Resp: 79151

Ion	Ratio	Lower	Upper
61	100		
63	31.7	2.5	62.5

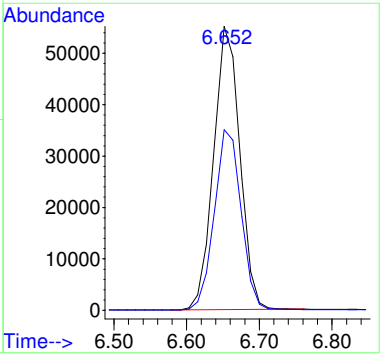


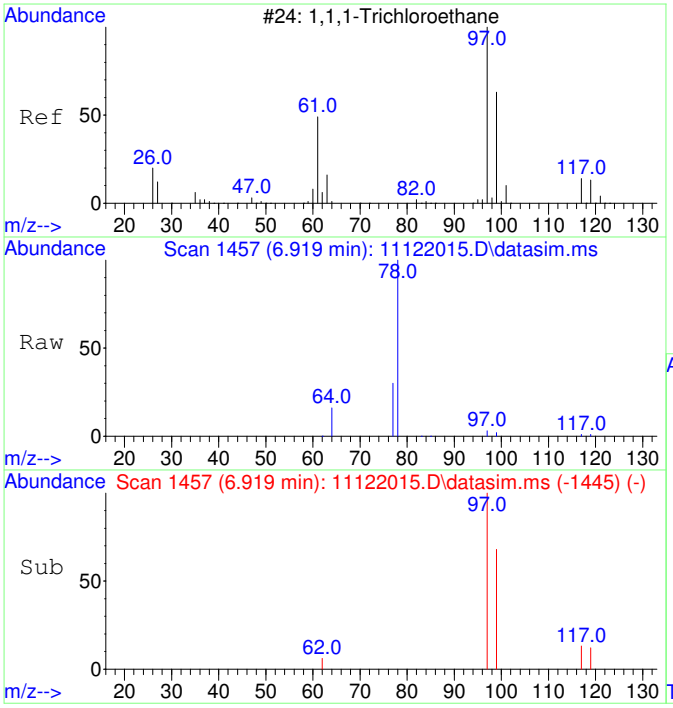


#6
Chloroform
Concen: 4632.90 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 83 Resp: 138462

Ion	Ratio	Lower	Upper
83	100		
85	64.7	35.1	95.1

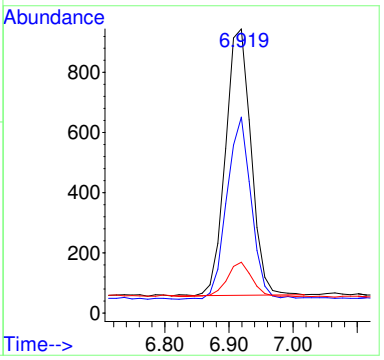


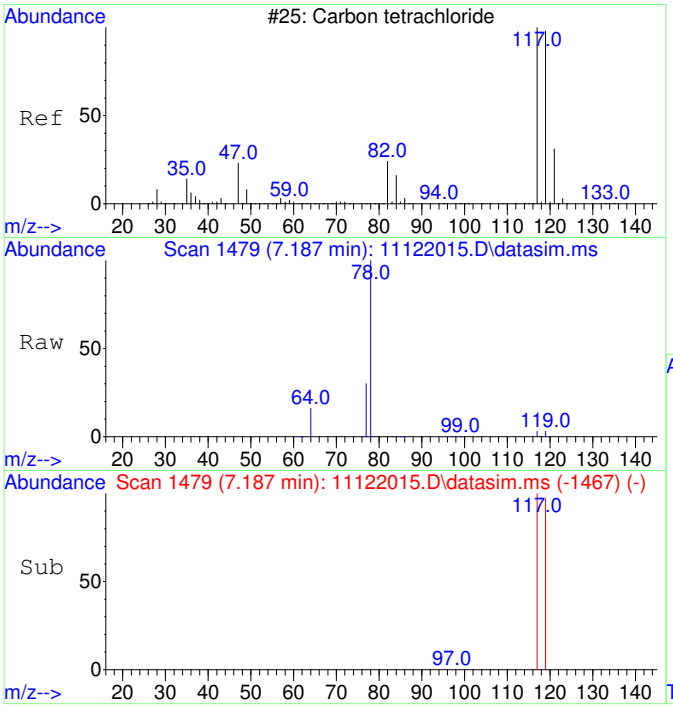


#7
1,1,1-Trichloroethane
Concen: 75.45 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 97 Resp: 2449

Ion	Ratio	Lower	Upper
97	100		
99	64.3	34.6	94.6
117	12.5	0.0	43.2

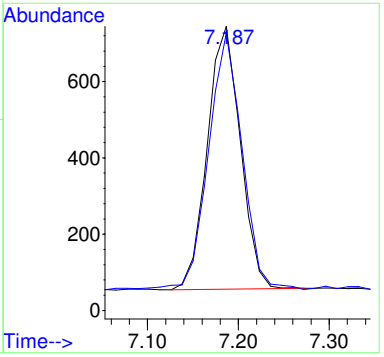


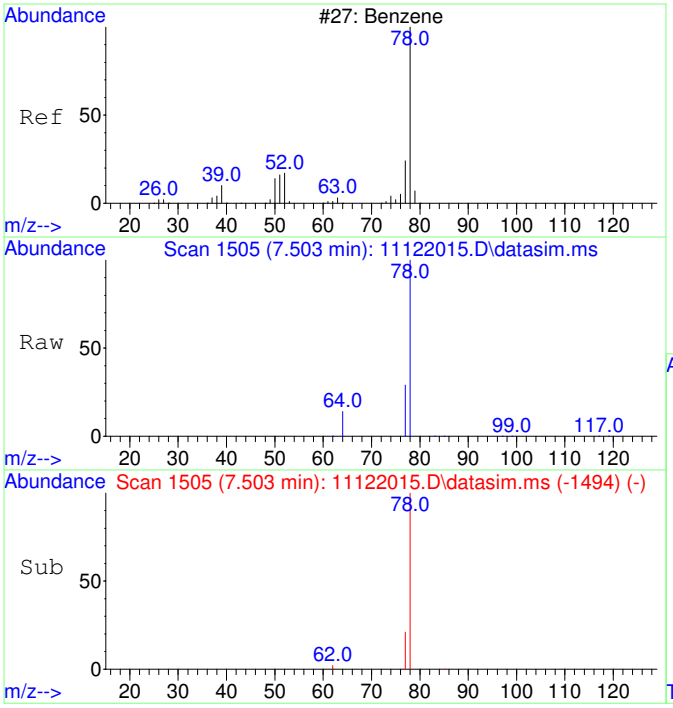


#8
Carbon tetrachloride
Concen: 57.15 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:117 Resp: 1746

Ion	Ratio	Lower	Upper
117	100		
119	97.7	66.4	126.4

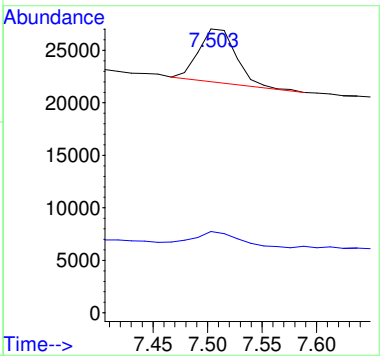


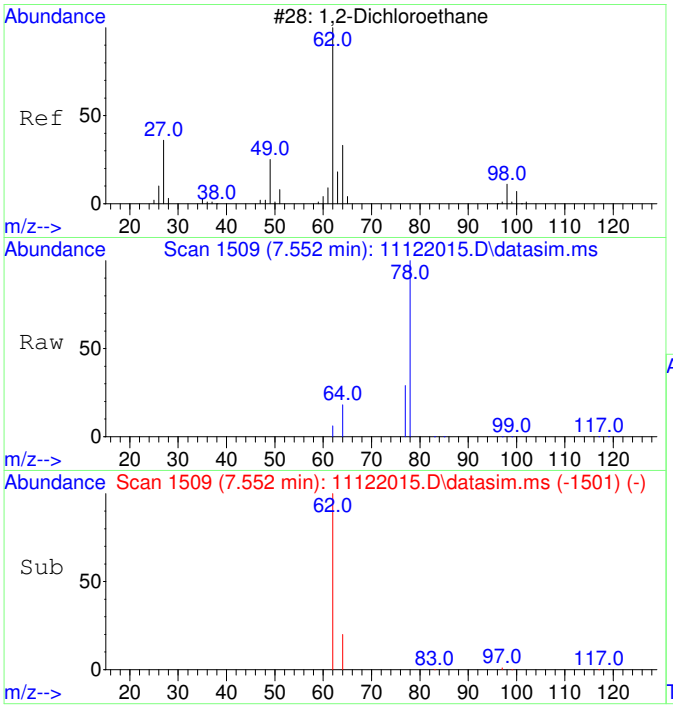


#9
Benzene
Concen: 143.26 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 78 Resp: 11724

Ion	Ratio	Lower	Upper
78	100		
77	41.8	0.0	53.2

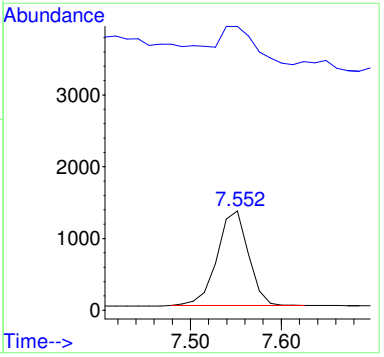


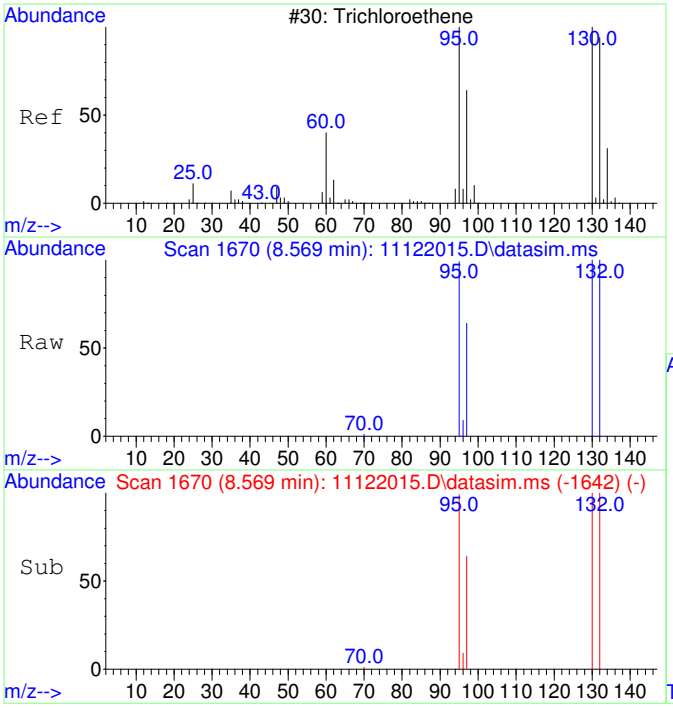


#10
1,2-Dichloroethane
Concen: 107.89 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 62 Resp: 3152

Ion	Ratio	Lower	Upper
62	100		
64	46.4	2.3	62.3

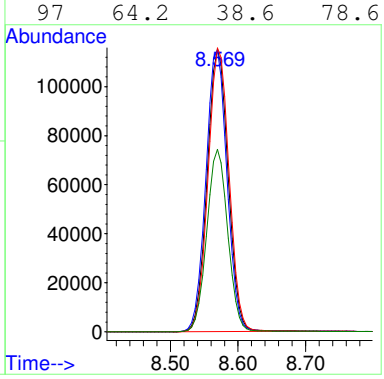


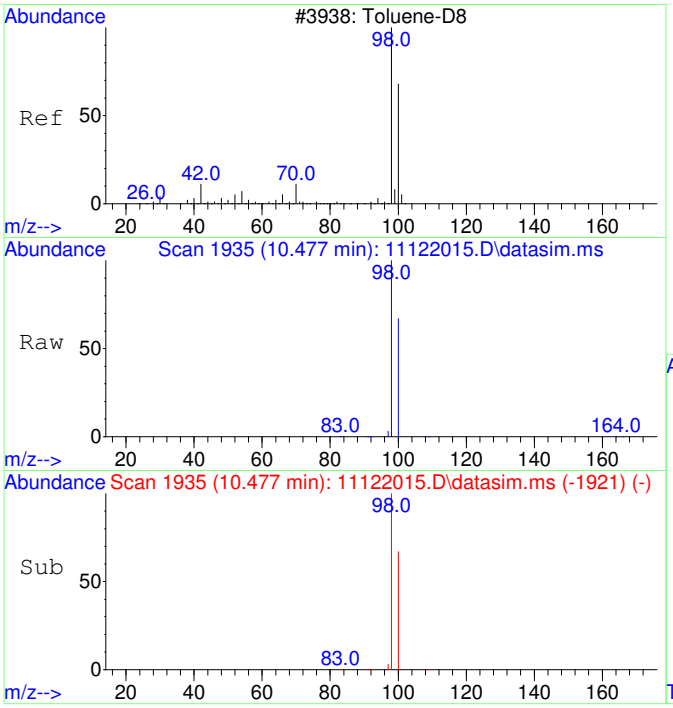


#11
Trichloroethene
Concen: 10084.24 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:130 Resp: 248479

Ion	Ratio	Lower	Upper
130	100		
95	100.3	60.7	120.7
132	100.4	76.0	116.0
97	64.2	38.6	78.6

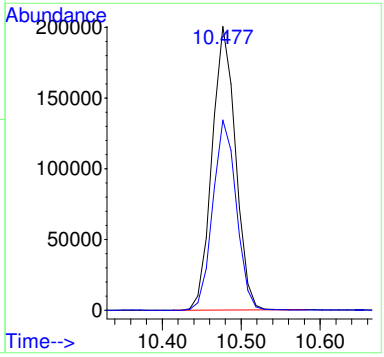


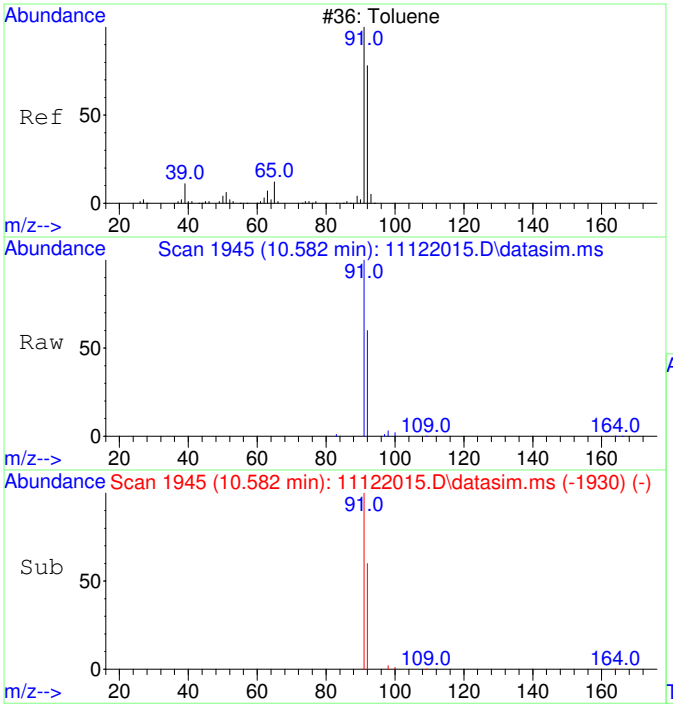


#12
Toluene-d8
Concen: 4377.01 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 98 Resp: 412715

Ion	Ratio	Lower	Upper
98	100		
100	67.1	37.1	97.1

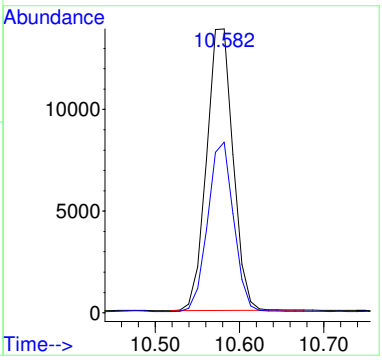


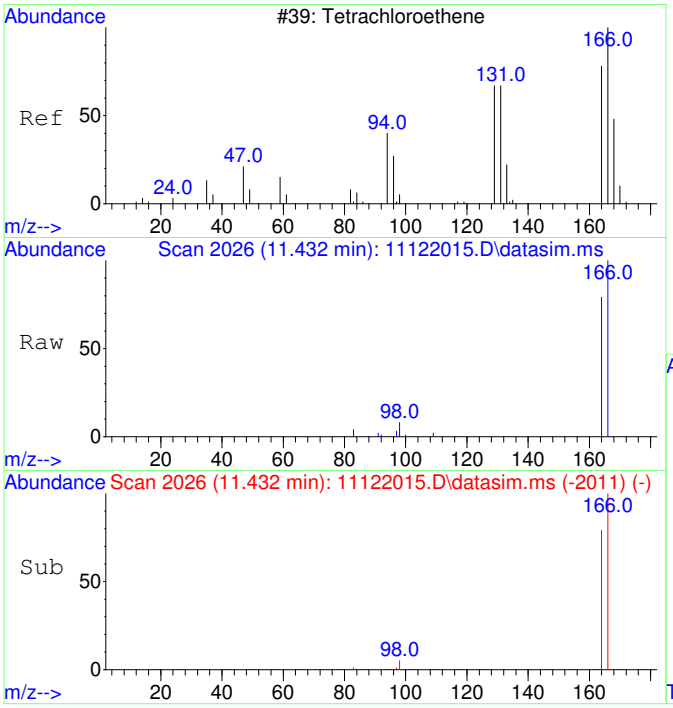


#13
Toluene
Concen: 251.92 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 30284

Ion	Ratio	Lower	Upper
91	100		
92	58.6	29.9	89.9

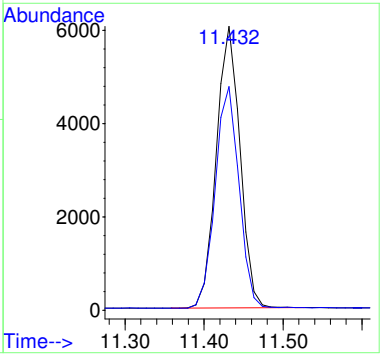


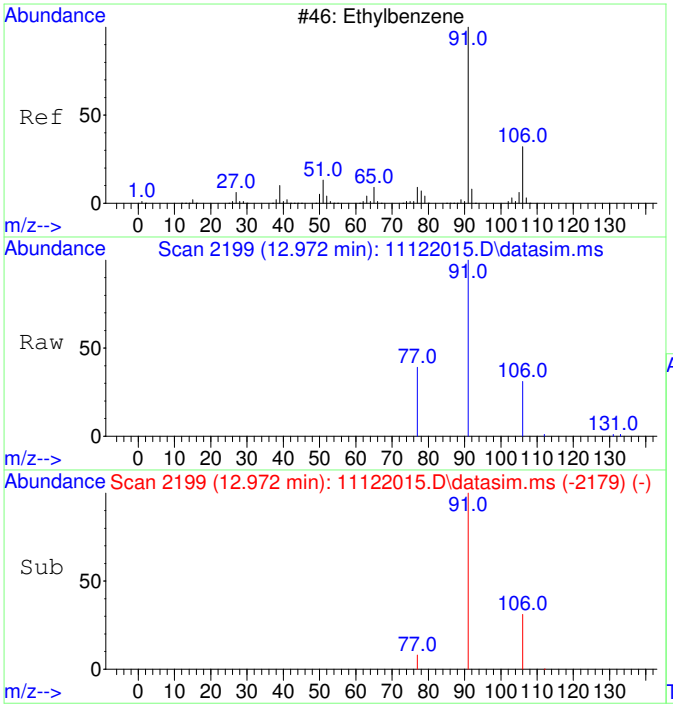


#15
Tetrachloroethene
Concen: 359.36 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:166 Resp: 12502

Ion	Ratio	Lower	Upper
166	100		
164	79.0	47.8	107.8

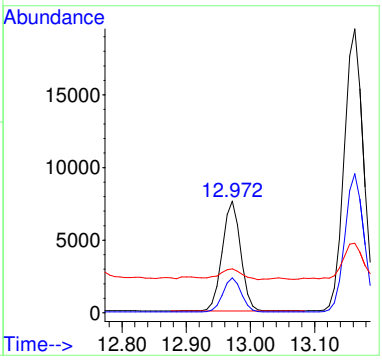


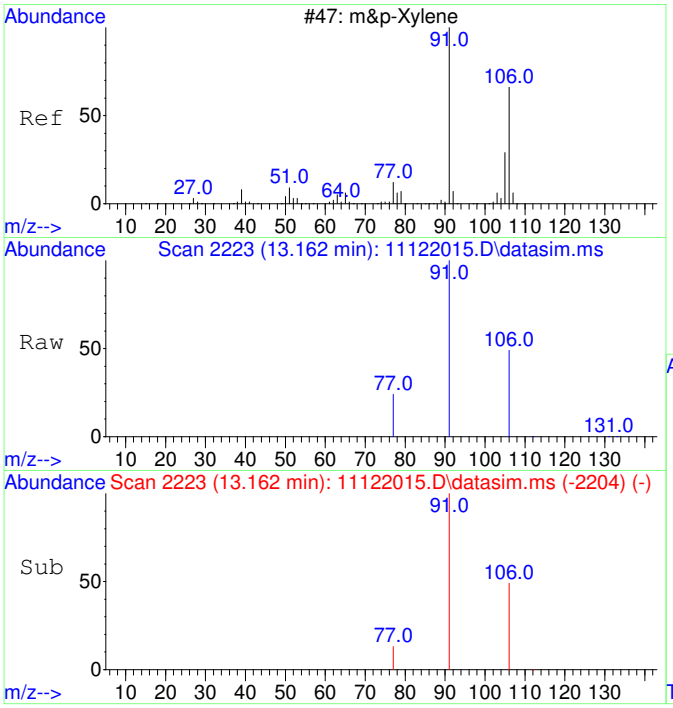


#18
Ethylbenzene
Concen: 102.11 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 14941

Ion	Ratio	Lower	Upper
91	100		
106	31.3	3.0	63.0
77	11.9	0.0	38.2

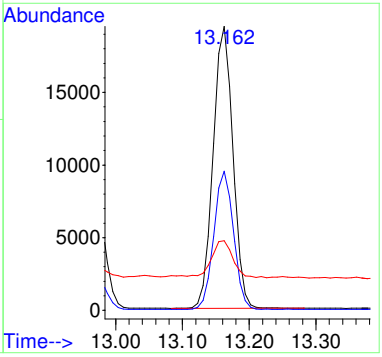


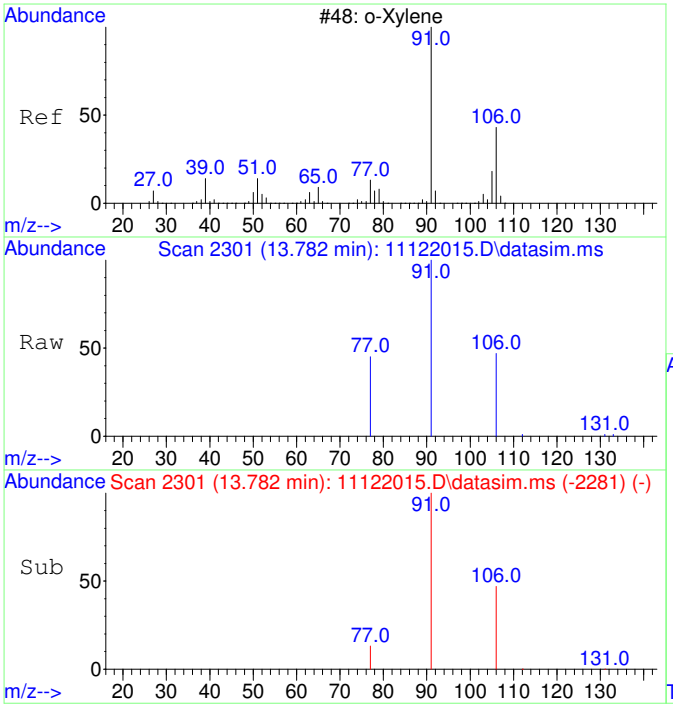


#19
m&p-Xylene
Concen: 349.33 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 39950

Ion	Ratio	Lower	Upper
91	100		
106	48.8	22.2	82.2
77	14.2	0.0	42.4

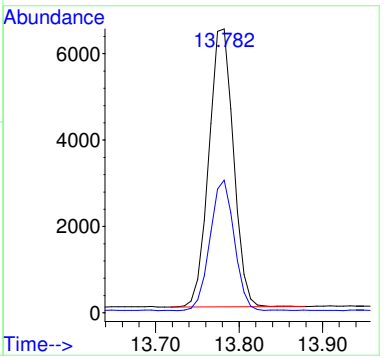


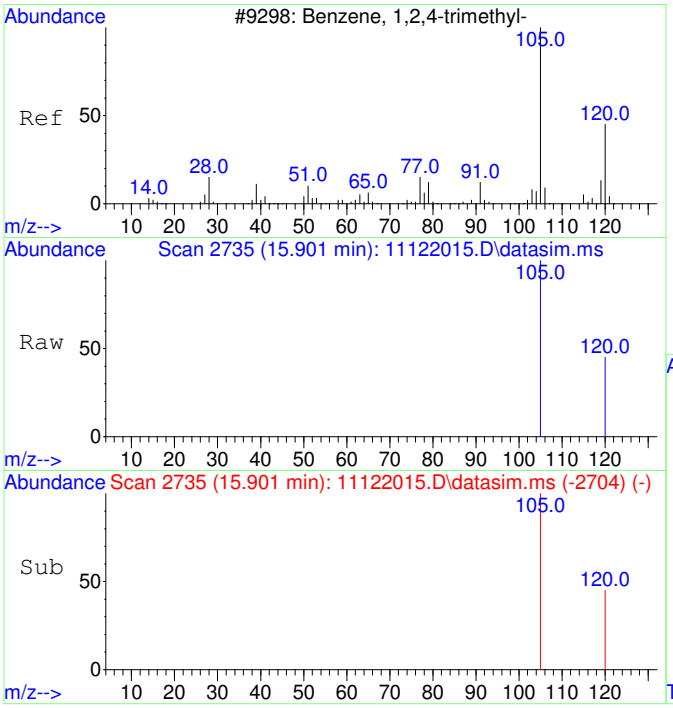


#20
o-Xylene
Concen: 107.91 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 13185

Ion	Ratio	Lower	Upper
91	100		
106	46.2	19.2	79.2

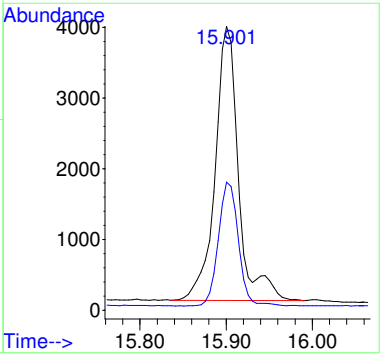


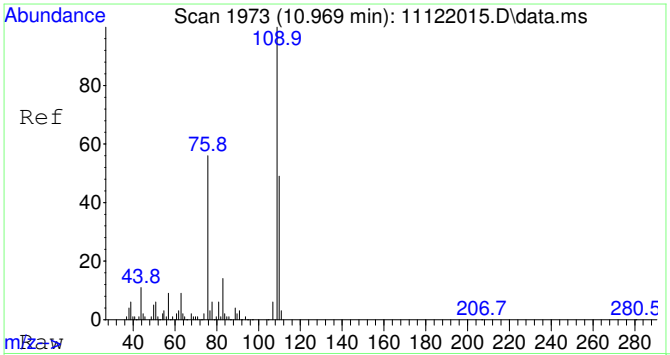


#23
1,2,4-Trimethylbenzene
Concen: 53.98 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:105 Resp: 7292

Ion	Ratio	Lower	Upper
105	100		
120	38.5	17.2	77.2

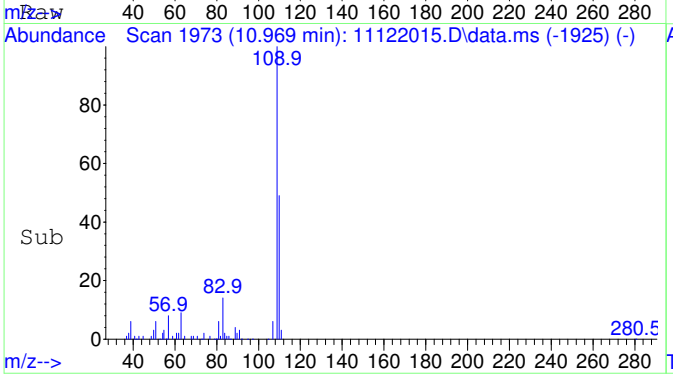


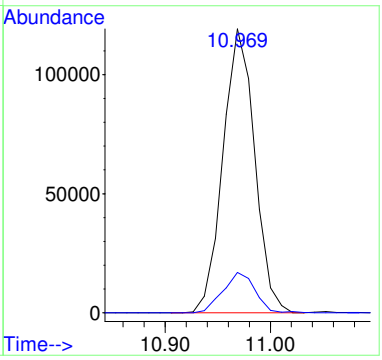


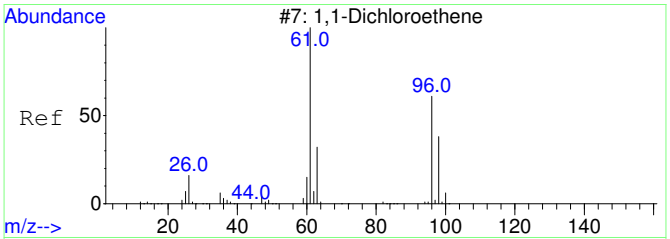
#25
2-Fluorotoluene SCAN
Concen: 5323.21 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

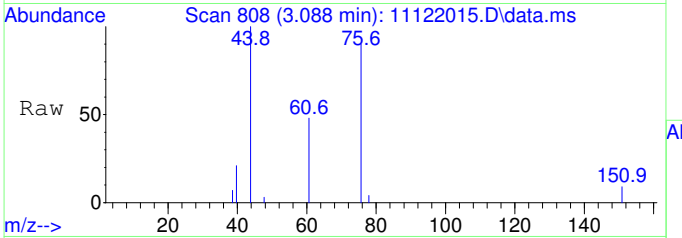
Tgt Ion:109 Resp: 249944

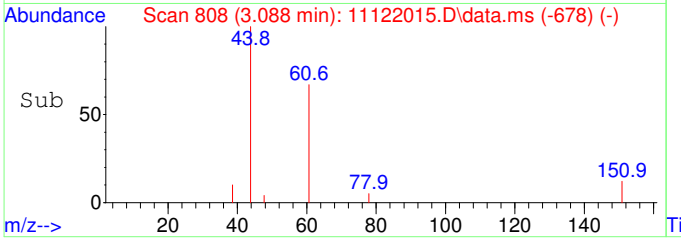
Ion	Ratio	Lower	Upper
109	100		
83	14.4	0.0	43.8







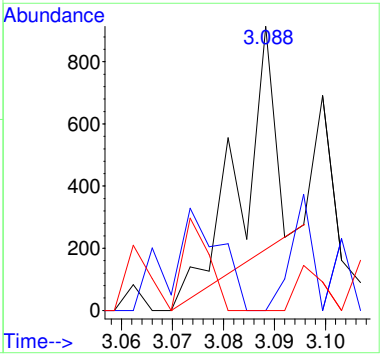


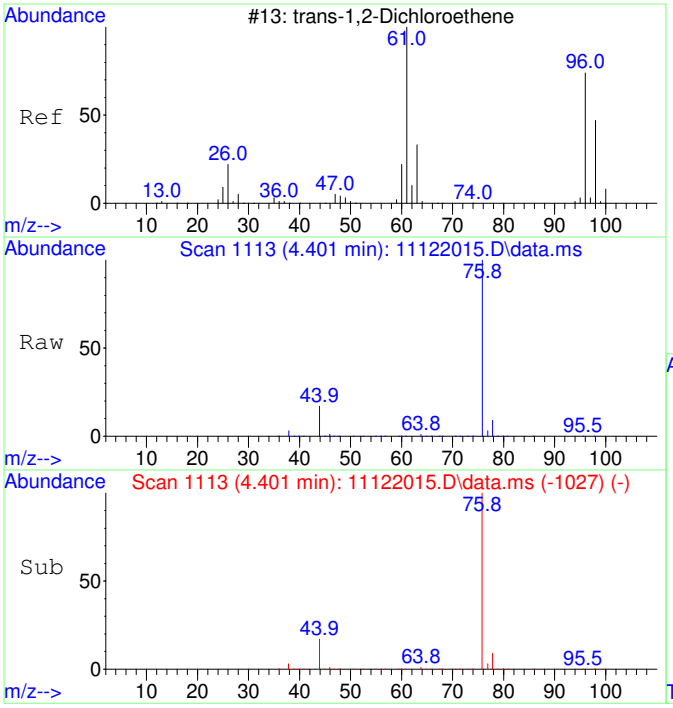


#26
1,1-Dichloroethene SCAN
Concen: 33.70 ug/L
RT: 3.088 min Scan# 808
Delta R.T. -0.019 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 61 Resp: 336

Ion	Ratio	Lower	Upper
61	100		
96	46.7	33.1	93.1
98	15.8	11.2	71.2

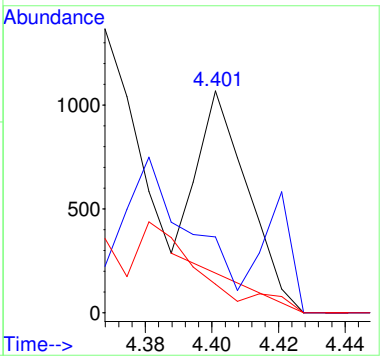


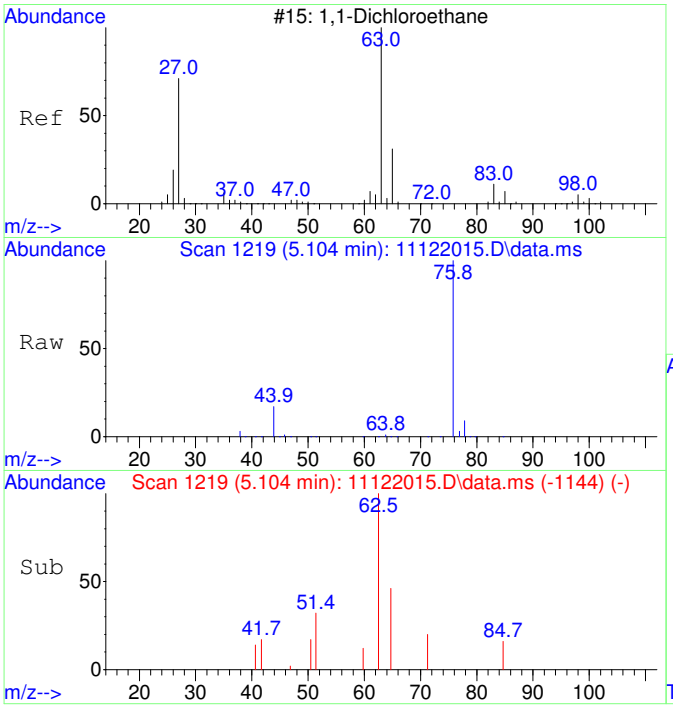


#27
trans-1,2-Dichloroethene SCAN
Concen: 68.89 ug/L
RT: 4.401 min Scan# 1113
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 61 Resp: 850

Ion	Ratio	Lower	Upper
61	100		
96	33.3	49.0	109.0#
98	0.0	20.5	80.5#

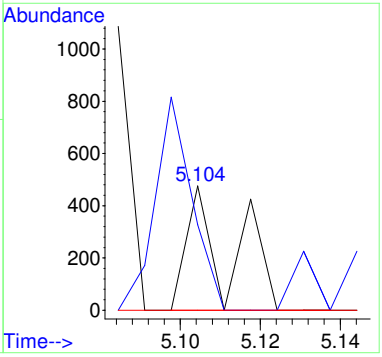


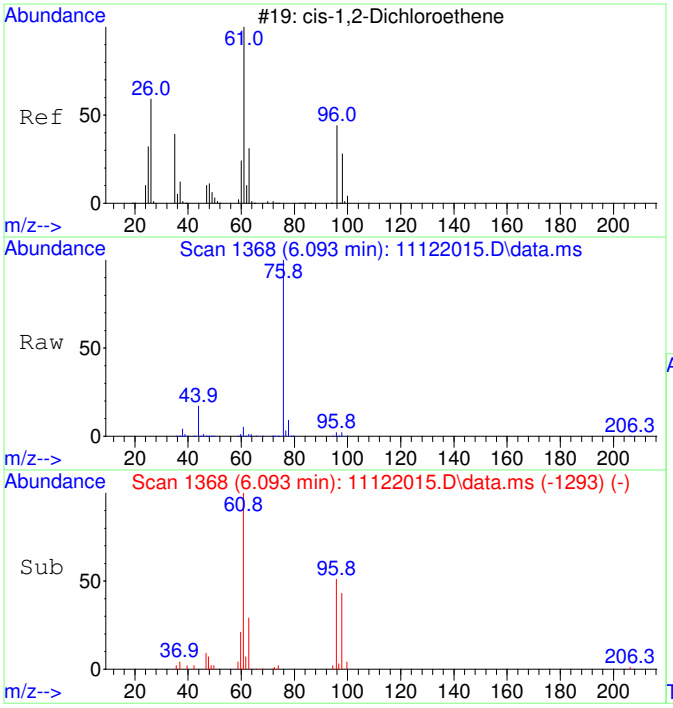


#28
1,1-Dichloroethane SCAN
Concen: 25.14 ug/L
RT: 5.104 min Scan# 1219
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 63 Resp: 359

Ion	Ratio	Lower	Upper
63	100		
65	145.7	1.3	61.3#
83	0.0	0.0	45.9

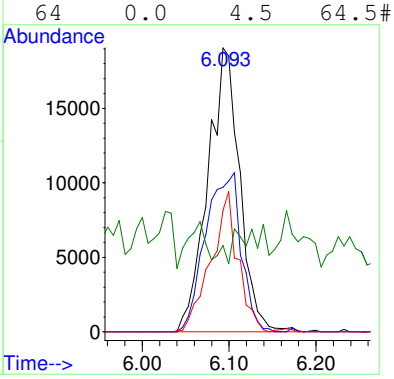


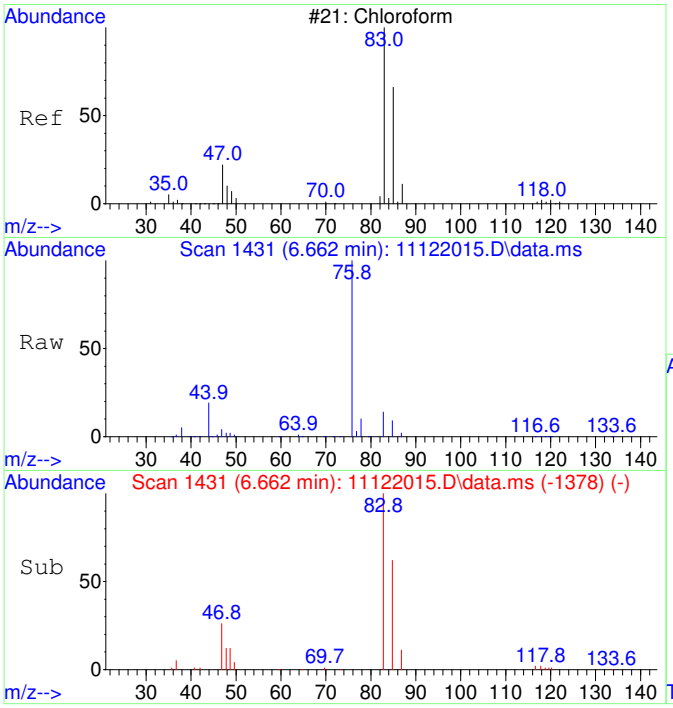


#29
cis-1,2-Dichloroethene SCAN
Concen: 3178.27 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 61 Resp: 48627

Ion	Ratio	Lower	Upper
61	100		
96	62.4	39.9	99.9
98	41.9	13.5	73.5
64	0.0	4.5	64.5#

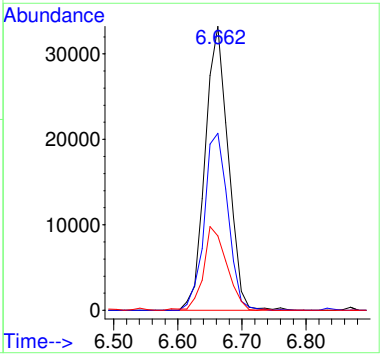


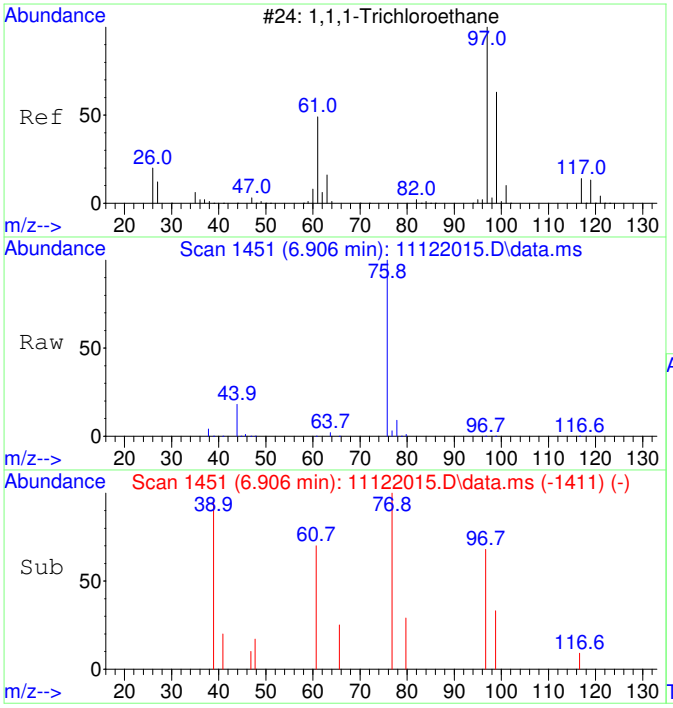


#30
Chloroform SCAN
Concen: 5008.31 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 83 Resp: 83112

Ion	Ratio	Lower	Upper
83	100		
85	63.9	34.6	94.6
47	29.7	0.0	53.4

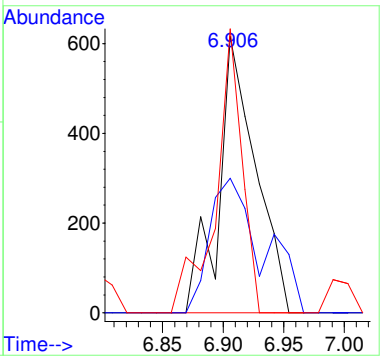


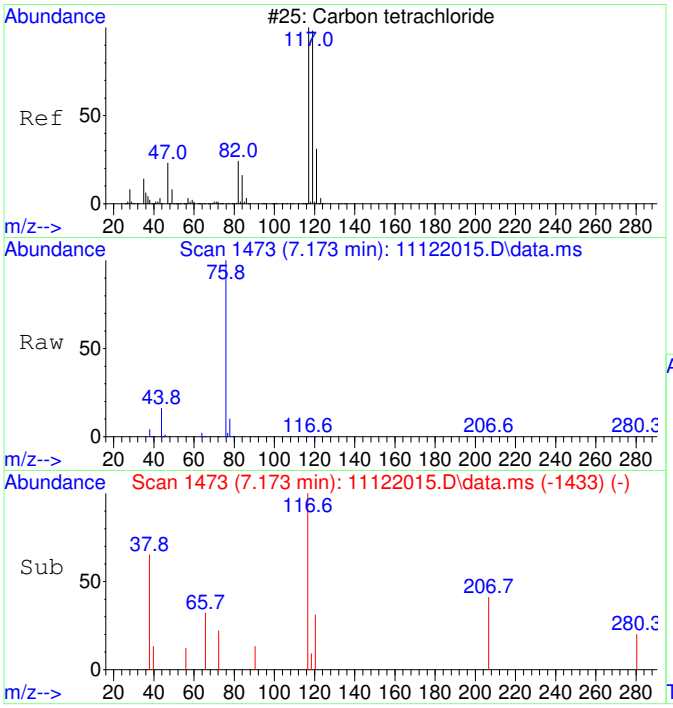


#31
1,1,1-Trichloroethane SCAN
Concen: 87.22 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 97 Resp: 1319

Ion	Ratio	Lower	Upper
97	100		
99	69.1	43.6	103.6
61	72.7	18.0	78.0

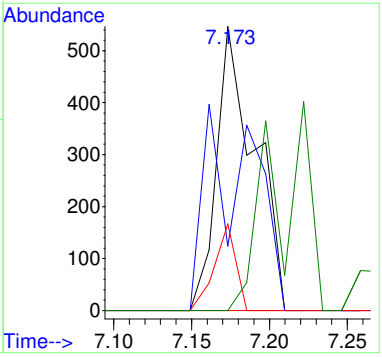


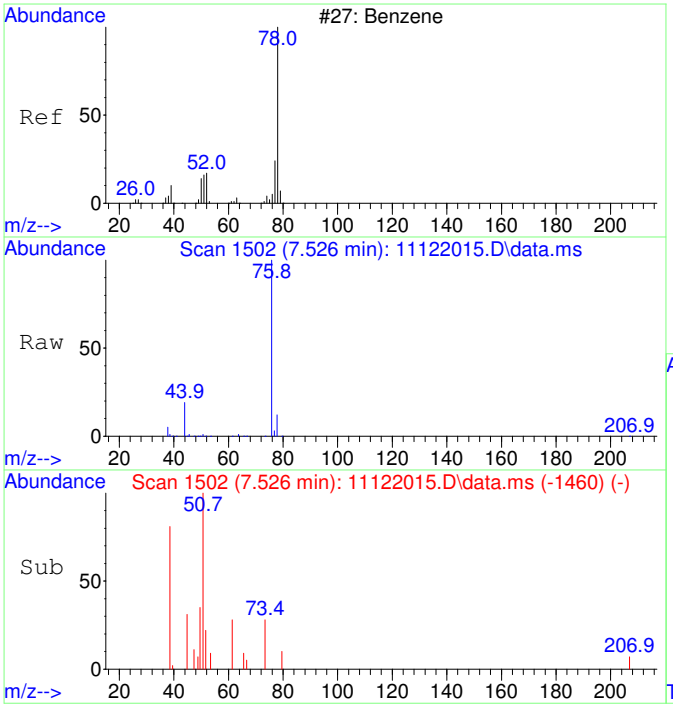


#32
Carbon tetrachloride SCAN
Concen: 59.53 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.012 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:117 Resp: 939

Ion	Ratio	Lower	Upper
117	100		
119	88.7	75.5	135.5
121	17.1	0.0	58.8
82	0.0	0.0	59.2

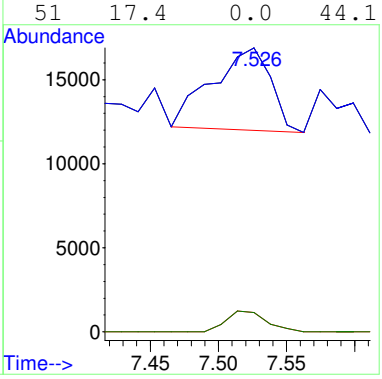


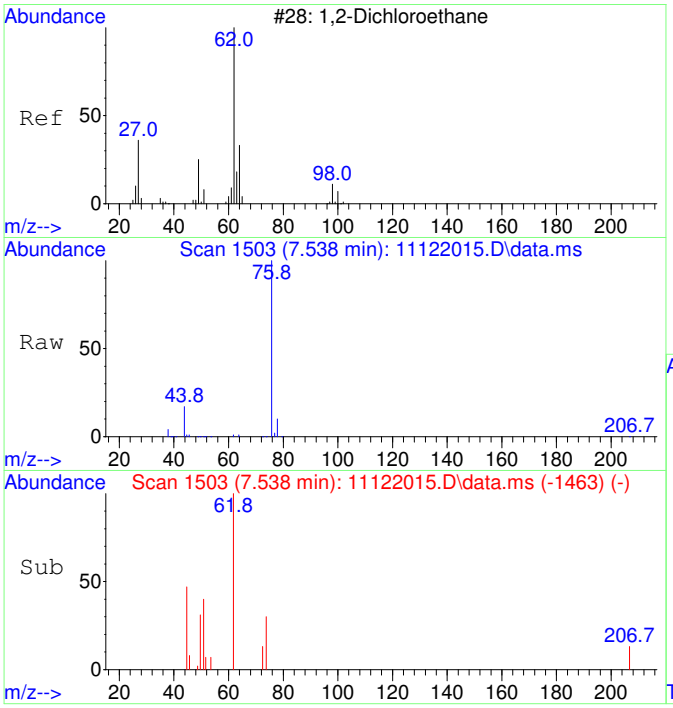


#33
Benzene SCAN
Concen: 349.99 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. 0.012 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 78 Resp: 14573

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	17.4	0.0	47.9
51	17.4	0.0	44.1

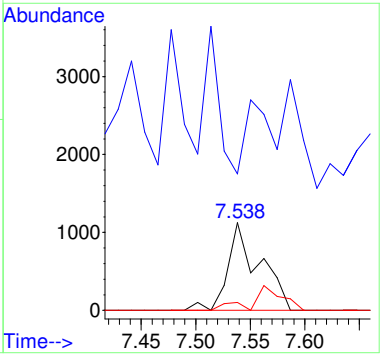


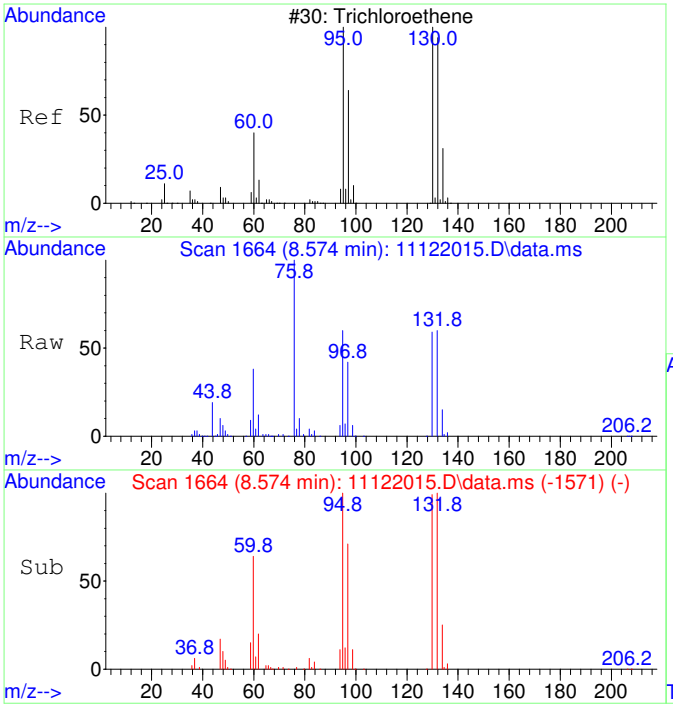


#34
1,2-Dichloroethane SCAN
Concen: 147.64 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 62 Resp: 2270

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

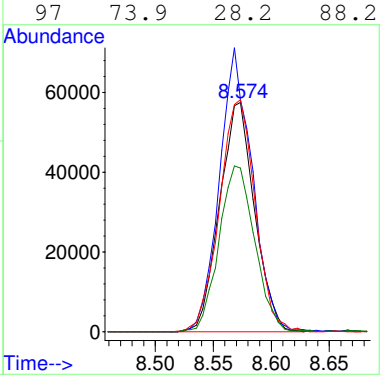


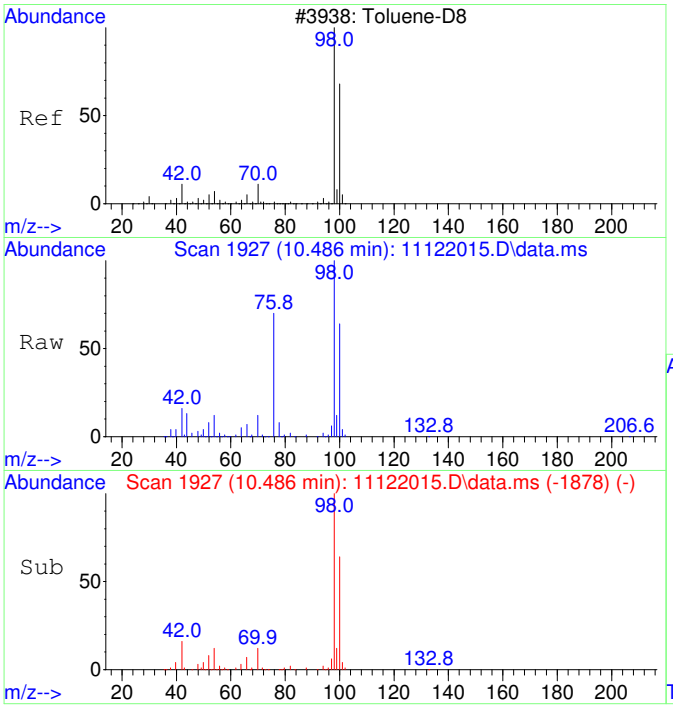


#35
Trichloroethene SCAN
Concen: 10593.94 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.005 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:130 Resp: 121220

Ion	Ratio	Lower	Upper
130	100		
95	116.3	60.5	120.5
132	103.6	59.6	119.6
97	73.9	28.2	88.2

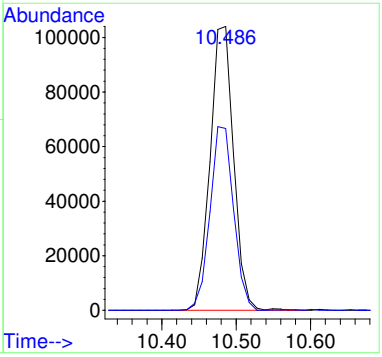


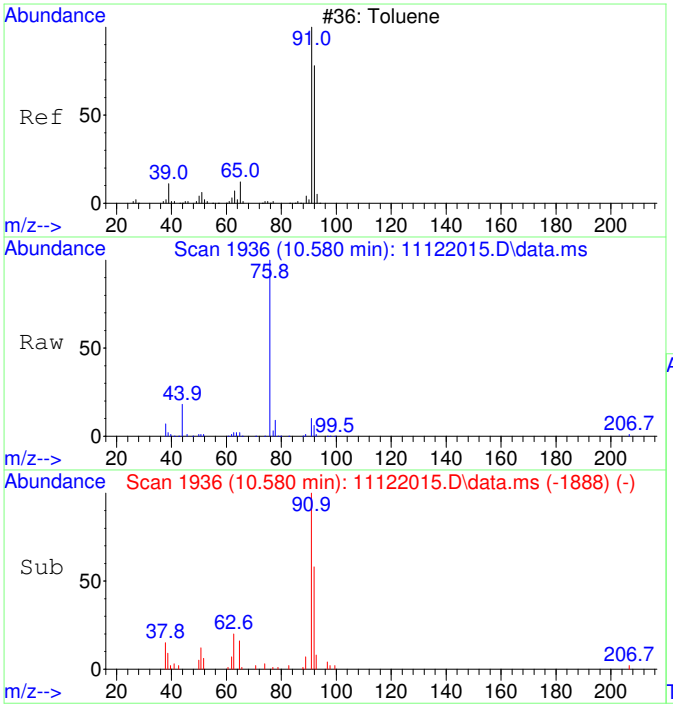


#36
Toluene-d8 SCAN
Concen: 4977.89 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 98 Resp: 228581

Ion	Ratio	Lower	Upper
98	100		
100	64.9	40.0	100.0

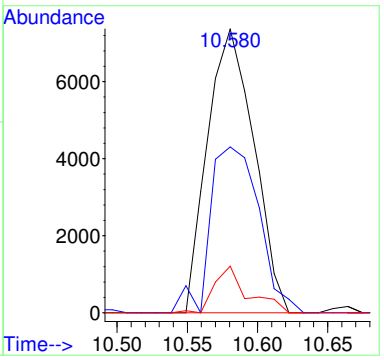


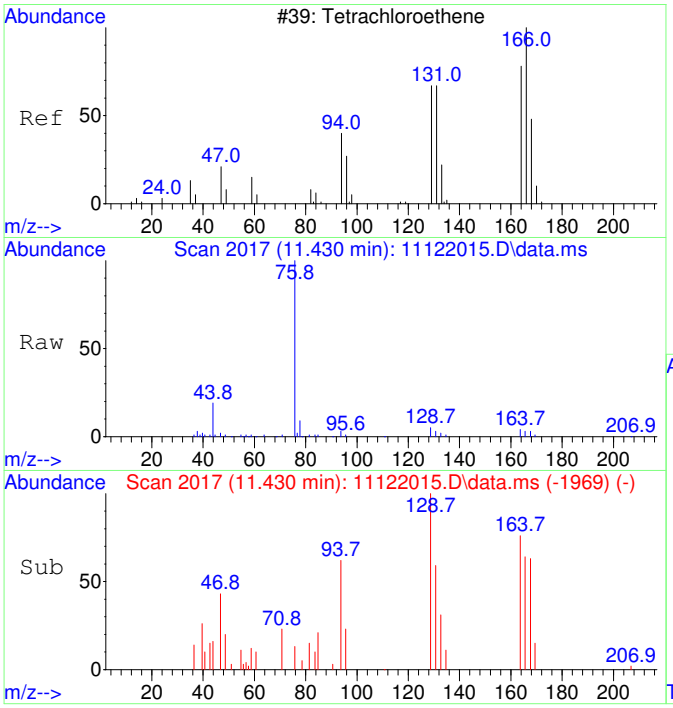


#37
Toluene SCAN
Concen: 289.53 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 17026

Ion	Ratio	Lower	Upper
91	100		
92	61.8	28.3	88.3
65	11.8	0.0	41.0

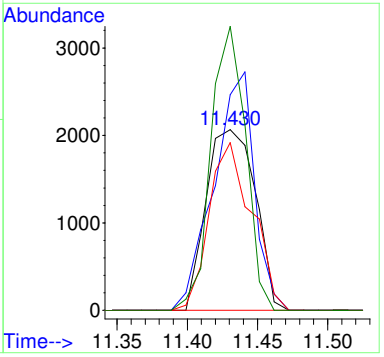


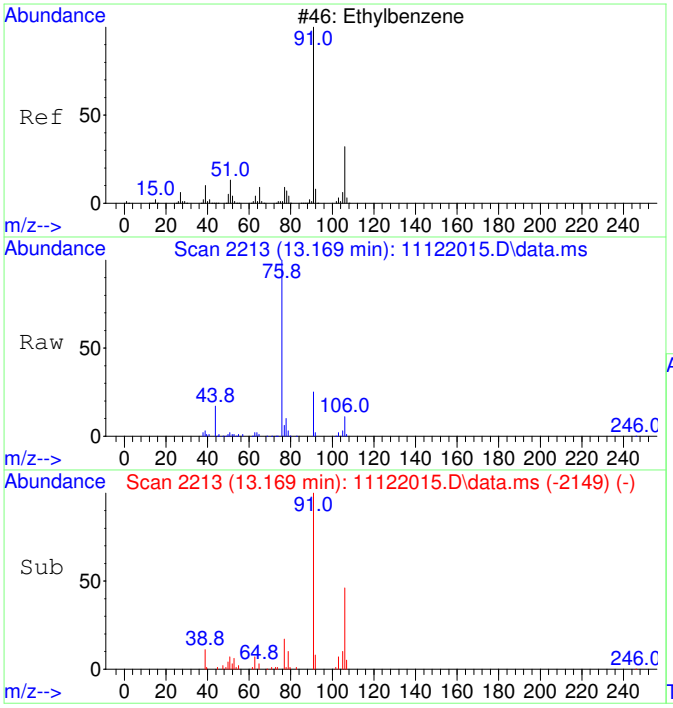


#39
Tetrachloroethene SCAN
Concen: 358.08 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:166 Resp: 5059

Ion	Ratio	Lower	Upper
166	100		
164	108.8	50.9	110.9
131	80.7	38.7	98.7
129	110.8	41.8	101.8#

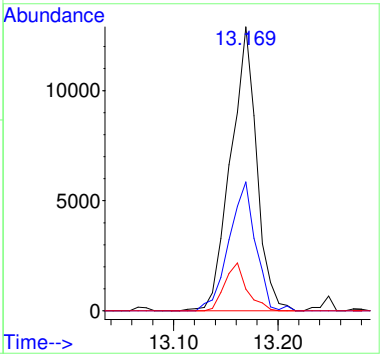


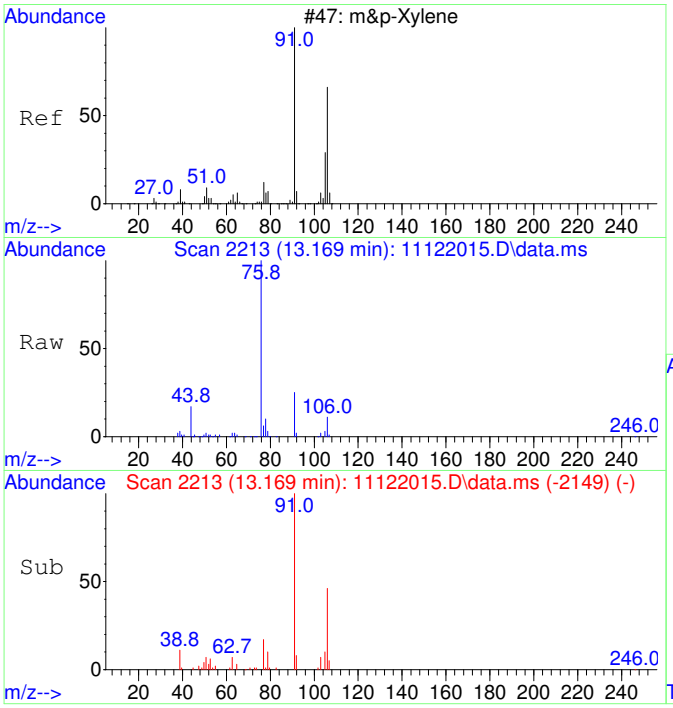


#42
Ethylbenzene SCAN
Concen: 207.92 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 22276

Ion	Ratio	Lower	Upper
91	100		
106	46.5	23.1	83.1
51	14.4	0.0	40.1

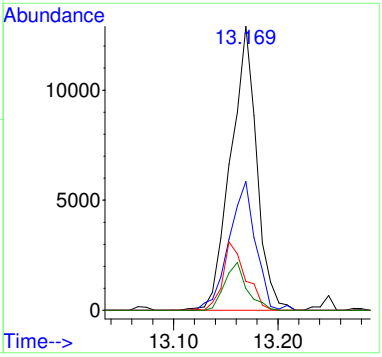


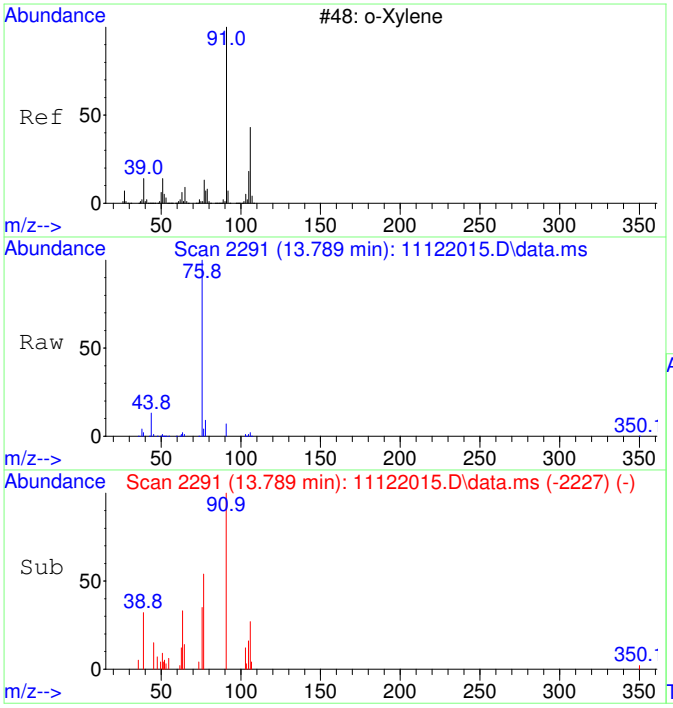


#43
m&p-Xylene SCAN
Concen: 207.92 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 22276

Ion	Ratio	Lower	Upper
91	100		
106	46.5	23.1	83.1
105	21.1	0.0	54.7
51	14.4	0.0	40.1

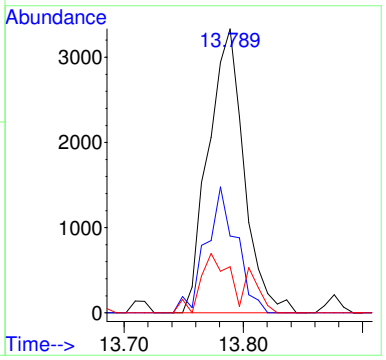


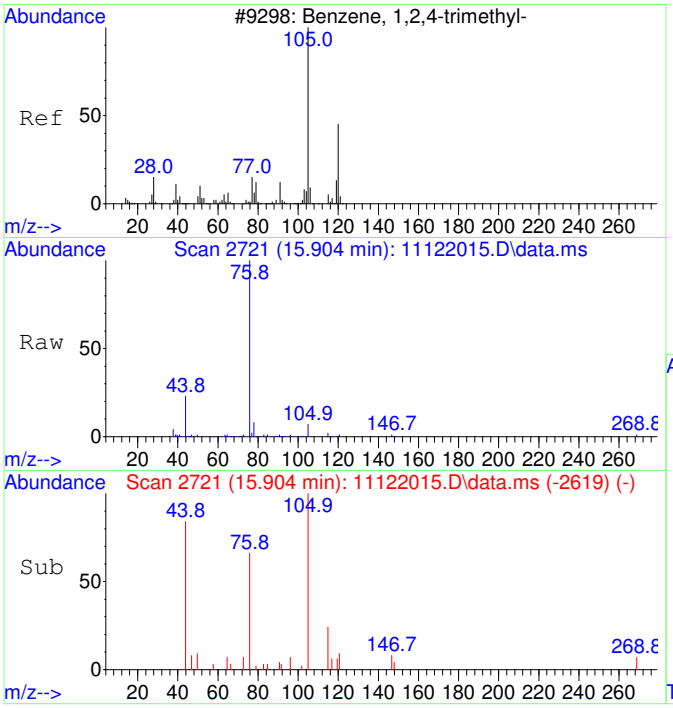


#44
o-Xylene SCAN
Concen: 120.83 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. 0.008 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 6929

Ion	Ratio	Lower	Upper
91	100		
106	38.0	18.0	78.0
105	14.1	0.0	56.6

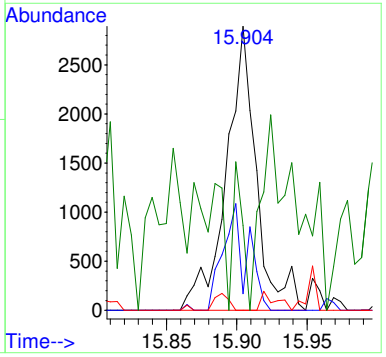




#47
1,2,4-Trimethylbenzene SCAN
Concen: 69.36 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:105 Resp: 4289

Ion	Ratio	Lower	Upper
105	100		
120	30.2	16.9	76.9
119	2.8	0.0	41.9
77	16.5	0.0	42.3



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122015.D
Acq On : 12 Nov 2020 13:59
InstName : AG5975C
Operator : TD
Sample : 2011015-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

M.I. Performed By:
TD at 11:37 am, Nov 13, 2020

M.I. Approved By:
ZR at 2:23 pm, Nov 23, 2020

Quant Time: Nov 12 14:18:41 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

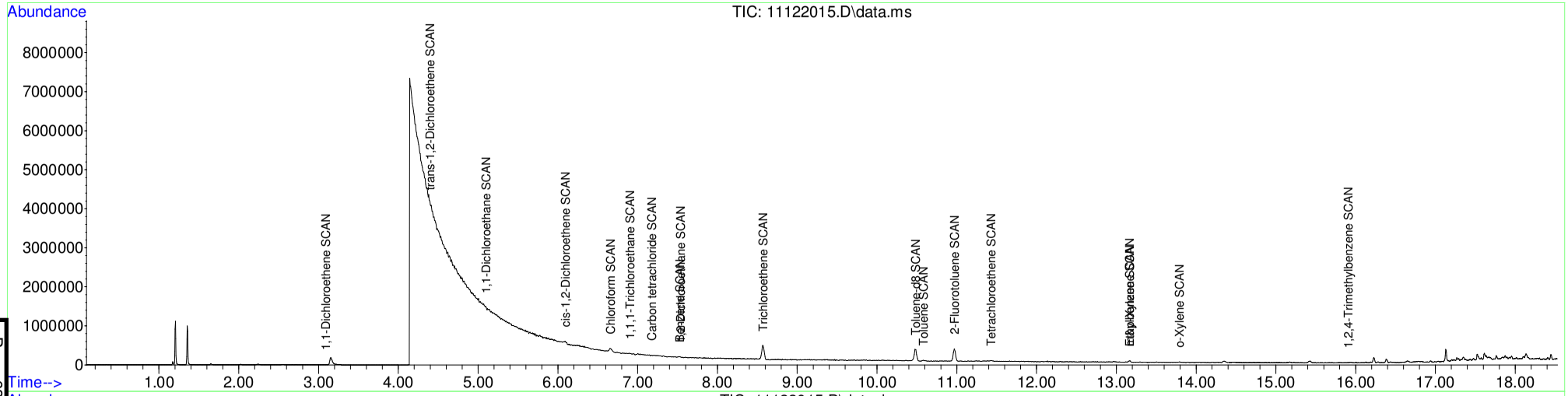
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	481667	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	412715	4377.01 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.54%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	3174m	165.02 ug/L	
3] trans-1,2-Dichloroethene	4.382	61	4316	194.22 ug/L	87
4] 1,1-Dichloroethane	5.092	63	3603	130.25 ug/L	73
5] cis-1,2-Dichloroethene	6.088	61	79151	2710.71 ug/L	99
6] Chloroform	6.652	83	138462	4632.90 ug/L	99
7] 1,1,1-Trichloroethane	6.919	97	2449	75.45 ug/L	99
8] Carbon tetrachloride	7.187	117	1746	57.15 ug/L	99
9] Benzene	7.503	78	11724	143.26 ug/L	62
10] 1,2-Dichloroethane	7.552	62	3152	107.89 ug/L	75
11] Trichloroethene	8.569	130	248479	10084.24 ug/L	93
13] Toluene	10.582	91	30284	251.92 ug/L	98
15] Tetrachloroethene	11.432	166	12502	359.36 ug/L	99
18] Ethylbenzene	12.972	91	14941	102.11 ug/L	95
19] m&p-Xylene	13.162	91	39950	349.33 ug/L	95
20] o-Xylene	13.782	91	13185	107.91 ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	7292	53.98 ug/L	87
25) 2-Fluorotoluene SCAN	10.969	109	249944	5323.21 ug/L	98
26) 1,1-Dichloroethene SCAN	3.088	61	336	33.70 ug/L	71
27) trans-1,2-Dichloroethe...	4.401	61	850	68.89 ug/L #	40
28) 1,1-Dichloroethane SCAN	5.104	63	359	25.14 ug/L #	1
29) cis-1,2-Dichloroethene...	6.093	61	48627	3178.27 ug/L #	81
30) Chloroform SCAN	6.662	83	83112	5008.31 ug/L	96
31) 1,1,1-Trichloroethane ...	6.906	97	1319	87.22 ug/L	82
32) Carbon tetrachloride SCAN	7.173	117	939	59.53 ug/L #	76
33) Benzene SCAN	7.526	78	14573	349.99 ug/L	99
34) 1,2-Dichloroethane SCAN	7.538	62	2270	147.64 ug/L #	40
35) Trichloroethene SCAN	8.574	130	121220	10593.94 ug/L	79
36) Toluene-d8 SCAN	10.486	98	228581	4977.89 ug/L	94
37) Toluene SCAN	10.580	91	17026	289.53 ug/L	96
39) Tetrachloroethene SCAN	11.430	166	5059	358.08 ug/L #	69
42) Ethylbenzene SCAN	13.169	91	22276	207.92 ug/L	90
43) m&p-Xylene SCAN	13.169	91	22276	207.92 ug/L	91
44) o-Xylene SCAN	13.789	91	6929	120.83 ug/L	82
47) 1,2,4-Trimethylbenzene...	15.904	105	4289	69.36 ug/L	78

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122015.D
Acq On : 12 Nov 2020 13:59
InstName : AG5975C
Operator : TD
Sample : 2011015-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 12 14:18:41 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



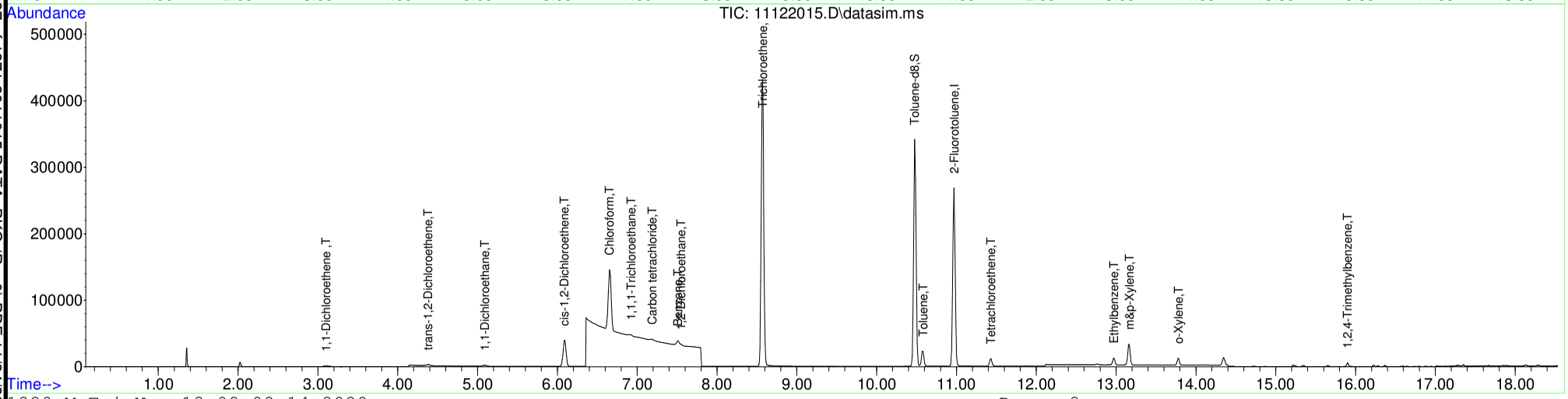
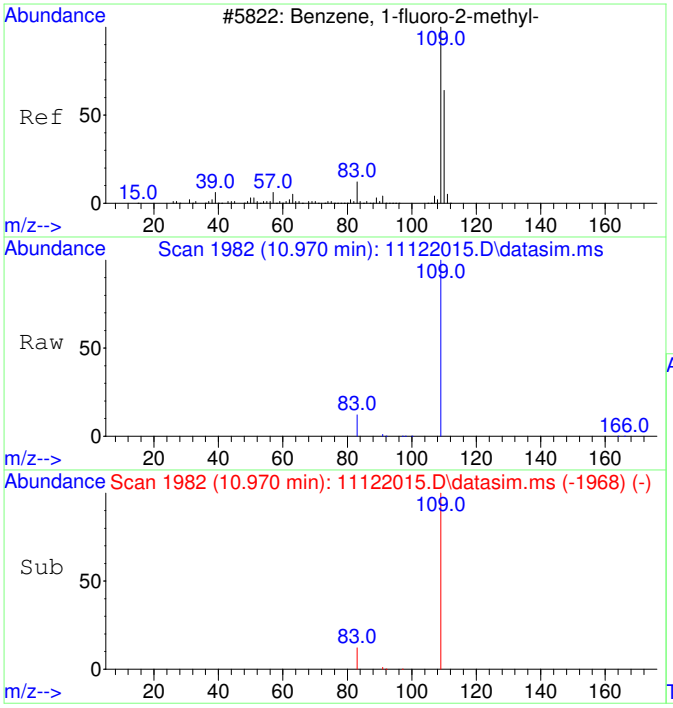


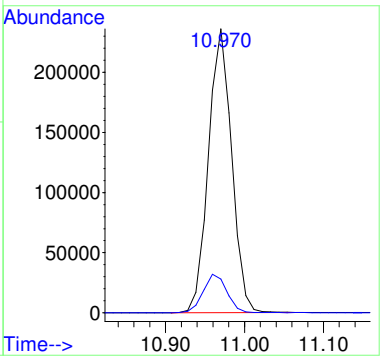
Table of Contents

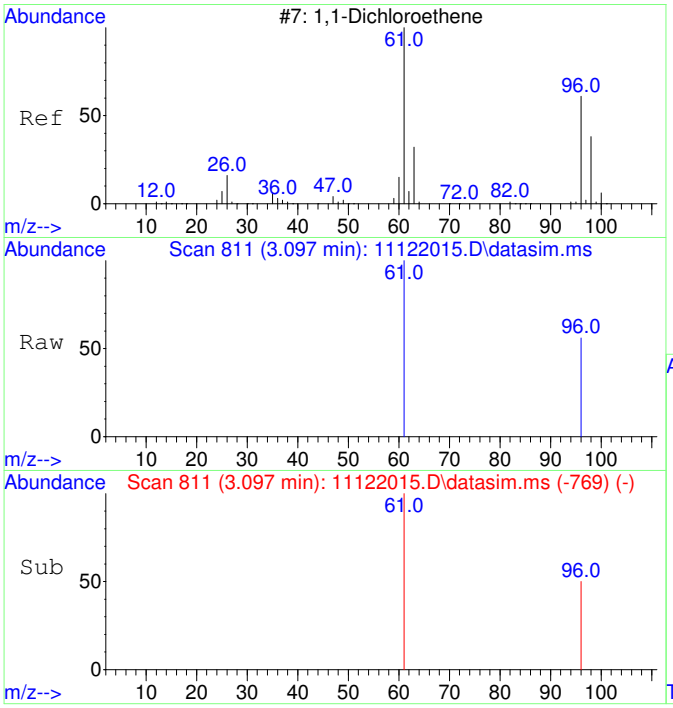


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:109 Resp: 481667

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

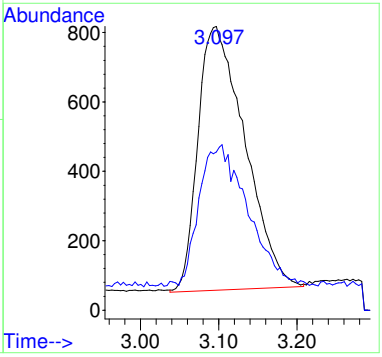


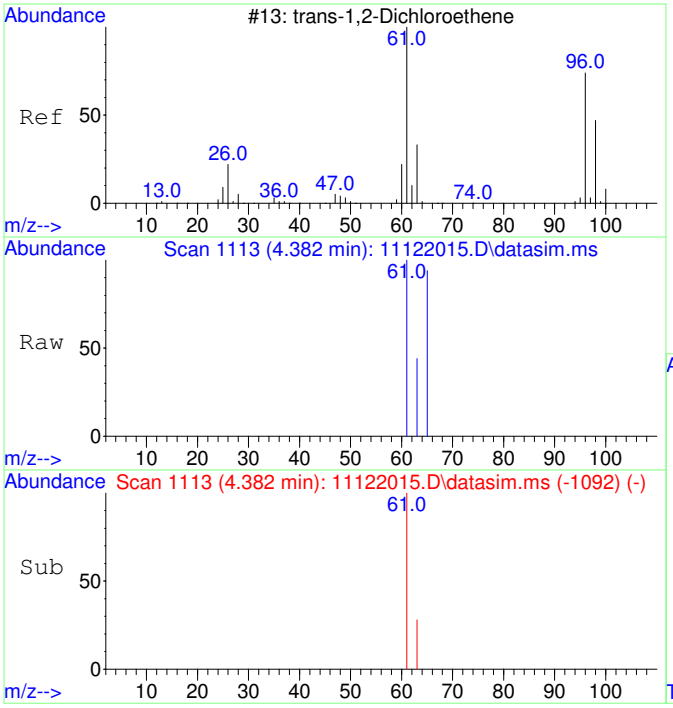


#2
1,1-Dichloroethene
Concen: 165.02 ug/L m
RT: 3.097 min Scan# 811
Delta R.T. 0.007 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 61 Resp: 3174

Ion	Ratio	Lower	Upper
61	100		
96	54.4	37.2	97.2

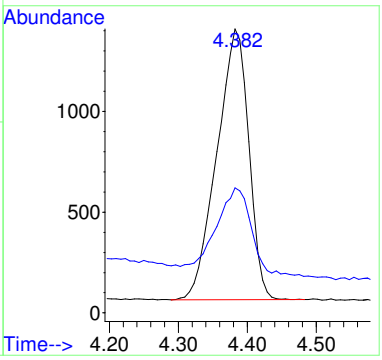


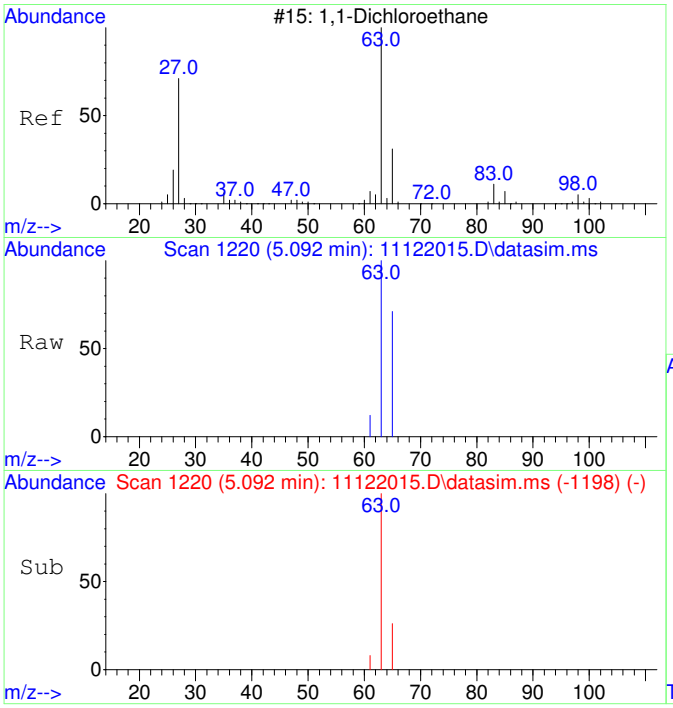


#3
trans-1,2-Dichloroethene
Concen: 194.22 ug/L
RT: 4.382 min Scan# 1113
Delta R.T. -0.013 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 61 Resp: 4316

Ion	Ratio	Lower	Upper
61	100		
63	39.9	2.4	62.4

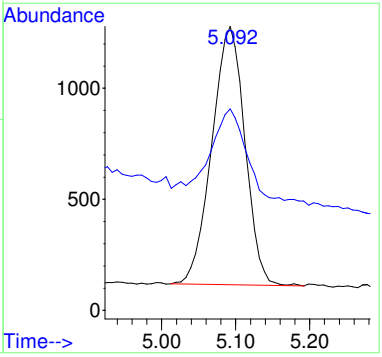


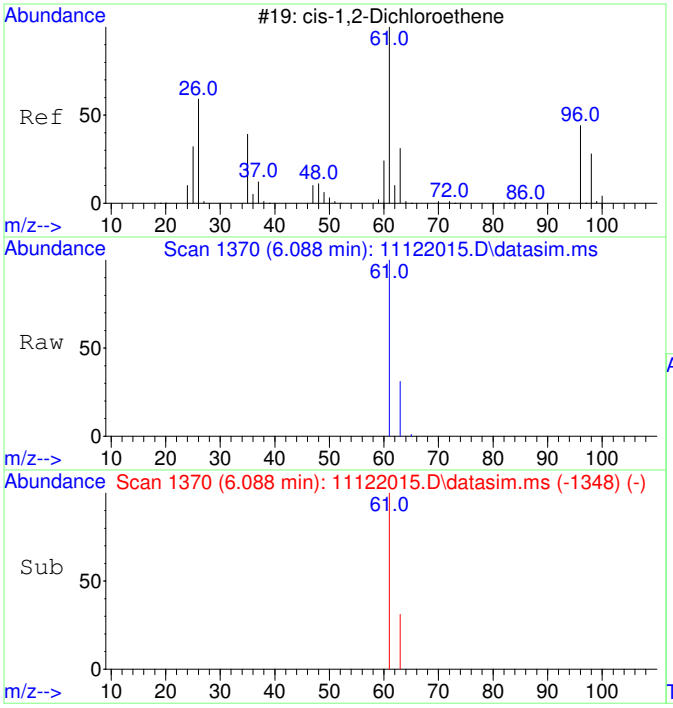


#4
1,1-Dichloroethane
Concen: 130.25 ug/L
RT: 5.092 min Scan# 1220
Delta R.T. -0.007 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 63 Resp: 3603

Ion	Ratio	Lower	Upper
63	100		
65	47.1	1.8	61.8

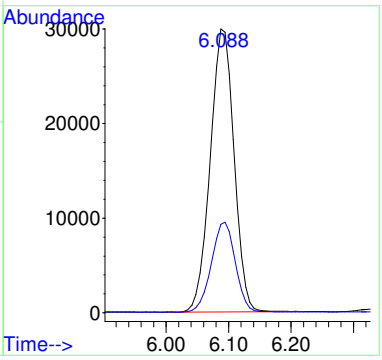


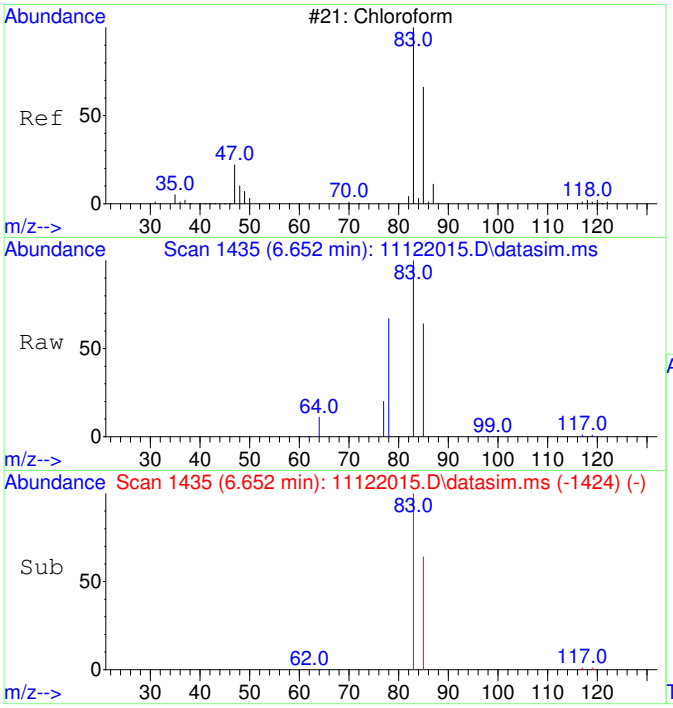


#5
cis-1,2-Dichloroethene
Concen: 2710.71 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 61 Resp: 79151

Ion	Ratio	Lower	Upper
61	100		
63	31.7	2.5	62.5

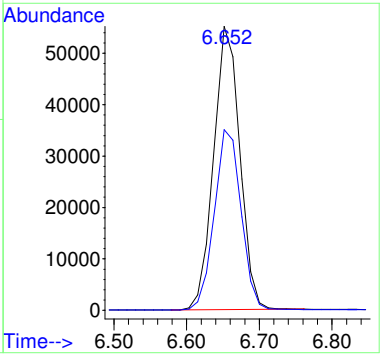


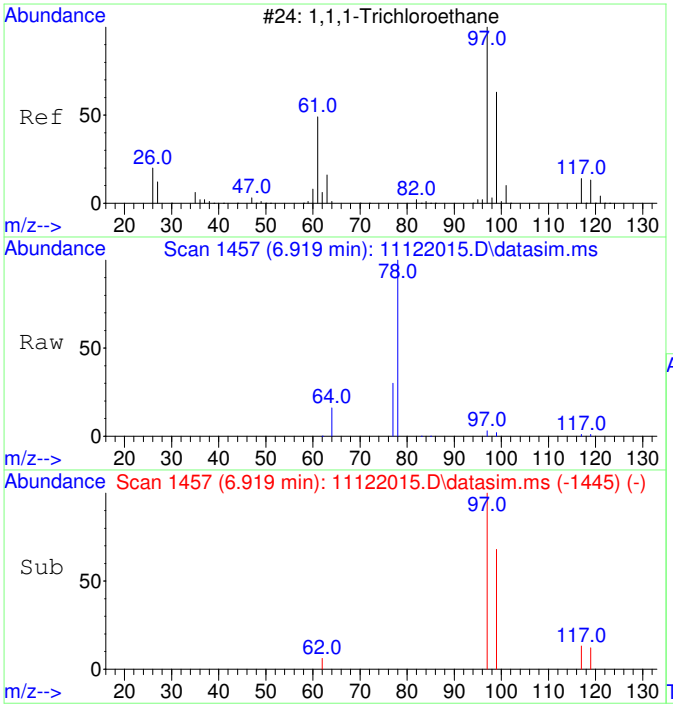


#6
Chloroform
Concen: 4632.90 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 83 Resp: 138462

Ion	Ratio	Lower	Upper
83	100		
85	64.7	35.1	95.1

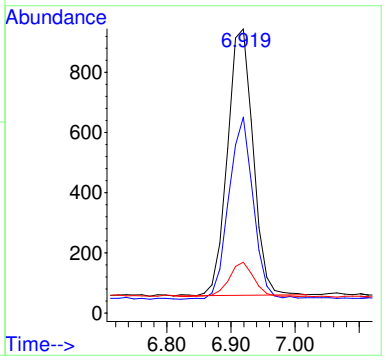


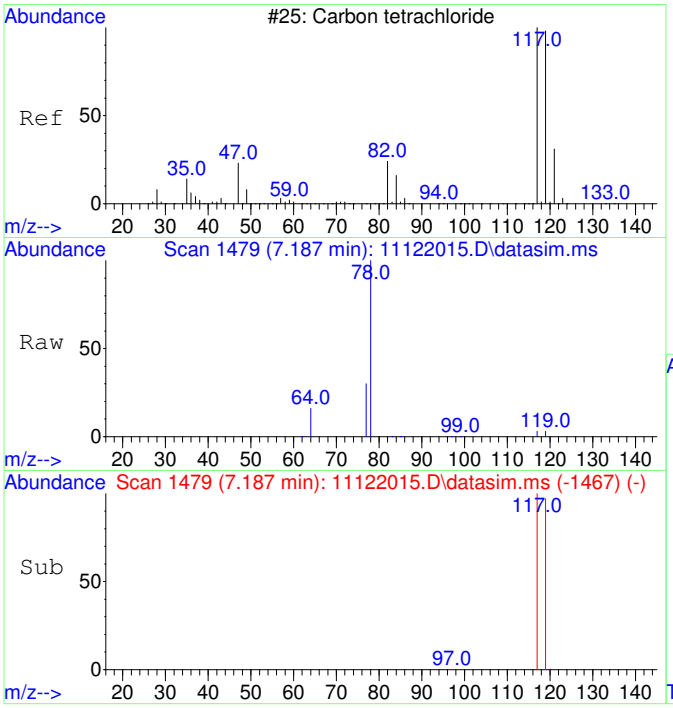


#7
1,1,1-Trichloroethane
Concen: 75.45 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 97 Resp: 2449

Ion	Ratio	Lower	Upper
97	100		
99	64.3	34.6	94.6
117	12.5	0.0	43.2

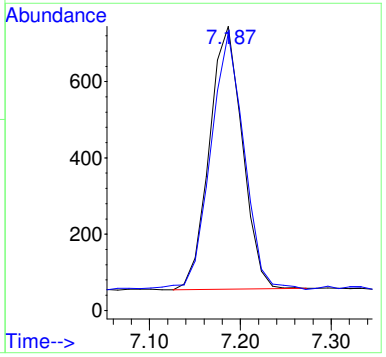


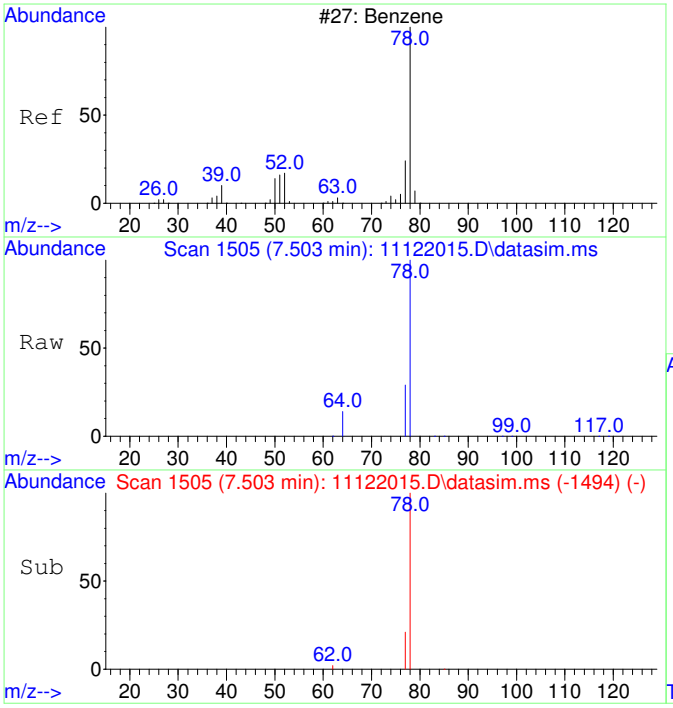


#8
Carbon tetrachloride
Concen: 57.15 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:117 Resp: 1746

Ion	Ratio	Lower	Upper
117	100		
119	97.7	66.4	126.4

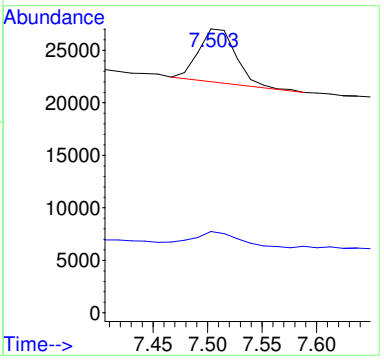


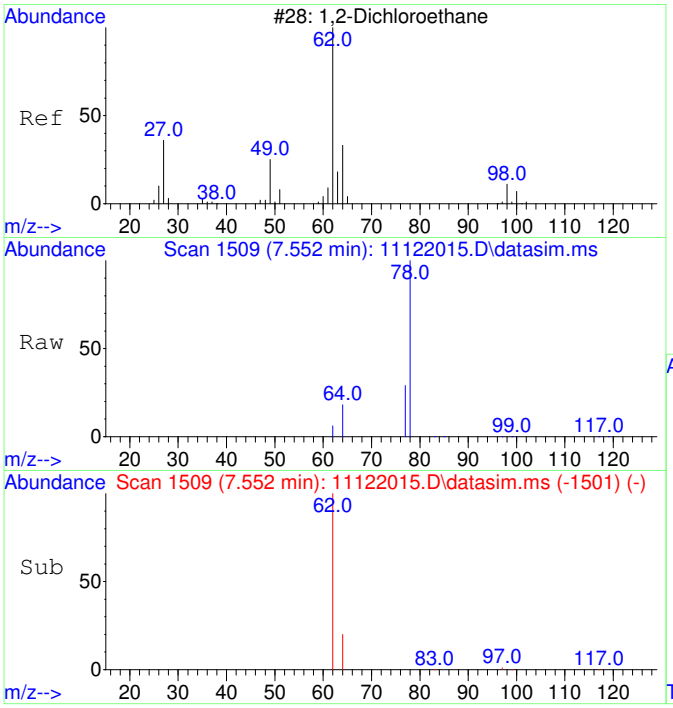


#9
Benzene
Concen: 143.26 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 78 Resp: 11724

Ion	Ratio	Lower	Upper
78	100		
77	41.8	0.0	53.2

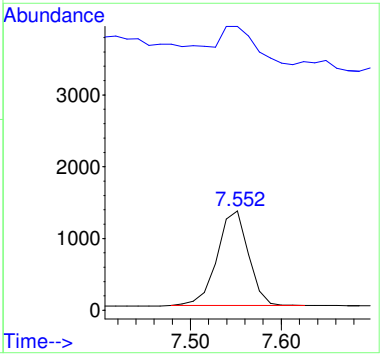


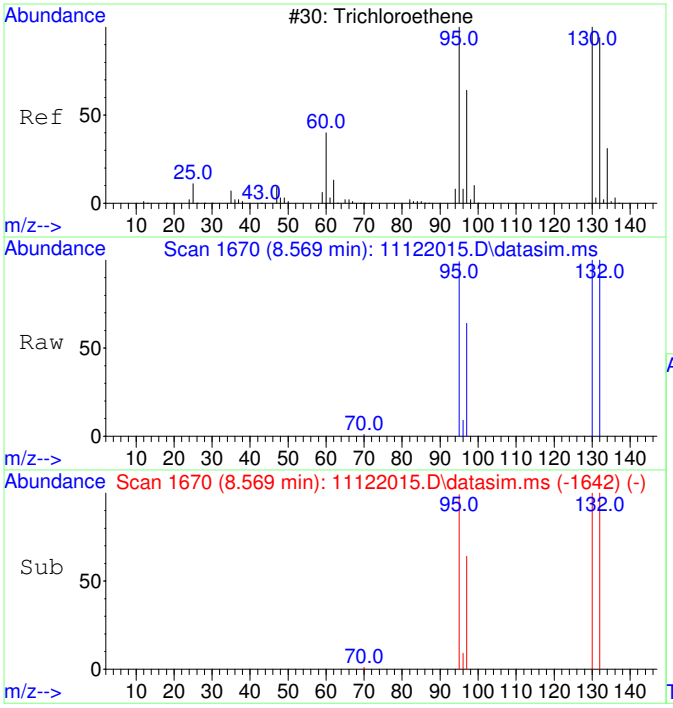


#10
1,2-Dichloroethane
Concen: 107.89 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 62 Resp: 3152

Ion	Ratio	Lower	Upper
62	100		
64	46.4	2.3	62.3

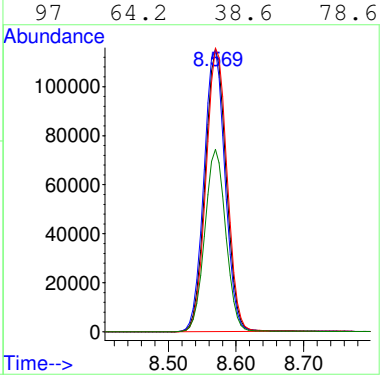


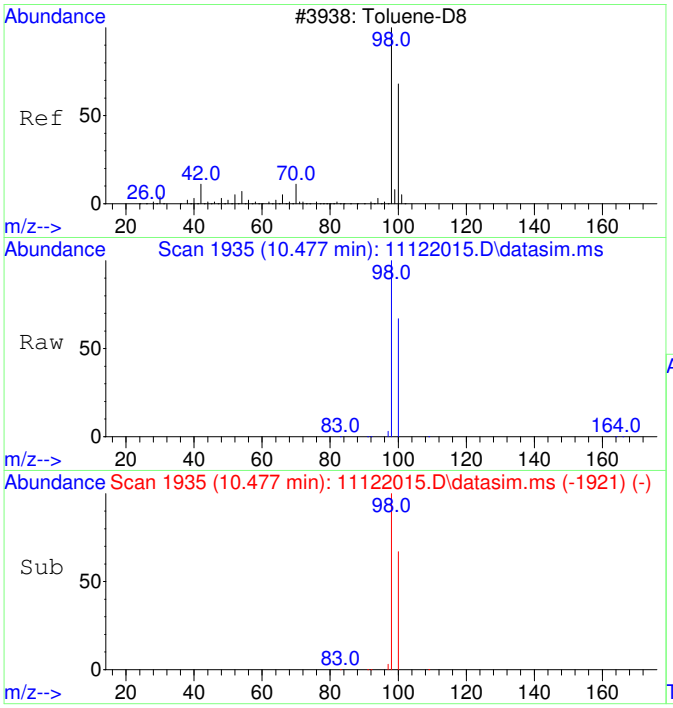


#11
Trichloroethene
Concen: 10084.24 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:130 Resp: 248479

Ion	Ratio	Lower	Upper
130	100		
95	100.3	60.7	120.7
132	100.4	76.0	116.0
97	64.2	38.6	78.6

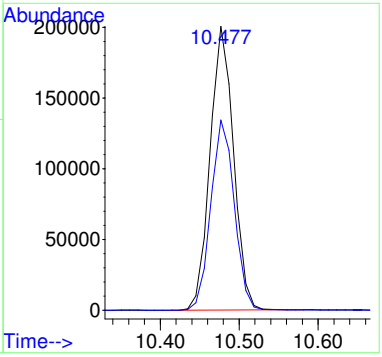


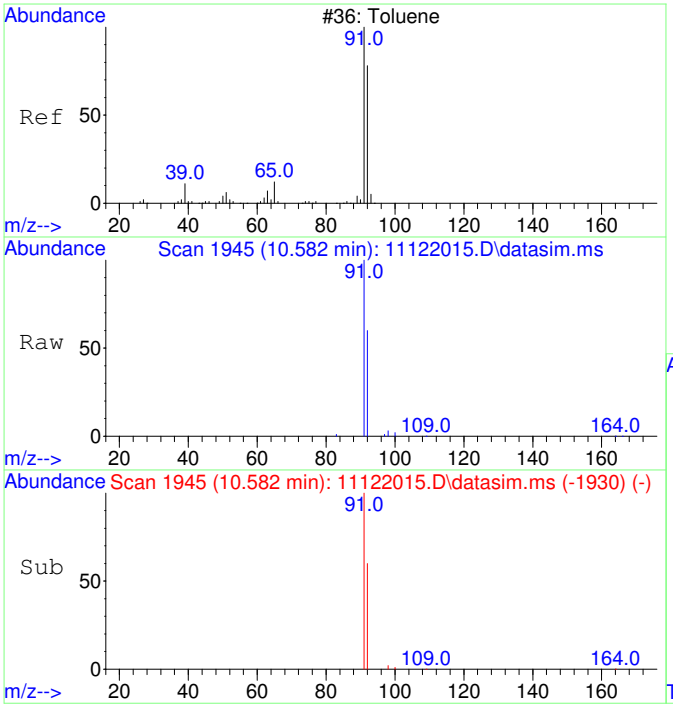


#12
Toluene-d8
Concen: 4377.01 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 98 Resp: 412715

Ion	Ratio	Lower	Upper
98	100		
100	67.1	37.1	97.1

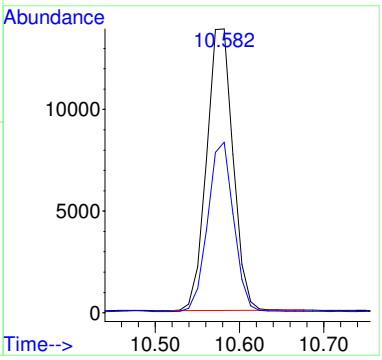


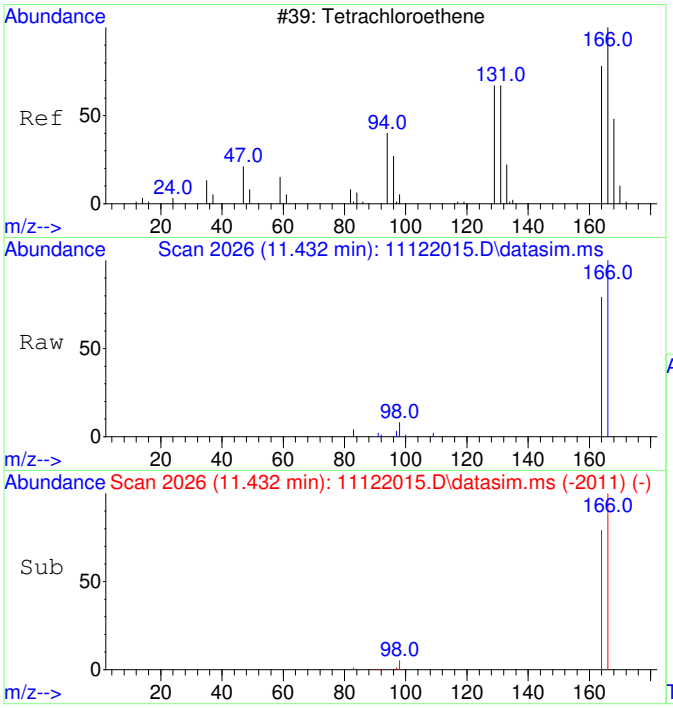


#13
Toluene
Concen: 251.92 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 30284

Ion	Ratio	Lower	Upper
91	100		
92	58.6	29.9	89.9

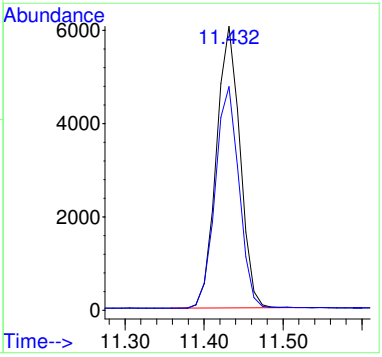


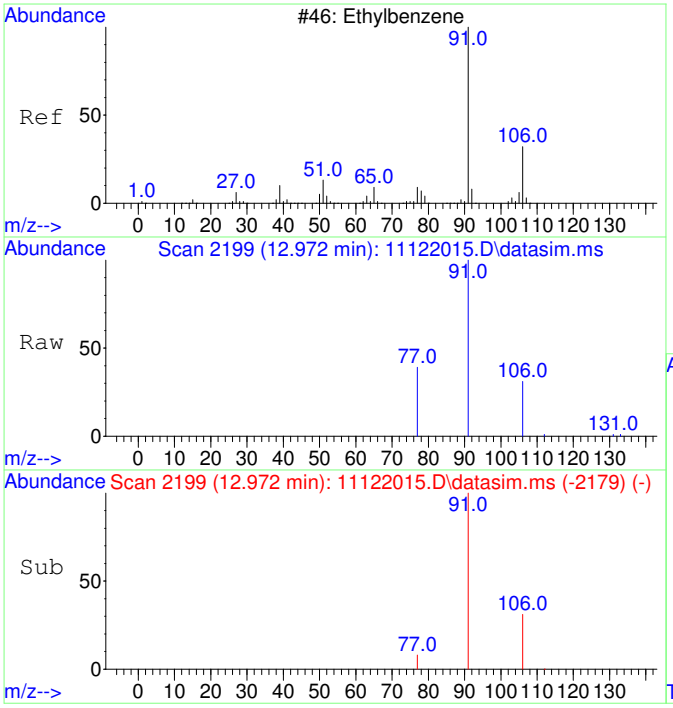


#15
Tetrachloroethene
Concen: 359.36 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:166 Resp: 12502

Ion	Ratio	Lower	Upper
166	100		
164	79.0	47.8	107.8

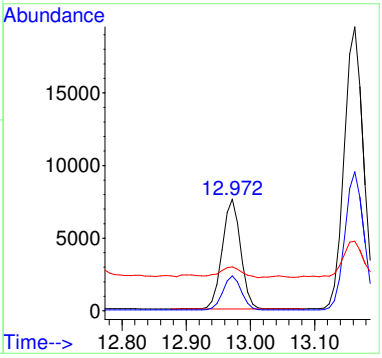


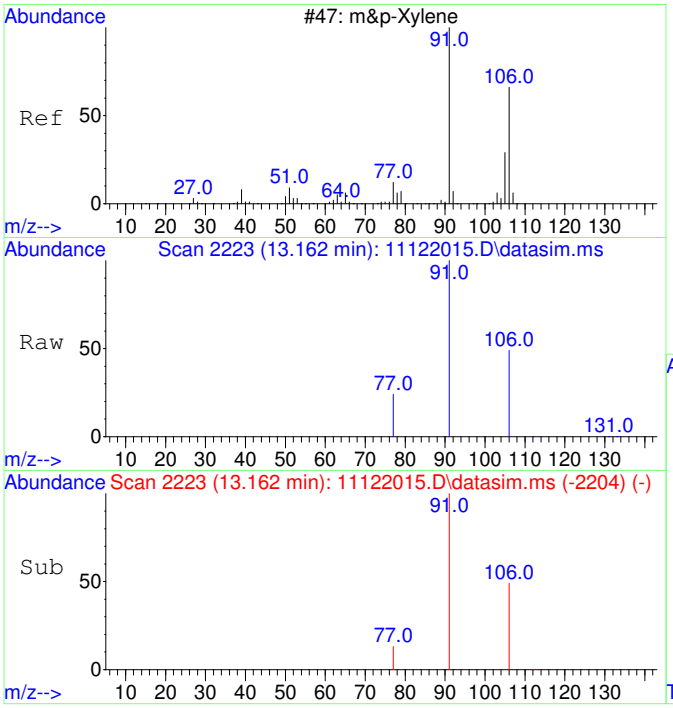


#18
Ethylbenzene
Concen: 102.11 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 14941

Ion	Ratio	Lower	Upper
91	100		
106	31.3	3.0	63.0
77	11.9	0.0	38.2

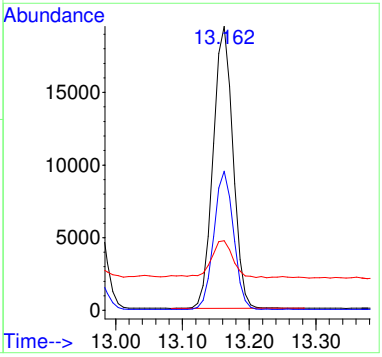


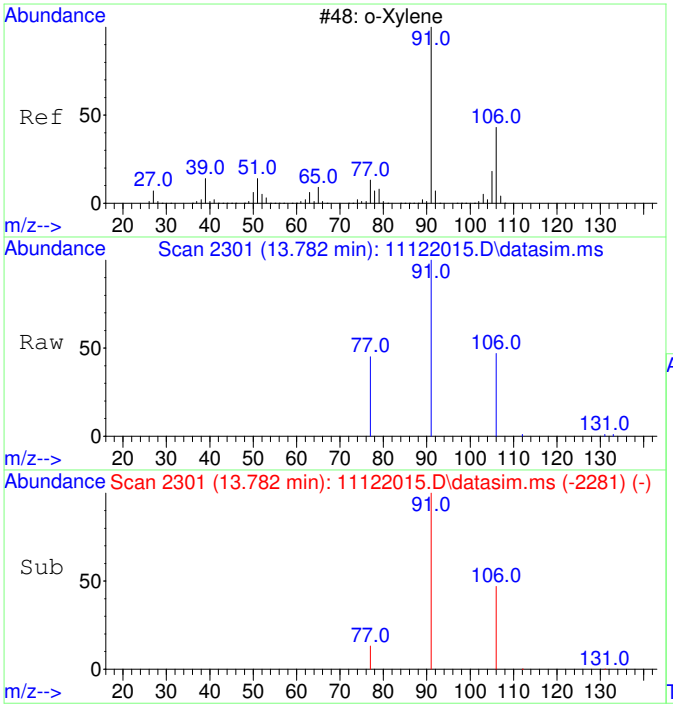


#19
m&p-Xylene
Concen: 349.33 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 39950

Ion	Ratio	Lower	Upper
91	100		
106	48.8	22.2	82.2
77	14.2	0.0	42.4

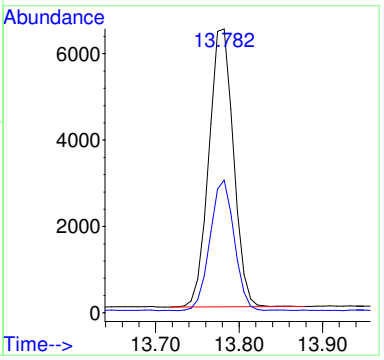


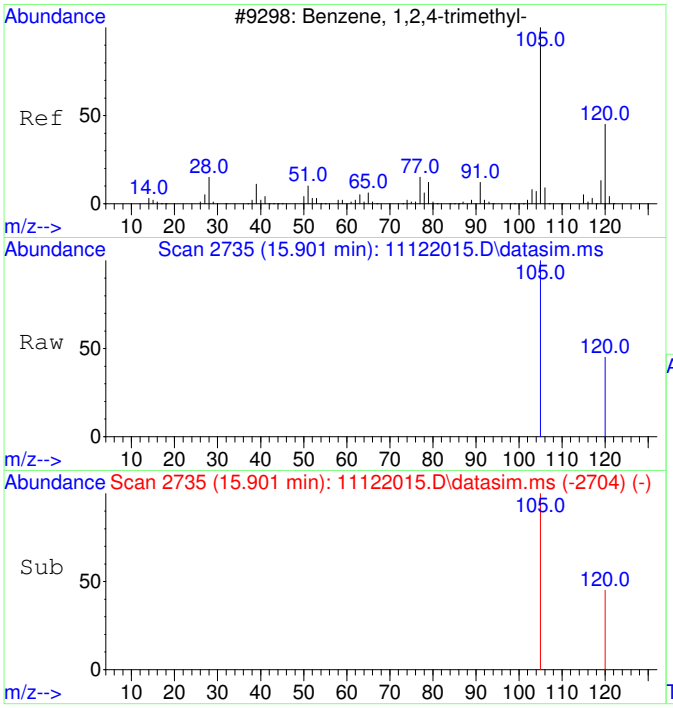


#20
o-Xylene
Concen: 107.91 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 13185

Ion	Ratio	Lower	Upper
91	100		
106	46.2	19.2	79.2

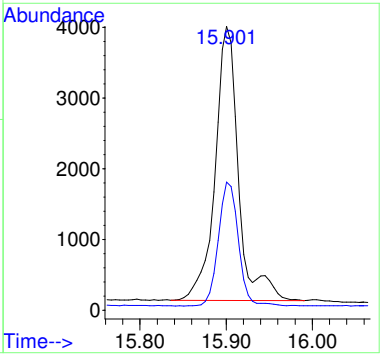


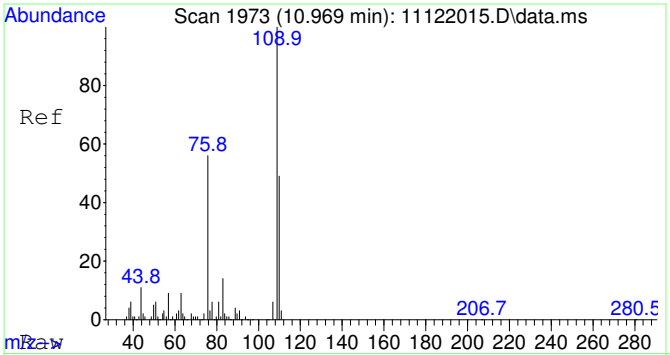


#23
1,2,4-Trimethylbenzene
Concen: 53.98 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:105 Resp: 7292

Ion	Ratio	Lower	Upper
105	100		
120	38.5	17.2	77.2

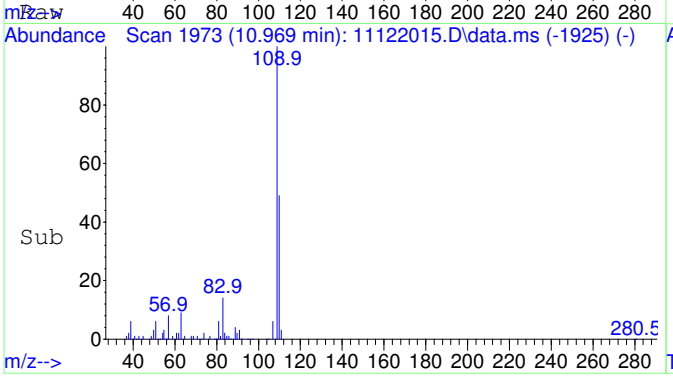


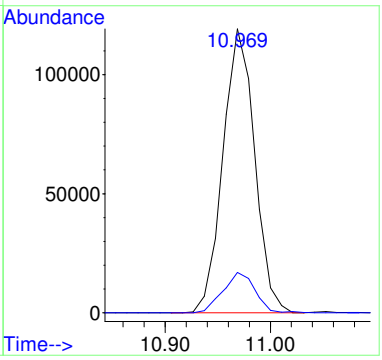


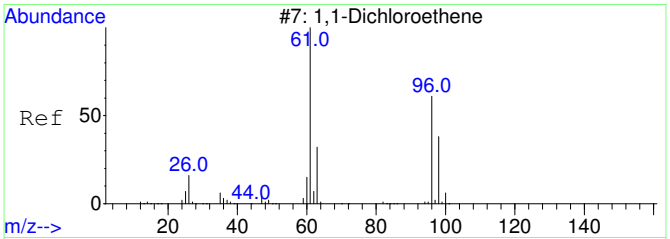
#25
2-Fluorotoluene SCAN
Concen: 5323.21 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:109 Resp: 249944

Ion	Ratio	Lower	Upper
109	100		
83	14.4	0.0	43.8



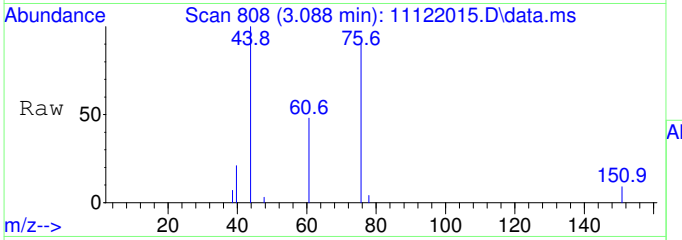


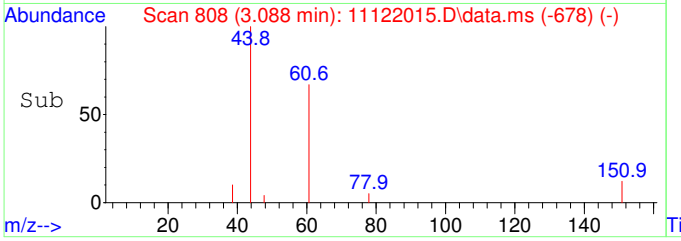


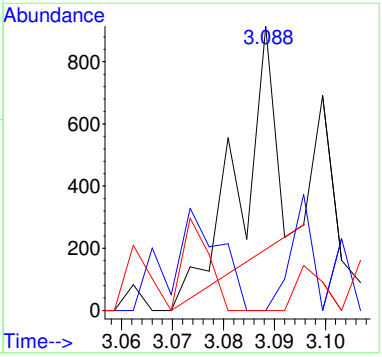
#26
1,1-Dichloroethene SCAN
Concen: 33.70 ug/L
RT: 3.088 min Scan# 808
Delta R.T. -0.019 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

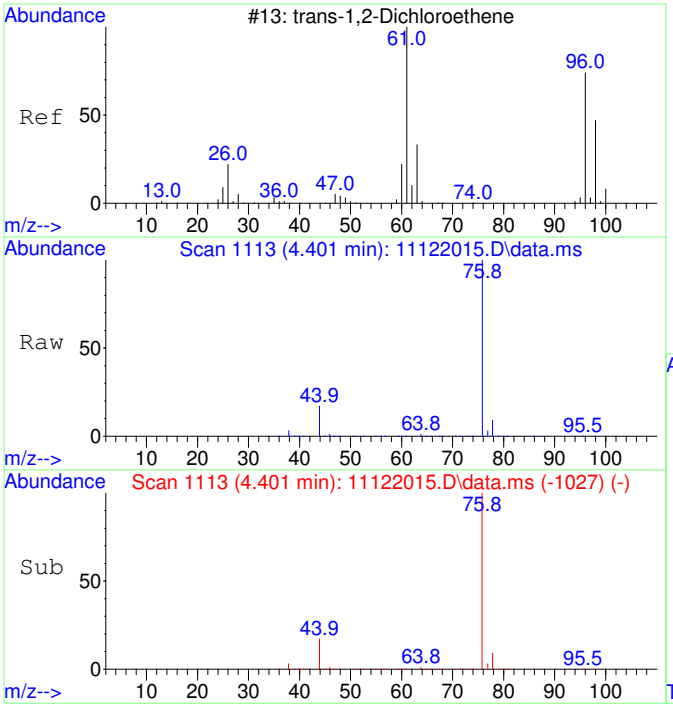
Tgt Ion: 61 Resp: 336

Ion	Ratio	Lower	Upper
61	100		
96	46.7	33.1	93.1
98	15.8	11.2	71.2





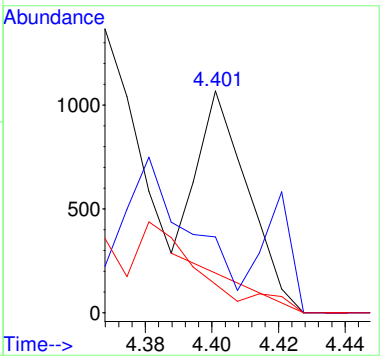


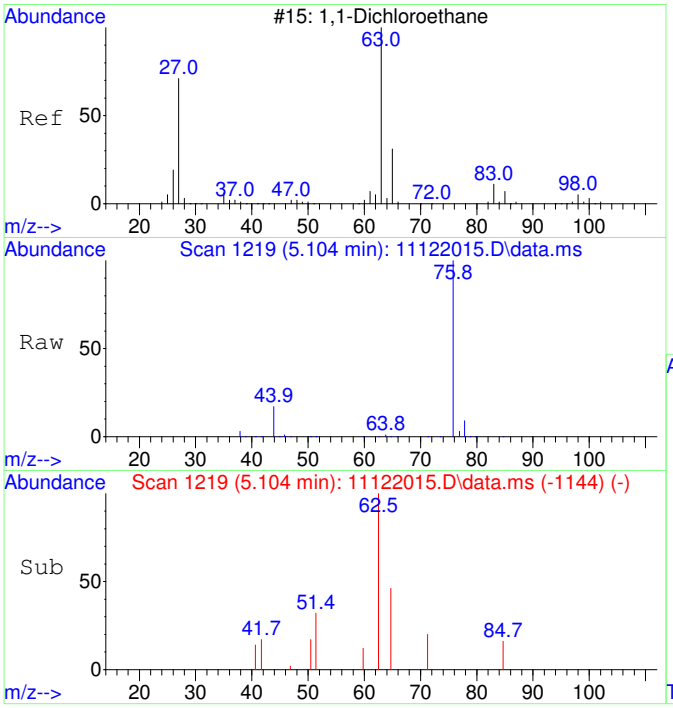


#27
trans-1,2-Dichloroethene SCAN
Concen: 68.89 ug/L
RT: 4.401 min Scan# 1113
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 61 Resp: 850

Ion	Ratio	Lower	Upper
61	100		
96	33.3	49.0	109.0#
98	0.0	20.5	80.5#

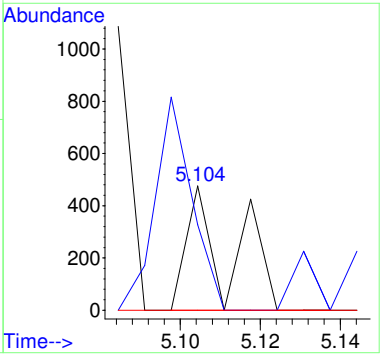


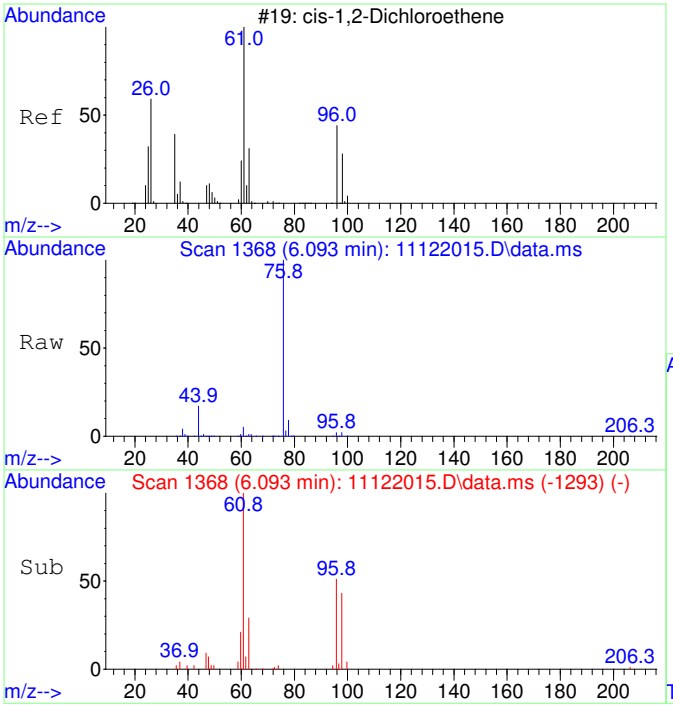


#28
1,1-Dichloroethane SCAN
Concen: 25.14 ug/L
RT: 5.104 min Scan# 1219
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 63 Resp: 359

Ion	Ratio	Lower	Upper
63	100		
65	145.7	1.3	61.3#
83	0.0	0.0	45.9

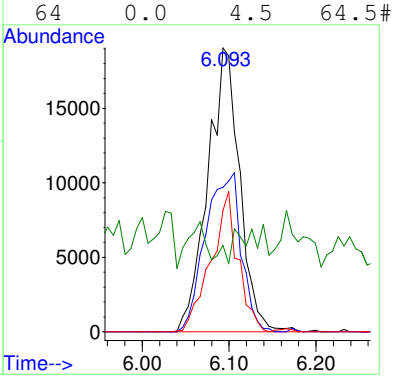


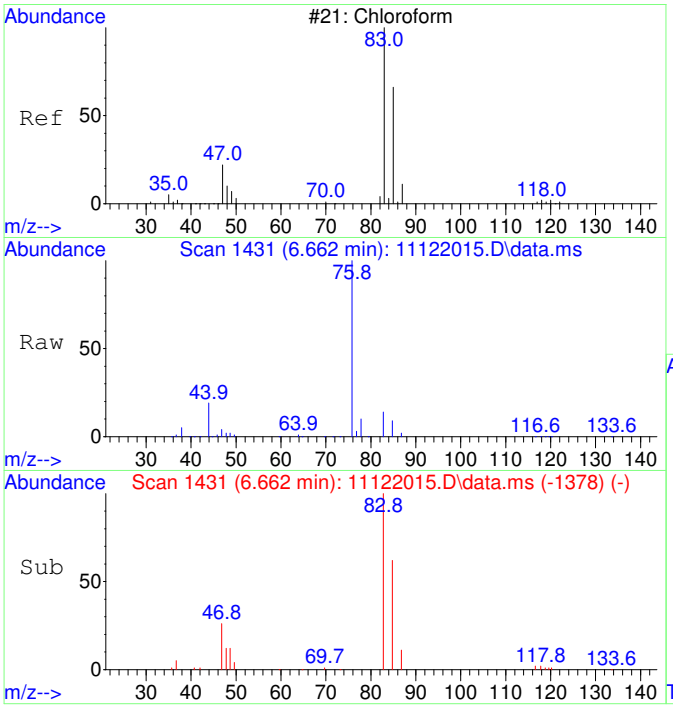


#29
cis-1,2-Dichloroethene SCAN
Concen: 3178.27 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 61 Resp: 48627

Ion	Ratio	Lower	Upper
61	100		
96	62.4	39.9	99.9
98	41.9	13.5	73.5
64	0.0	4.5	64.5#

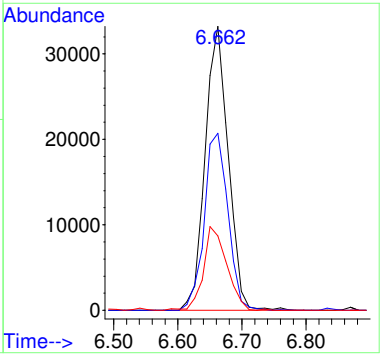


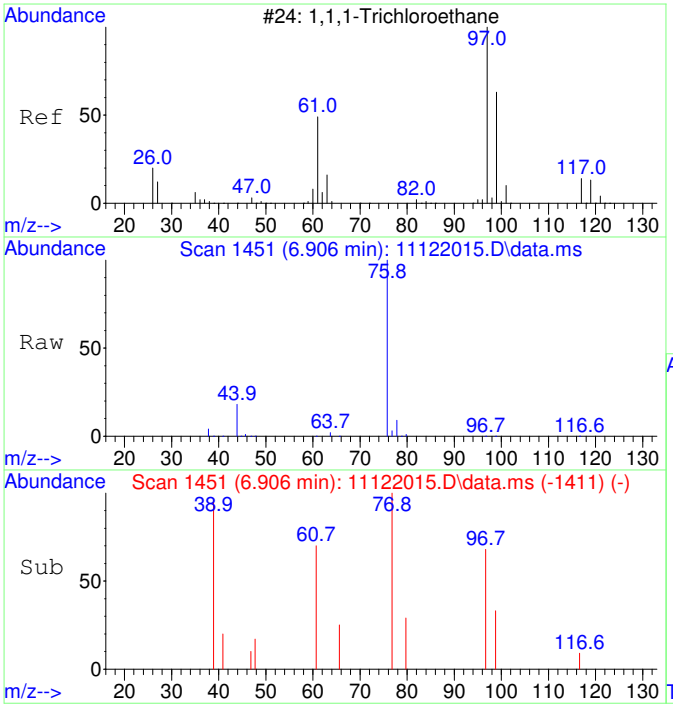


#30
Chloroform SCAN
Concen: 5008.31 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 83 Resp: 83112

Ion	Ratio	Lower	Upper
83	100		
85	63.9	34.6	94.6
47	29.7	0.0	53.4

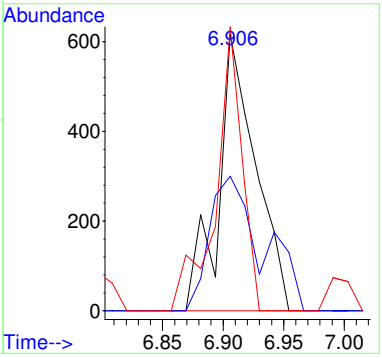


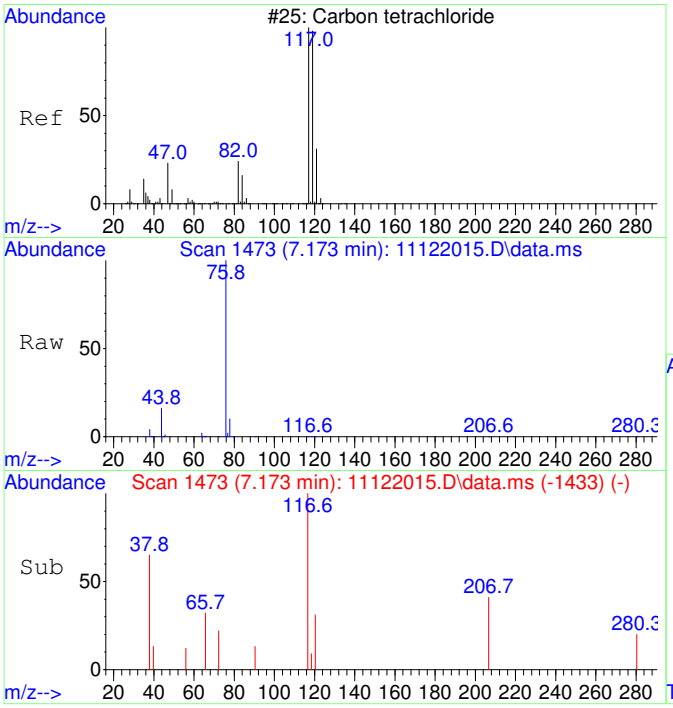


#31
1,1,1-Trichloroethane SCAN
Concen: 87.22 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 97 Resp: 1319

Ion	Ratio	Lower	Upper
97	100		
99	69.1	43.6	103.6
61	72.7	18.0	78.0

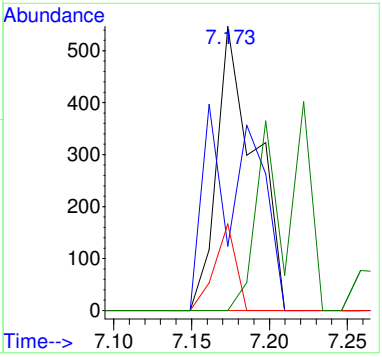


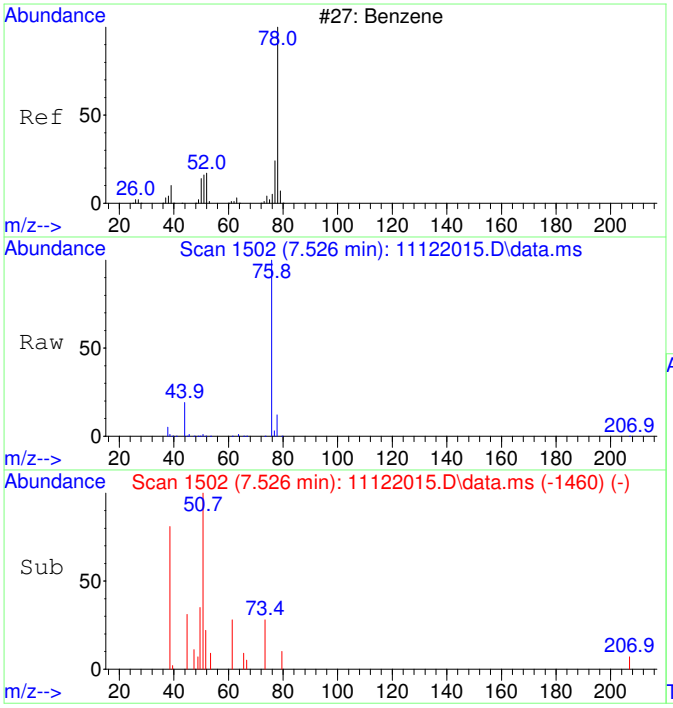


#32
Carbon tetrachloride SCAN
Concen: 59.53 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.012 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:117 Resp: 939

Ion	Ratio	Lower	Upper
117	100		
119	88.7	75.5	135.5
121	17.1	0.0	58.8
82	0.0	0.0	59.2

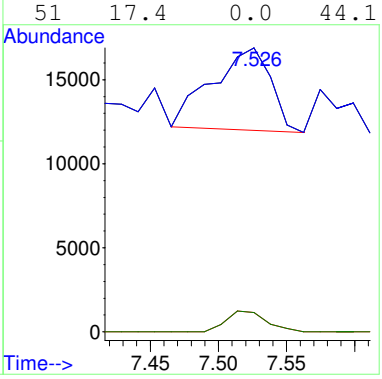


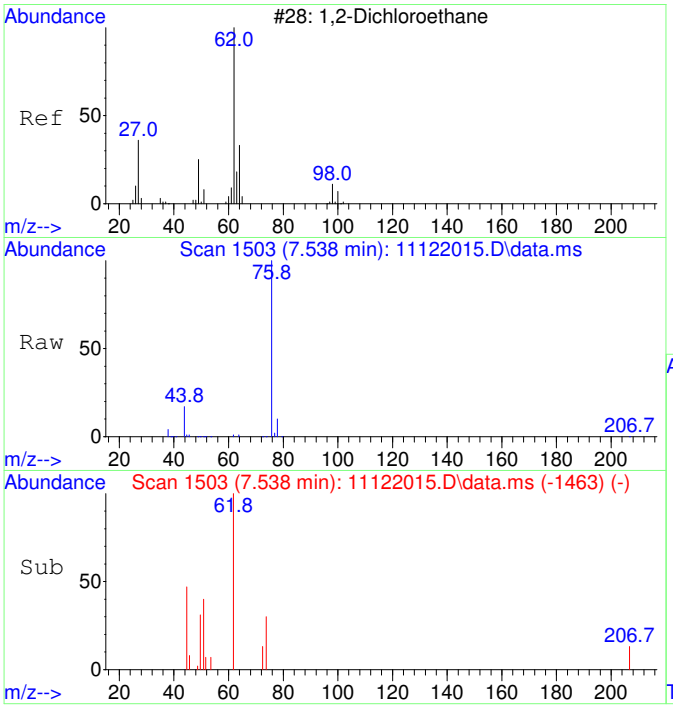


#33
Benzene SCAN
Concen: 349.99 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. 0.012 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 78 Resp: 14573

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	17.4	0.0	47.9
51	17.4	0.0	44.1

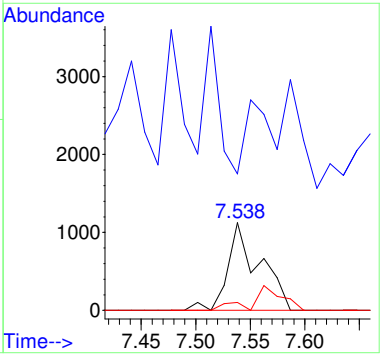


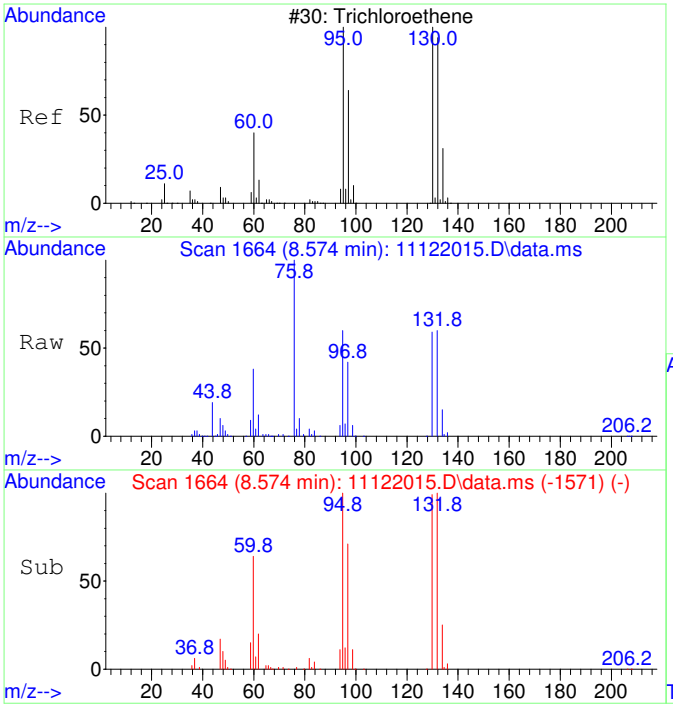


#34
1,2-Dichloroethane SCAN
Concen: 147.64 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 62 Resp: 2270

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

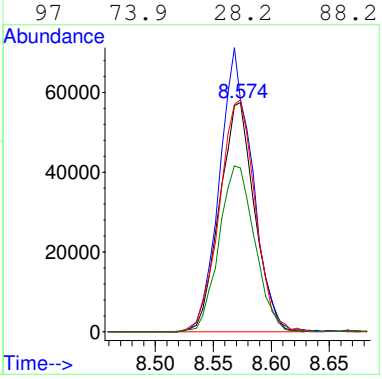


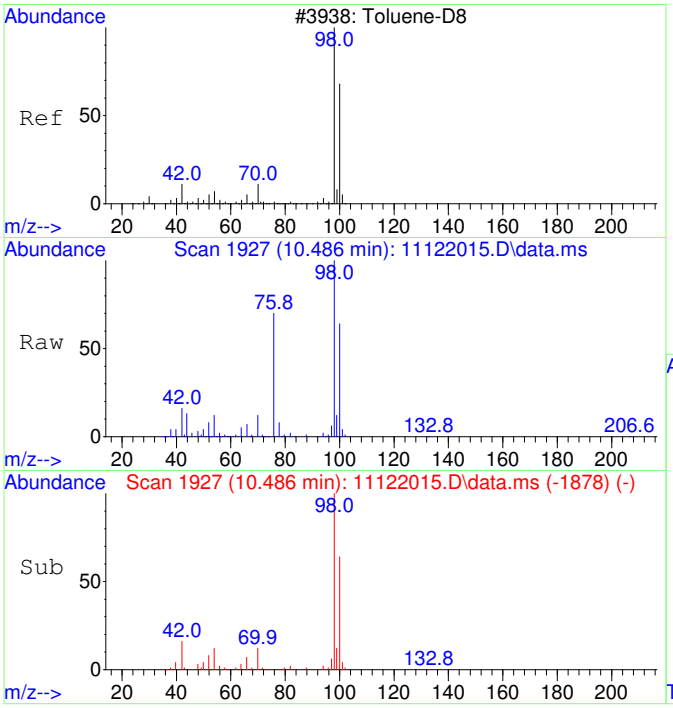


#35
Trichloroethene SCAN
Concen: 10593.94 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.005 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:130 Resp: 121220

Ion	Ratio	Lower	Upper
130	100		
95	116.3	60.5	120.5
132	103.6	59.6	119.6
97	73.9	28.2	88.2

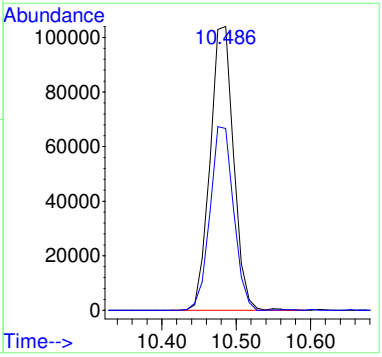


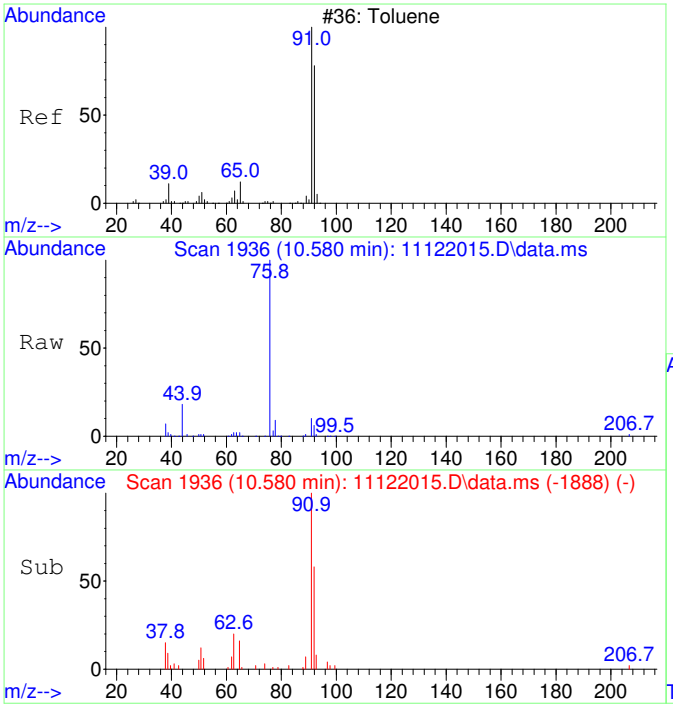


#36
Toluene-d8 SCAN
Concen: 4977.89 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 98 Resp: 228581

Ion	Ratio	Lower	Upper
98	100		
100	64.9	40.0	100.0

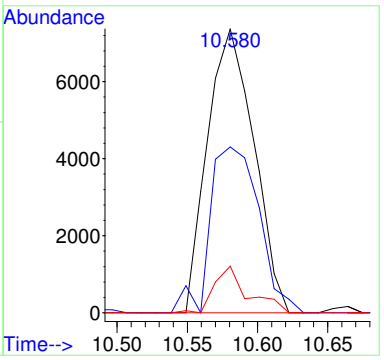


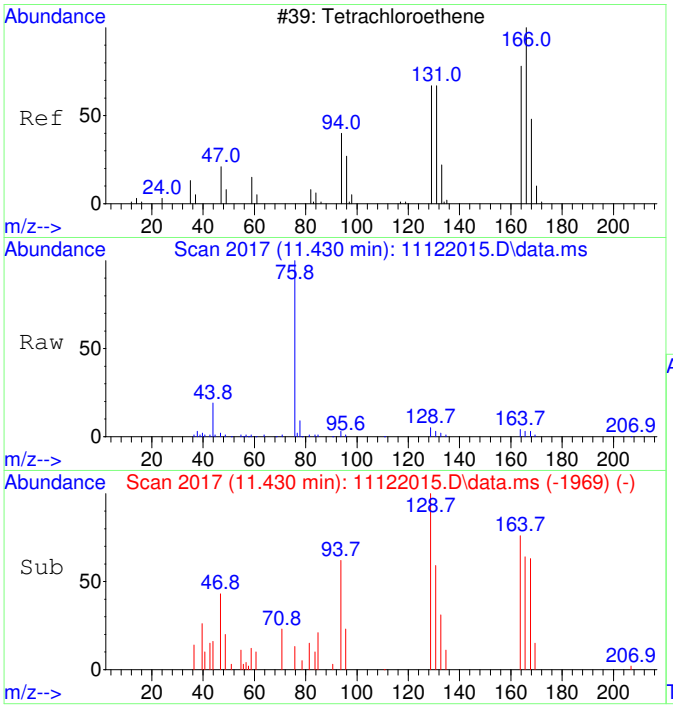


#37
Toluene SCAN
Concen: 289.53 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 17026

Ion	Ratio	Lower	Upper
91	100		
92	61.8	28.3	88.3
65	11.8	0.0	41.0

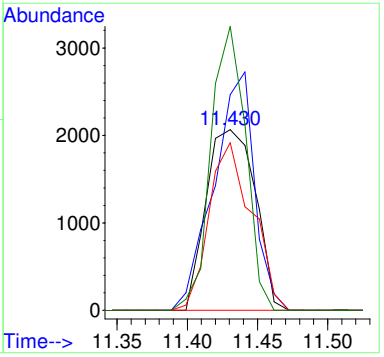


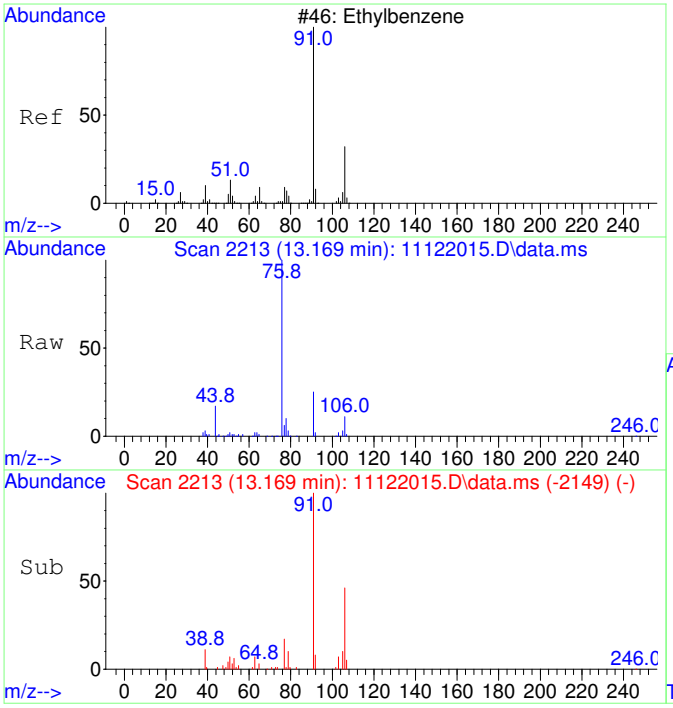


#39
Tetrachloroethene SCAN
Concen: 358.08 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:166 Resp: 5059

Ion	Ratio	Lower	Upper
166	100		
164	108.8	50.9	110.9
131	80.7	38.7	98.7
129	110.8	41.8	101.8#

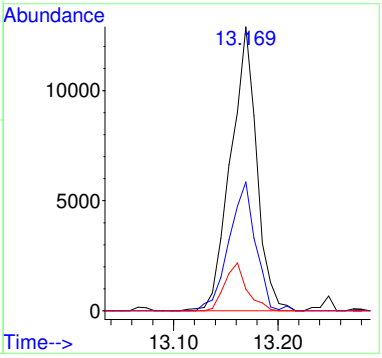


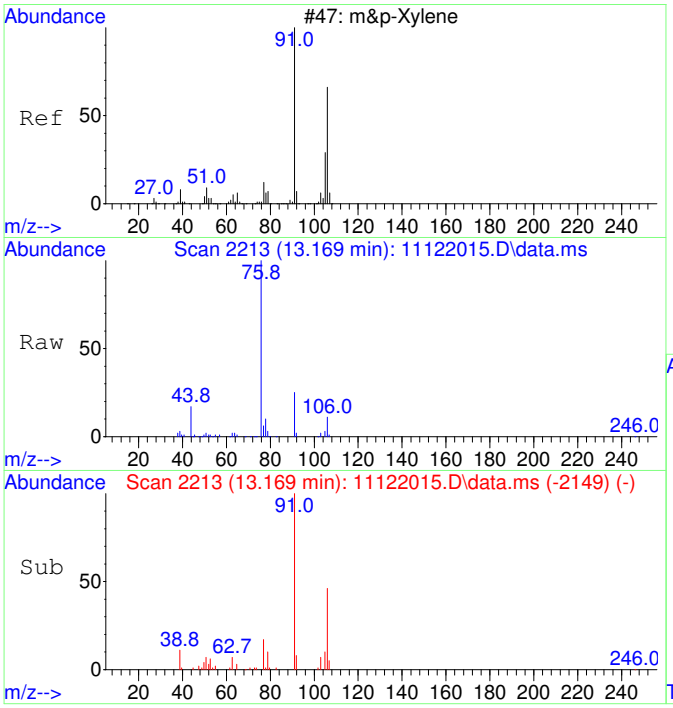


#42
Ethylbenzene SCAN
Concen: 207.92 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 22276

Ion	Ratio	Lower	Upper
91	100		
106	46.5	23.1	83.1
51	14.4	0.0	40.1

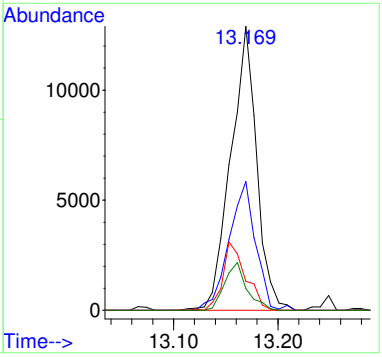


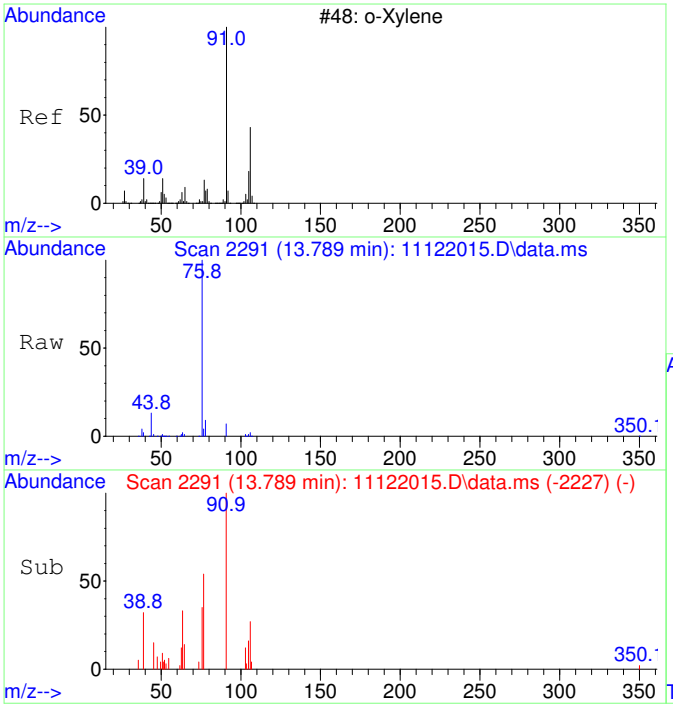


#43
m&p-Xylene SCAN
Concen: 207.92 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 22276

Ion	Ratio	Lower	Upper
91	100		
106	46.5	23.1	83.1
105	21.1	0.0	54.7
51	14.4	0.0	40.1

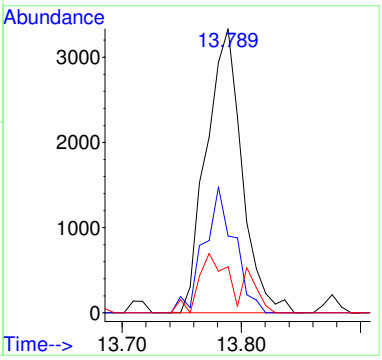


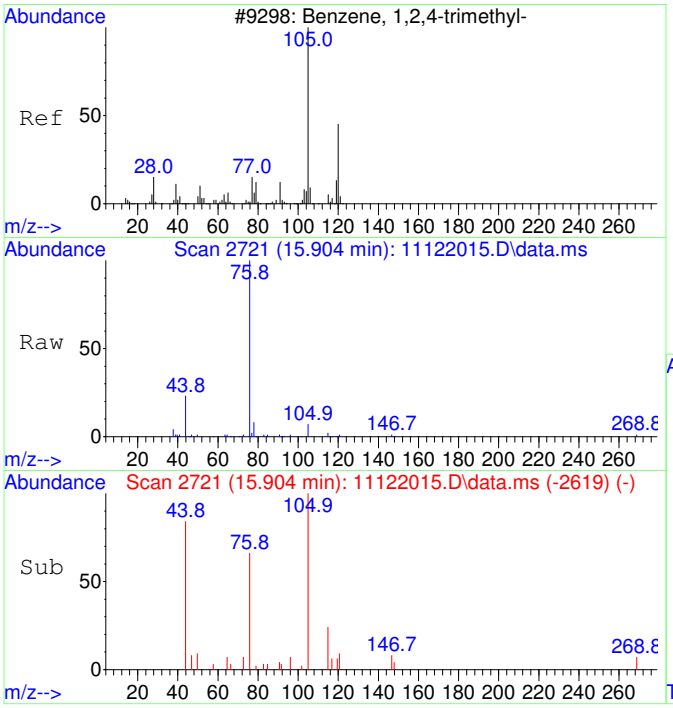


#44
o-Xylene SCAN
Concen: 120.83 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. 0.008 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion: 91 Resp: 6929

Ion	Ratio	Lower	Upper
91	100		
106	38.0	18.0	78.0
105	14.1	0.0	56.6

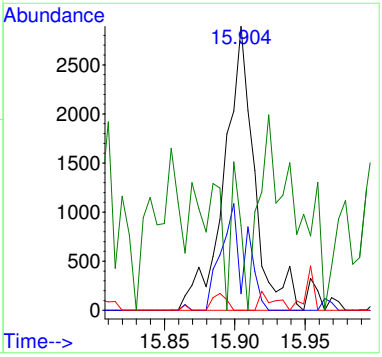




#47
1,2,4-Trimethylbenzene SCAN
Concen: 69.36 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122015.D
Acq: 12 Nov 2020 13:59

Tgt Ion:105 Resp: 4289

Ion	Ratio	Lower	Upper
105	100		
120	30.2	16.9	76.9
119	2.8	0.0	41.9
77	16.5	0.0	42.3



2011015-08

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122016.D
Acq On : 12 Nov 2020 14:23
InstName : AG5975C
Operator : TD
Sample : 2011015-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 13 06:13:00 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

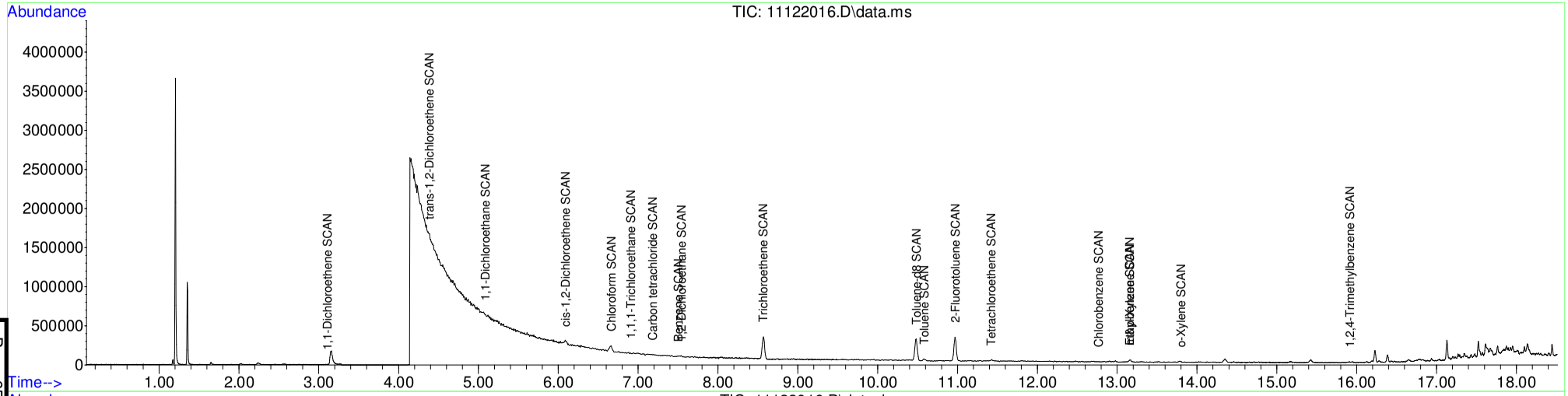
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	454338	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	392762	4415.96	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.32%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.093	61	2670	147.17	ug/L #	40
3] trans-1,2-Dichloroethene	4.376	61	3186	151.99	ug/L	96
4] 1,1-Dichloroethane	5.086	63	2594	99.41	ug/L	90
5] cis-1,2-Dichloroethene	6.088	61	57708	2095.22	ug/L	98
6] Chloroform	6.652	83	113825	4037.64	ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	1836	59.97	ug/L	98
8] Carbon tetrachloride	7.187	117	1781	61.81	ug/L	99
9] Benzene	7.503	78	13521	175.15	ug/L	85
10] 1,2-Dichloroethane	7.540	62	2014	73.09	ug/L	64
11] Trichloroethene	8.569	130	189533	8154.67	ug/L	93
13] Toluene	10.582	91	33547	295.85	ug/L	99
15] Tetrachloroethene	11.432	166	9572	291.69	ug/L	100
16] Chlorobenzene	12.765	112	1757	21.64	ug/L	72
18] Ethylbenzene	12.972	91	13379	96.93	ug/L	97
19] m&p-Xylene	13.162	91	34620	320.93	ug/L	95
20] o-Xylene	13.774	91	11600	100.65	ug/L	95
22] 1,3,5-Trimethylbenzene	15.345	105	2512	20.48	ug/L	93
23] 1,2,4-Trimethylbenzene	15.901	105	9477	74.38	ug/L	88
25) 2-Fluorotoluene SCAN	10.969	109	236180	5332.63	ug/L	96
26) 1,1-Dichloroethene SCAN	3.111	61	712	75.70	ug/L #	49
27) trans-1,2-Dichloroethe...	4.388	61	1573	135.15	ug/L #	59
28) 1,1-Dichloroethane SCAN	5.091	63	1111	82.48	ug/L #	83
29) cis-1,2-Dichloroethene...	6.093	61	36589	2535.31	ug/L #	80
30) Chloroform SCAN	6.662	83	64654	4130.39	ug/L	95
31) 1,1,1-Trichloroethane ...	6.906	97	1031	72.28	ug/L #	64
32) Carbon tetrachloride SCAN	7.186	117	1743	117.14	ug/L #	24
33) Benzene SCAN	7.502	78	19995	509.10	ug/L	96
34) 1,2-Dichloroethane SCAN	7.538	62	1101	75.92	ug/L #	1
35) Trichloroethene SCAN	8.568	130	93191	8634.26	ug/L	82
36) Toluene-d8 SCAN	10.486	98	213808	4936.25	ug/L	95
37) Toluene SCAN	10.580	91	18099	326.29	ug/L	91
39) Tetrachloroethene SCAN	11.420	166	6533	490.23	ug/L	76
40) Chlorobenzene SCAN	12.764	112	848	22.37	ug/L #	34
42) Ethylbenzene SCAN	13.161	91	19468	192.64	ug/L	91
43) m&p-Xylene SCAN	13.161	91	19468	192.64	ug/L	93
44) o-Xylene SCAN	13.797	91	6999	129.39	ug/L	86
47) 1,2,4-Trimethylbenzene...	15.909	105	4942	84.72	ug/L	84

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122016.D
Acq On : 12 Nov 2020 14:23
InstName : AG5975C
Operator : TD
Sample : 2011015-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 13 06:13:00 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



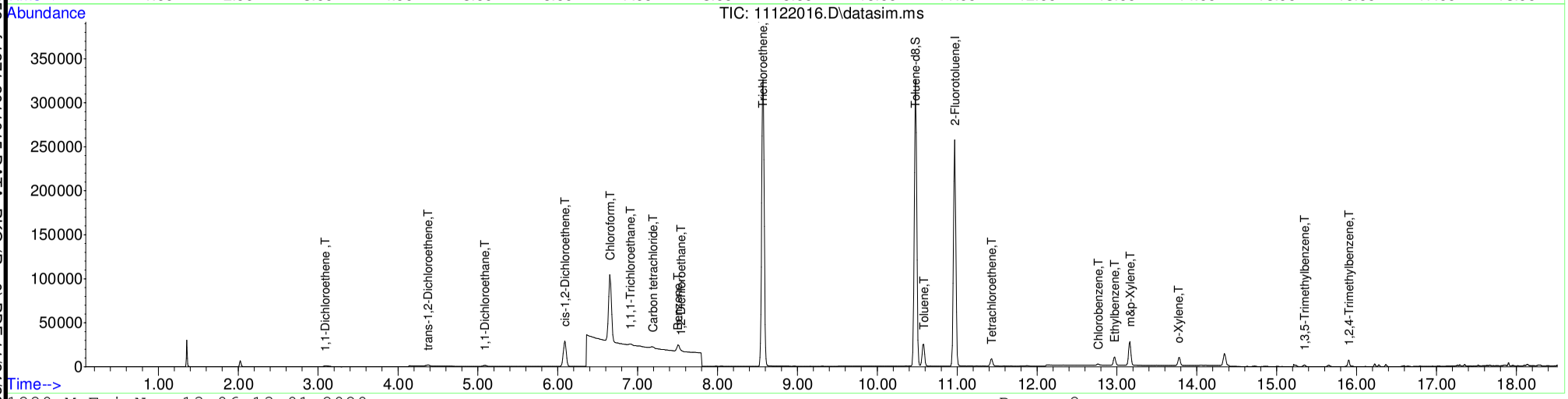
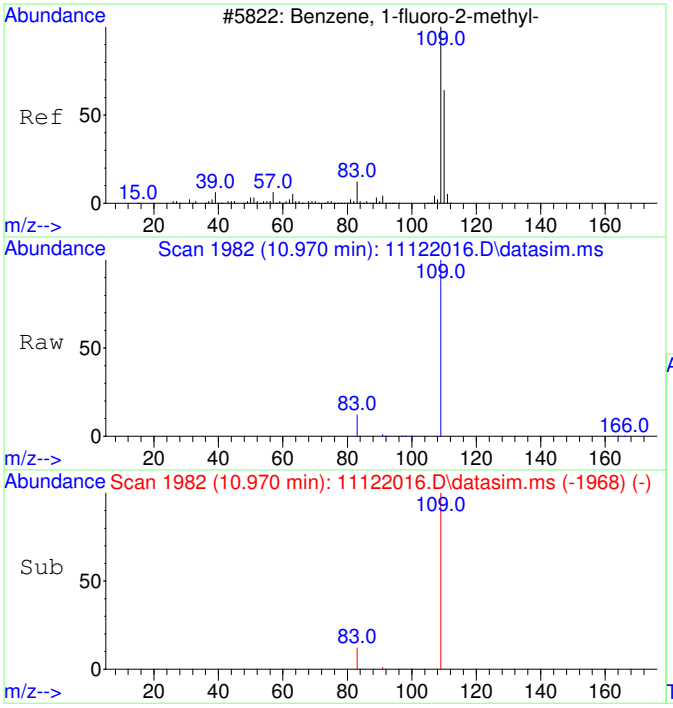


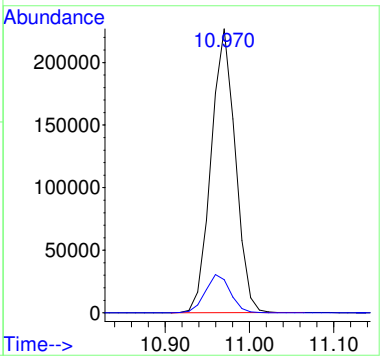
Table of Contents

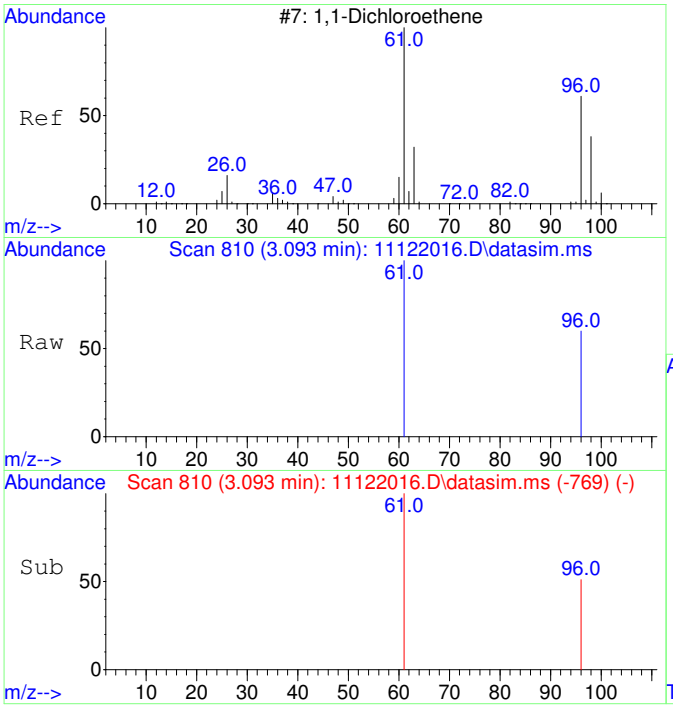


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:109 Resp: 454338

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

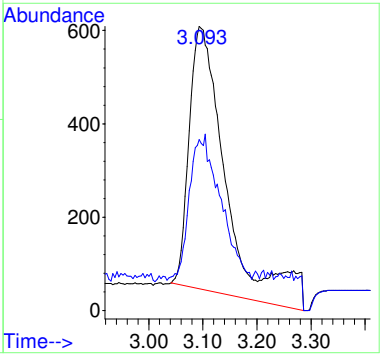




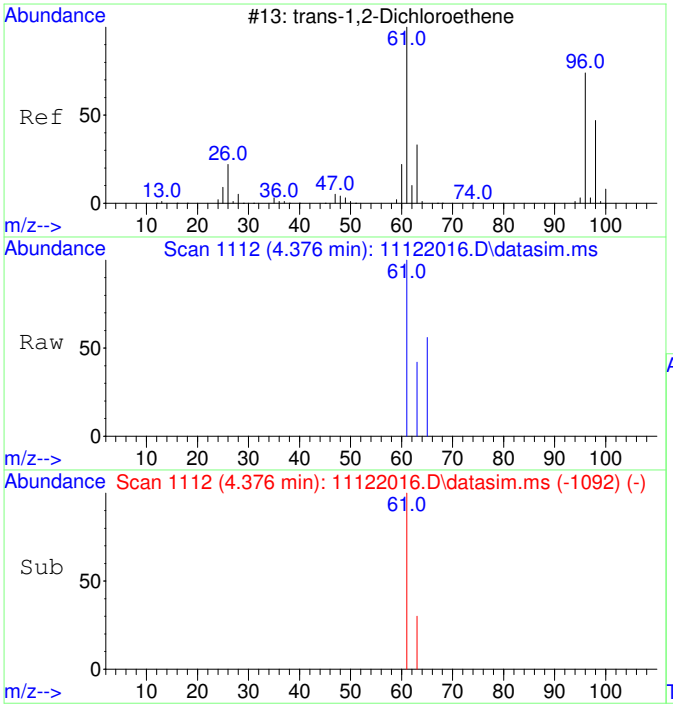
#2
1,1-Dichloroethene
Concen: 147.17 ug/L
RT: 3.093 min Scan# 810
Delta R.T. 0.004 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 61 Resp: 2670

Ion	Ratio	Lower	Upper
61	100		
96	18.7	37.2	97.2#



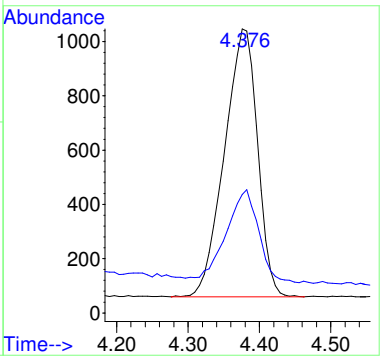
Before MI:
IMPROPER
BASELINE

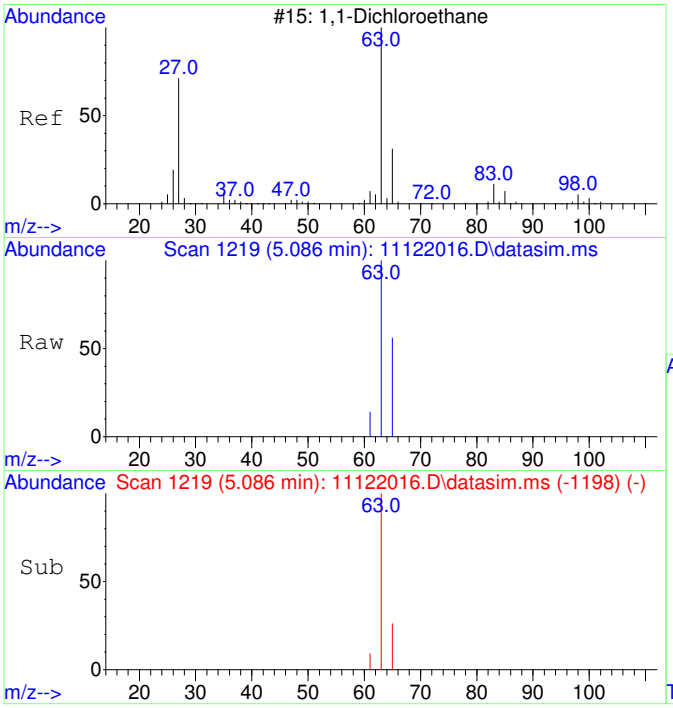


#3
trans-1,2-Dichloroethene
Concen: 151.99 ug/L
RT: 4.376 min Scan# 1112
Delta R.T. -0.020 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 61 Resp: 3186

Ion	Ratio	Lower	Upper
61	100		
63	34.8	2.4	62.4

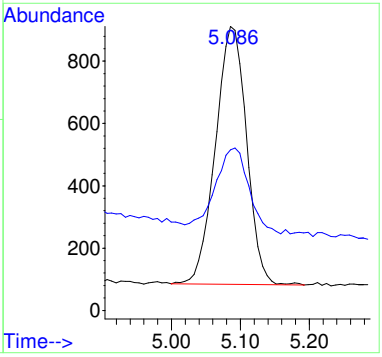


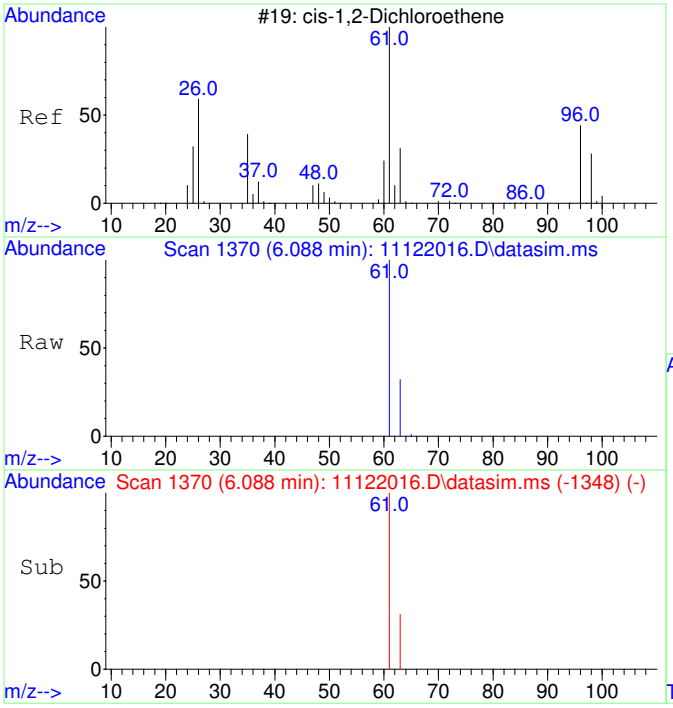


#4
1,1-Dichloroethane
Concen: 99.41 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. -0.013 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 63 Resp: 2594

Ion	Ratio	Lower	Upper
63	100		
65	37.1	1.8	61.8

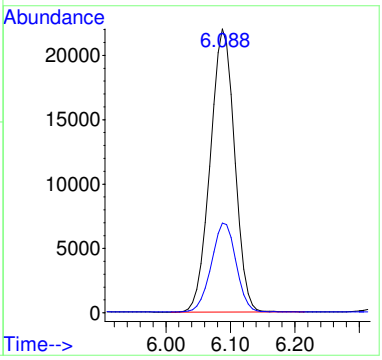


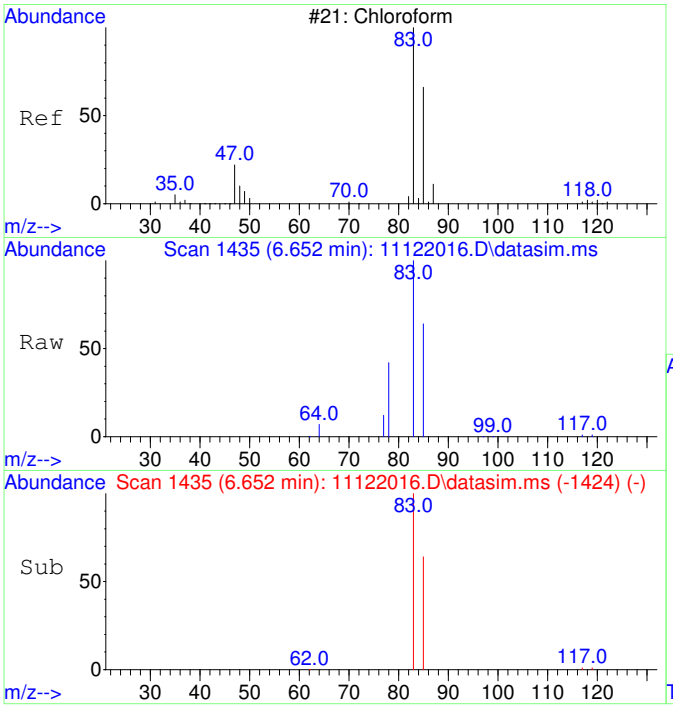


#5
cis-1,2-Dichloroethene
Concen: 2095.22 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 61 Resp: 57708

Ion	Ratio	Lower	Upper
61	100		
63	31.7	2.5	62.5

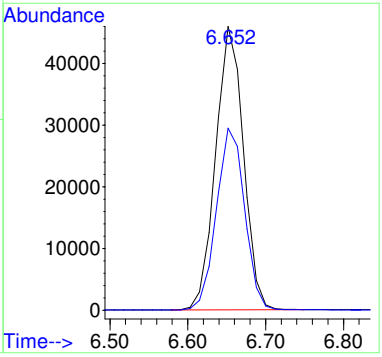


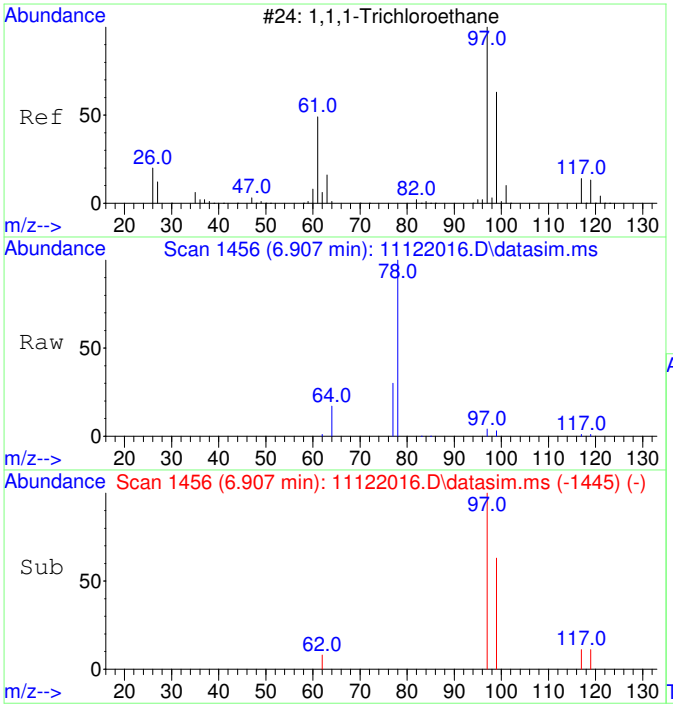


#6
Chloroform
Concen: 4037.64 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 83 Resp: 113825

Ion	Ratio	Lower	Upper
83	100		
85	65.0	35.1	95.1

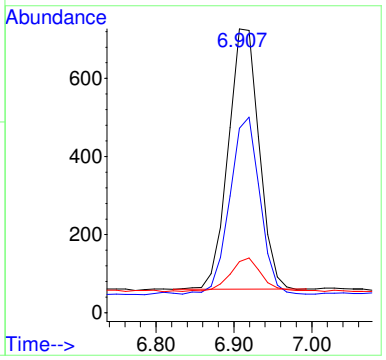


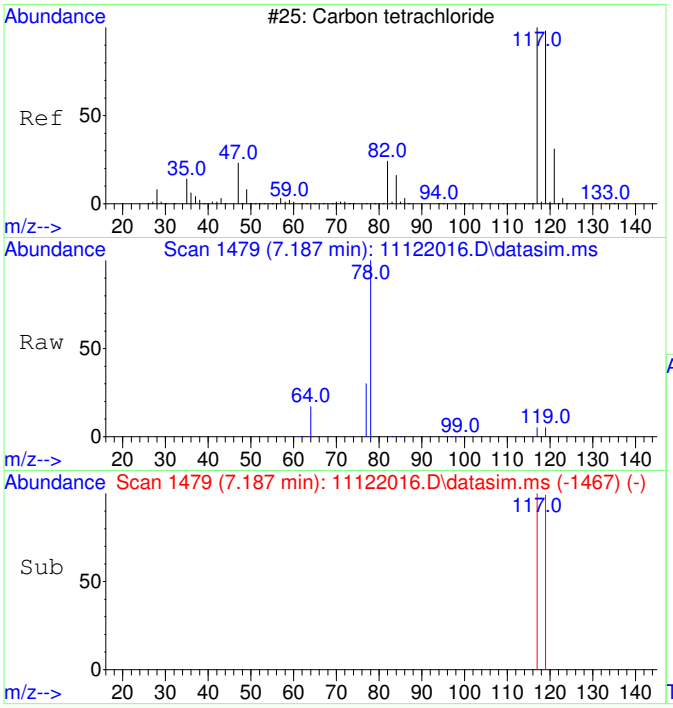


#7
1,1,1-Trichloroethane
Concen: 59.97 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 97 Resp: 1836

Ion	Ratio	Lower	Upper
97	100		
99	66.2	34.6	94.6
117	13.8	0.0	43.2

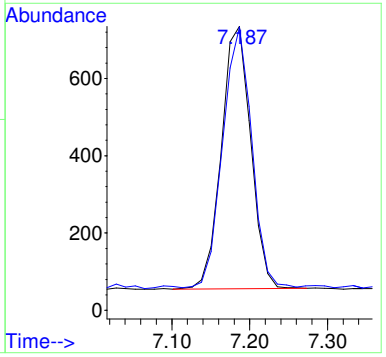


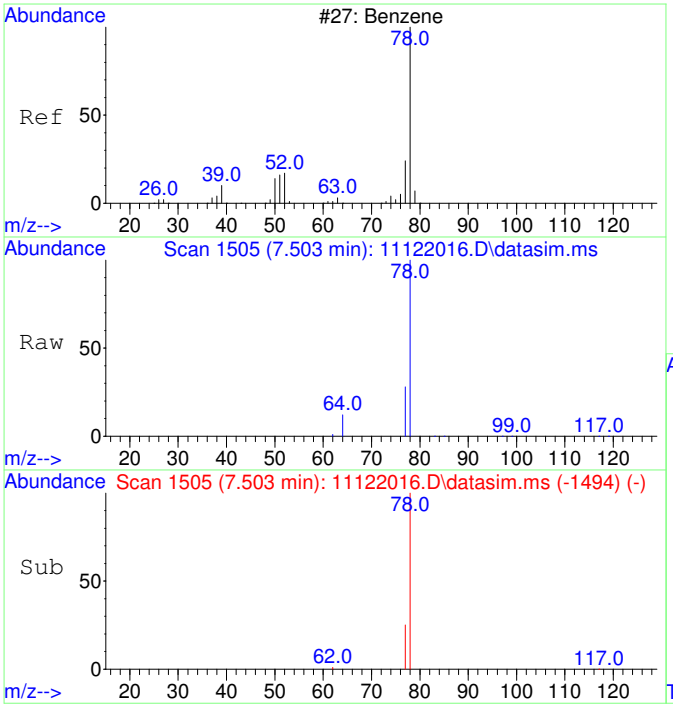


#8
Carbon tetrachloride
Concen: 61.81 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:117 Resp: 1781

Ion	Ratio	Lower	Upper
117	100		
119	97.2	66.4	126.4

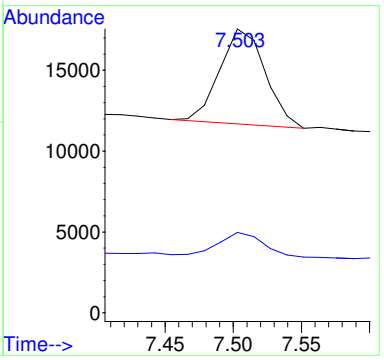


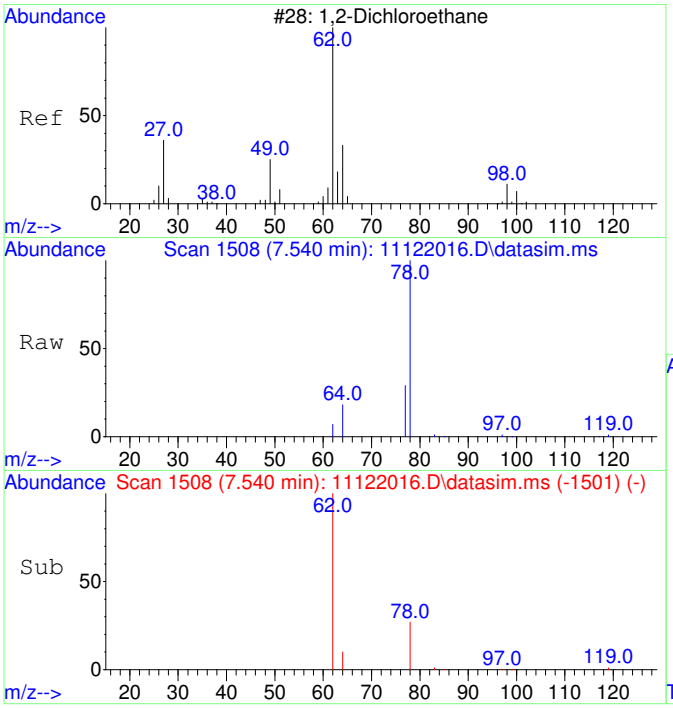


#9
Benzene
Concen: 175.15 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 78 Resp: 13521

Ion	Ratio	Lower	Upper
78	100		
77	30.5	0.0	53.2

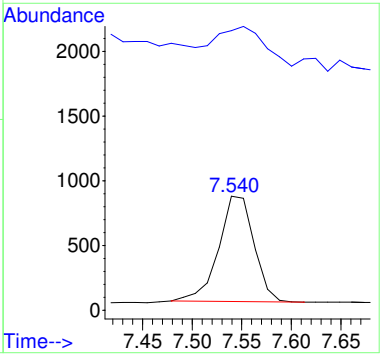


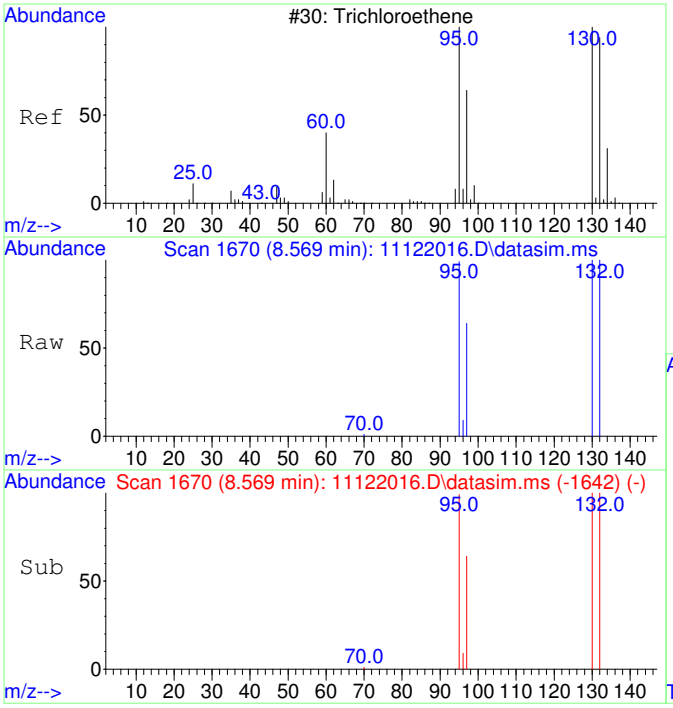


#10
1,2-Dichloroethane
Concen: 73.09 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 62 Resp: 2014

Ion	Ratio	Lower	Upper
62	100		
64	52.4	2.3	62.3

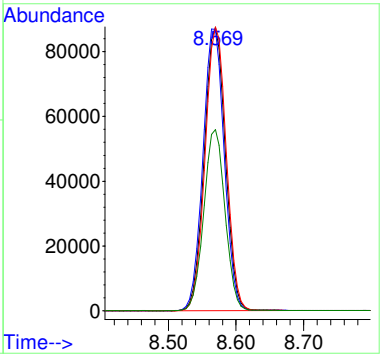


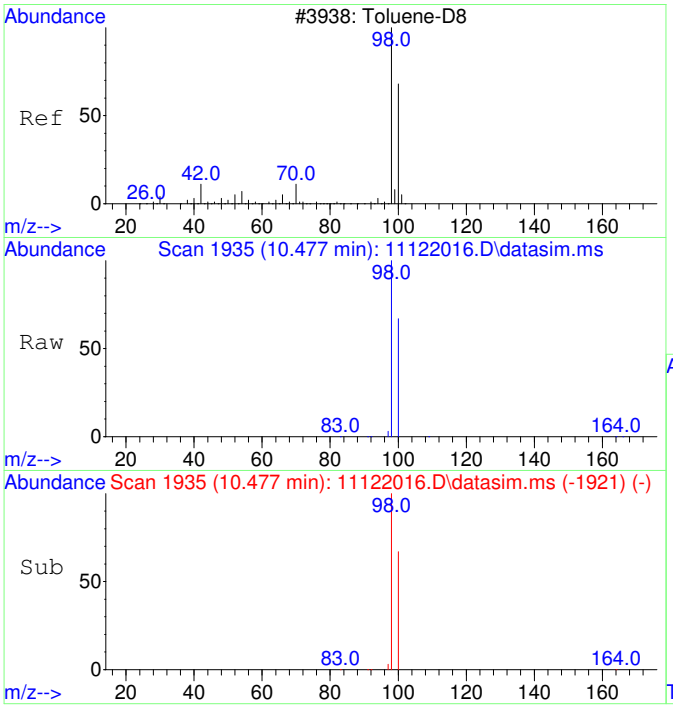


#11
Trichloroethene
Concen: 8154.67 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:130 Resp: 189533

Ion	Ratio	Lower	Upper
130	100		
95	100.2	60.7	120.7
132	100.1	76.0	116.0
97	64.1	38.6	78.6

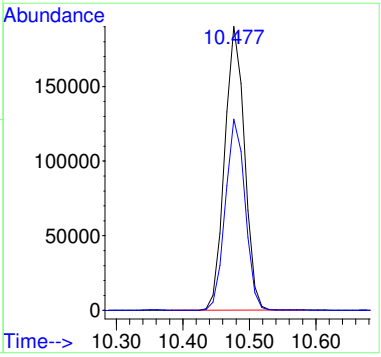


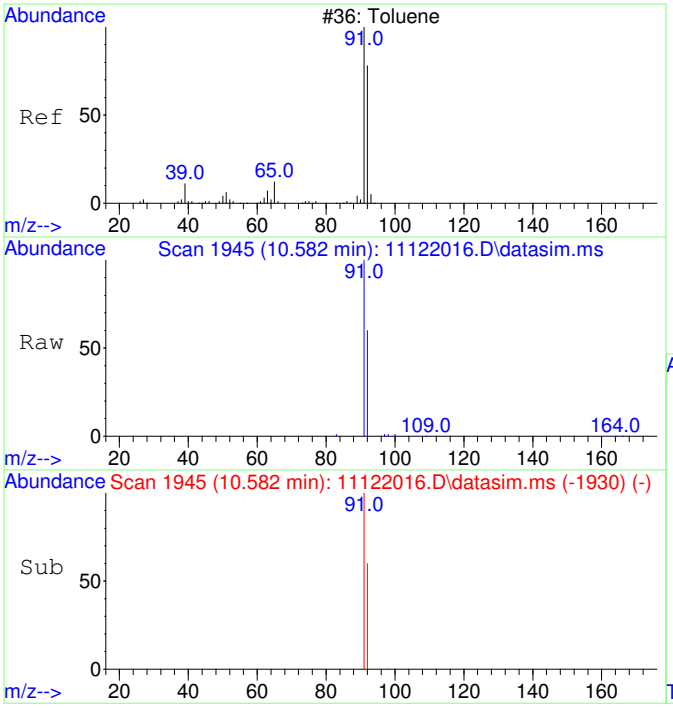


#12
Toluene-d8
Concen: 4415.96 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 98 Resp: 392762

Ion	Ratio	Lower	Upper
98	100		
100	66.9	37.1	97.1

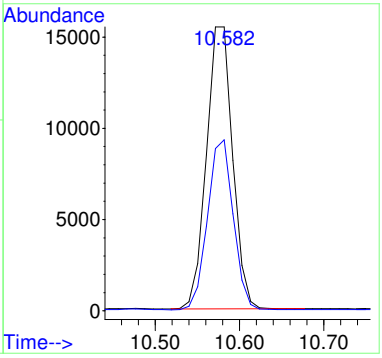


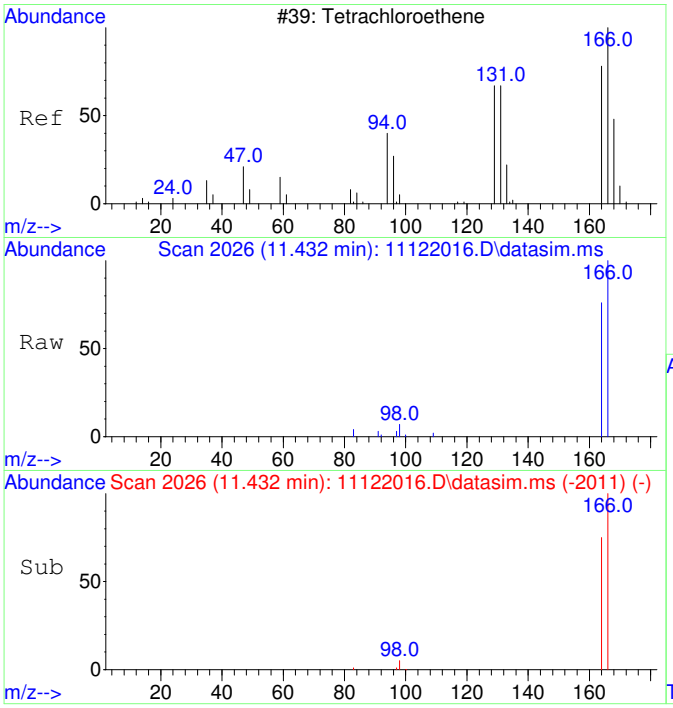


#13
Toluene
Concen: 295.85 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 33547

Ion	Ratio	Lower	Upper
91	100		
92	59.0	29.9	89.9

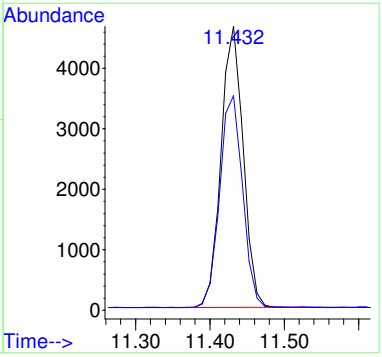


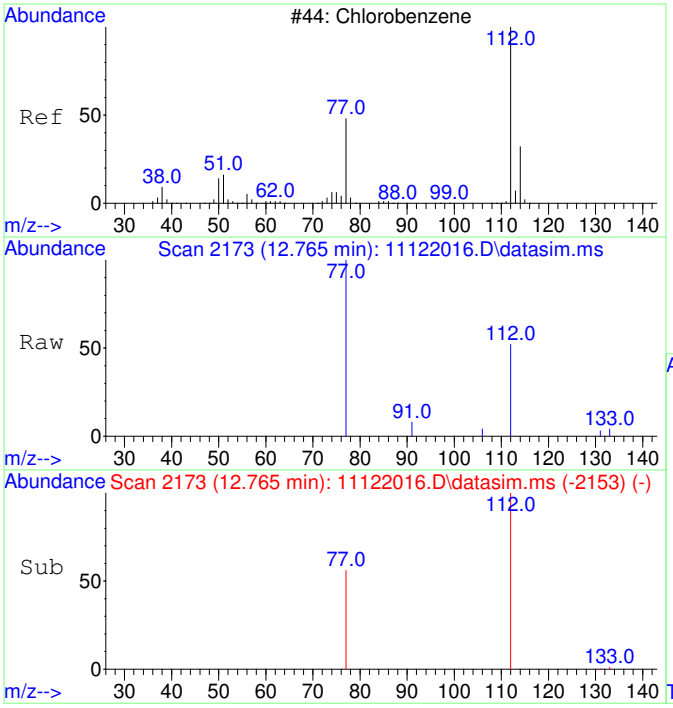


#15
Tetrachloroethene
Concen: 291.69 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:166 Resp: 9572

Ion	Ratio	Lower	Upper
166	100		
164	77.8	47.8	107.8

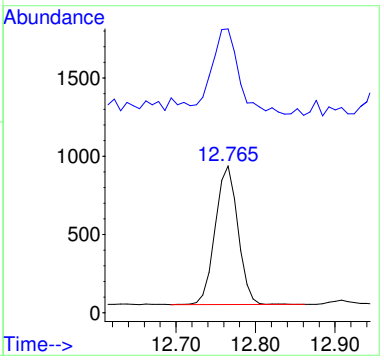


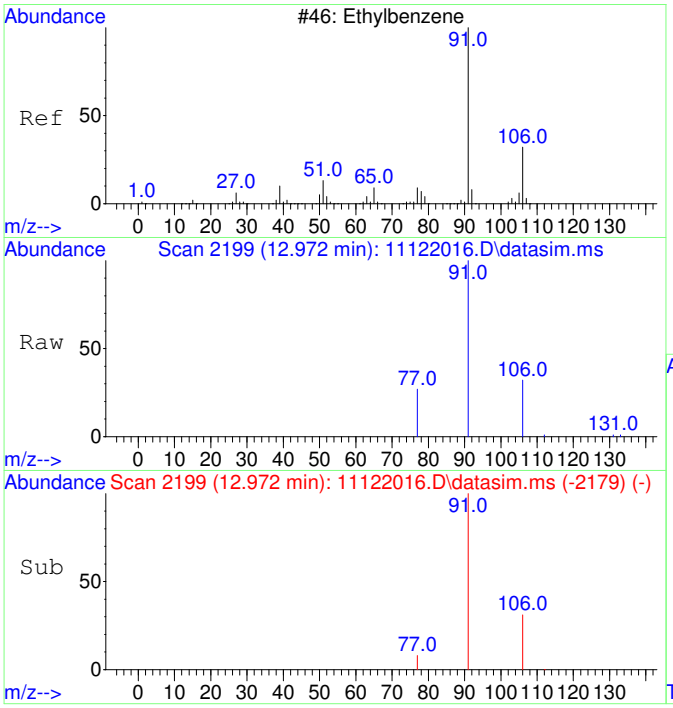


#16
Chlorobenzene
Concen: 21.64 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:112 Resp: 1757

Ion	Ratio	Lower	Upper
112	100		
77	73.8	23.6	83.6

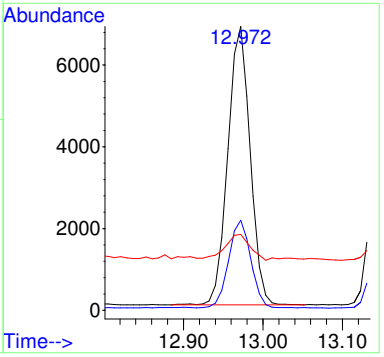


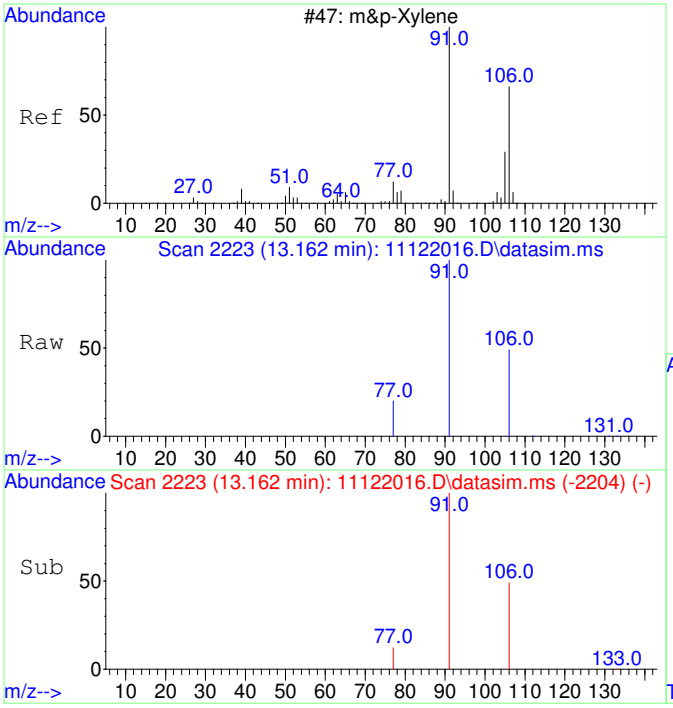


#18
Ethylbenzene
Concen: 96.93 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 13379

Ion	Ratio	Lower	Upper
91	100		
106	31.2	3.0	63.0
77	9.7	0.0	38.2

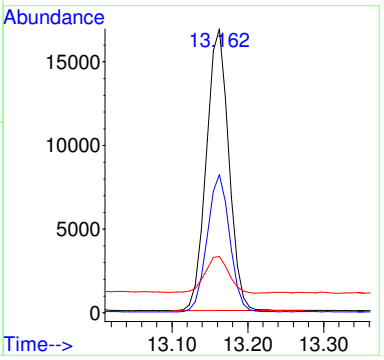


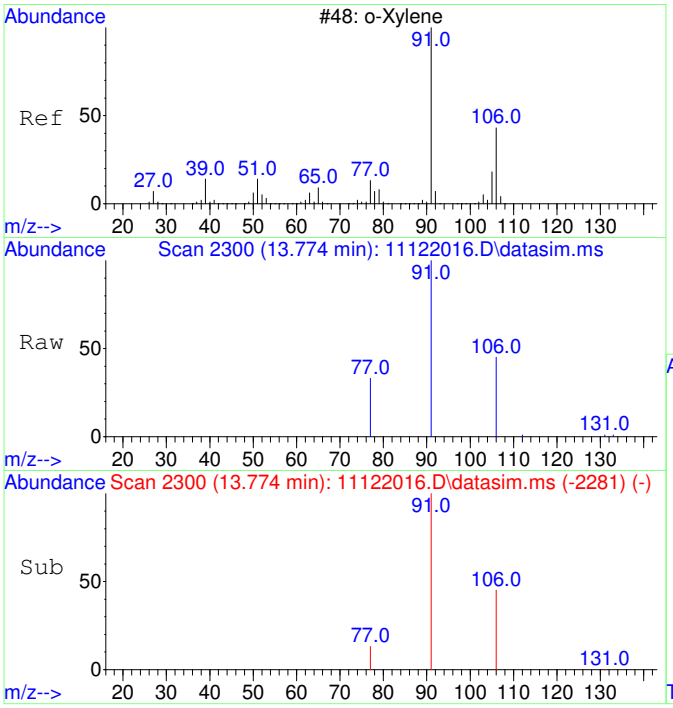


#19
m&p-Xylene
Concen: 320.93 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 34620

Ion	Ratio	Lower	Upper
91	100		
106	48.6	22.2	82.2
77	13.9	0.0	42.4

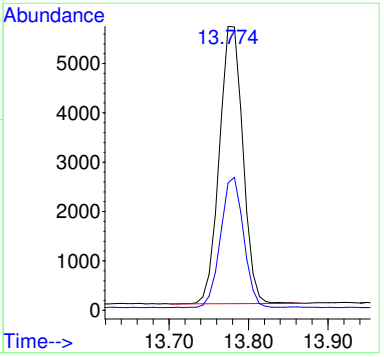


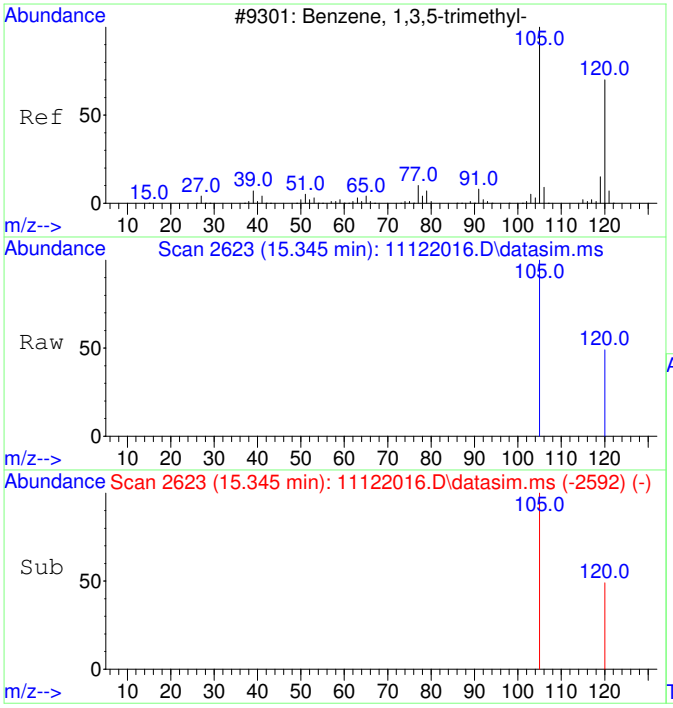


#20
o-Xylene
Concen: 100.65 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 11600

Ion	Ratio	Lower	Upper
91	100		
106	45.8	19.2	79.2

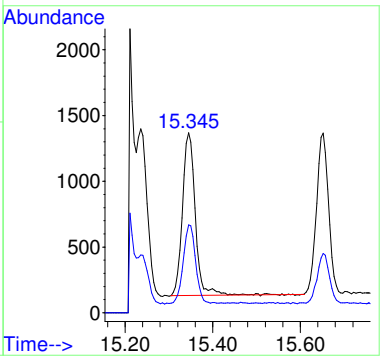


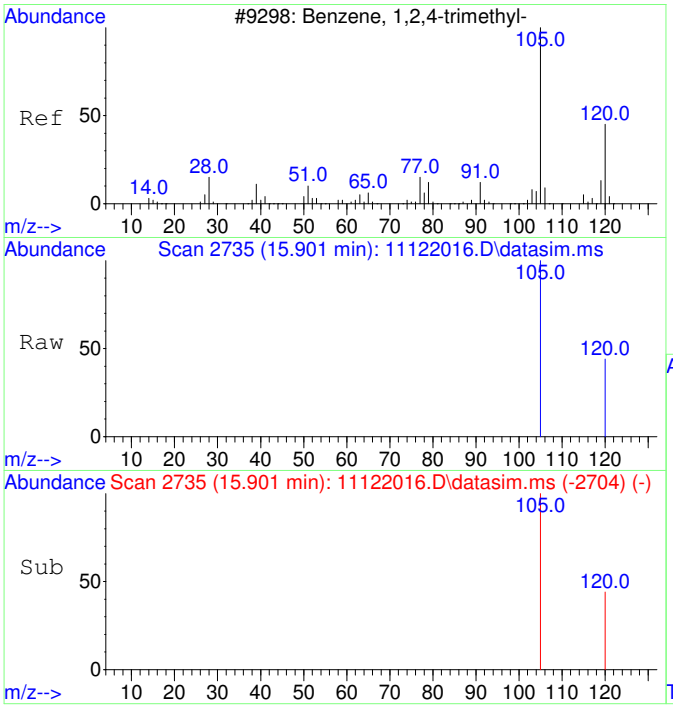


#22
1,3,5-Trimethylbenzene
Concen: 20.48 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:105 Resp: 2512

Ion	Ratio	Lower	Upper
105	100		
120	46.2	21.1	81.1

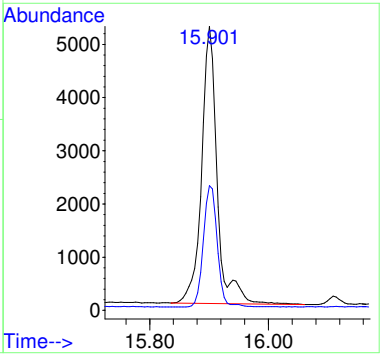


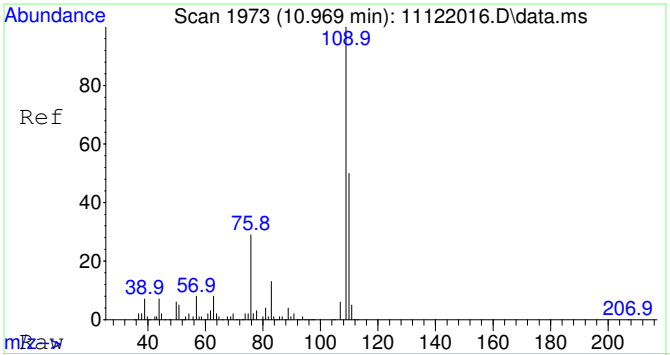


#23
1,2,4-Trimethylbenzene
Concen: 74.38 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:105 Resp: 9477

Ion	Ratio	Lower	Upper
105	100		
120	39.2	17.2	77.2

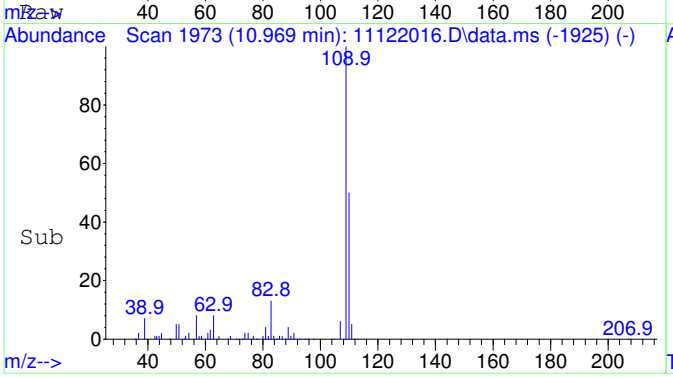


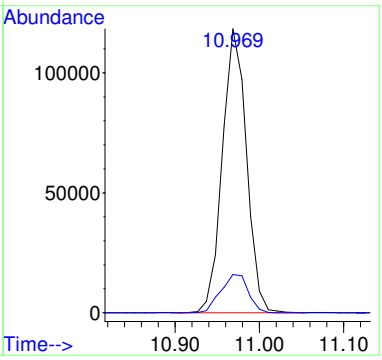


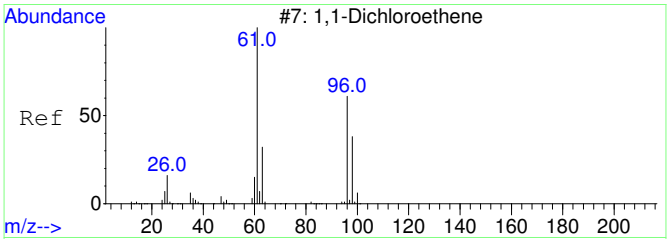
#25
2-Fluorotoluene SCAN
Concen: 5332.63 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:109 Resp: 236180

Ion	Ratio	Lower	Upper
109	100		
83	15.4	0.0	43.8



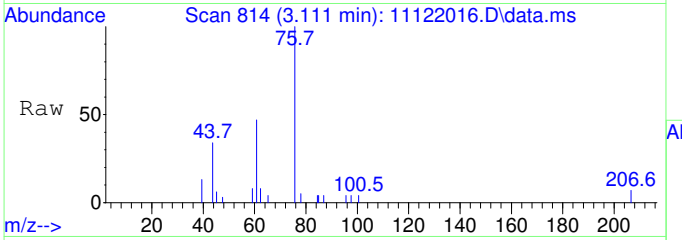


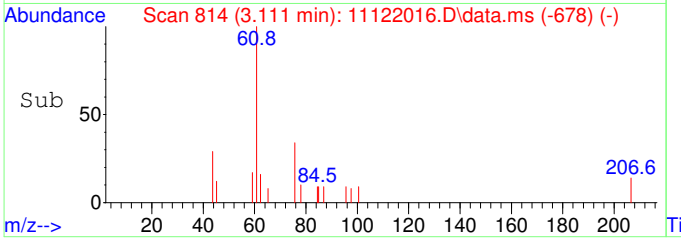


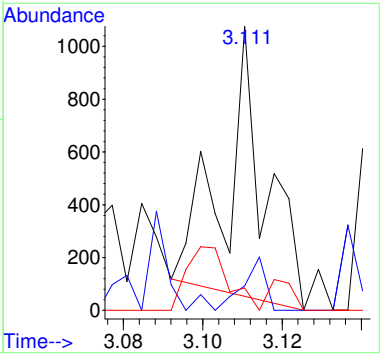
#26
1,1-Dichloroethene SCAN
Concen: 75.70 ug/L
RT: 3.111 min Scan# 814
Delta R.T. 0.004 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

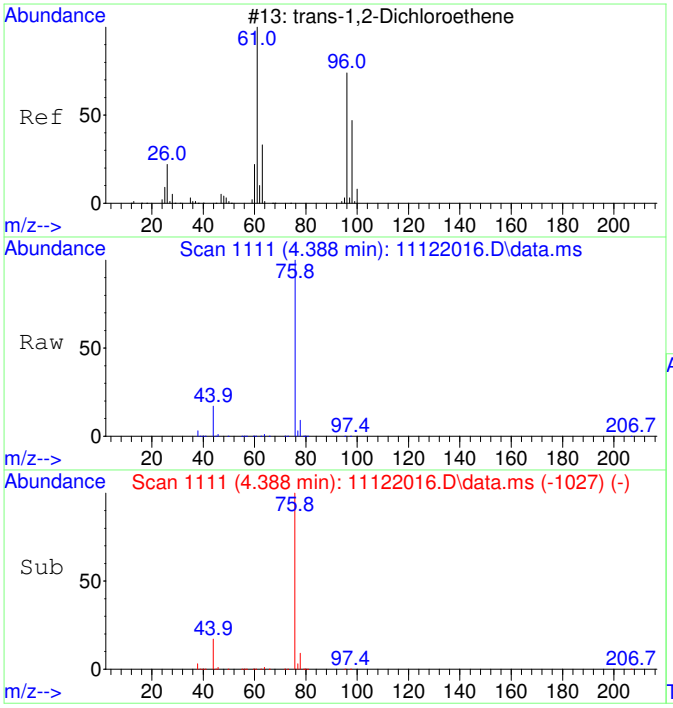
Tgt Ion: 61 Resp: 712

Ion	Ratio	Lower	Upper
61	100		
96	11.0	33.1	93.1#
98	24.7	11.2	71.2





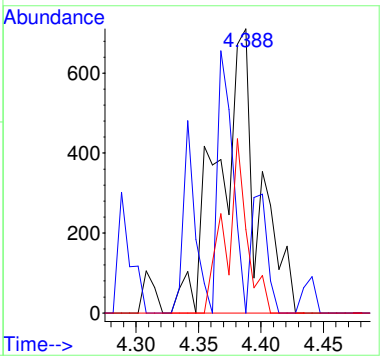


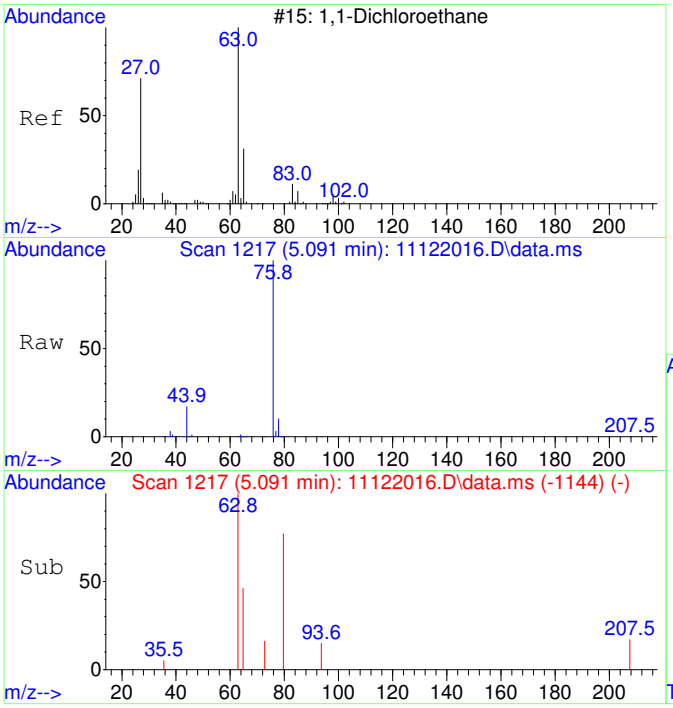


#27
trans-1,2-Dichloroethene SCAN
Concen: 135.15 ug/L
RT: 4.388 min Scan# 1111
Delta R.T. -0.013 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 61 Resp: 1573

Ion	Ratio	Lower	Upper
61	100		
96	35.0	49.0	109.0#
98	32.2	20.5	80.5

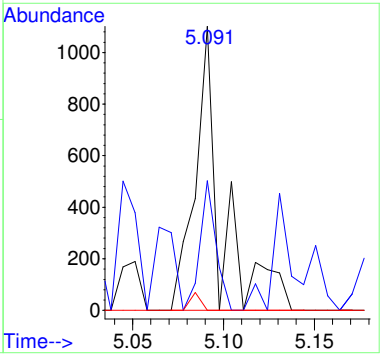


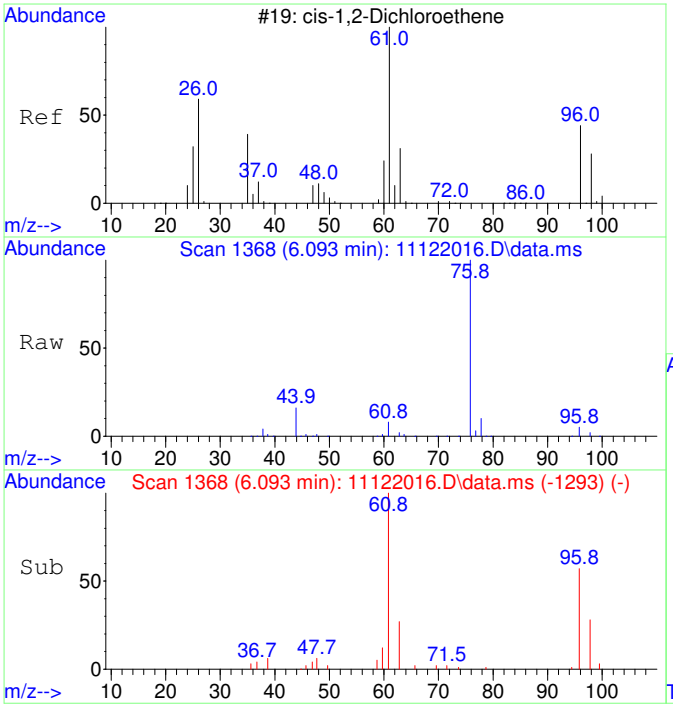


#28
1,1-Dichloroethane SCAN
Concen: 82.48 ug/L
RT: 5.091 min Scan# 1217
Delta R.T. -0.013 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 63 Resp: 1111

Ion	Ratio	Lower	Upper
63	100		
65	27.7	1.3	61.3
83	0.0	0.0	45.9

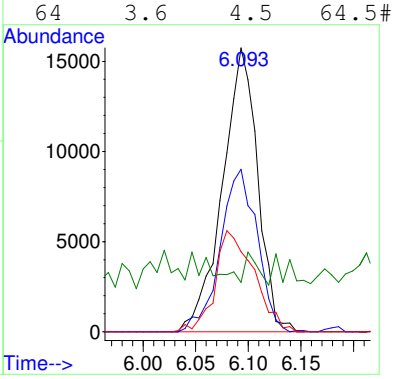


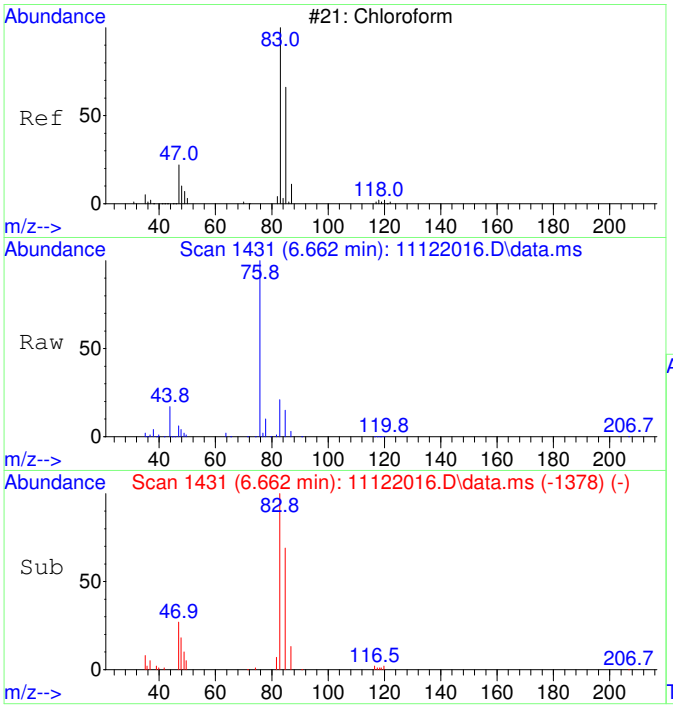


#29
cis-1,2-Dichloroethene SCAN
Concen: 2535.31 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 61 Resp: 36589

Ion	Ratio	Lower	Upper
61	100		
96	59.8	39.9	99.9
98	39.3	13.5	73.5
64	3.6	4.5	64.5#

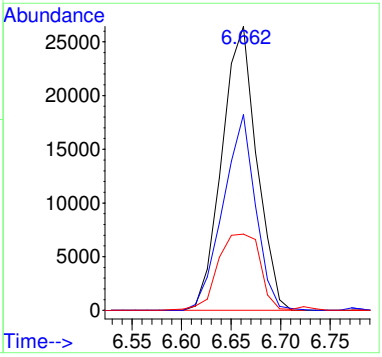


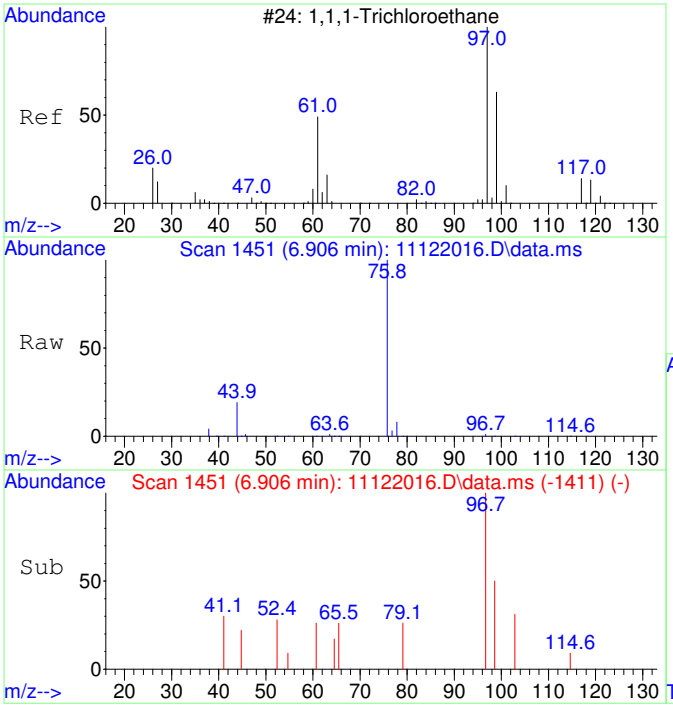


#30
Chloroform SCAN
Concen: 4130.39 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 83 Resp: 64654

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.6	94.6
47	32.1	0.0	53.4

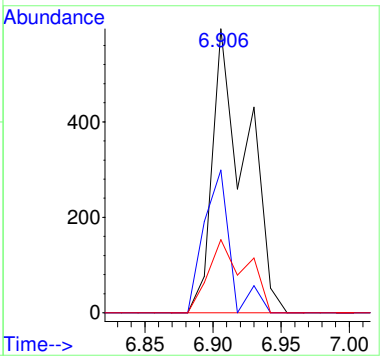


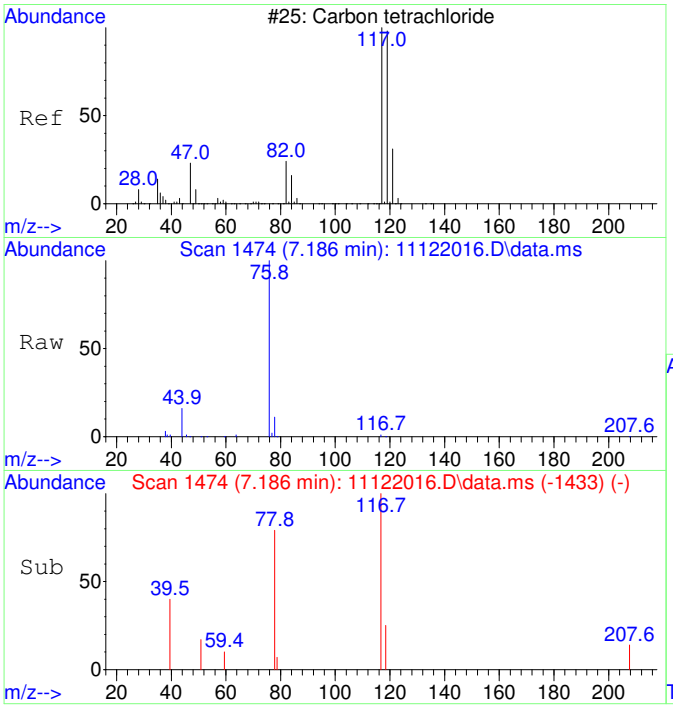


#31
1,1,1-Trichloroethane SCAN
Concen: 72.28 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 97 Resp: 1031

Ion	Ratio	Lower	Upper
97	100		
99	38.7	43.6	103.6#
61	29.0	18.0	78.0

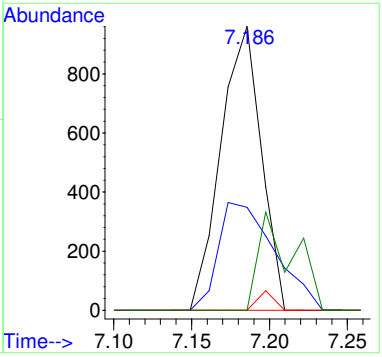


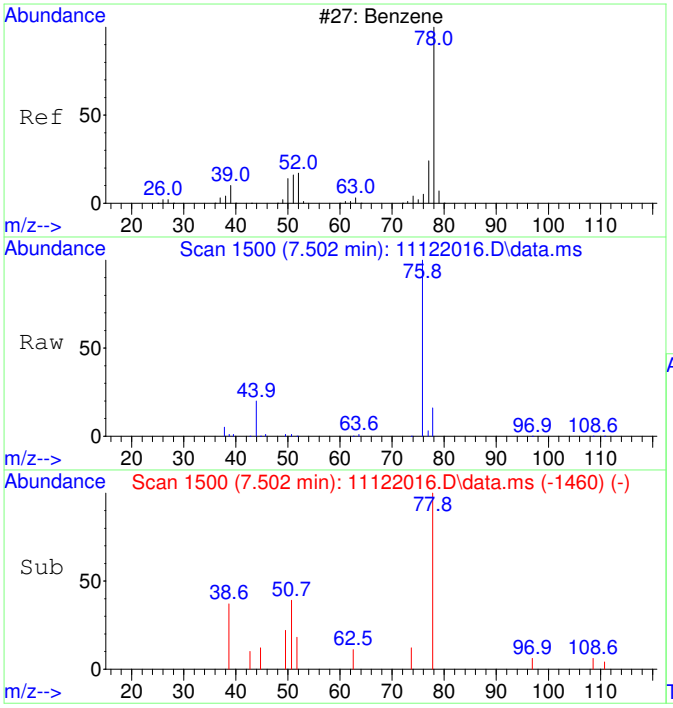


#32
Carbon tetrachloride SCAN
Concen: 117.14 ug/L
RT: 7.186 min Scan# 1474
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:117 Resp: 1743

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	29.5	0.0	59.2

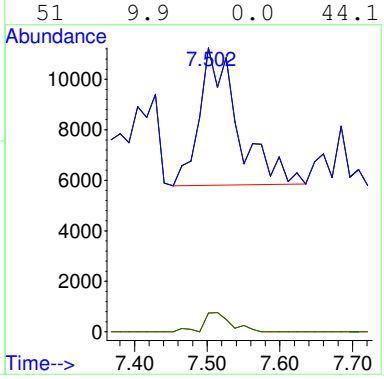


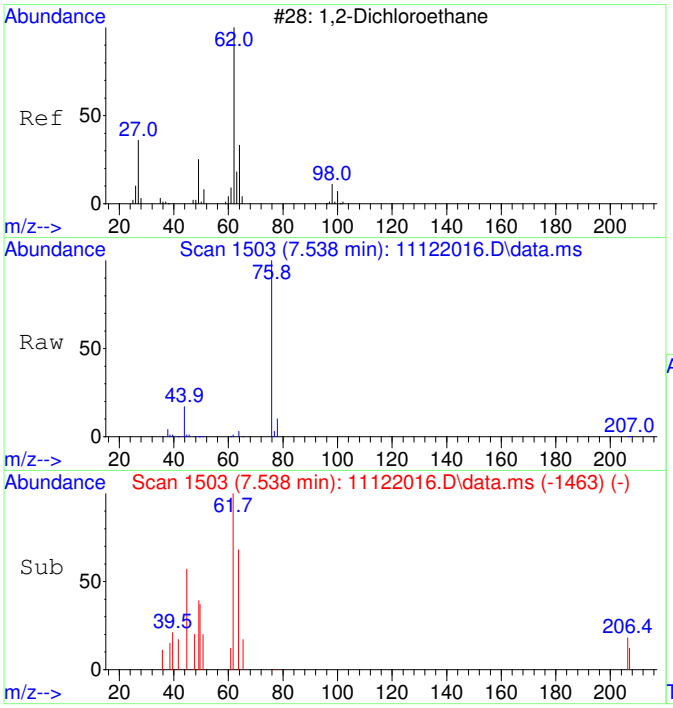


#33
Benzene SCAN
Concen: 509.10 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 78 Resp: 19995

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	9.9	0.0	47.9
51	9.9	0.0	44.1

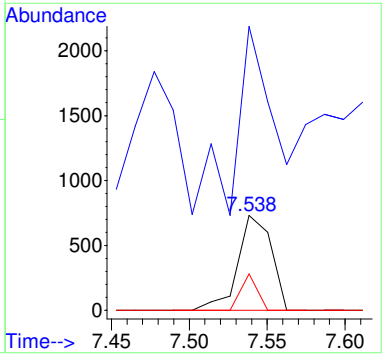


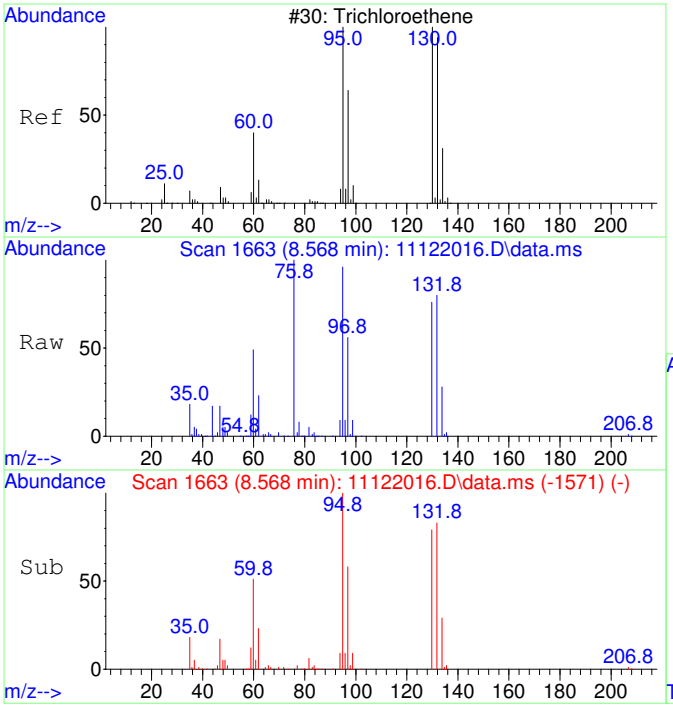


#34
1,2-Dichloroethane SCAN
Concen: 75.92 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 62 Resp: 1101

Ion	Ratio	Lower	Upper
62	100		
64	455.4	5.2	65.2#
49	18.7	3.9	63.9

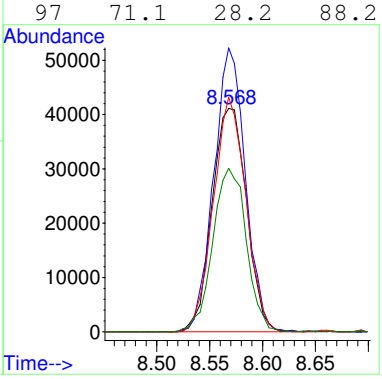


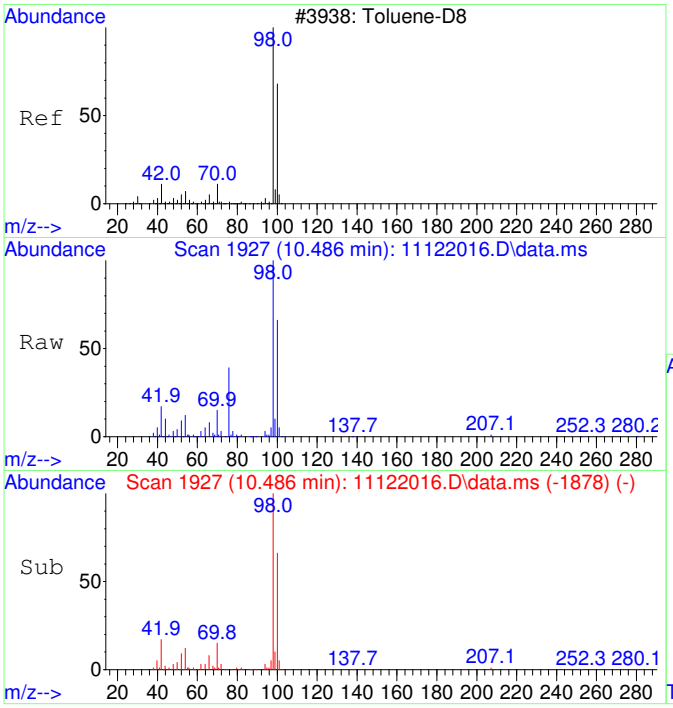


#35
Trichloroethene SCAN
Concen: 8634.26 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:130 Resp: 93191

Ion	Ratio	Lower	Upper
130	100		
95	116.7	60.5	120.5
132	98.7	59.6	119.6
97	71.1	28.2	88.2

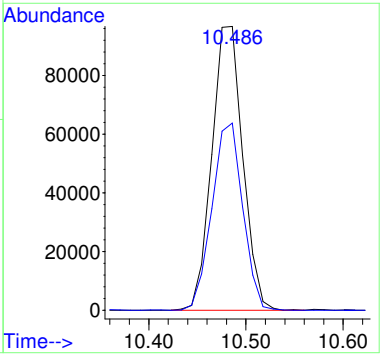


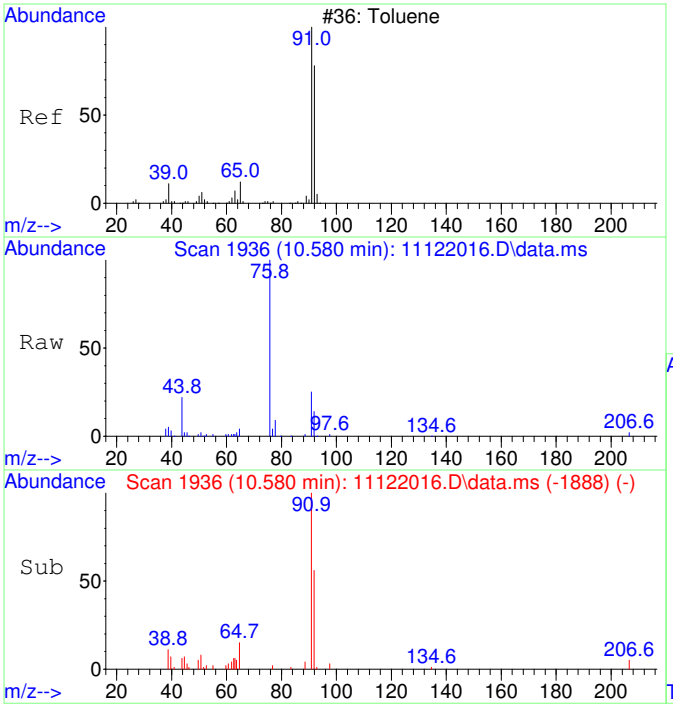


#36
Toluene-d8 SCAN
Concen: 4936.25 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 98 Resp: 213808

Ion	Ratio	Lower	Upper
98	100		
100	65.6	40.0	100.0

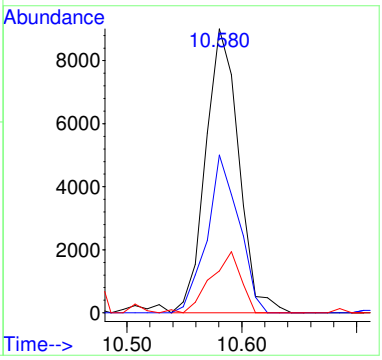


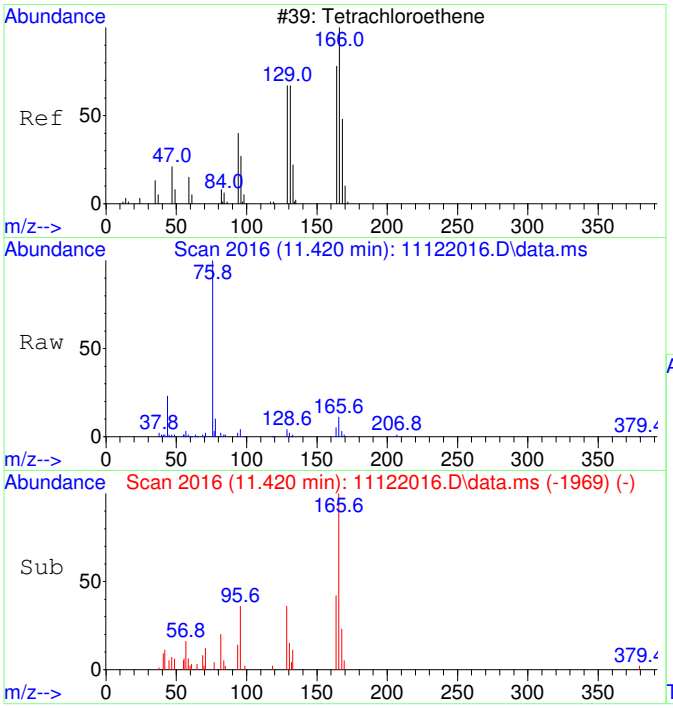


#37
Toluene SCAN
Concen: 326.29 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 18099

Ion	Ratio	Lower	Upper
91	100		
92	53.5	28.3	88.3
65	19.6	0.0	41.0

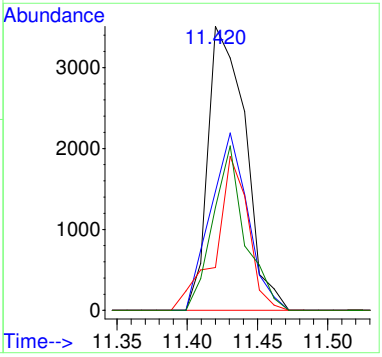


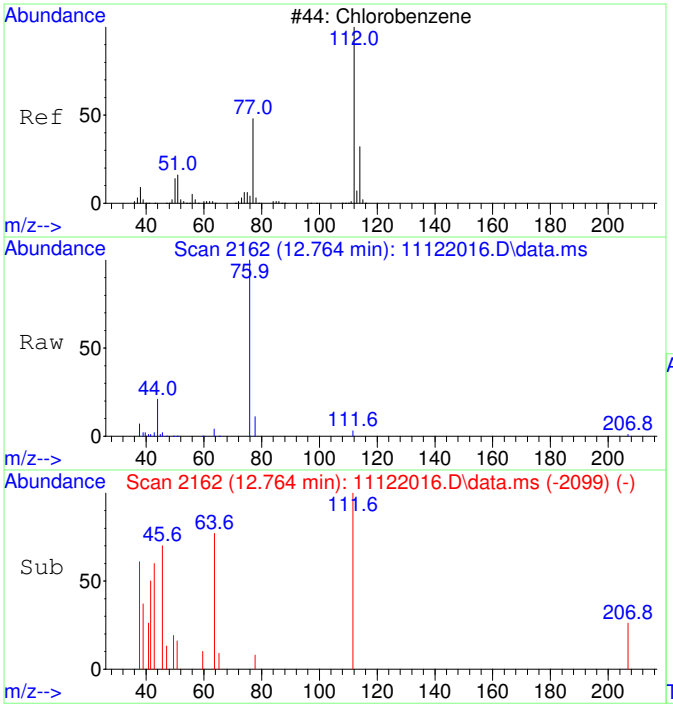


#39
Tetrachloroethene SCAN
Concen: 490.23 ug/L
RT: 11.420 min Scan# 2016
Delta R.T. -0.010 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:166 Resp: 6533

Ion	Ratio	Lower	Upper
166	100		
164	62.1	50.9	110.9
131	47.3	38.7	98.7
129	50.1	41.8	101.8

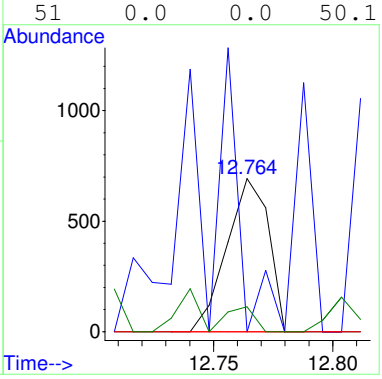


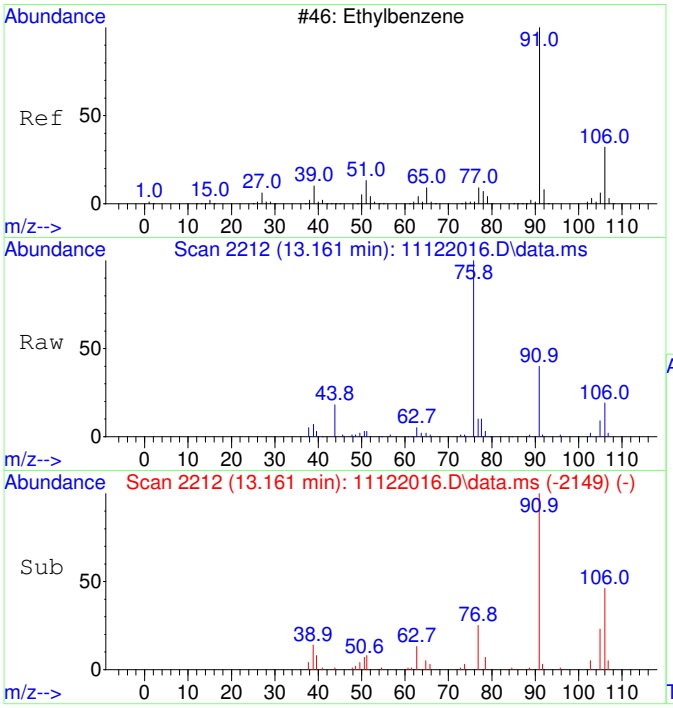


#40
Chlorobenzene SCAN
Concen: 22.37 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:112 Resp: 848

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

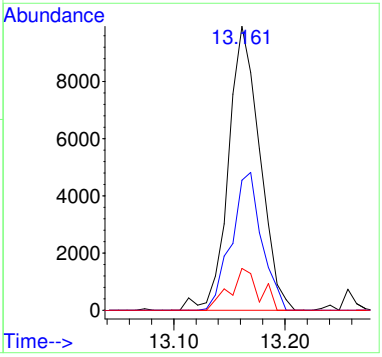


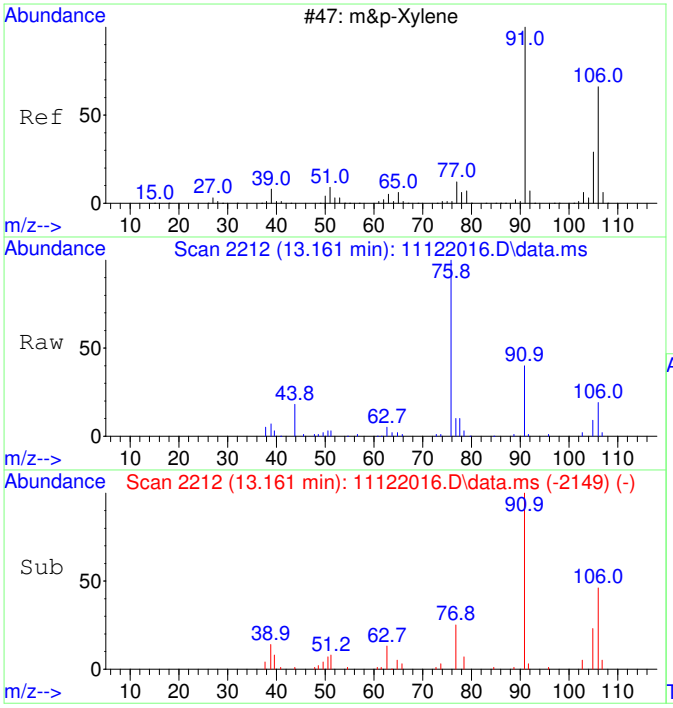


#42
Ethylbenzene SCAN
Concen: 192.64 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 19468

Ion	Ratio	Lower	Upper
91	100		
106	47.0	23.1	83.1
51	13.8	0.0	40.1

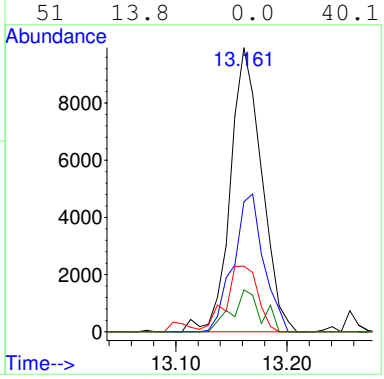


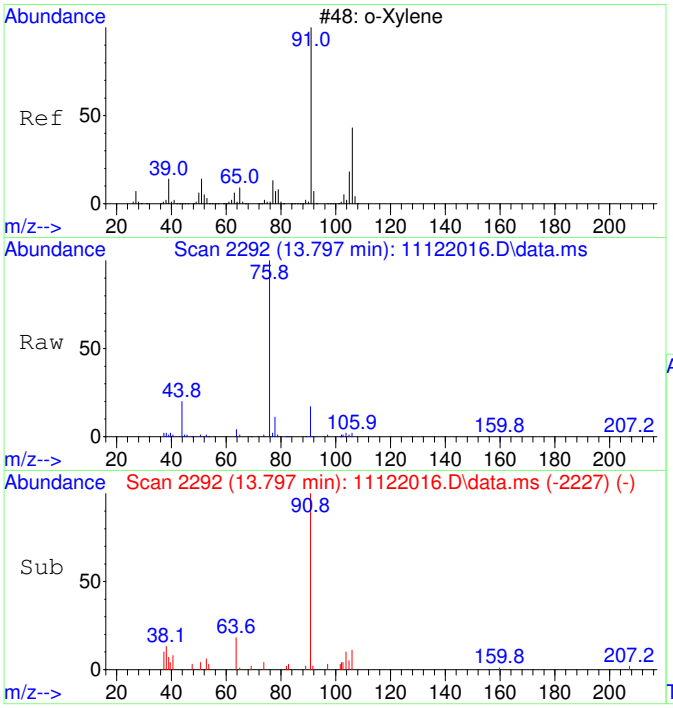


#43
m&p-Xylene SCAN
Concen: 192.64 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 19468

Ion	Ratio	Lower	Upper
91	100		
106	47.0	23.1	83.1
105	22.5	0.0	54.7
51	13.8	0.0	40.1

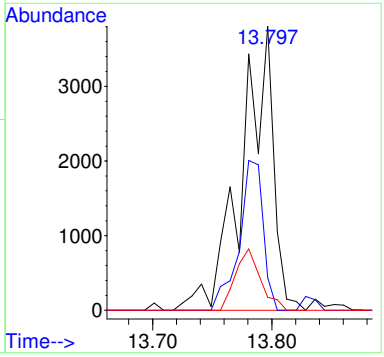


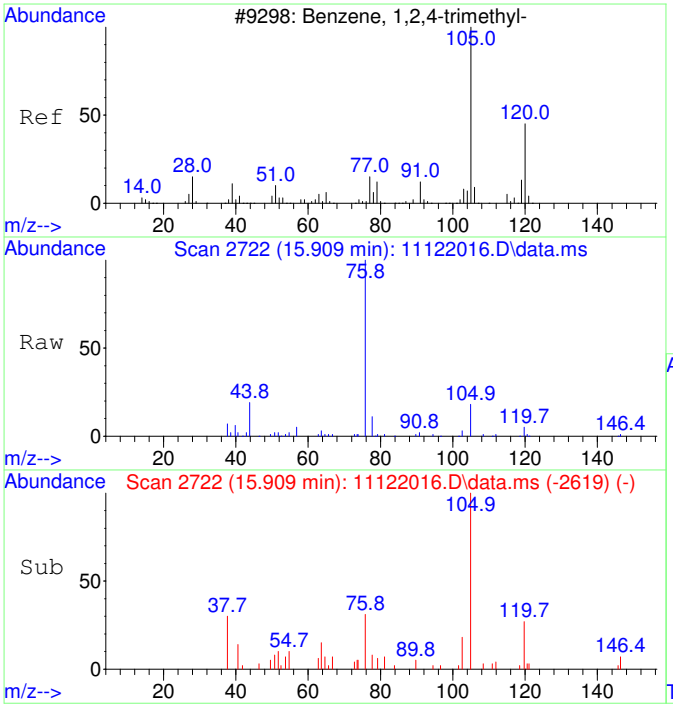


#44
o-Xylene SCAN
Concen: 129.39 ug/L
RT: 13.797 min Scan# 2292
Delta R.T. 0.016 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 6999

Ion	Ratio	Lower	Upper
91	100		
106	40.2	18.0	78.0
105	17.3	0.0	56.6

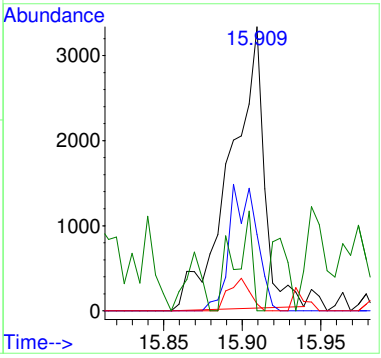




#47
1,2,4-Trimethylbenzene SCAN
Concen: 84.72 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.010 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:105 Resp: 4942

Ion	Ratio	Lower	Upper
105	100		
120	35.9	16.9	76.9
119	7.2	0.0	41.9
77	18.3	0.0	42.3



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122016.D
Acq On : 12 Nov 2020 14:23
InstName : AG5975C
Operator : TD
Sample : 2011015-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

M.I. Performed By:
TD at 11:38 am, Nov 13, 2020

M.I. Approved By:
ZR at 2:24 pm, Nov 23, 2020

Quant Time: Nov 13 06:13:00 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

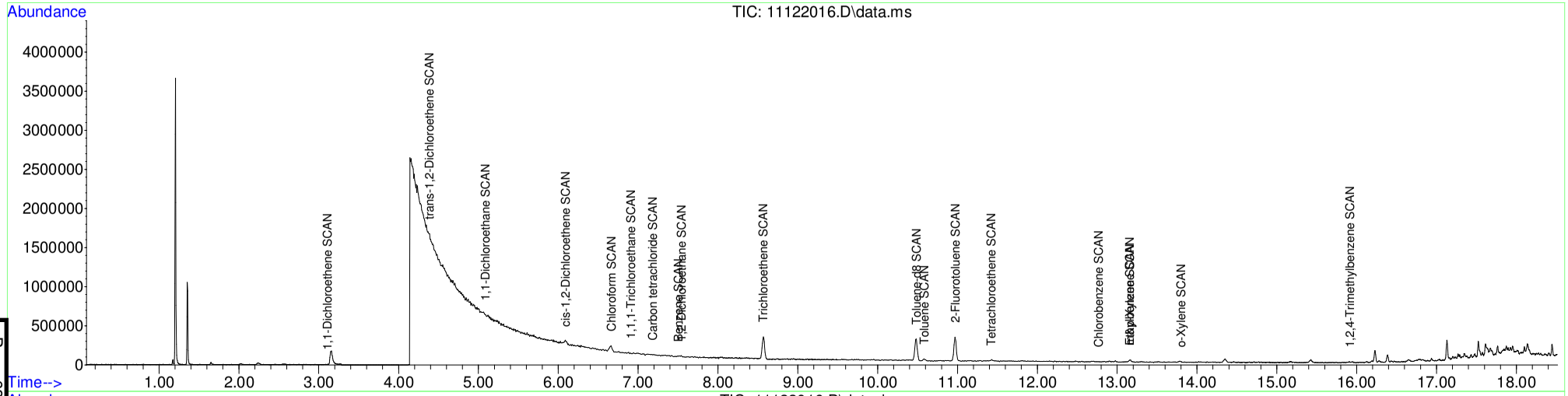
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	454338	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	392762	4415.96	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.32%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.093	61	2171m	119.66	ug/L	
3] trans-1,2-Dichloroethene	4.376	61	3186	151.99	ug/L	96
4] 1,1-Dichloroethane	5.086	63	2594	99.41	ug/L	90
5] cis-1,2-Dichloroethene	6.088	61	57708	2095.22	ug/L	98
6] Chloroform	6.652	83	113825	4037.64	ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	1836	59.97	ug/L	98
8] Carbon tetrachloride	7.187	117	1781	61.81	ug/L	99
9] Benzene	7.503	78	13521	175.15	ug/L	85
10] 1,2-Dichloroethane	7.540	62	2014	73.09	ug/L	64
11] Trichloroethene	8.569	130	189533	8154.67	ug/L	93
13] Toluene	10.582	91	33547	295.85	ug/L	99
15] Tetrachloroethene	11.432	166	9572	291.69	ug/L	100
16] Chlorobenzene	12.765	112	1757	21.64	ug/L	72
18] Ethylbenzene	12.972	91	13379	96.93	ug/L	97
19] m&p-Xylene	13.162	91	34620	320.93	ug/L	95
20] o-Xylene	13.774	91	11600	100.65	ug/L	95
22] 1,3,5-Trimethylbenzene	15.345	105	2512	20.48	ug/L	93
23] 1,2,4-Trimethylbenzene	15.901	105	9477	74.38	ug/L	88
25) 2-Fluorotoluene SCAN	10.969	109	236180	5332.63	ug/L	96
26) 1,1-Dichloroethene SCAN	3.111	61	712	75.70	ug/L #	49
27) trans-1,2-Dichloroethe...	4.388	61	1573	135.15	ug/L #	59
28) 1,1-Dichloroethane SCAN	5.091	63	1111	82.48	ug/L #	83
29) cis-1,2-Dichloroethene...	6.093	61	36589	2535.31	ug/L #	80
30) Chloroform SCAN	6.662	83	64654	4130.39	ug/L	95
31) 1,1,1-Trichloroethane ...	6.906	97	1031	72.28	ug/L #	64
32) Carbon tetrachloride SCAN	7.186	117	1743	117.14	ug/L #	24
33) Benzene SCAN	7.502	78	19995	509.10	ug/L	96
34) 1,2-Dichloroethane SCAN	7.538	62	1101	75.92	ug/L #	1
35) Trichloroethene SCAN	8.568	130	93191	8634.26	ug/L	82
36) Toluene-d8 SCAN	10.486	98	213808	4936.25	ug/L	95
37) Toluene SCAN	10.580	91	18099	326.29	ug/L	91
39) Tetrachloroethene SCAN	11.420	166	6533	490.23	ug/L	76
40) Chlorobenzene SCAN	12.764	112	848	22.37	ug/L #	34
42) Ethylbenzene SCAN	13.161	91	19468	192.64	ug/L	91
43) m&p-Xylene SCAN	13.161	91	19468	192.64	ug/L	93
44) o-Xylene SCAN	13.797	91	6999	129.39	ug/L	86
47) 1,2,4-Trimethylbenzene...	15.909	105	4942	84.72	ug/L	84

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122016.D
Acq On : 12 Nov 2020 14:23
InstName : AG5975C
Operator : TD
Sample : 2011015-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 13 06:13:00 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



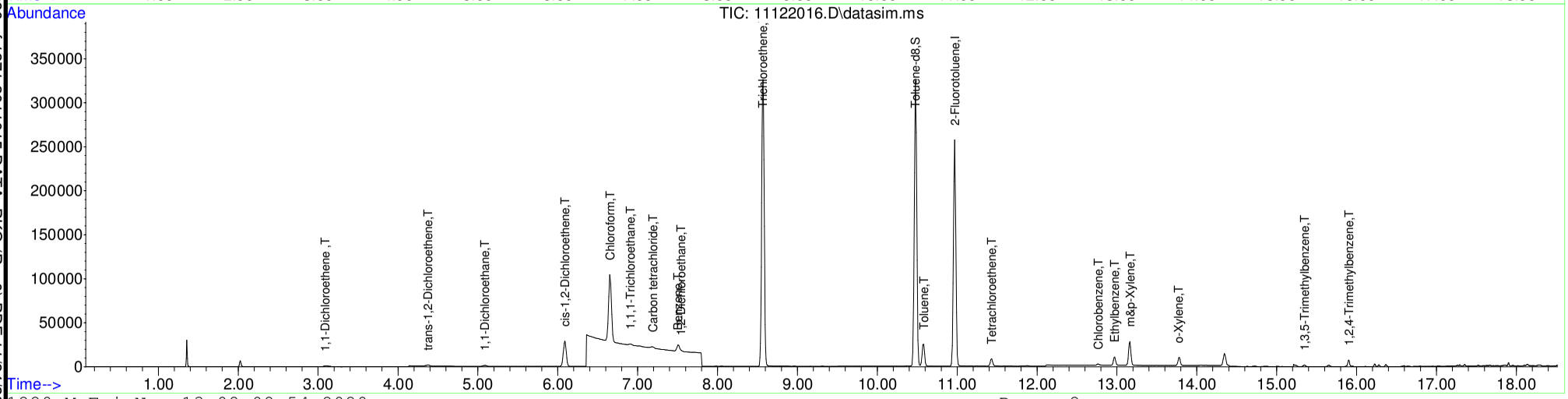
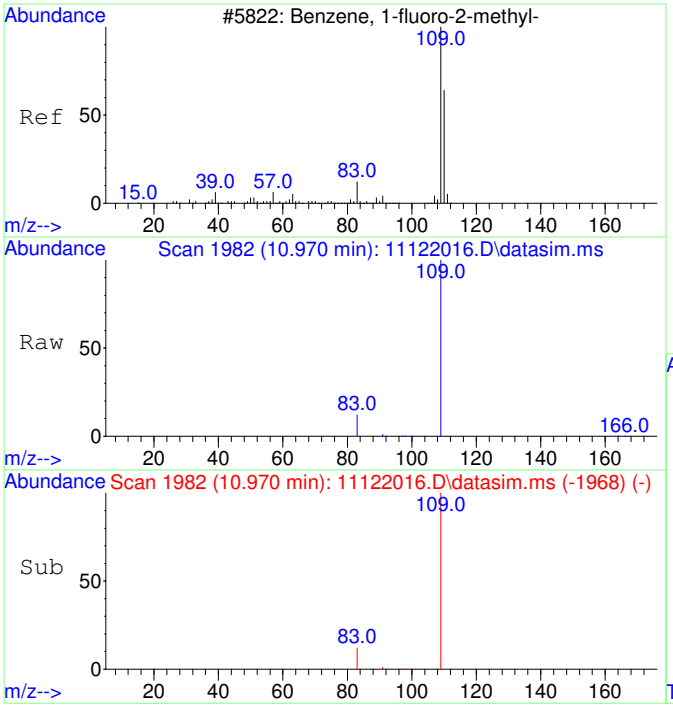


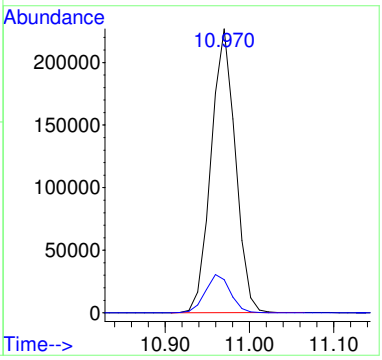
Table of Contents

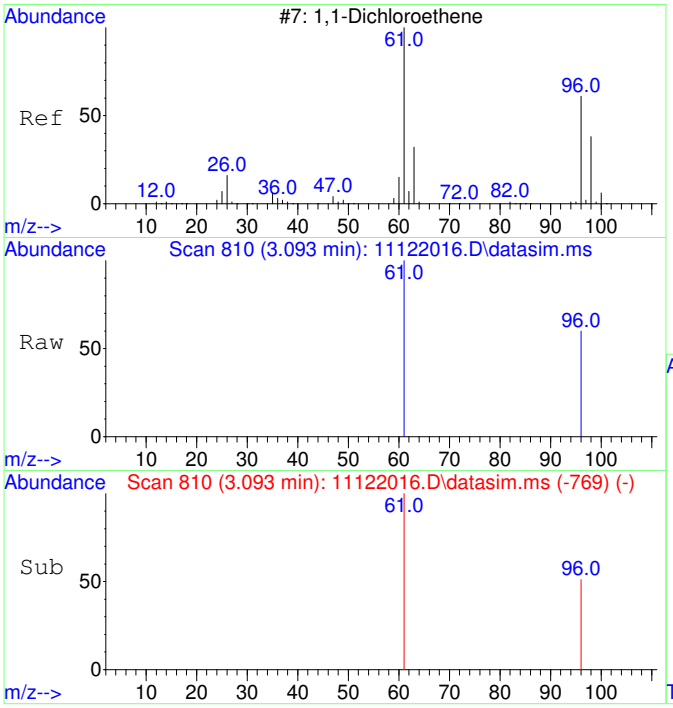


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:109 Resp: 454338

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

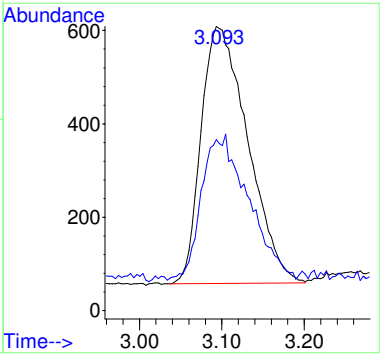


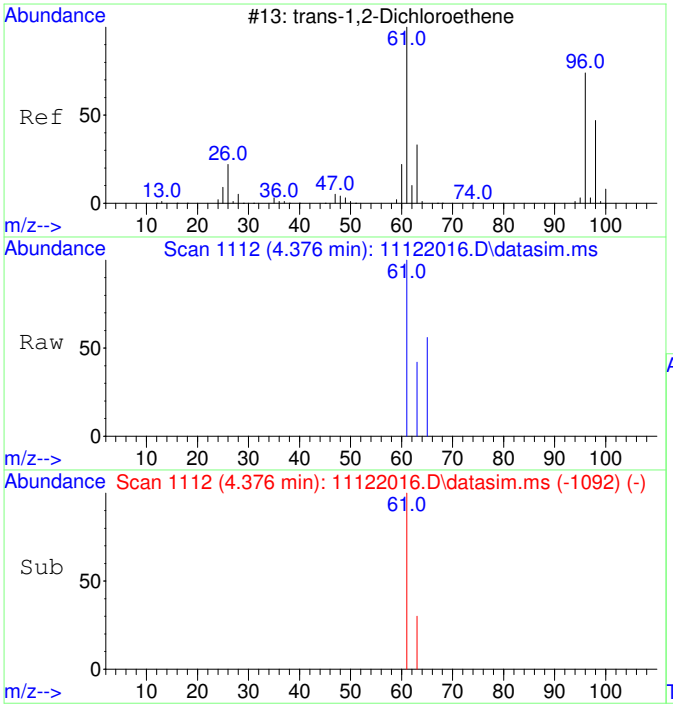


#2
1,1-Dichloroethene
Concen: 119.66 ug/L m
RT: 3.093 min Scan# 810
Delta R.T. 0.004 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 61 Resp: 2171

Ion	Ratio	Lower	Upper
61	100		
96	22.9	37.2	97.2#

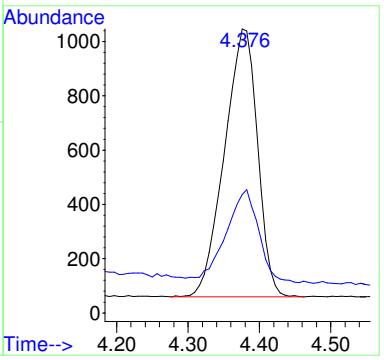


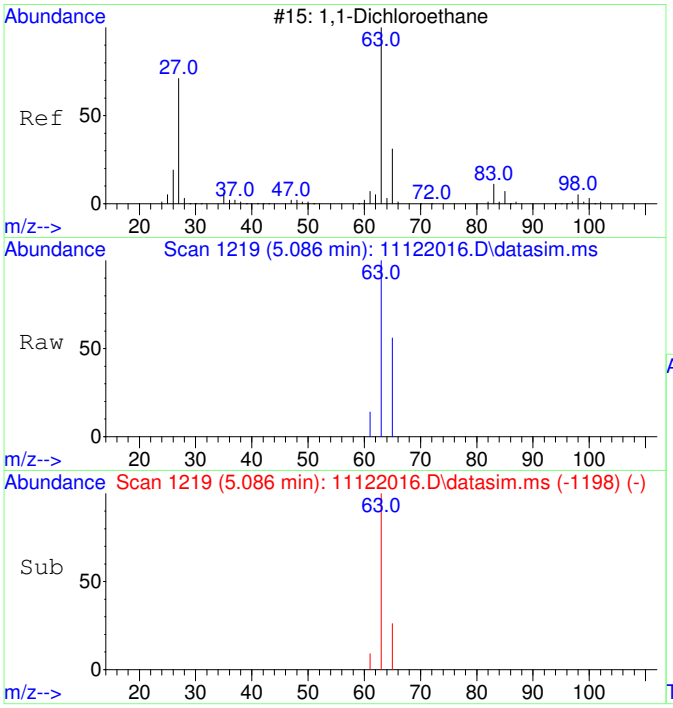


#3
trans-1,2-Dichloroethene
Concen: 151.99 ug/L
RT: 4.376 min Scan# 1112
Delta R.T. -0.020 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 61 Resp: 3186

Ion	Ratio	Lower	Upper
61	100		
63	34.8	2.4	62.4

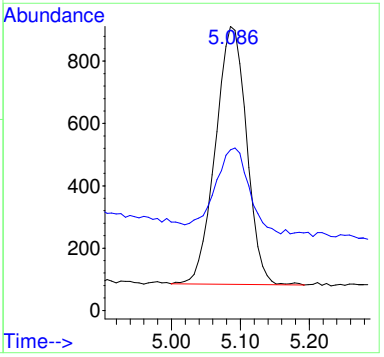


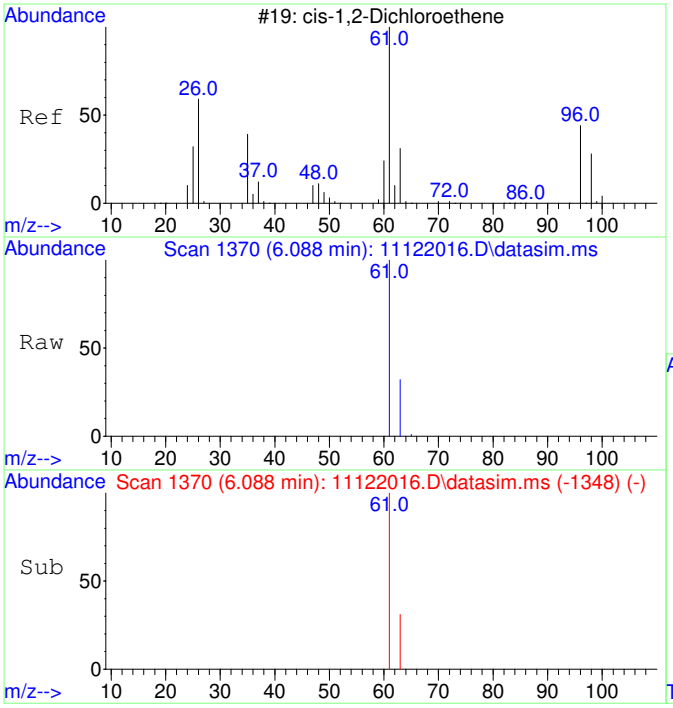


#4
1,1-Dichloroethane
Concen: 99.41 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. -0.013 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 63 Resp: 2594

Ion	Ratio	Lower	Upper
63	100		
65	37.1	1.8	61.8

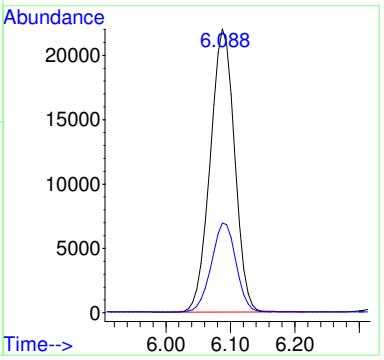


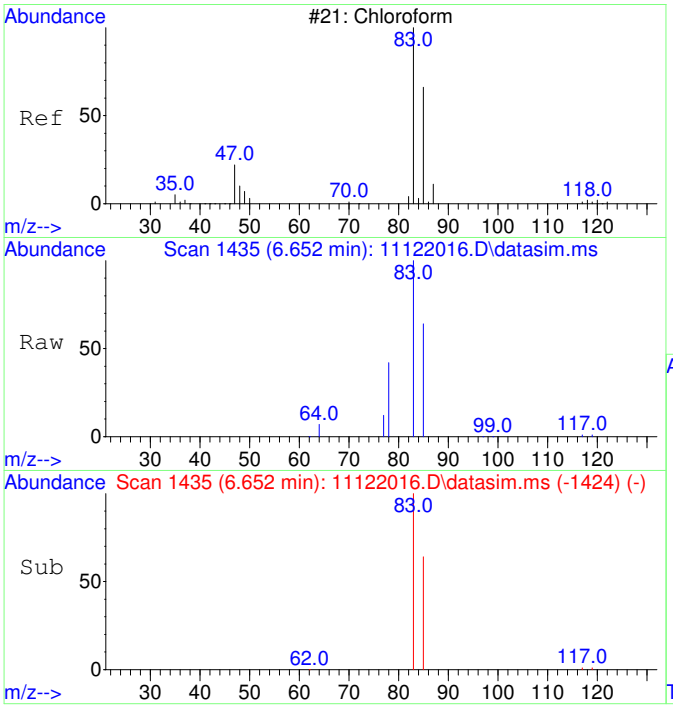


#5
cis-1,2-Dichloroethene
Concen: 2095.22 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 61 Resp: 57708

Ion	Ratio	Lower	Upper
61	100		
63	31.7	2.5	62.5

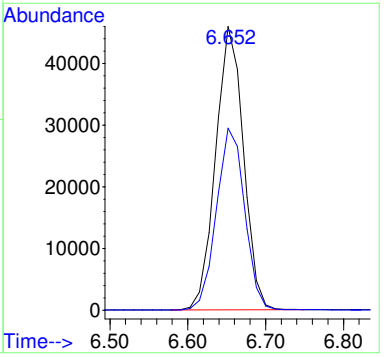


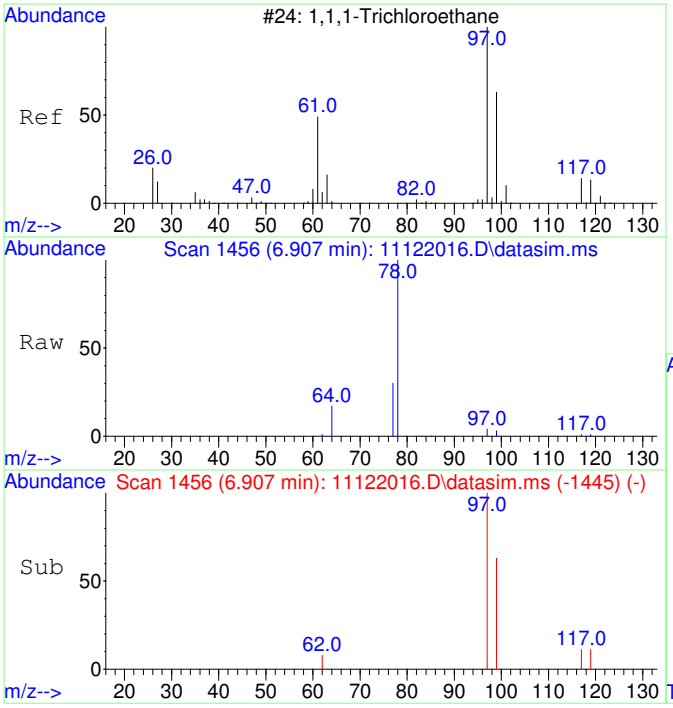


#6
Chloroform
Concen: 4037.64 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 83 Resp: 113825

Ion	Ratio	Lower	Upper
83	100		
85	65.0	35.1	95.1

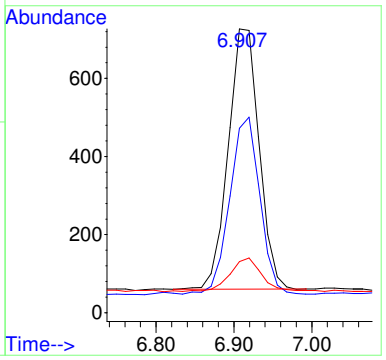


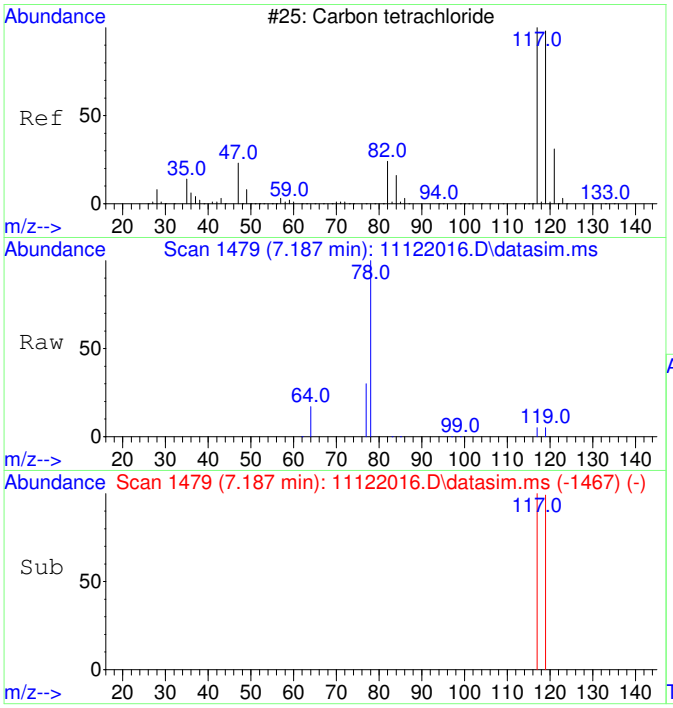


#7
1,1,1-Trichloroethane
Concen: 59.97 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 97 Resp: 1836

Ion	Ratio	Lower	Upper
97	100		
99	66.2	34.6	94.6
117	13.8	0.0	43.2

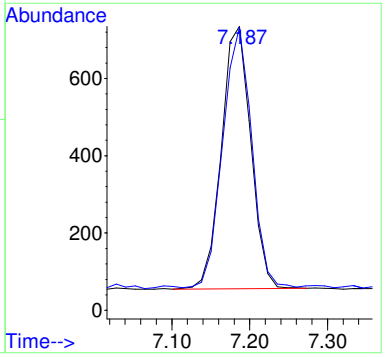


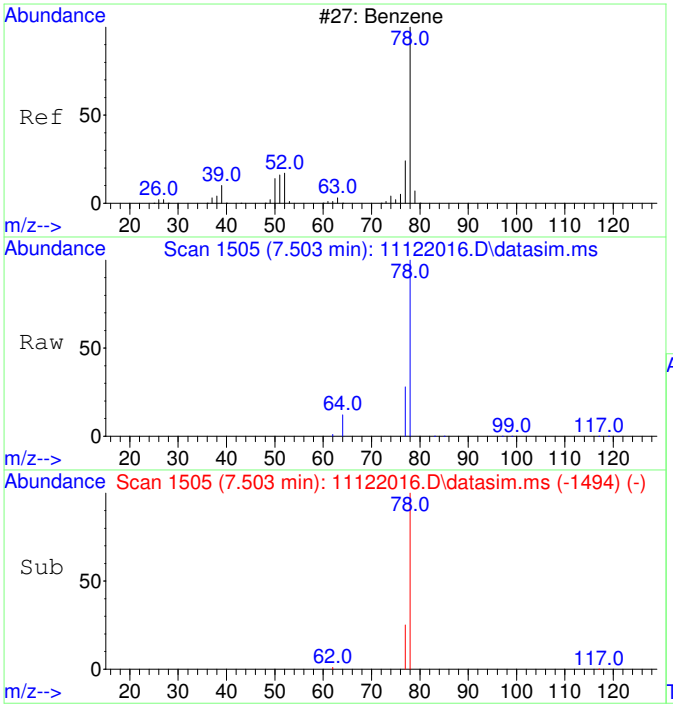


#8
Carbon tetrachloride
Concen: 61.81 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:117 Resp: 1781

Ion	Ratio	Lower	Upper
117	100		
119	97.2	66.4	126.4

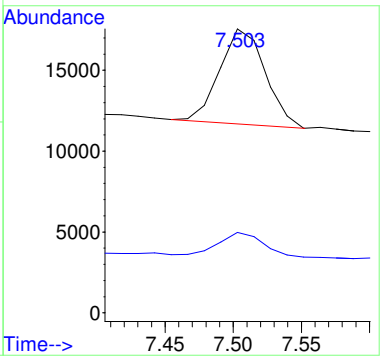


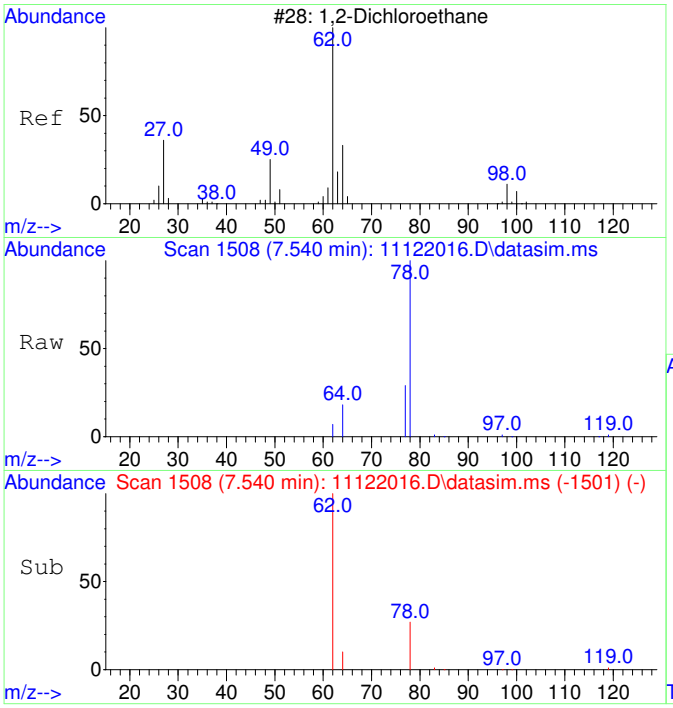


#9
Benzene
Concen: 175.15 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 78 Resp: 13521

Ion	Ratio	Lower	Upper
78	100		
77	30.5	0.0	53.2

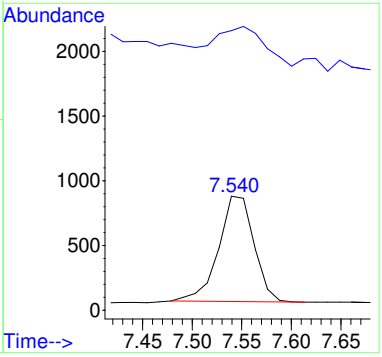


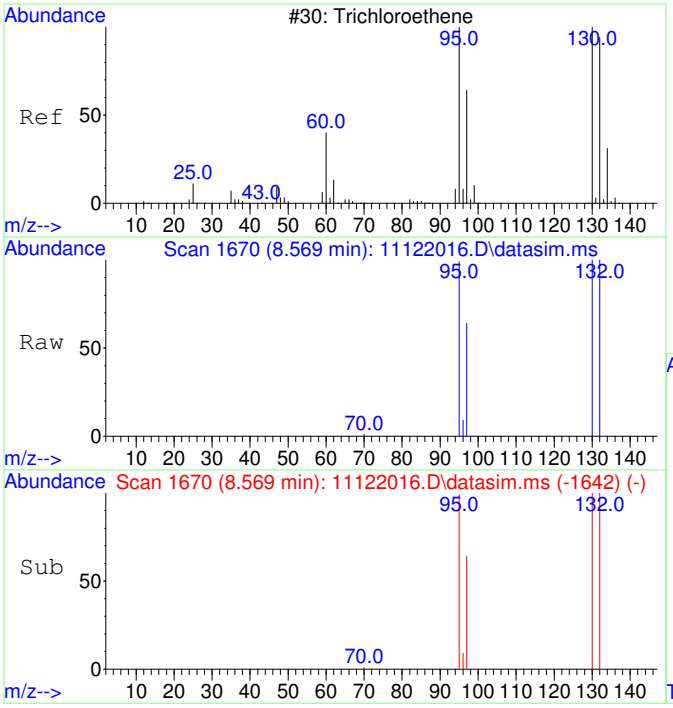


#10
1,2-Dichloroethane
Concen: 73.09 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 62 Resp: 2014

Ion	Ratio	Lower	Upper
62	100		
64	52.4	2.3	62.3

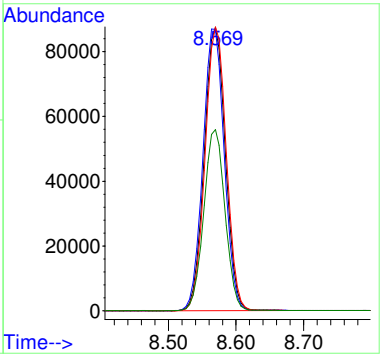


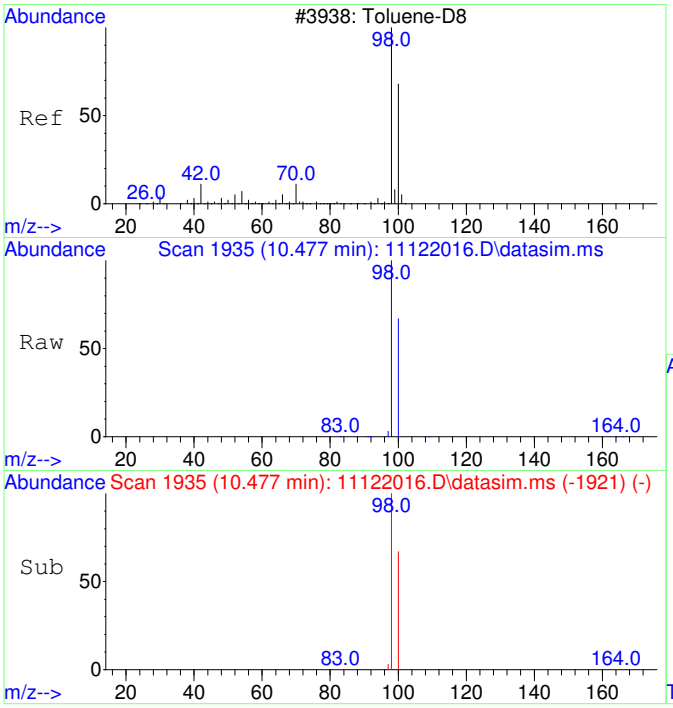


#11
Trichloroethene
Concen: 8154.67 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:130 Resp: 189533

Ion	Ratio	Lower	Upper
130	100		
95	100.2	60.7	120.7
132	100.1	76.0	116.0
97	64.1	38.6	78.6

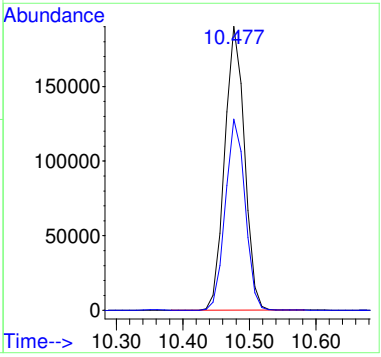


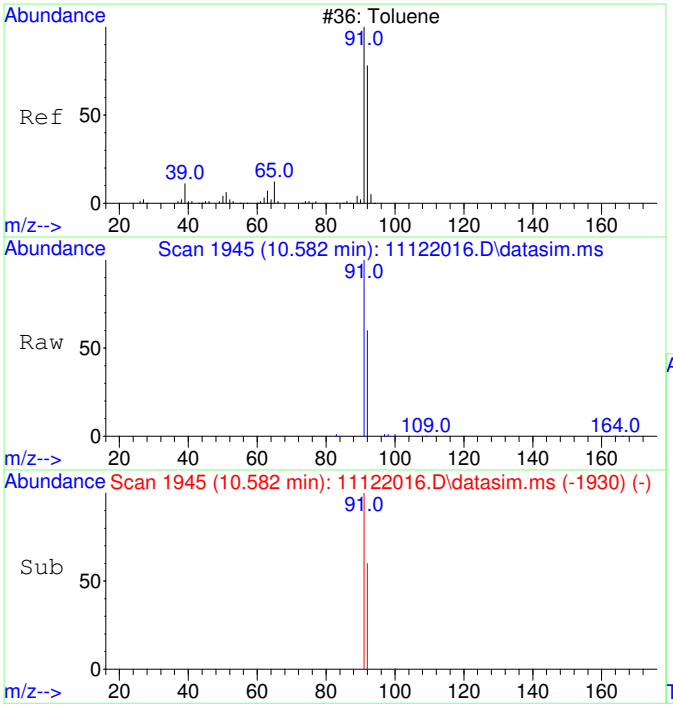


#12
Toluene-d8
Concen: 4415.96 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 98 Resp: 392762

Ion	Ratio	Lower	Upper
98	100		
100	66.9	37.1	97.1

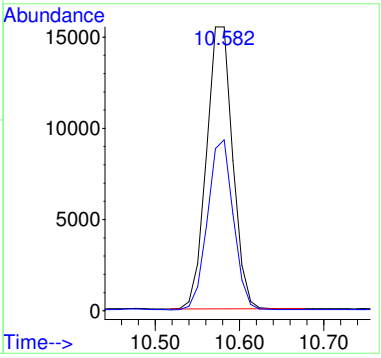


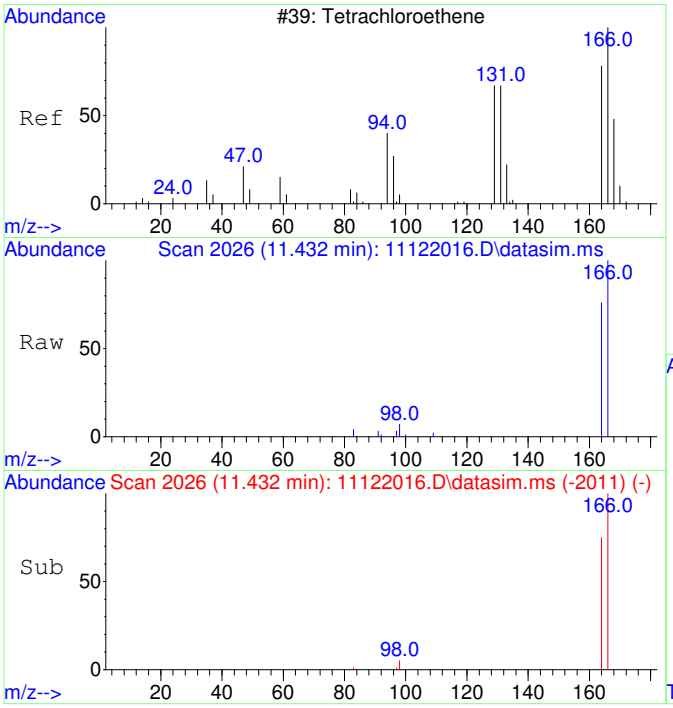


#13
Toluene
Concen: 295.85 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 33547

Ion	Ratio	Lower	Upper
91	100		
92	59.0	29.9	89.9

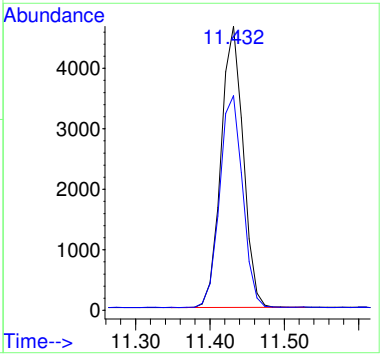


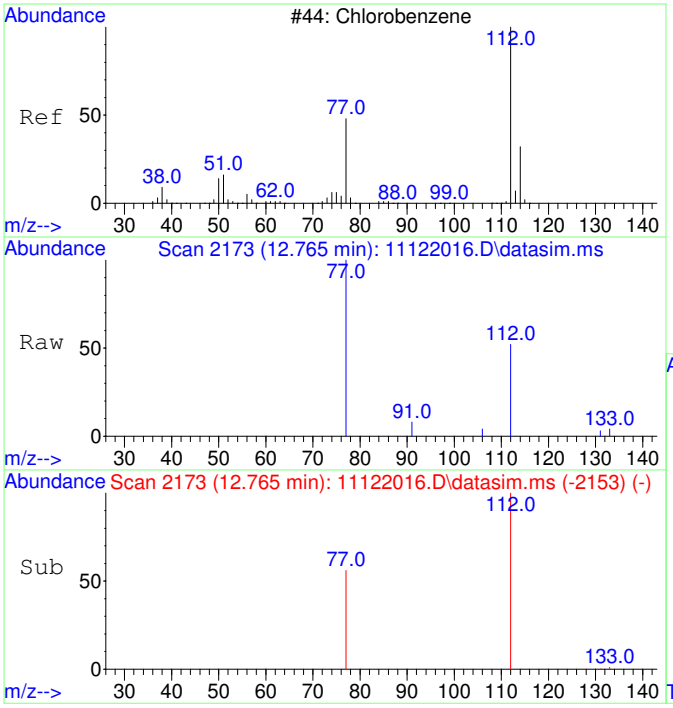


#15
Tetrachloroethene
Concen: 291.69 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:166 Resp: 9572

Ion	Ratio	Lower	Upper
166	100		
164	77.8	47.8	107.8

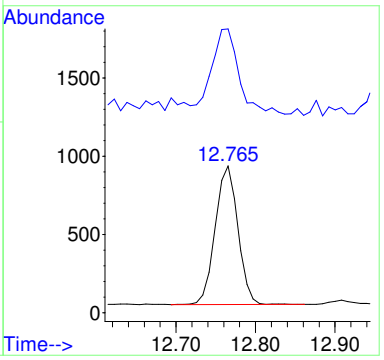


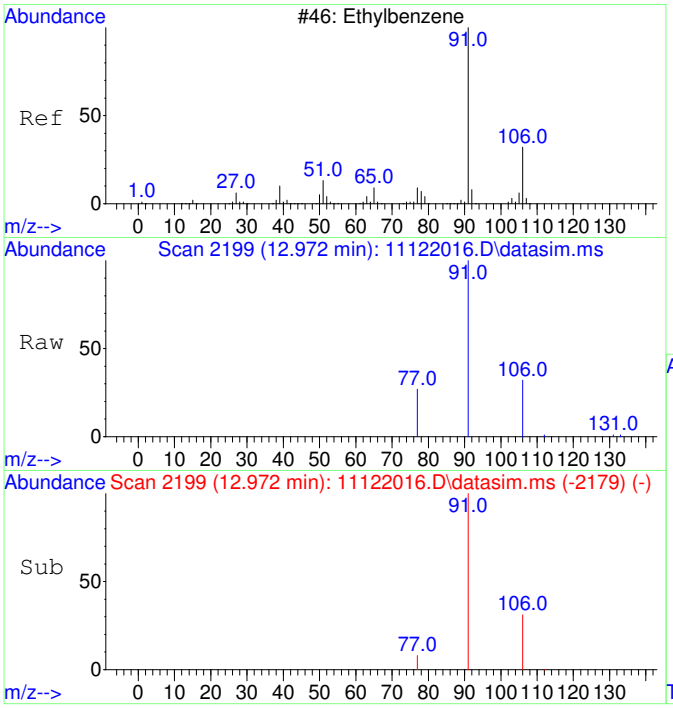


#16
Chlorobenzene
Concen: 21.64 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:112 Resp: 1757

Ion	Ratio	Lower	Upper
112	100		
77	73.8	23.6	83.6

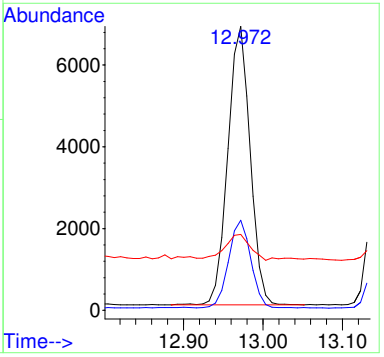


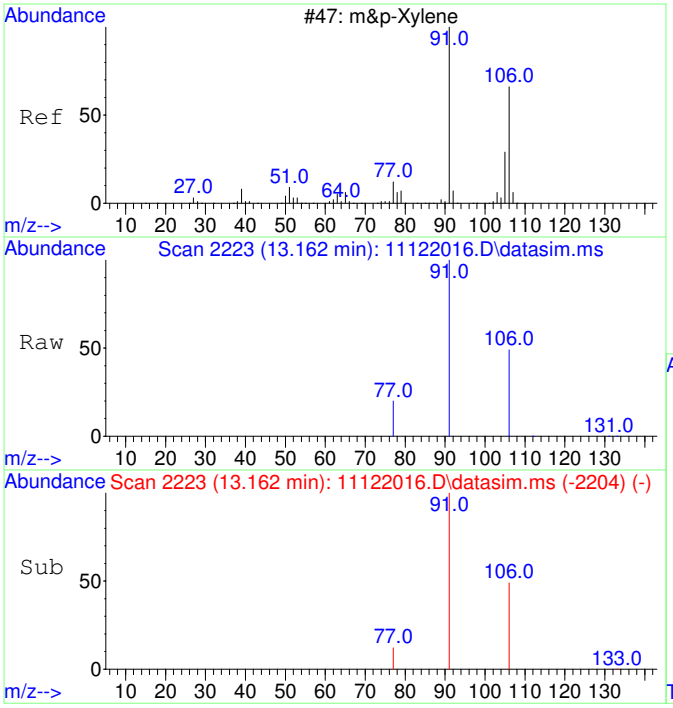


#18
Ethylbenzene
Concen: 96.93 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 13379

Ion	Ratio	Lower	Upper
91	100		
106	31.2	3.0	63.0
77	9.7	0.0	38.2

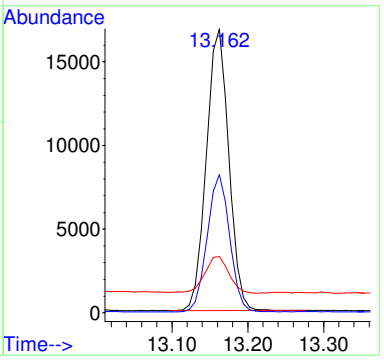


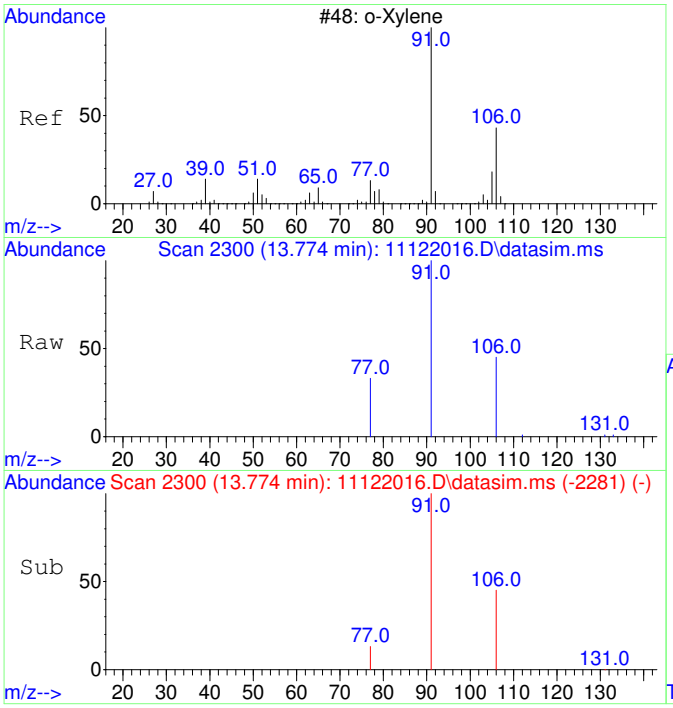


#19
m&p-Xylene
Concen: 320.93 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 34620

Ion	Ratio	Lower	Upper
91	100		
106	48.6	22.2	82.2
77	13.9	0.0	42.4

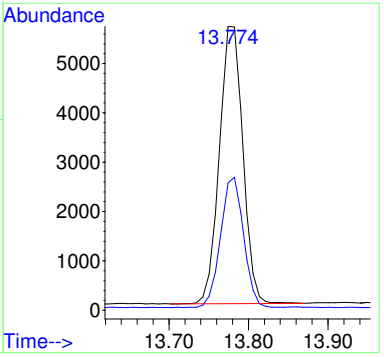


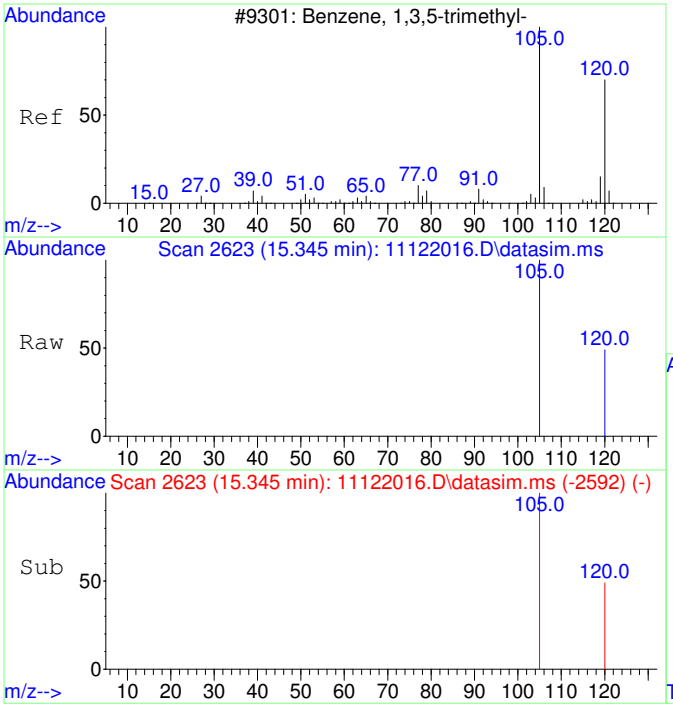


#20
o-Xylene
Concen: 100.65 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 11600

Ion	Ratio	Lower	Upper
91	100		
106	45.8	19.2	79.2

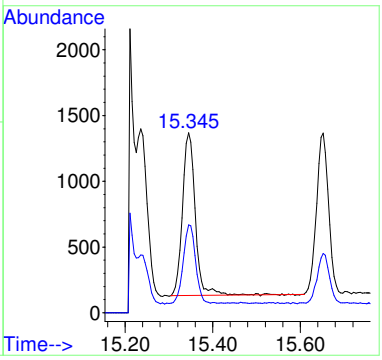


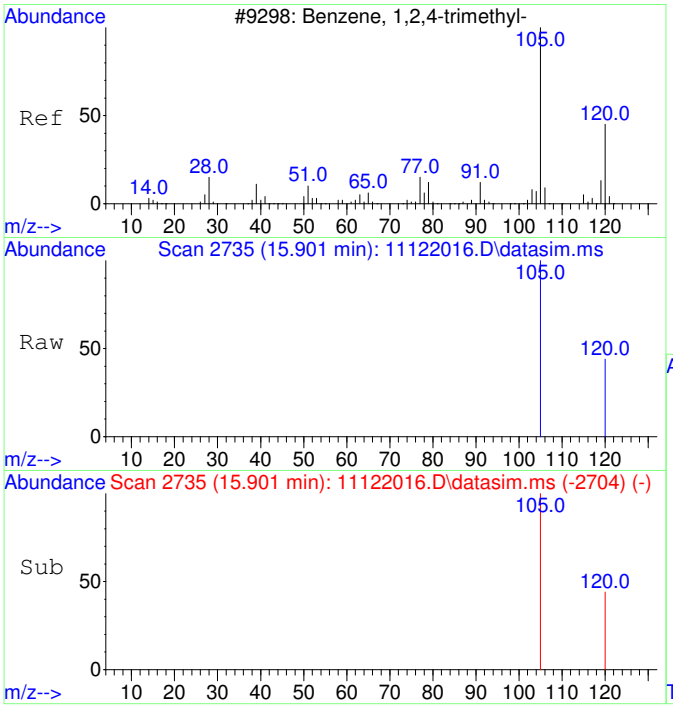


#22
1,3,5-Trimethylbenzene
Concen: 20.48 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:105 Resp: 2512

Ion	Ratio	Lower	Upper
105	100		
120	46.2	21.1	81.1

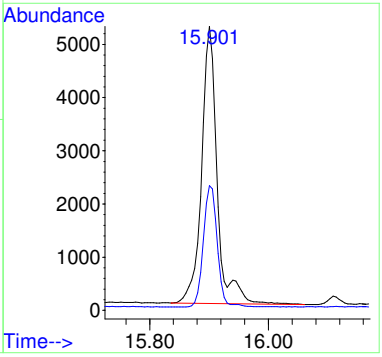


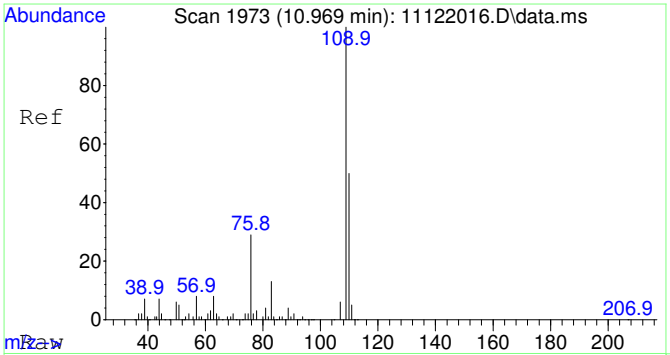


#23
1,2,4-Trimethylbenzene
Concen: 74.38 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:105 Resp: 9477

Ion	Ratio	Lower	Upper
105	100		
120	39.2	17.2	77.2

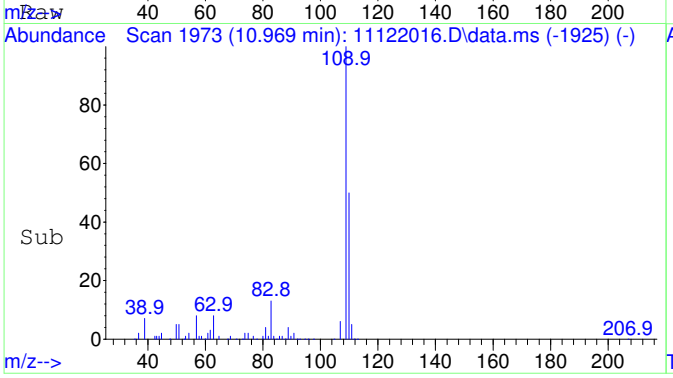


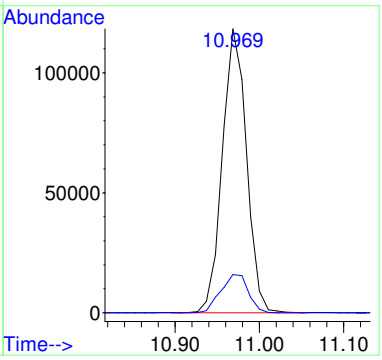


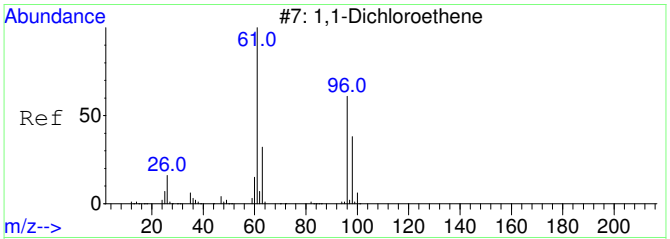
#25
2-Fluorotoluene SCAN
Concen: 5332.63 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:109 Resp: 236180

Ion	Ratio	Lower	Upper
109	100		
83	15.4	0.0	43.8



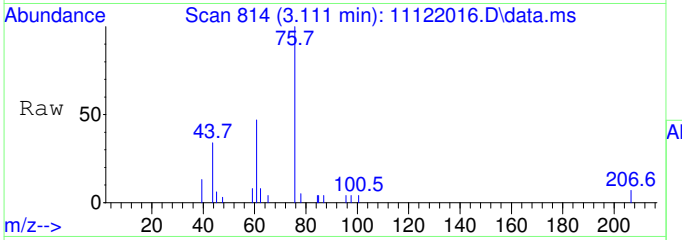


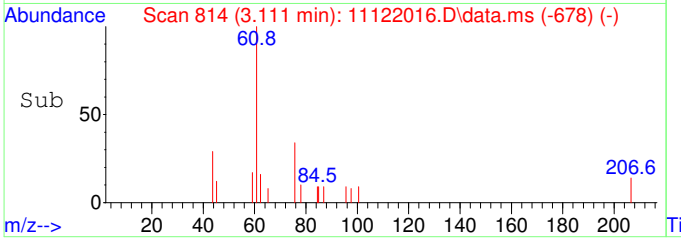


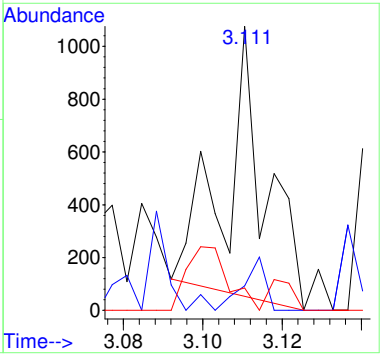
#26
1,1-Dichloroethene SCAN
Concen: 75.70 ug/L
RT: 3.111 min Scan# 814
Delta R.T. 0.004 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

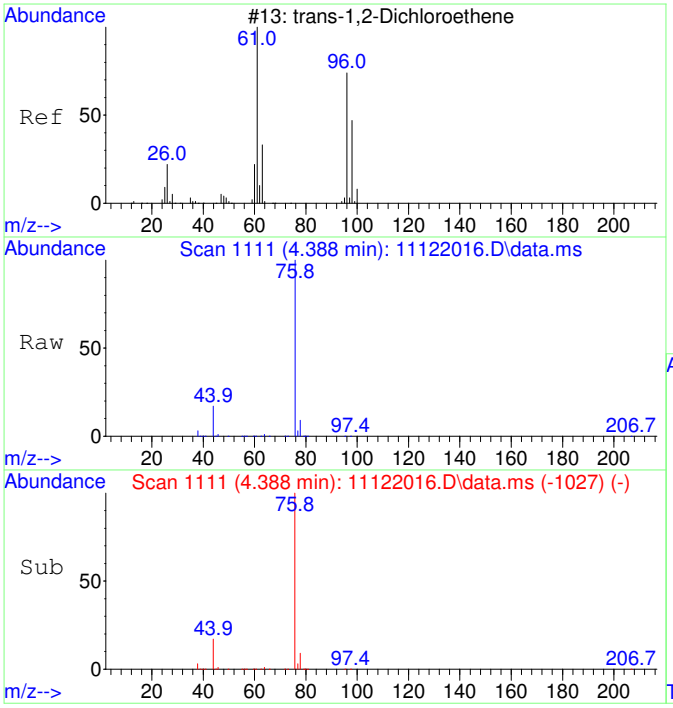
Tgt Ion: 61 Resp: 712

Ion	Ratio	Lower	Upper
61	100		
96	11.0	33.1	93.1#
98	24.7	11.2	71.2





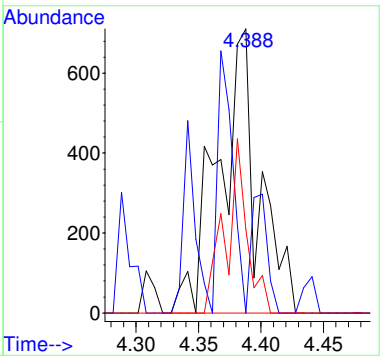


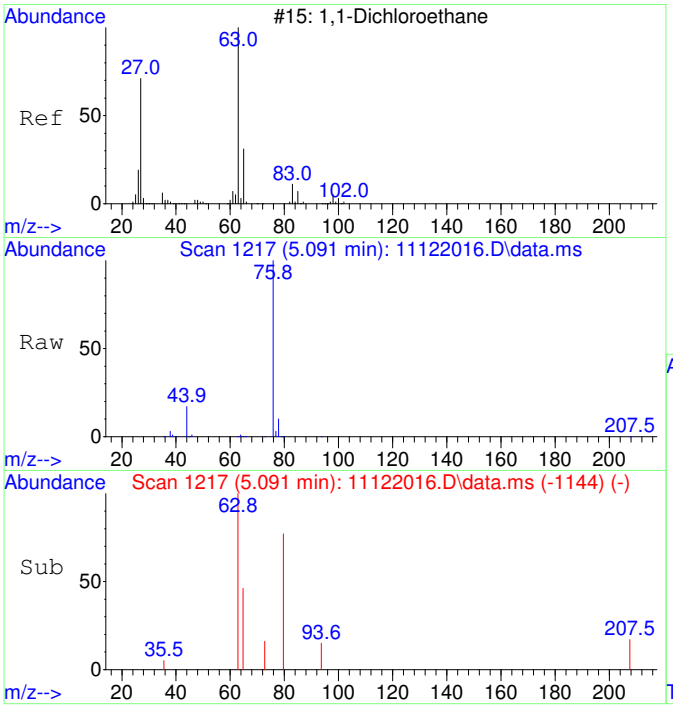


#27
trans-1,2-Dichloroethene SCAN
Concen: 135.15 ug/L
RT: 4.388 min Scan# 1111
Delta R.T. -0.013 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 61 Resp: 1573

Ion	Ratio	Lower	Upper
61	100		
96	35.0	49.0	109.0#
98	32.2	20.5	80.5

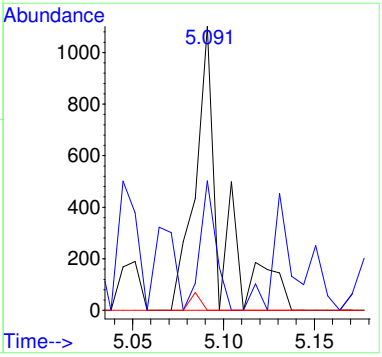


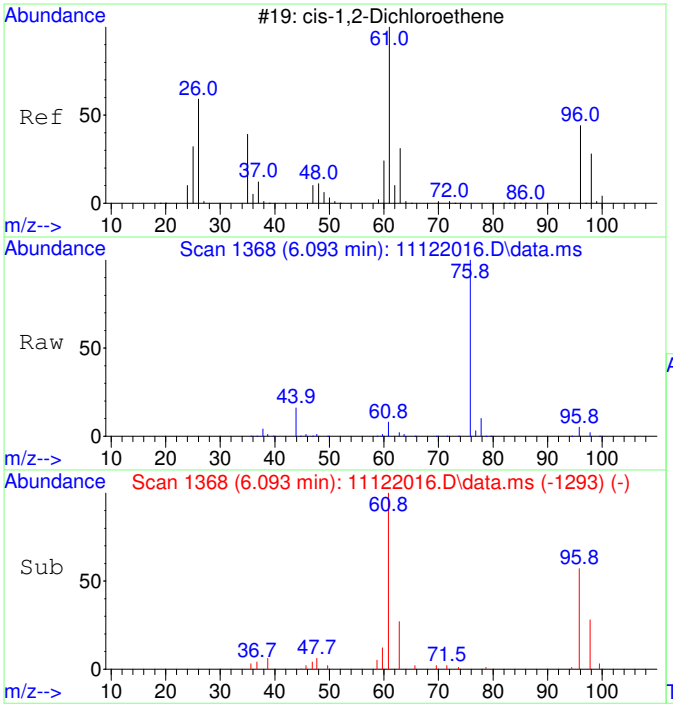


#28
1,1-Dichloroethane SCAN
Concen: 82.48 ug/L
RT: 5.091 min Scan# 1217
Delta R.T. -0.013 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 63 Resp: 1111

Ion	Ratio	Lower	Upper
63	100		
65	27.7	1.3	61.3
83	0.0	0.0	45.9

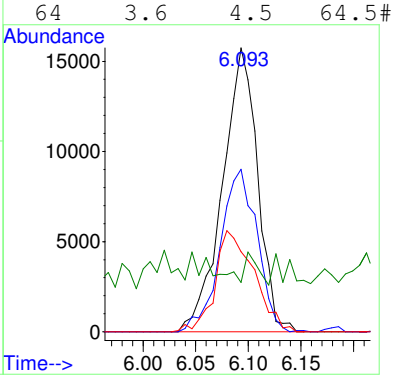


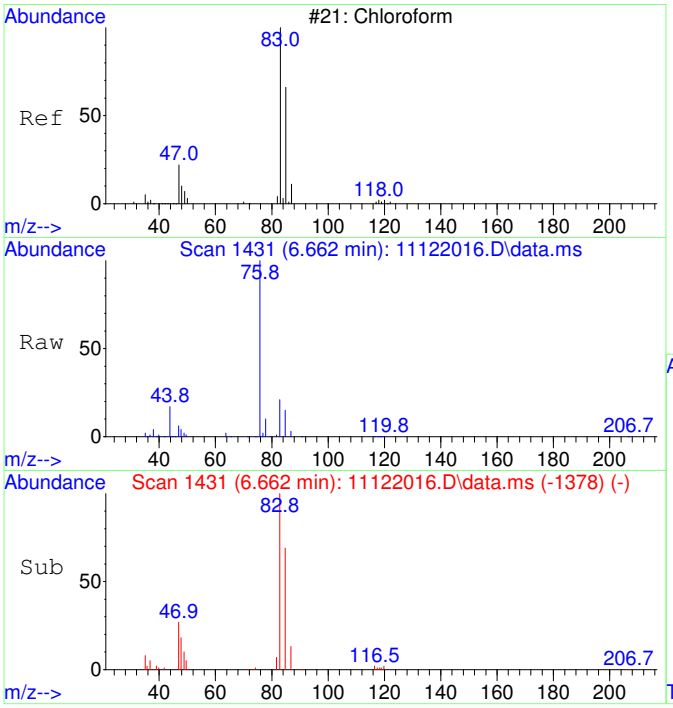


#29
cis-1,2-Dichloroethene SCAN
Concen: 2535.31 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 61 Resp: 36589

Ion	Ratio	Lower	Upper
61	100		
96	59.8	39.9	99.9
98	39.3	13.5	73.5
64	3.6	4.5	64.5#

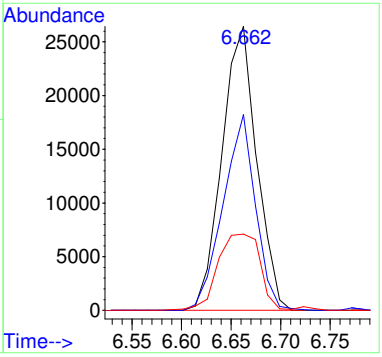


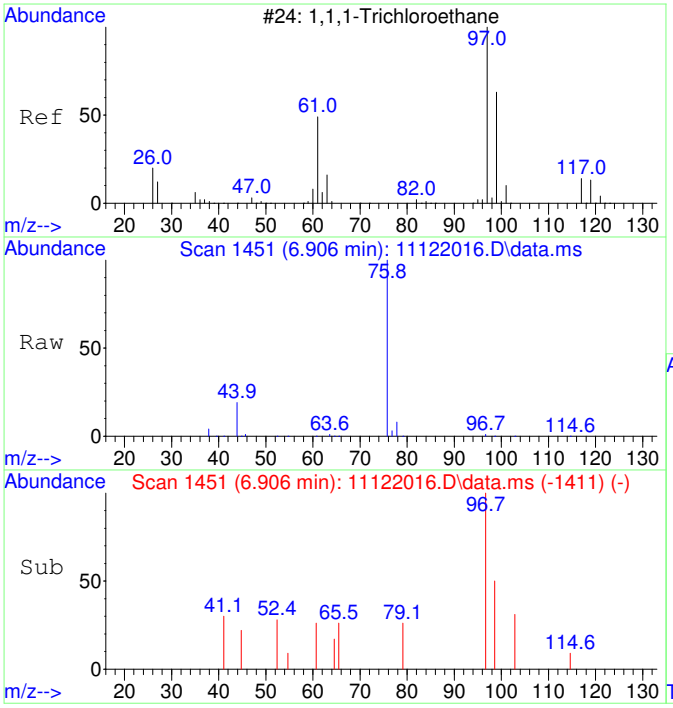


#30
Chloroform SCAN
Concen: 4130.39 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 83 Resp: 64654

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.6	94.6
47	32.1	0.0	53.4

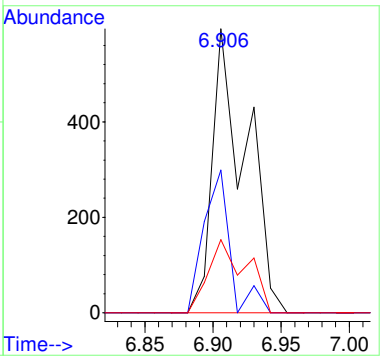


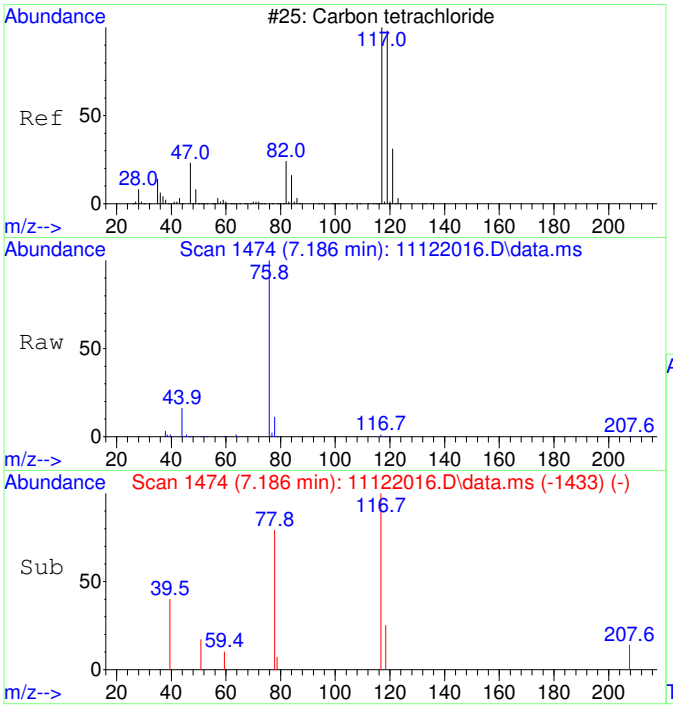


#31
1,1,1-Trichloroethane SCAN
Concen: 72.28 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 97 Resp: 1031

Ion	Ratio	Lower	Upper
97	100		
99	38.7	43.6	103.6#
61	29.0	18.0	78.0

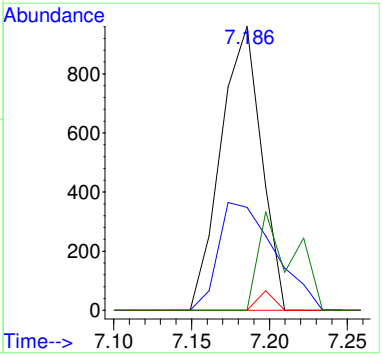


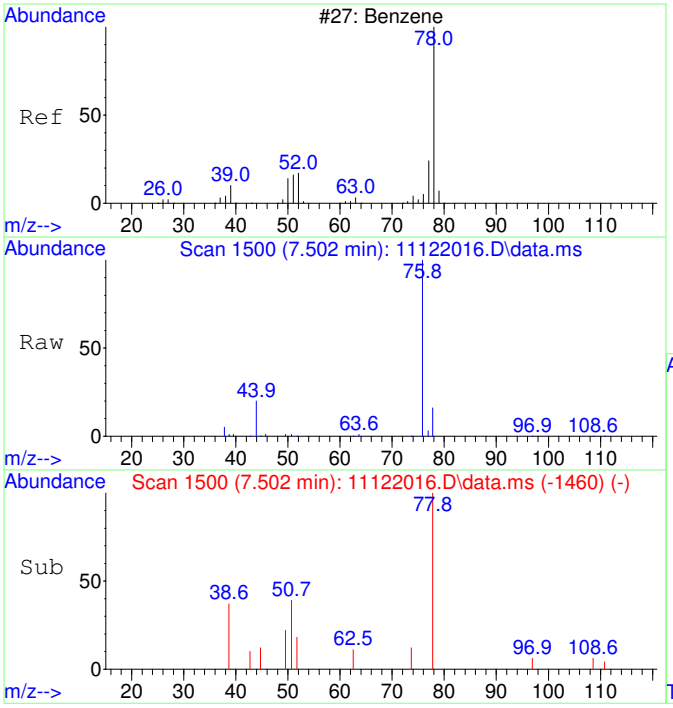


#32
Carbon tetrachloride SCAN
Concen: 117.14 ug/L
RT: 7.186 min Scan# 1474
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:117 Resp: 1743

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	0.0	0.0	58.8
82	29.5	0.0	59.2

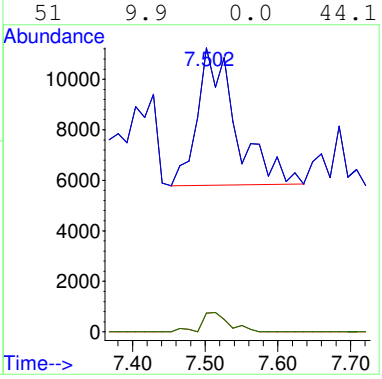


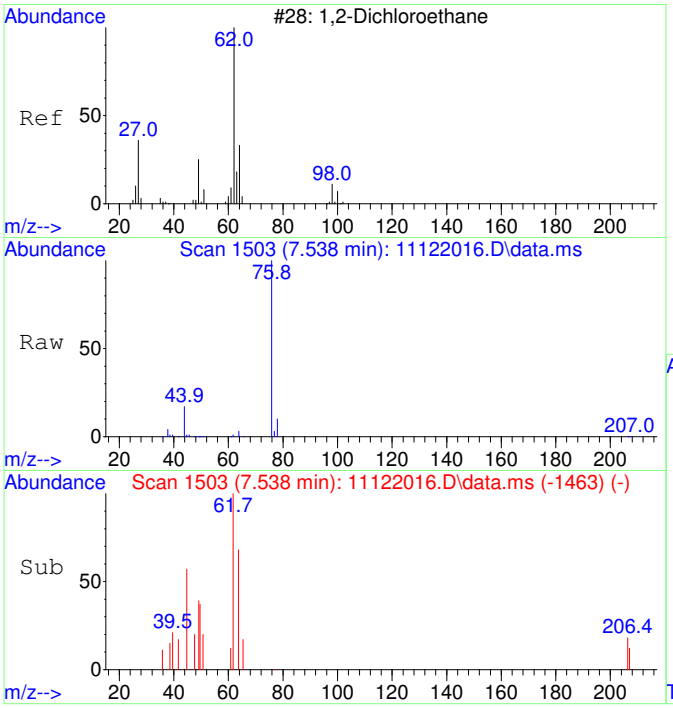


#33
Benzene SCAN
Concen: 509.10 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 78 Resp: 19995

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	9.9	0.0	47.9
51	9.9	0.0	44.1

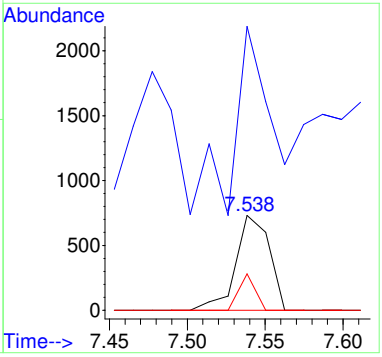


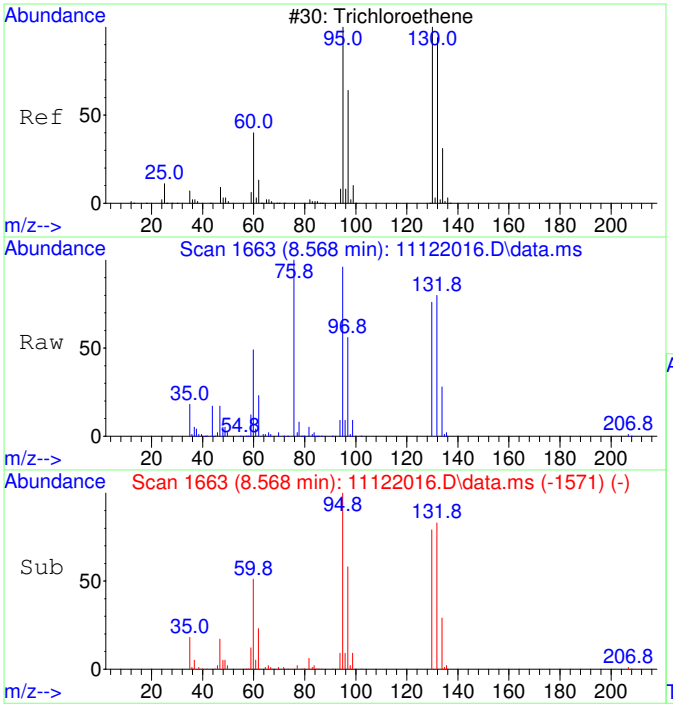


#34
1,2-Dichloroethane SCAN
Concen: 75.92 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 62 Resp: 1101

Ion	Ratio	Lower	Upper
62	100		
64	455.4	5.2	65.2#
49	18.7	3.9	63.9

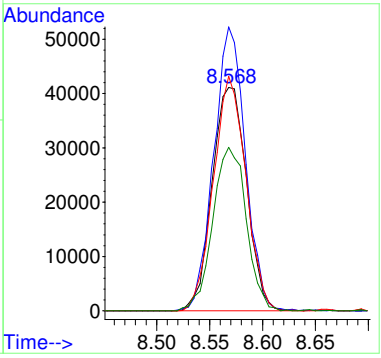


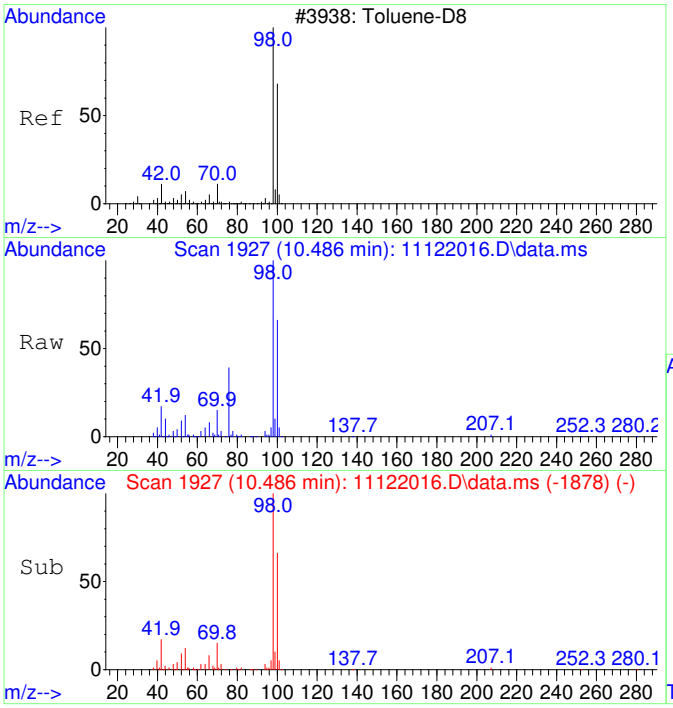


#35
Trichloroethene SCAN
Concen: 8634.26 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:130 Resp: 93191

Ion	Ratio	Lower	Upper
130	100		
95	116.7	60.5	120.5
132	98.7	59.6	119.6
97	71.1	28.2	88.2

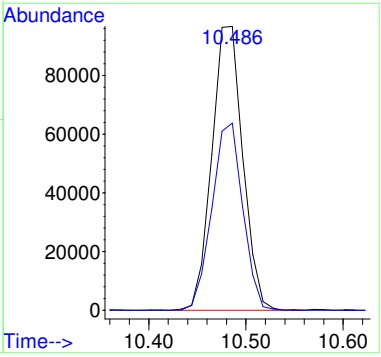


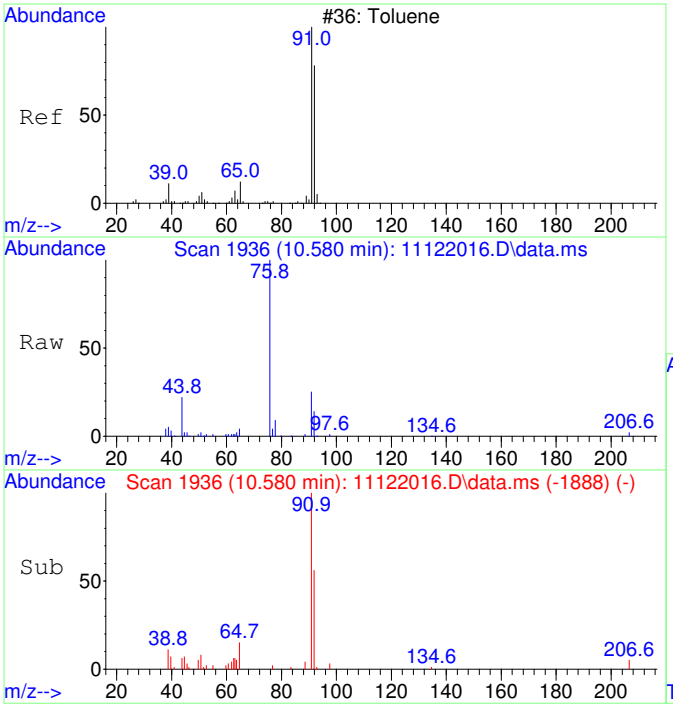


#36
Toluene-d8 SCAN
Concen: 4936.25 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 98 Resp: 213808

Ion	Ratio	Lower	Upper
98	100		
100	65.6	40.0	100.0

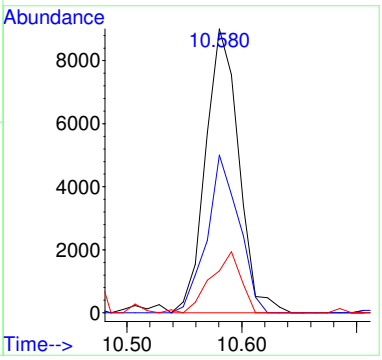


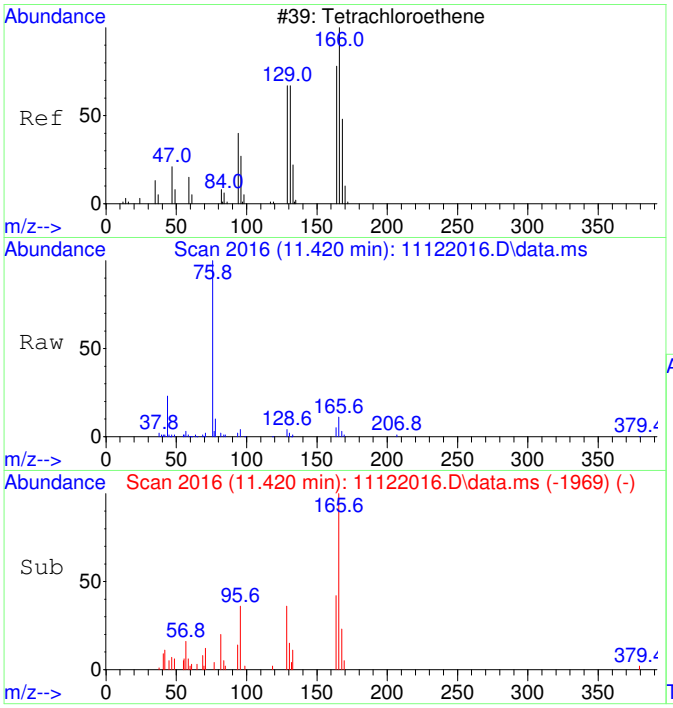


#37
Toluene SCAN
Concen: 326.29 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 18099

Ion	Ratio	Lower	Upper
91	100		
92	53.5	28.3	88.3
65	19.6	0.0	41.0

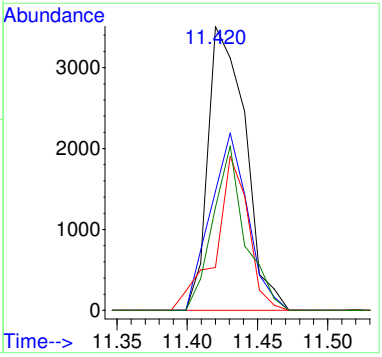


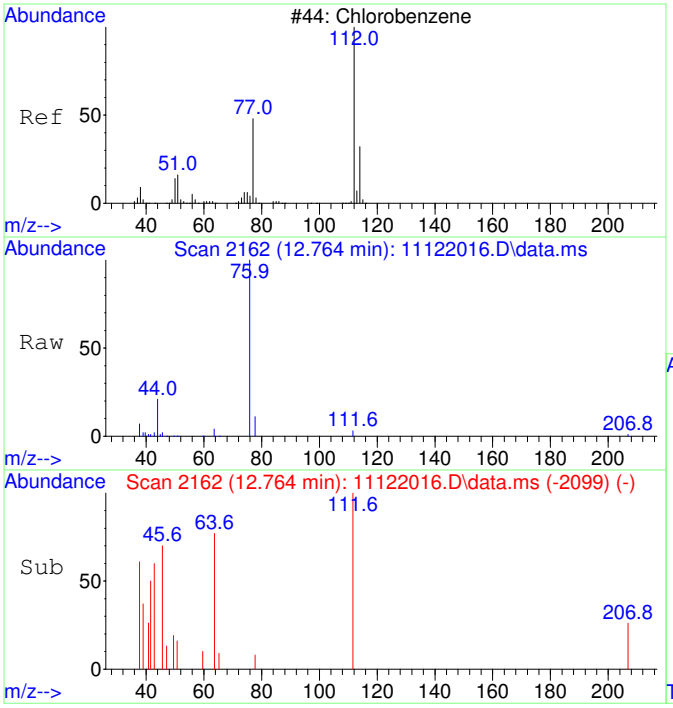


#39
Tetrachloroethene SCAN
Concen: 490.23 ug/L
RT: 11.420 min Scan# 2016
Delta R.T. -0.010 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:166 Resp: 6533

Ion	Ratio	Lower	Upper
166	100		
164	62.1	50.9	110.9
131	47.3	38.7	98.7
129	50.1	41.8	101.8

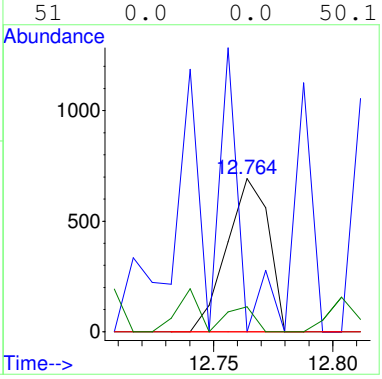


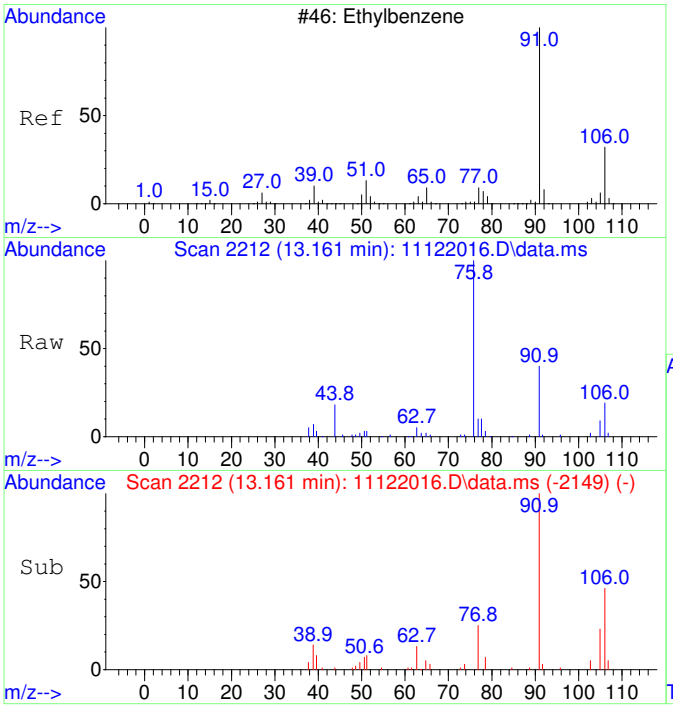


#40
Chlorobenzene SCAN
Concen: 22.37 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:112 Resp: 848

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

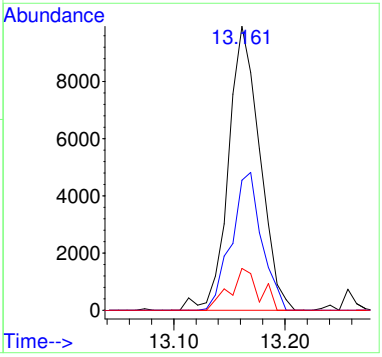


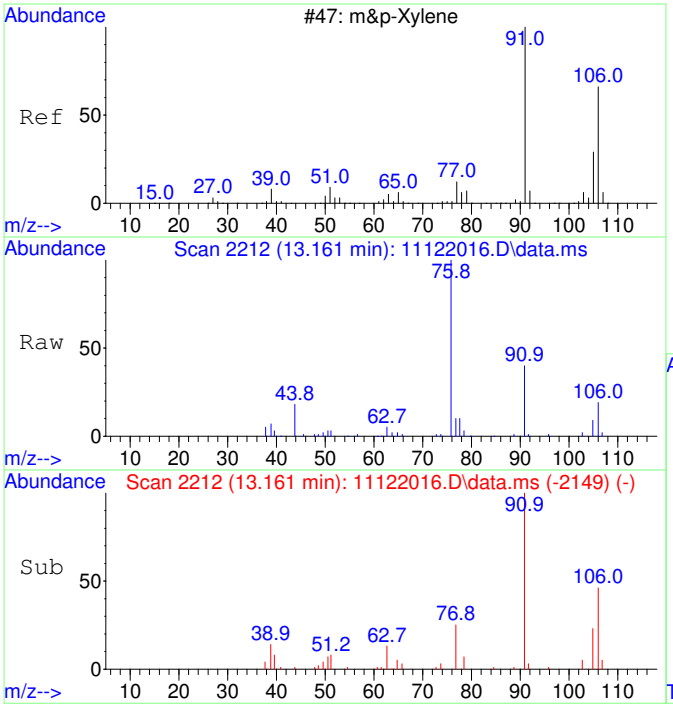


#42
Ethylbenzene SCAN
Concen: 192.64 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 19468

Ion	Ratio	Lower	Upper
91	100		
106	47.0	23.1	83.1
51	13.8	0.0	40.1

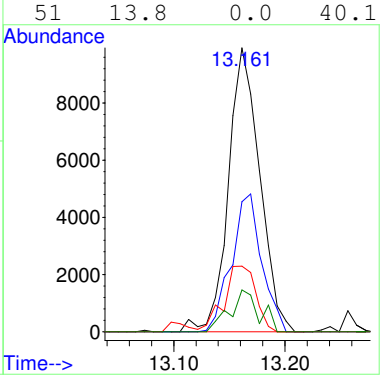


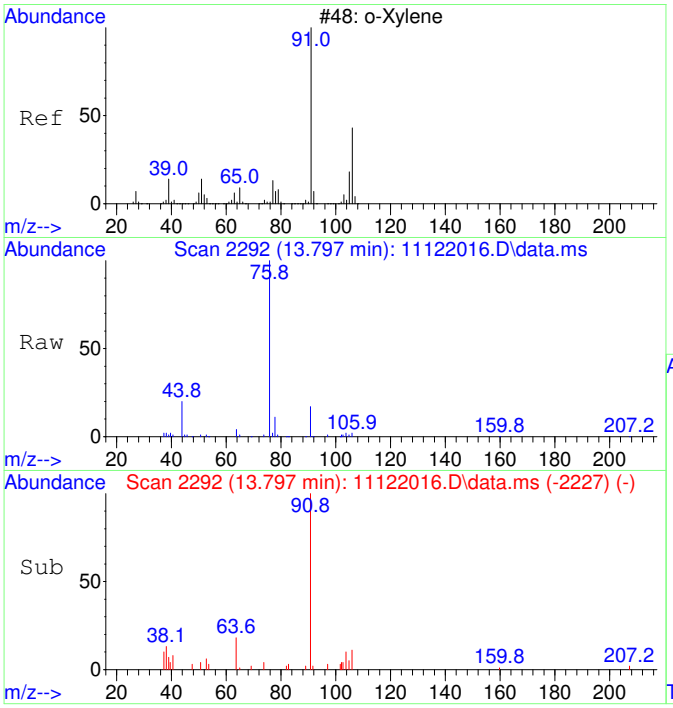


#43
m&p-Xylene SCAN
Concen: 192.64 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 19468

Ion	Ratio	Lower	Upper
91	100		
106	47.0	23.1	83.1
105	22.5	0.0	54.7
51	13.8	0.0	40.1

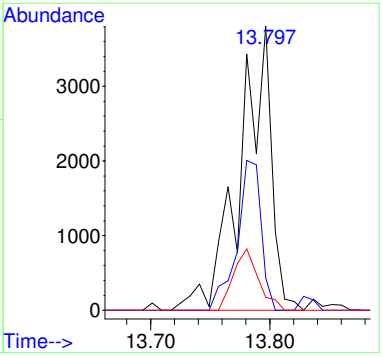


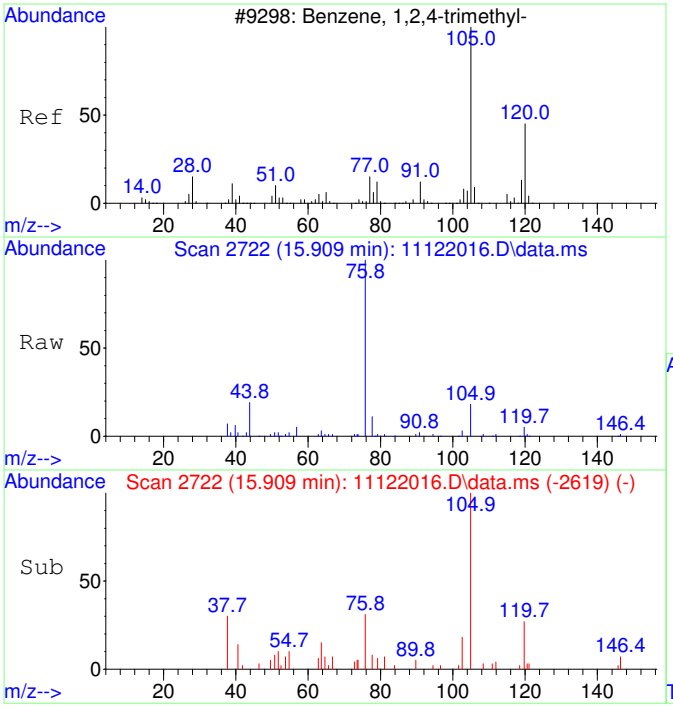


#44
o-Xylene SCAN
Concen: 129.39 ug/L
RT: 13.797 min Scan# 2292
Delta R.T. 0.016 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 91 Resp: 6999

Ion	Ratio	Lower	Upper
91	100		
106	40.2	18.0	78.0
105	17.3	0.0	56.6

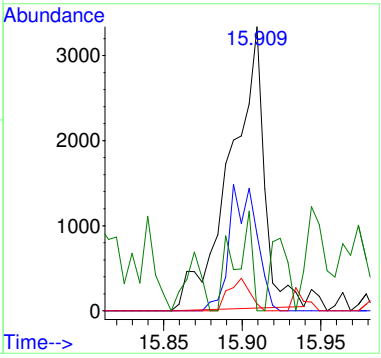




#47
1,2,4-Trimethylbenzene SCAN
Concen: 84.72 ug/L
RT: 15.909 min Scan# 2722
Delta R.T. 0.010 min
Lab File: 11122016.D
Acq: 12 Nov 2020 14:23

Tgt Ion:105 Resp: 4942

Ion	Ratio	Lower	Upper
105	100		
120	35.9	16.9	76.9
119	7.2	0.0	41.9
77	18.3	0.0	42.3



2011015-09

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122017.D
Acq On : 12 Nov 2020 14:47
InstName : AG5975C
Operator : TD
Sample : 2011015-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 13 06:13:07 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

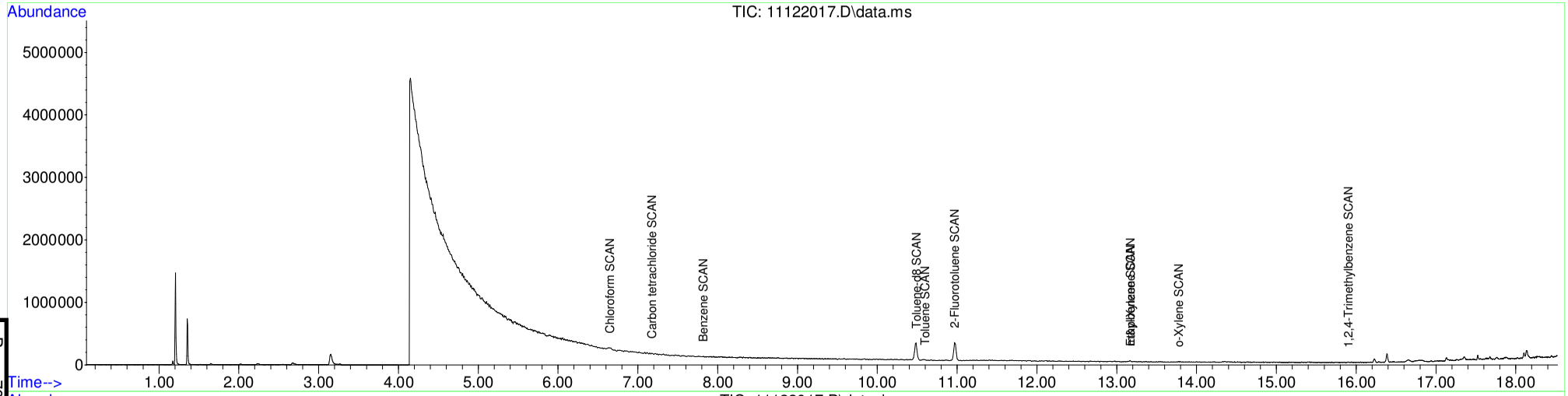
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	443374	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	384545	4430.49	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.61%			
Target Compounds						Qvalue
6] Chloroform	6.652	83	44843	1630.02	ug/L	99
8] Carbon tetrachloride	7.175	117	1699	60.42	ug/L	99
9] Benzene	7.503	78	10830	143.76	ug/L	63
13] Toluene	10.582	91	21103	190.71	ug/L	99
18] Ethylbenzene	12.972	91	6656	49.42	ug/L	94
19] m&p-Xylene	13.162	91	16476	156.51	ug/L	95
20] o-Xylene	13.782	91	5584	49.65	ug/L	97
23] 1,2,4-Trimethylbenzene	15.899	105	6775	54.49	ug/L	89
25) 2-Fluorotoluene SCAN	10.969	109	235342	5445.11	ug/L	95
30) Chloroform SCAN	6.650	83	25842	1691.73	ug/L	90
32) Carbon tetrachloride SCAN	7.173	117	417	28.72	ug/L #	64
33) Benzene SCAN	7.822	78	2774	72.38	ug/L	93
36) Toluene-d8 SCAN	10.486	98	216157	5113.89	ug/L	95
37) Toluene SCAN	10.591	91	10533	194.58	ug/L #	87
42) Ethylbenzene SCAN	13.169	91	9652	97.87	ug/L	64
43) m&p-Xylene SCAN	13.169	91	9652	97.87	ug/L	67
44) o-Xylene SCAN	13.773	91	4392	83.20	ug/L #	47
47) 1,2,4-Trimethylbenzene...	15.898	105	2979	52.33	ug/L #	23

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122017.D
Acq On : 12 Nov 2020 14:47
InstName : AG5975C
Operator : TD
Sample : 2011015-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 13 06:13:07 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



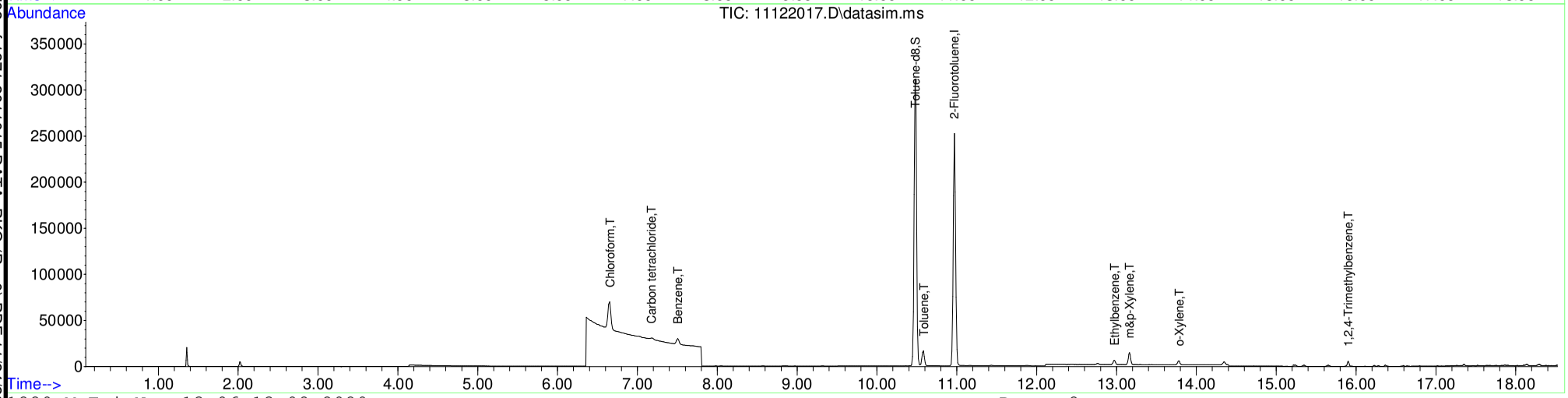
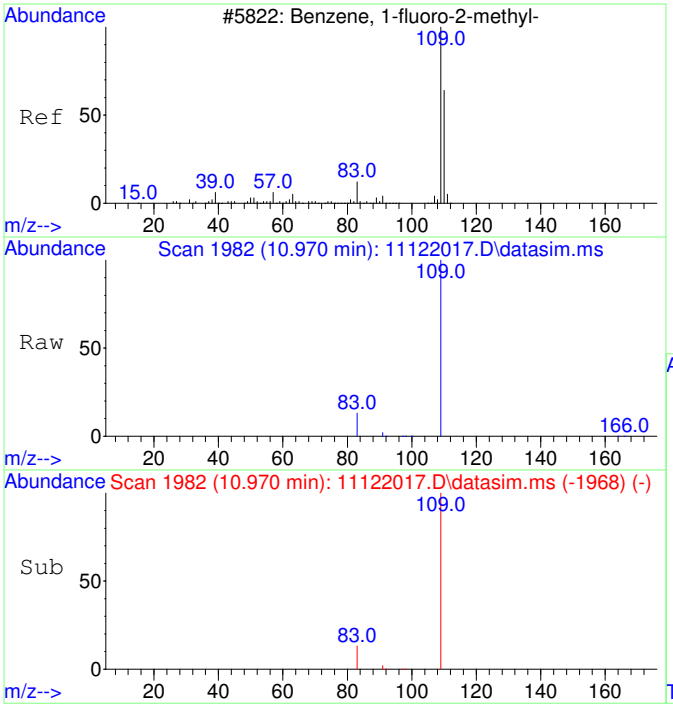


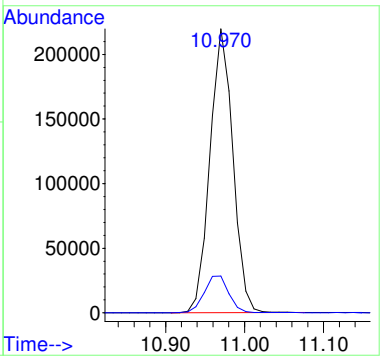
Table of Contents

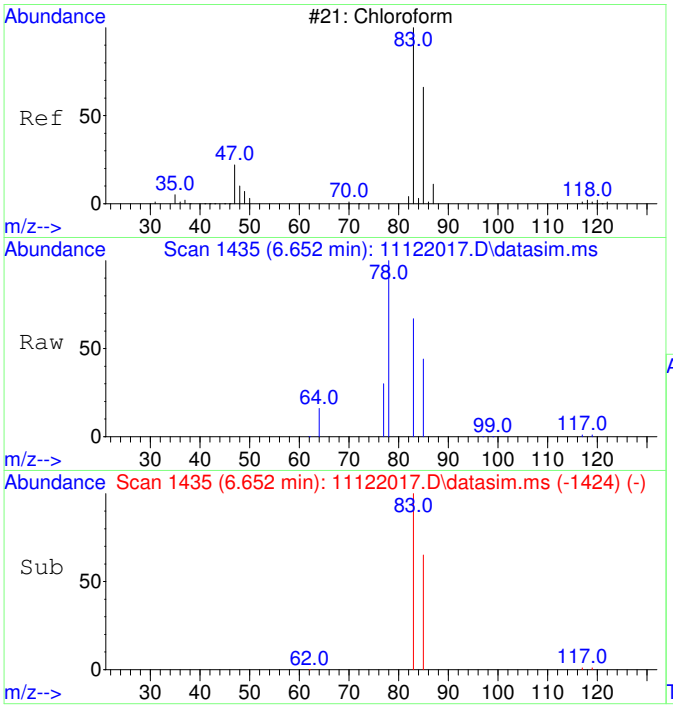


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion:109 Resp: 443374

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

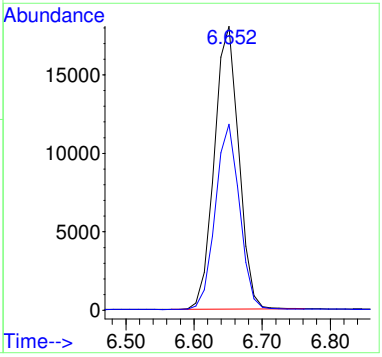


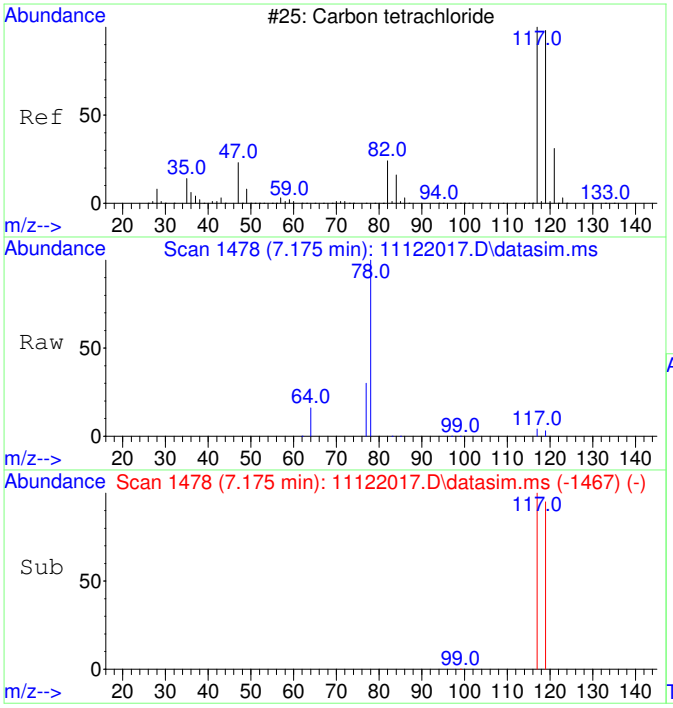


#6
Chloroform
Concen: 1630.02 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion: 83 Resp: 44843

Ion	Ratio	Lower	Upper
83	100		
85	64.5	35.1	95.1

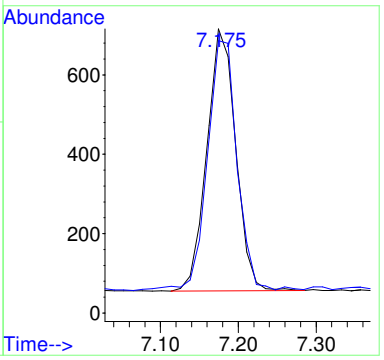


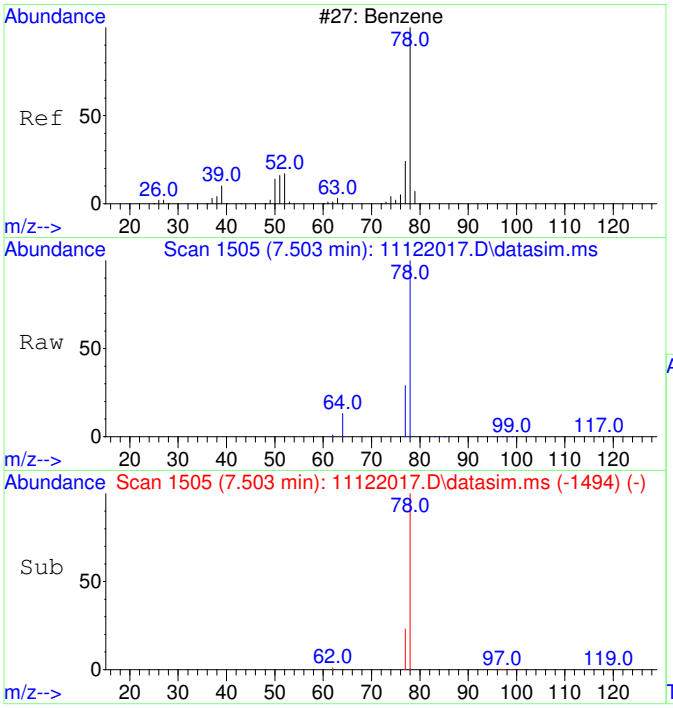


#8
Carbon tetrachloride
Concen: 60.42 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion:117 Resp: 1699

Ion	Ratio	Lower	Upper
117	100		
119	97.1	66.4	126.4

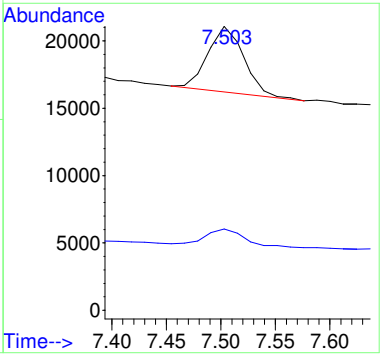


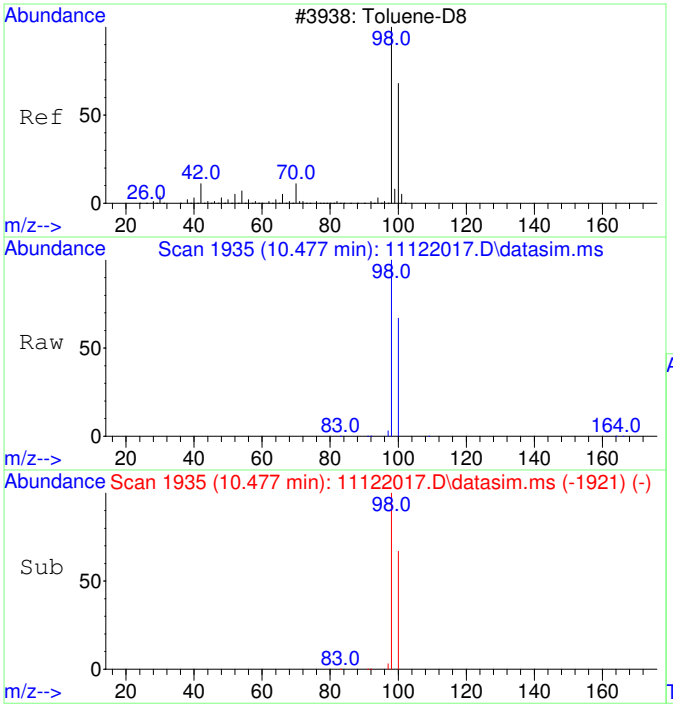


#9
Benzene
Concen: 143.76 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion: 78 Resp: 10830

Ion	Ratio	Lower	Upper
78	100		
77	41.0	0.0	53.2

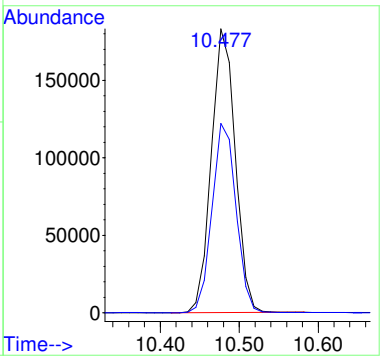


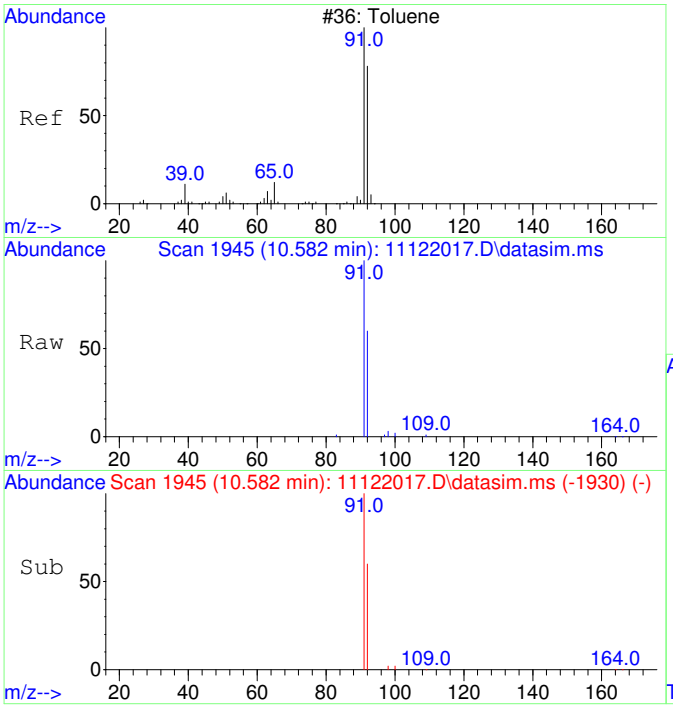


#12
Toluene-d8
Concen: 4430.49 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion: 98 Resp: 384545

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.1	97.1

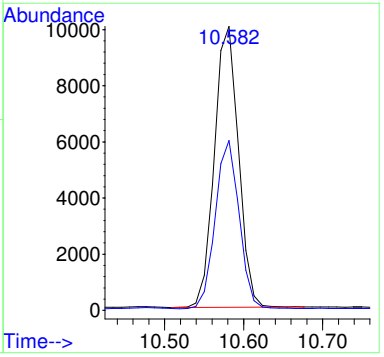


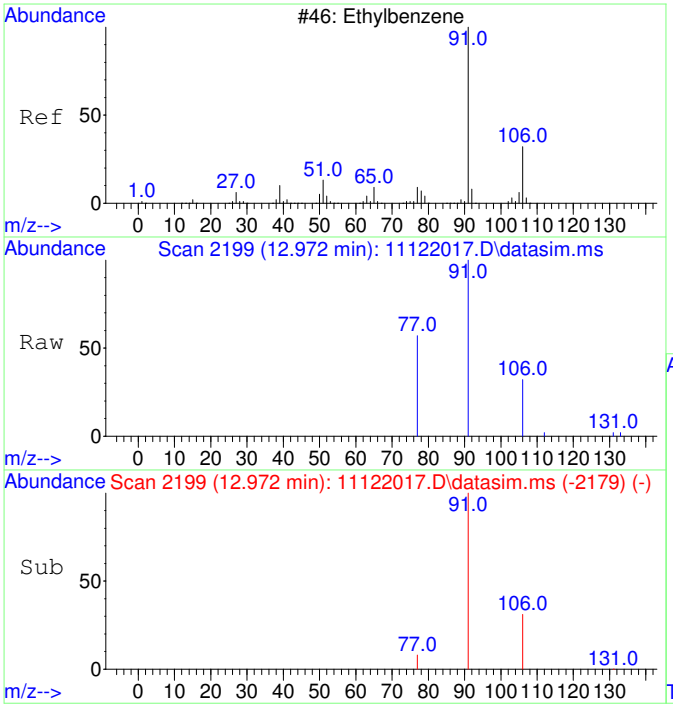


#13
Toluene
Concen: 190.71 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion: 91 Resp: 21103

Ion	Ratio	Lower	Upper
91	100		
92	59.3	29.9	89.9

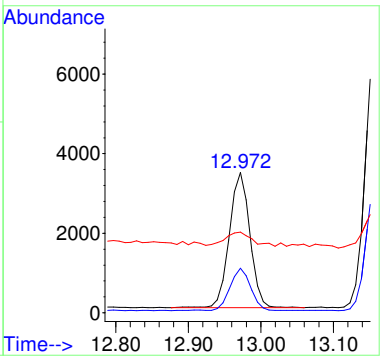


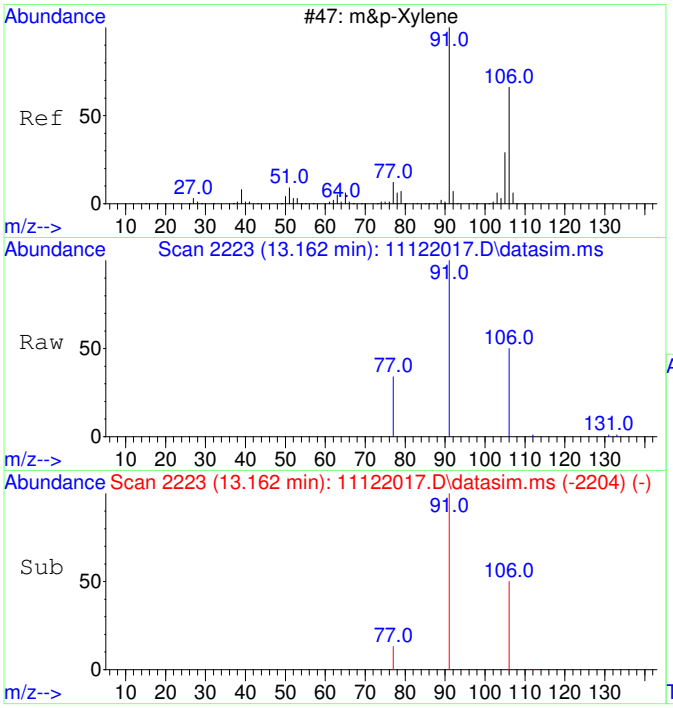


#18
Ethylbenzene
Concen: 49.42 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion: 91 Resp: 6656

Ion	Ratio	Lower	Upper
91	100		
106	30.7	3.0	63.0
77	13.3	0.0	38.2

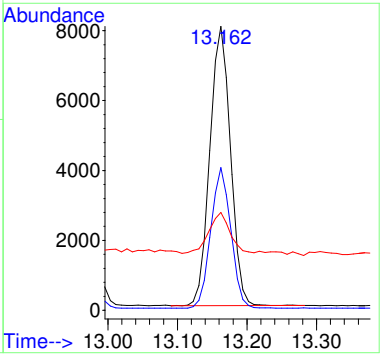


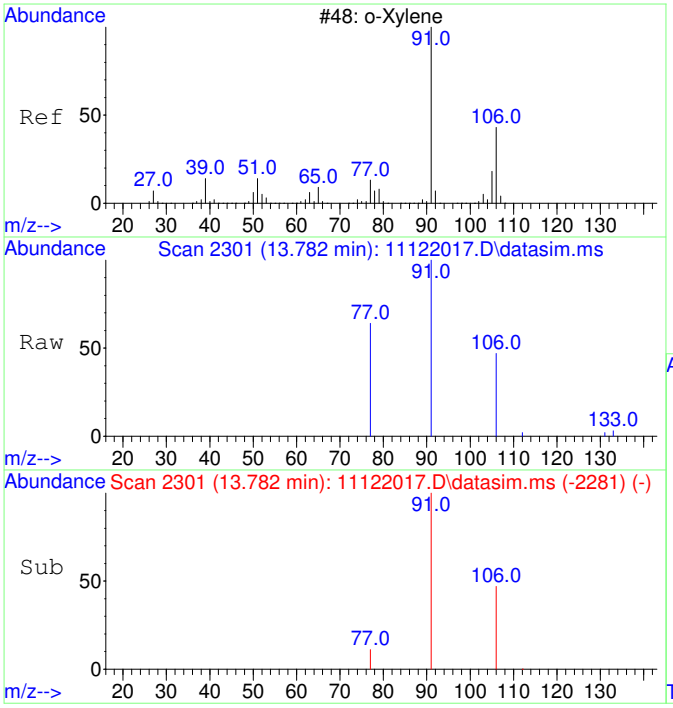


#19
m&p-Xylene
Concen: 156.51 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion: 91 Resp: 16476

Ion	Ratio	Lower	Upper
91	100		
106	49.0	22.2	82.2
77	15.5	0.0	42.4

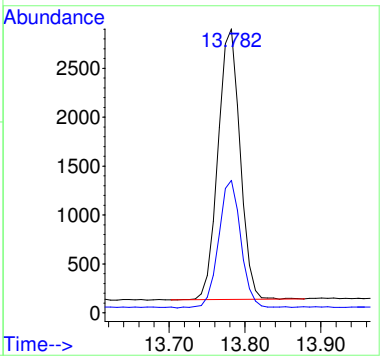


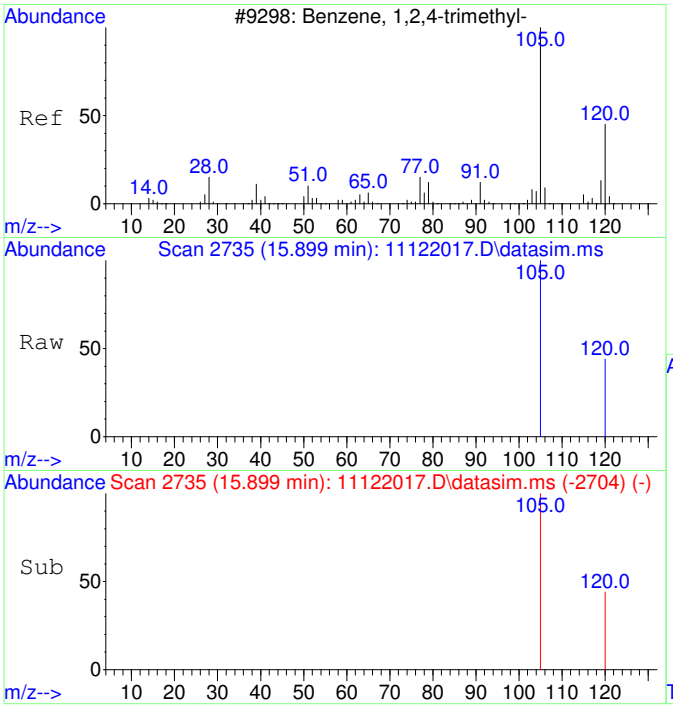


#20
o-Xylene
Concen: 49.65 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion: 91 Resp: 5584

Ion	Ratio	Lower	Upper
91	100		
106	47.4	19.2	79.2

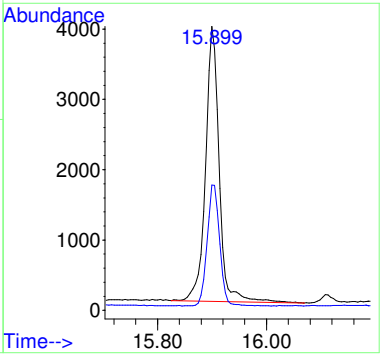


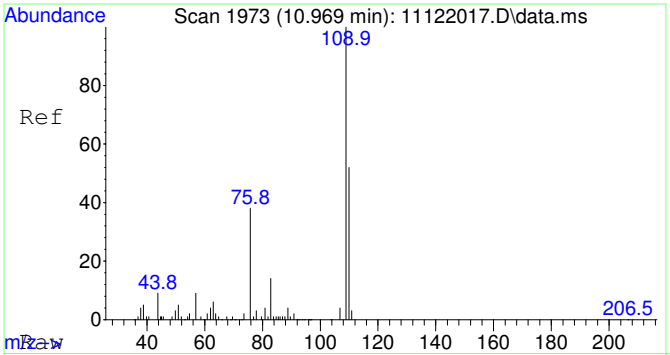


#23
1,2,4-Trimethylbenzene
Concen: 54.49 ug/L
RT: 15.899 min Scan# 2735
Delta R.T. 0.004 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion:105 Resp: 6775

Ion	Ratio	Lower	Upper
105	100		
120	40.1	17.2	77.2

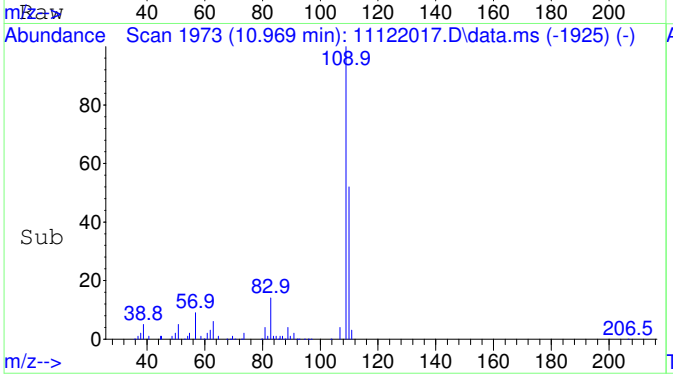


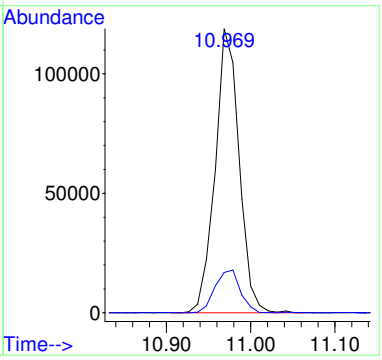


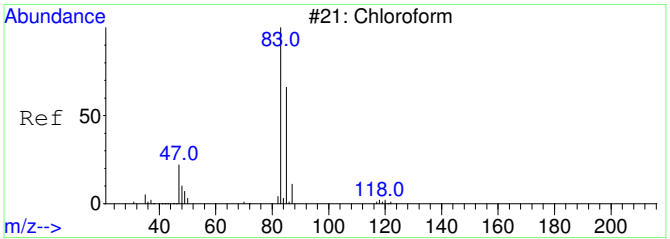
#25
2-Fluorotoluene SCAN
Concen: 5445.11 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion:109 Resp: 235342

Ion	Ratio	Lower	Upper
109	100		
83	15.9	0.0	43.8



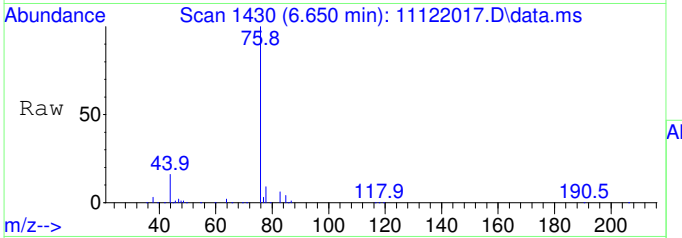


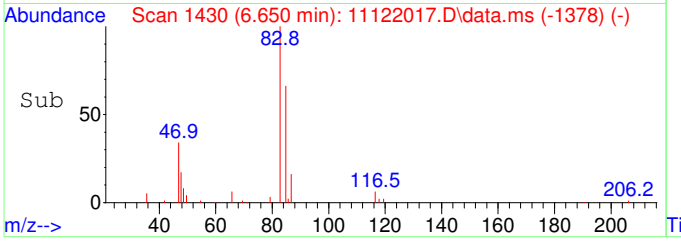


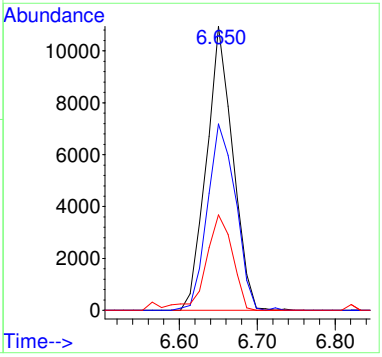
#30
Chloroform SCAN
Concen: 1691.73 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

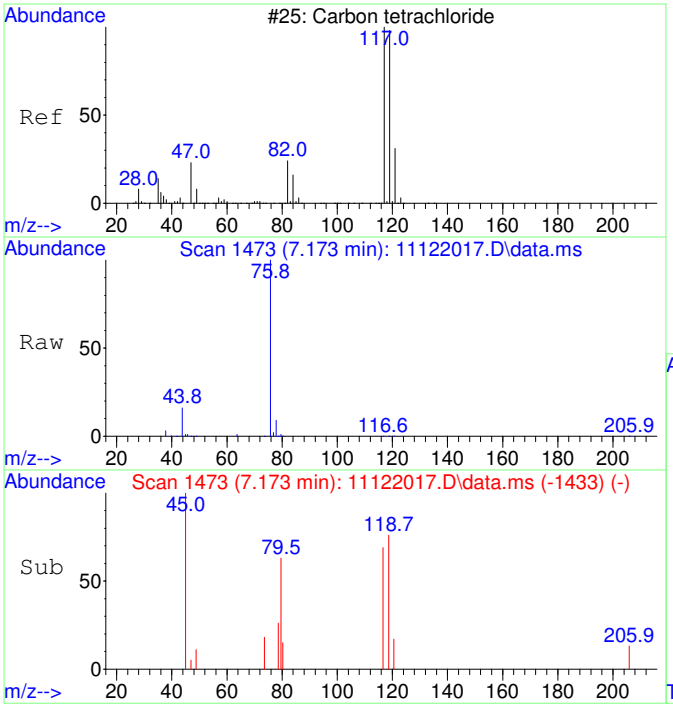
Tgt Ion: 83 Resp: 25842

Ion	Ratio	Lower	Upper
83	100		
85	69.9	34.6	94.6
47	32.2	0.0	53.4





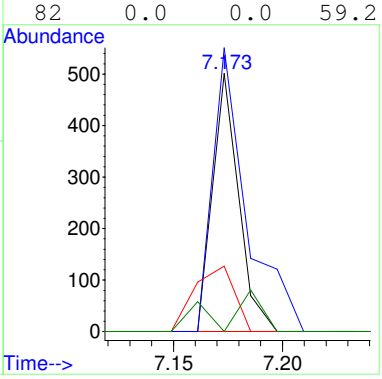


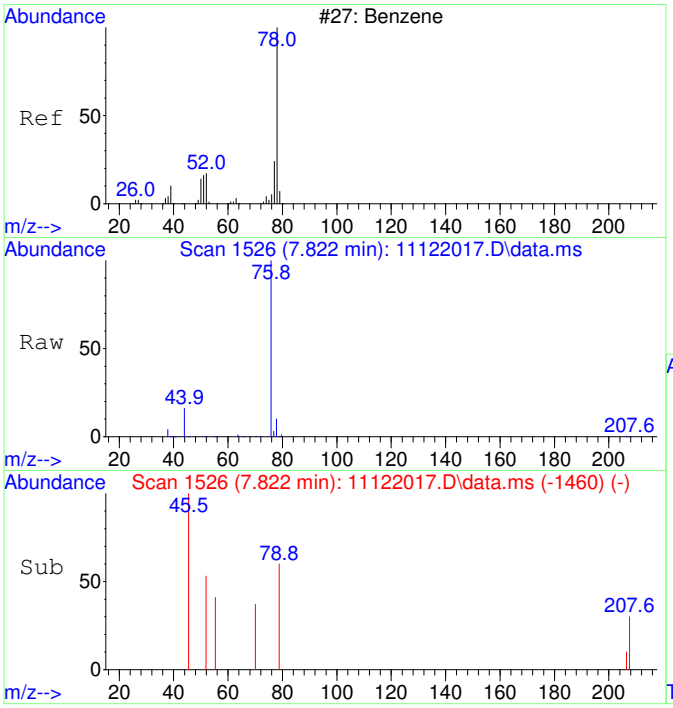


#32
Carbon tetrachloride SCAN
Concen: 28.72 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.012 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion:117 Resp: 417

Ion	Ratio	Lower	Upper
117	100		
119	142.4	75.5	135.5#
121	39.1	0.0	58.8
82	0.0	0.0	59.2

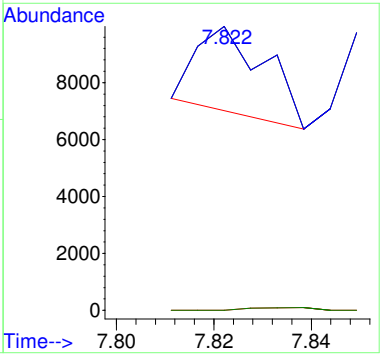


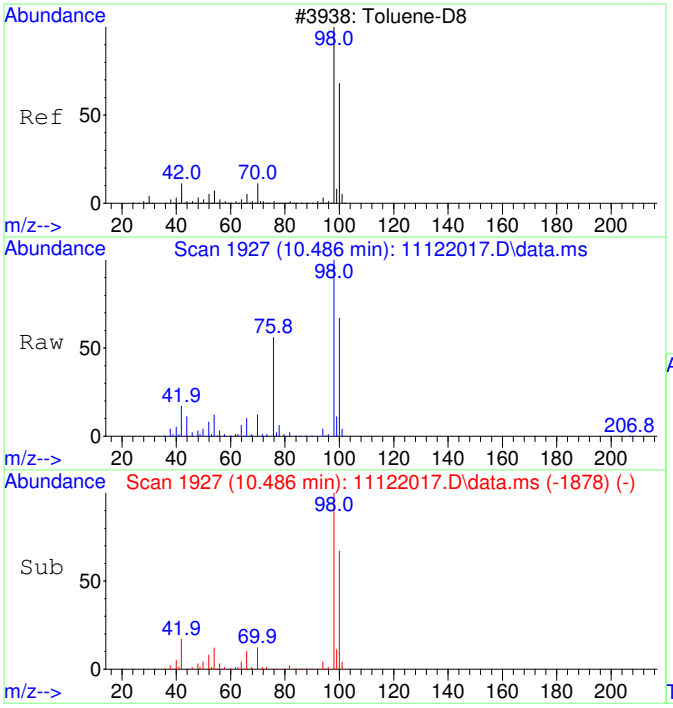


#33
Benzene SCAN
Concen: 72.38 ug/L
RT: 7.822 min Scan# 1526
Delta R.T. 0.308 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion: 78 Resp: 2774

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.2	0.0	47.9
51	3.2	0.0	44.1

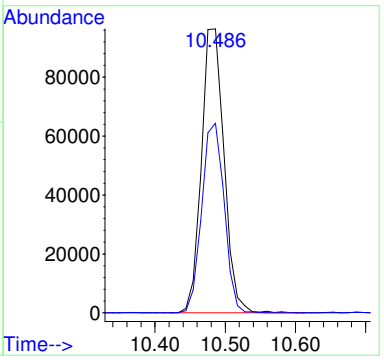


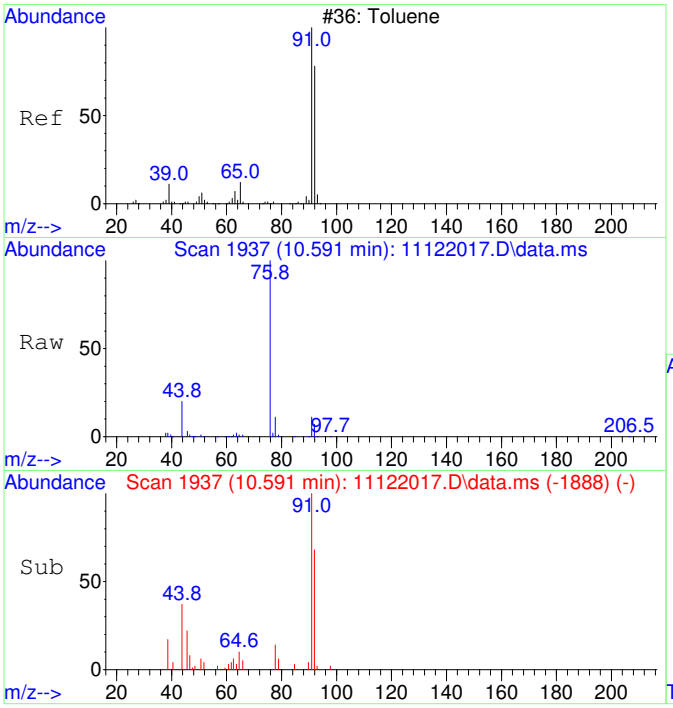


#36
Toluene-d8 SCAN
Concen: 5113.89 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion: 98 Resp: 216157

Ion	Ratio	Lower	Upper
98	100		
100	65.9	40.0	100.0

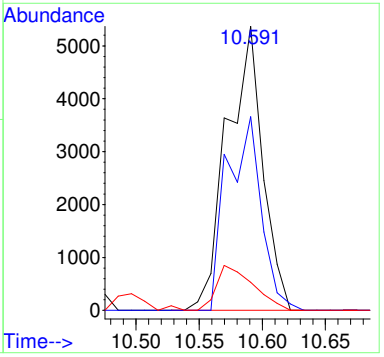


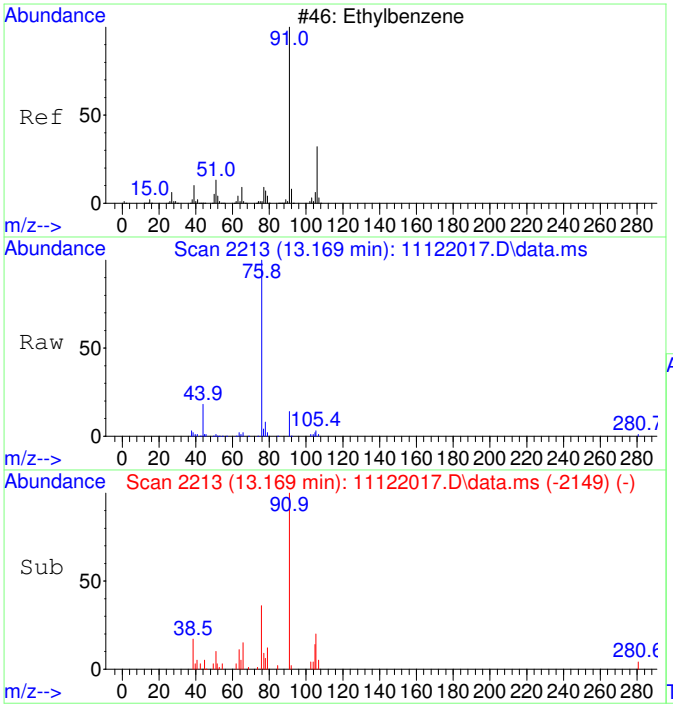


#37
Toluene SCAN
Concen: 194.58 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.010 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion: 91 Resp: 10533

Ion	Ratio	Lower	Upper
91	100		
92	65.6	28.3	88.3
65	0.0	0.0	41.0

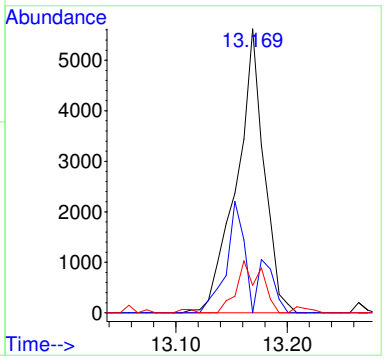


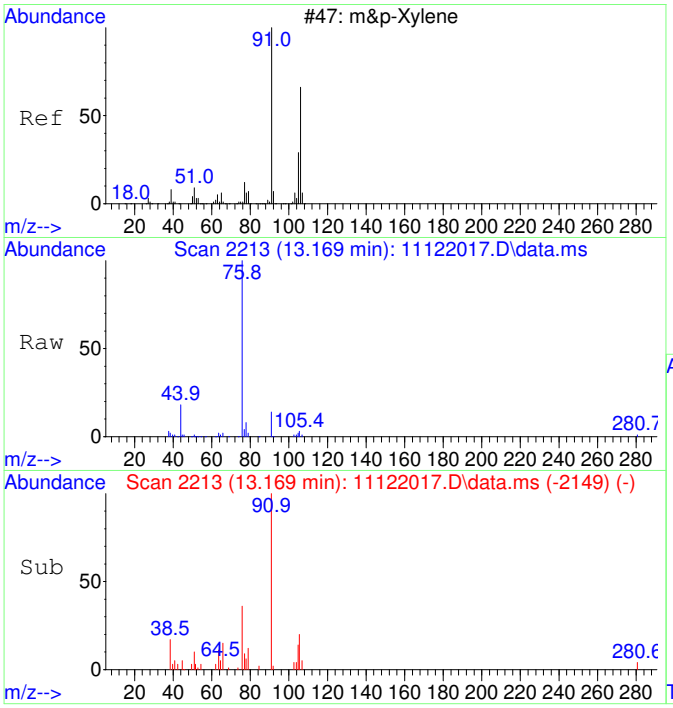


#42
Ethylbenzene SCAN
Concen: 97.87 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion: 91 Resp: 9652

Ion	Ratio	Lower	Upper
91	100		
106	25.3	23.1	83.1
51	16.3	0.0	40.1

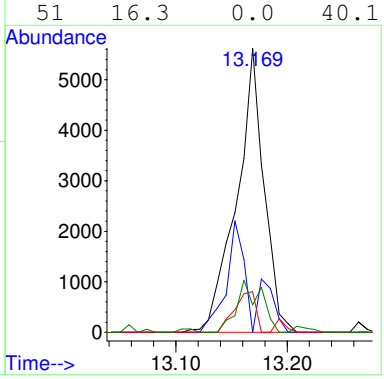


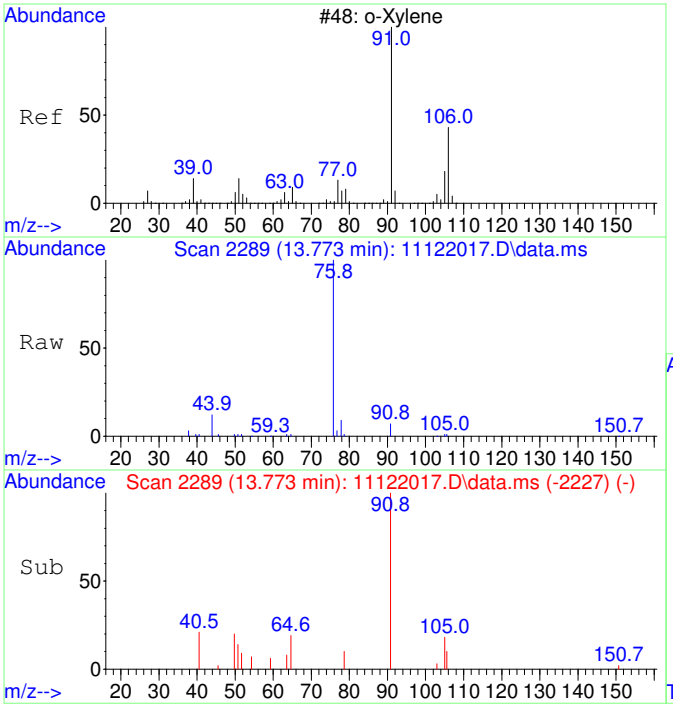


#43
m&p-Xylene SCAN
Concen: 97.87 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion: 91 Resp: 9652

Ion	Ratio	Lower	Upper
91	100		
106	25.3	23.1	83.1
105	11.2	0.0	54.7
51	16.3	0.0	40.1

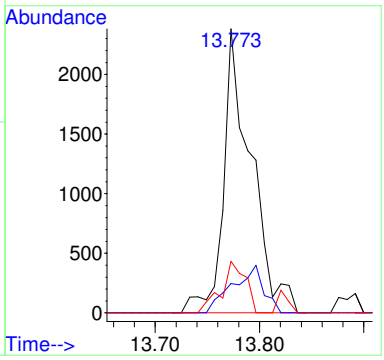


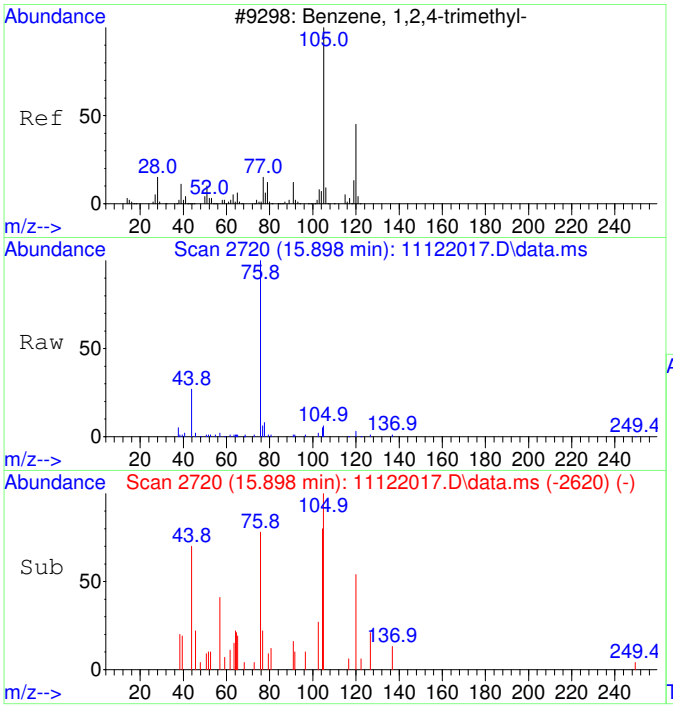


#44
o-Xylene SCAN
Concen: 83.20 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.008 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion: 91 Resp: 4392

Ion	Ratio	Lower	Upper
91	100		
106	0.0	18.0	78.0#
105	15.7	0.0	56.6

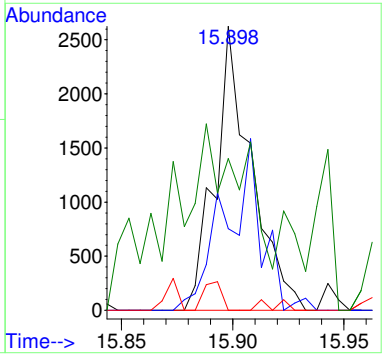




#47
1,2,4-Trimethylbenzene SCAN
Concen: 52.33 ug/L
RT: 15.898 min Scan# 2720
Delta R.T. -0.001 min
Lab File: 11122017.D
Acq: 12 Nov 2020 14:47

Tgt Ion:105 Resp: 2979

Ion	Ratio	Lower	Upper
105	100		
120	0.0	16.9	76.9#
119	5.0	0.0	41.9
77	75.9	0.0	42.3#



2011015-10

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122018.D
Acq On : 12 Nov 2020 15:10
InstName : AG5975C
Operator : TD
Sample : 2011015-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 13 06:13:12 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

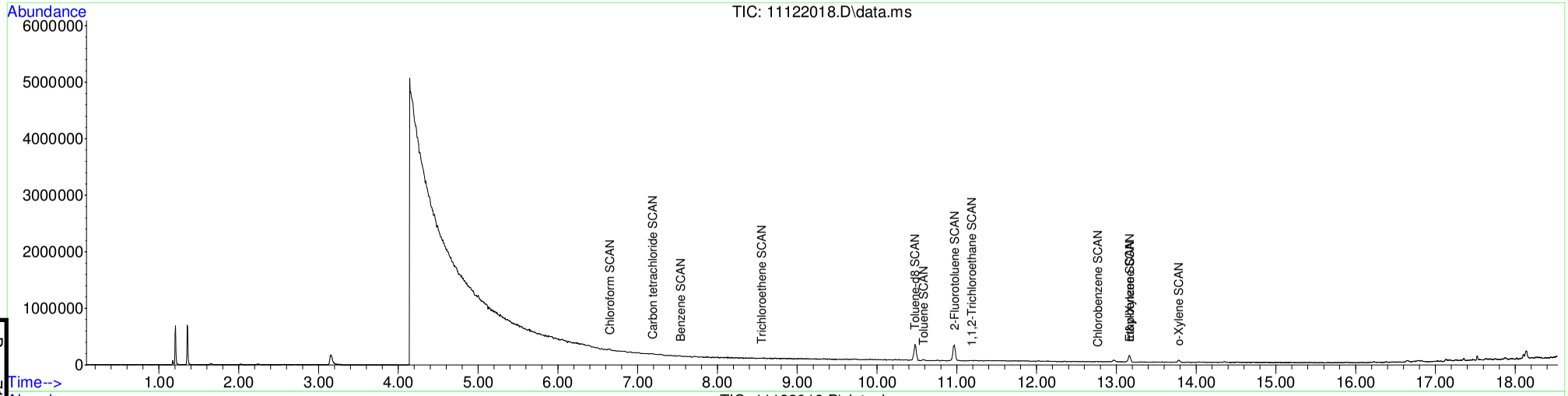
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	438832	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	385533	4487.84	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 89.76%			
Target Compounds						Qvalue
6] Chloroform	6.652	83	12656	464.80	ug/L	99
8] Carbon tetrachloride	7.175	117	1985	71.32	ug/L	100
9] Benzene	7.503	78	14276	191.47	ug/L	66
11] Trichloroethene	8.569	130	1844	82.14	ug/L	91
13] Toluene	10.571	91	27518	251.25	ug/L	99
15] Tetrachloroethene	11.432	166	949	29.94	ug/L	100
16] Chlorobenzene	12.765	112	1708	21.78	ug/L #	57
18] Ethylbenzene	12.972	91	53016	397.68	ug/L	97
19] m&p-Xylene	13.162	91	155498	1492.43	ug/L	96
20] o-Xylene	13.774	91	44636	400.99	ug/L	95
23] 1,2,4-Trimethylbenzene	15.899	105	7330	59.56	ug/L	90
25) 2-Fluorotoluene SCAN	10.969	109	230418	5386.36	ug/L	96
30) Chloroform SCAN	6.650	83	8061	533.17	ug/L	95
32) Carbon tetrachloride SCAN	7.185	117	847	58.94	ug/L #	71
33) Benzene SCAN	7.538	78	8061	212.49	ug/L #	91
35) Trichloroethene SCAN	8.557	130	867	83.17	ug/L #	75
36) Toluene-d8 SCAN	10.475	98	209844	5015.92	ug/L	95
37) Toluene SCAN	10.580	91	15929	297.31	ug/L	91
38) 1,1,2-Trichloroethane ...	11.189	97	590	49.06	ug/L #	26
40) Chlorobenzene SCAN	12.764	112	1410	38.51	ug/L #	38
42) Ethylbenzene SCAN	13.169	91	79796	817.52	ug/L	93
43) m&p-Xylene SCAN	13.169	91	79796	817.52	ug/L	94
44) o-Xylene SCAN	13.781	91	24829	475.22	ug/L	93

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122018.D
Acq On : 12 Nov 2020 15:10
InstName : AG5975C
Operator : TD
Sample : 2011015-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 13 06:13:12 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



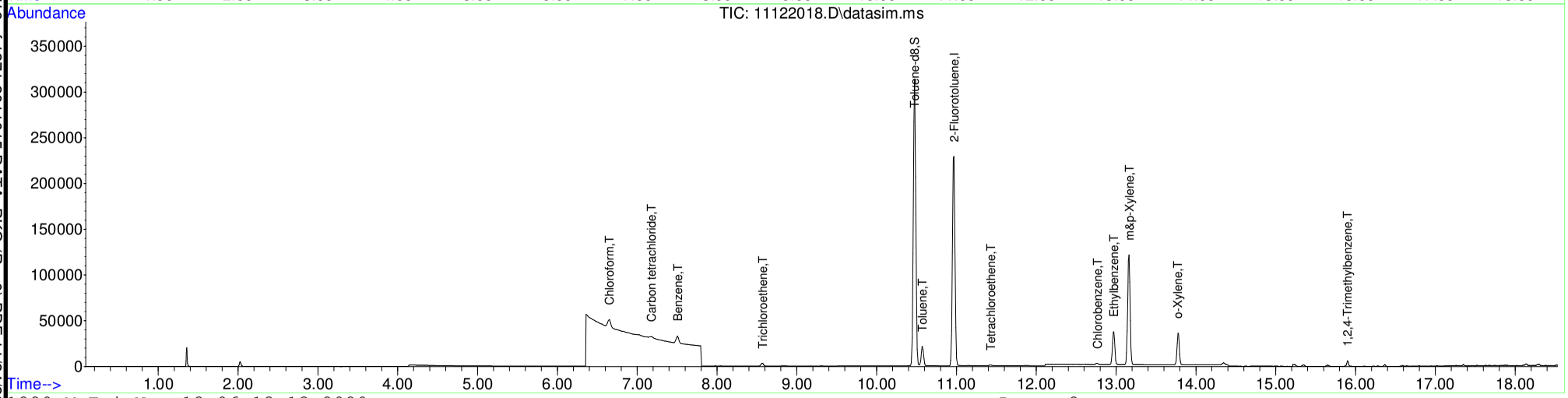
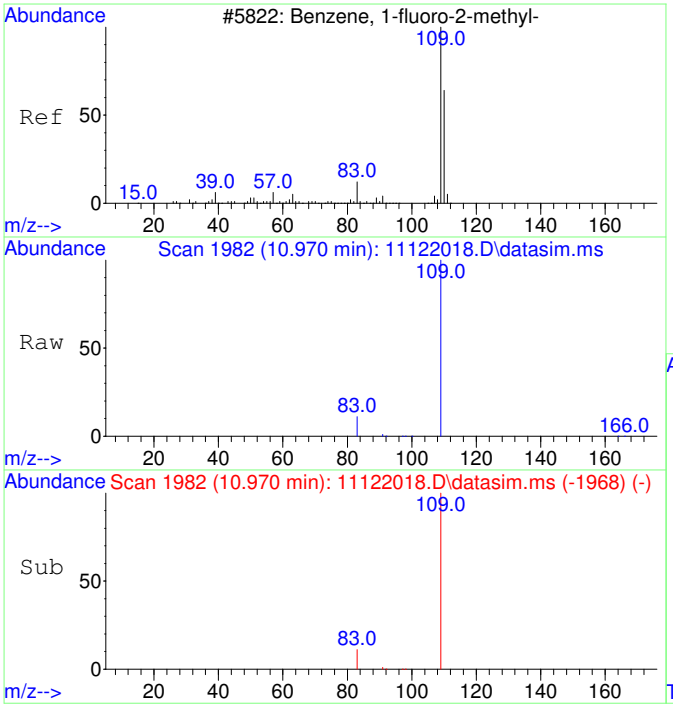


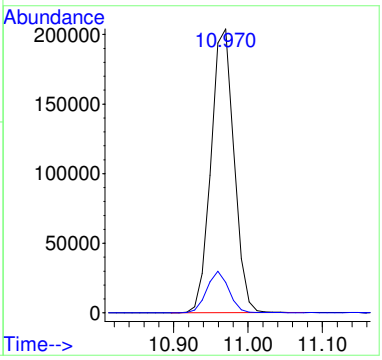
Table of Contents

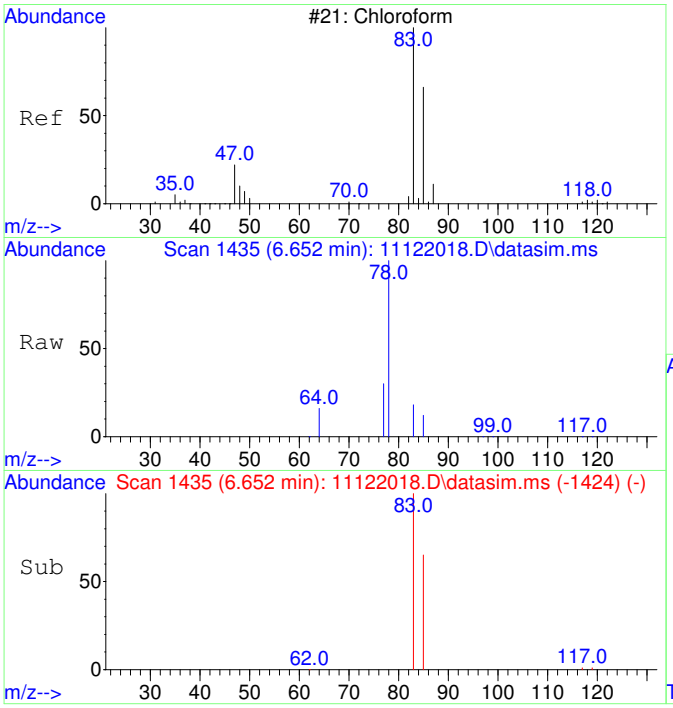


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion:109 Resp: 438832

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

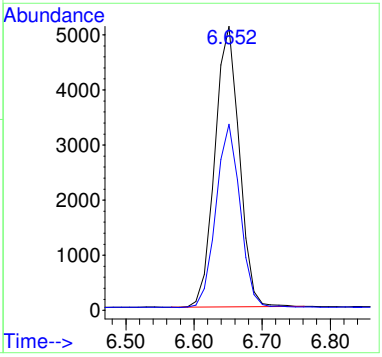


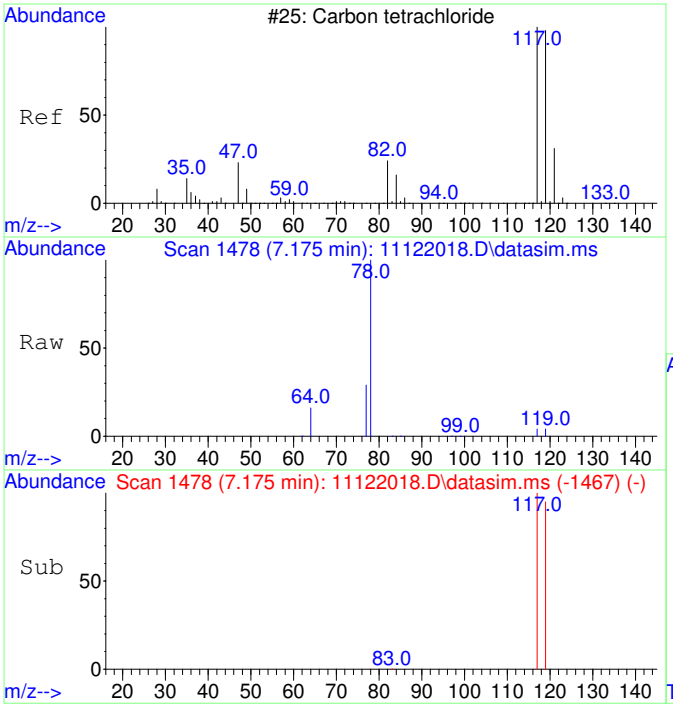


#6
Chloroform
Concen: 464.80 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 83 Resp: 12656

Ion	Ratio	Lower	Upper
83	100		
85	64.3	35.1	95.1

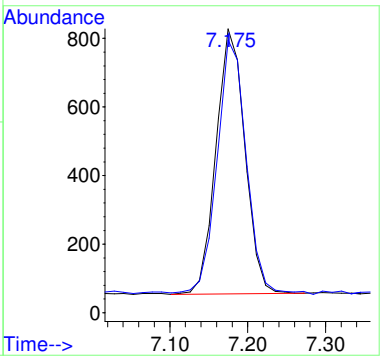


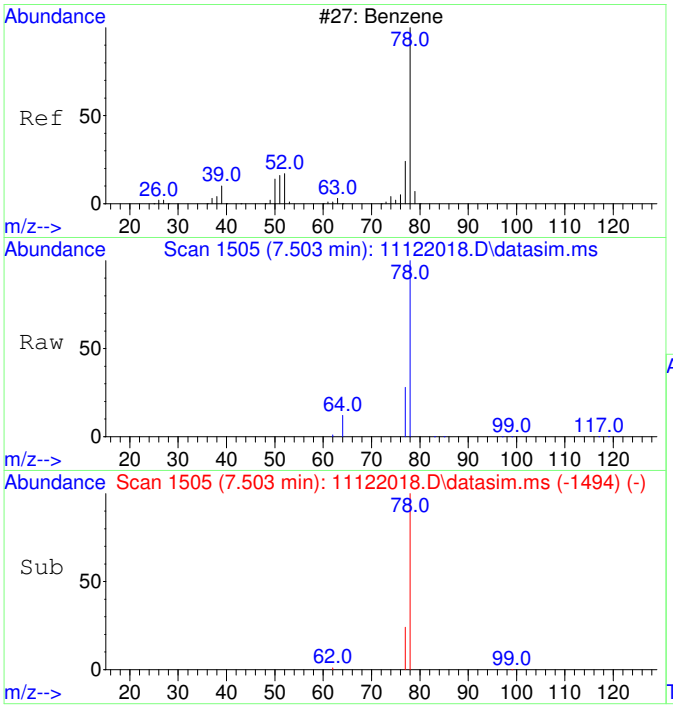


#8
Carbon tetrachloride
Concen: 71.32 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion:117 Resp: 1985

Ion	Ratio	Lower	Upper
117	100		
119	96.3	66.4	126.4

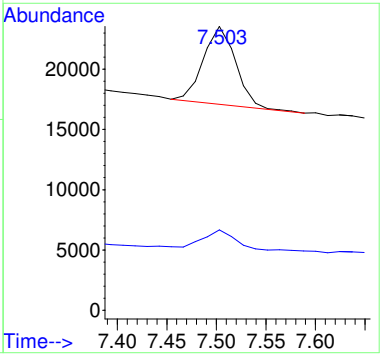


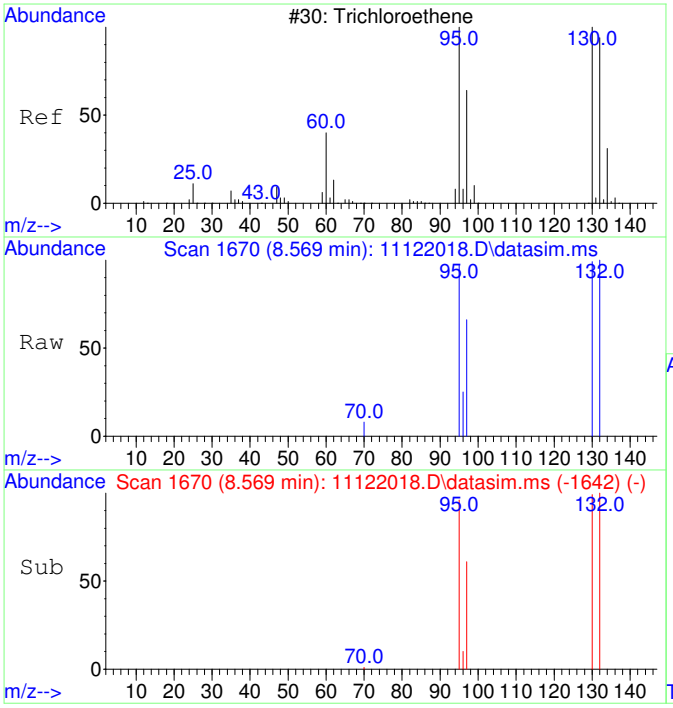


#9
Benzene
Concen: 191.47 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 78 Resp: 14276

Ion	Ratio	Lower	Upper
78	100		
77	39.9	0.0	53.2

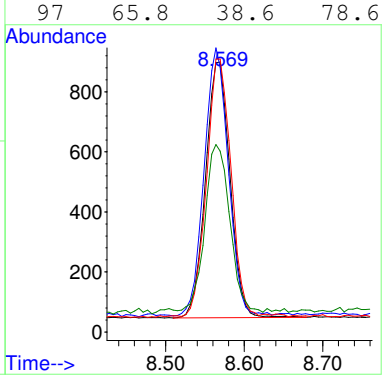


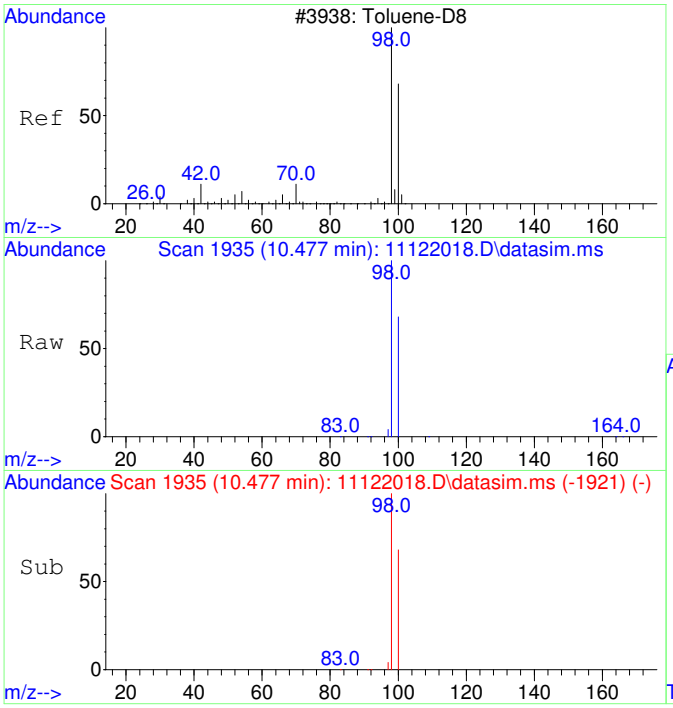


#11
Trichloroethene
Concen: 82.14 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion:130 Resp: 1844

Ion	Ratio	Lower	Upper
130	100		
95	102.4	60.7	120.7
132	101.3	76.0	116.0
97	65.8	38.6	78.6

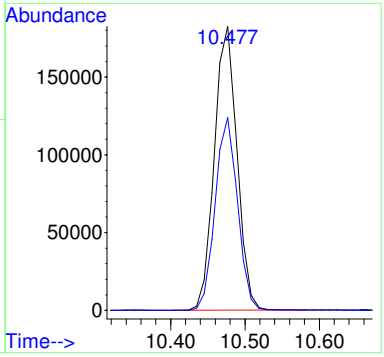


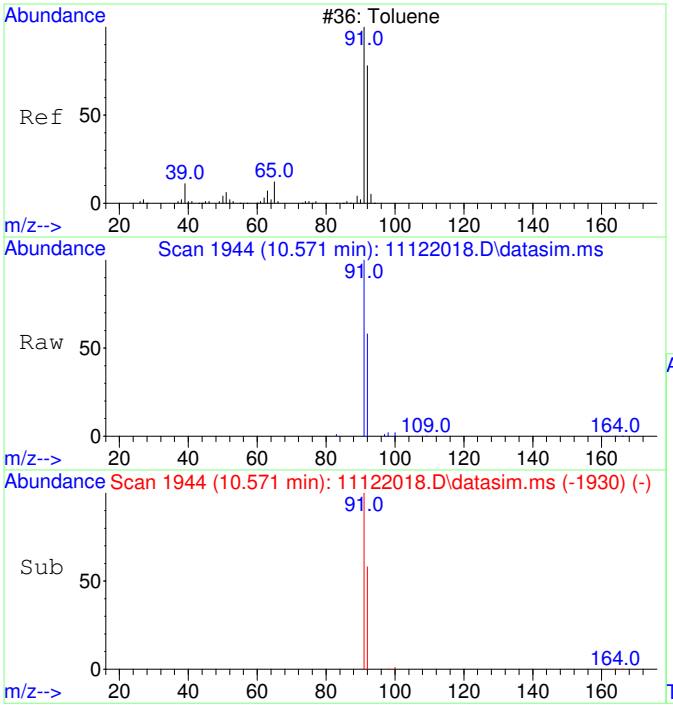


#12
Toluene-d8
Concen: 4487.84 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 98 Resp: 385533

Ion	Ratio	Lower	Upper
98	100		
100	66.9	37.1	97.1

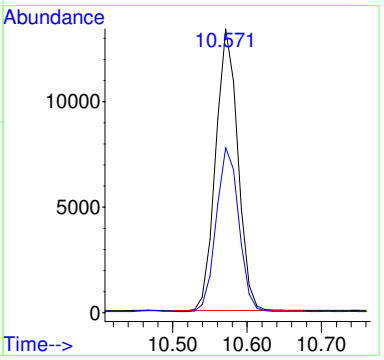


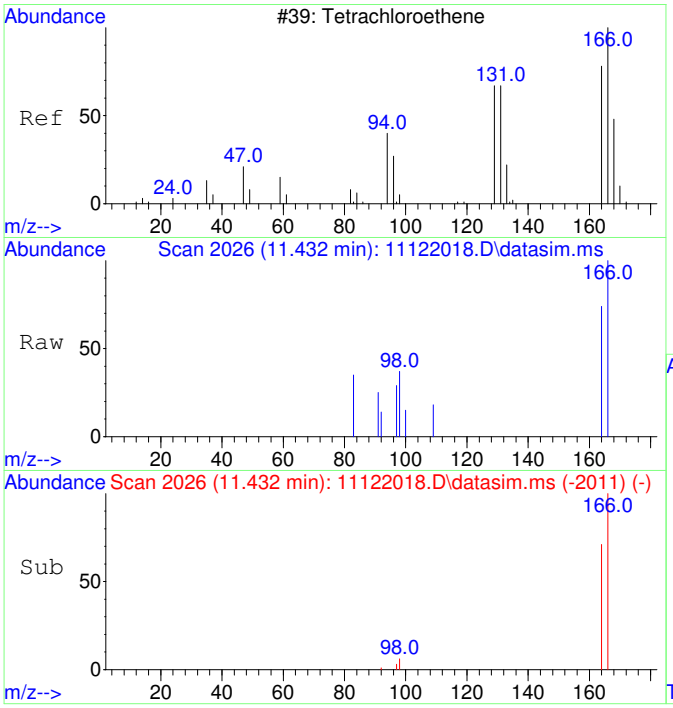


#13
Toluene
Concen: 251.25 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 91 Resp: 27518

Ion	Ratio	Lower	Upper
91	100		
92	59.0	29.9	89.9

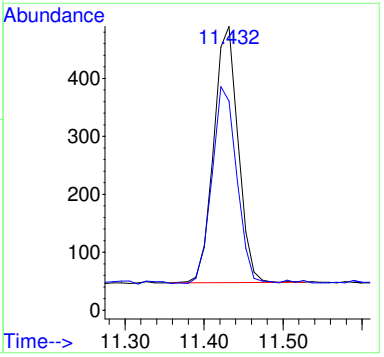


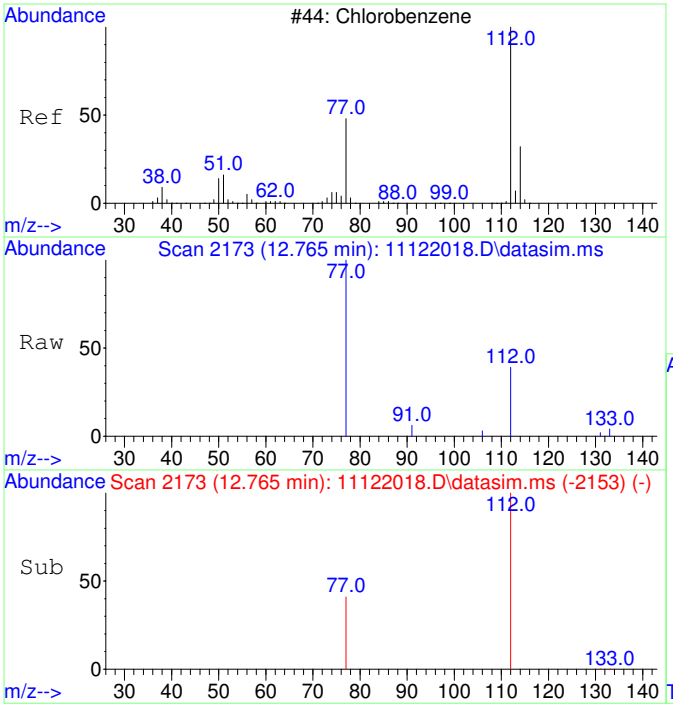


#15
Tetrachloroethene
Concen: 29.94 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion:166 Resp: 949

Ion	Ratio	Lower	Upper
166	100		
164	77.6	47.8	107.8

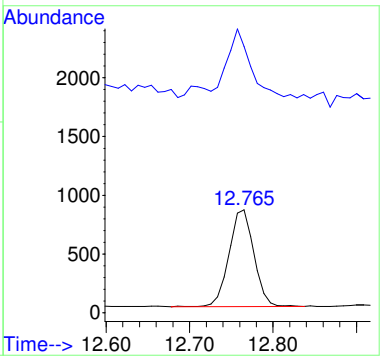


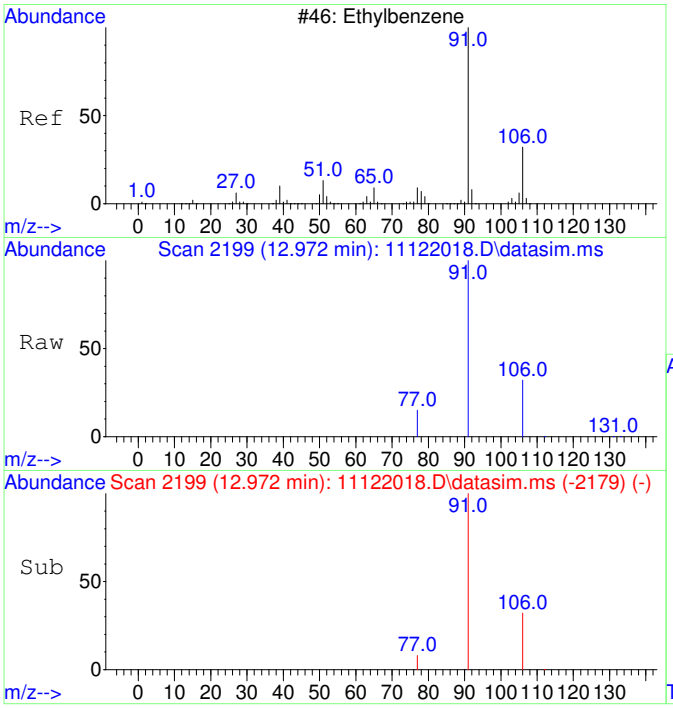


#16
Chlorobenzene
Concen: 21.78 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion:112 Resp: 1708

Ion	Ratio	Lower	Upper
112	100		
77	84.1	23.6	83.6#

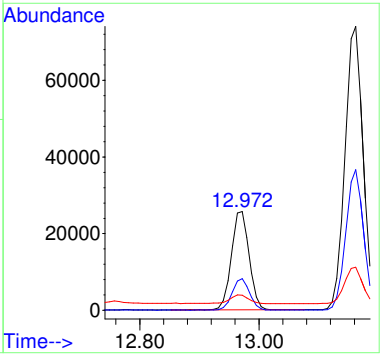


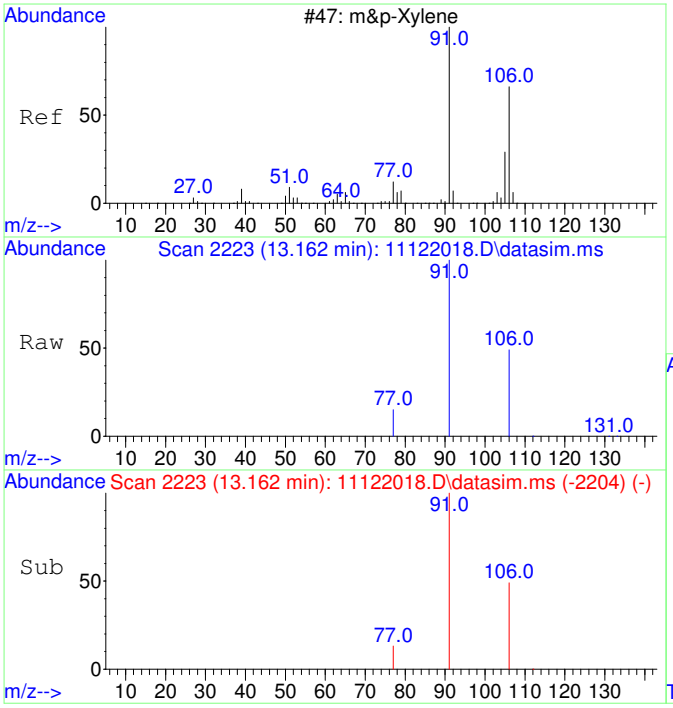


#18
Ethylbenzene
Concen: 397.68 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 91 Resp: 53016

Ion	Ratio	Lower	Upper
91	100		
106	31.1	3.0	63.0
77	9.5	0.0	38.2

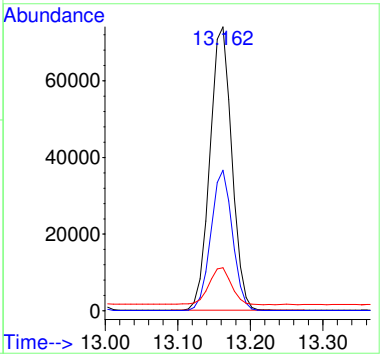


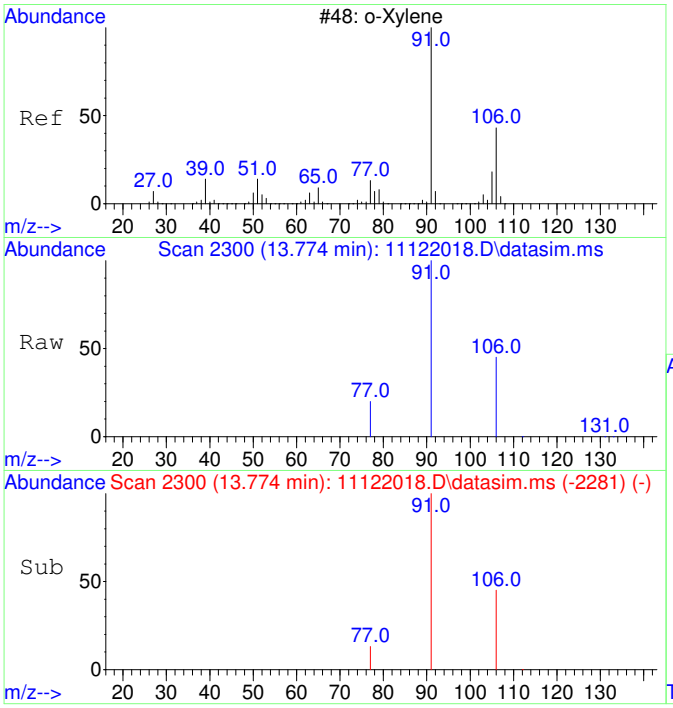


#19
m&p-Xylene
Concen: 1492.43 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 91 Resp: 155498

Ion	Ratio	Lower	Upper
91	100		
106	48.9	22.2	82.2
77	13.4	0.0	42.4

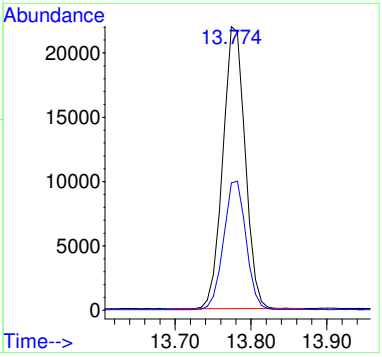


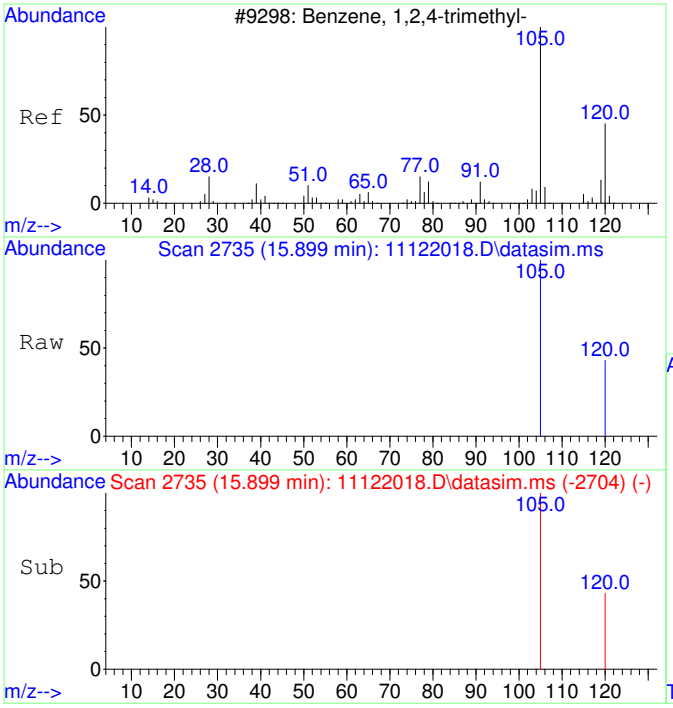


#20
o-Xylene
Concen: 400.99 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. -0.000 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 91 Resp: 44636

Ion	Ratio	Lower	Upper
91	100		
106	46.0	19.2	79.2

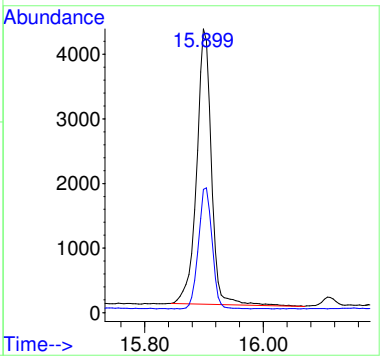


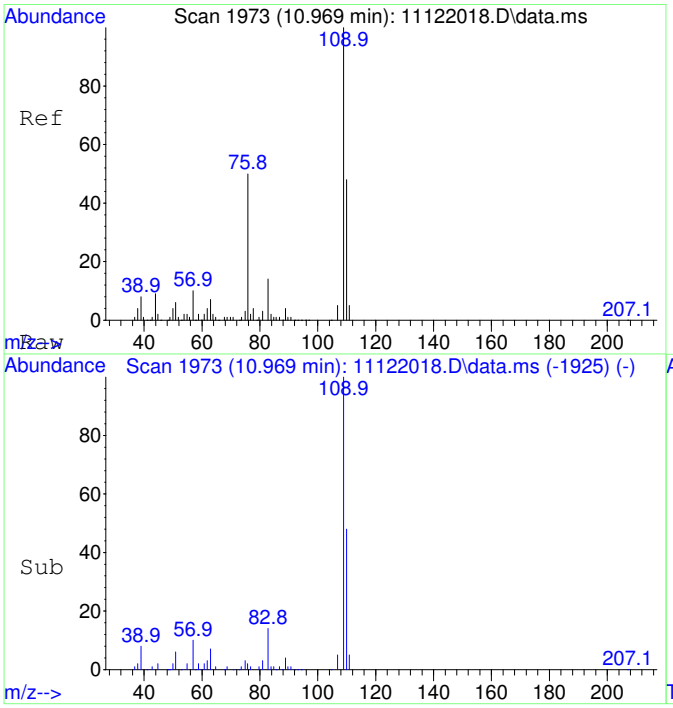


#23
1,2,4-Trimethylbenzene
Concen: 59.56 ug/L
RT: 15.899 min Scan# 2735
Delta R.T. 0.003 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion:105 Resp: 7330

Ion	Ratio	Lower	Upper
105	100		
120	40.7	17.2	77.2

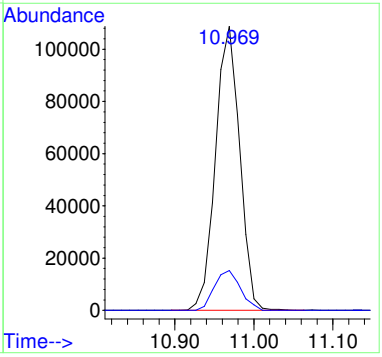


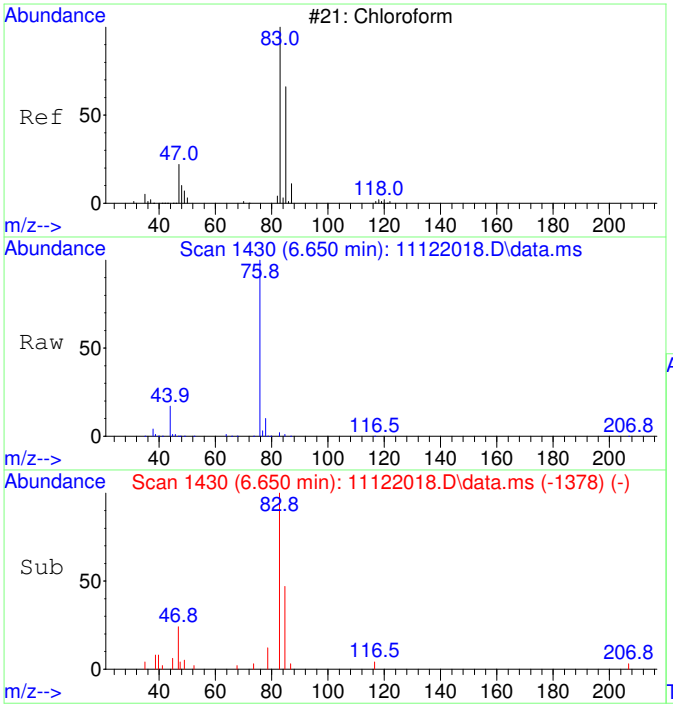


#25
2-Fluorotoluene SCAN
Concen: 5386.36 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion:109 Resp: 230418

Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	43.8

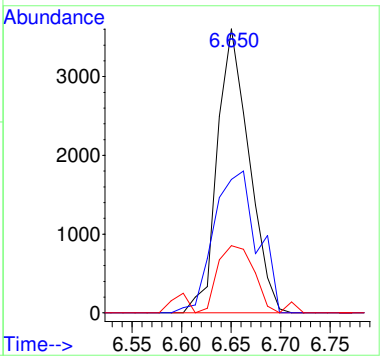


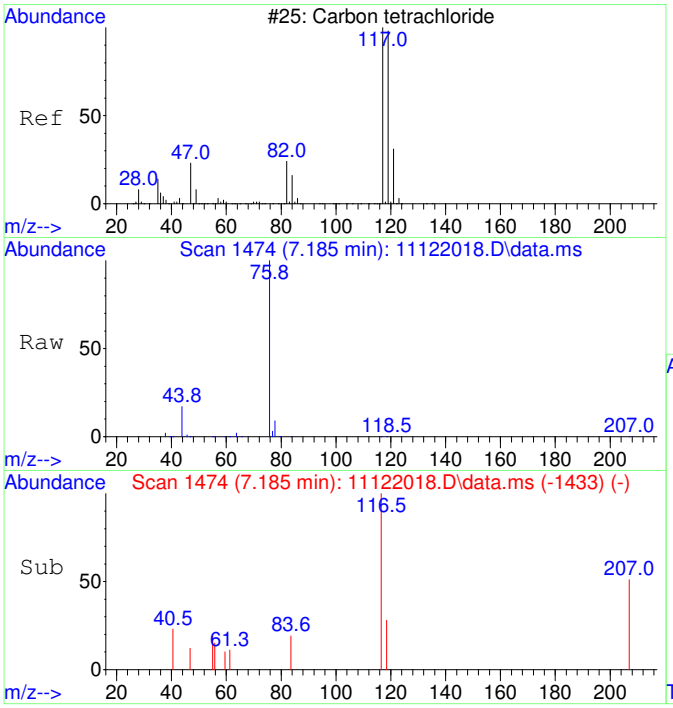


#30
Chloroform SCAN
Concen: 533.17 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 83 Resp: 8061

Ion	Ratio	Lower	Upper
83	100		
85	68.4	34.6	94.6
47	27.0	0.0	53.4

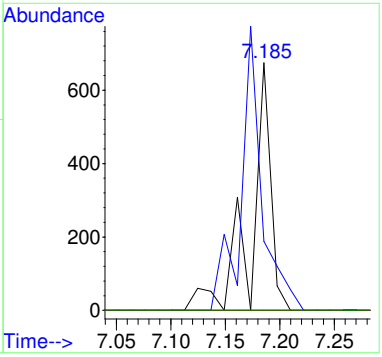


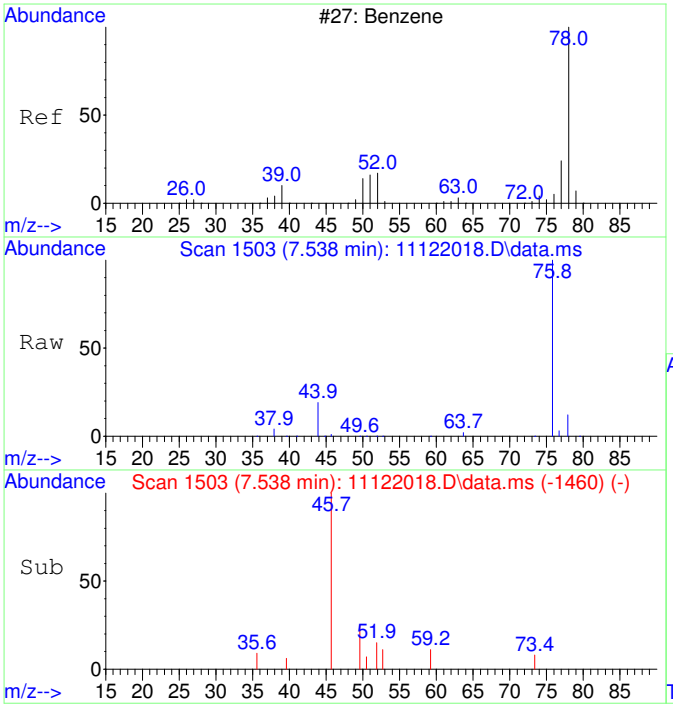


#32
Carbon tetrachloride SCAN
Concen: 58.94 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. -0.000 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion:117 Resp: 847

Ion	Ratio	Lower	Upper
117	100		
119	121.8	75.5	135.5
121	0.0	0.0	58.8
82	0.0	0.0	59.2

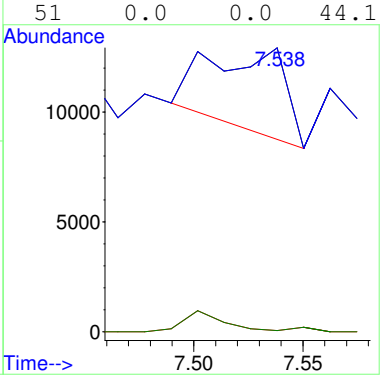


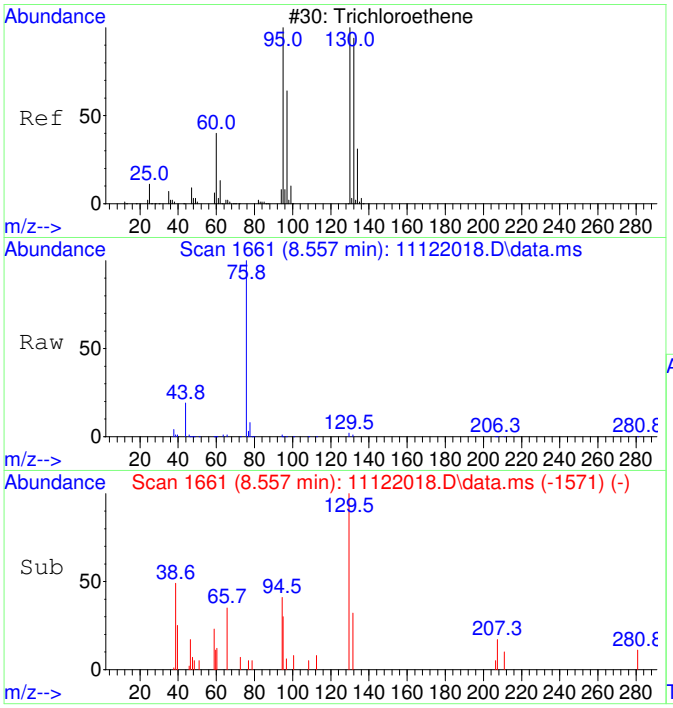


#33
Benzene SCAN
Concen: 212.49 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. 0.024 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 78 Resp: 8061

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

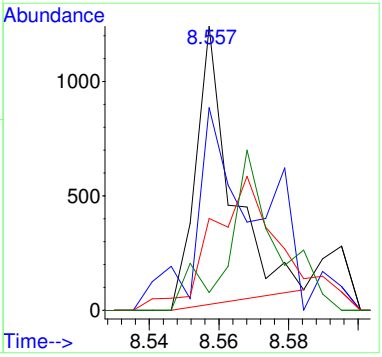


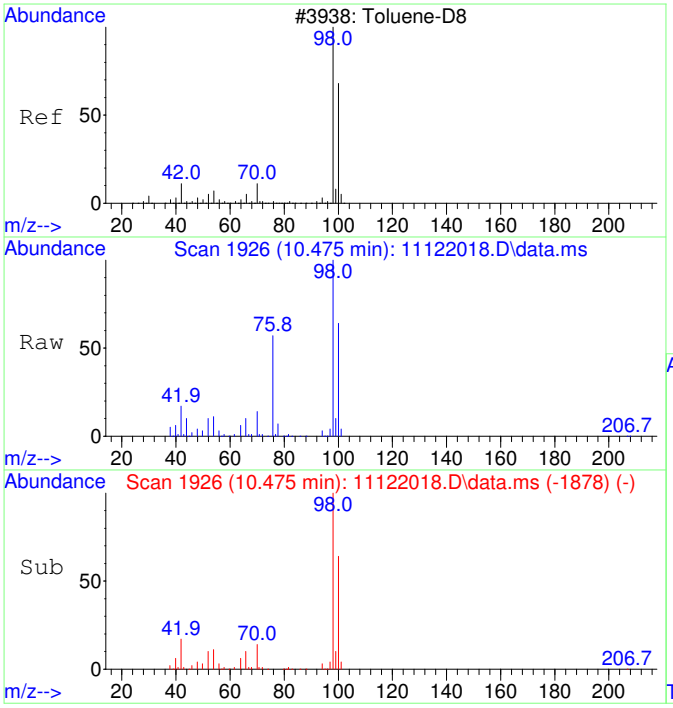


#35
Trichloroethene SCAN
Concen: 83.17 ug/L
RT: 8.557 min Scan# 1661
Delta R.T. -0.011 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion:130 Resp: 867

Ion	Ratio	Lower	Upper
130	100		
95	131.3	60.5	120.5#
132	94.8	59.6	119.6
97	77.9	28.2	88.2

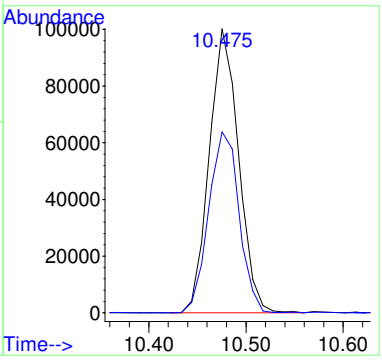


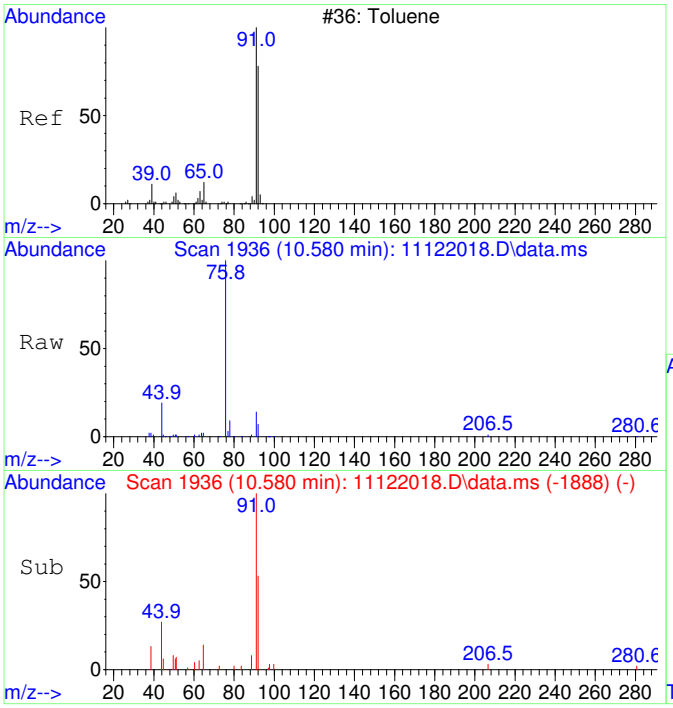


#36
Toluene-d8 SCAN
Concen: 5015.92 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 98 Resp: 209844

Ion	Ratio	Lower	Upper
98	100		
100	66.1	40.0	100.0

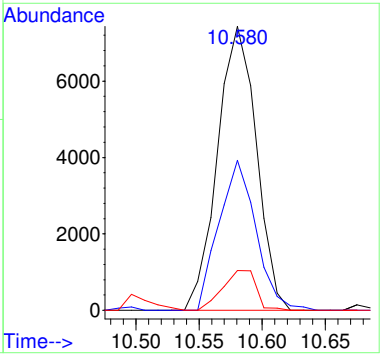


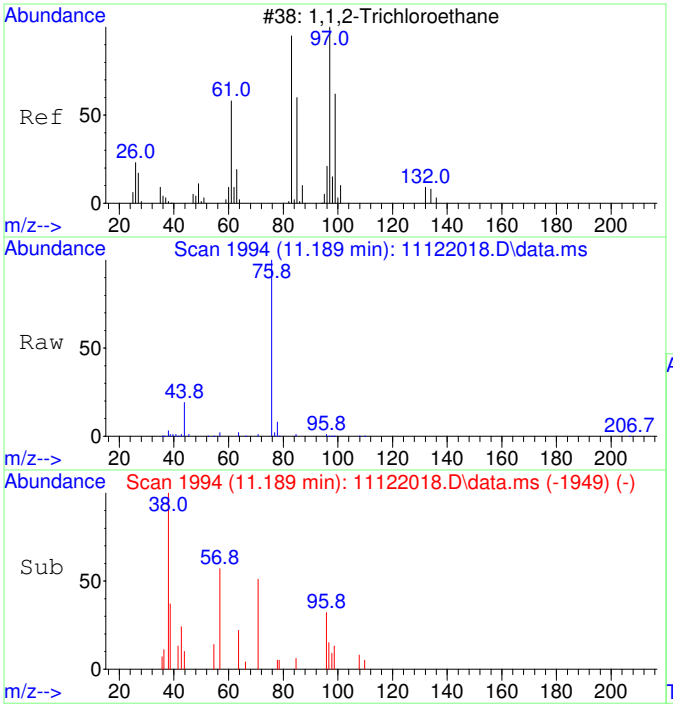


#37
Toluene SCAN
Concen: 297.31 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 91 Resp: 15929

Ion	Ratio	Lower	Upper
91	100		
92	50.5	28.3	88.3
65	12.2	0.0	41.0

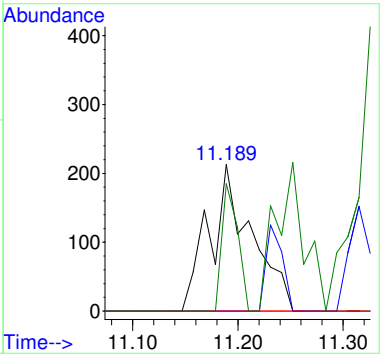


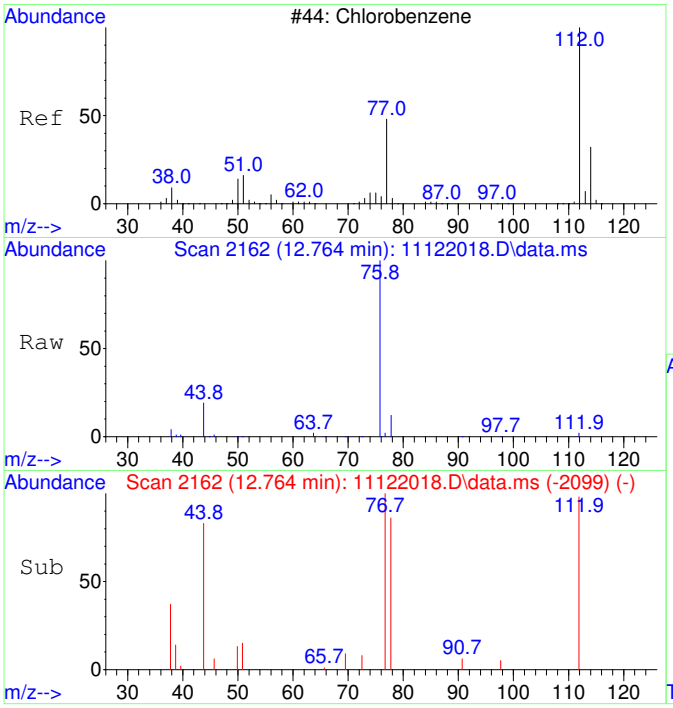


#38
1,1,2-Trichloroethane SCAN
Concen: 49.06 ug/L
RT: 11.189 min Scan# 1994
Delta R.T. -0.032 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 97 Resp: 590

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	32.7	36.7	96.7#

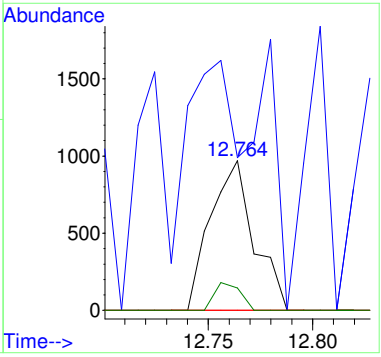


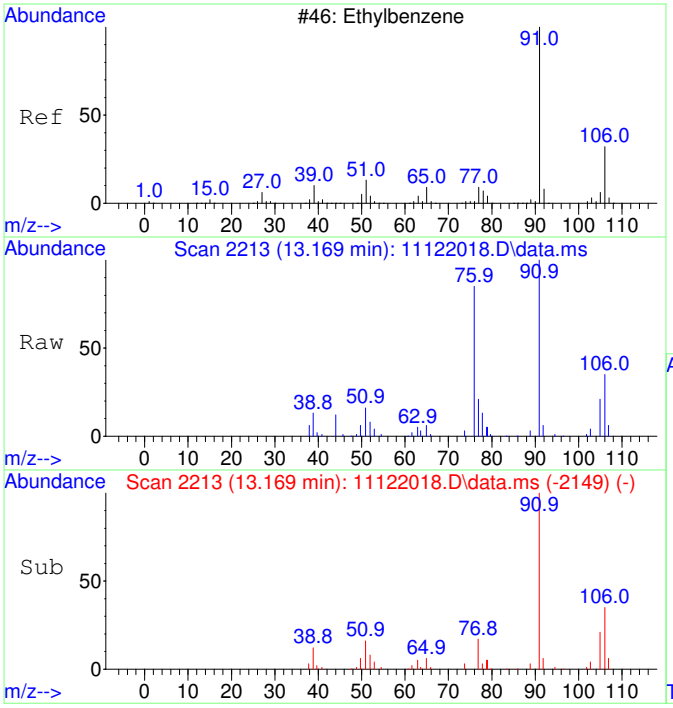


#40
Chlorobenzene SCAN
Concen: 38.51 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion:112 Resp: 1410

Ion	Ratio	Lower	Upper
112	100		
77	0.0	28.2	88.2#
114	0.0	2.3	62.3#
51	11.0	0.0	50.1

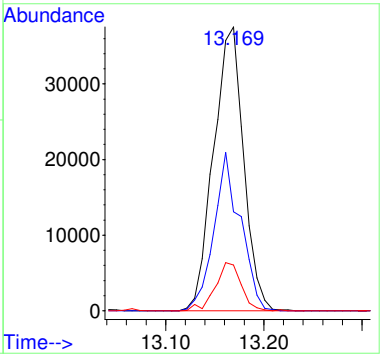


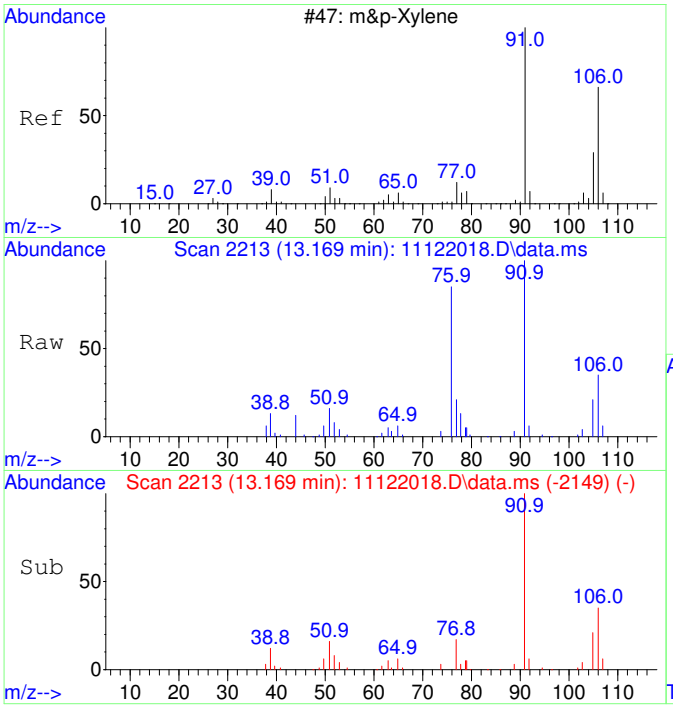


#42
Ethylbenzene SCAN
Concen: 817.52 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 91 Resp: 79796

Ion	Ratio	Lower	Upper
91	100		
106	49.0	23.1	83.1
51	14.6	0.0	40.1

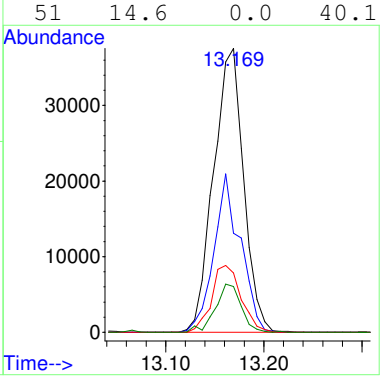


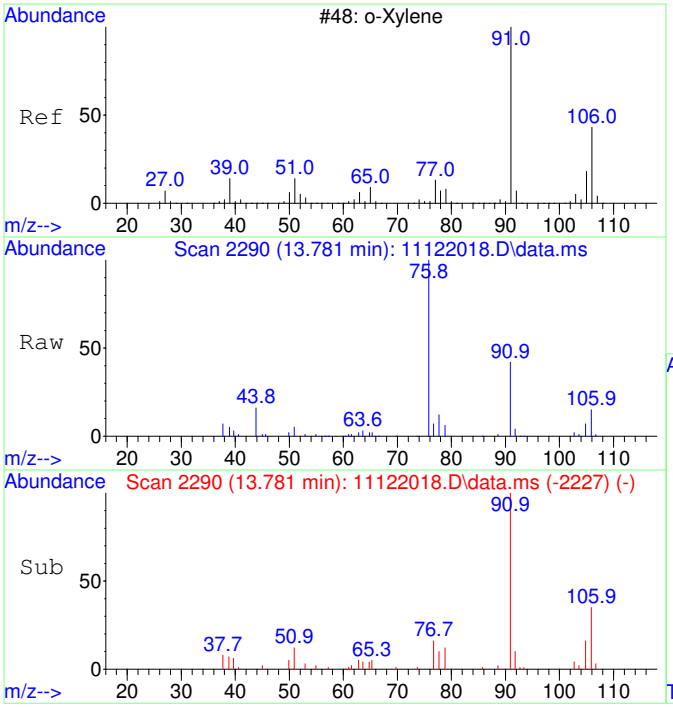


#43
m&p-Xylene SCAN
Concen: 817.52 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 91 Resp: 79796

Ion	Ratio	Lower	Upper
91	100		
106	49.0	23.1	83.1
105	23.1	0.0	54.7
51	14.6	0.0	40.1

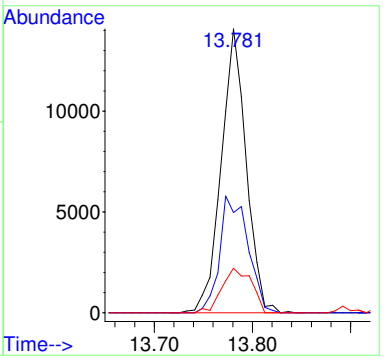




#44
o-Xylene SCAN
Concen: 475.22 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.000 min
Lab File: 11122018.D
Acq: 12 Nov 2020 15:10

Tgt Ion: 91 Resp: 24829

Ion	Ratio	Lower	Upper
91	100		
106	46.4	18.0	78.0
105	18.6	0.0	56.6



2011015-11

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122019.D
Acq On : 12 Nov 2020 15:34
InstName : AG5975C
Operator : TD
Sample : 2011015-11
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 13 06:13:18 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

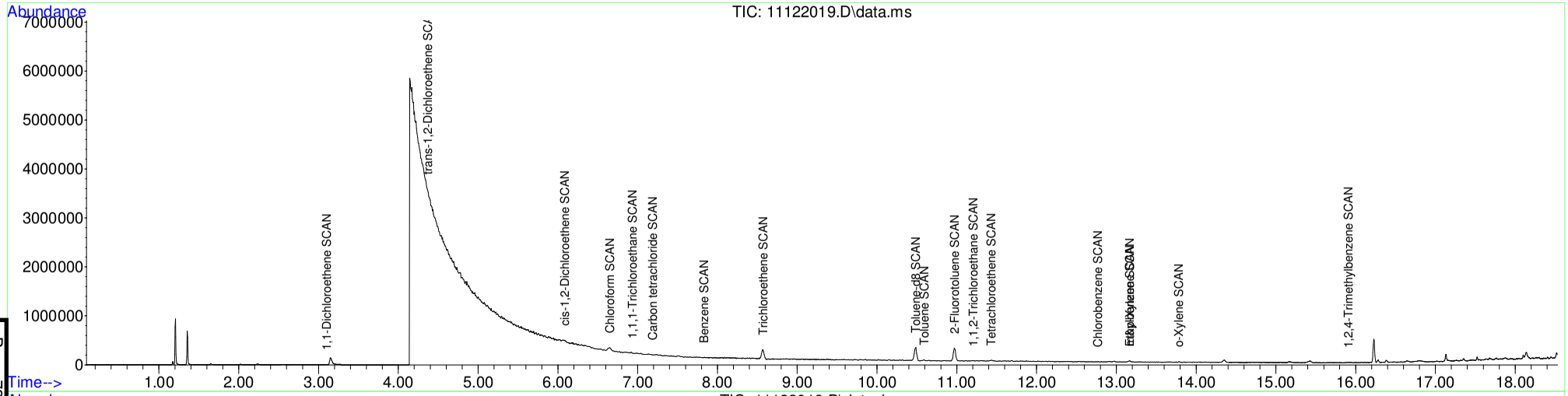
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	416194	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	356684	4377.86	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.56%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.082	61	2393	143.99	ug/L	72
3] trans-1,2-Dichloroethene	4.349	61	2437	126.92	ug/L	85
4] 1,1-Dichloroethane	5.072	63	2258	94.47	ug/L	87
5] cis-1,2-Dichloroethene	6.074	61	41972	1663.55	ug/L	98
6] Chloroform	6.639	83	107080	4146.50	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1424	50.77	ug/L	97
8] Carbon tetrachloride	7.175	117	1494	56.60	ug/L	99
9] Benzene	7.503	78	9966	140.93	ug/L	58
11] Trichloroethene	8.569	130	129163	6066.56	ug/L	93
13] Toluene	10.582	91	23076	222.16	ug/L	99
14] 1,1,2-Trichloroethane	11.159	97	467	20.63	ug/L #	20
15] Tetrachloroethene	11.432	166	6615	220.06	ug/L	98
18] Ethylbenzene	12.972	91	11290	89.30	ug/L	95
19] m&p-Xylene	13.163	91	31839	322.20	ug/L	95
20] o-Xylene	13.782	91	10566	100.08	ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	6534	55.98	ug/L	87
25) 2-Fluorotoluene SCAN	10.969	109	217797	5368.26	ug/L	100
26) 1,1-Dichloroethene SCAN	3.099	61	471	54.66	ug/L	79
27) trans-1,2-Dichloroethe...	4.361	61	736	69.03	ug/L #	42
29) cis-1,2-Dichloroethene...	6.086	61	26248	1985.46	ug/L #	81
30) Chloroform SCAN	6.650	83	58885	4106.61	ug/L	94
31) 1,1,1-Trichloroethane ...	6.930	97	664	50.82	ug/L #	28
32) Carbon tetrachloride SCAN	7.186	117	792	58.11	ug/L #	15
33) Benzene SCAN	7.828	78	6181	171.80	ug/L	92
35) Trichloroethene SCAN	8.568	130	65438	6618.57	ug/L	82
36) Toluene-d8 SCAN	10.486	98	199565	5029.68	ug/L	91
37) Toluene SCAN	10.591	91	11383	224.02	ug/L	75
38) 1,1,2-Trichloroethane ...	11.200	97	487	42.70	ug/L #	36
39) Tetrachloroethene SCAN	11.431	166	3349	274.34	ug/L	68
40) Chlorobenzene SCAN	12.764	112	1269	36.55	ug/L #	33
42) Ethylbenzene SCAN	13.169	91	18712	202.13	ug/L	81
43) m&p-Xylene SCAN	13.169	91	18712	202.13	ug/L	83
44) o-Xylene SCAN	13.781	91	6127	123.65	ug/L	88
47) 1,2,4-Trimethylbenzene...	15.904	105	3432	64.23	ug/L #	62

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122019.D
Acq On : 12 Nov 2020 15:34
InstName : AG5975C
Operator : TD
Sample : 2011015-11
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 13 06:13:18 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



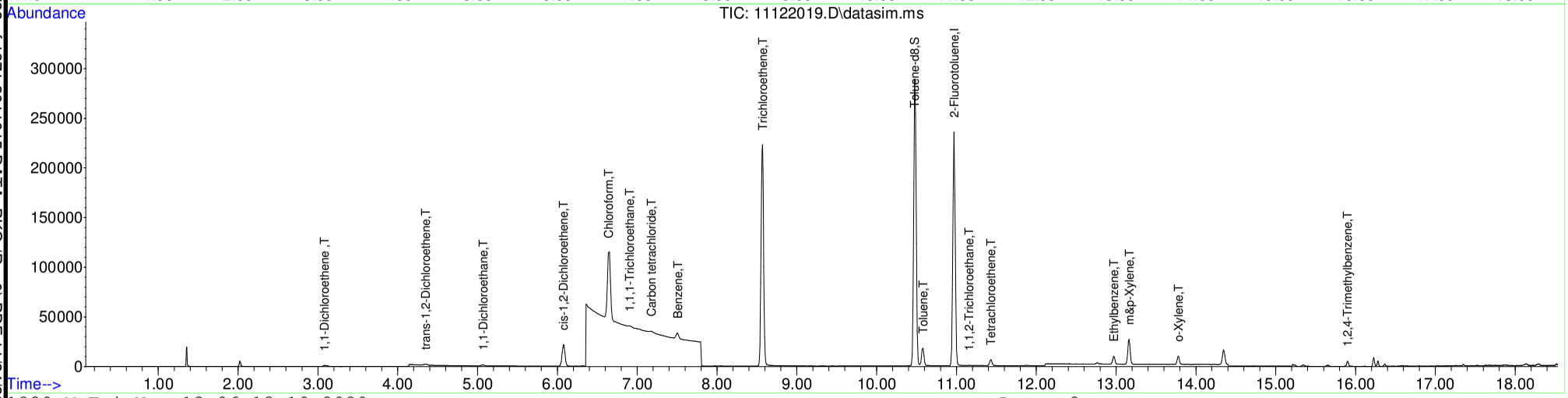
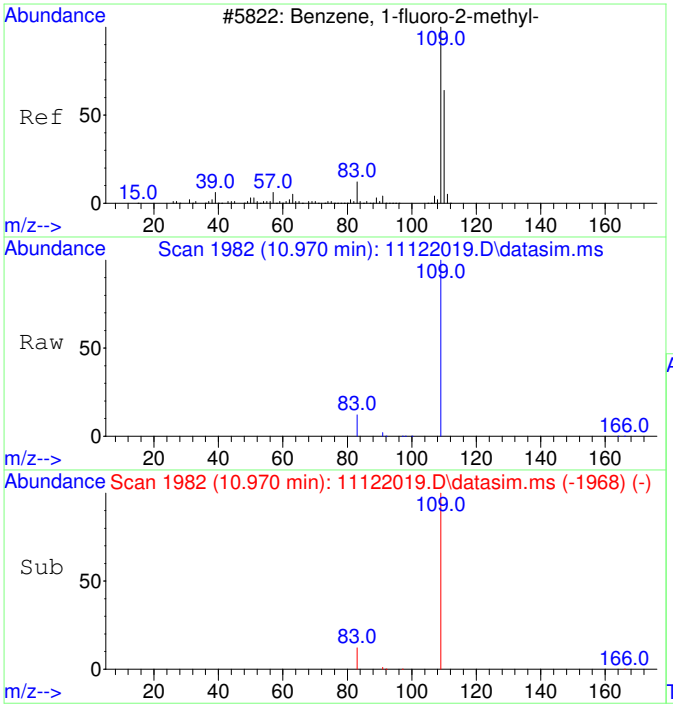


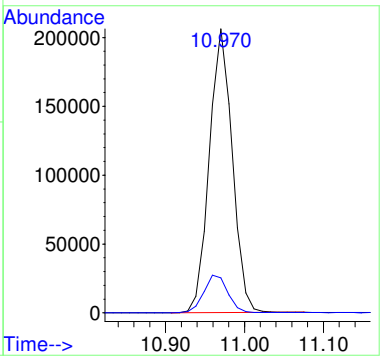
Table of Contents

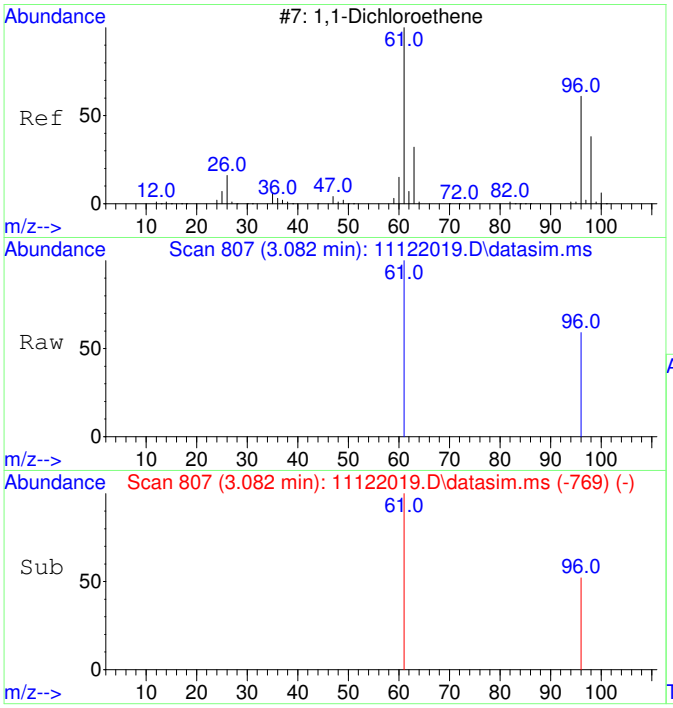


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:109 Resp: 416194

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

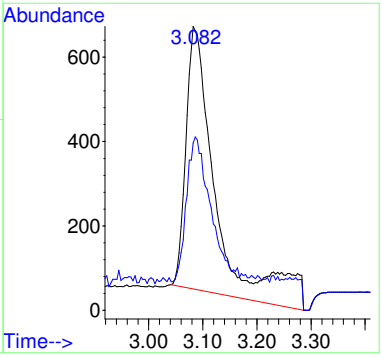




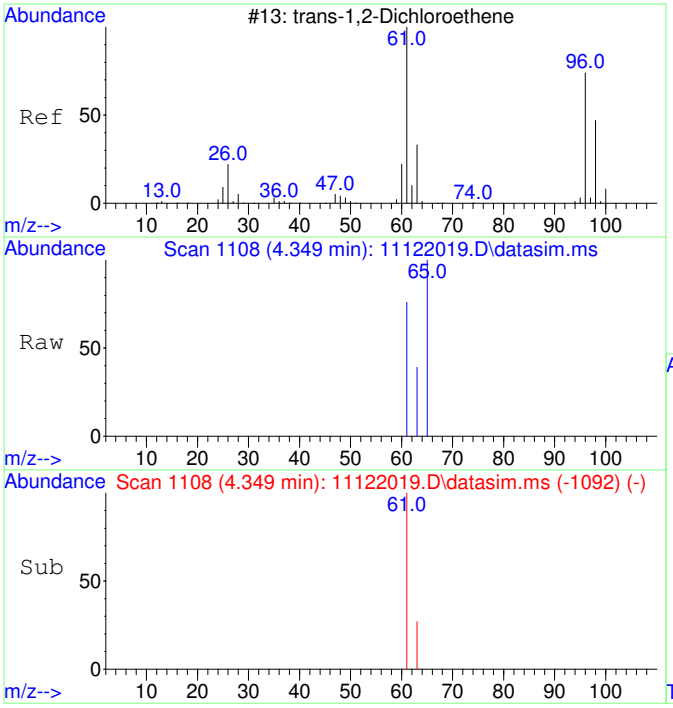
#2
1,1-Dichloroethene
Concen: 143.99 ug/L
RT: 3.082 min Scan# 807
Delta R.T. -0.008 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 61 Resp: 2393

Ion	Ratio	Lower	Upper
61	100		
96	44.5	37.2	97.2



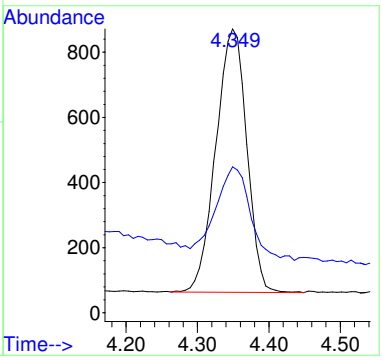
Before MI:
IMPROPER
BASELINE

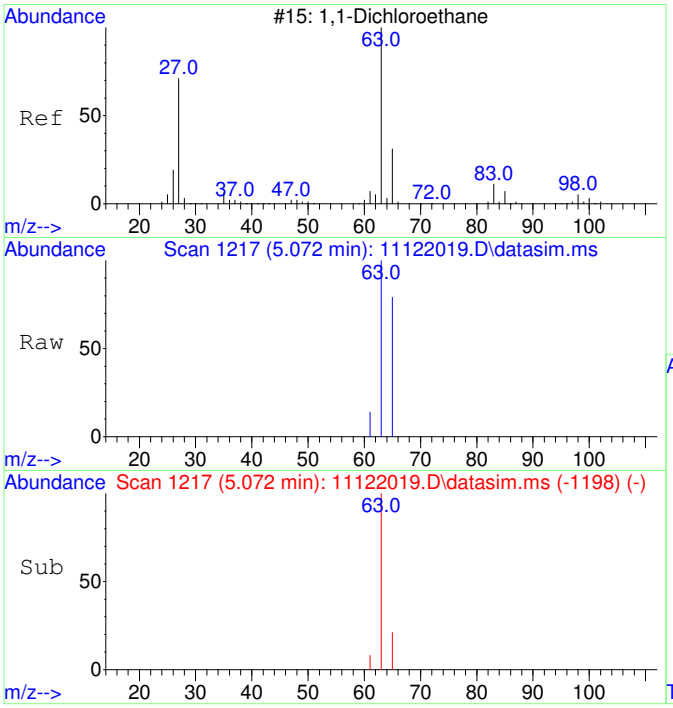


#3
trans-1,2-Dichloroethene
Concen: 126.92 ug/L
RT: 4.349 min Scan# 1108
Delta R.T. -0.046 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 61 Resp: 2437

Ion	Ratio	Lower	Upper
61	100		
63	40.7	2.4	62.4

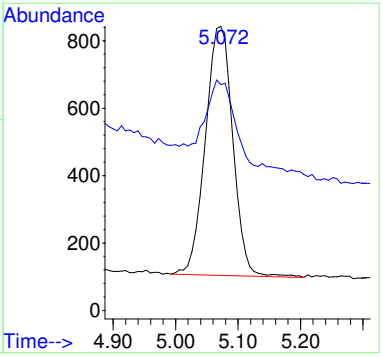


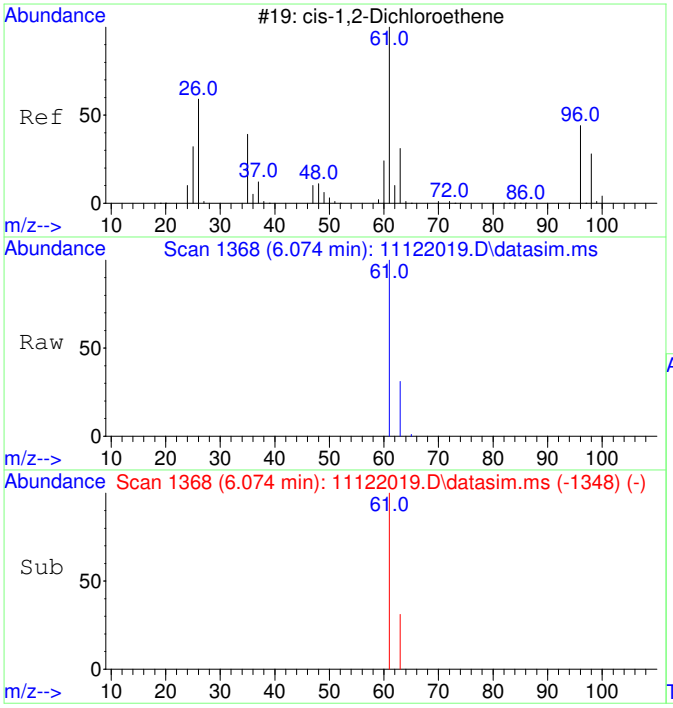


#4
1,1-Dichloroethane
Concen: 94.47 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. -0.026 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 63 Resp: 2258

Ion	Ratio	Lower	Upper
63	100		
65	39.3	1.8	61.8

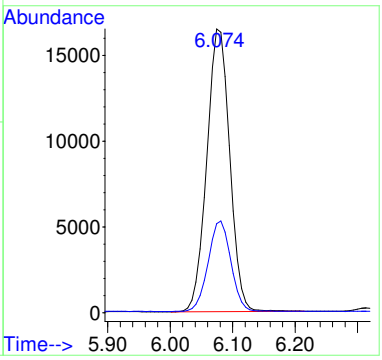


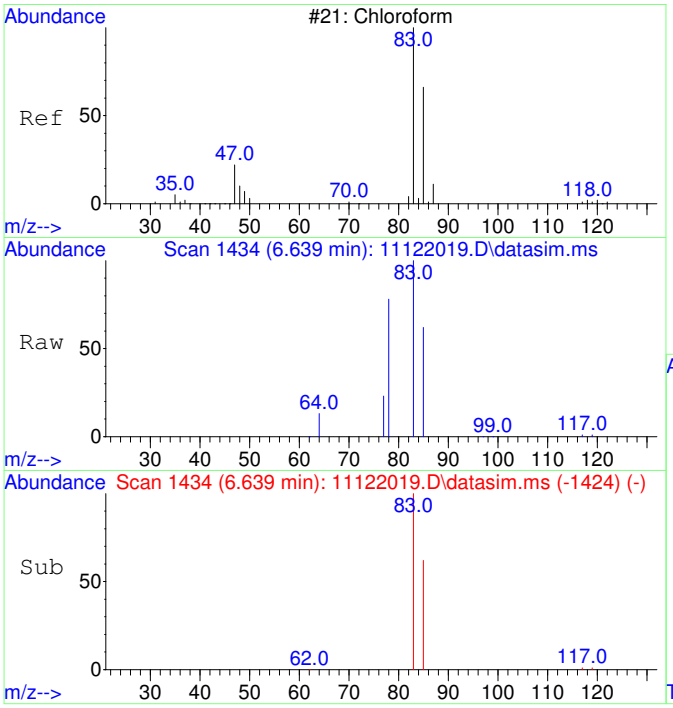


#5
cis-1,2-Dichloroethene
Concen: 1663.55 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.020 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 61 Resp: 41972

Ion	Ratio	Lower	Upper
61	100		
63	31.6	2.5	62.5

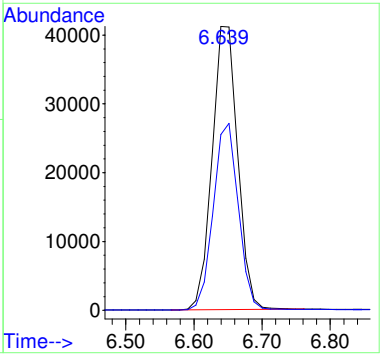


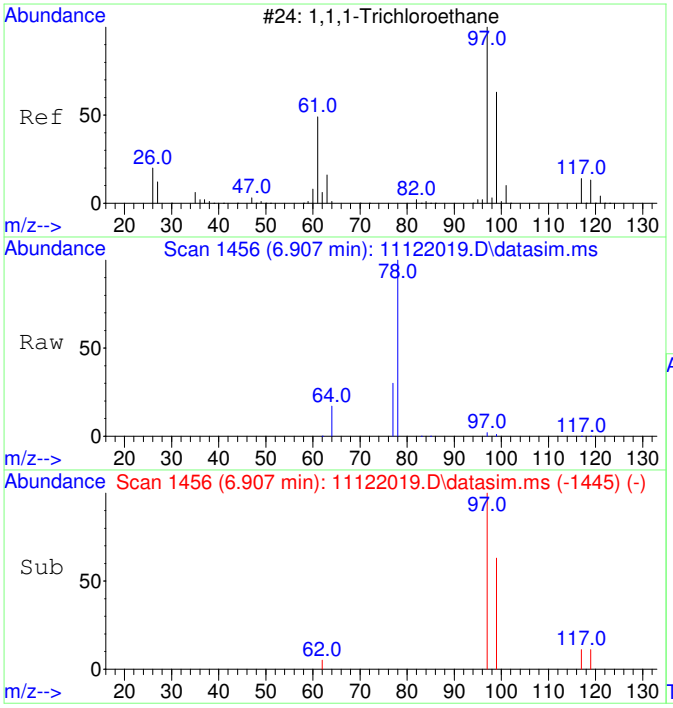


#6
Chloroform
Concen: 4146.50 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.024 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 83 Resp: 107080

Ion	Ratio	Lower	Upper
83	100		
85	64.3	35.1	95.1

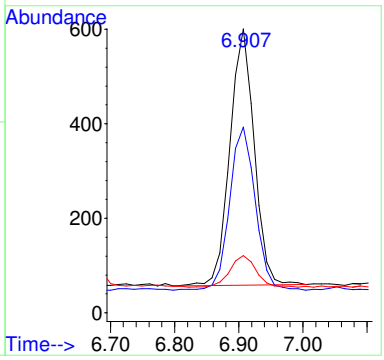


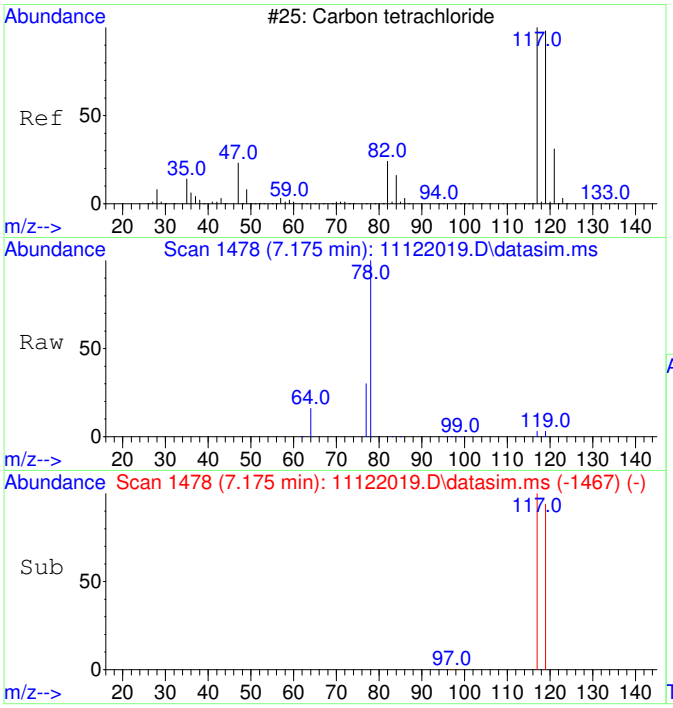


#7
1,1,1-Trichloroethane
Concen: 50.77 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 97 Resp: 1424

Ion	Ratio	Lower	Upper
97	100		
99	67.1	34.6	94.6
117	13.6	0.0	43.2

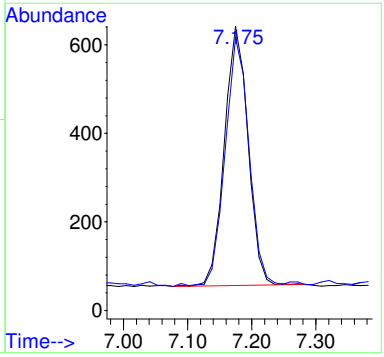


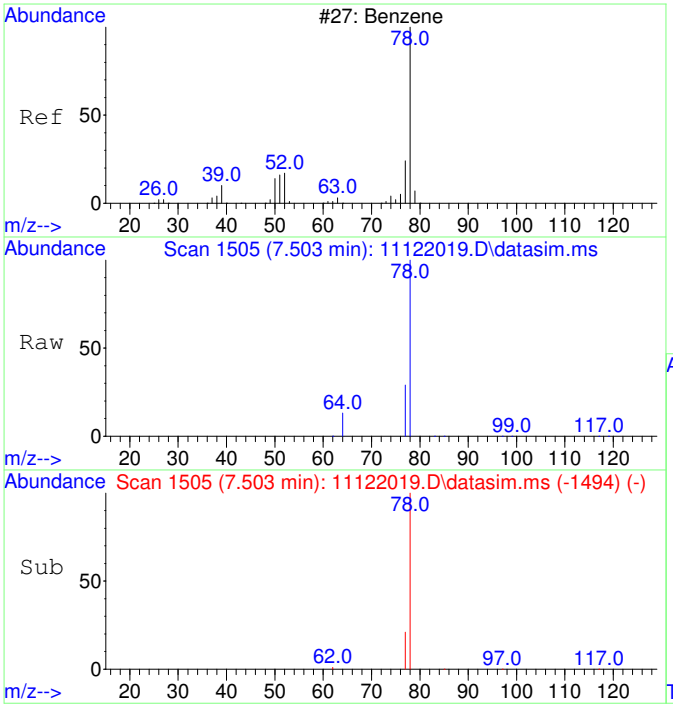


#8
Carbon tetrachloride
Concen: 56.60 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:117 Resp: 1494

Ion	Ratio	Lower	Upper
117	100		
119	95.5	66.4	126.4

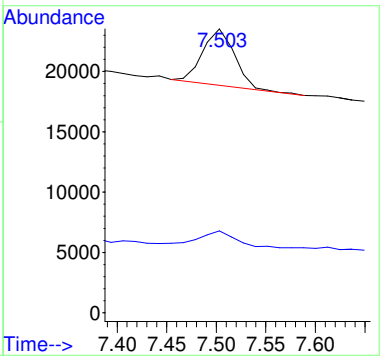


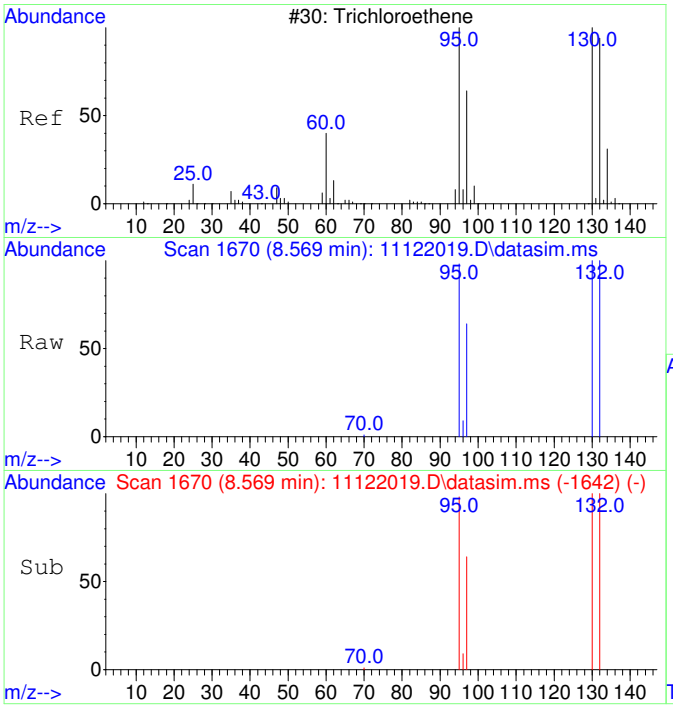


#9
Benzene
Concen: 140.93 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 78 Resp: 9966

Ion	Ratio	Lower	Upper
78	100		
77	43.7	0.0	53.2

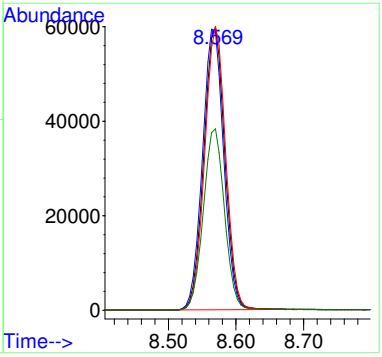


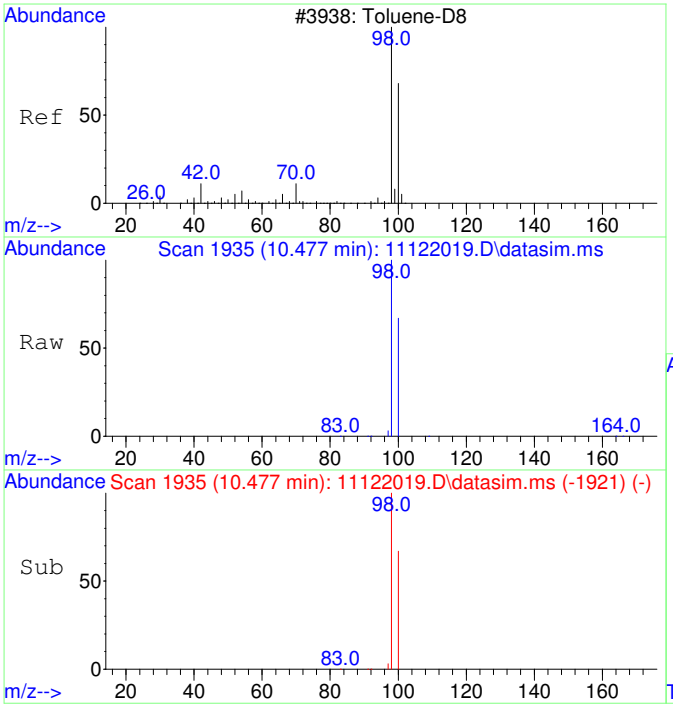


#11
Trichloroethene
Concen: 6066.56 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:130 Resp: 129163

Ion	Ratio	Lower	Upper
130	100		
95	100.4	60.7	120.7
132	99.9	76.0	116.0
97	64.2	38.6	78.6

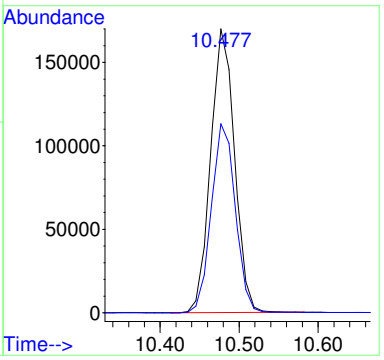


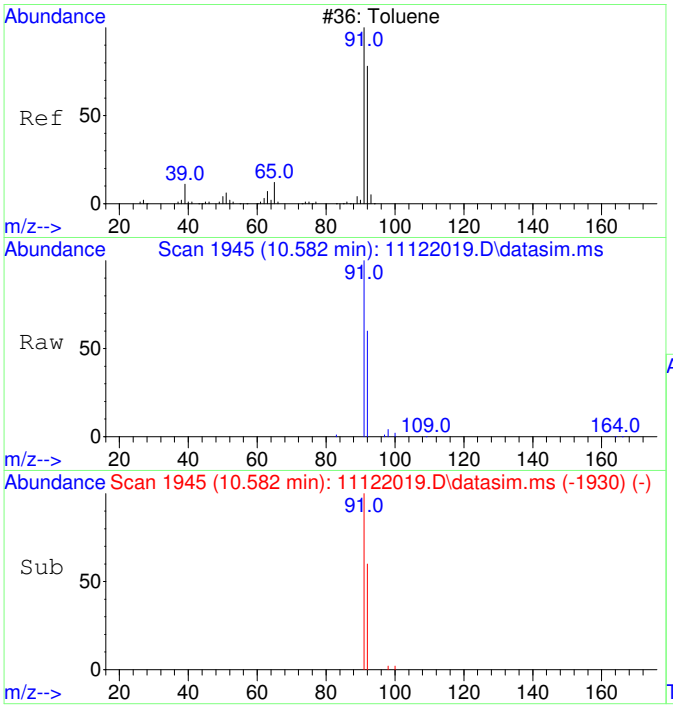


#12
Toluene-d8
Concen: 4377.86 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 98 Resp: 356684

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.1	97.1

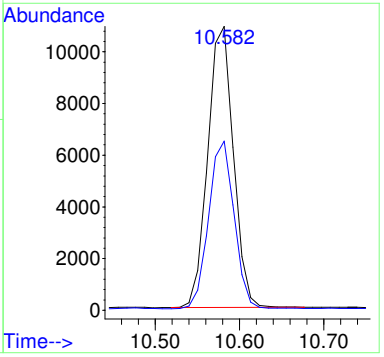


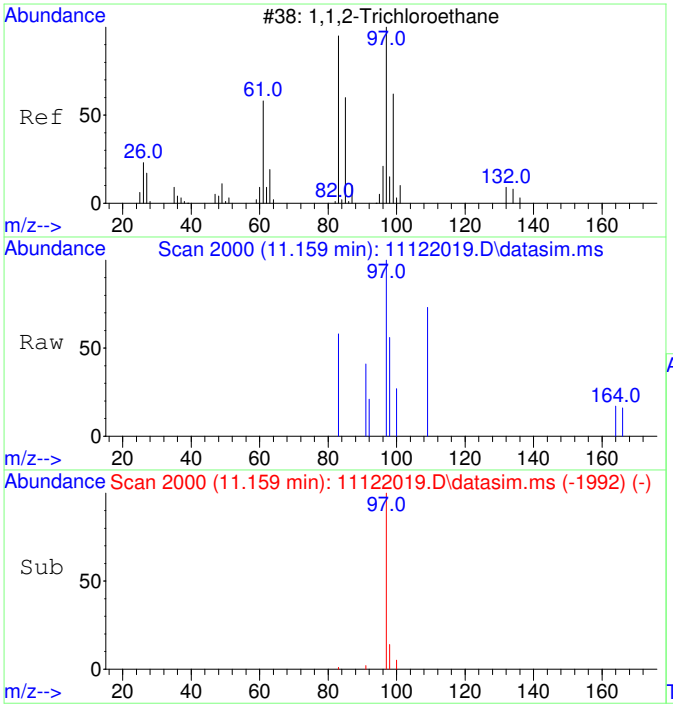


#13
Toluene
Concen: 222.16 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 23076

Ion	Ratio	Lower	Upper
91	100		
92	59.0	29.9	89.9

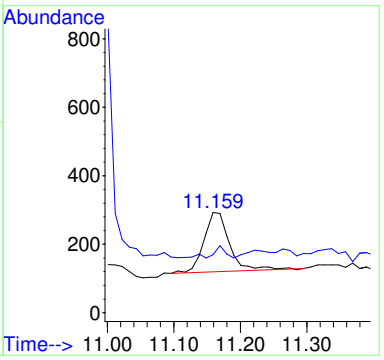


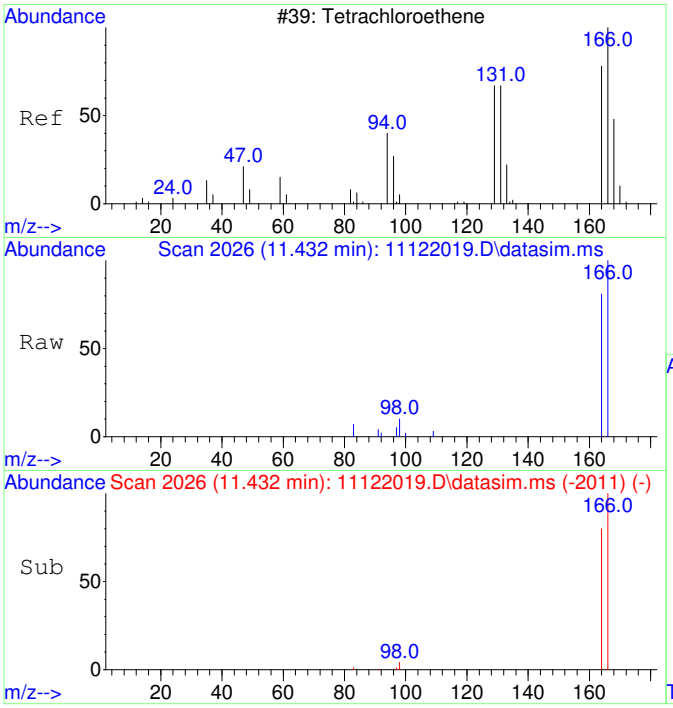


#14
1,1,2-Trichloroethane
Concen: 20.63 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 97 Resp: 467

Ion	Ratio	Lower	Upper
97	100		
83	9.9	51.2	111.2#

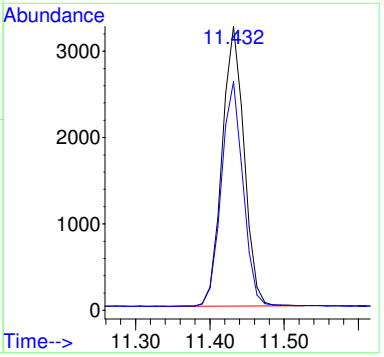


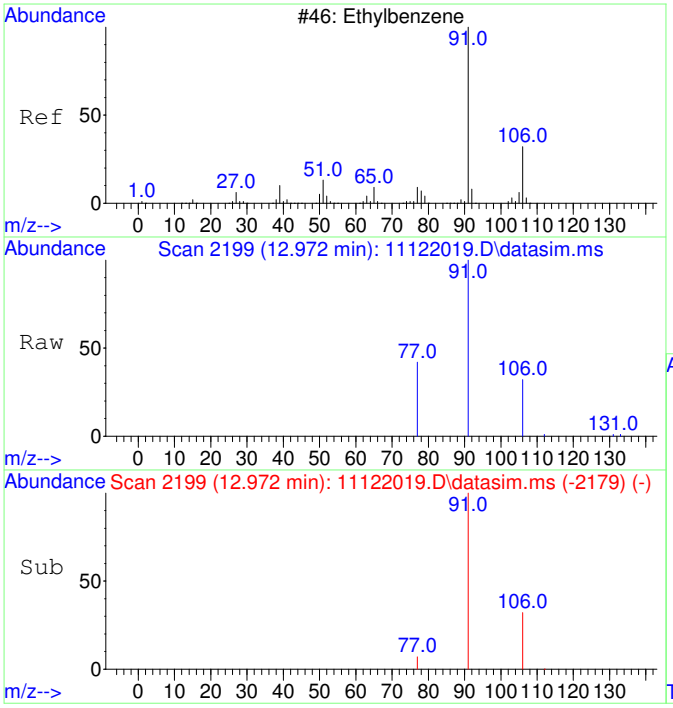


#15
Tetrachloroethene
Concen: 220.06 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:166 Resp: 6615

Ion	Ratio	Lower	Upper
166	100		
164	79.1	47.8	107.8

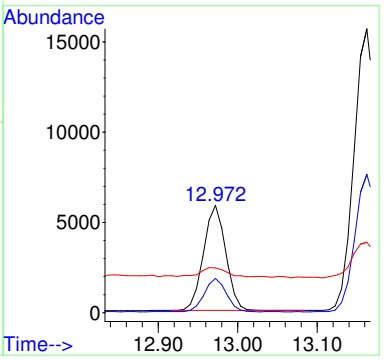


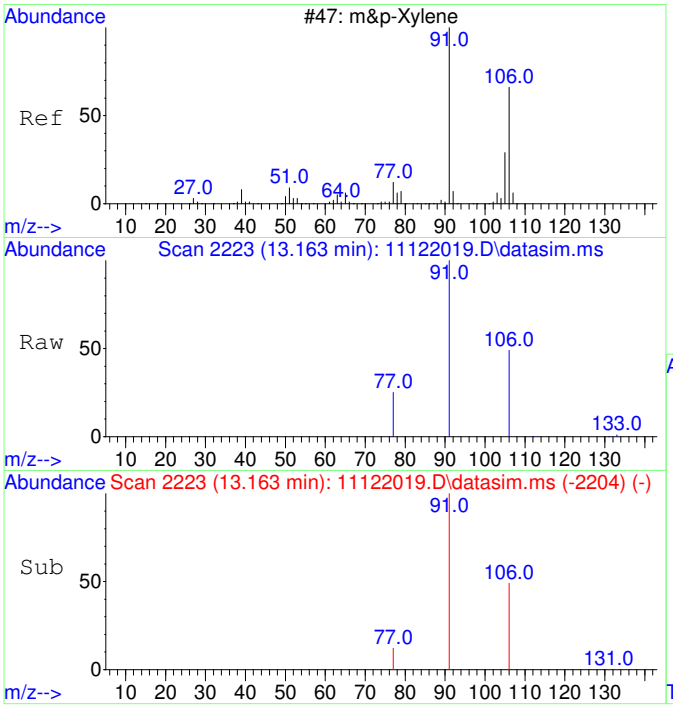


#18
Ethylbenzene
Concen: 89.30 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 11290

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	12.7	0.0	38.2

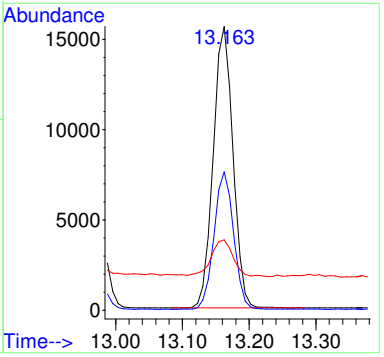


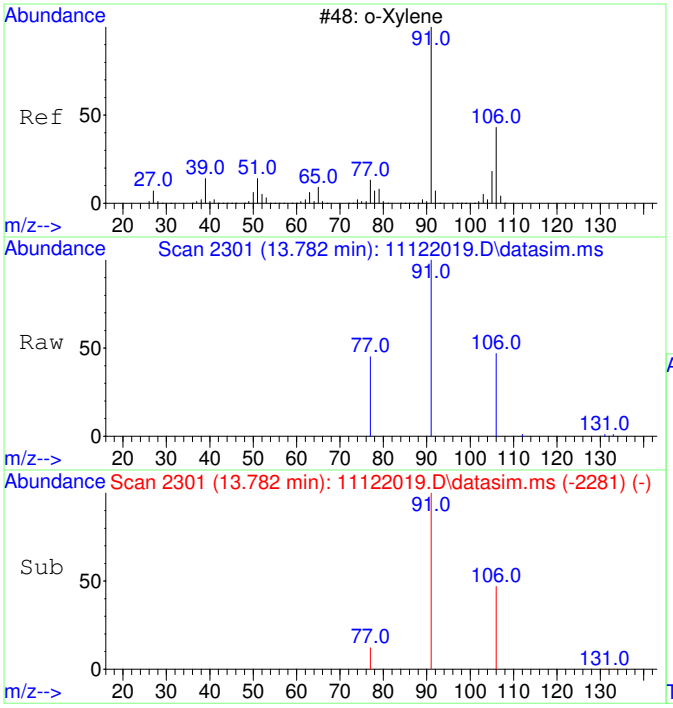


#19
m&p-Xylene
Concen: 322.20 ug/L
RT: 13.163 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 31839

Ion	Ratio	Lower	Upper
91	100		
106	48.6	22.2	82.2
77	14.7	0.0	42.4

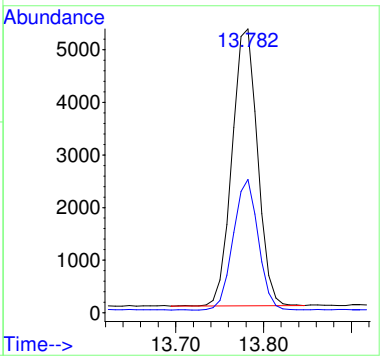


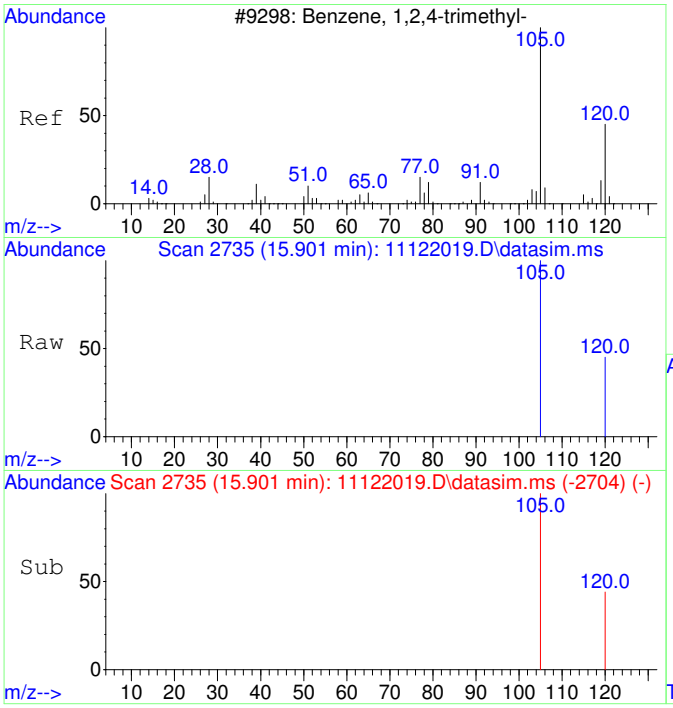


#20
o-Xylene
Concen: 100.08 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 10566

Ion	Ratio	Lower	Upper
91	100		
106	46.4	19.2	79.2

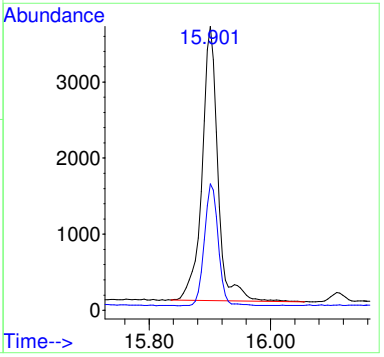


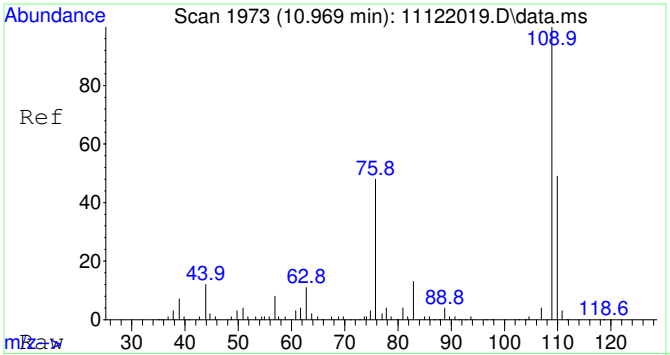


#23
1,2,4-Trimethylbenzene
Concen: 55.98 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:105 Resp: 6534

Ion	Ratio	Lower	Upper
105	100		
120	38.6	17.2	77.2

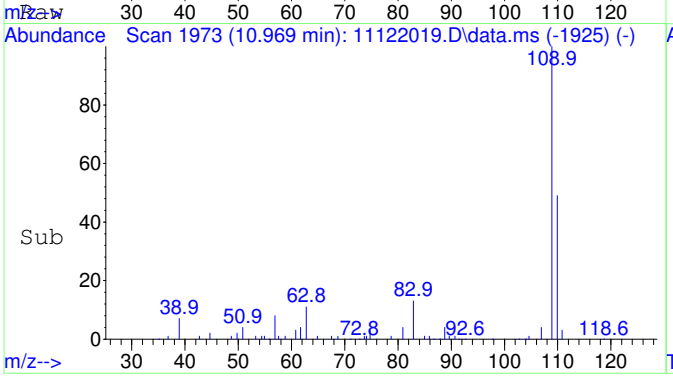


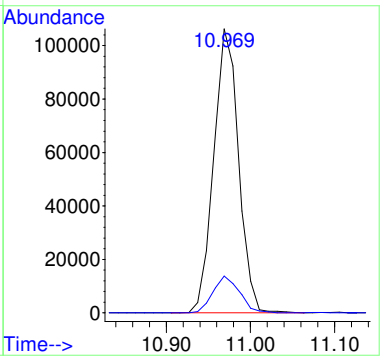


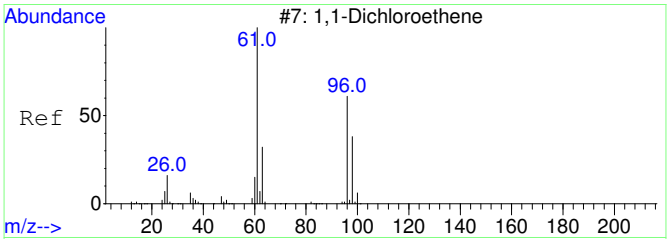
#25
2-Fluorotoluene SCAN
Concen: 5368.26 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:109 Resp: 217797

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	43.8



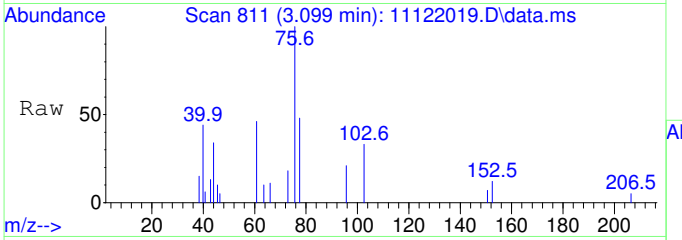


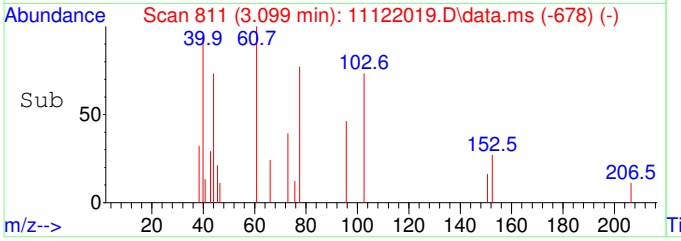


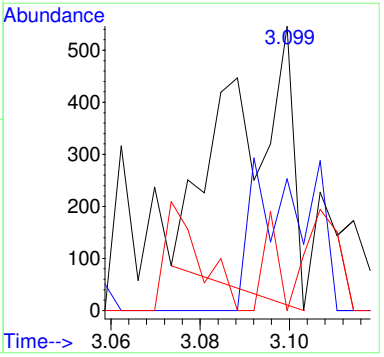
#26
1,1-Dichloroethene SCAN
Concen: 54.66 ug/L
RT: 3.099 min Scan# 811
Delta R.T. -0.008 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

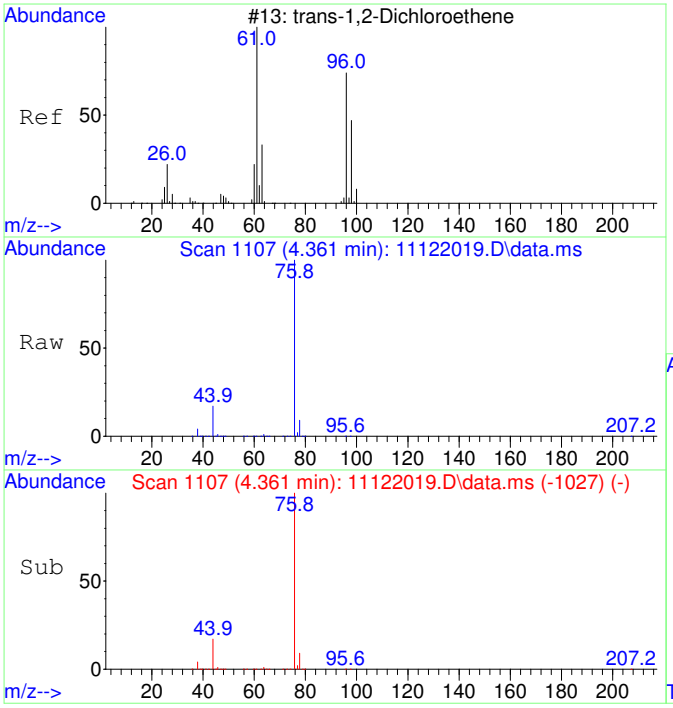
Tgt Ion: 61 Resp: 471

Ion	Ratio	Lower	Upper
61	100		
96	51.8	33.1	93.1
98	21.4	11.2	71.2





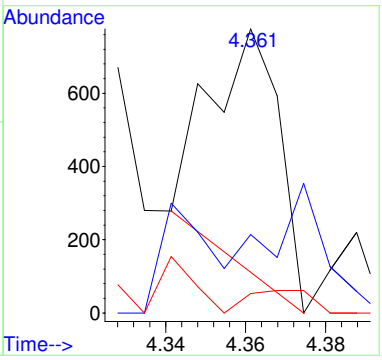


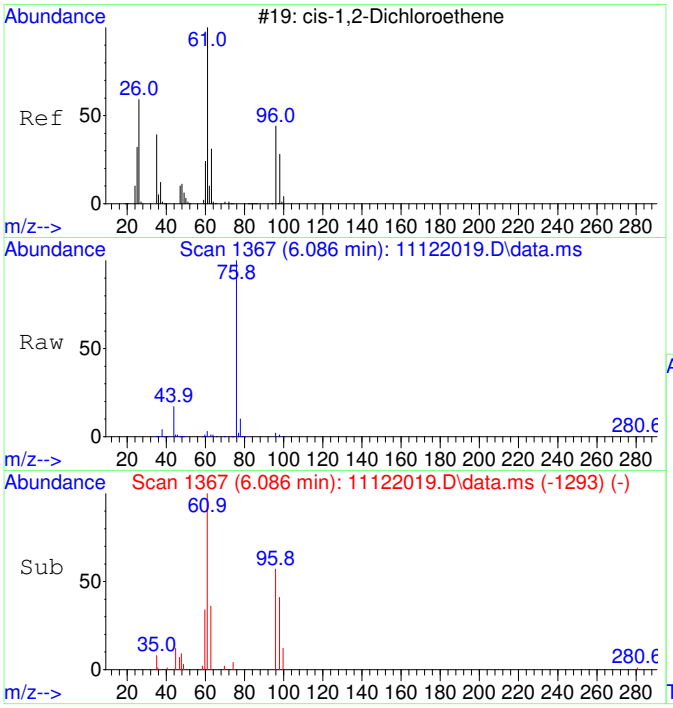


#27
trans-1,2-Dichloroethene SCAN
Concen: 69.03 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. -0.040 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 61 Resp: 736

Ion	Ratio	Lower	Upper
61	100		
96	29.3	49.0	109.0#
98	9.5	20.5	80.5#

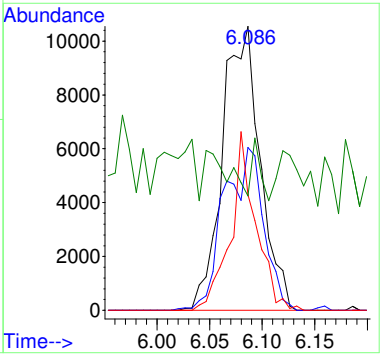


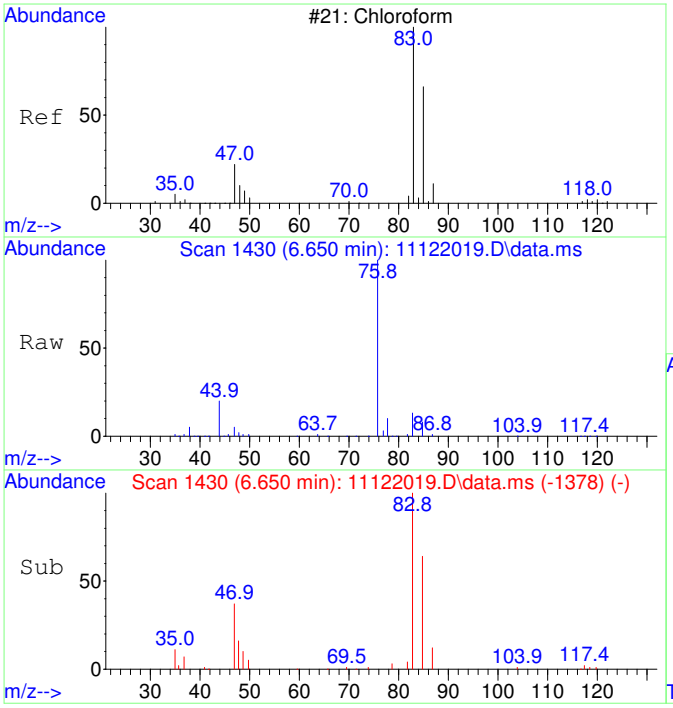


#29
cis-1,2-Dichloroethene SCAN
Concen: 1985.46 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 61 Resp: 26248

Ion	Ratio	Lower	Upper
61	100		
96	60.3	39.9	99.9
98	41.6	13.5	73.5
64	4.4	4.5	64.5#

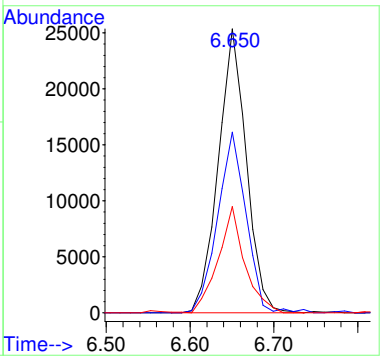


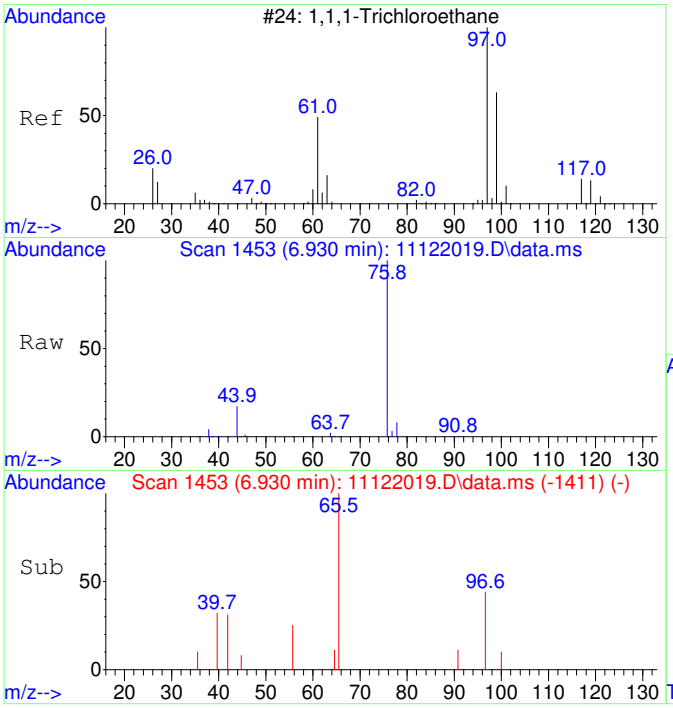


#30
Chloroform SCAN
Concen: 4106.61 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 83 Resp: 58885

Ion	Ratio	Lower	Upper
83	100		
85	64.6	34.6	94.6
47	35.3	0.0	53.4

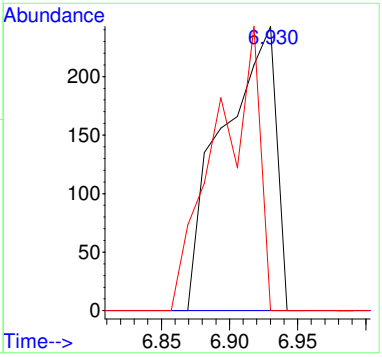


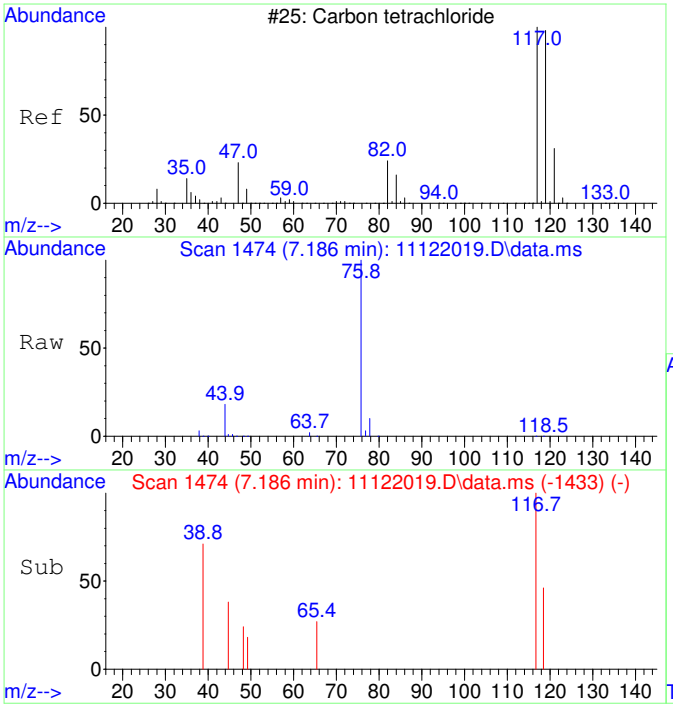


#31
1,1,1-Trichloroethane SCAN
Concen: 50.82 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. 0.012 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 97 Resp: 664

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	80.1	18.0	78.0#

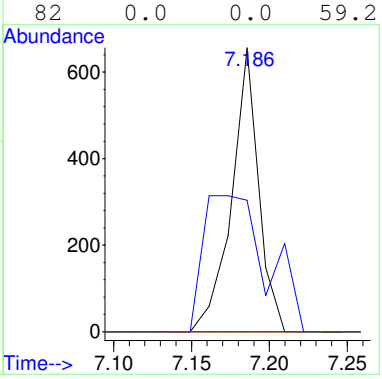


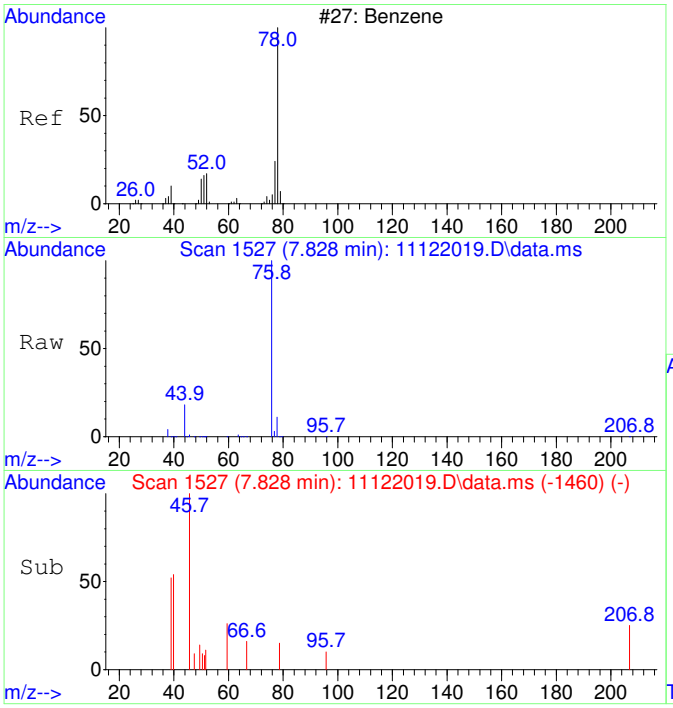


#32
Carbon tetrachloride SCAN
Concen: 58.11 ug/L
RT: 7.186 min Scan# 1474
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:117 Resp: 792

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

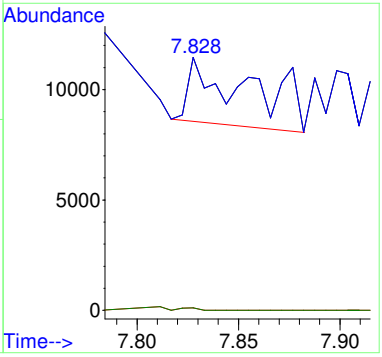


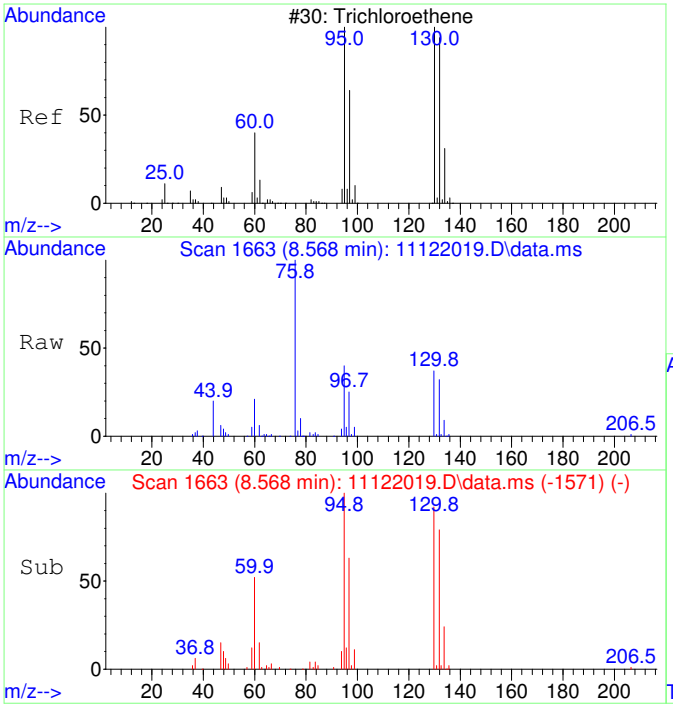


#33
Benzene SCAN
Concen: 171.80 ug/L
RT: 7.828 min Scan# 1527
Delta R.T. 0.314 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 78 Resp: 6181

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	2.7	0.0	47.9
51	2.7	0.0	44.1

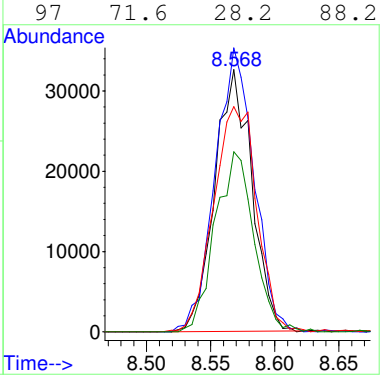


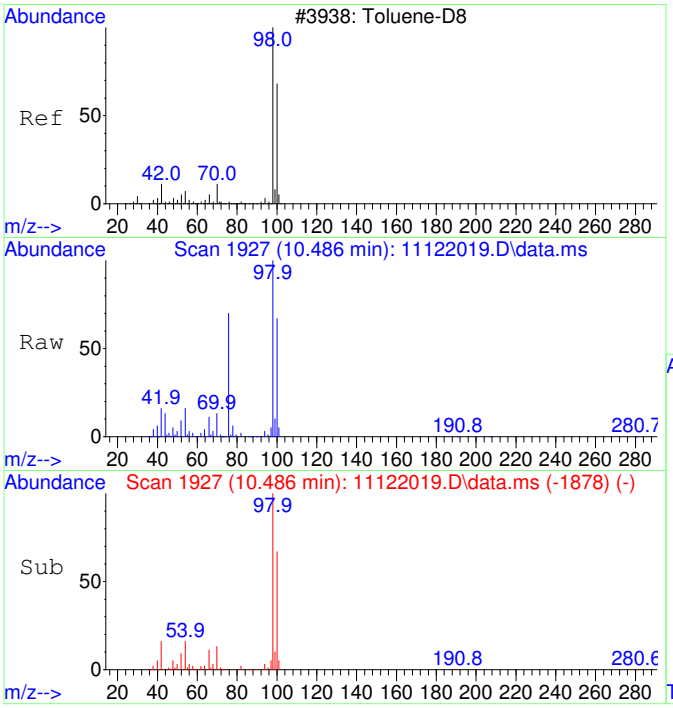


#35
Trichloroethene SCAN
Concen: 6618.57 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:130 Resp: 65438

Ion	Ratio	Lower	Upper
130	100		
95	114.0	60.5	120.5
132	100.6	59.6	119.6
97	71.6	28.2	88.2

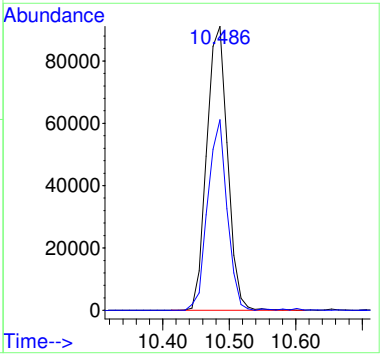


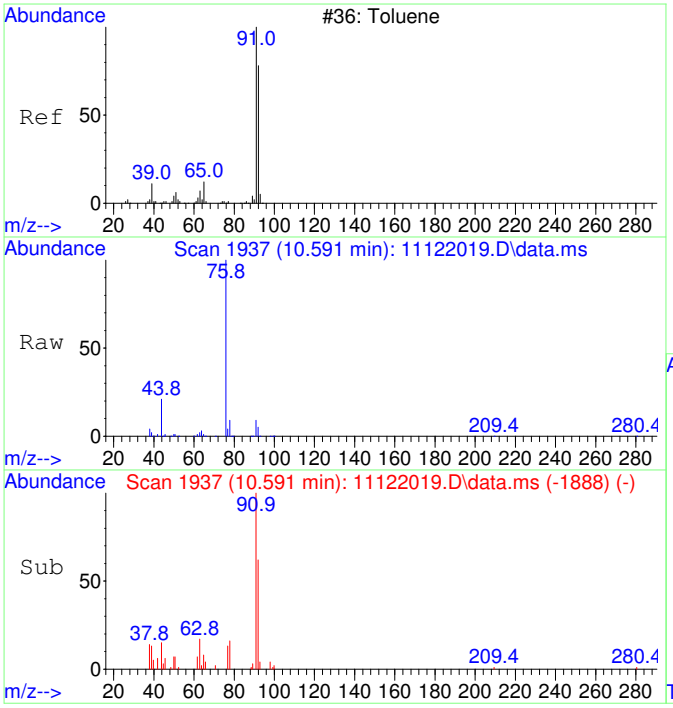


#36
Toluene-d8 SCAN
Concen: 5029.68 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 98 Resp: 199565

Ion	Ratio	Lower	Upper
98	100		
100	62.5	40.0	100.0

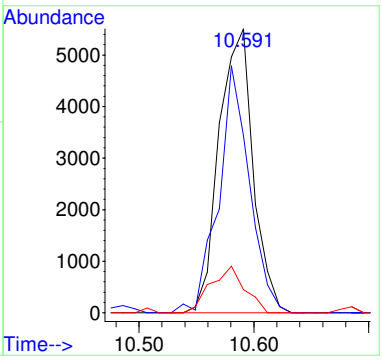


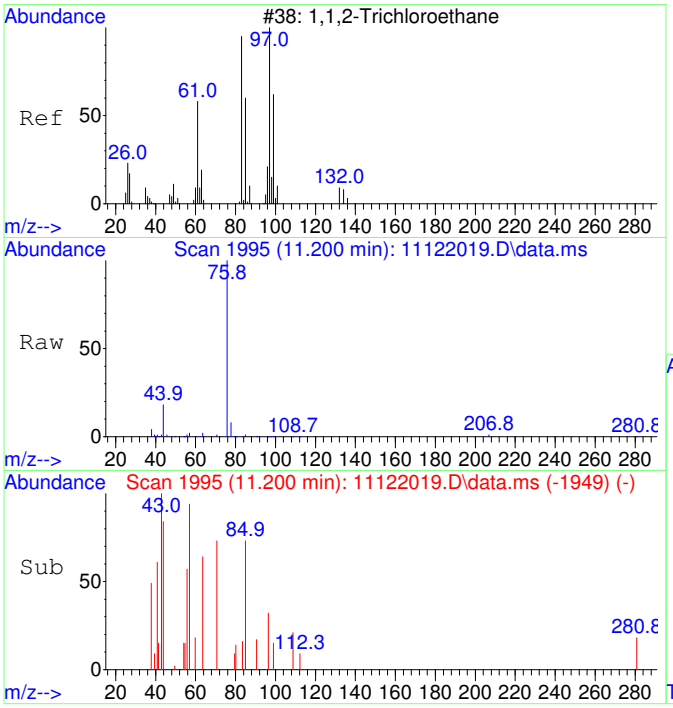


#37
Toluene SCAN
Concen: 224.02 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.011 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 11383

Ion	Ratio	Lower	Upper
91	100		
92	78.6	28.3	88.3
65	16.4	0.0	41.0

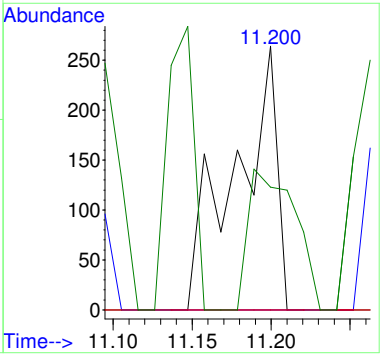


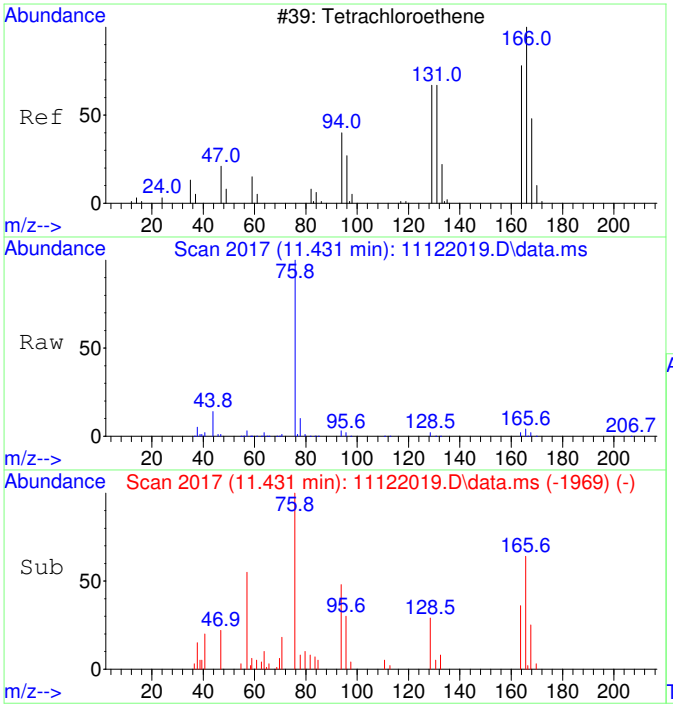


#38
1,1,2-Trichloroethane SCAN
Concen: 42.70 ug/L
RT: 11.200 min Scan# 1995
Delta R.T. -0.021 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 97 Resp: 487

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	59.8	36.7	96.7

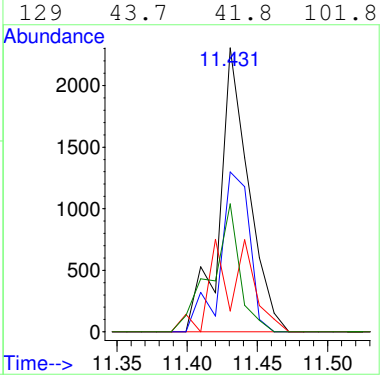


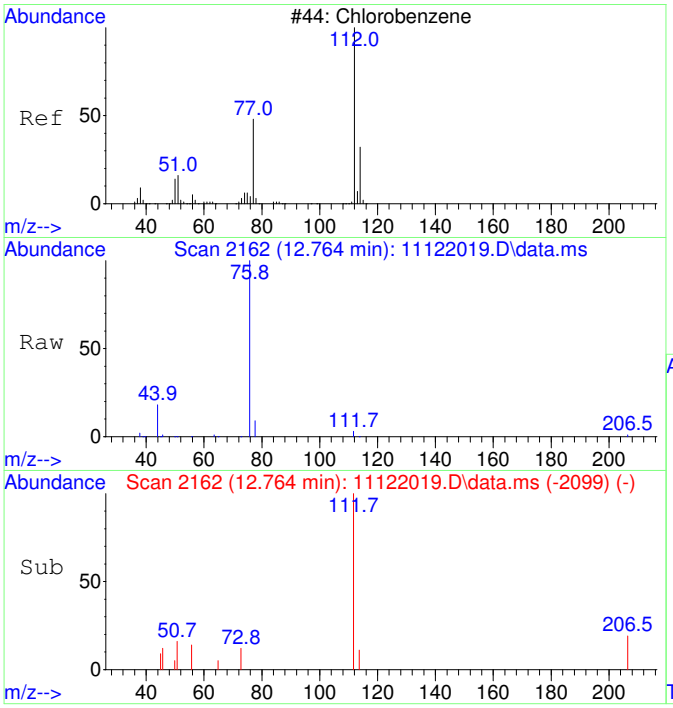


#39
Tetrachloroethene SCAN
Concen: 274.34 ug/L
RT: 11.431 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:166 Resp: 3349

Ion	Ratio	Lower	Upper
166	100		
164	56.9	50.9	110.9
131	40.0	38.7	98.7
129	43.7	41.8	101.8

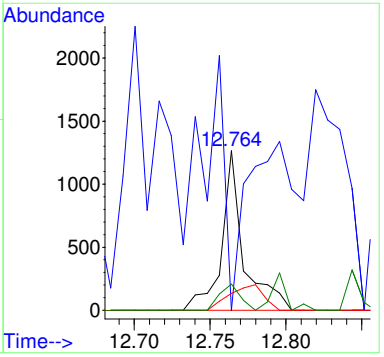


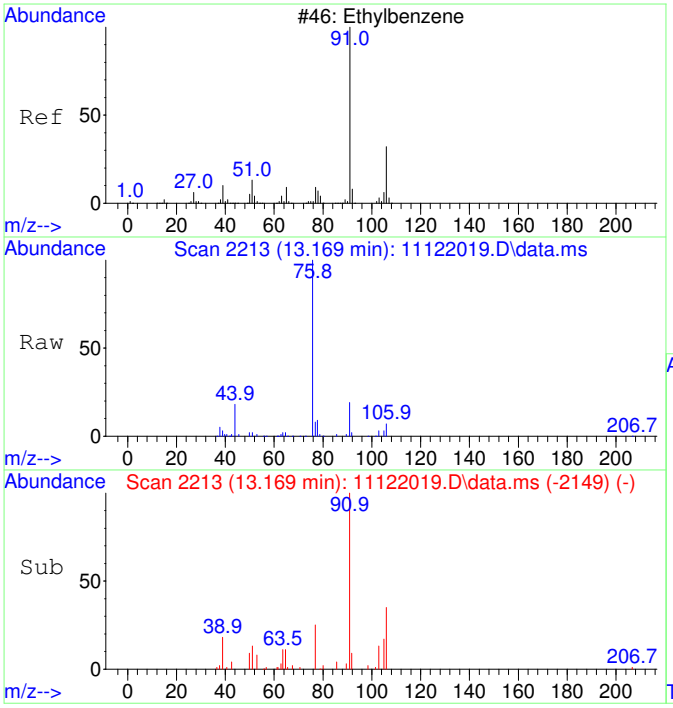


#40
Chlorobenzene SCAN
Concen: 36.55 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:112 Resp: 1269

Ion	Ratio	Lower	Upper
112	100		
77	127.0	28.2	88.2#
114	0.0	2.3	62.3#
51	15.6	0.0	50.1

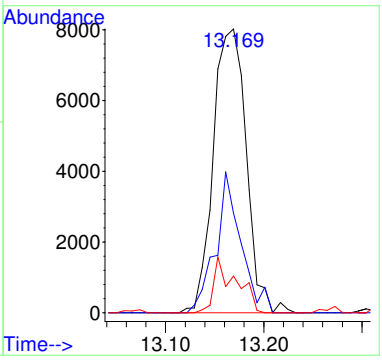


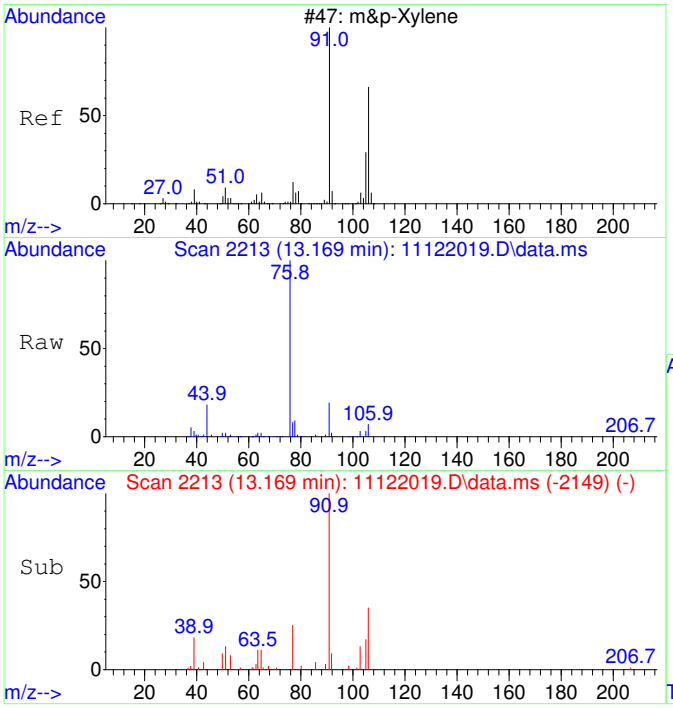


#42
Ethylbenzene SCAN
Concen: 202.13 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 18712

Ion	Ratio	Lower	Upper
91	100		
106	38.2	23.1	83.1
51	13.5	0.0	40.1

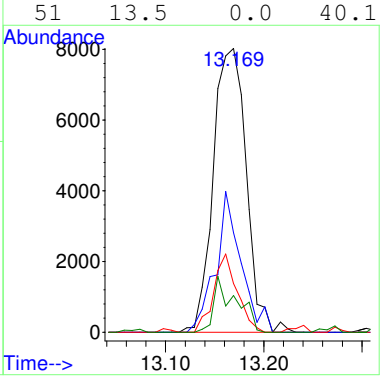


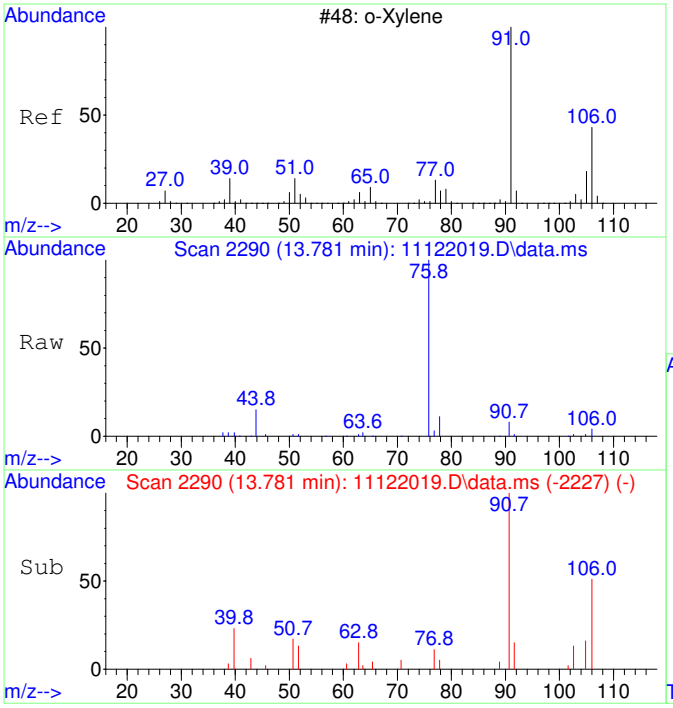


#43
m&p-Xylene SCAN
Concen: 202.13 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 18712

Ion	Ratio	Lower	Upper
91	100		
106	38.2	23.1	83.1
105	19.8	0.0	54.7
51	13.5	0.0	40.1

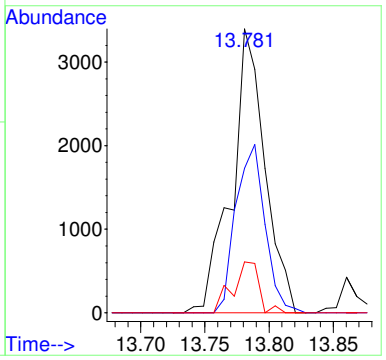


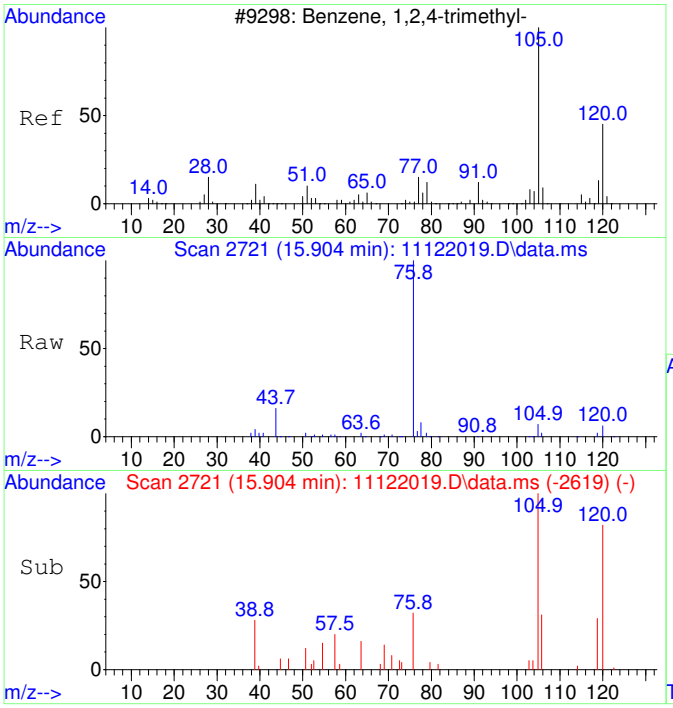


#44
o-Xylene SCAN
Concen: 123.65 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 6127

Ion	Ratio	Lower	Upper
91	100		
106	51.8	18.0	78.0
105	14.1	0.0	56.6

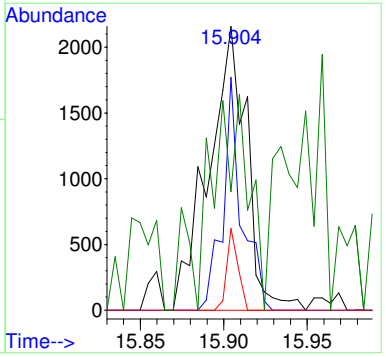




#47
1,2,4-Trimethylbenzene SCAN
Concen: 64.23 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:105 Resp: 3432

Ion	Ratio	Lower	Upper
105	100		
120	40.5	16.9	76.9
119	8.5	0.0	41.9
77	80.4	0.0	42.3#



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122019.D
Acq On : 12 Nov 2020 15:34
InstName : AG5975C
Operator : TD
Sample : 2011015-11
Misc :
ALS Vial : 19 Sample Multiplier: 1

M.I. Performed By:
TD at 11:39 am, Nov 13, 2020

M.I. Approved By:
ZR at 2:24 pm, Nov 23, 2020

Quant Time: Nov 13 06:13:18 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

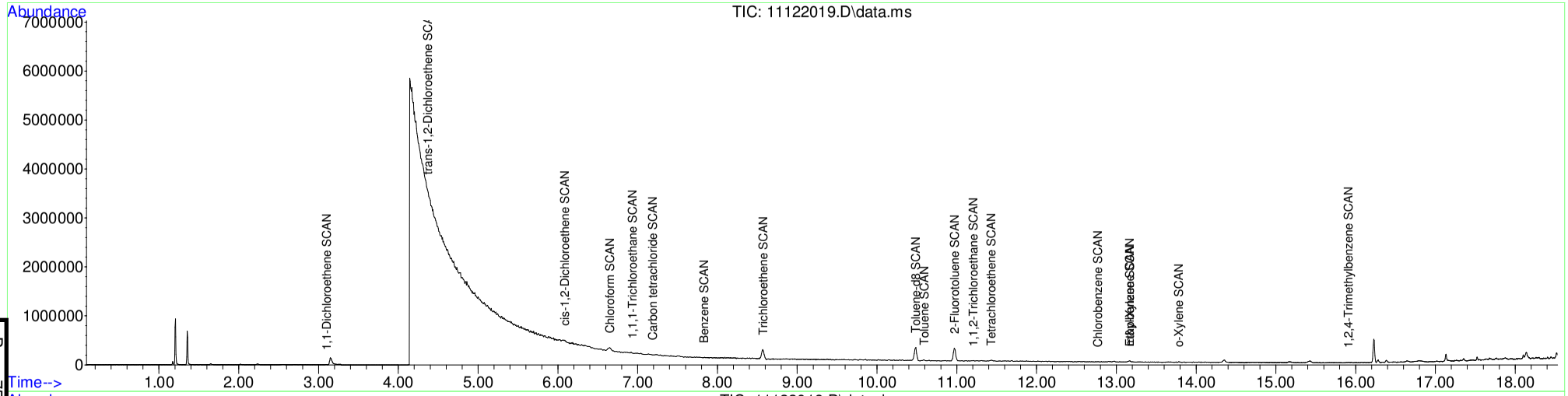
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	416194	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	356684	4377.86	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.56%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.082	61	1842m	110.84	ug/L	
3] trans-1,2-Dichloroethene	4.349	61	2437	126.92	ug/L	85
4] 1,1-Dichloroethane	5.072	63	2258	94.47	ug/L	87
5] cis-1,2-Dichloroethene	6.074	61	41972	1663.55	ug/L	98
6] Chloroform	6.639	83	107080	4146.50	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1424	50.77	ug/L	97
8] Carbon tetrachloride	7.175	117	1494	56.60	ug/L	99
9] Benzene	7.503	78	9966	140.93	ug/L	58
11] Trichloroethene	8.569	130	129163	6066.56	ug/L	93
13] Toluene	10.582	91	23076	222.16	ug/L	99
14] 1,1,2-Trichloroethane	11.159	97	467	20.63	ug/L #	20
15] Tetrachloroethene	11.432	166	6615	220.06	ug/L	98
18] Ethylbenzene	12.972	91	11290	89.30	ug/L	95
19] m&p-Xylene	13.163	91	31839	322.20	ug/L	95
20] o-Xylene	13.782	91	10566	100.08	ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	6534	55.98	ug/L	87
25) 2-Fluorotoluene SCAN	10.969	109	217797	5368.26	ug/L	100
26) 1,1-Dichloroethene SCAN	3.099	61	471	54.66	ug/L	79
27) trans-1,2-Dichloroethe...	4.361	61	736	69.03	ug/L #	42
29) cis-1,2-Dichloroethene...	6.086	61	26248	1985.46	ug/L #	81
30) Chloroform SCAN	6.650	83	58885	4106.61	ug/L	94
31) 1,1,1-Trichloroethane ...	6.930	97	664	50.82	ug/L #	28
32) Carbon tetrachloride SCAN	7.186	117	792	58.11	ug/L #	15
33) Benzene SCAN	7.828	78	6181	171.80	ug/L	92
35) Trichloroethene SCAN	8.568	130	65438	6618.57	ug/L	82
36) Toluene-d8 SCAN	10.486	98	199565	5029.68	ug/L	91
37) Toluene SCAN	10.591	91	11383	224.02	ug/L	75
38) 1,1,2-Trichloroethane ...	11.200	97	487	42.70	ug/L #	36
39) Tetrachloroethene SCAN	11.431	166	3349	274.34	ug/L	68
40) Chlorobenzene SCAN	12.764	112	1269	36.55	ug/L #	33
42) Ethylbenzene SCAN	13.169	91	18712	202.13	ug/L	81
43) m&p-Xylene SCAN	13.169	91	18712	202.13	ug/L	83
44) o-Xylene SCAN	13.781	91	6127	123.65	ug/L	88
47) 1,2,4-Trimethylbenzene...	15.904	105	3432	64.23	ug/L #	62

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122019.D
Acq On : 12 Nov 2020 15:34
InstName : AG5975C
Operator : TD
Sample : 2011015-11
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 13 06:13:18 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



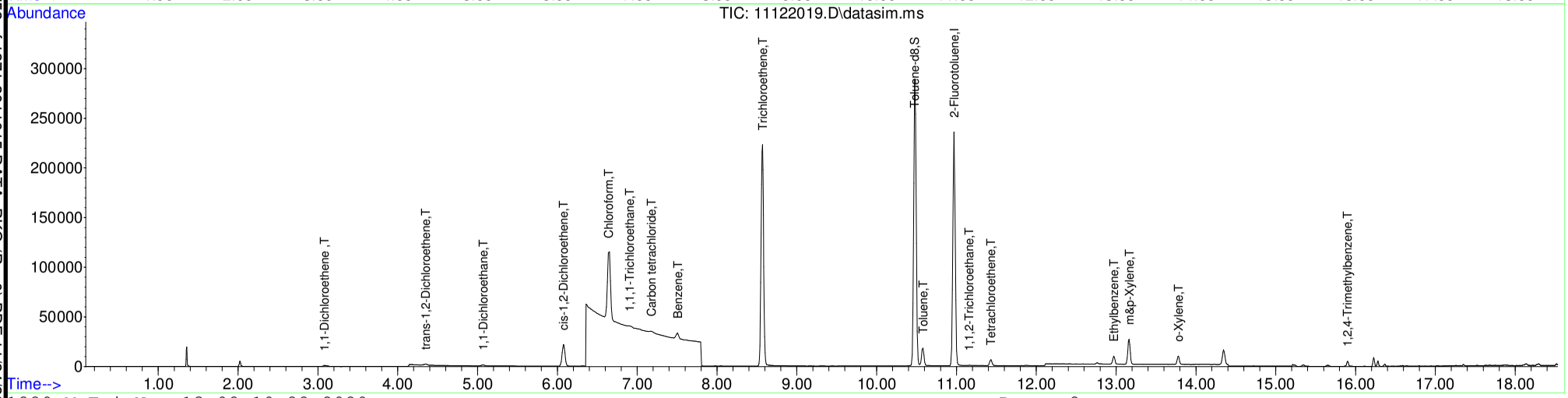
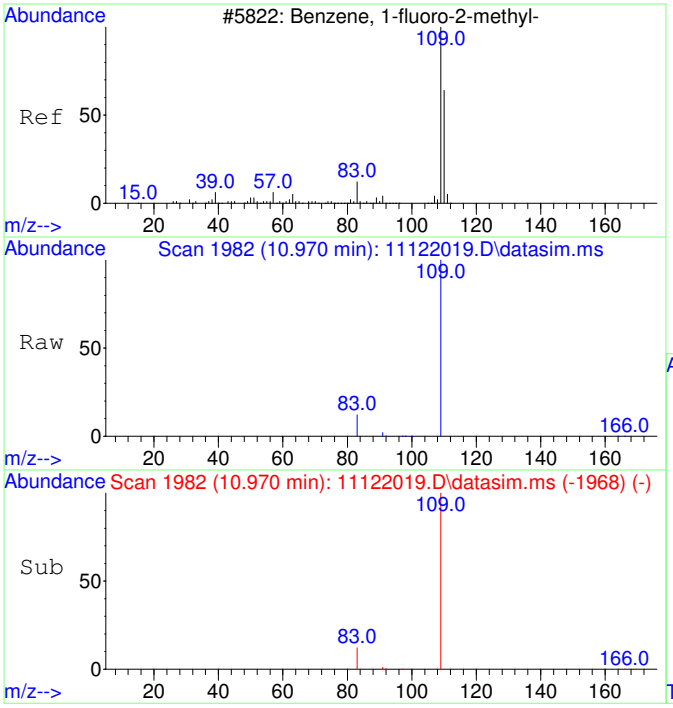


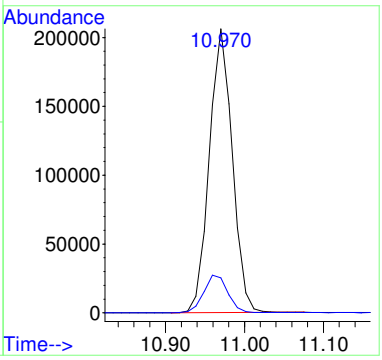
Table of Contents

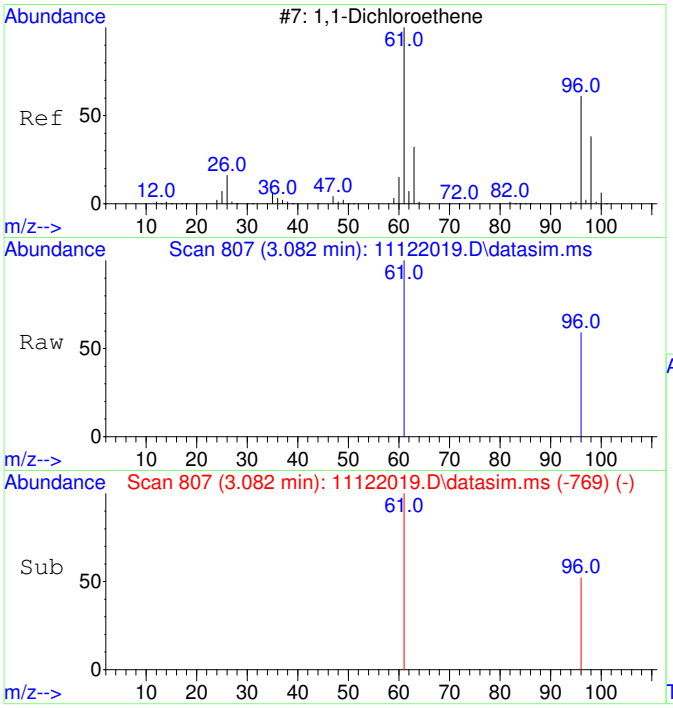


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:109 Resp: 416194

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

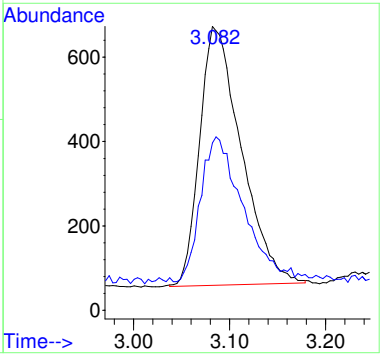


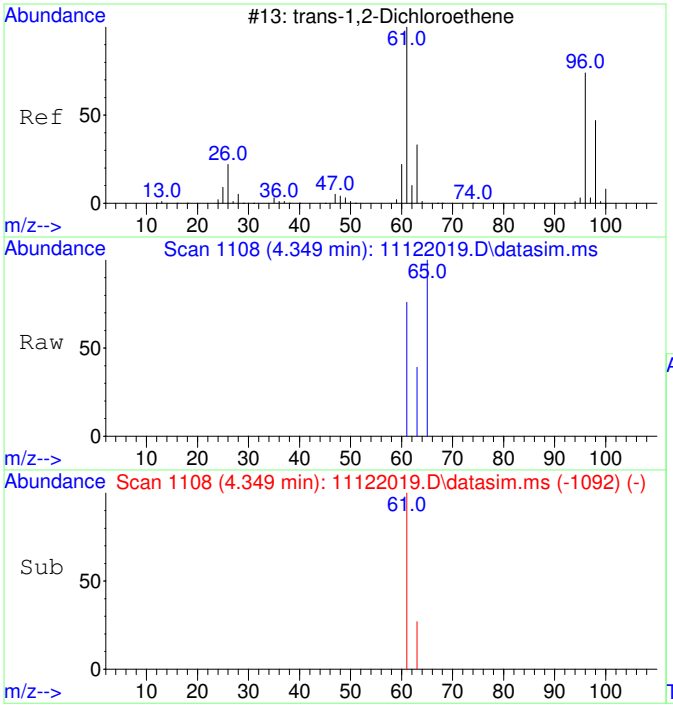


#2
1,1-Dichloroethene
Concen: 110.84 ug/L m
RT: 3.082 min Scan# 807
Delta R.T. -0.008 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 61 Resp: 1842

Ion	Ratio	Lower	Upper
61	100		
96	57.8	37.2	97.2

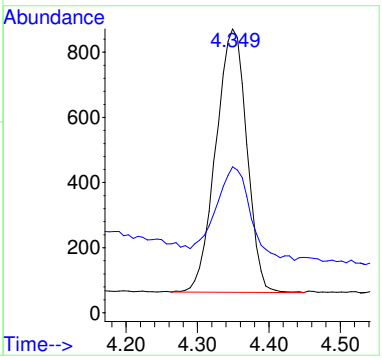


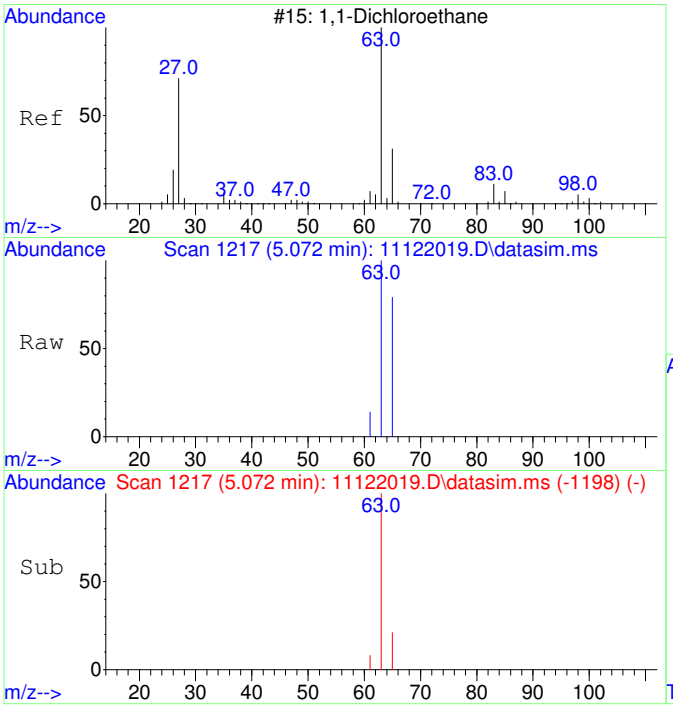


#3
trans-1,2-Dichloroethene
Concen: 126.92 ug/L
RT: 4.349 min Scan# 1108
Delta R.T. -0.046 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 61 Resp: 2437

Ion	Ratio	Lower	Upper
61	100		
63	40.7	2.4	62.4

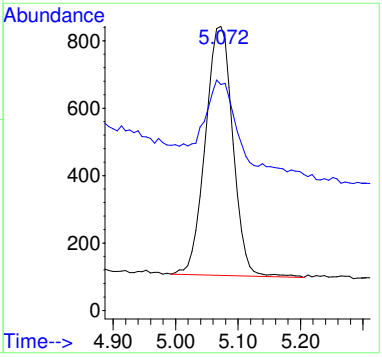


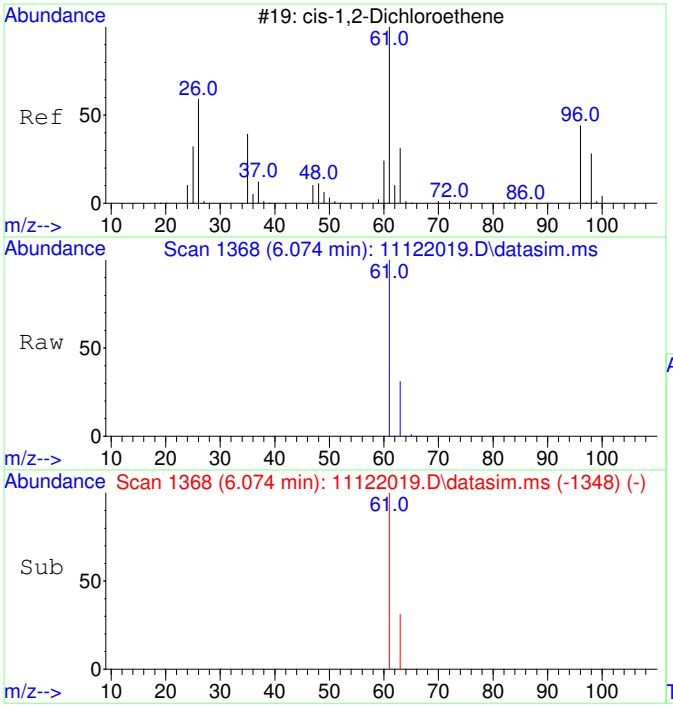


#4
1,1-Dichloroethane
Concen: 94.47 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. -0.026 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 63 Resp: 2258

Ion	Ratio	Lower	Upper
63	100		
65	39.3	1.8	61.8

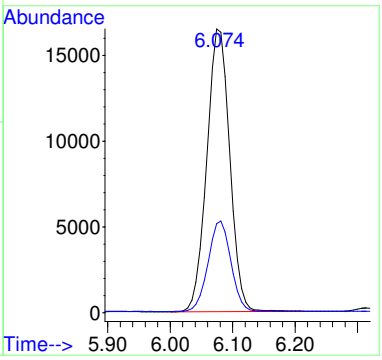


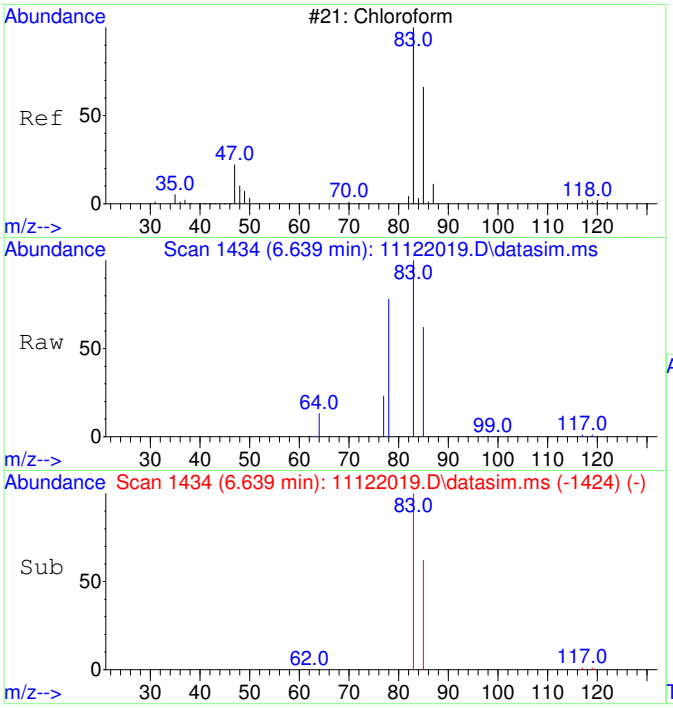


#5
cis-1,2-Dichloroethene
Concen: 1663.55 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.020 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 61 Resp: 41972

Ion	Ratio	Lower	Upper
61	100		
63	31.6	2.5	62.5

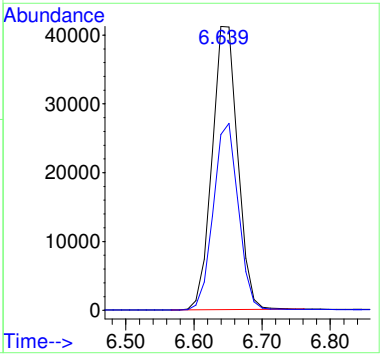


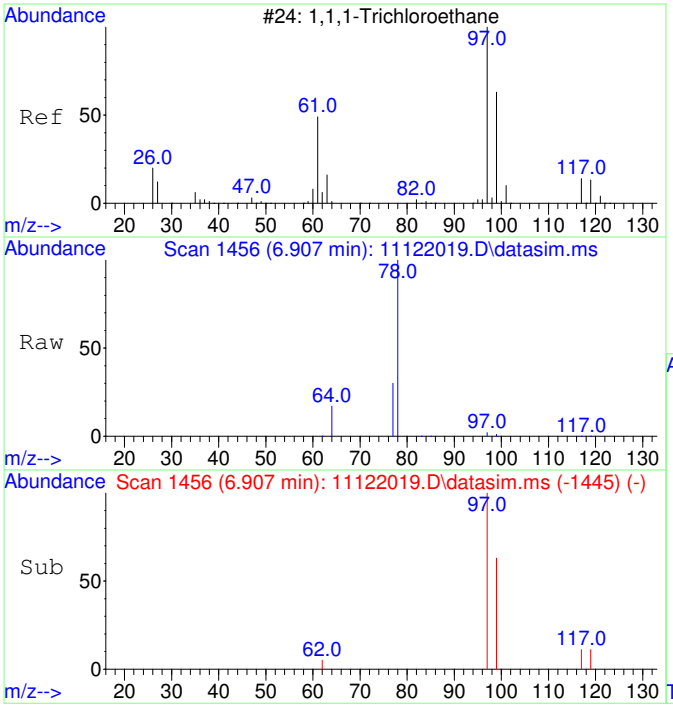


#6
Chloroform
Concen: 4146.50 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.024 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 83 Resp: 107080

Ion	Ratio	Lower	Upper
83	100		
85	64.3	35.1	95.1

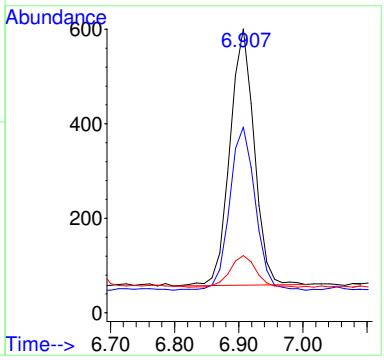


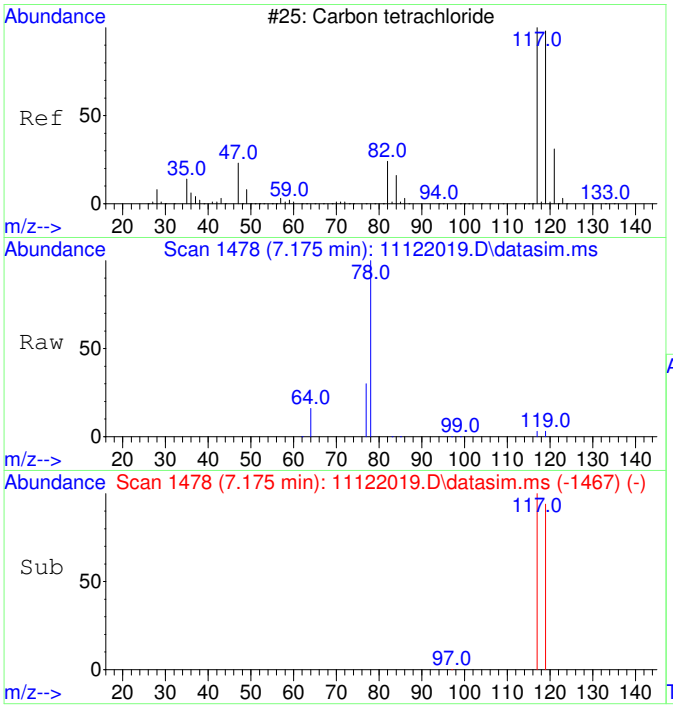


#7
1,1,1-Trichloroethane
Concen: 50.77 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 97 Resp: 1424

Ion	Ratio	Lower	Upper
97	100		
99	67.1	34.6	94.6
117	13.6	0.0	43.2

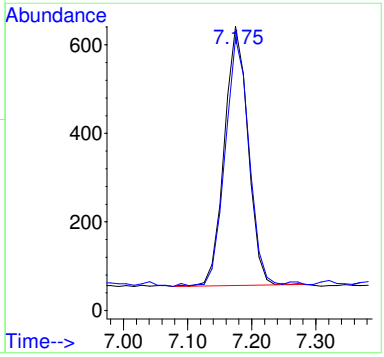


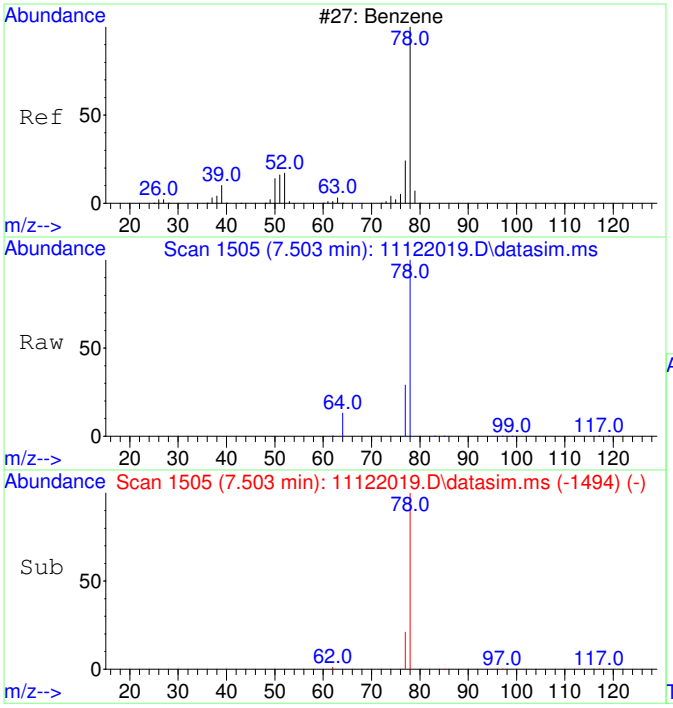


#8
Carbon tetrachloride
Concen: 56.60 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:117 Resp: 1494

Ion	Ratio	Lower	Upper
117	100		
119	95.5	66.4	126.4

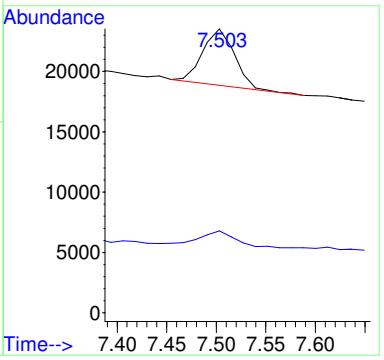


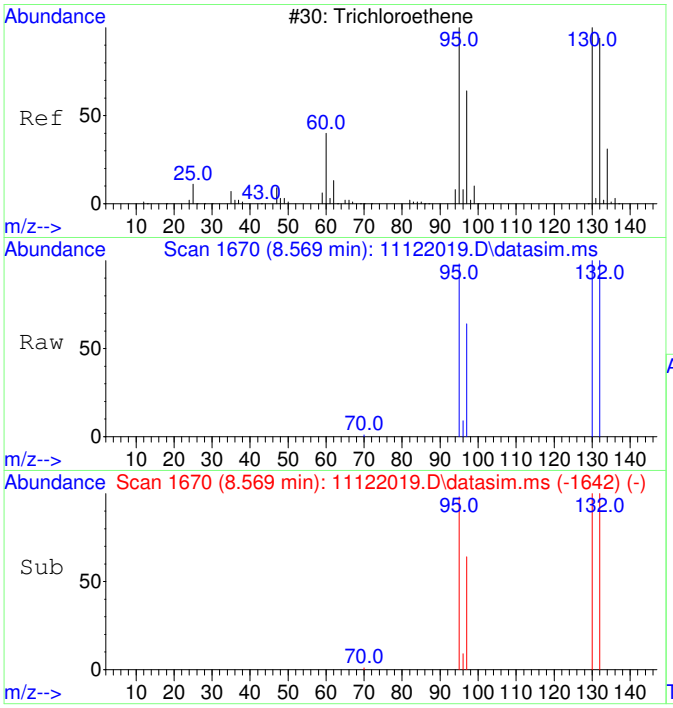


#9
Benzene
Concen: 140.93 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 78 Resp: 9966

Ion	Ratio	Lower	Upper
78	100		
77	43.7	0.0	53.2

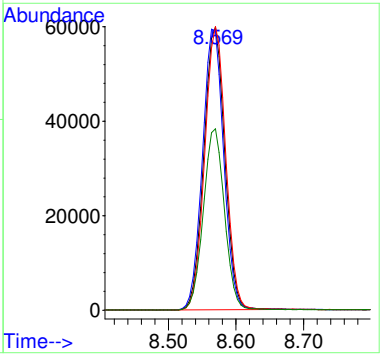


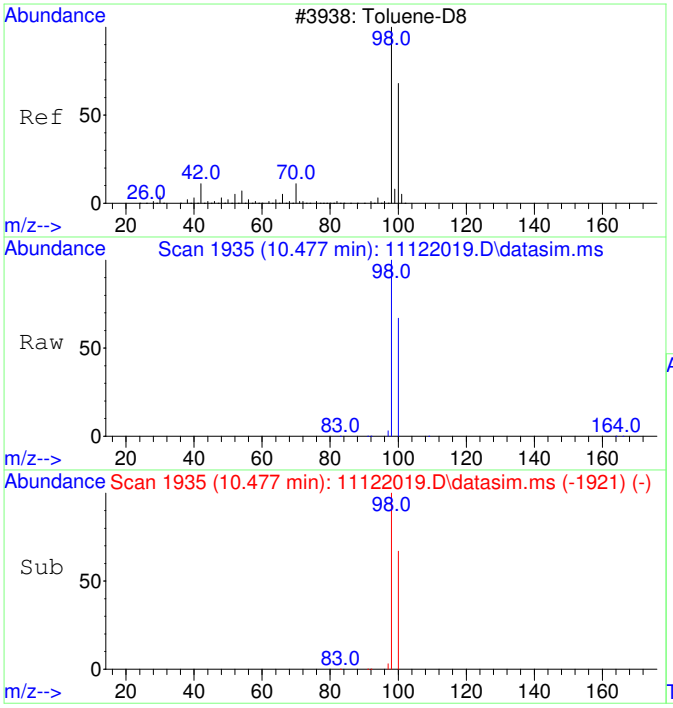


#11
Trichloroethene
Concen: 6066.56 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:130 Resp: 129163

Ion	Ratio	Lower	Upper
130	100		
95	100.4	60.7	120.7
132	99.9	76.0	116.0
97	64.2	38.6	78.6

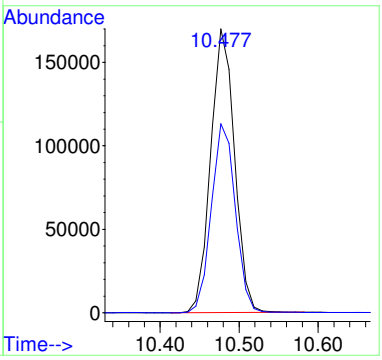


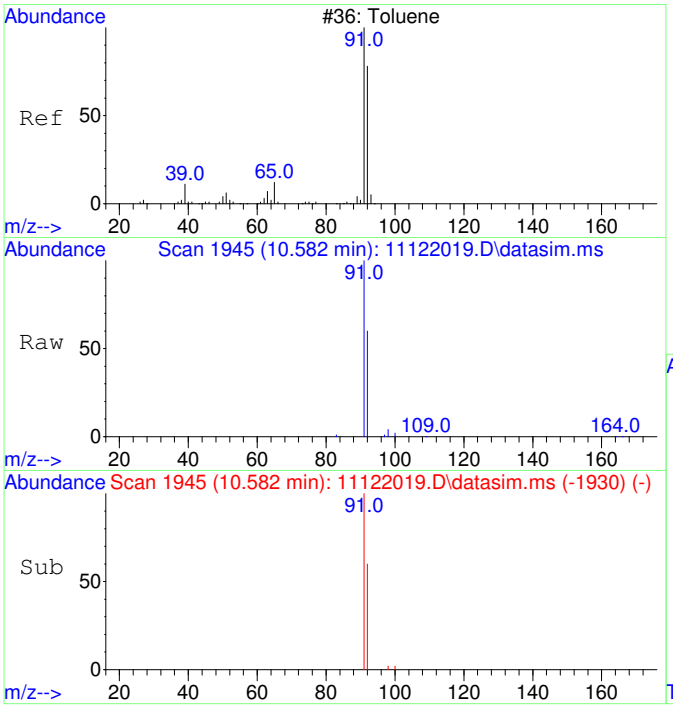


#12
Toluene-d8
Concen: 4377.86 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 98 Resp: 356684

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.1	97.1

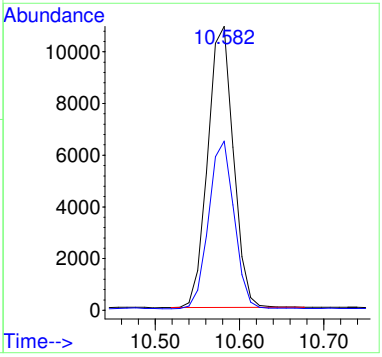


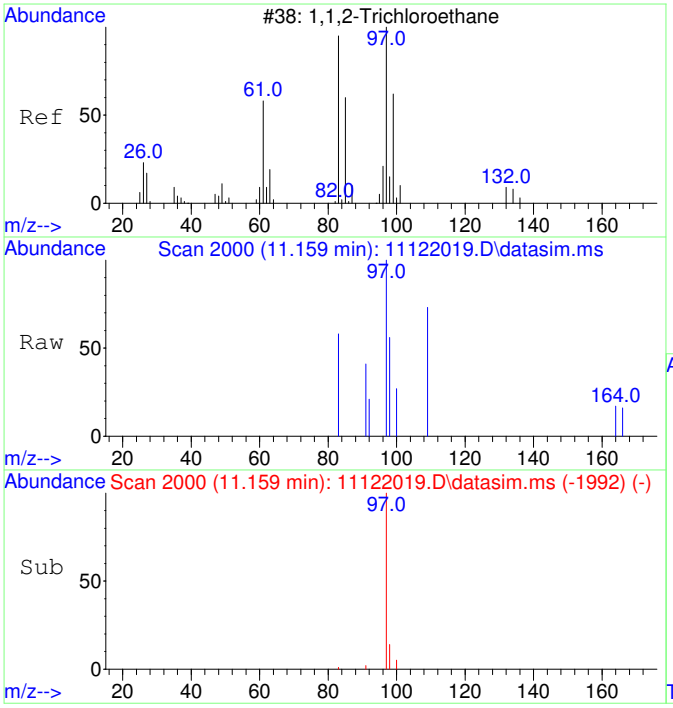


#13
Toluene
Concen: 222.16 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 23076

Ion	Ratio	Lower	Upper
91	100		
92	59.0	29.9	89.9

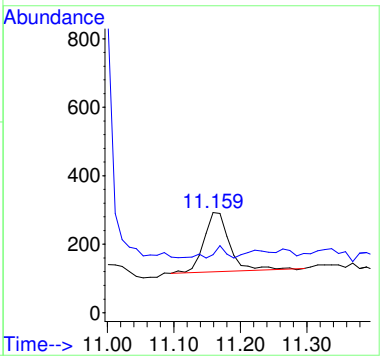


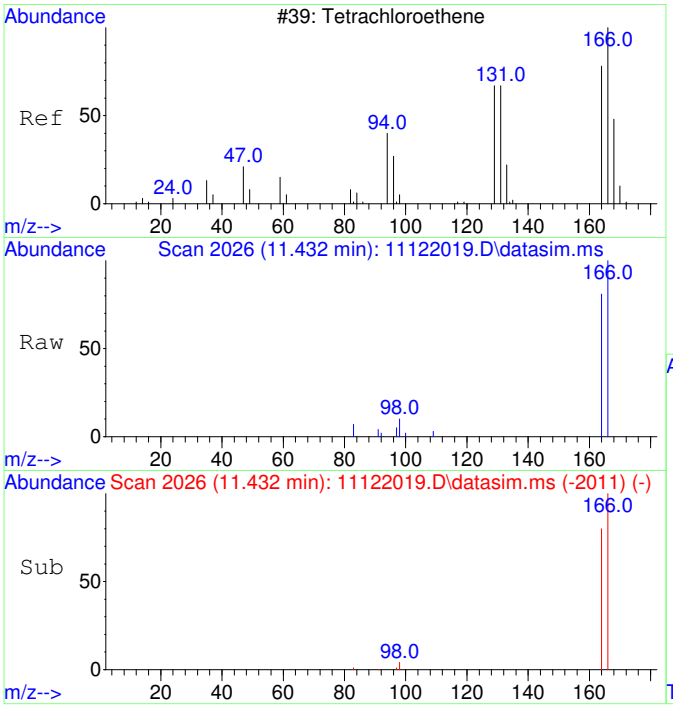


#14
1,1,2-Trichloroethane
Concen: 20.63 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 97 Resp: 467

Ion	Ratio	Lower	Upper
97	100		
83	9.9	51.2	111.2#

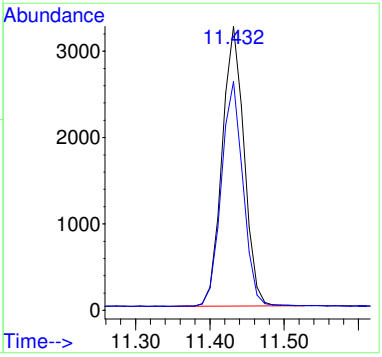


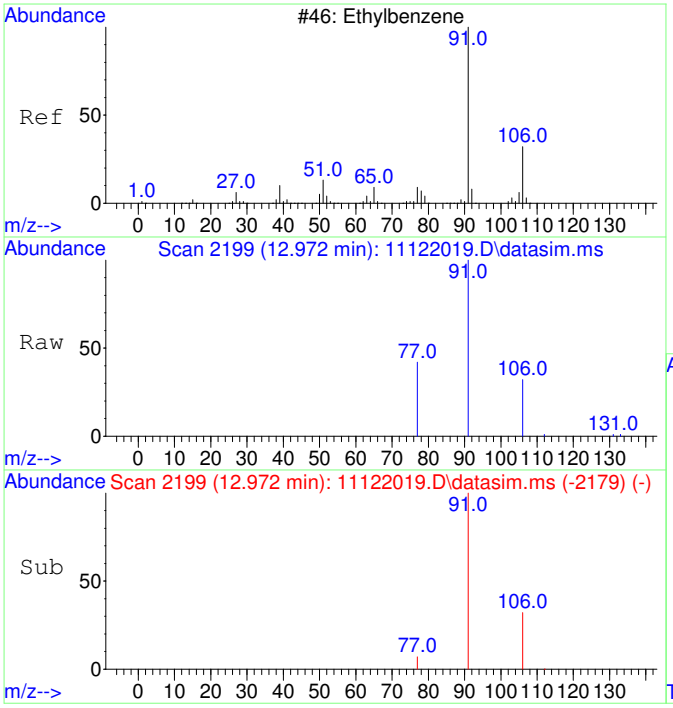


#15
Tetrachloroethene
Concen: 220.06 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:166 Resp: 6615

Ion	Ratio	Lower	Upper
166	100		
164	79.1	47.8	107.8

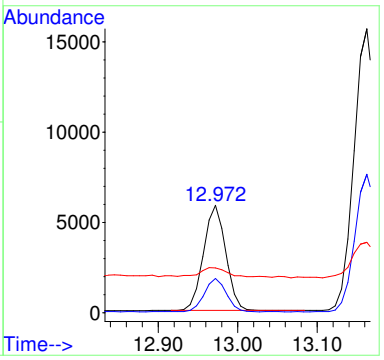


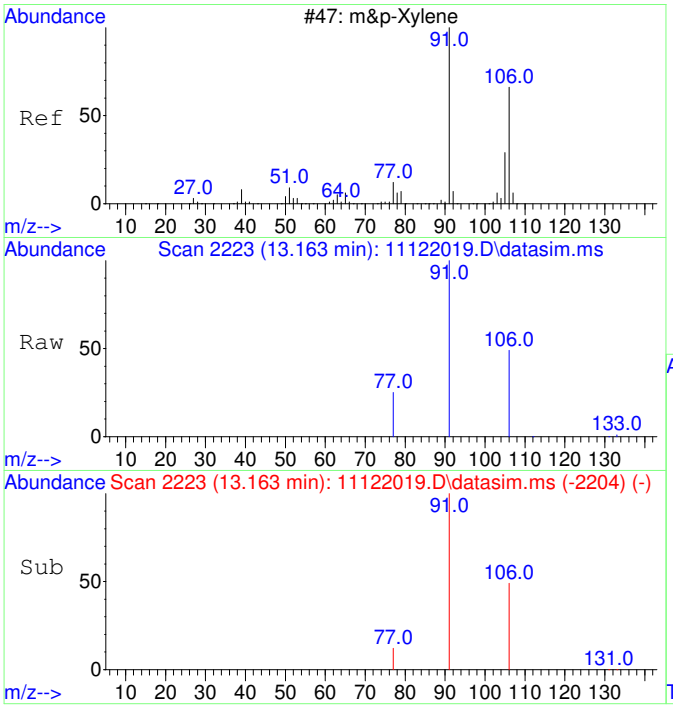


#18
Ethylbenzene
Concen: 89.30 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 11290

Ion	Ratio	Lower	Upper
91	100		
106	31.6	3.0	63.0
77	12.7	0.0	38.2

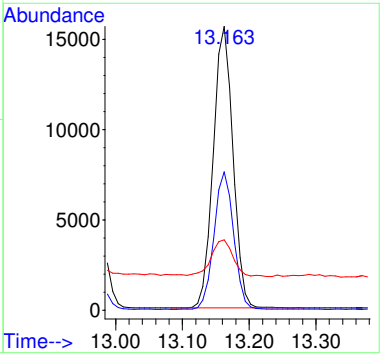


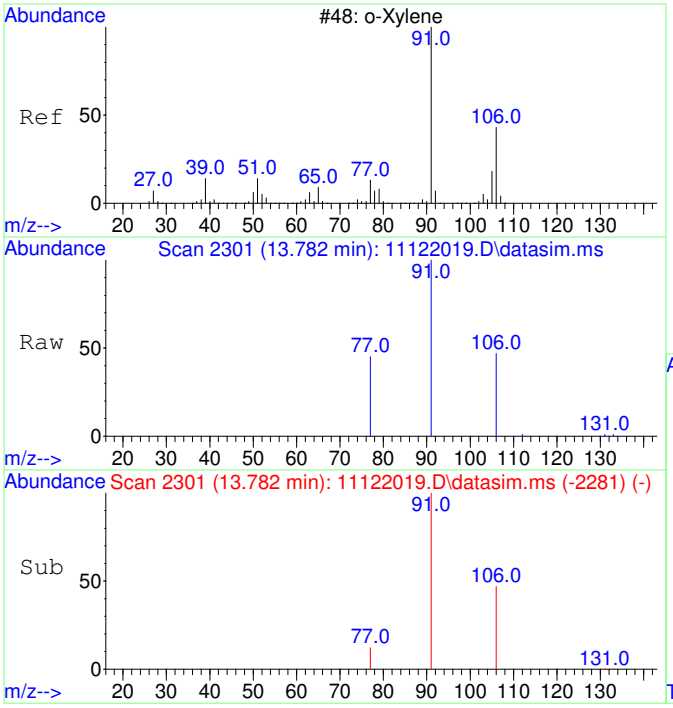


#19
m&p-Xylene
Concen: 322.20 ug/L
RT: 13.163 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 31839

Ion	Ratio	Lower	Upper
91	100		
106	48.6	22.2	82.2
77	14.7	0.0	42.4

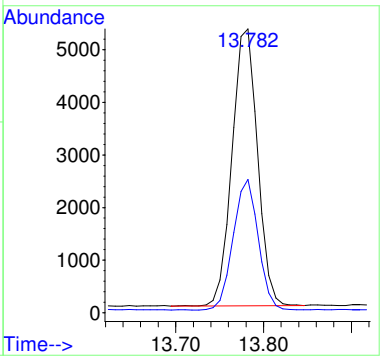


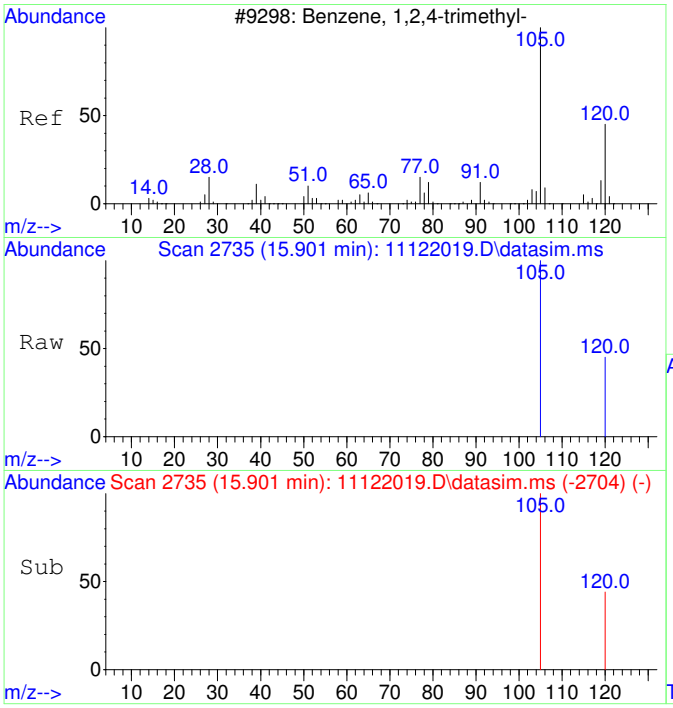


#20
o-Xylene
Concen: 100.08 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 10566

Ion	Ratio	Lower	Upper
91	100		
106	46.4	19.2	79.2

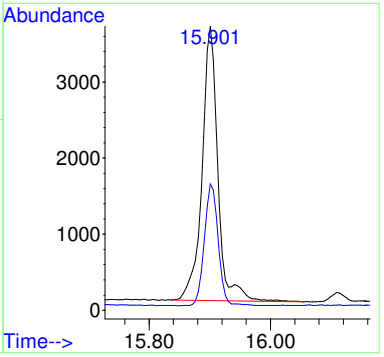


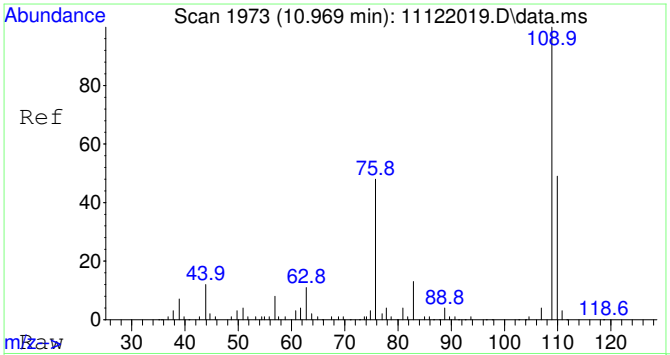


#23
1,2,4-Trimethylbenzene
Concen: 55.98 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:105 Resp: 6534

Ion	Ratio	Lower	Upper
105	100		
120	38.6	17.2	77.2

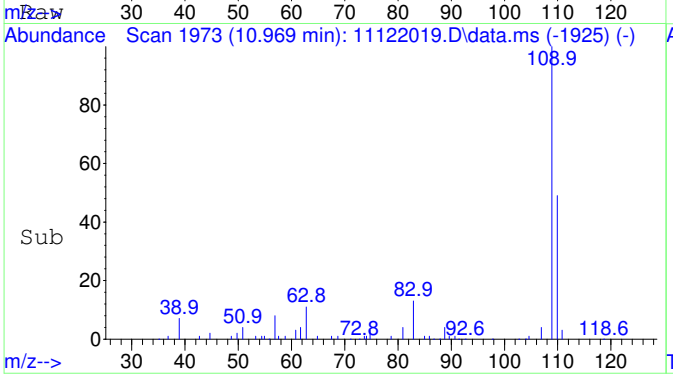


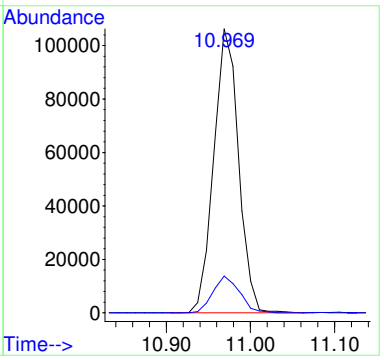


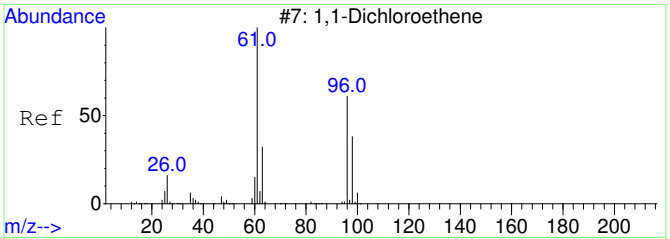
#25
2-Fluorotoluene SCAN
Concen: 5368.26 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:109 Resp: 217797

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	43.8



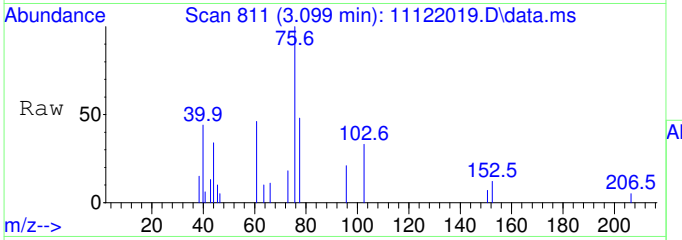


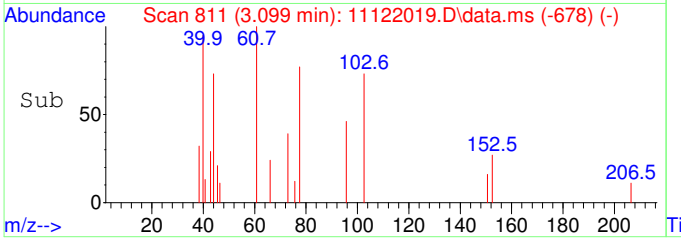


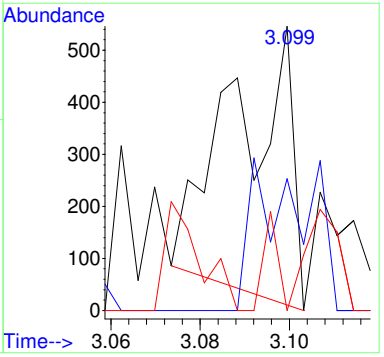
#26
1,1-Dichloroethene SCAN
Concen: 54.66 ug/L
RT: 3.099 min Scan# 811
Delta R.T. -0.008 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

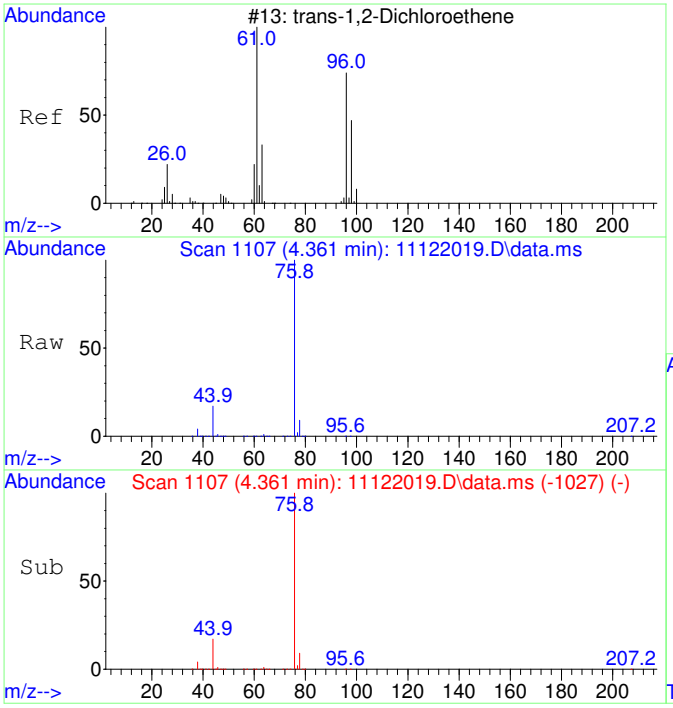
Tgt Ion: 61 Resp: 471

Ion	Ratio	Lower	Upper
61	100		
96	51.8	33.1	93.1
98	21.4	11.2	71.2





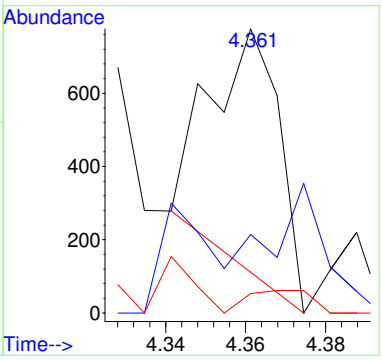


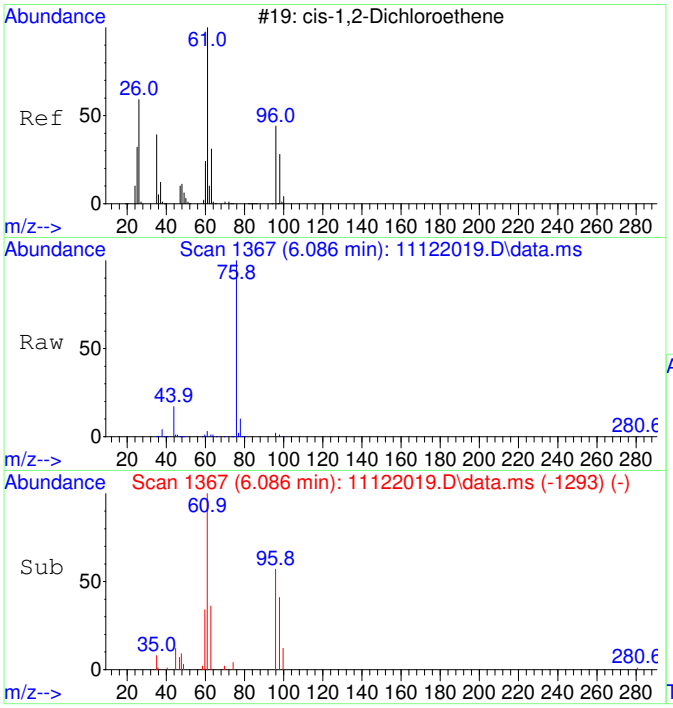


#27
trans-1,2-Dichloroethene SCAN
Concen: 69.03 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. -0.040 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 61 Resp: 736

Ion	Ratio	Lower	Upper
61	100		
96	29.3	49.0	109.0#
98	9.5	20.5	80.5#

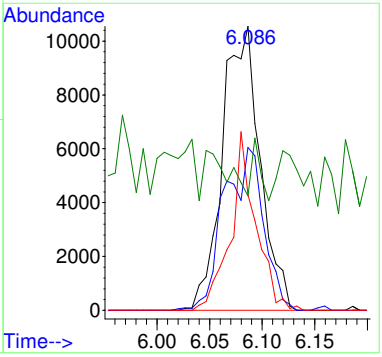


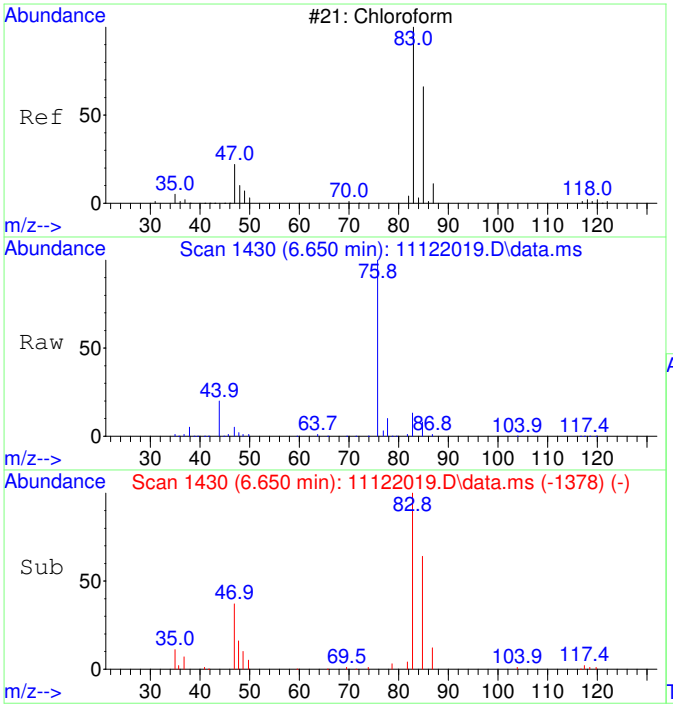


#29
cis-1,2-Dichloroethene SCAN
Concen: 1985.46 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 61 Resp: 26248

Ion	Ratio	Lower	Upper
61	100		
96	60.3	39.9	99.9
98	41.6	13.5	73.5
64	4.4	4.5	64.5#

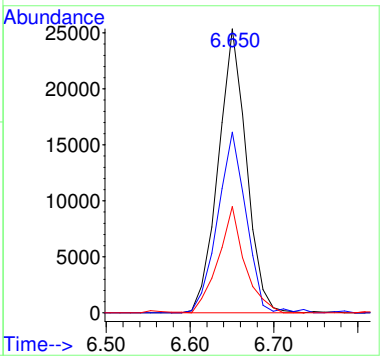


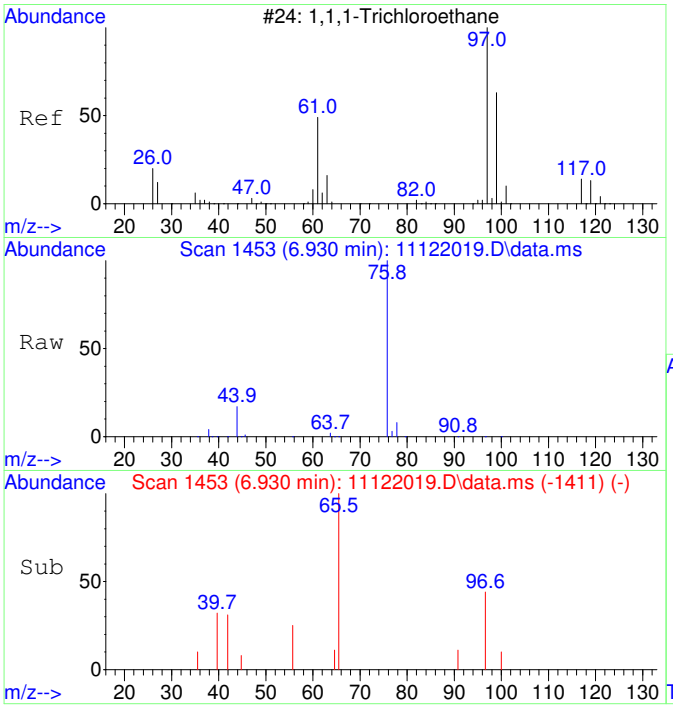


#30
Chloroform SCAN
Concen: 4106.61 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 83 Resp: 58885

Ion	Ratio	Lower	Upper
83	100		
85	64.6	34.6	94.6
47	35.3	0.0	53.4

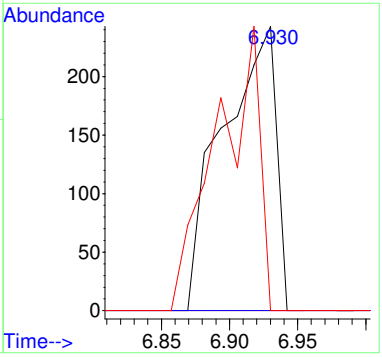


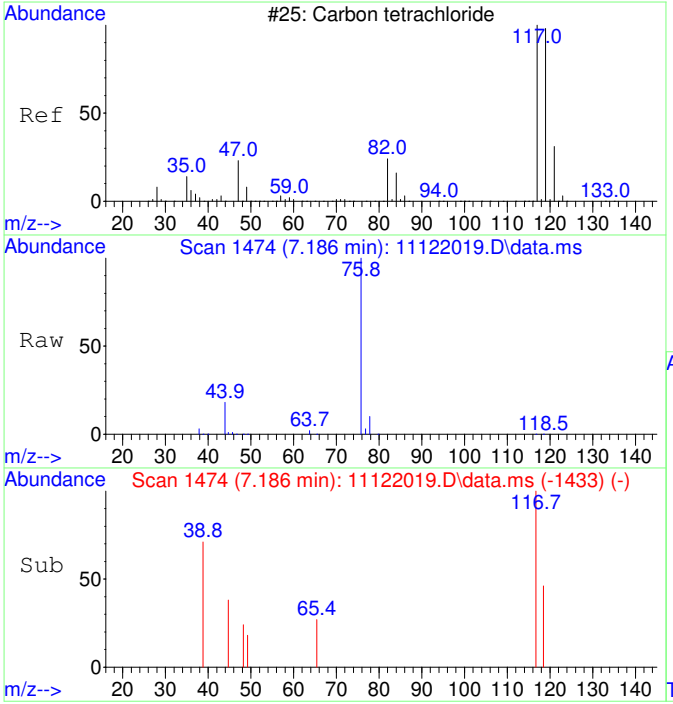


#31
1,1,1-Trichloroethane SCAN
Concen: 50.82 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. 0.012 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 97 Resp: 664

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	80.1	18.0	78.0#

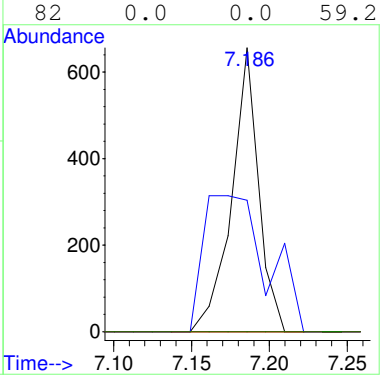


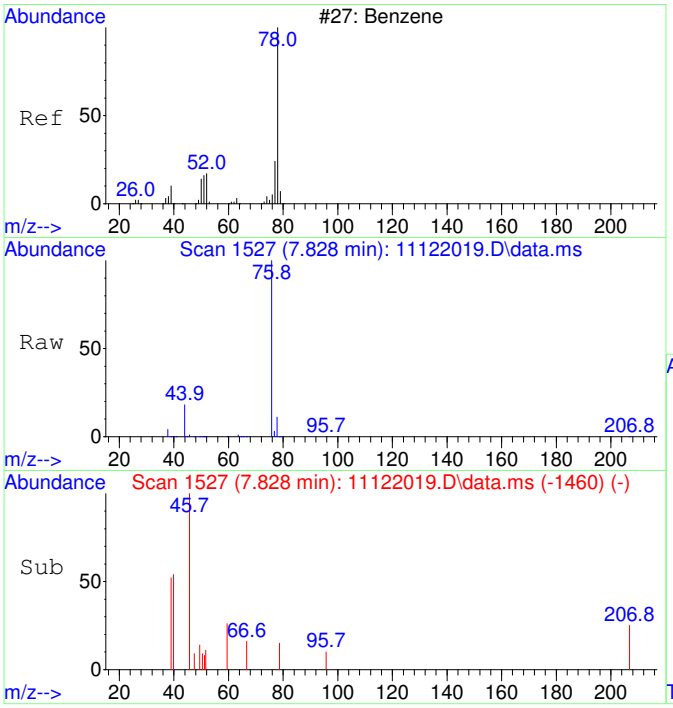


#32
Carbon tetrachloride SCAN
Concen: 58.11 ug/L
RT: 7.186 min Scan# 1474
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:117 Resp: 792

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

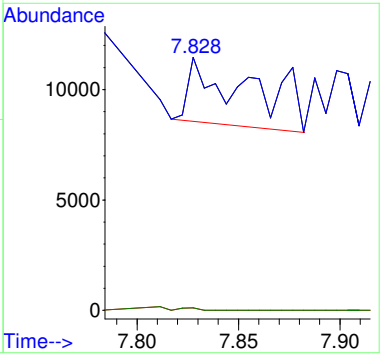


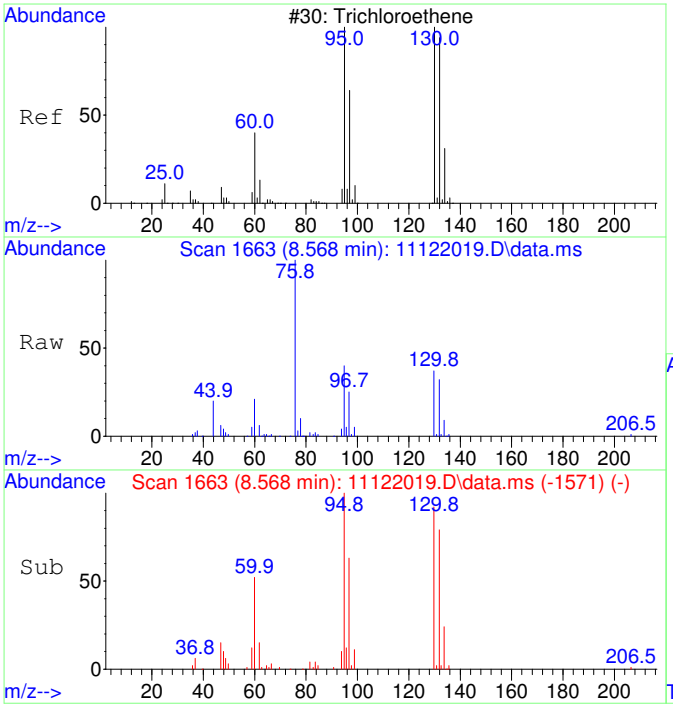


#33
Benzene SCAN
Concen: 171.80 ug/L
RT: 7.828 min Scan# 1527
Delta R.T. 0.314 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 78 Resp: 6181

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	2.7	0.0	47.9
51	2.7	0.0	44.1

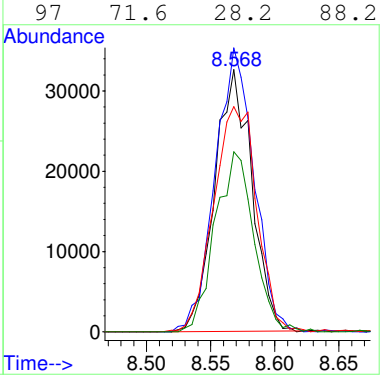


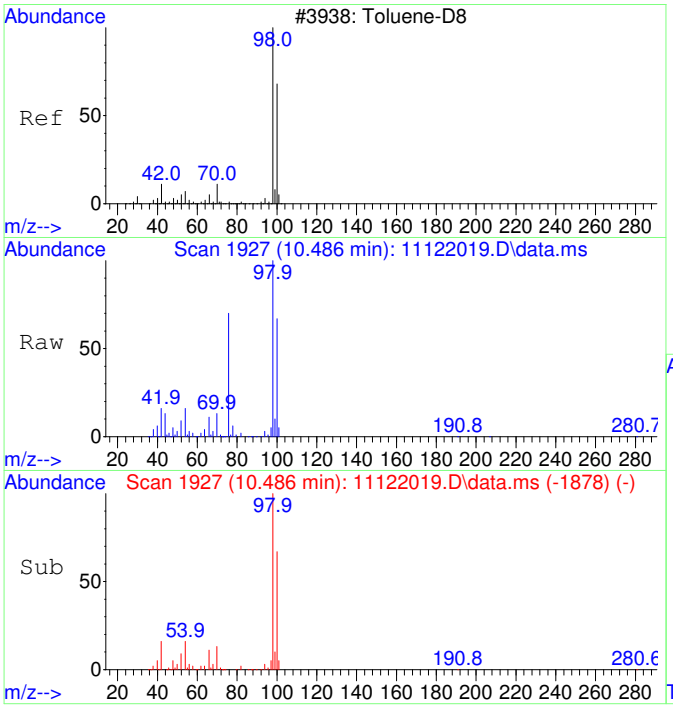


#35
Trichloroethene SCAN
Concen: 6618.57 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:130 Resp: 65438

Ion	Ratio	Lower	Upper
130	100		
95	114.0	60.5	120.5
132	100.6	59.6	119.6
97	71.6	28.2	88.2

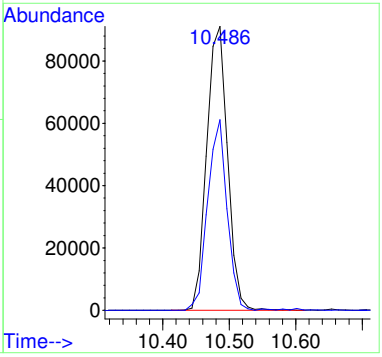


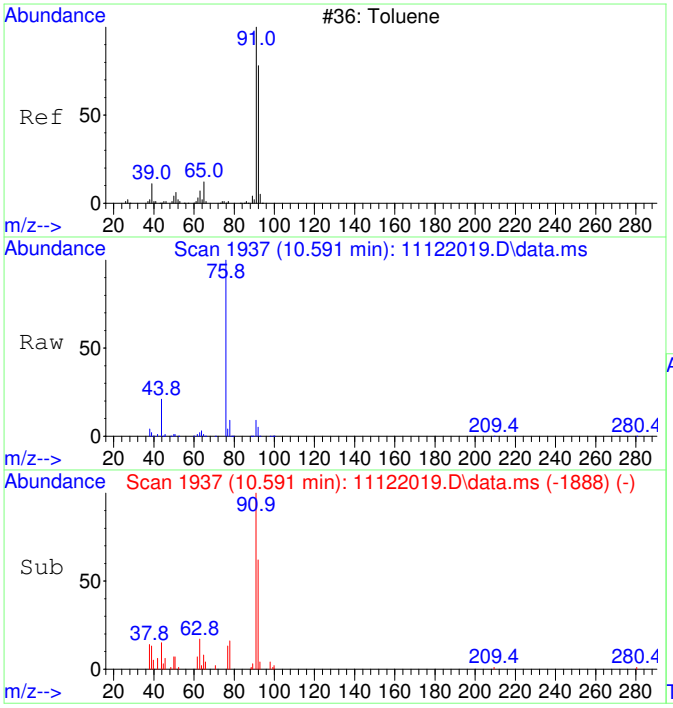


#36
Toluene-d8 SCAN
Concen: 5029.68 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 98 Resp: 199565

Ion	Ratio	Lower	Upper
98	100		
100	62.5	40.0	100.0

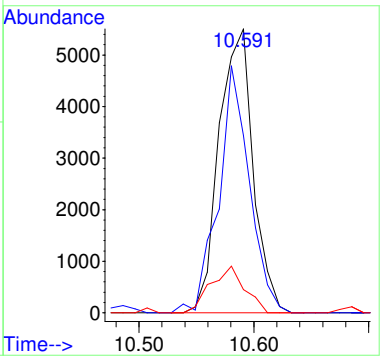


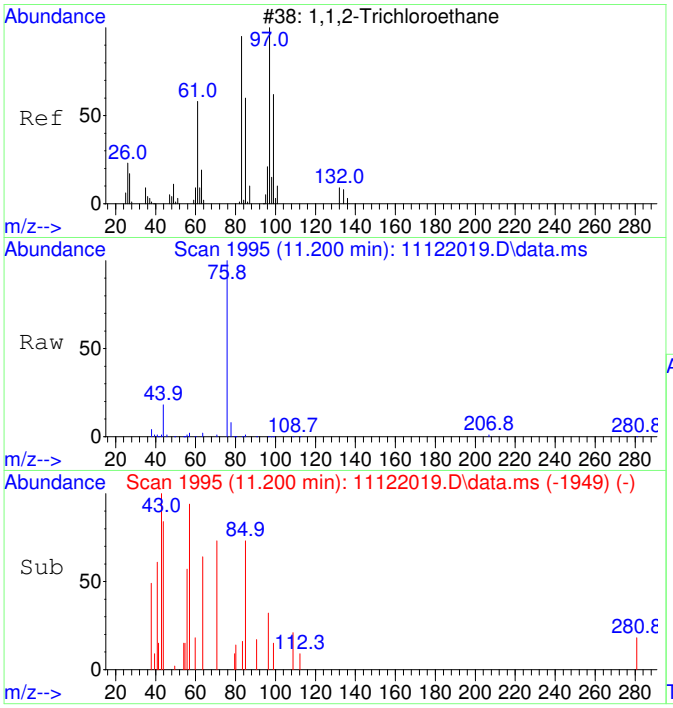


#37
Toluene SCAN
Concen: 224.02 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.011 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 11383

Ion	Ratio	Lower	Upper
91	100		
92	78.6	28.3	88.3
65	16.4	0.0	41.0

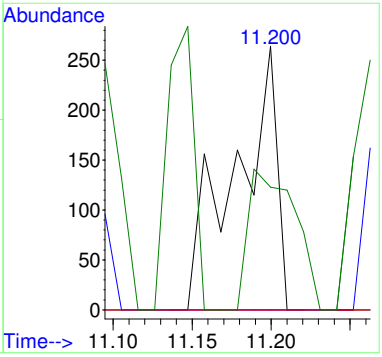


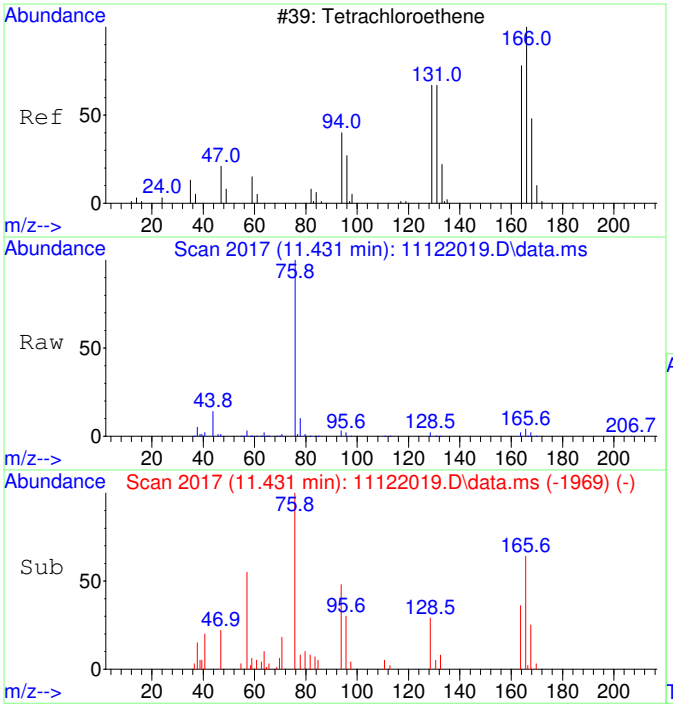


#38
1,1,2-Trichloroethane SCAN
Concen: 42.70 ug/L
RT: 11.200 min Scan# 1995
Delta R.T. -0.021 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 97 Resp: 487

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	59.8	36.7	96.7

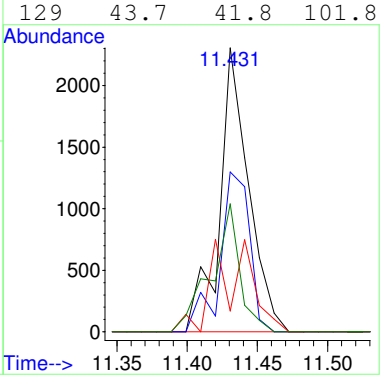


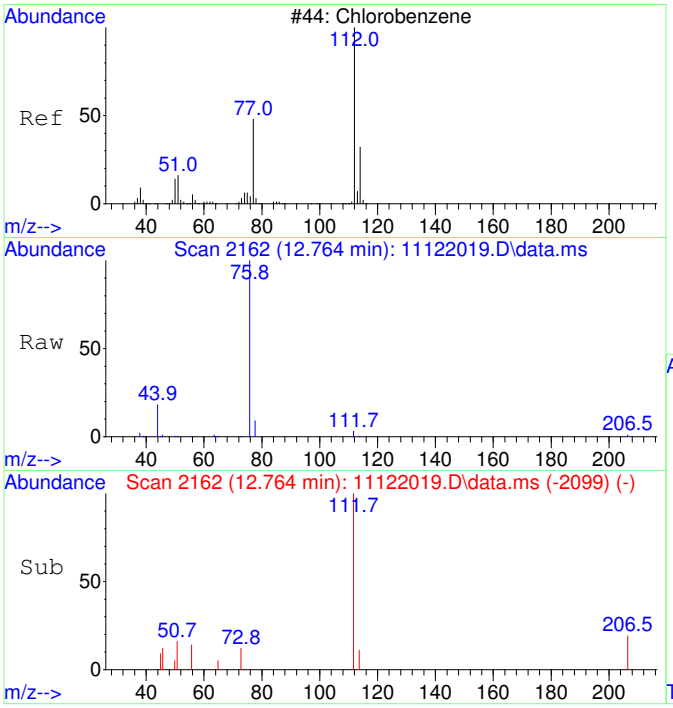


#39
Tetrachloroethene SCAN
Concen: 274.34 ug/L
RT: 11.431 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:166 Resp: 3349

Ion	Ratio	Lower	Upper
166	100		
164	56.9	50.9	110.9
131	40.0	38.7	98.7
129	43.7	41.8	101.8

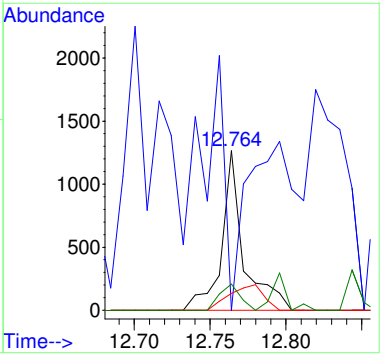


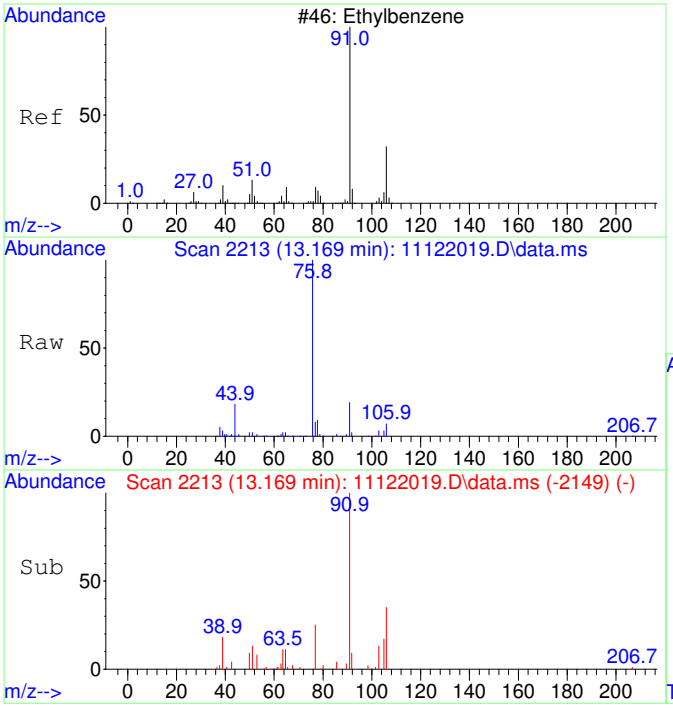


#40
Chlorobenzene SCAN
Concen: 36.55 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:112 Resp: 1269

Ion	Ratio	Lower	Upper
112	100		
77	127.0	28.2	88.2#
114	0.0	2.3	62.3#
51	15.6	0.0	50.1

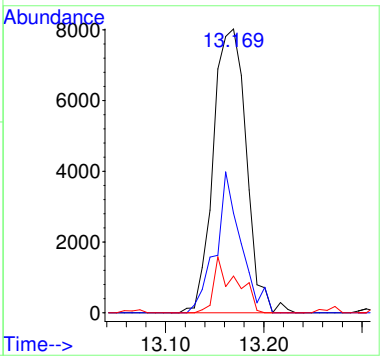


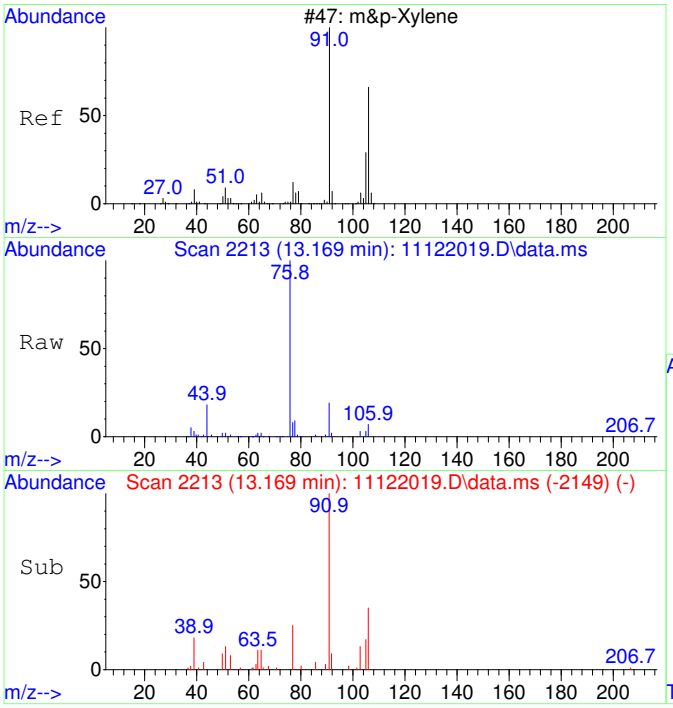


#42
Ethylbenzene SCAN
Concen: 202.13 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 18712

Ion	Ratio	Lower	Upper
91	100		
106	38.2	23.1	83.1
51	13.5	0.0	40.1

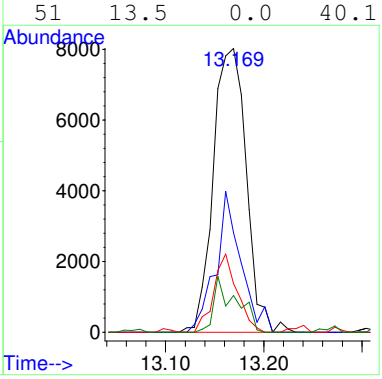


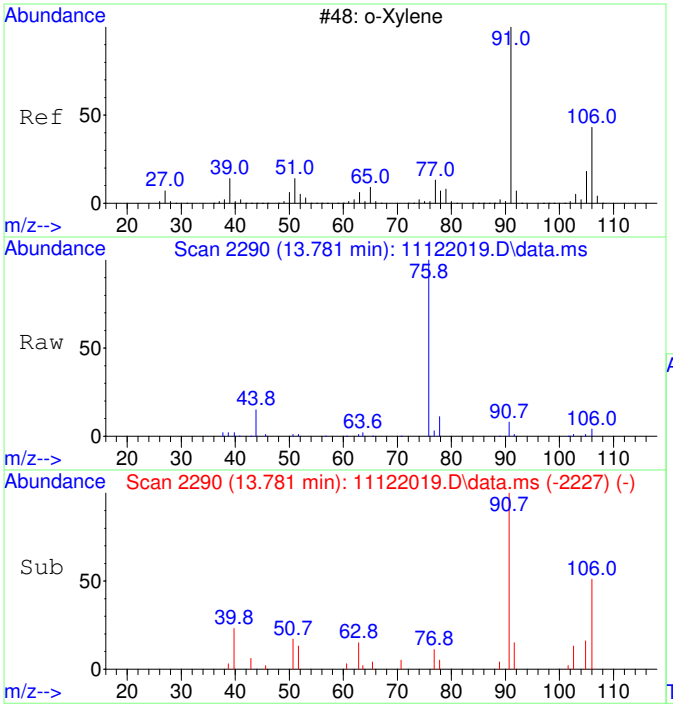


#43
m&p-Xylene SCAN
Concen: 202.13 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 18712

Ion	Ratio	Lower	Upper
91	100		
106	38.2	23.1	83.1
105	19.8	0.0	54.7
51	13.5	0.0	40.1

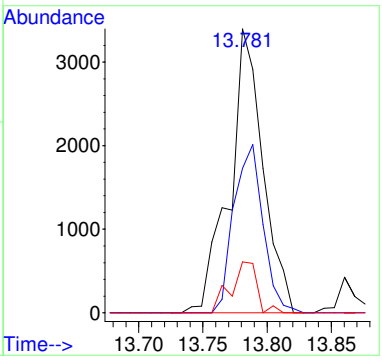


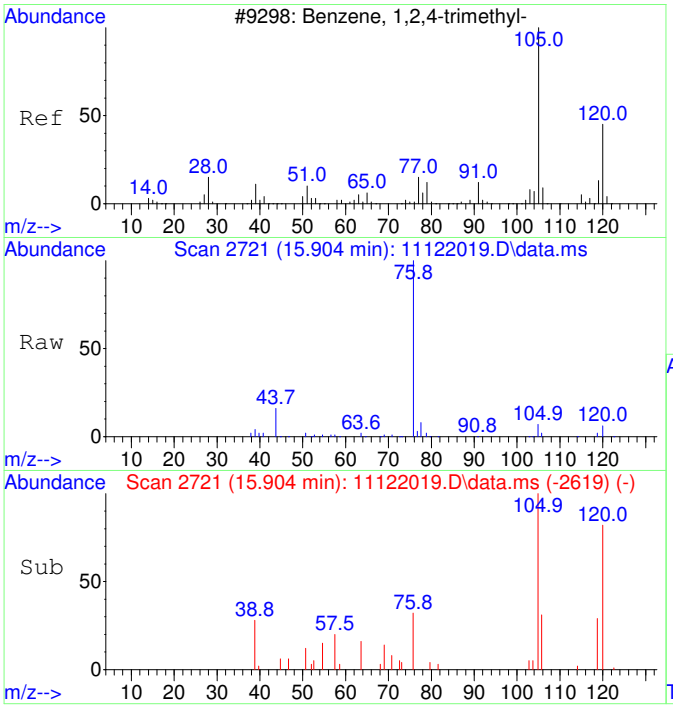


#44
o-Xylene SCAN
Concen: 123.65 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. 0.000 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion: 91 Resp: 6127

Ion	Ratio	Lower	Upper
91	100		
106	51.8	18.0	78.0
105	14.1	0.0	56.6

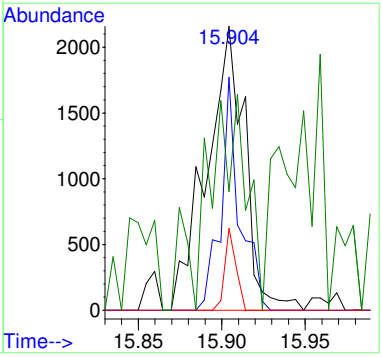




#47
1,2,4-Trimethylbenzene SCAN
Concen: 64.23 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122019.D
Acq: 12 Nov 2020 15:34

Tgt Ion:105 Resp: 3432

Ion	Ratio	Lower	Upper
105	100		
120	40.5	16.9	76.9
119	8.5	0.0	41.9
77	80.4	0.0	42.3#



2011015-12

Quantitation Report (Not Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122020.D
Acq On : 12 Nov 2020 15:57
InstName : AG5975C
Operator : TD
Sample : 2011015-12
Misc :
ALS Vial : 20 Sample Multiplier: 1

Before Manual Integration

Quant Time: Nov 13 06:13:25 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

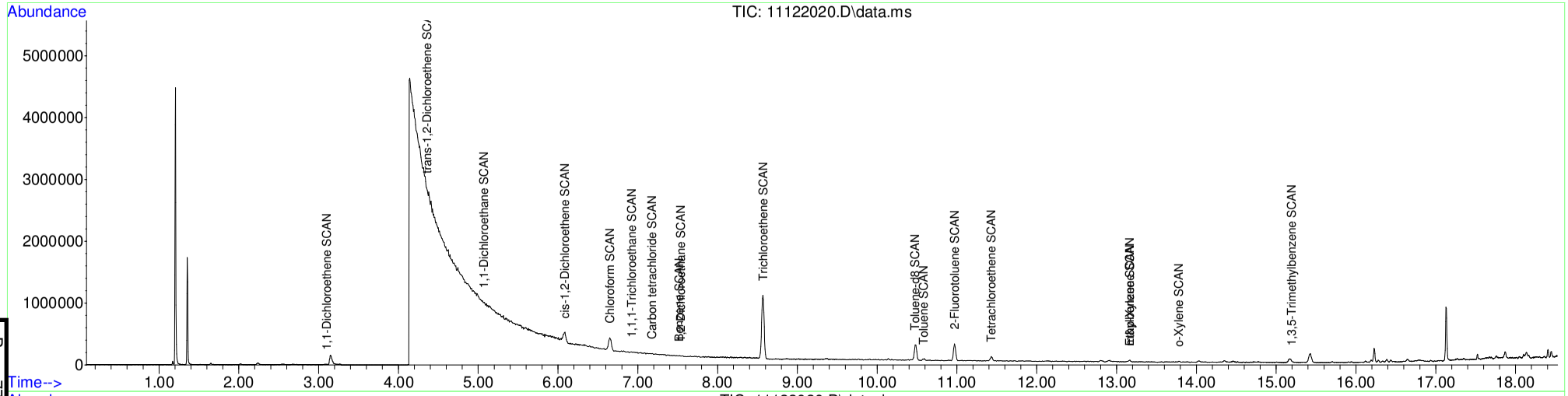
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	410559	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	350481	4360.77 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.22%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	9870	602.04 ug/L	82
3] trans-1,2-Dichloroethene	4.356	61	12437	656.60 ug/L	98
4] 1,1-Dichloroethane	5.072	63	9226	391.29 ug/L	96
5] cis-1,2-Dichloroethene	6.081	61	216907	8715.08 ug/L	99
6] Chloroform	6.652	83	321949	12638.07 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	7162	258.88 ug/L	99
8] Carbon tetrachloride	7.175	117	1941	74.54 ug/L	97
9] Benzene	7.503	78	9969	142.91 ug/L	55
10] 1,2-Dichloroethane	7.539	62	1076	43.21 ug/L #	40
11] Trichloroethene	8.569	130	712574	33927.74 ug/L OC	93
13] Toluene	10.582	91	38913	379.76 ug/L	98
14] 1,1,2-Trichloroethane	11.159	97	590	26.42 ug/L #	21
15] Tetrachloroethene	11.432	166	41907	1413.22 ug/L	99
18] Ethylbenzene	12.972	91	9701	77.78 ug/L	95
19] m&p-Xylene	13.162	91	28301	290.33 ug/L	94
20] o-Xylene	13.782	91	12146	116.63 ug/L	95
22] 1,3,5-Trimethylbenzene	15.345	105	2675	24.13 ug/L	92
23] 1,2,4-Trimethylbenzene	15.901	105	6616	57.46 ug/L	90
25) 2-Fluorotoluene SCAN	10.969	109	217938	5445.46 ug/L	97
26) 1,1-Dichloroethene SCAN	3.096	61	2390	281.19 ug/L #	61
27) trans-1,2-Dichloroethe...	4.355	61	8395	798.19 ug/L	73
28) 1,1-Dichloroethane SCAN	5.071	63	2841	233.40 ug/L	67
29) cis-1,2-Dichloroethene...	6.080	61	132656	10172.12 ug/L #	81
30) Chloroform SCAN	6.650	83	186249	13167.19 ug/L	95
31) 1,1,1-Trichloroethane ...	6.918	97	4687	363.61 ug/L	86
32) Carbon tetrachloride SCAN	7.173	117	885	65.82 ug/L	80
33) Benzene SCAN	7.514	78	18701	526.92 ug/L	93
34) 1,2-Dichloroethane SCAN	7.538	62	1058	80.73 ug/L #	65
35) Trichloroethene SCAN	8.568	130	359747	36885.16 ug/L	83
36) Toluene-d8 SCAN	10.475	98	196223	5013.33 ug/L	96
37) Toluene SCAN	10.580	91	23025	459.35 ug/L	97
39) Tetrachloroethene SCAN	11.430	166	20737	1722.01 ug/L	93
42) Ethylbenzene SCAN	13.161	91	14917	163.35 ug/L	93
43) m&p-Xylene SCAN	13.161	91	14917	163.35 ug/L	94
44) o-Xylene SCAN	13.781	91	7340	150.16 ug/L	90
46) 1,3,5-Trimethylbenzene...	15.187	105	1686	32.73 ug/L	87

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122020.D
Acq On : 12 Nov 2020 15:57
InstName : AG5975C
Operator : TD
Sample : 2011015-12
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 13 06:13:25 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



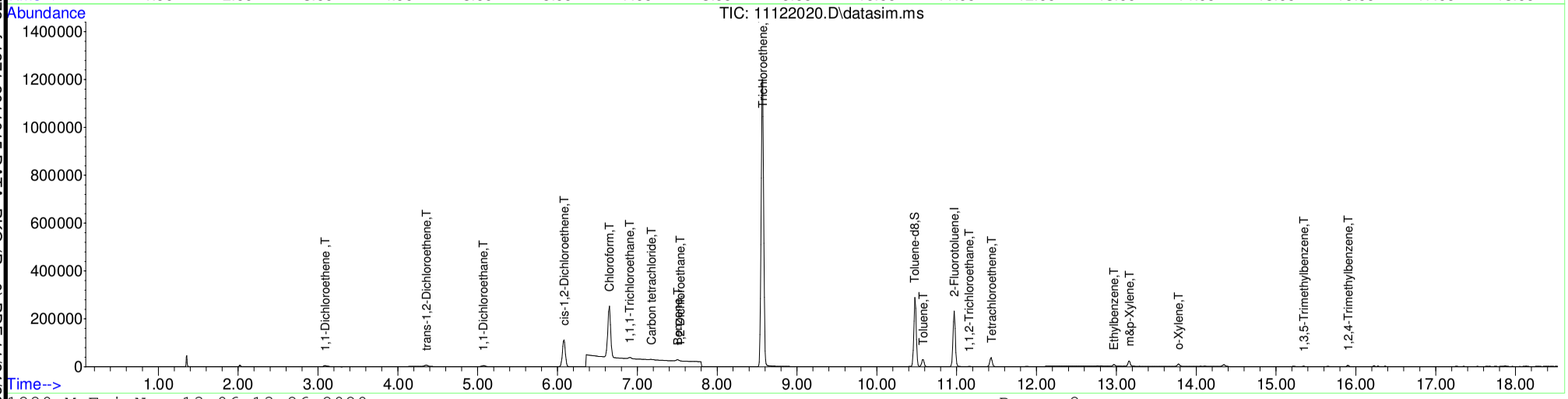
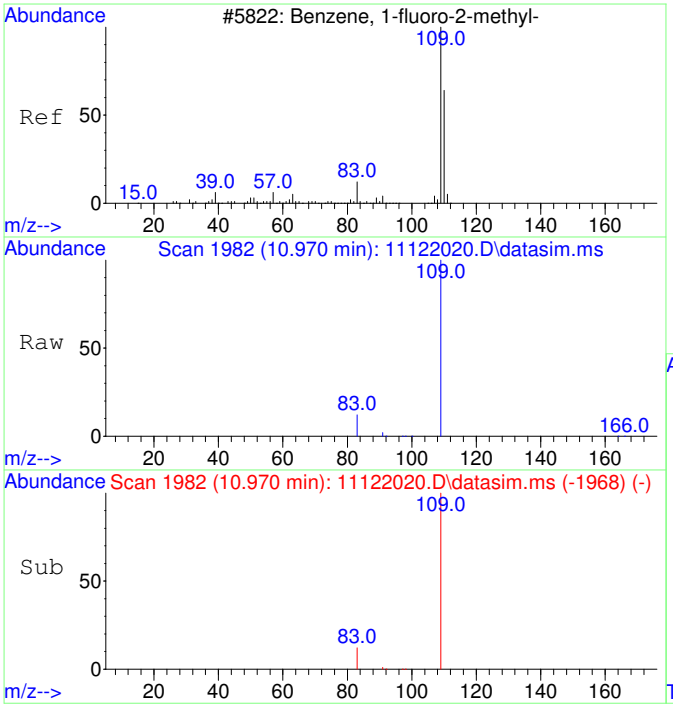


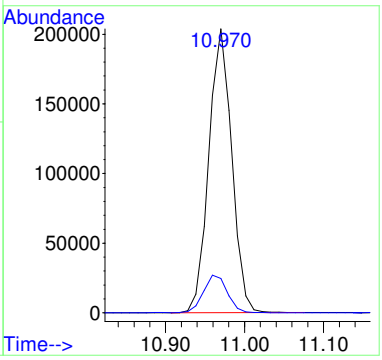
Table of Contents

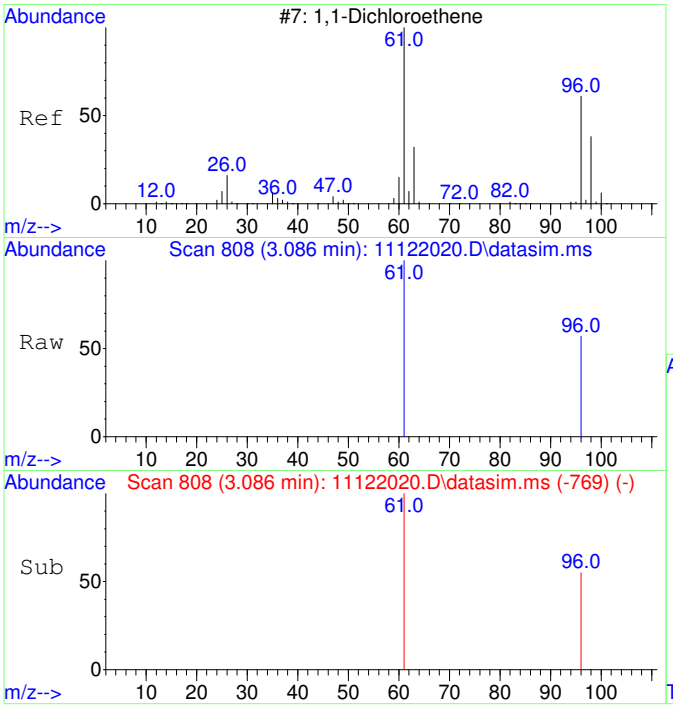


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:109 Resp: 410559

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

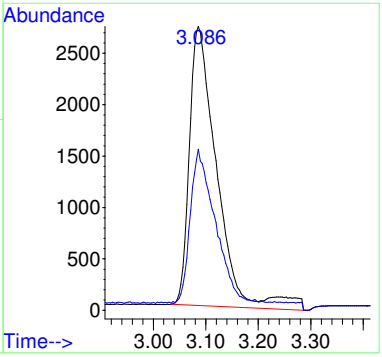




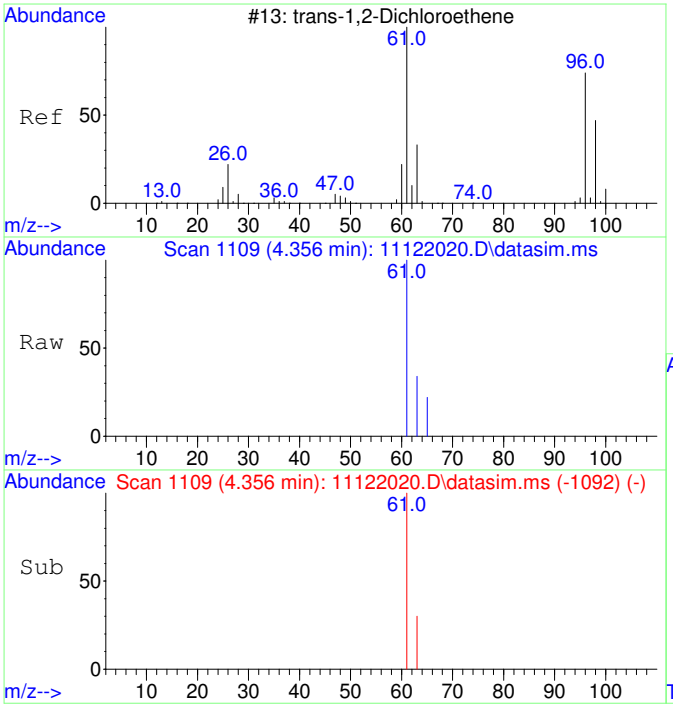
#2
1,1-Dichloroethene
Concen: 602.04 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.004 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 61 Resp: 9870

Ion	Ratio	Lower	Upper
61	100		
96	52.8	37.2	97.2



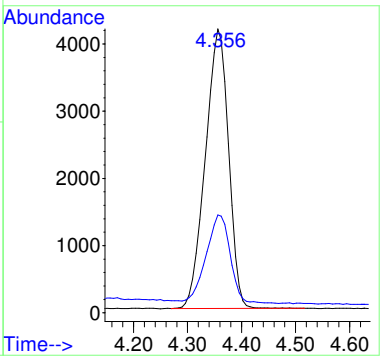
Before MI:
IMPROPER
BASELINE

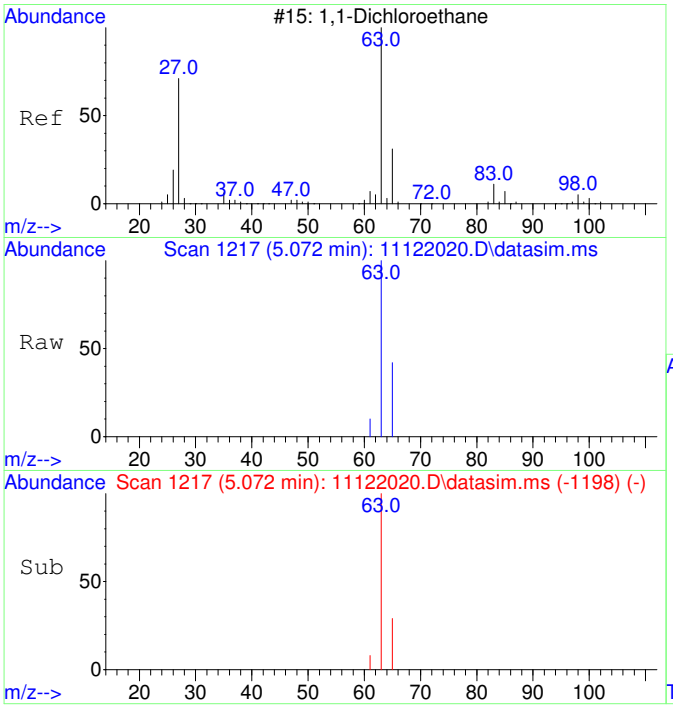


#3
trans-1,2-Dichloroethene
Concen: 656.60 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. -0.040 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 61 Resp: 12437

Ion	Ratio	Lower	Upper
61	100		
63	33.3	2.4	62.4

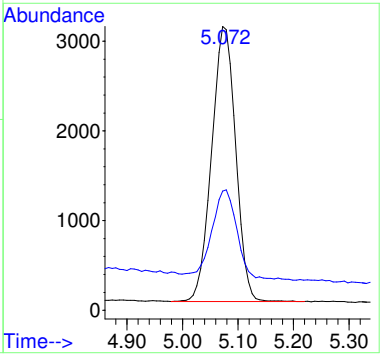


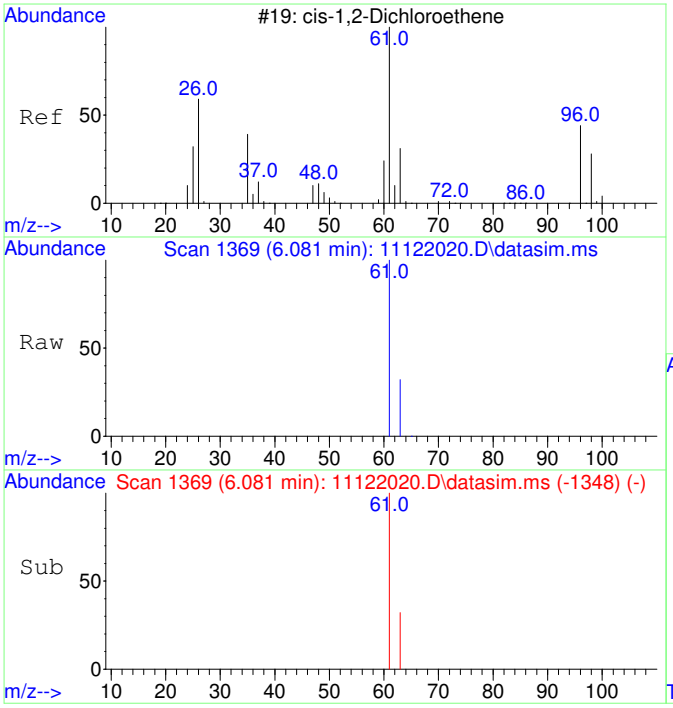


#4
1,1-Dichloroethane
Concen: 391.29 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. -0.027 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 63 Resp: 9226

Ion	Ratio	Lower	Upper
63	100		
65	34.1	1.8	61.8

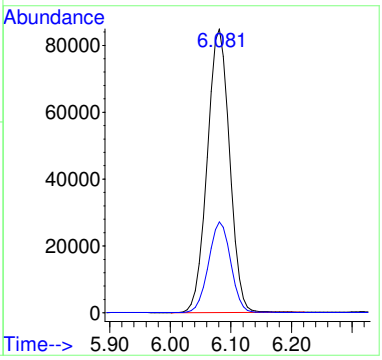


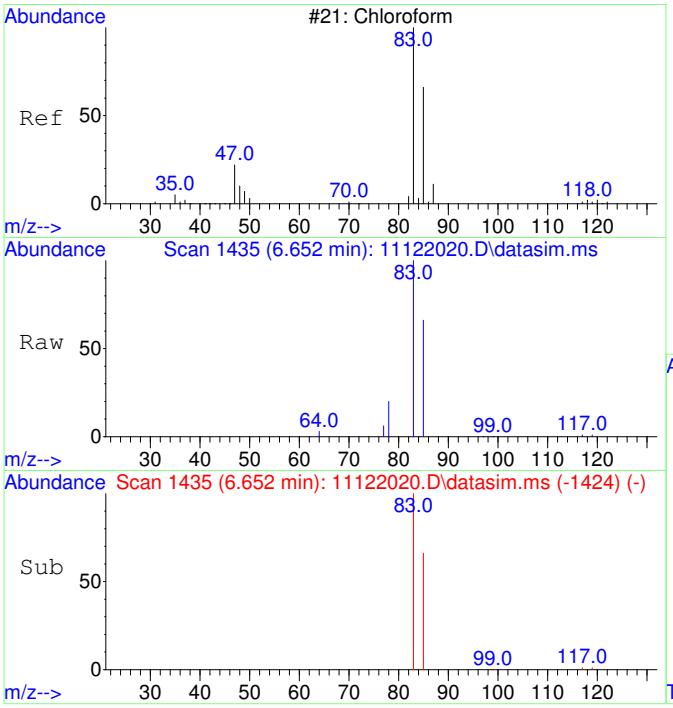


#5
cis-1,2-Dichloroethene
Concen: 8715.08 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 61 Resp: 216907

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

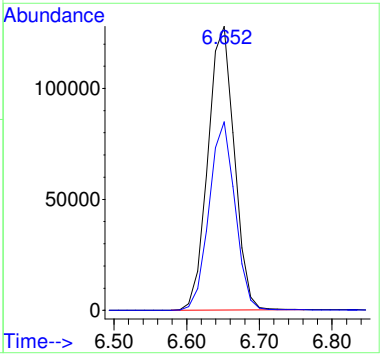


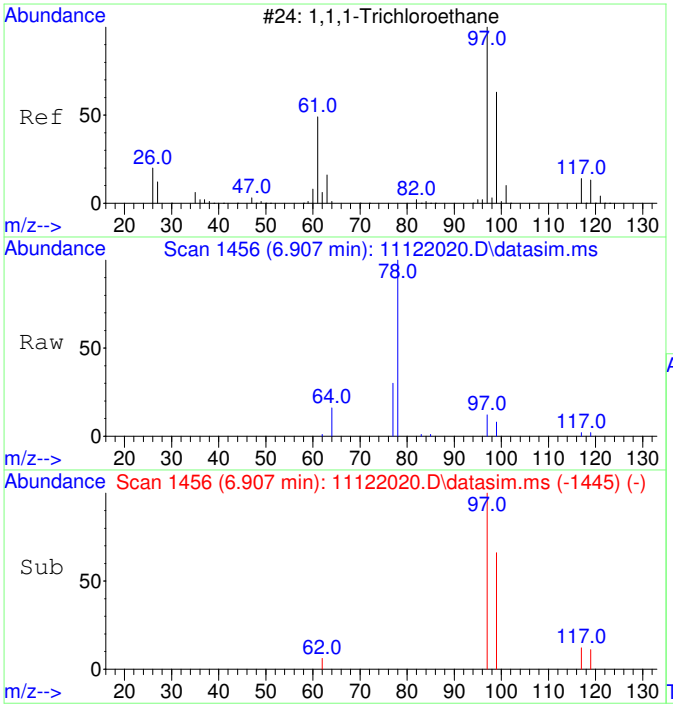


#6
Chloroform
Concen: 12638.07 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 83 Resp: 321949

Ion	Ratio	Lower	Upper
83	100		
85	65.1	35.1	95.1

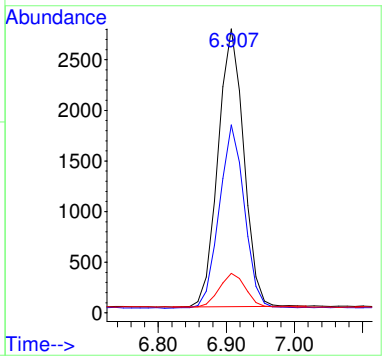


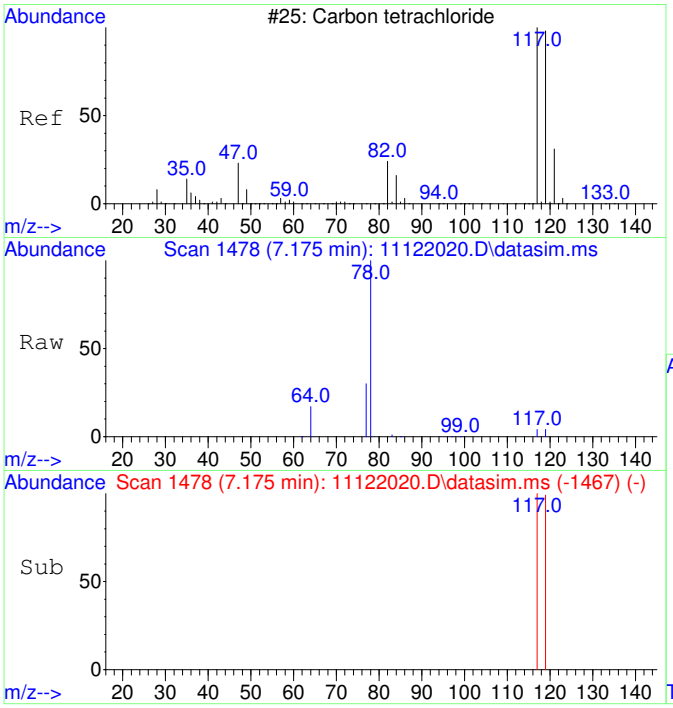


#7
1,1,1-Trichloroethane
Concen: 258.88 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 97 Resp: 7162

Ion	Ratio	Lower	Upper
97	100		
99	64.5	34.6	94.6
117	12.3	0.0	43.2

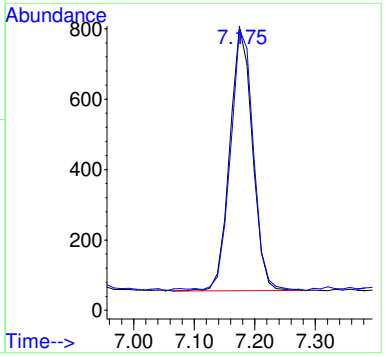


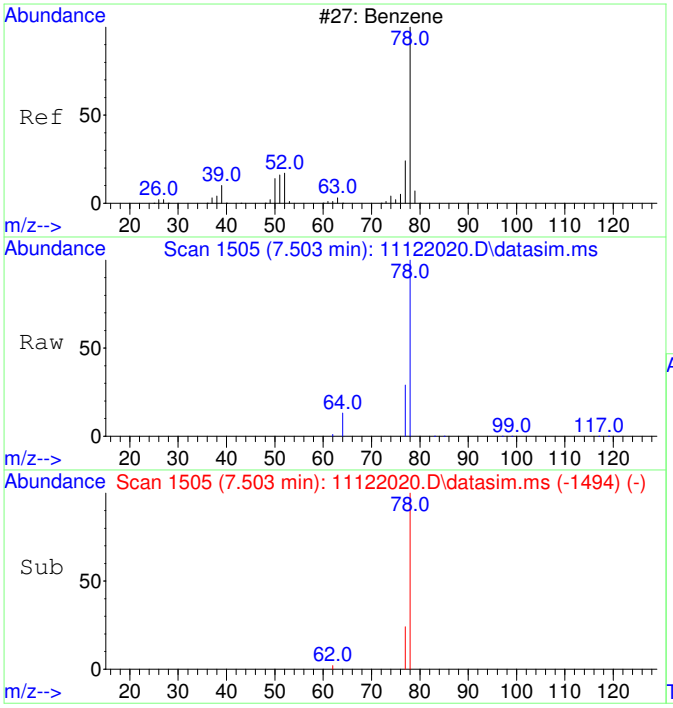


#8
Carbon tetrachloride
Concen: 74.54 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:117 Resp: 1941

Ion	Ratio	Lower	Upper
117	100		
119	99.3	66.4	126.4

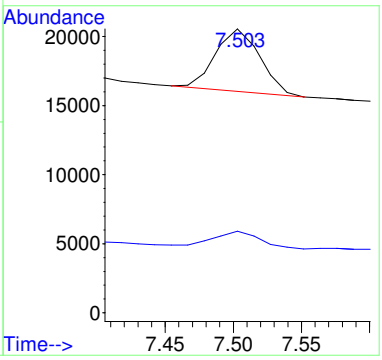


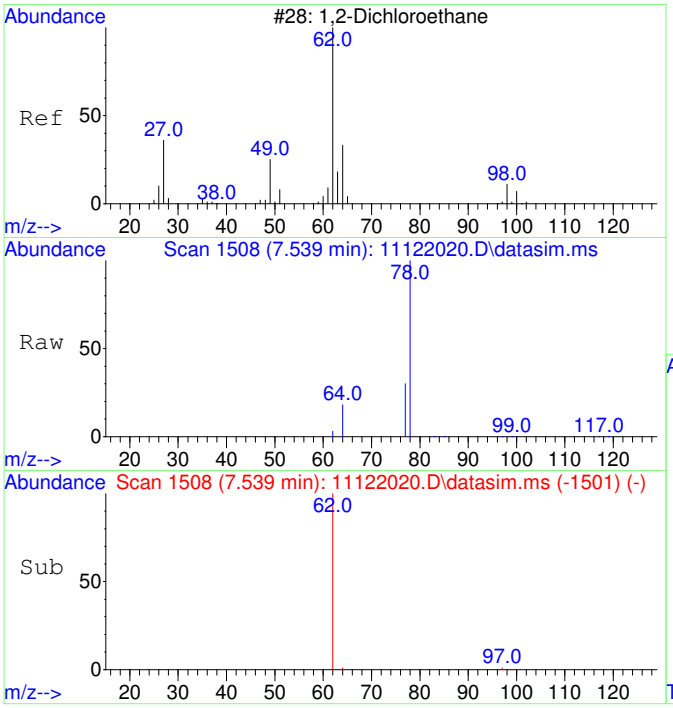


#9
Benzene
Concen: 142.91 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 78 Resp: 9969

Ion	Ratio	Lower	Upper
78	100		
77	44.9	0.0	53.2

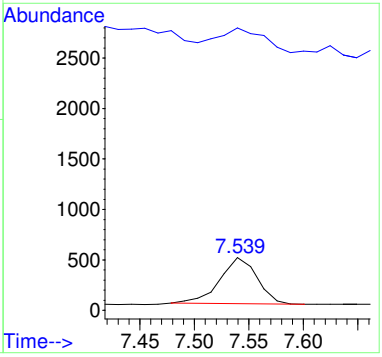


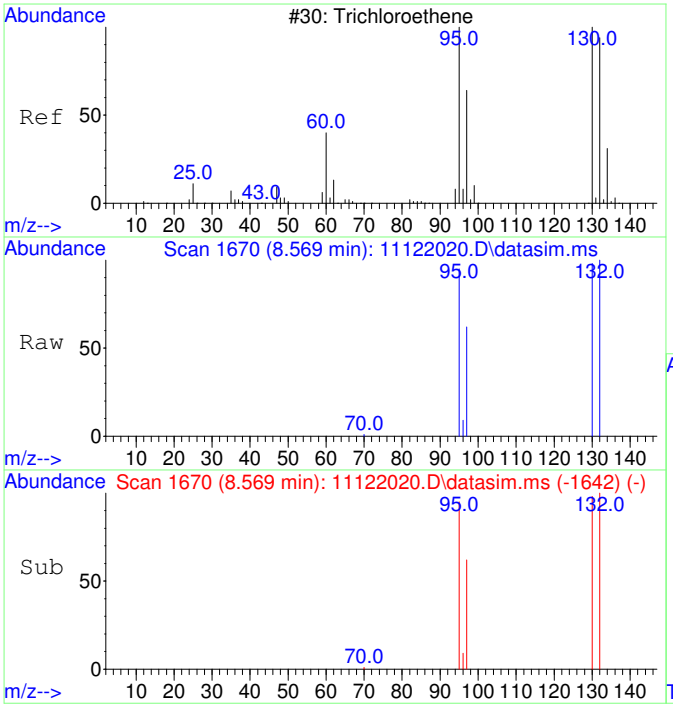


#10
1,2-Dichloroethane
Concen: 43.21 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 62 Resp: 1076

Ion	Ratio	Lower	Upper
62	100		
64	66.0	2.3	62.3#

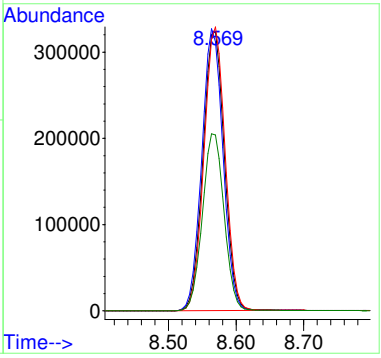


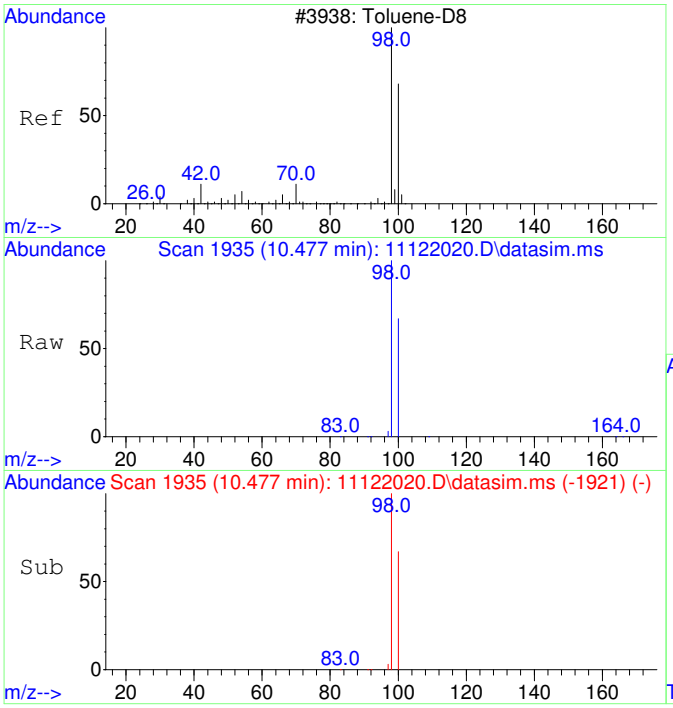


#11
Trichloroethene
Concen: 33927.74 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:130 Resp: 712574

Ion	Ratio	Lower	Upper
130	100		
95	100.0	60.7	120.7
132	100.4	76.0	116.0
97	63.9	38.6	78.6

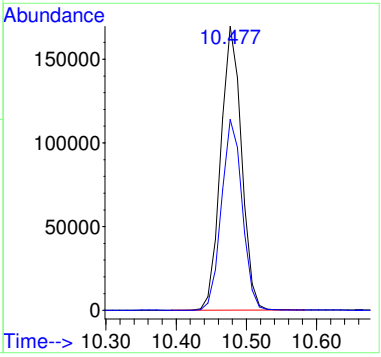


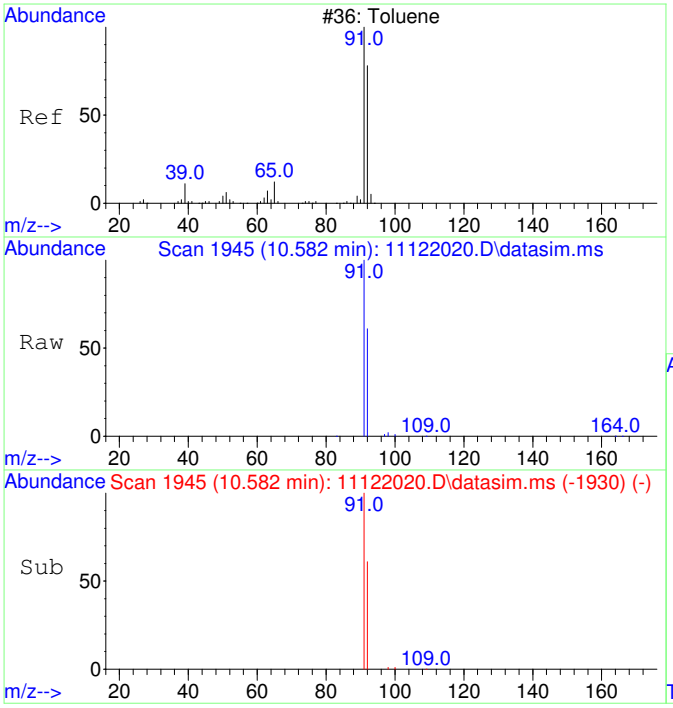


#12
Toluene-d8
Concen: 4360.77 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 98 Resp: 350481

Ion	Ratio	Lower	Upper
98	100		
100	66.9	37.1	97.1

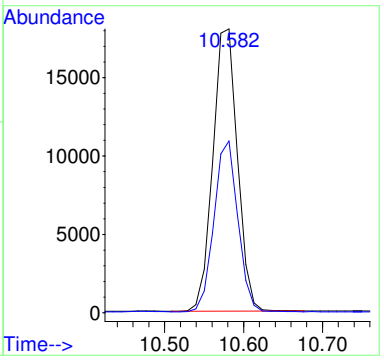


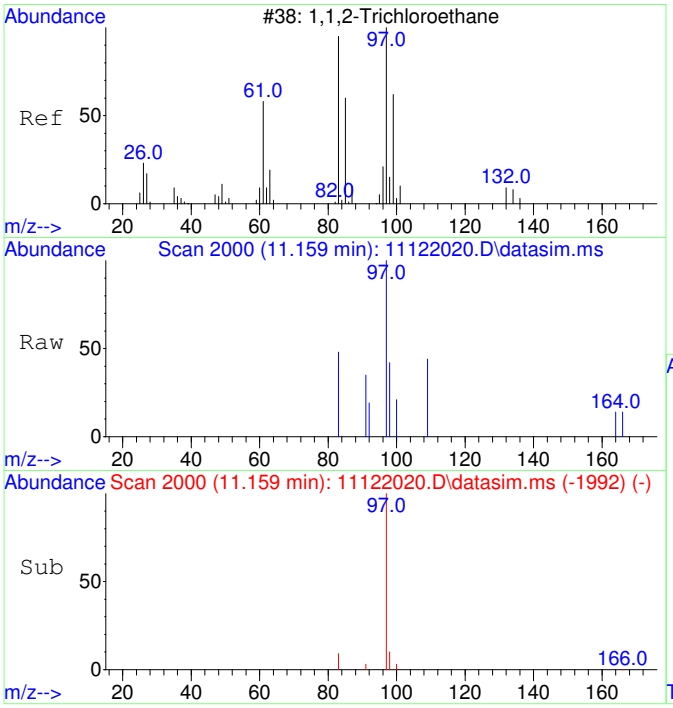


#13
Toluene
Concen: 379.76 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 38913

Ion	Ratio	Lower	Upper
91	100		
92	58.7	29.9	89.9

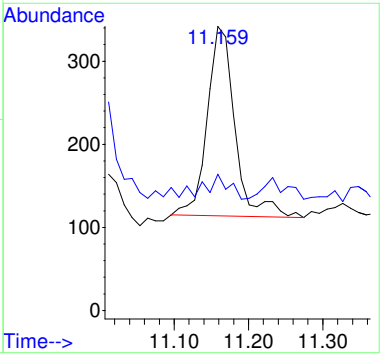


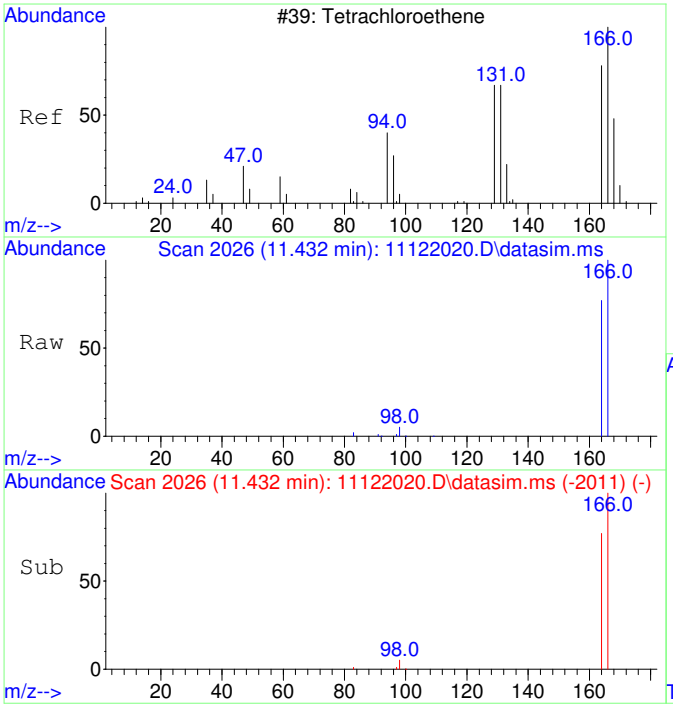


#14
1,1,2-Trichloroethane
Concen: 26.42 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 97 Resp: 590

Ion	Ratio	Lower	Upper
97	100		
83	10.8	51.2	111.2#

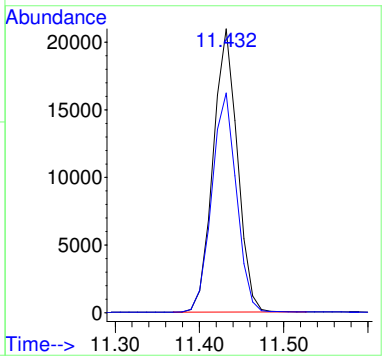


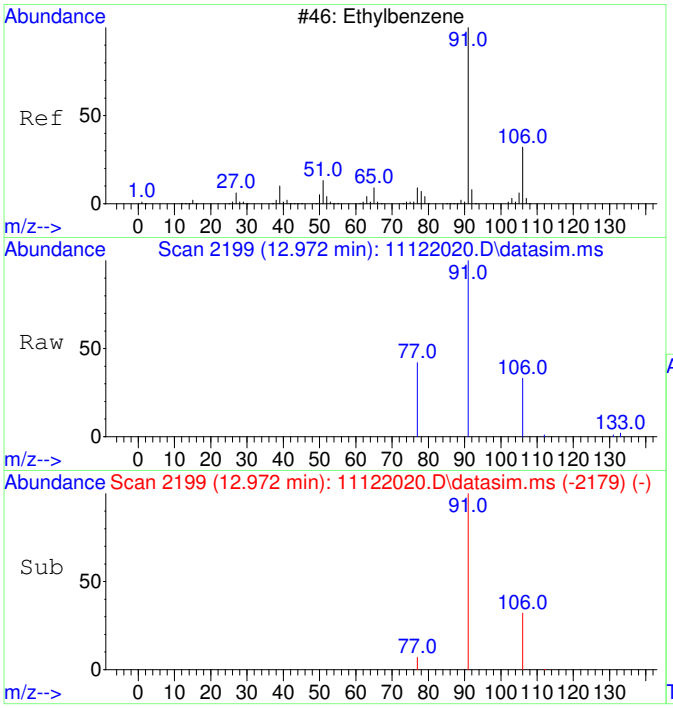


#15
Tetrachloroethene
Concen: 1413.22 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:166 Resp: 41907

Ion	Ratio	Lower	Upper
166	100		
164	78.4	47.8	107.8

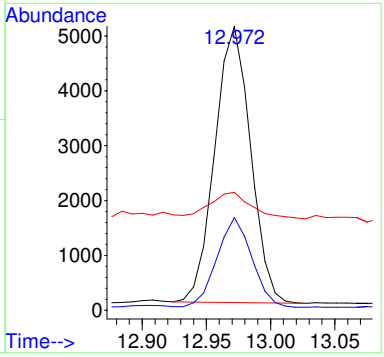


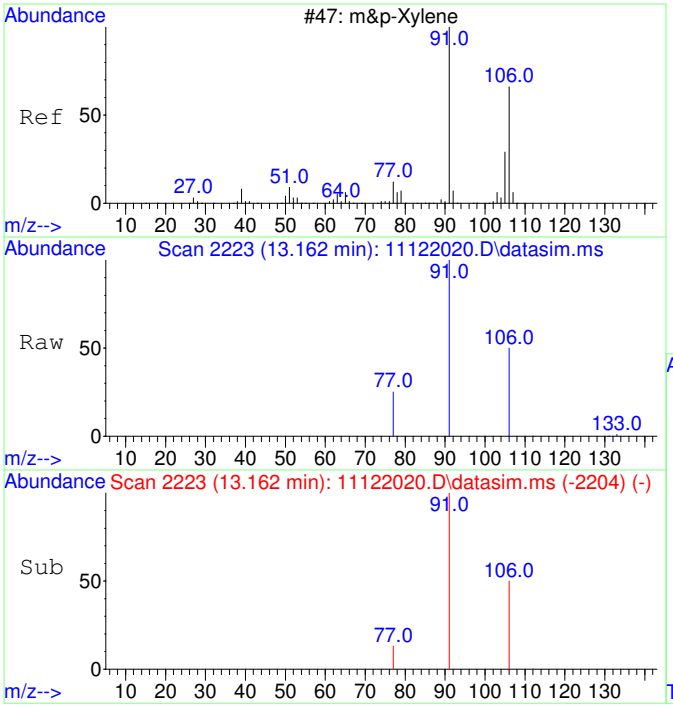


#18
Ethylbenzene
Concen: 77.78 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 9701

Ion	Ratio	Lower	Upper
91	100		
106	31.4	3.0	63.0
77	12.4	0.0	38.2

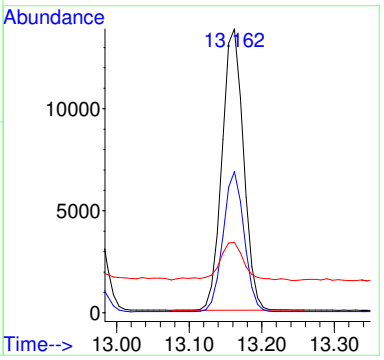


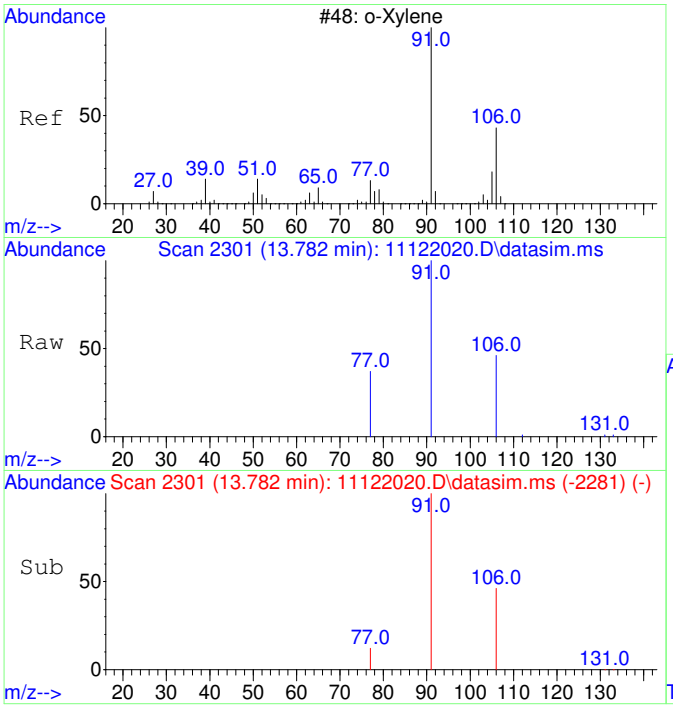


#19
m&p-Xylene
Concen: 290.33 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 28301

Ion	Ratio	Lower	Upper
91	100		
106	48.8	22.2	82.2
77	16.2	0.0	42.4

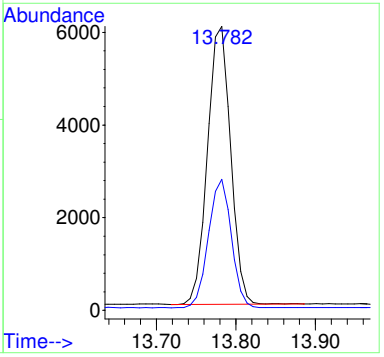


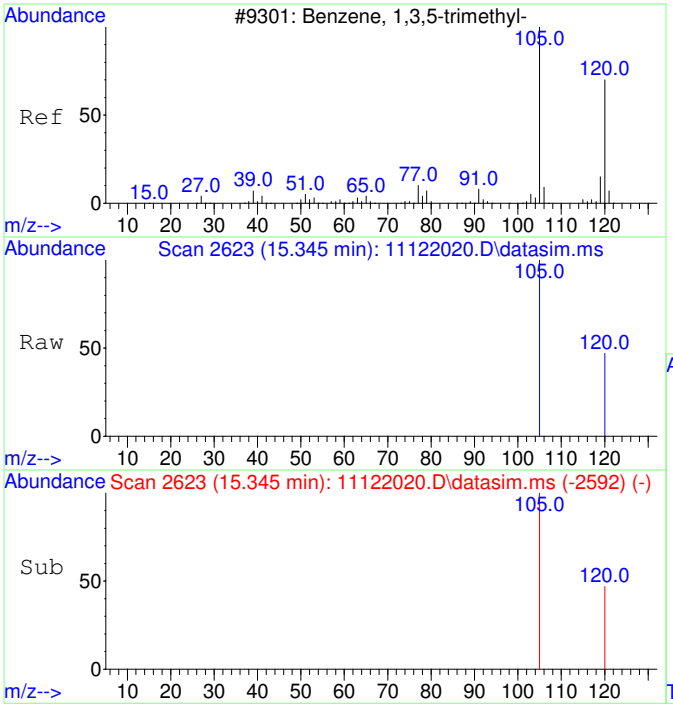


#20
o-Xylene
Concen: 116.63 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 12146

Ion	Ratio	Lower	Upper
91	100		
106	45.5	19.2	79.2

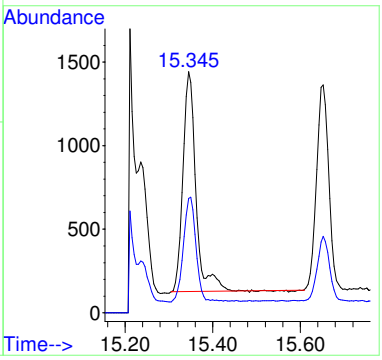


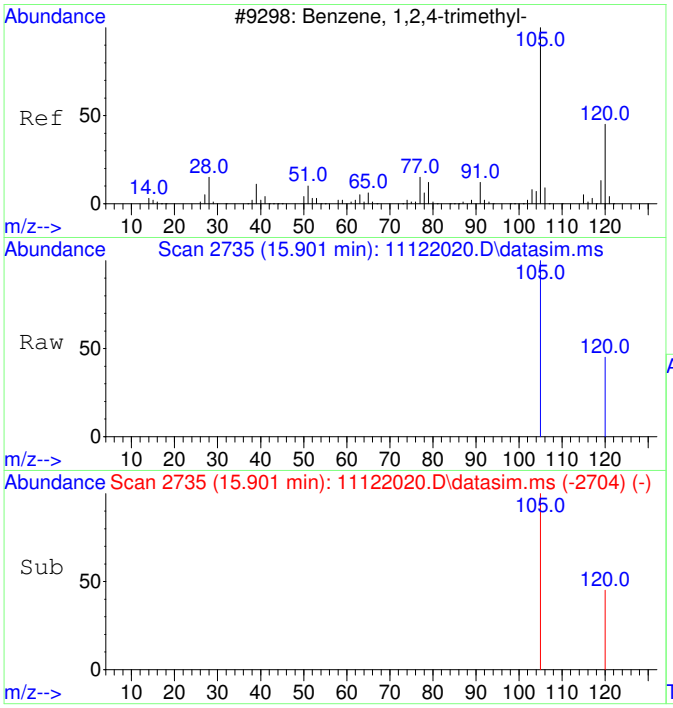


#22
1,3,5-Trimethylbenzene
Concen: 24.13 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:105 Resp: 2675

Ion	Ratio	Lower	Upper
105	100		
120	45.6	21.1	81.1

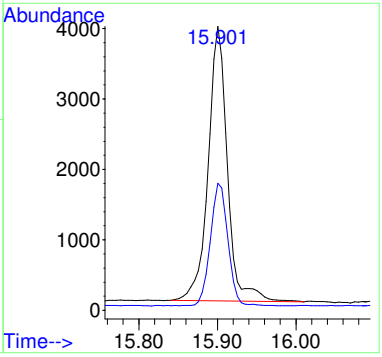


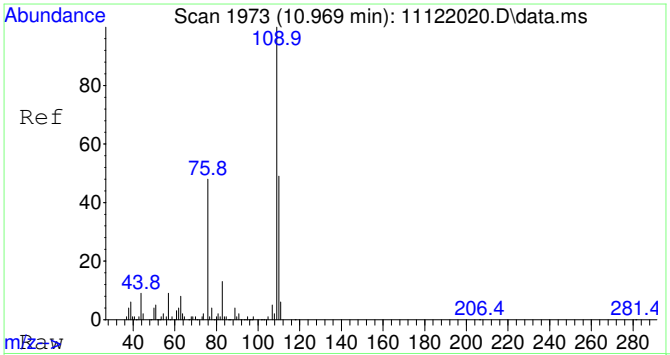


#23
1,2,4-Trimethylbenzene
Concen: 57.46 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:105 Resp: 6616

Ion	Ratio	Lower	Upper
105	100		
120	40.6	17.2	77.2

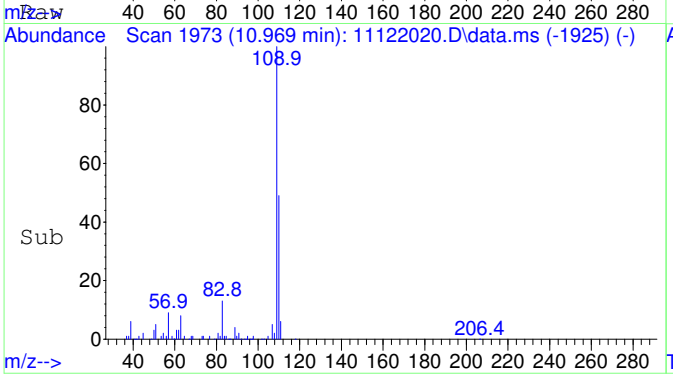


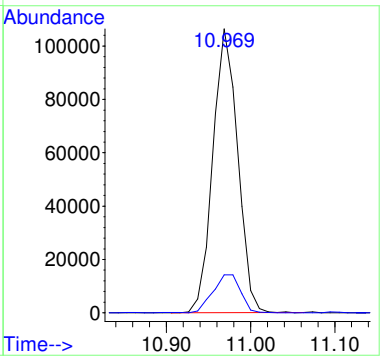


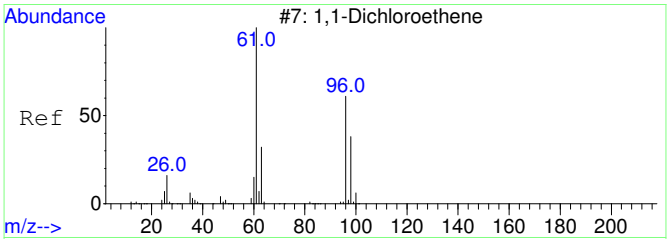
#25
2-Fluorotoluene SCAN
Concen: 5445.46 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:109 Resp: 217938

Ion	Ratio	Lower	Upper
109	100		
83	15.0	0.0	43.8



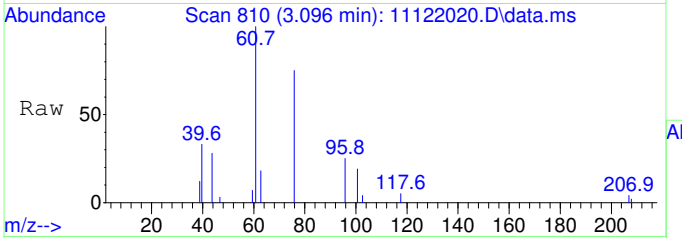


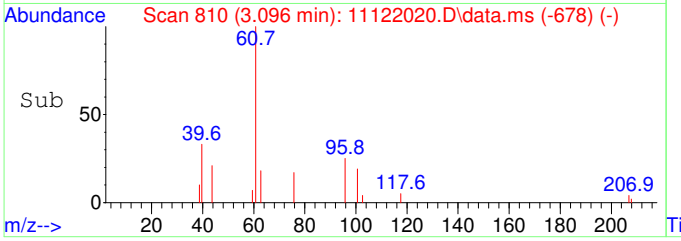


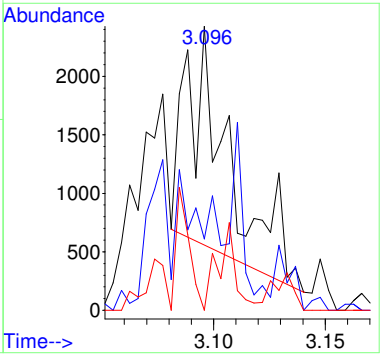
#26
1,1-Dichloroethene SCAN
Concen: 281.19 ug/L
RT: 3.096 min Scan# 810
Delta R.T. -0.011 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

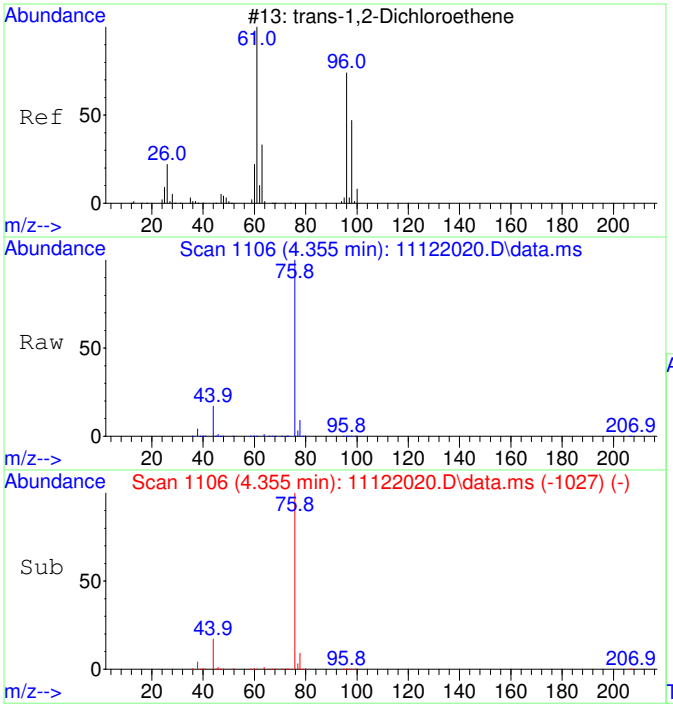
Tgt Ion: 61 Resp: 2390

Ion	Ratio	Lower	Upper
61	100		
96	22.9	33.1	93.1#
98	29.5	11.2	71.2





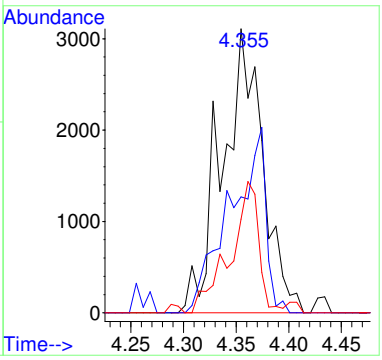


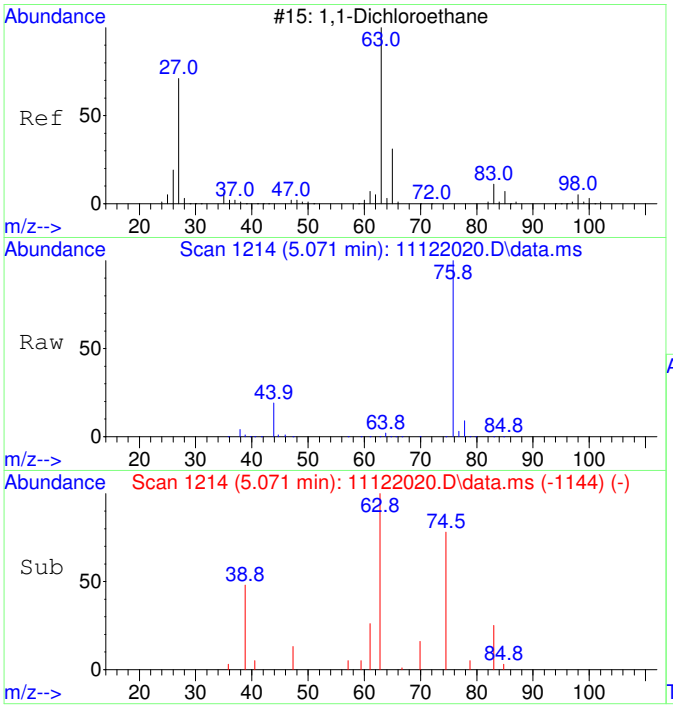


#27
trans-1,2-Dichloroethene SCAN
Concen: 798.19 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. -0.046 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 61 Resp: 8395

Ion	Ratio	Lower	Upper
61	100		
96	56.7	49.0	109.0
98	31.0	20.5	80.5

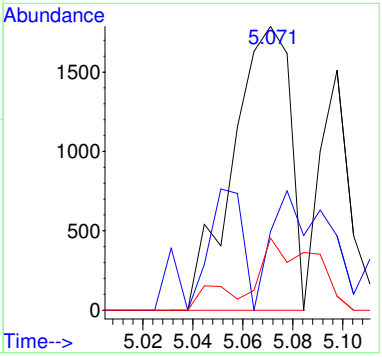


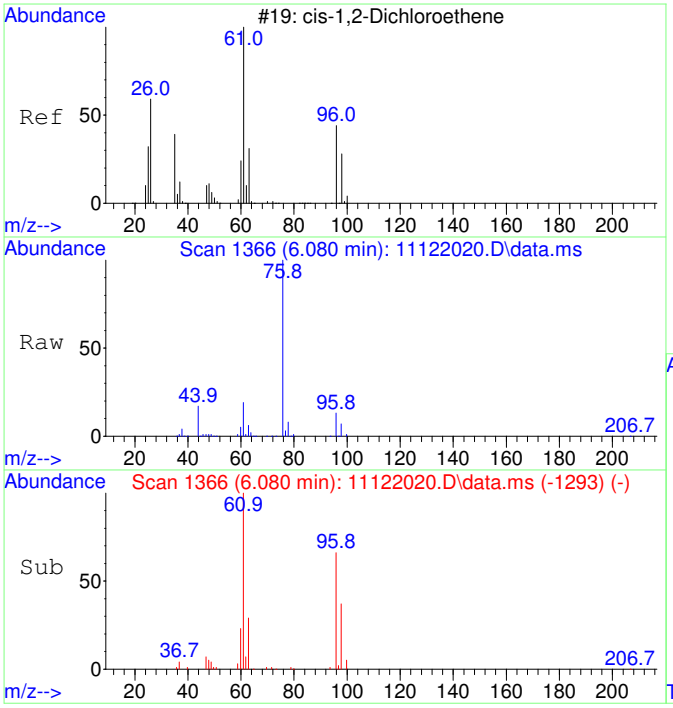


#28
1,1-Dichloroethane SCAN
Concen: 233.40 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. -0.033 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 63 Resp: 2841

Ion	Ratio	Lower	Upper
63	100		
65	50.4	1.3	61.3
83	28.9	0.0	45.9

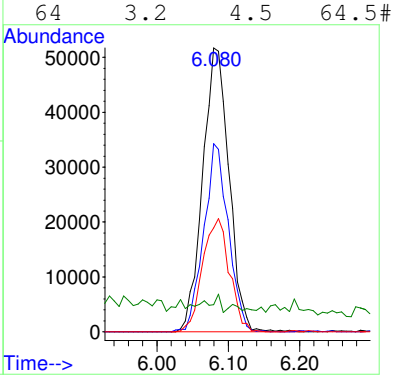


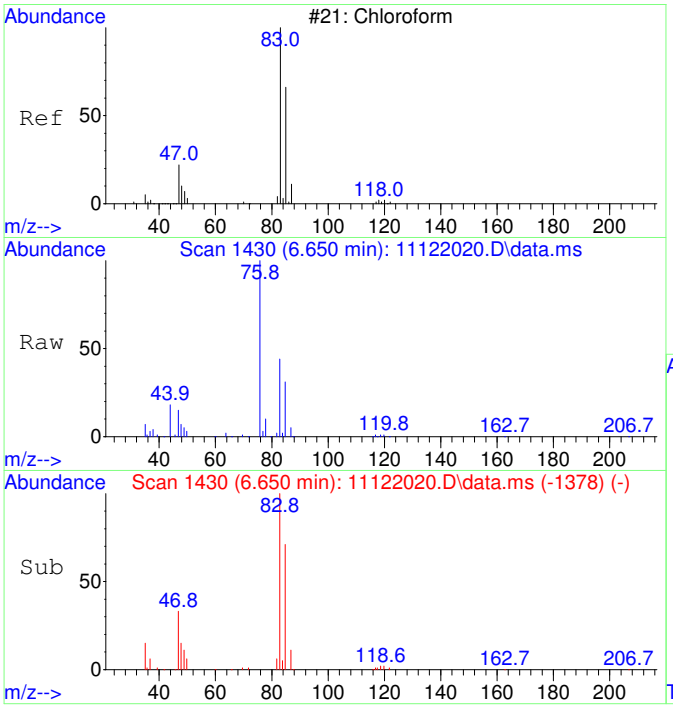


#29
cis-1,2-Dichloroethene SCAN
Concen: 10172.12 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. -0.013 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 61 Resp: 132656

Ion	Ratio	Lower	Upper
61	100		
96	61.8	39.9	99.9
98	40.6	13.5	73.5
64	3.2	4.5	64.5#

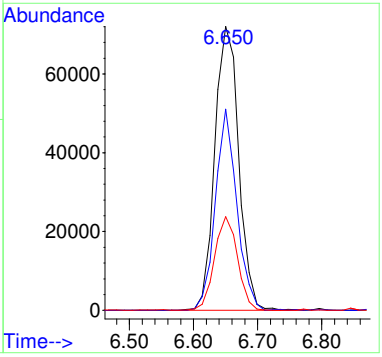


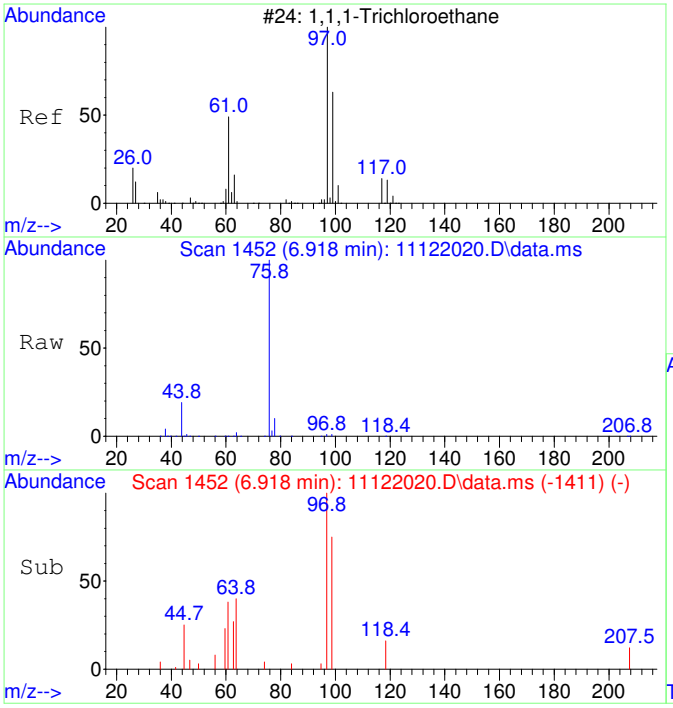


#30
Chloroform SCAN
Concen: 13167.19 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 83 Resp: 186249

Ion	Ratio	Lower	Upper
83	100		
85	63.7	34.6	94.6
47	31.8	0.0	53.4

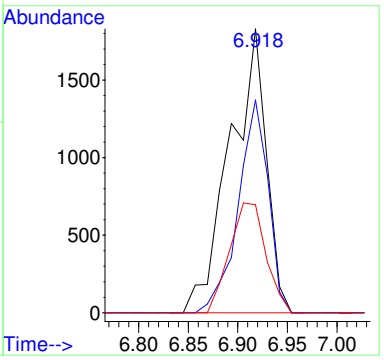


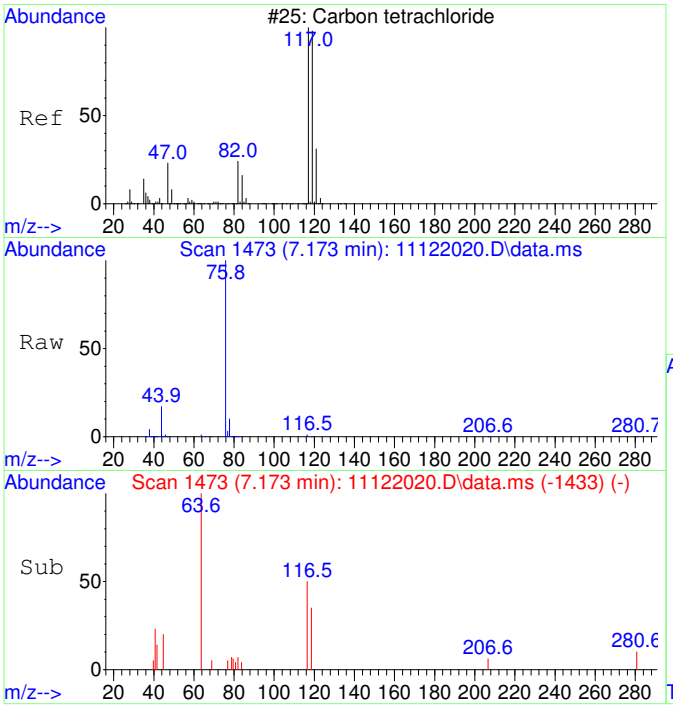


#31
1,1,1-Trichloroethane SCAN
Concen: 363.61 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 97 Resp: 4687

Ion	Ratio	Lower	Upper
97	100		
99	61.4	43.6	103.6
61	38.6	18.0	78.0

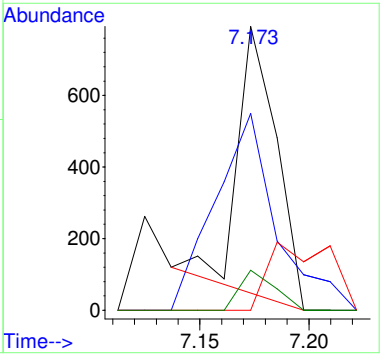


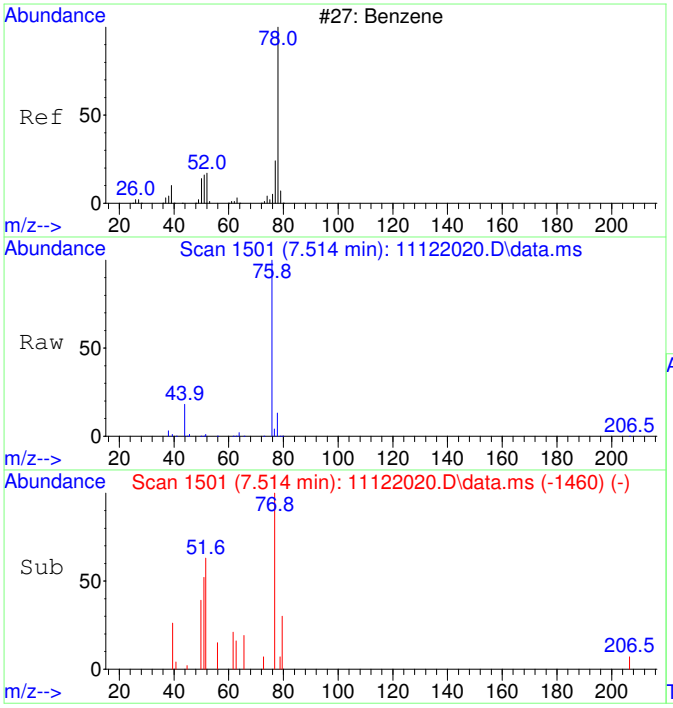


#32
Carbon tetrachloride SCAN
Concen: 65.82 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:117 Resp: 885

Ion	Ratio	Lower	Upper
117	100		
119	122.1	75.5	135.5
121	41.7	0.0	58.8
82	14.2	0.0	59.2

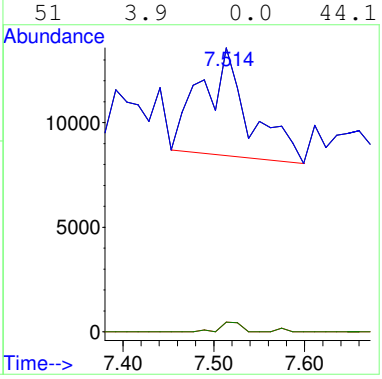


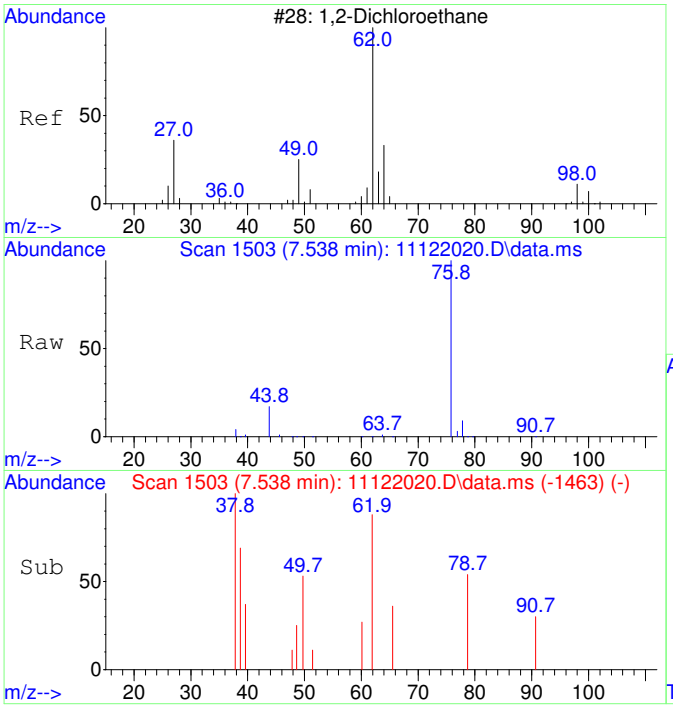


#33
Benzene SCAN
Concen: 526.92 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 78 Resp: 18701

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.9	0.0	47.9
51	3.9	0.0	44.1

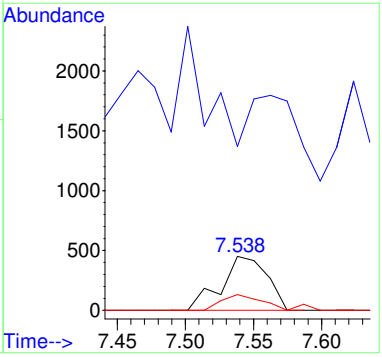


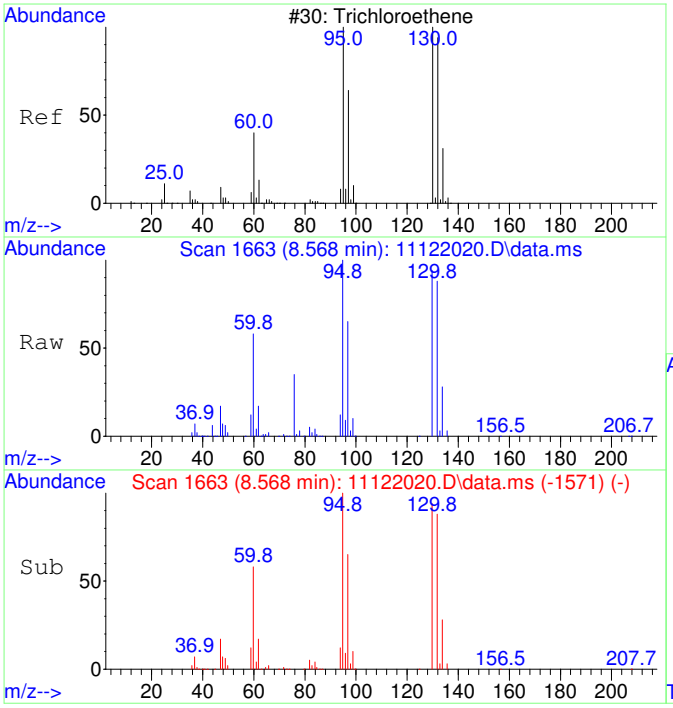


#34
1,2-Dichloroethane SCAN
Concen: 80.73 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 62 Resp: 1058

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	29.0	3.9	63.9

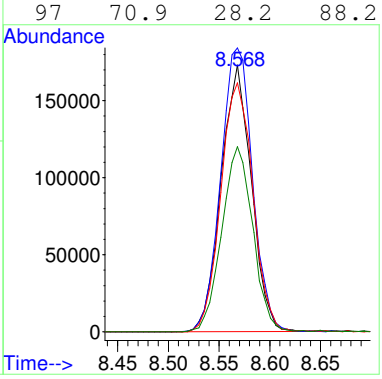


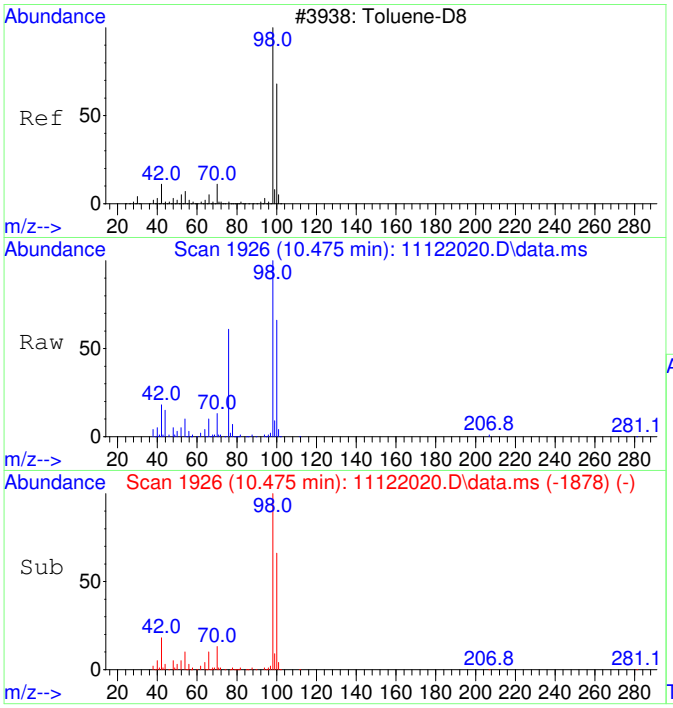


#35
Trichloroethene SCAN
Concen: 36885.16 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:130 Resp: 359747

Ion	Ratio	Lower	Upper
130	100		
95	111.9	60.5	120.5
132	99.1	59.6	119.6
97	70.9	28.2	88.2

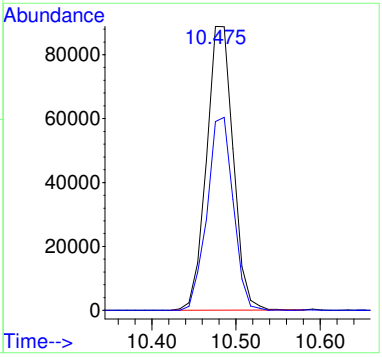


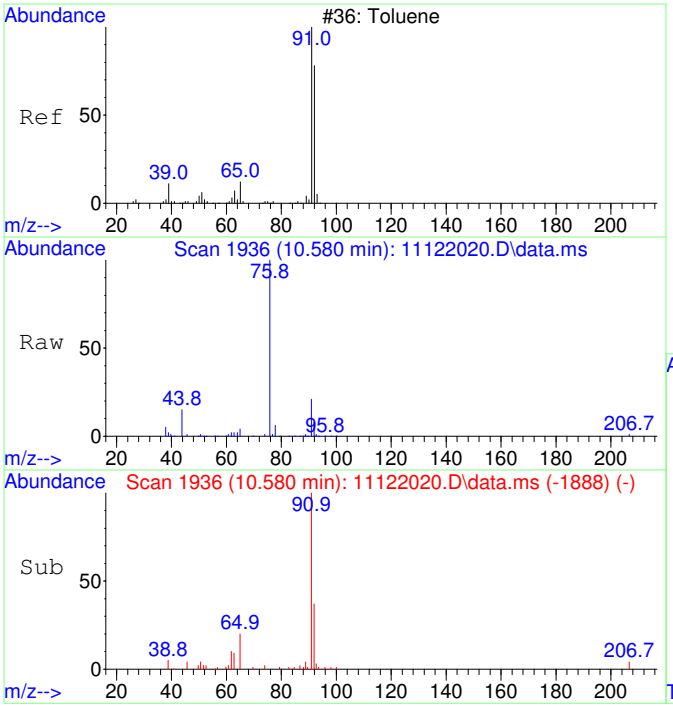


#36
Toluene-d8 SCAN
Concen: 5013.33 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 98 Resp: 196223

Ion	Ratio	Lower	Upper
98	100		
100	66.7	40.0	100.0

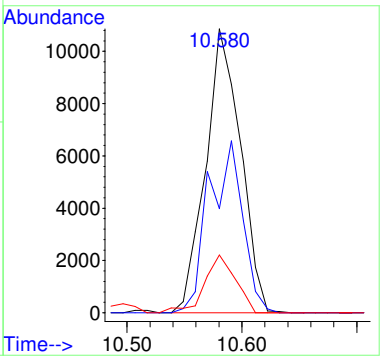


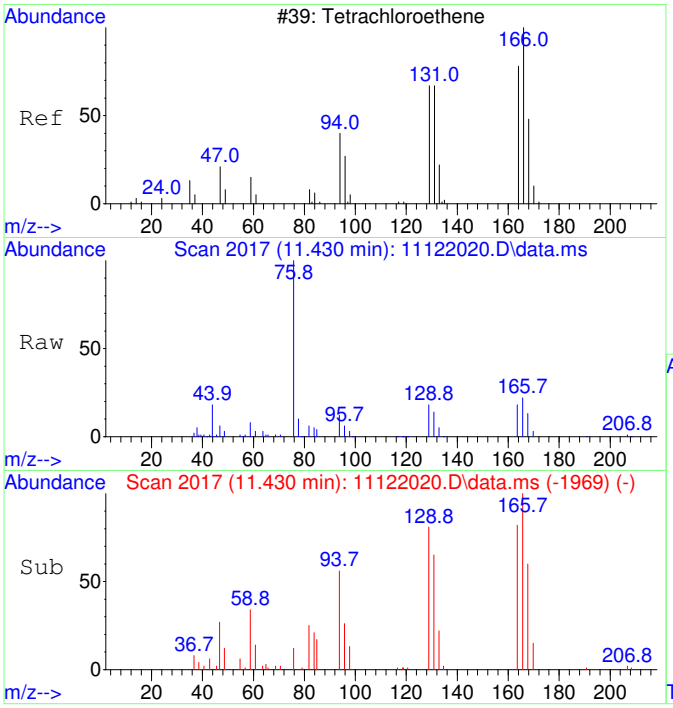


#37
Toluene SCAN
Concen: 459.35 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 23025

Ion	Ratio	Lower	Upper
91	100		
92	58.6	28.3	88.3
65	18.0	0.0	41.0

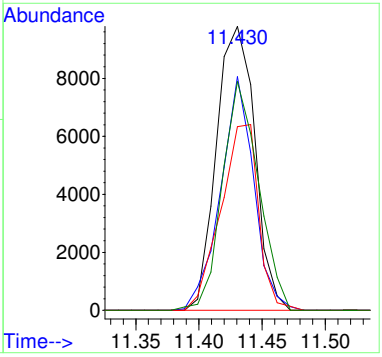


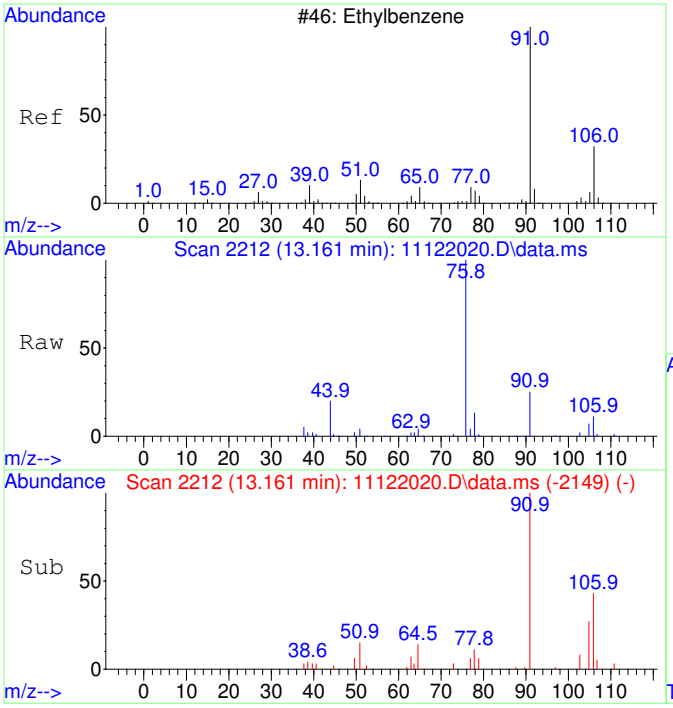


#39
Tetrachloroethene SCAN
Concen: 1722.01 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:166 Resp: 20737

Ion	Ratio	Lower	Upper
166	100		
164	71.4	50.9	110.9
131	64.5	38.7	98.7
129	76.0	41.8	101.8

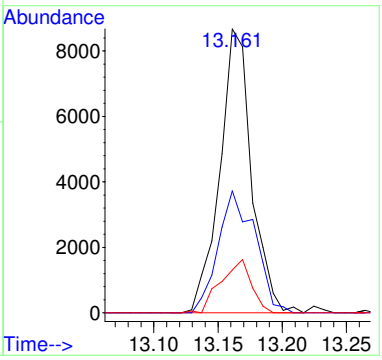


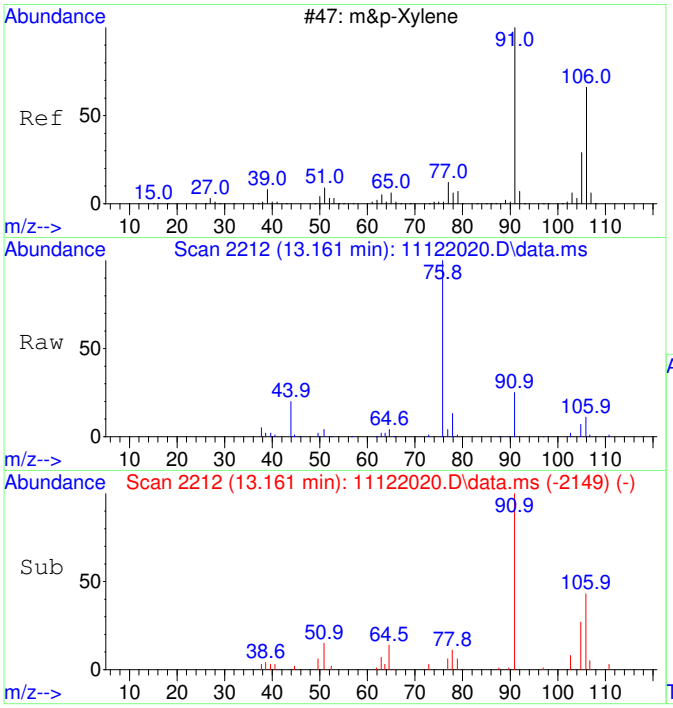


#42
Ethylbenzene SCAN
Concen: 163.35 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 14917

Ion	Ratio	Lower	Upper
91	100		
106	49.7	23.1	83.1
51	18.0	0.0	40.1

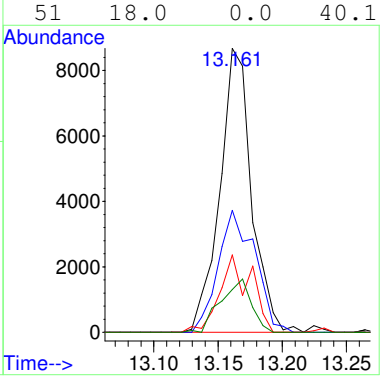


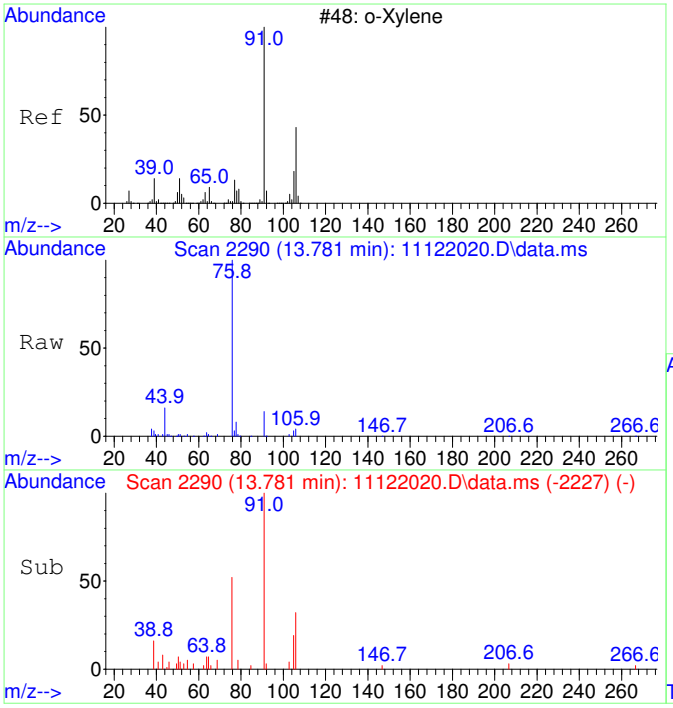


#43
m&p-Xylene SCAN
Concen: 163.35 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 14917

Ion	Ratio	Lower	Upper
91	100		
106	49.7	23.1	83.1
105	26.8	0.0	54.7
51	18.0	0.0	40.1

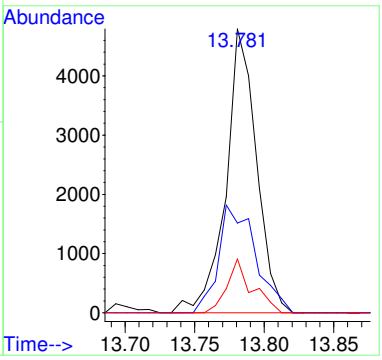


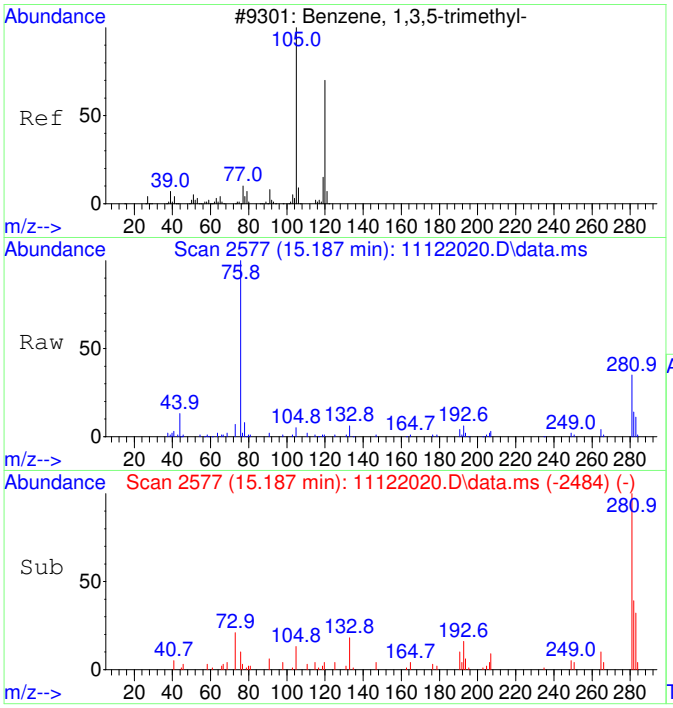


#44
o-Xylene SCAN
Concen: 150.16 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 7340

Ion	Ratio	Lower	Upper
91	100		
106	45.9	18.0	78.0
105	15.4	0.0	56.6

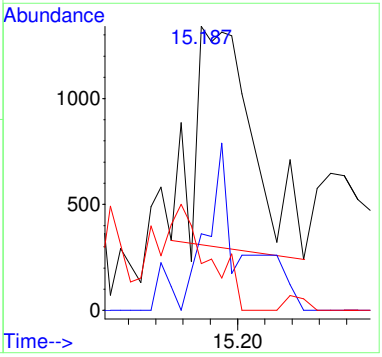




#46
1,3,5-Trimethylbenzene SCAN
Concen: 32.73 ug/L
RT: 15.187 min Scan# 2577
Delta R.T. -0.157 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:105 Resp: 1686

Ion	Ratio	Lower	Upper
105	100		
120	44.4	18.3	78.3
119	29.8	0.0	43.1



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122020.D
Acq On : 12 Nov 2020 15:57
InstName : AG5975C
Operator : TD
Sample : 2011015-12
Misc :
ALS Vial : 20 Sample Multiplier: 1

M.I. Performed By:
TD at 11:40 am, Nov 13, 2020

M.I. Approved By:
ZR at 2:25 pm, Nov 23, 2020

Quant Time: Nov 13 06:13:25 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

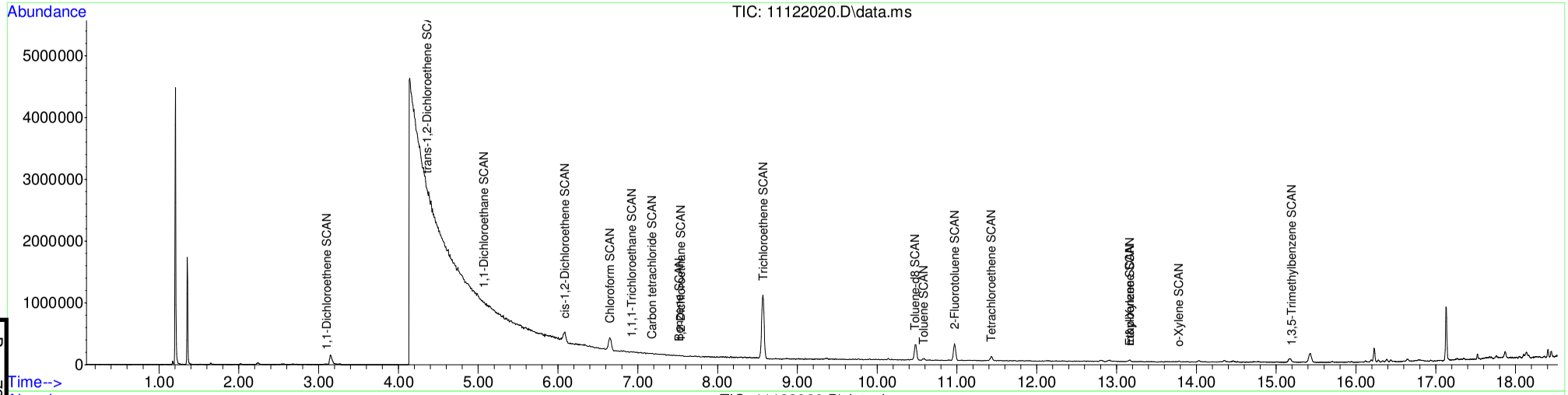
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	410559	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	350481	4360.77 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.22%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	9164m	558.98 ug/L	
3] trans-1,2-Dichloroethene	4.356	61	12437	656.60 ug/L	98
4] 1,1-Dichloroethane	5.072	63	9226	391.29 ug/L	96
5] cis-1,2-Dichloroethene	6.081	61	216907	8715.08 ug/L	99
6] Chloroform	6.652	83	321949	12638.07 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	7162	258.88 ug/L	99
8] Carbon tetrachloride	7.175	117	1941	74.54 ug/L	97
9] Benzene	7.503	78	9969	142.91 ug/L	55
10] 1,2-Dichloroethane	7.539	62	1076	43.21 ug/L #	40
11] Trichloroethene	8.569	130	712574	33927.74 ug/L **oc**	93
13] Toluene	10.582	91	38913	379.76 ug/L	98
14] 1,1,2-Trichloroethane	11.159	97	590	26.42 ug/L #	21
15] Tetrachloroethene	11.432	166	41907	1413.22 ug/L	99
18] Ethylbenzene	12.972	91	9701	77.78 ug/L	95
19] m&p-Xylene	13.162	91	28301	290.33 ug/L	94
20] o-Xylene	13.782	91	12146	116.63 ug/L	95
22] 1,3,5-Trimethylbenzene	15.345	105	2675	24.13 ug/L	92
23] 1,2,4-Trimethylbenzene	15.901	105	6616	57.46 ug/L	90
25) 2-Fluorotoluene SCAN	10.969	109	217938	5445.46 ug/L	97
26) 1,1-Dichloroethene SCAN	3.096	61	2390	281.19 ug/L #	61
27) trans-1,2-Dichloroethe...	4.355	61	8395	798.19 ug/L	73
28) 1,1-Dichloroethane SCAN	5.071	63	2841	233.40 ug/L	67
29) cis-1,2-Dichloroethene...	6.080	61	132656	10172.12 ug/L #	81
30) Chloroform SCAN	6.650	83	186249	13167.19 ug/L	95
31) 1,1,1-Trichloroethane ...	6.918	97	4687	363.61 ug/L	86
32) Carbon tetrachloride SCAN	7.173	117	885	65.82 ug/L	80
33) Benzene SCAN	7.514	78	18701	526.92 ug/L	93
34) 1,2-Dichloroethane SCAN	7.538	62	1058	80.73 ug/L #	65
35) Trichloroethene SCAN	8.568	130	359747	36885.16 ug/L	83
36) Toluene-d8 SCAN	10.475	98	196223	5013.33 ug/L	96
37) Toluene SCAN	10.580	91	23025	459.35 ug/L	97
39) Tetrachloroethene SCAN	11.430	166	20737	1722.01 ug/L	93
42) Ethylbenzene SCAN	13.161	91	14917	163.35 ug/L	93
43) m&p-Xylene SCAN	13.161	91	14917	163.35 ug/L	94
44) o-Xylene SCAN	13.781	91	7340	150.16 ug/L	90
46) 1,3,5-Trimethylbenzene...	15.187	105	1686	32.73 ug/L	87

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122020.D
Acq On : 12 Nov 2020 15:57
InstName : AG5975C
Operator : TD
Sample : 2011015-12
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 13 06:13:25 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



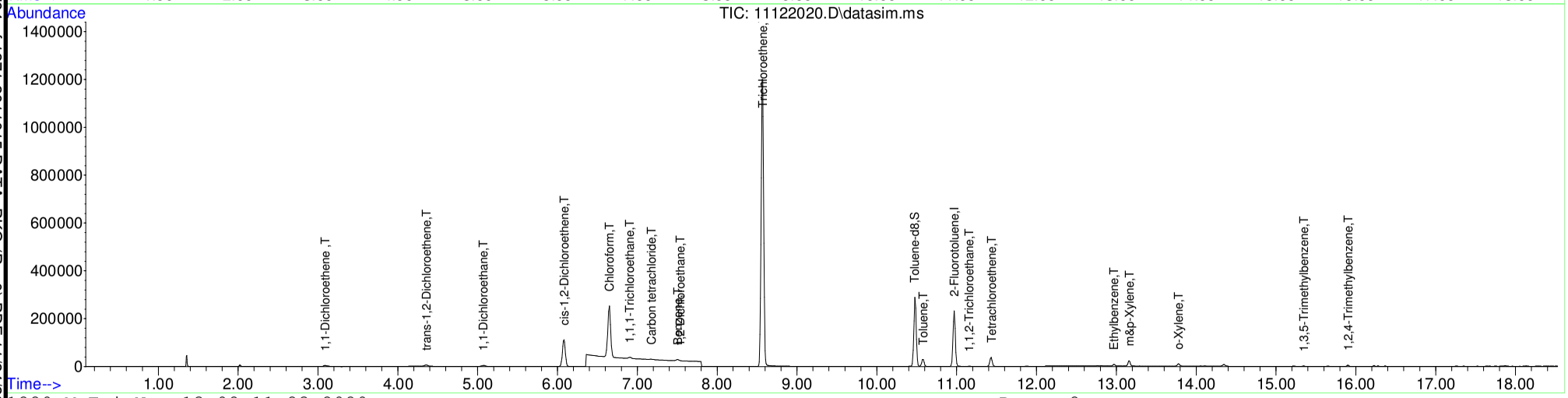
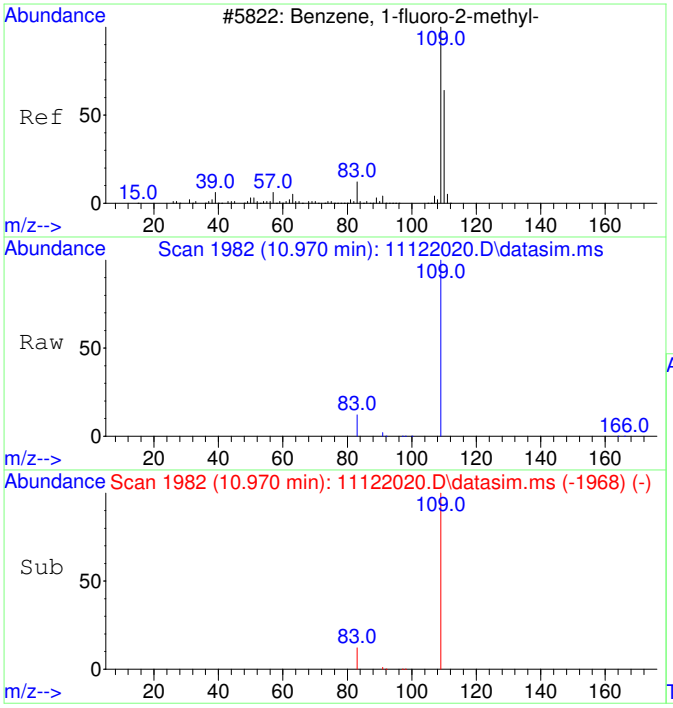


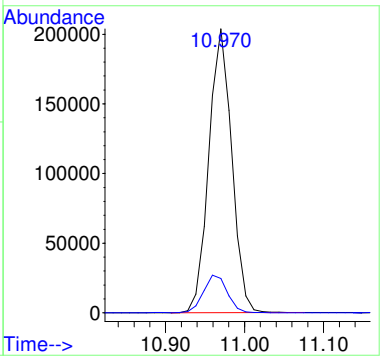
Table of Contents

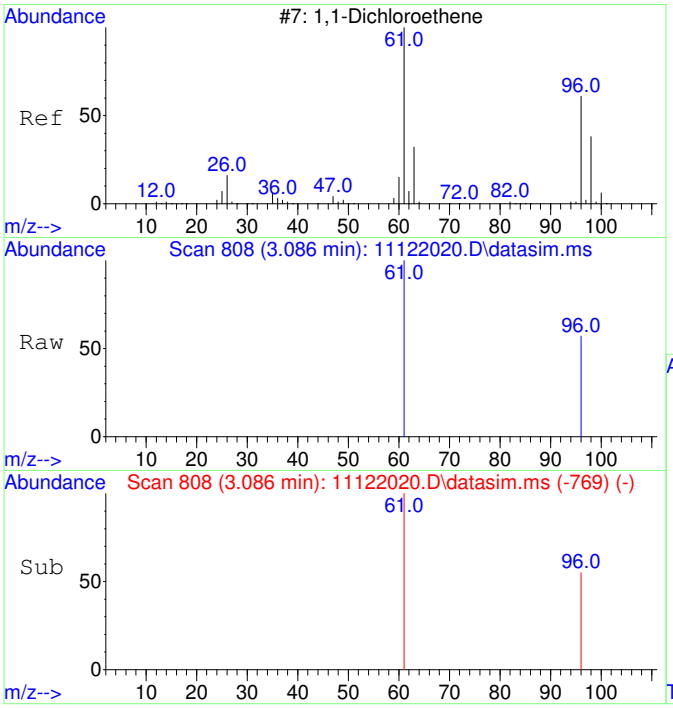


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:109 Resp: 410559

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

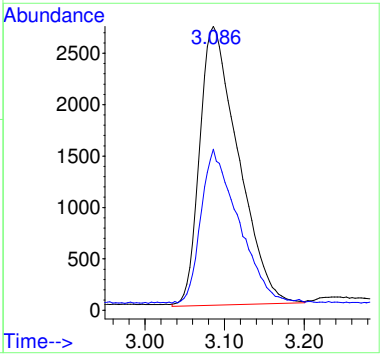


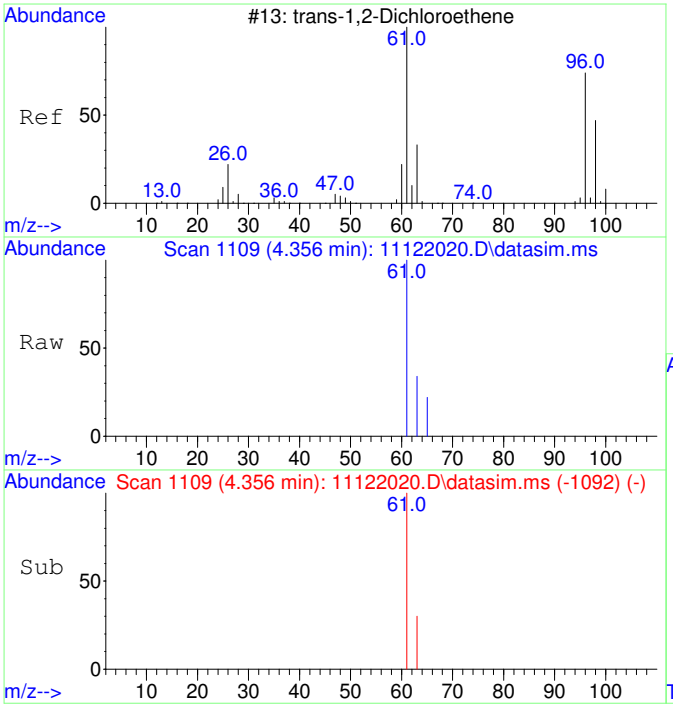


#2
1,1-Dichloroethene
Concen: 558.98 ug/L m
RT: 3.086 min Scan# 808
Delta R.T. -0.004 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 61 Resp: 9164

Ion	Ratio	Lower	Upper
61	100		
96	56.8	37.2	97.2

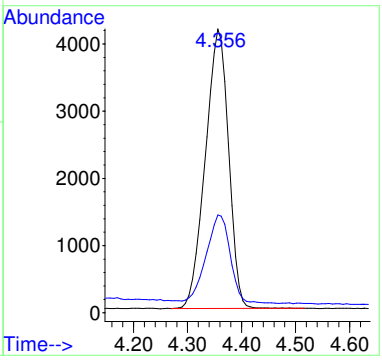


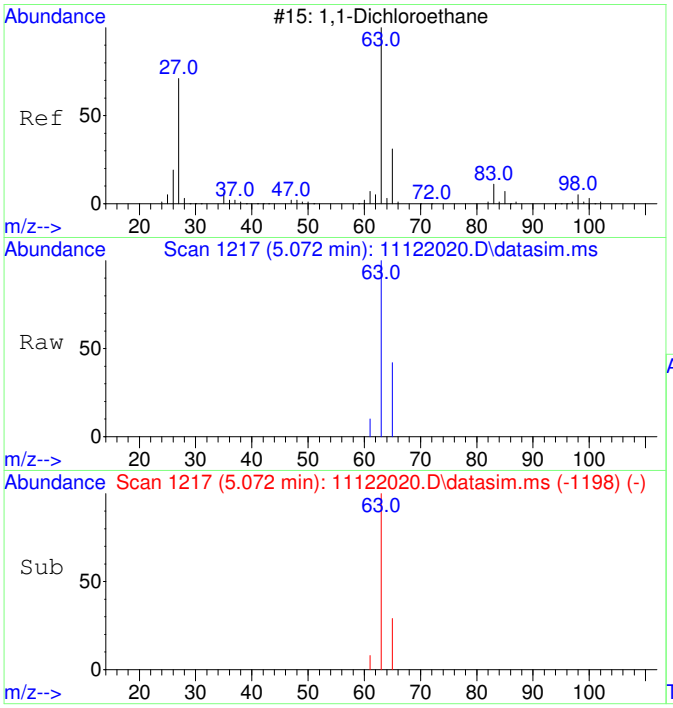


#3
trans-1,2-Dichloroethene
Concen: 656.60 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. -0.040 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 61 Resp: 12437

Ion	Ratio	Lower	Upper
61	100		
63	33.3	2.4	62.4

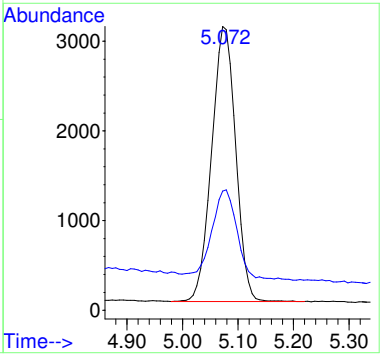


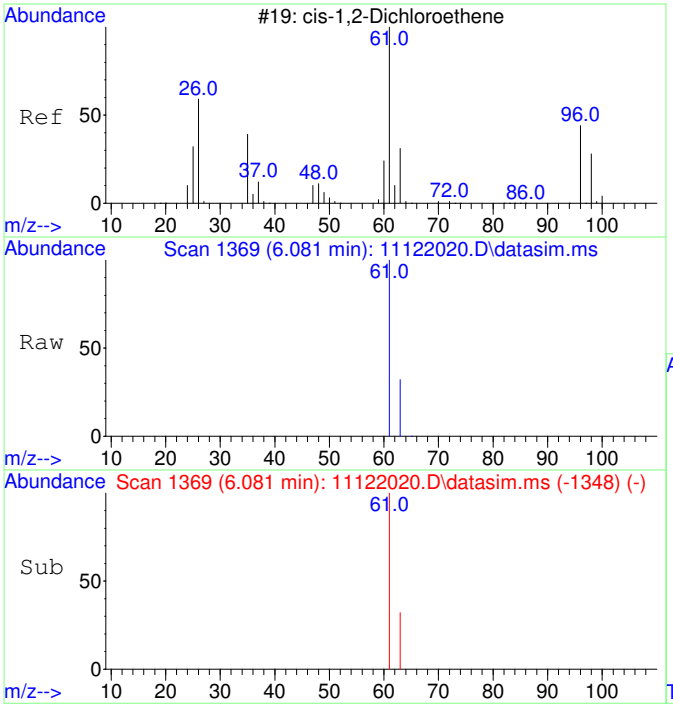


#4
1,1-Dichloroethane
Concen: 391.29 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. -0.027 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 63 Resp: 9226

Ion	Ratio	Lower	Upper
63	100		
65	34.1	1.8	61.8

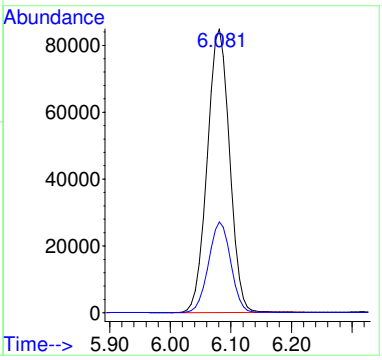


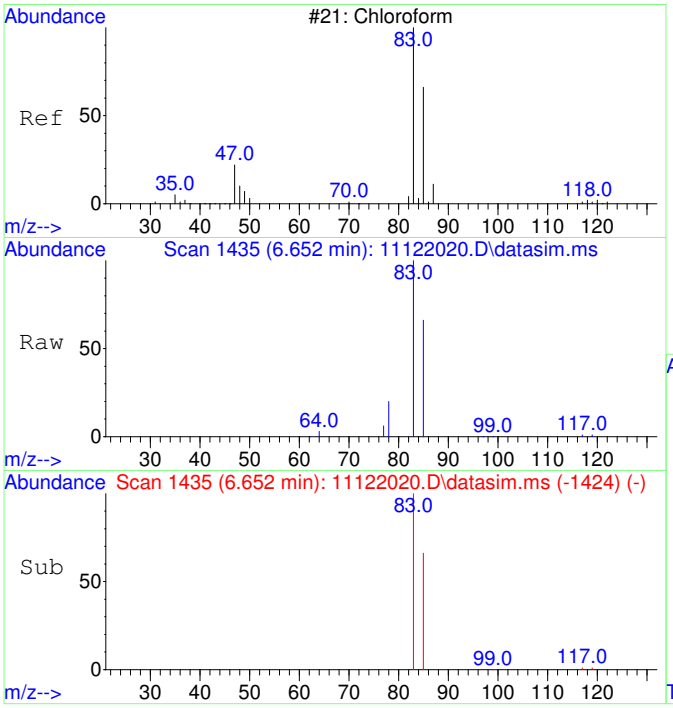


#5
cis-1,2-Dichloroethene
Concen: 8715.08 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 61 Resp: 216907

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

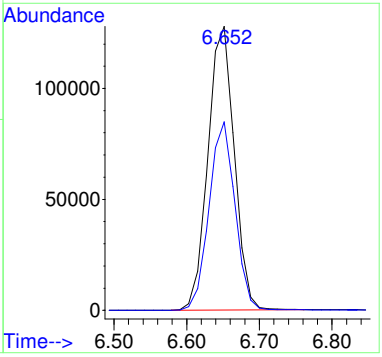


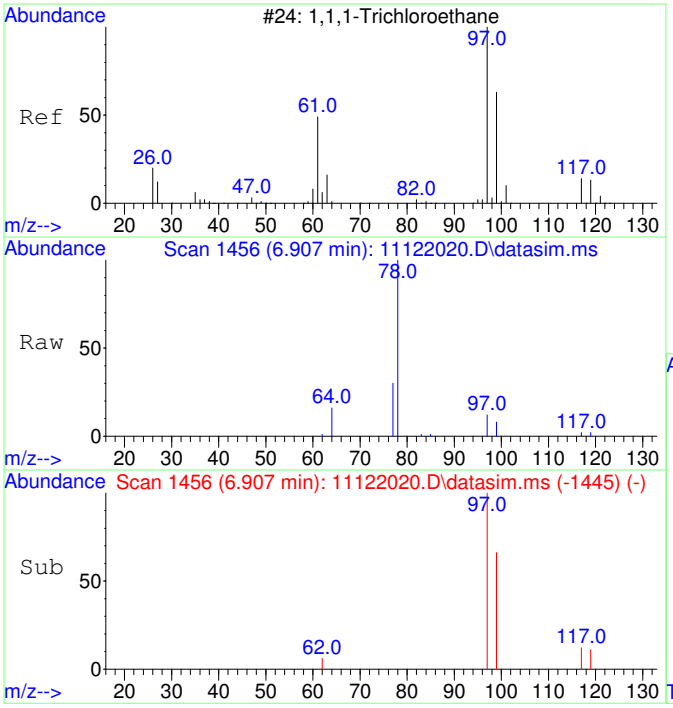


#6
Chloroform
Concen: 12638.07 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 83 Resp: 321949

Ion	Ratio	Lower	Upper
83	100		
85	65.1	35.1	95.1

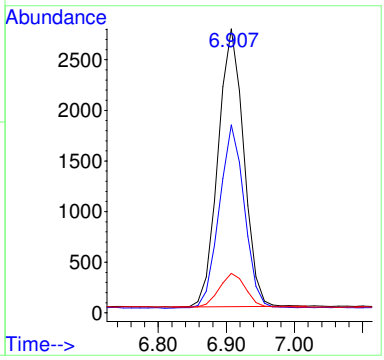


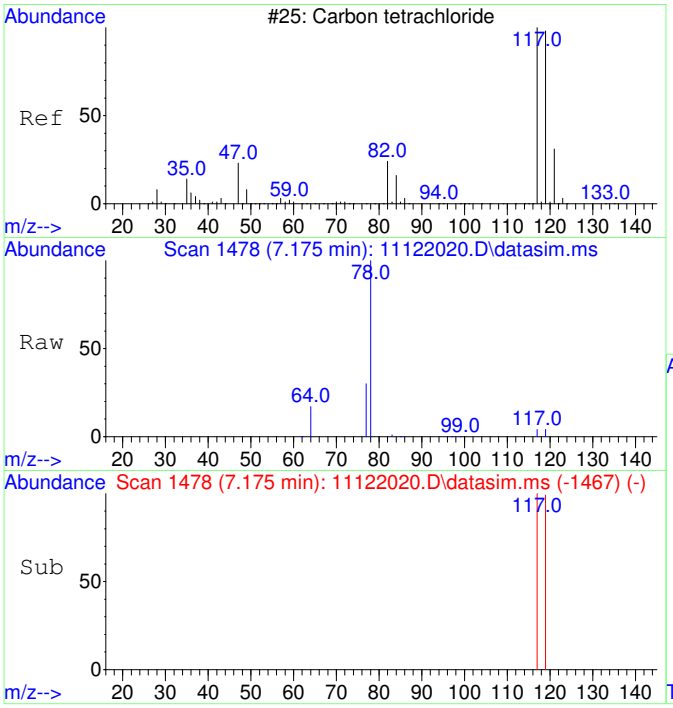


#7
1,1,1-Trichloroethane
Concen: 258.88 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 97 Resp: 7162

Ion	Ratio	Lower	Upper
97	100		
99	64.5	34.6	94.6
117	12.3	0.0	43.2

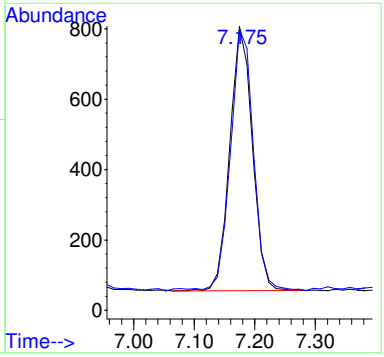


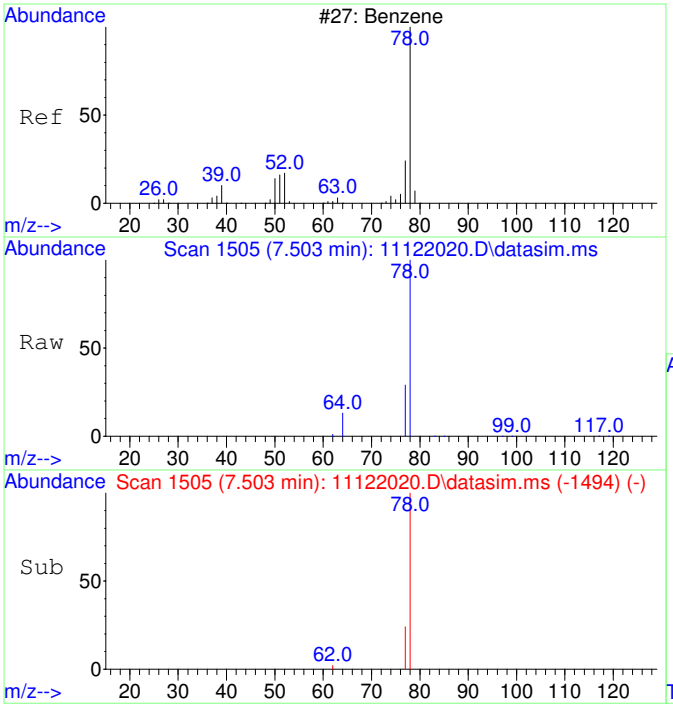


#8
Carbon tetrachloride
Concen: 74.54 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:117 Resp: 1941

Ion	Ratio	Lower	Upper
117	100		
119	99.3	66.4	126.4

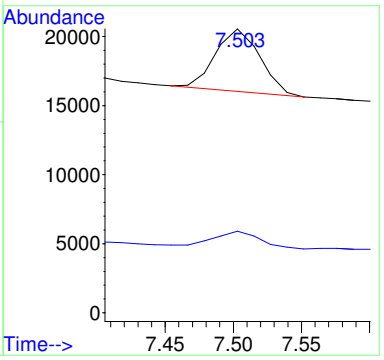


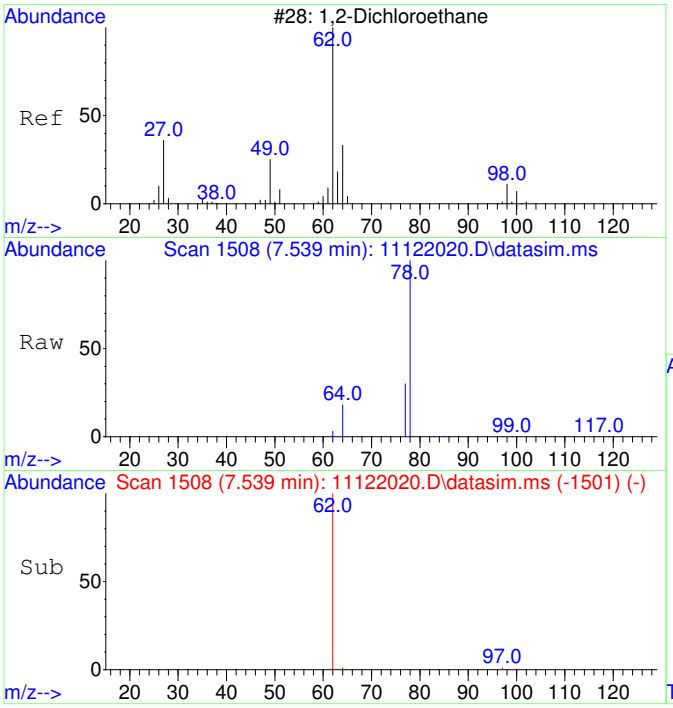


#9
Benzene
Concen: 142.91 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 78 Resp: 9969

Ion	Ratio	Lower	Upper
78	100		
77	44.9	0.0	53.2

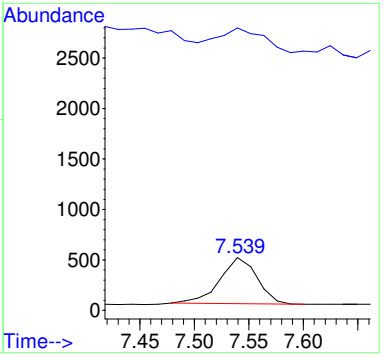


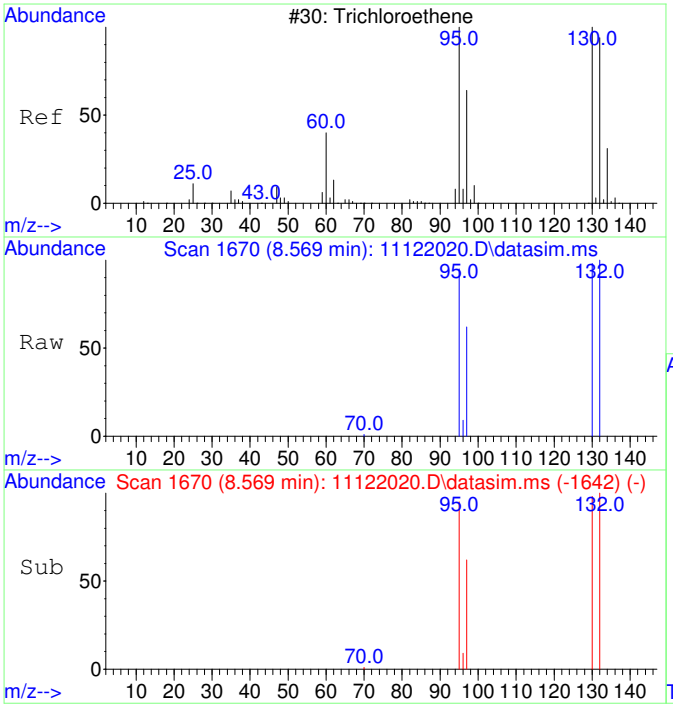


#10
1,2-Dichloroethane
Concen: 43.21 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 62 Resp: 1076

Ion	Ratio	Lower	Upper
62	100		
64	66.0	2.3	62.3#

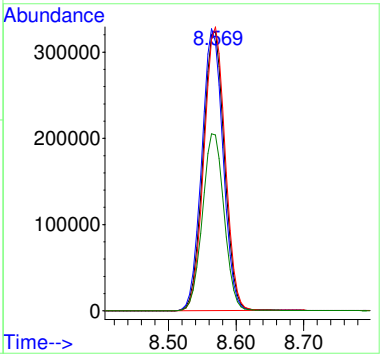


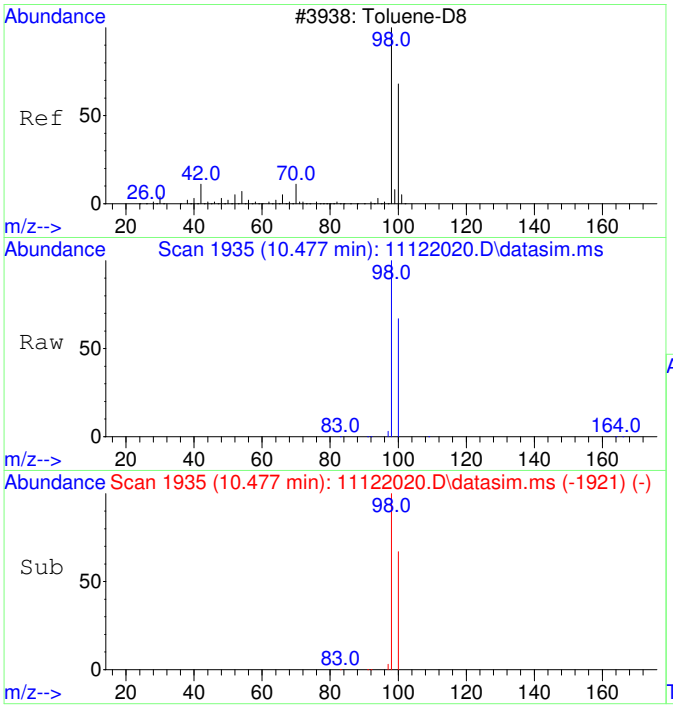


#11
Trichloroethene
Concen: 33927.74 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:130 Resp: 712574

Ion	Ratio	Lower	Upper
130	100		
95	100.0	60.7	120.7
132	100.4	76.0	116.0
97	63.9	38.6	78.6

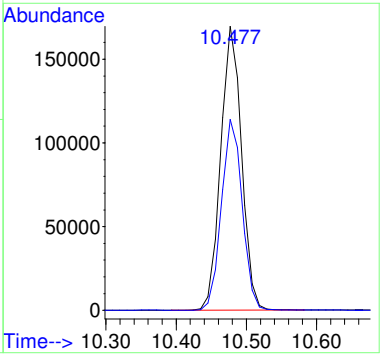


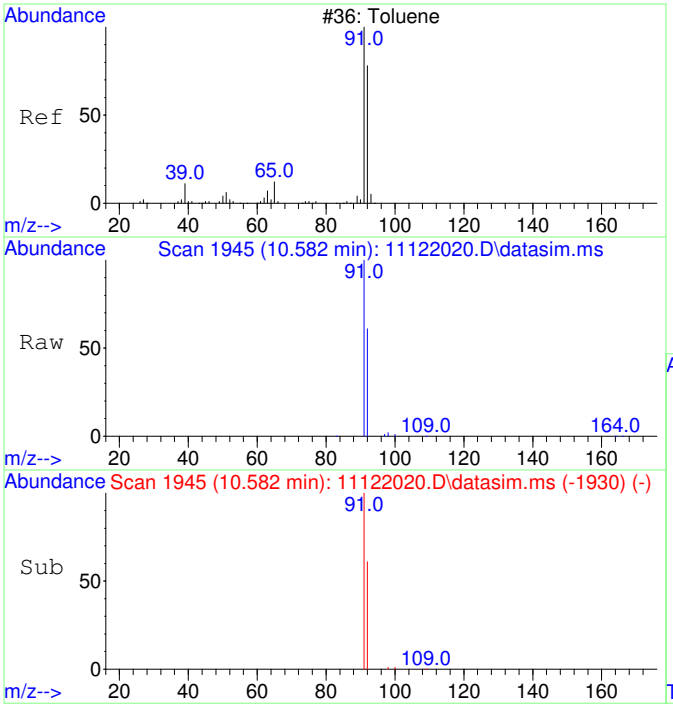


#12
Toluene-d8
Concen: 4360.77 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 98 Resp: 350481

Ion	Ratio	Lower	Upper
98	100		
100	66.9	37.1	97.1

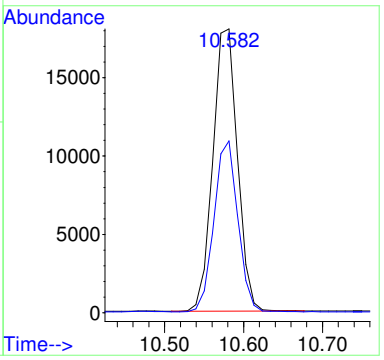


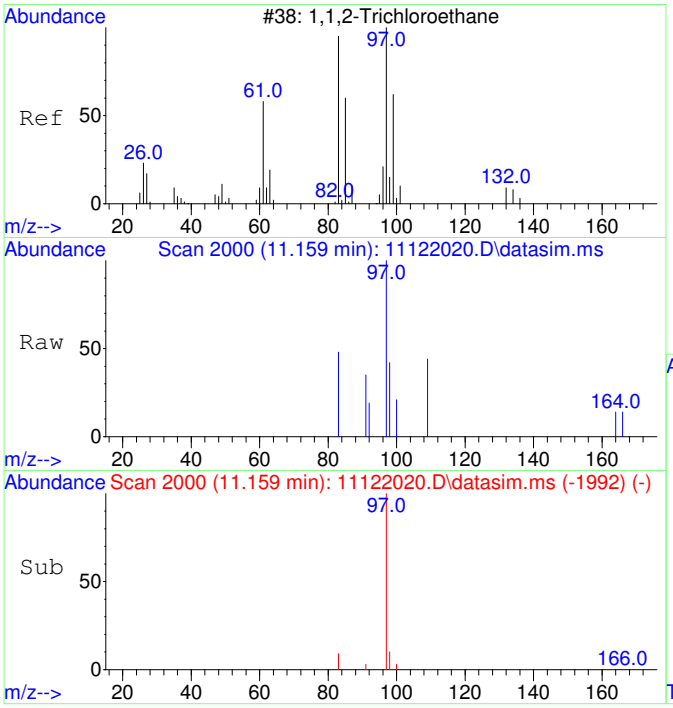


#13
Toluene
Concen: 379.76 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 38913

Ion	Ratio	Lower	Upper
91	100		
92	58.7	29.9	89.9

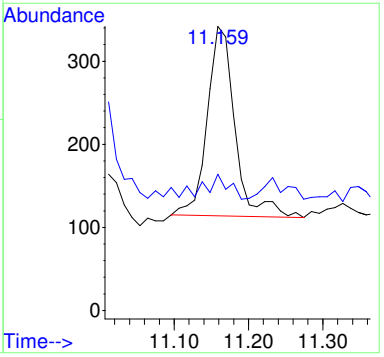


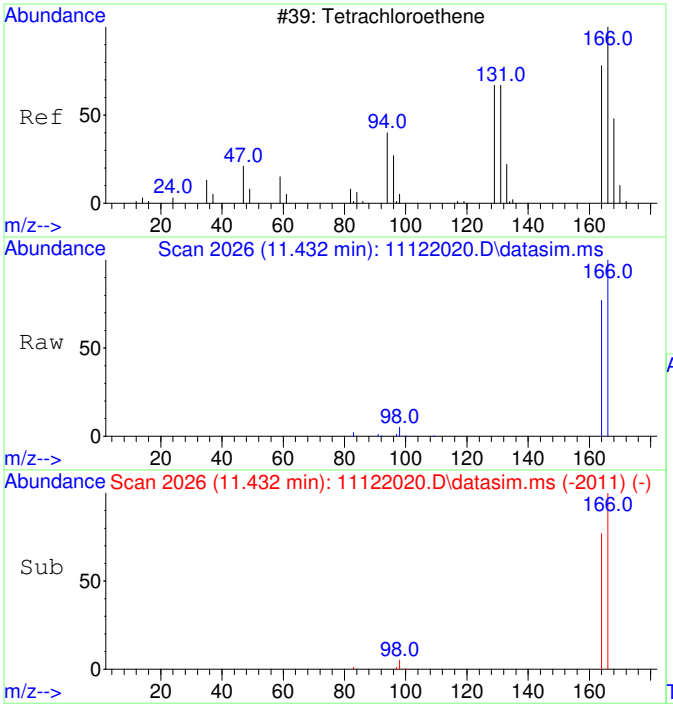


#14
1,1,2-Trichloroethane
Concen: 26.42 ug/L
RT: 11.159 min Scan# 2000
Delta R.T. -0.063 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 97 Resp: 590

Ion	Ratio	Lower	Upper
97	100		
83	10.8	51.2	111.2#

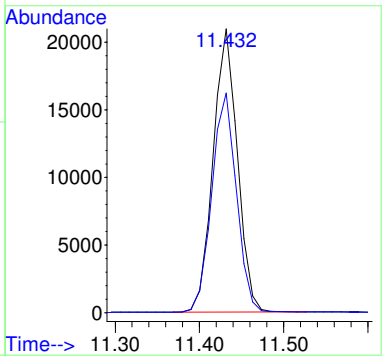


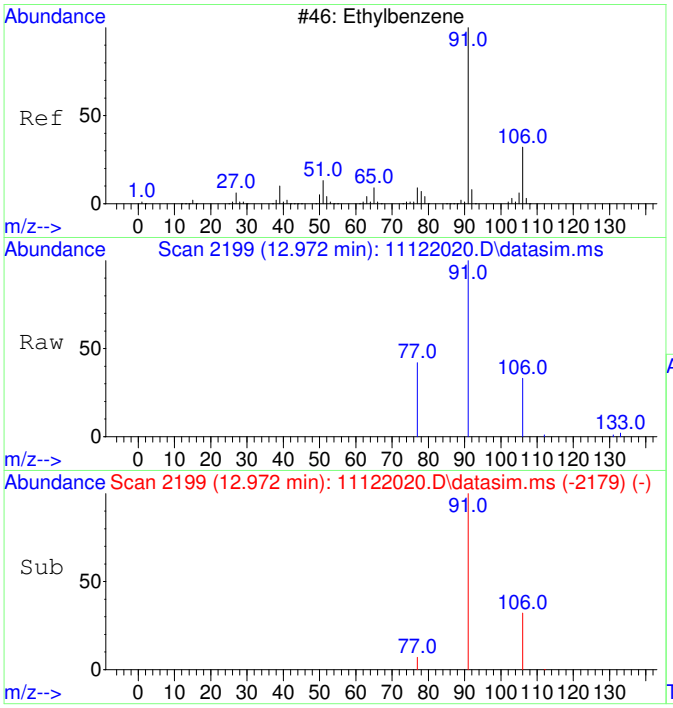


#15
Tetrachloroethene
Concen: 1413.22 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:166 Resp: 41907

Ion	Ratio	Lower	Upper
166	100		
164	78.4	47.8	107.8

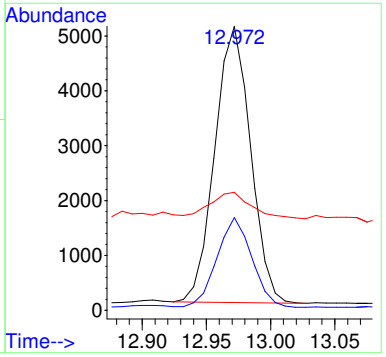


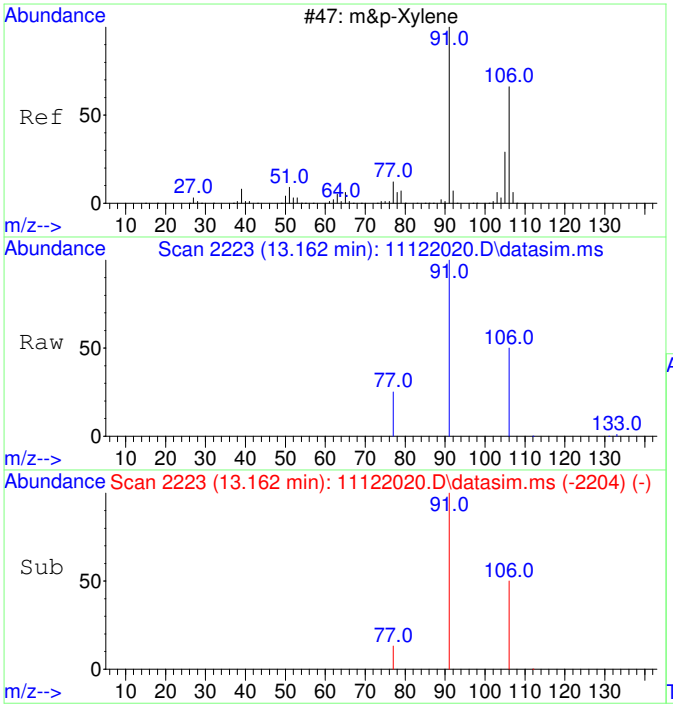


#18
Ethylbenzene
Concen: 77.78 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 9701

Ion	Ratio	Lower	Upper
91	100		
106	31.4	3.0	63.0
77	12.4	0.0	38.2

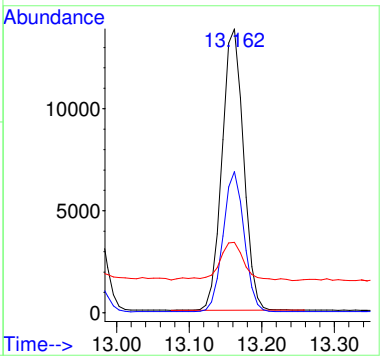


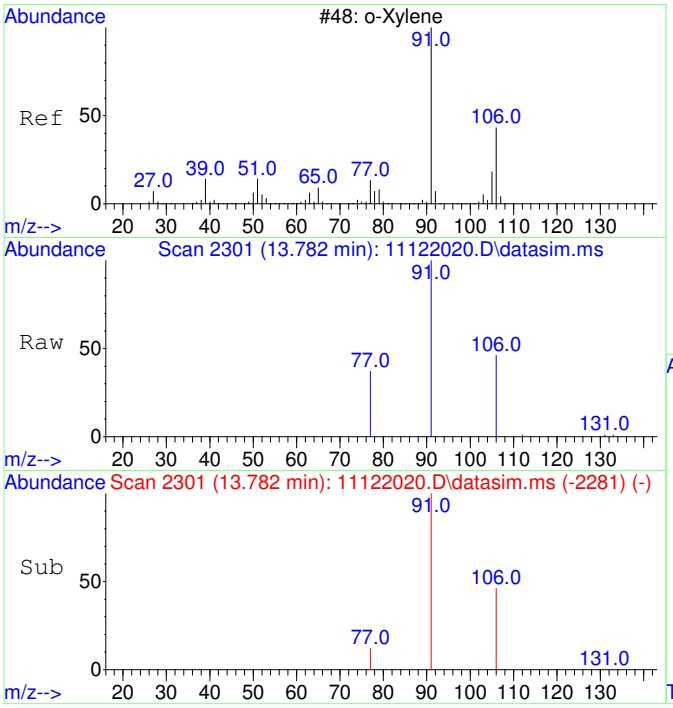


#19
m&p-Xylene
Concen: 290.33 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 28301

Ion	Ratio	Lower	Upper
91	100		
106	48.8	22.2	82.2
77	16.2	0.0	42.4

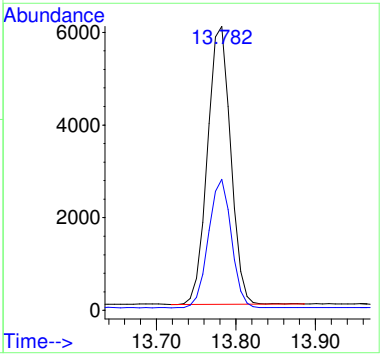


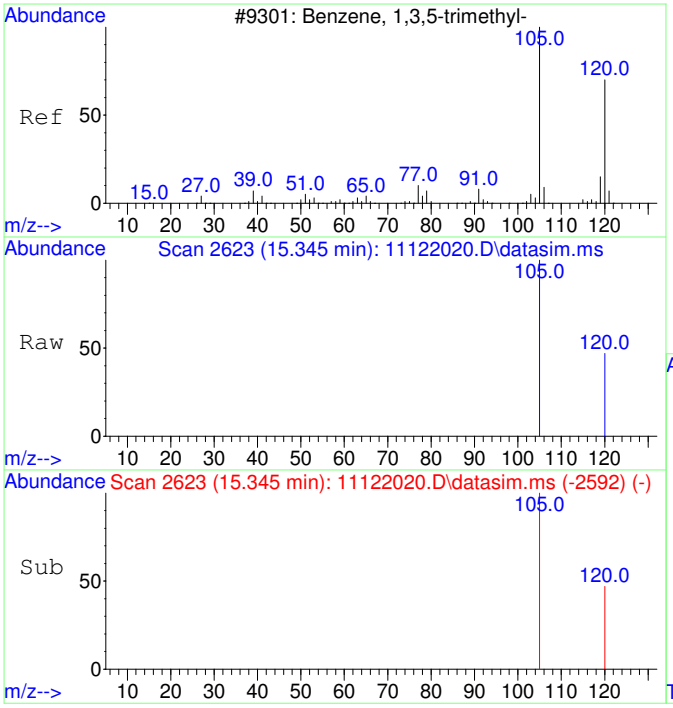


#20
o-Xylene
Concen: 116.63 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 12146

Ion	Ratio	Lower	Upper
91	100		
106	45.5	19.2	79.2

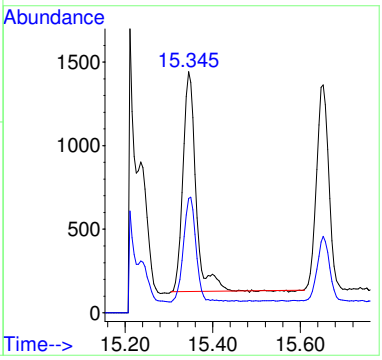


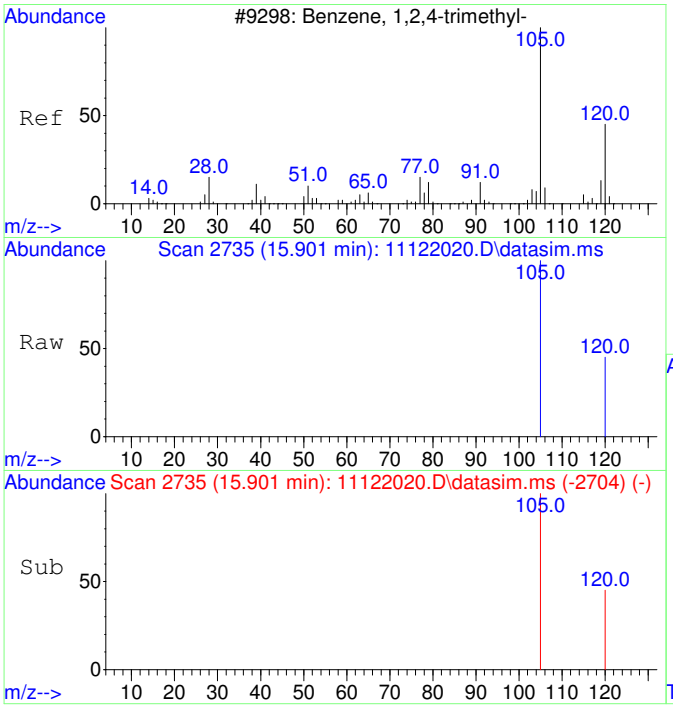


#22
1,3,5-Trimethylbenzene
Concen: 24.13 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:105 Resp: 2675

Ion	Ratio	Lower	Upper
105	100		
120	45.6	21.1	81.1

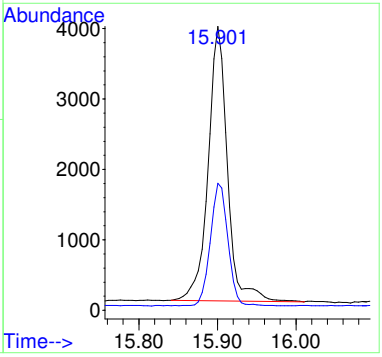


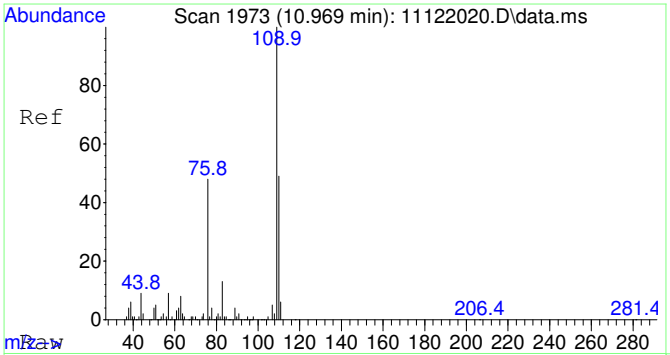


#23
1,2,4-Trimethylbenzene
Concen: 57.46 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:105 Resp: 6616

Ion	Ratio	Lower	Upper
105	100		
120	40.6	17.2	77.2

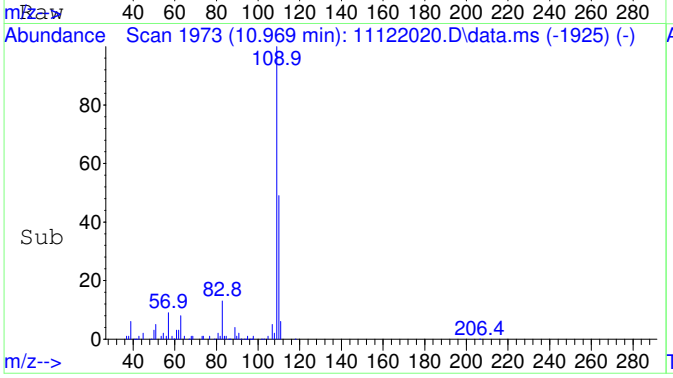


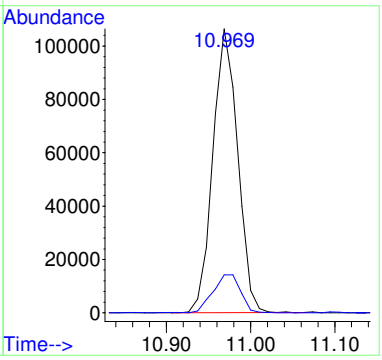


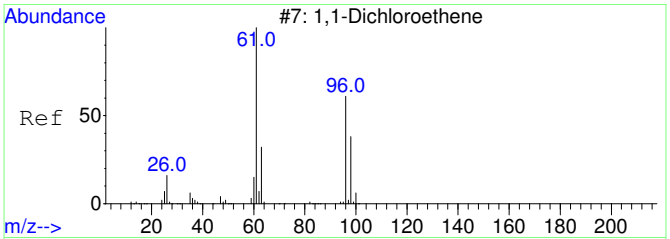
#25
2-Fluorotoluene SCAN
Concen: 5445.46 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

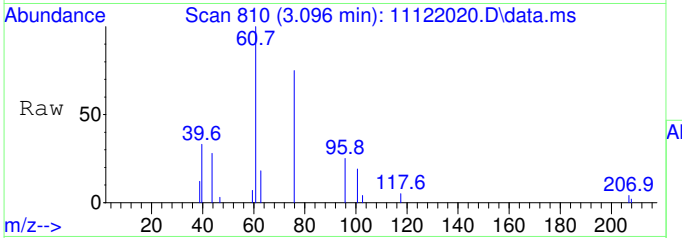
Tgt Ion:109 Resp: 217938

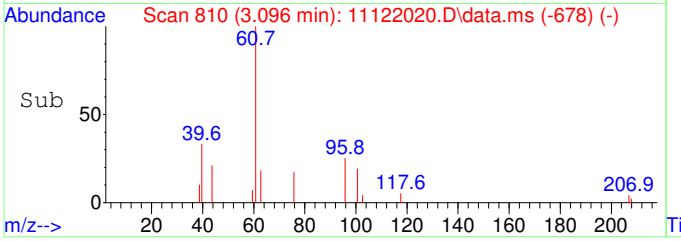
Ion	Ratio	Lower	Upper
109	100		
83	15.0	0.0	43.8







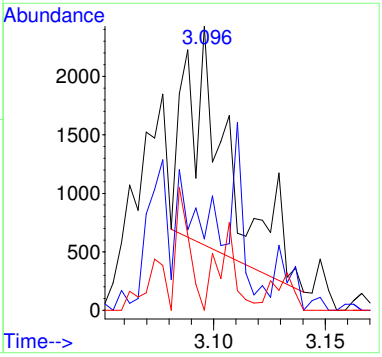


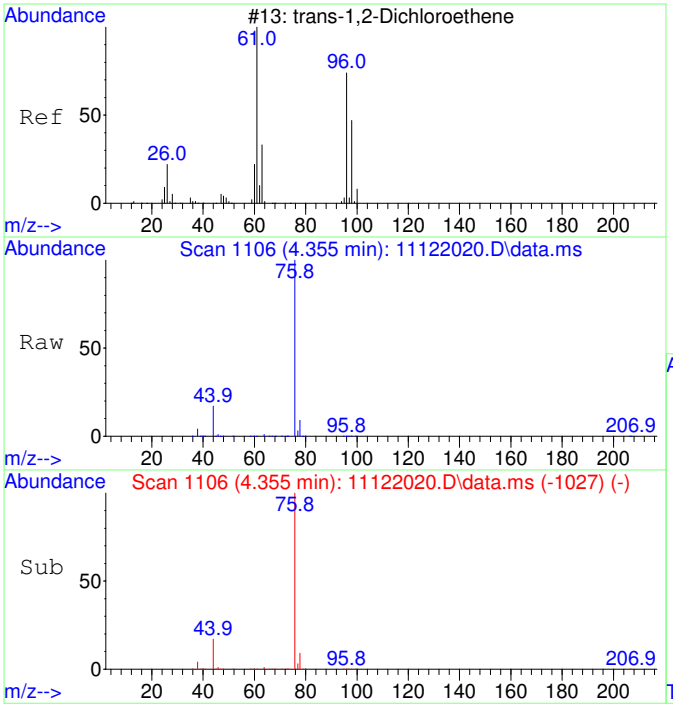


#26
1,1-Dichloroethene SCAN
Concen: 281.19 ug/L
RT: 3.096 min Scan# 810
Delta R.T. -0.011 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 61 Resp: 2390

Ion	Ratio	Lower	Upper
61	100		
96	22.9	33.1	93.1#
98	29.5	11.2	71.2

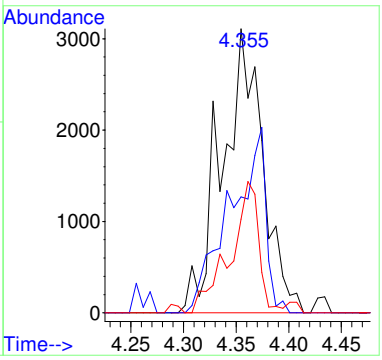


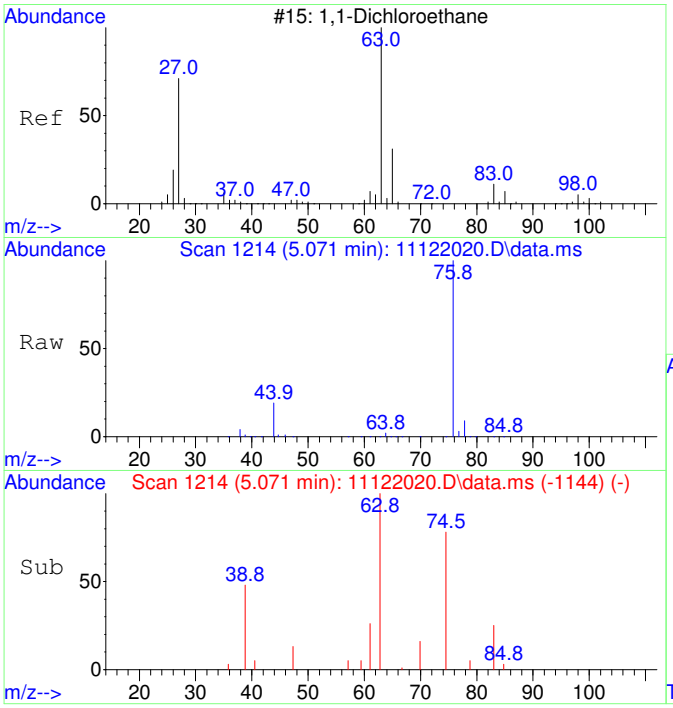


#27
trans-1,2-Dichloroethene SCAN
Concen: 798.19 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. -0.046 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 61 Resp: 8395

Ion	Ratio	Lower	Upper
61	100		
96	56.7	49.0	109.0
98	31.0	20.5	80.5

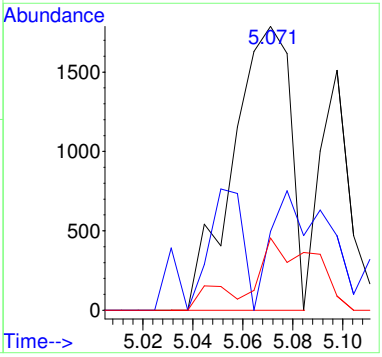


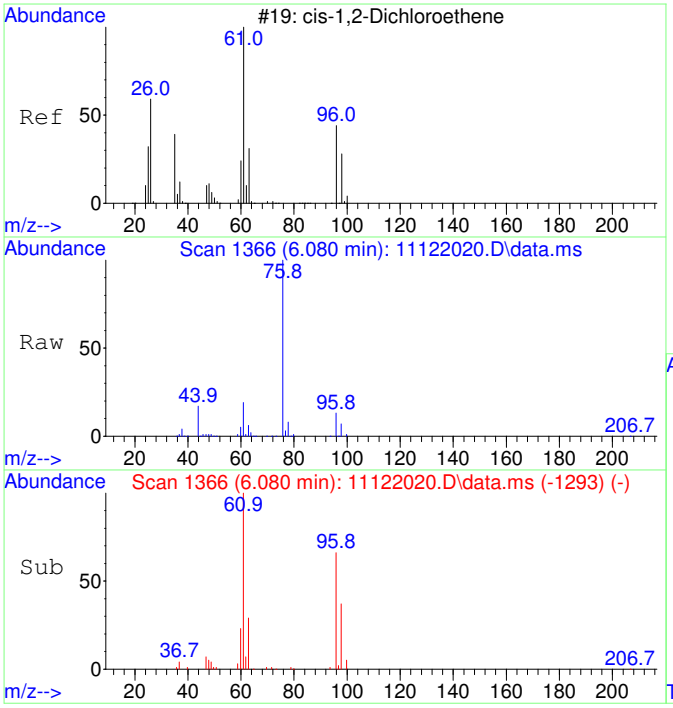


#28
1,1-Dichloroethane SCAN
Concen: 233.40 ug/L
RT: 5.071 min Scan# 1214
Delta R.T. -0.033 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 63 Resp: 2841

Ion	Ratio	Lower	Upper
63	100		
65	50.4	1.3	61.3
83	28.9	0.0	45.9

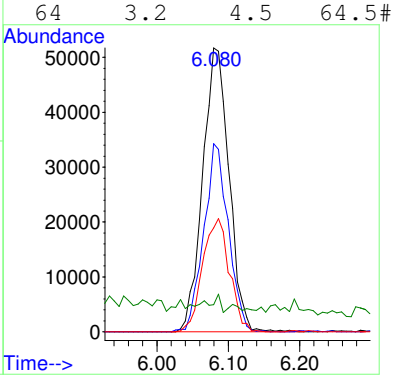


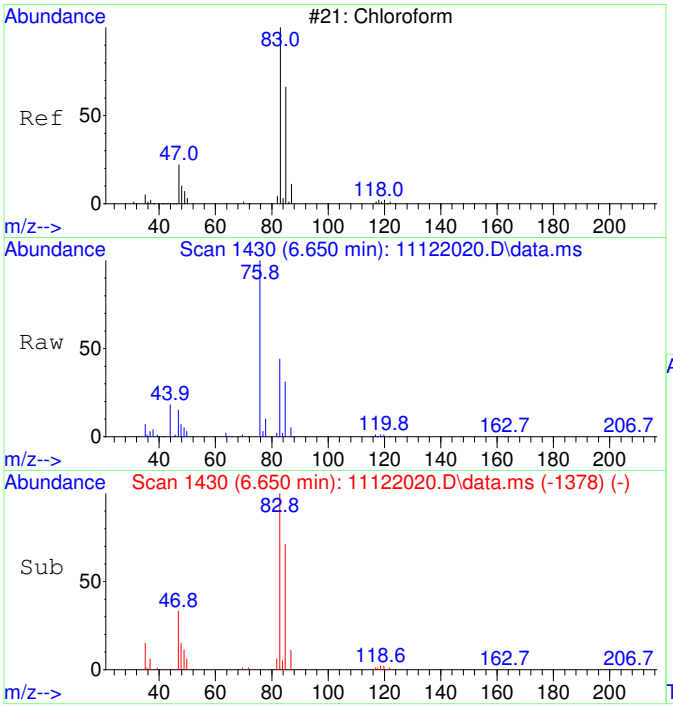


#29
cis-1,2-Dichloroethene SCAN
Concen: 10172.12 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. -0.013 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 61 Resp: 132656

Ion	Ratio	Lower	Upper
61	100		
96	61.8	39.9	99.9
98	40.6	13.5	73.5
64	3.2	4.5	64.5#

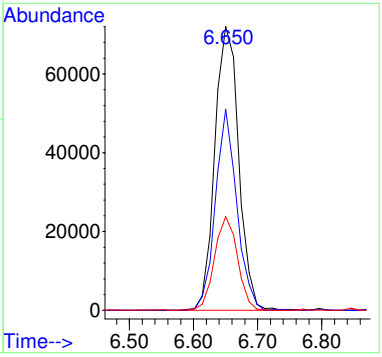


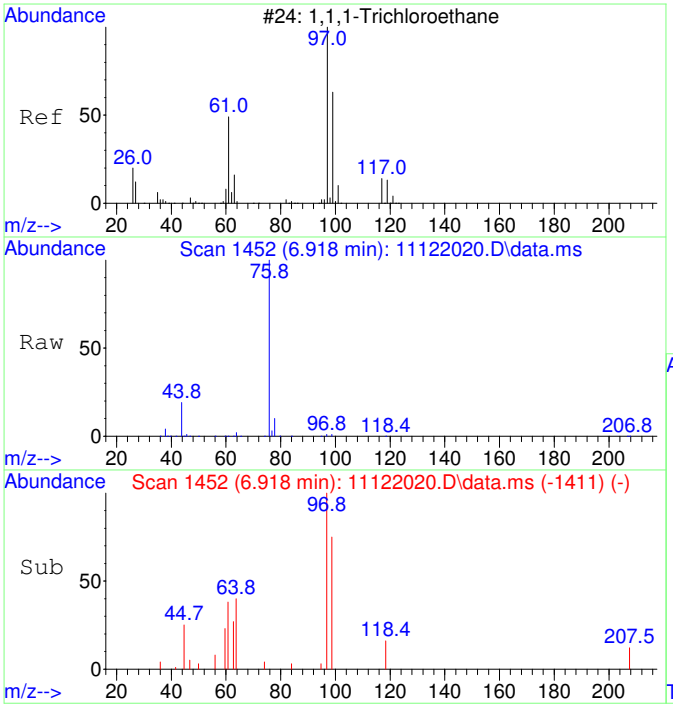


#30
Chloroform SCAN
Concen: 13167.19 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 83 Resp: 186249

Ion	Ratio	Lower	Upper
83	100		
85	63.7	34.6	94.6
47	31.8	0.0	53.4

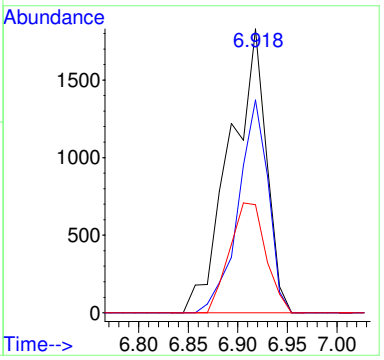


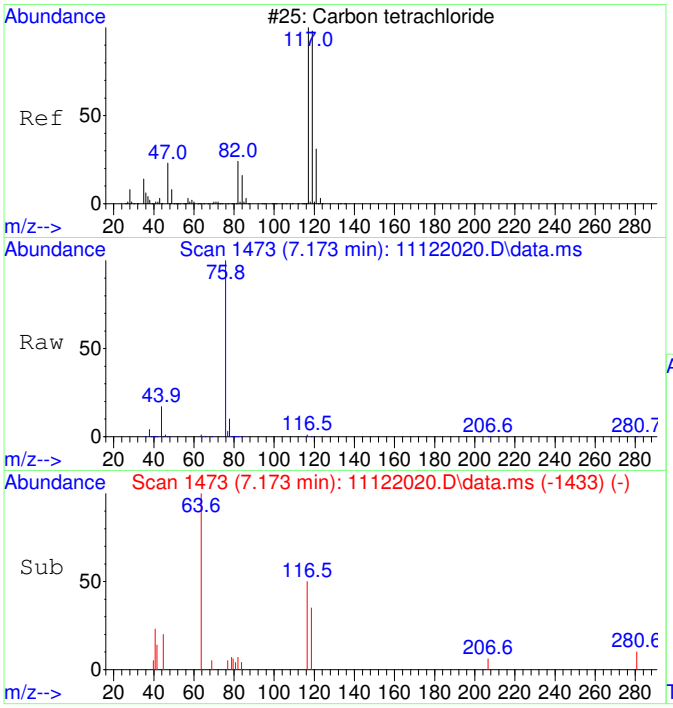


#31
1,1,1-Trichloroethane SCAN
Concen: 363.61 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 97 Resp: 4687

Ion	Ratio	Lower	Upper
97	100		
99	61.4	43.6	103.6
61	38.6	18.0	78.0

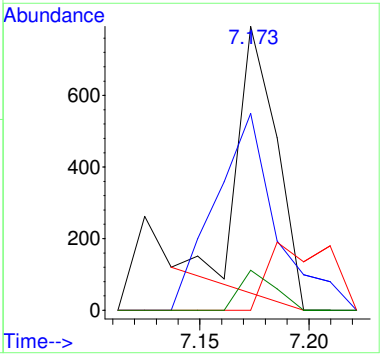


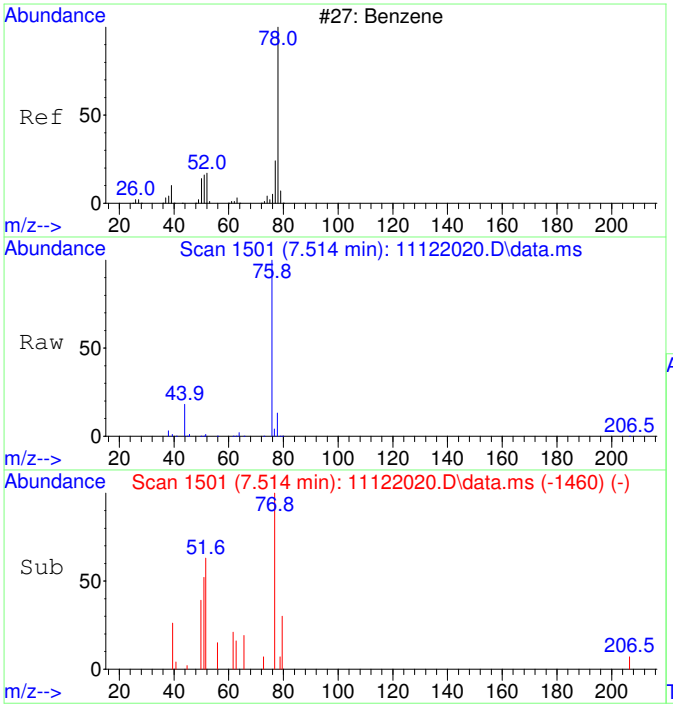


#32
Carbon tetrachloride SCAN
Concen: 65.82 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:117 Resp: 885

Ion	Ratio	Lower	Upper
117	100		
119	122.1	75.5	135.5
121	41.7	0.0	58.8
82	14.2	0.0	59.2

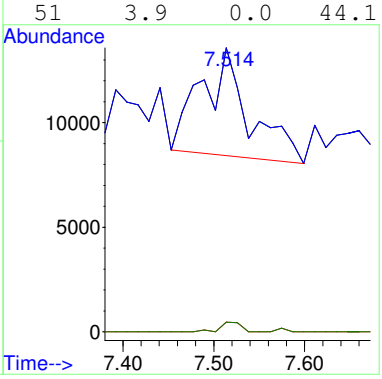


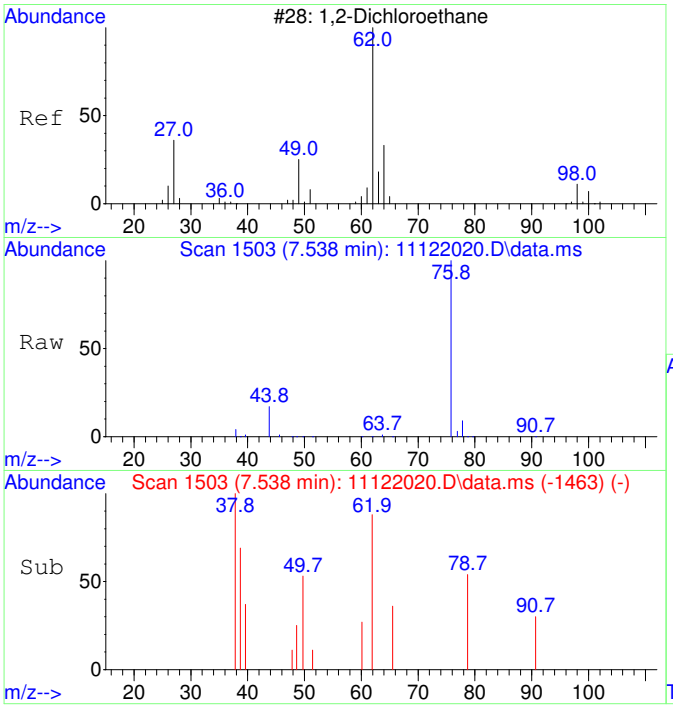


#33
Benzene SCAN
Concen: 526.92 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 78 Resp: 18701

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.9	0.0	47.9
51	3.9	0.0	44.1

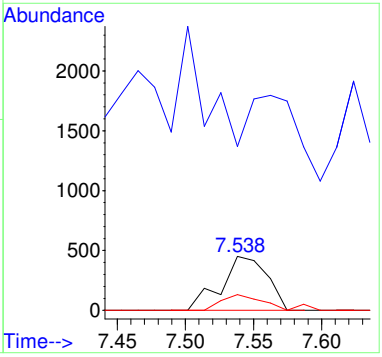


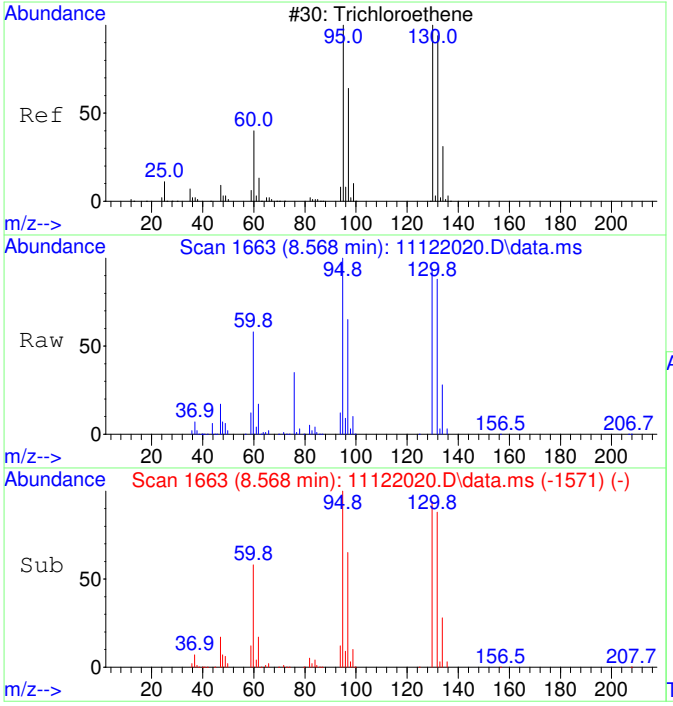


#34
1,2-Dichloroethane SCAN
Concen: 80.73 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. -0.012 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 62 Resp: 1058

Ion	Ratio	Lower	Upper
62	100		
64	0.0	5.2	65.2#
49	29.0	3.9	63.9

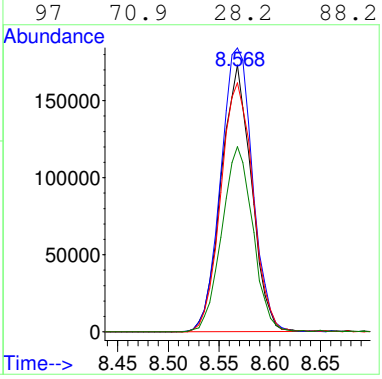


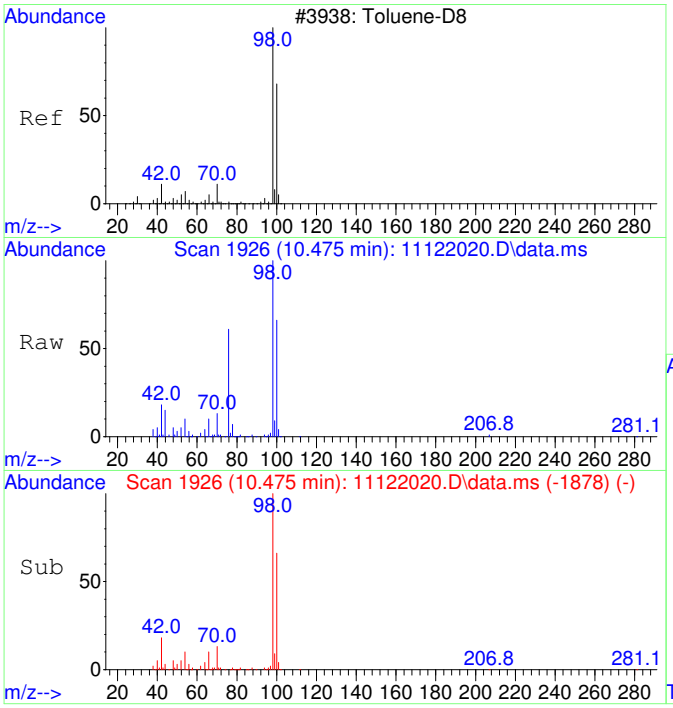


#35
Trichloroethene SCAN
Concen: 36885.16 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:130 Resp: 359747

Ion	Ratio	Lower	Upper
130	100		
95	111.9	60.5	120.5
132	99.1	59.6	119.6
97	70.9	28.2	88.2

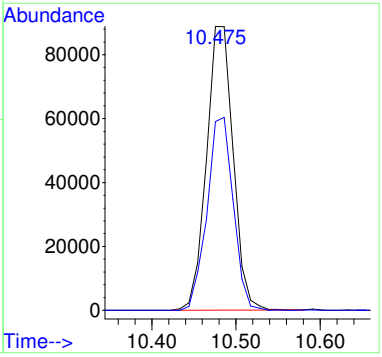


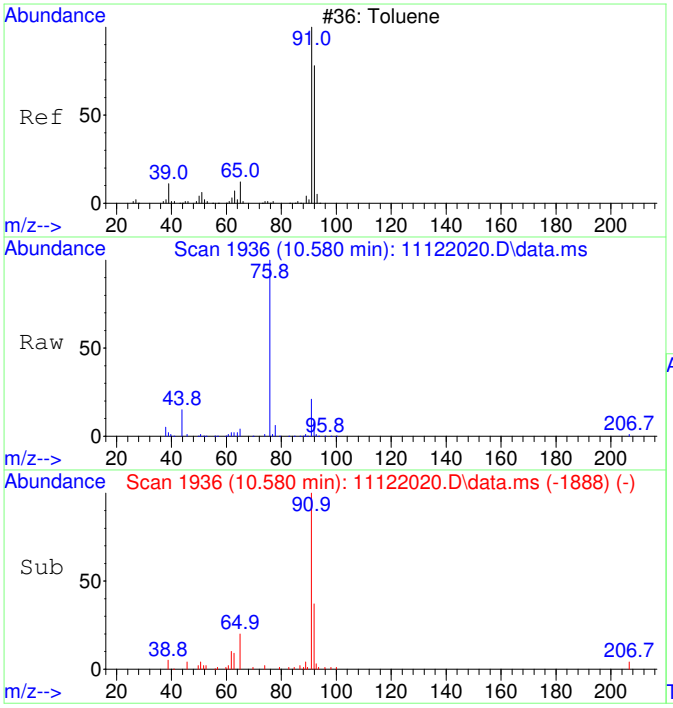


#36
Toluene-d8 SCAN
Concen: 5013.33 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 98 Resp: 196223

Ion	Ratio	Lower	Upper
98	100		
100	66.7	40.0	100.0

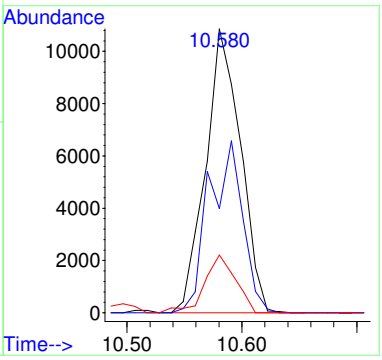


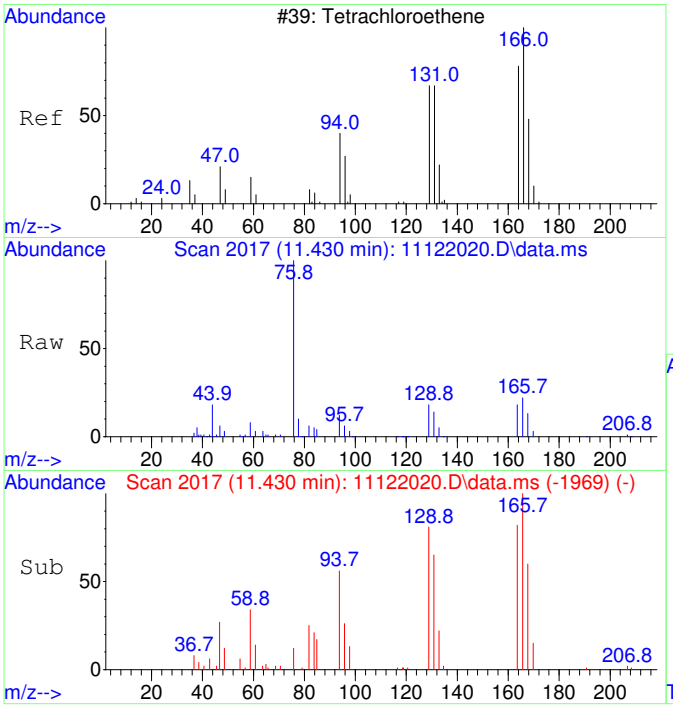


#37
Toluene SCAN
Concen: 459.35 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 23025

Ion	Ratio	Lower	Upper
91	100		
92	58.6	28.3	88.3
65	18.0	0.0	41.0

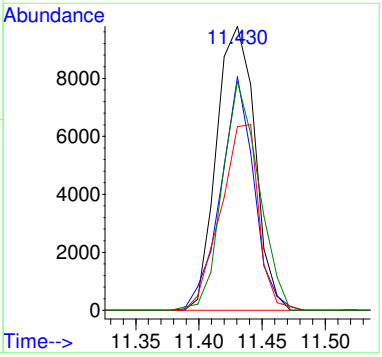


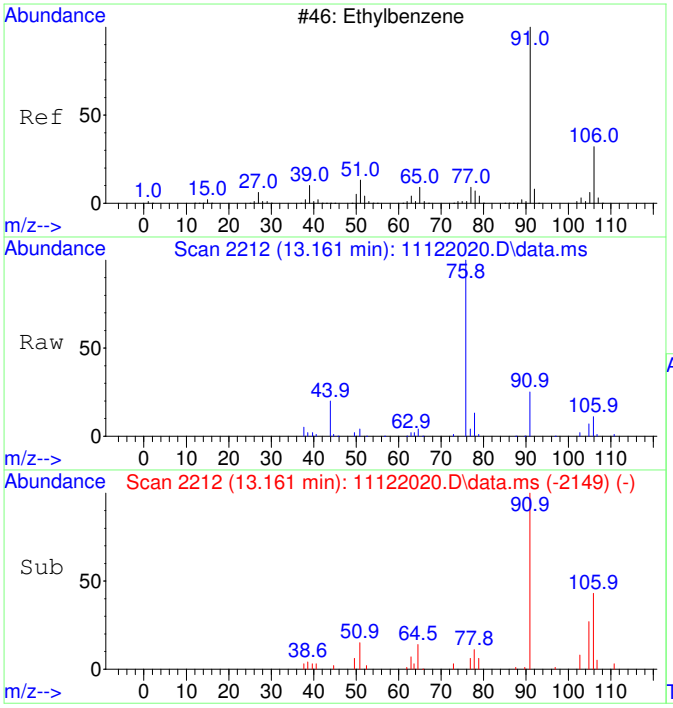


#39
Tetrachloroethene SCAN
Concen: 1722.01 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:166 Resp: 20737

Ion	Ratio	Lower	Upper
166	100		
164	71.4	50.9	110.9
131	64.5	38.7	98.7
129	76.0	41.8	101.8

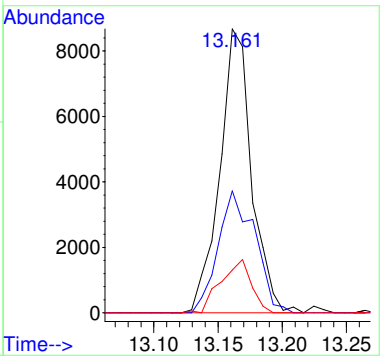


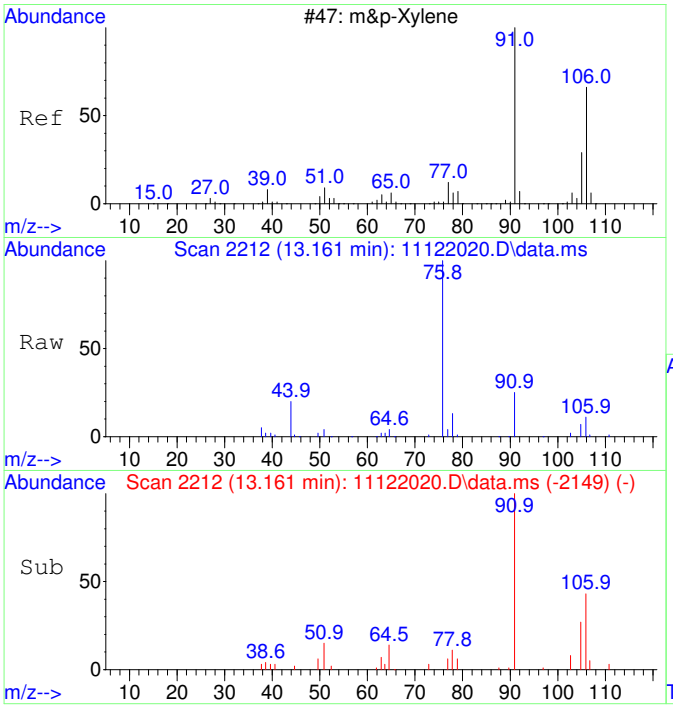


#42
Ethylbenzene SCAN
Concen: 163.35 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 14917

Ion	Ratio	Lower	Upper
91	100		
106	49.7	23.1	83.1
51	18.0	0.0	40.1

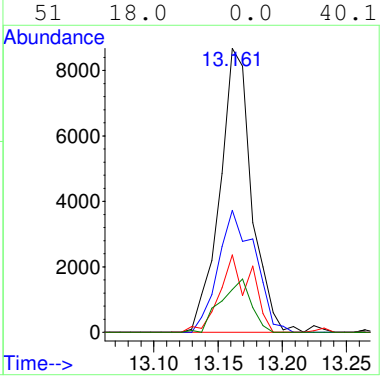


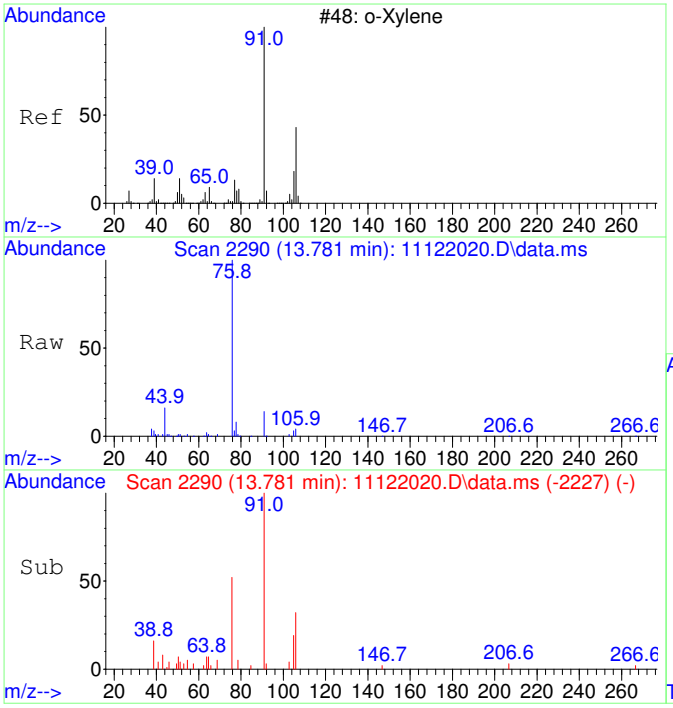


#43
m&p-Xylene SCAN
Concen: 163.35 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 14917

Ion	Ratio	Lower	Upper
91	100		
106	49.7	23.1	83.1
105	26.8	0.0	54.7
51	18.0	0.0	40.1

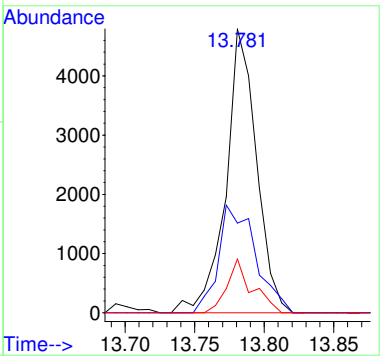


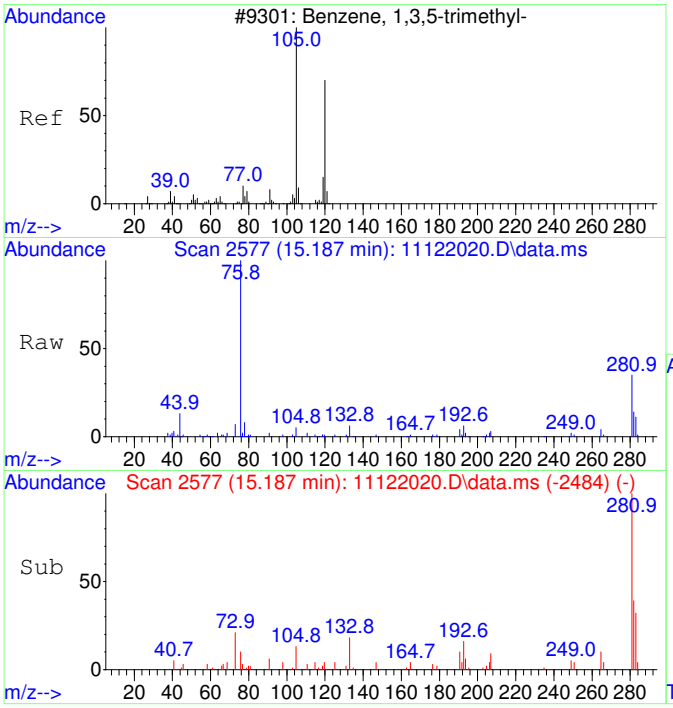


#44
o-Xylene SCAN
Concen: 150.16 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.000 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion: 91 Resp: 7340

Ion	Ratio	Lower	Upper
91	100		
106	45.9	18.0	78.0
105	15.4	0.0	56.6

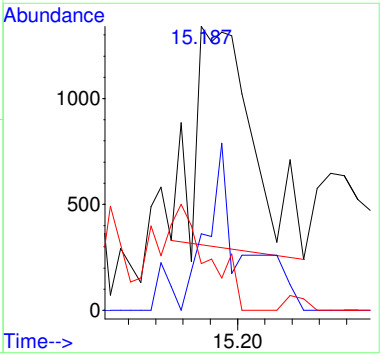




#46
1,3,5-Trimethylbenzene SCAN
Concen: 32.73 ug/L
RT: 15.187 min Scan# 2577
Delta R.T. -0.157 min
Lab File: 11122020.D
Acq: 12 Nov 2020 15:57

Tgt Ion:105 Resp: 1686

Ion	Ratio	Lower	Upper
105	100		
120	44.4	18.3	78.3
119	29.8	0.0	43.1



2011015-13

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122021.D
Acq On : 12 Nov 2020 16:21
InstName : AG5975C
Operator : TD
Sample : 2011015-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 13 06:13:32 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

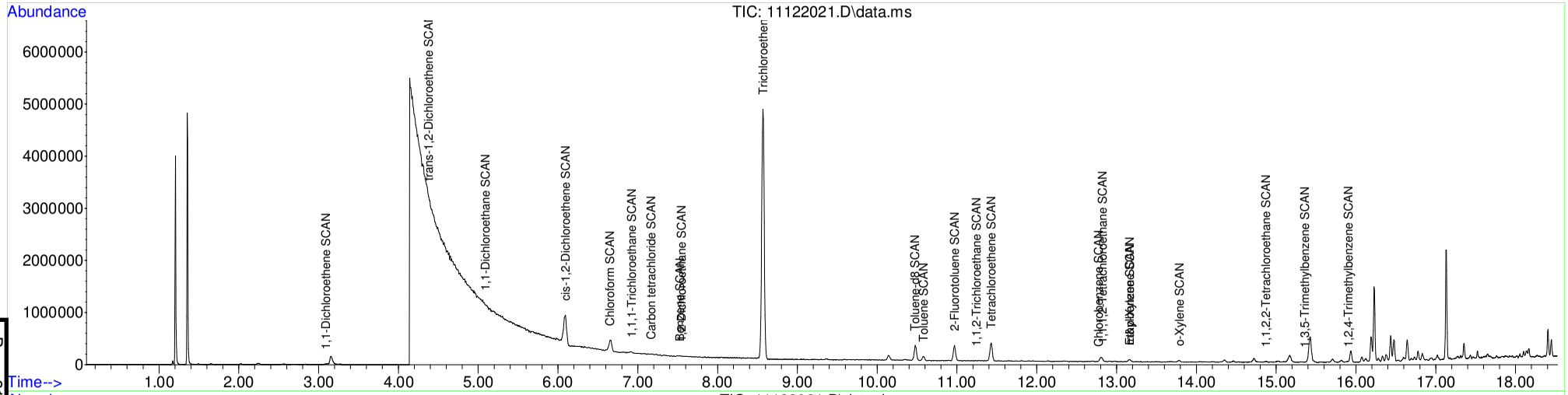
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	447484	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	385007	4395.07 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.90%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.093	61	25483	1426.12 ug/L	81
3] trans-1,2-Dichloroethene	4.376	61	51983	2517.94 ug/L	98
4] 1,1-Dichloroethane	5.086	63	30351	1181.01 ug/L	98
5] cis-1,2-Dichloroethene	6.088	61	833839	30738.16 ug/L OC	99
6] Chloroform	6.652	83	338825	12203.01 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	33959	1126.19 ug/L	99
8] Carbon tetrachloride	7.187	117	2972	104.72 ug/L	97
9] Benzene	7.503	78	8928	117.43 ug/L	56
10] 1,2-Dichloroethane	7.539	62	8489	312.77 ug/L	74
11] Trichloroethene	8.569	130	3255827	142227.74 ug/L OC	92
13] Toluene	10.571	91	115402	1033.31 ug/L	99
15] Tetrachloroethene	11.432	166	239321	7404.63 ug/L	100
16] Chlorobenzene	12.765	112	1682	21.03 ug/L #	34
18] Ethylbenzene	12.972	91	12806	94.20 ug/L	96
19] m&p-Xylene	13.162	91	56705	533.72 ug/L	95
20] o-Xylene	13.774	91	38468	338.90 ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.866	83	2135	42.44 ug/L #	23
22] 1,3,5-Trimethylbenzene	15.345	105	3162	26.17 ug/L	96
23] 1,2,4-Trimethylbenzene	15.901	105	4869	38.80 ug/L	93
25) 2-Fluorotoluene SCAN	10.969	109	231865	5315.39 ug/L	97
26) 1,1-Dichloroethene SCAN	3.088	61	15145	1634.84 ug/L #	52
27) trans-1,2-Dichloroethe...	4.374	61	33576	2928.96 ug/L	78
28) 1,1-Dichloroethane SCAN	5.091	63	21794	1642.76 ug/L	90
29) cis-1,2-Dichloroethene...	6.093	61	493635	34728.71 ug/L #	82
30) Chloroform SCAN	6.650	83	201515	13070.87 ug/L	96
31) 1,1,1-Trichloroethane ...	6.918	97	21257	1513.03 ug/L	85
32) Carbon tetrachloride SCAN	7.161	117	1468	100.17 ug/L #	15
33) Benzene SCAN	7.526	78	13236	342.17 ug/L	93
34) 1,2-Dichloroethane SCAN	7.550	62	7260	508.27 ug/L	72
35) Trichloroethene SCAN	8.568	130	1684649	158475.43 ug/L	84
36) Toluene-d8 SCAN	10.475	98	211276	4952.50 ug/L	95
37) Toluene SCAN	10.580	91	64885	1187.65 ug/L	99
38) 1,1,2-Trichloroethane ...	11.242	97	377	30.74 ug/L #	29
39) Tetrachloroethene SCAN	11.430	166	113242	8627.69 ug/L	95
40) Chlorobenzene SCAN	12.772	112	816	21.86 ug/L #	40
41) 1,1,1,2-Tetrachloroeth...	12.820	131	2600	188.19 ug/L #	3
42) Ethylbenzene SCAN	13.161	91	30103	302.45 ug/L	95
43) m&p-Xylene SCAN	13.161	91	30103	302.45 ug/L	96
44) o-Xylene SCAN	13.789	91	20922	392.70 ug/L	93
45) 1,1,2,2-Tetrachloroeth...	14.872	83	587	22.60 ug/L #	42
46) 1,3,5-Trimethylbenzene...	15.353	105	2097	37.35 ug/L	88
47) 1,2,4-Trimethylbenzene...	15.899	105	4258	74.11 ug/L	78

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122021.D
Acq On : 12 Nov 2020 16:21
InstName : AG5975C
Operator : TD
Sample : 2011015-13
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 13 06:13:32 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



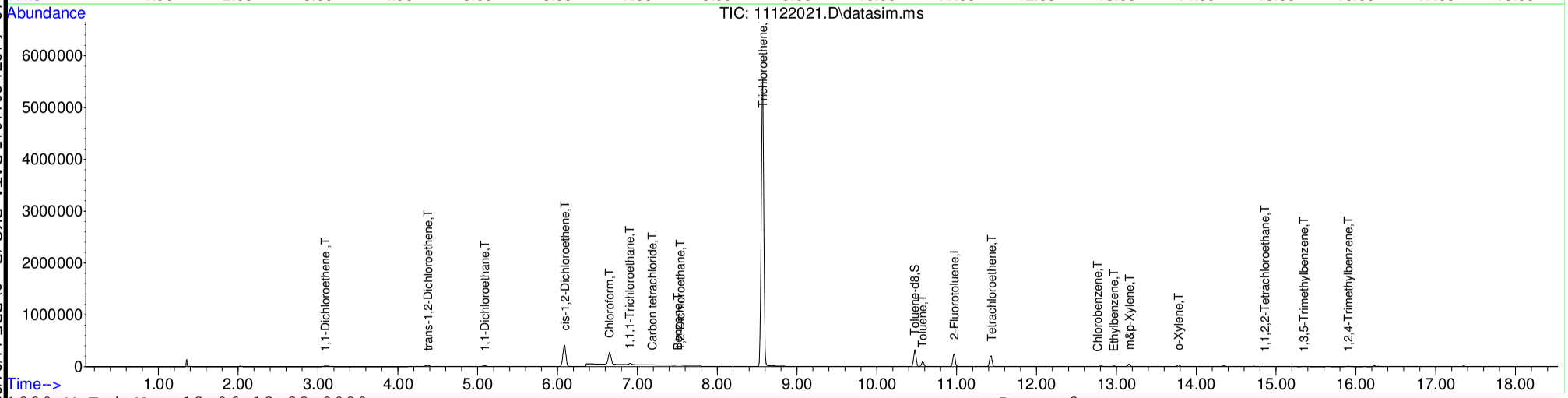
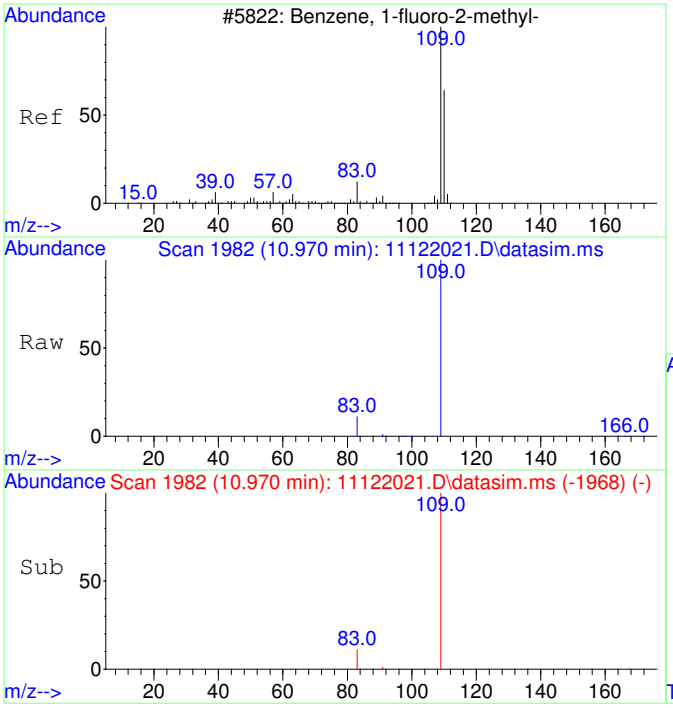


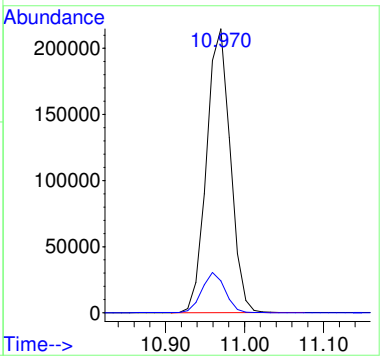
Table of Contents

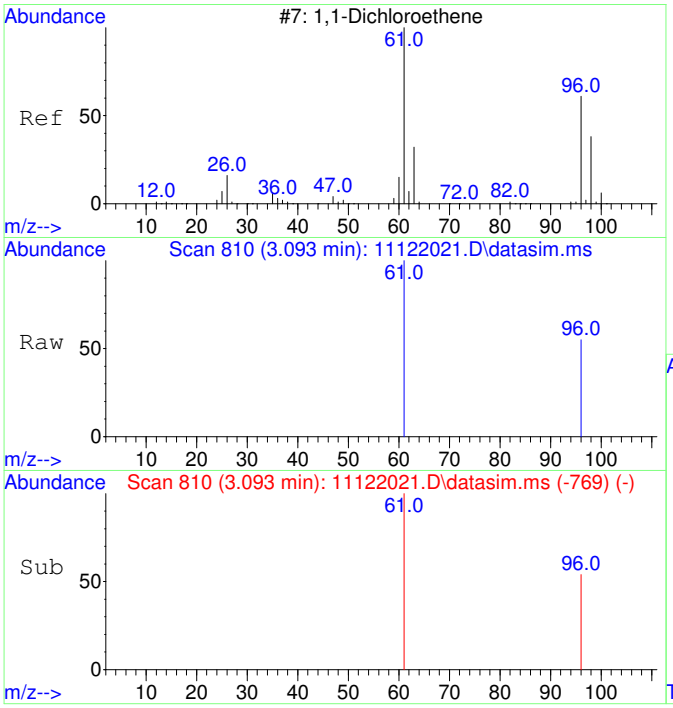


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:109 Resp: 447484

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

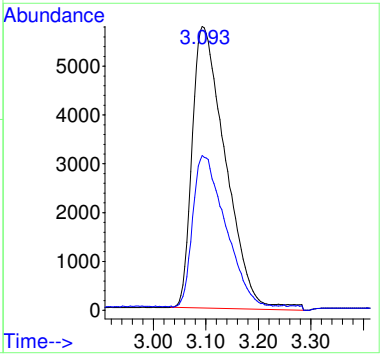


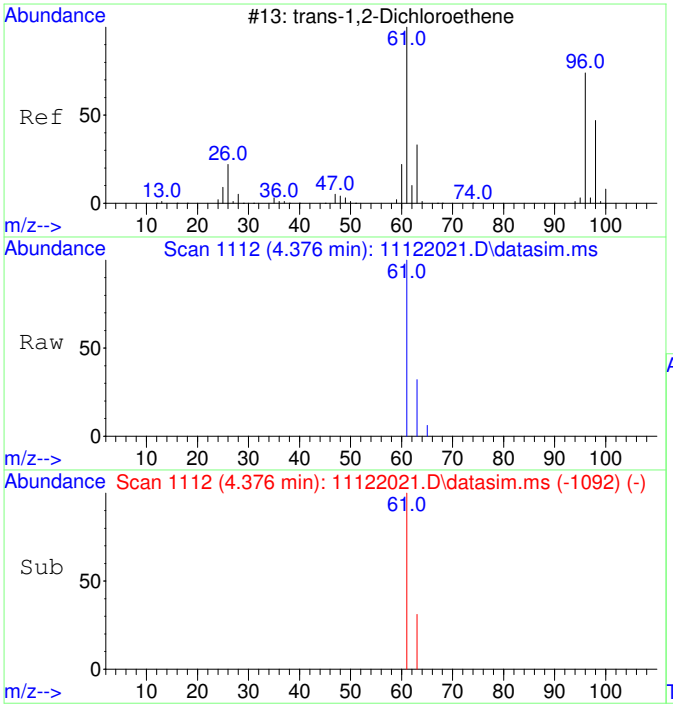


#2
1,1-Dichloroethene
Concen: 1426.12 ug/L
RT: 3.093 min Scan# 810
Delta R.T. 0.004 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 61 Resp: 25483

Ion	Ratio	Lower	Upper
61	100		
96	52.2	37.2	97.2

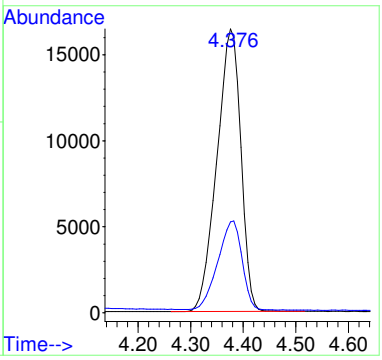


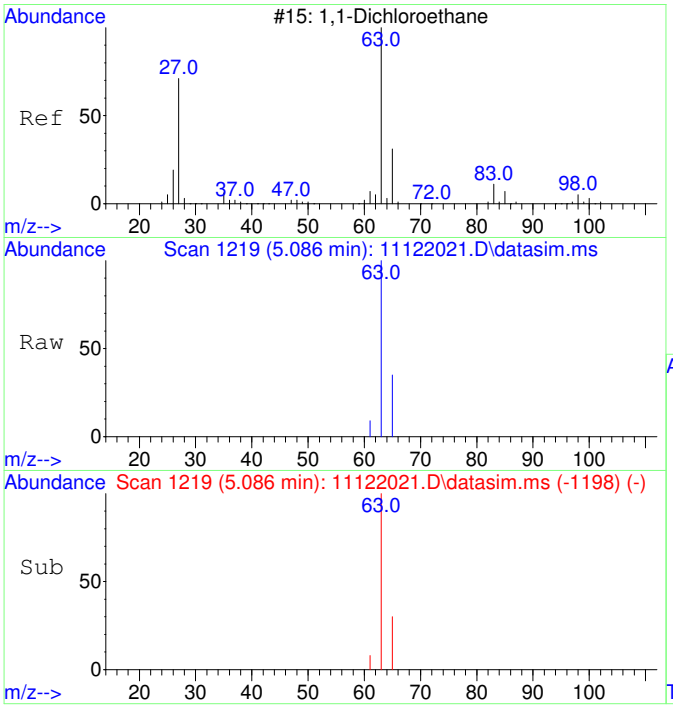


#3
trans-1,2-Dichloroethene
Concen: 2517.94 ug/L
RT: 4.376 min Scan# 1112
Delta R.T. -0.020 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 61 Resp: 51983

Ion	Ratio	Lower	Upper
61	100		
63	31.5	2.4	62.4

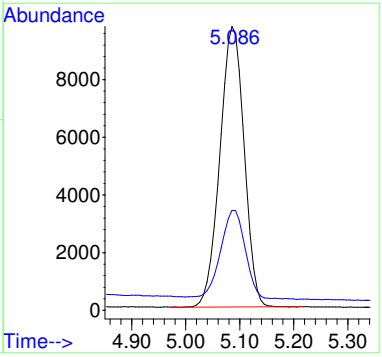


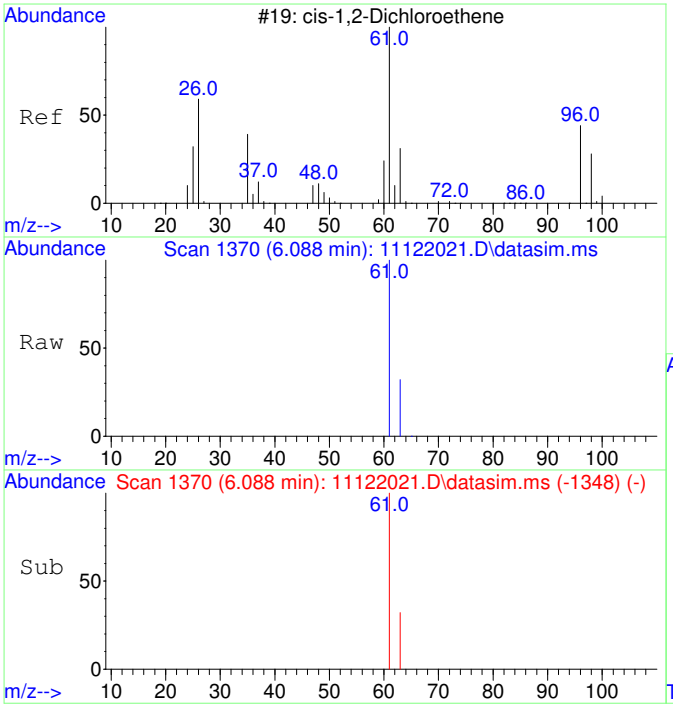


#4
1,1-Dichloroethane
Concen: 1181.01 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. -0.013 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 63 Resp: 30351

Ion	Ratio	Lower	Upper
63	100		
65	33.2	1.8	61.8

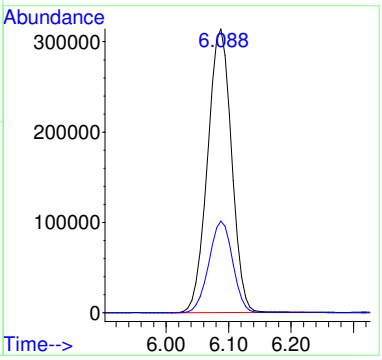


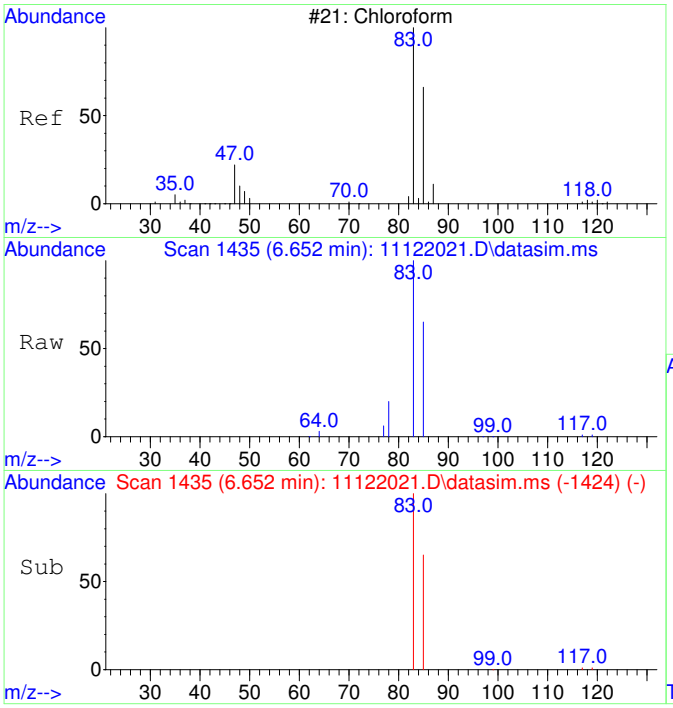


#5
cis-1,2-Dichloroethene
Concen: 30738.16 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 61 Resp: 833839

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.5	62.5

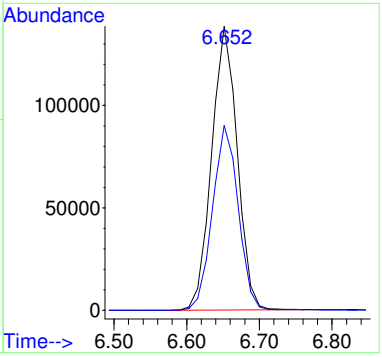


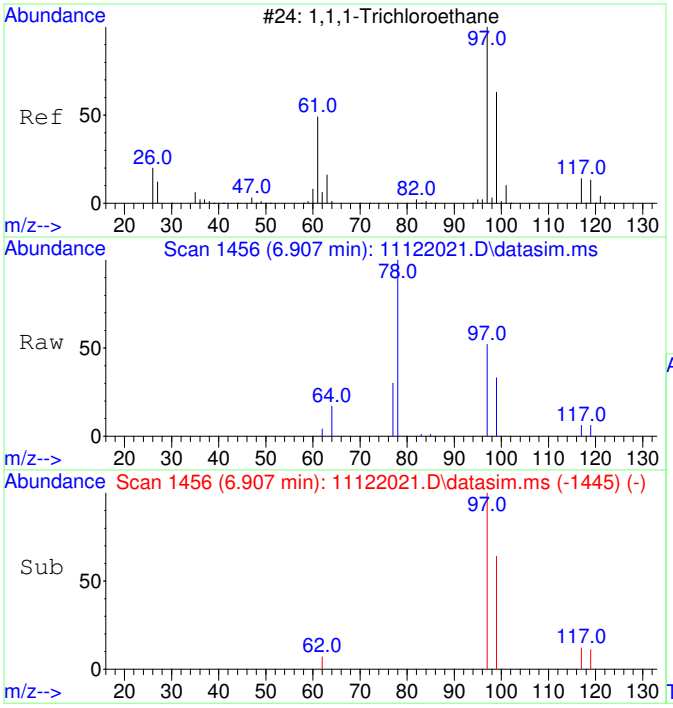


#6
Chloroform
Concen: 12203.01 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 83 Resp: 338825

Ion	Ratio	Lower	Upper
83	100		
85	65.2	35.1	95.1

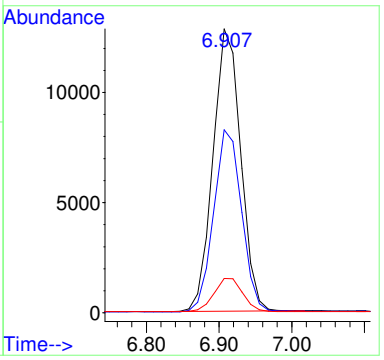


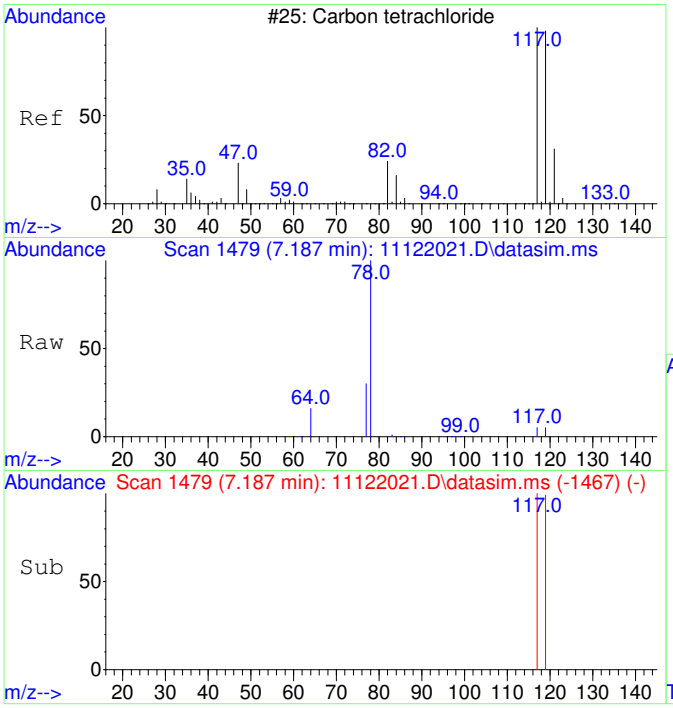


#7
1,1,1-Trichloroethane
Concen: 1126.19 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 97 Resp: 33959

Ion	Ratio	Lower	Upper
97	100		
99	64.7	34.6	94.6
117	12.1	0.0	43.2

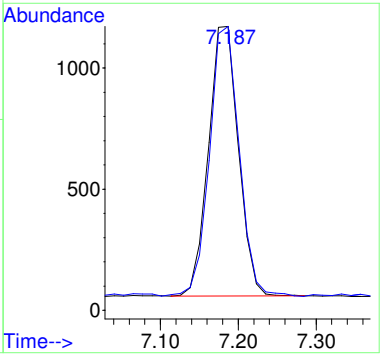


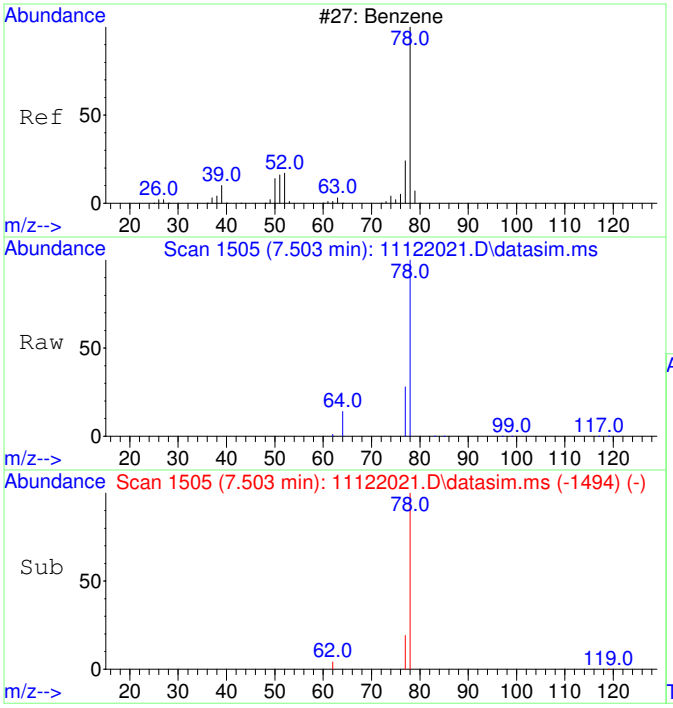


#8
Carbon tetrachloride
Concen: 104.72 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:117 Resp: 2972

Ion	Ratio	Lower	Upper
117	100		
119	99.0	66.4	126.4

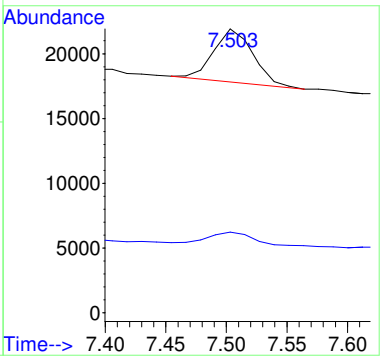


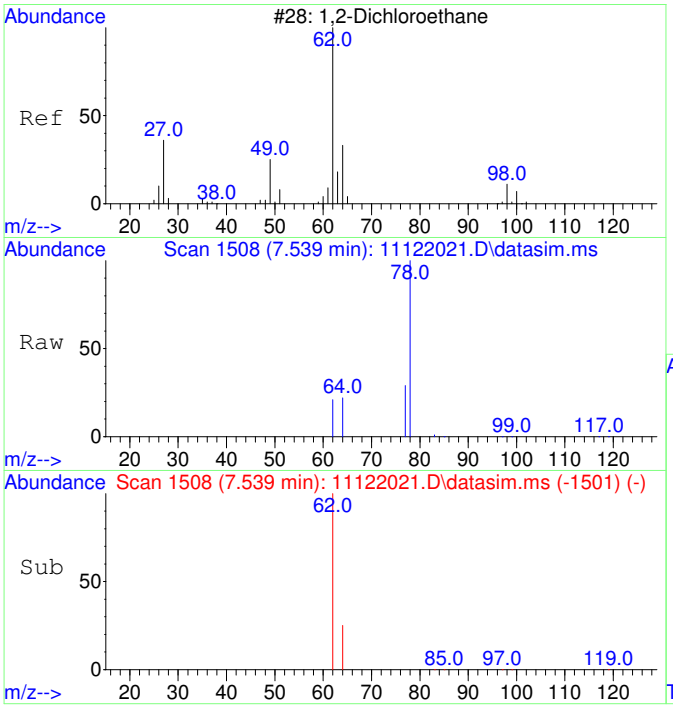


#9
Benzene
Concen: 117.43 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 78 Resp: 8928

Ion	Ratio	Lower	Upper
78	100		
77	44.6	0.0	53.2

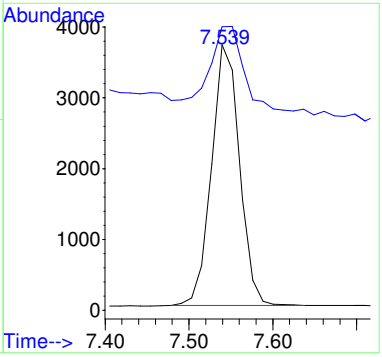


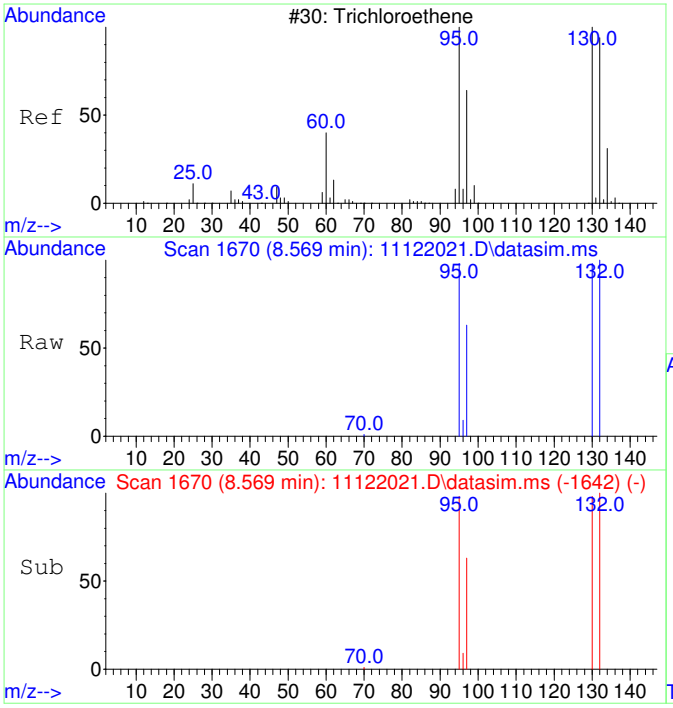


#10
1,2-Dichloroethane
Concen: 312.77 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 62 Resp: 8489

Ion	Ratio	Lower	Upper
62	100		
64	46.7	2.3	62.3

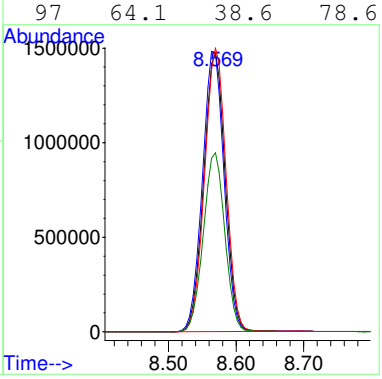


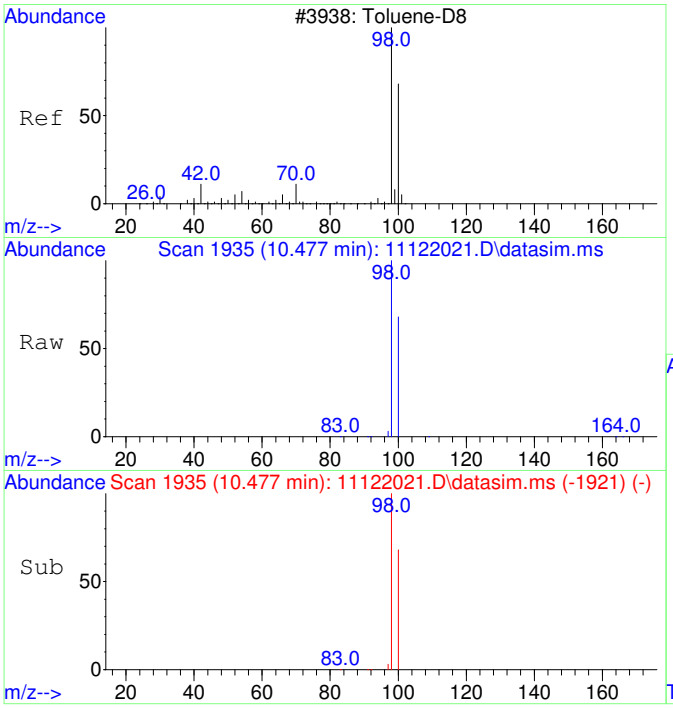


#11
Trichloroethene
Concen: 142227.74 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:130 Resp: 3255827

Ion	Ratio	Lower	Upper
130	100		
95	100.9	60.7	120.7
132	101.4	76.0	116.0
97	64.1	38.6	78.6

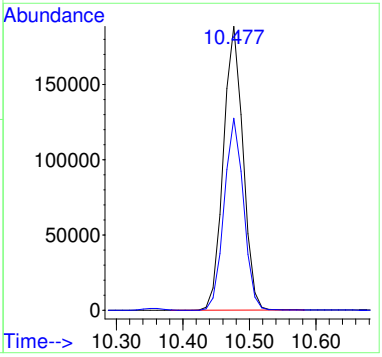


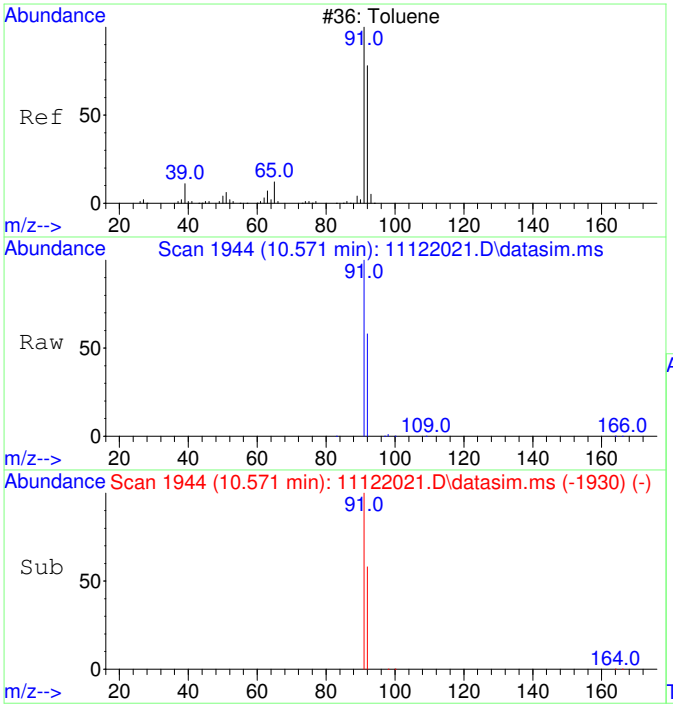


#12
Toluene-d8
Concen: 4395.07 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 98 Resp: 385007

Ion	Ratio	Lower	Upper
98	100		
100	66.8	37.1	97.1

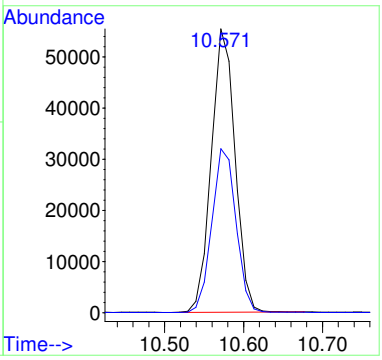


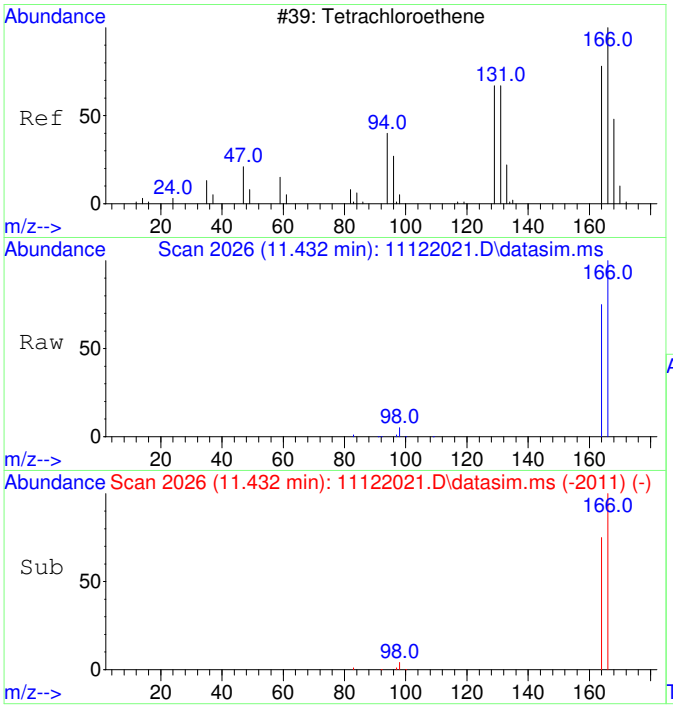


#13
Toluene
Concen: 1033.31 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 91 Resp: 115402

Ion	Ratio	Lower	Upper
91	100		
92	58.8	29.9	89.9

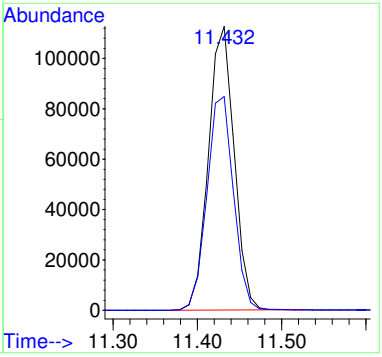


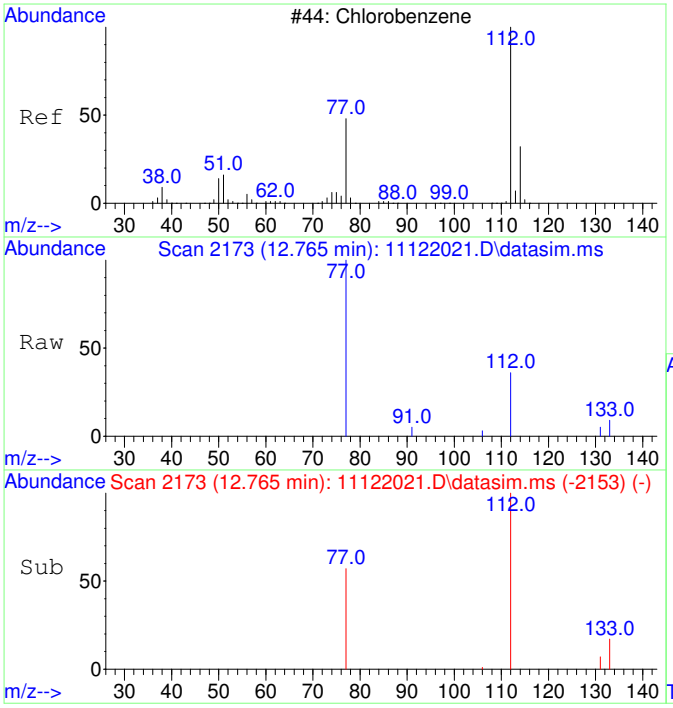


#15
Tetrachloroethene
Concen: 7404.63 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:166 Resp: 239321

Ion	Ratio	Lower	Upper
166	100		
164	77.6	47.8	107.8

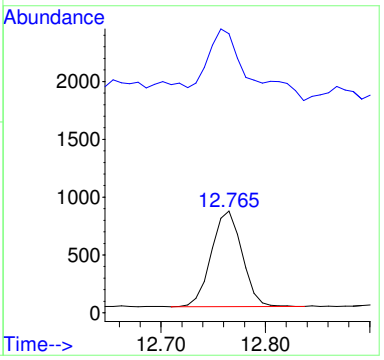


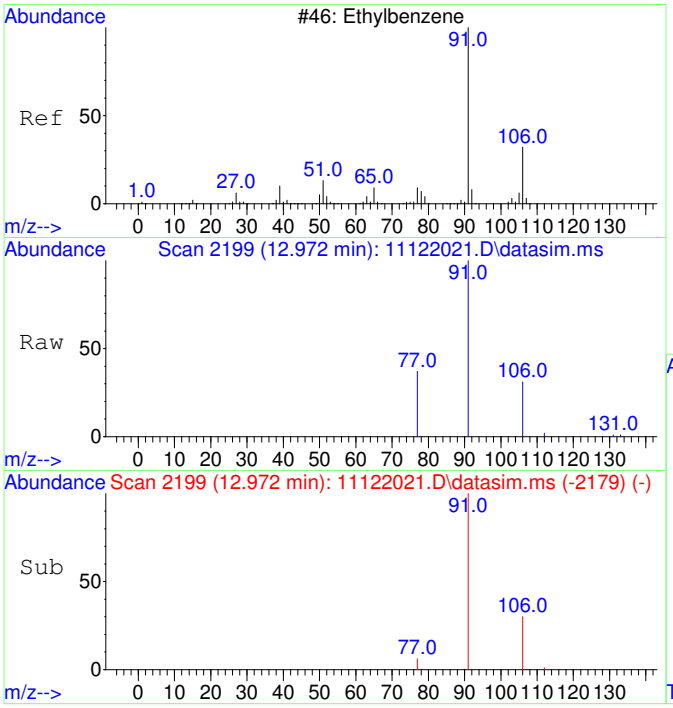


#16
Chlorobenzene
Concen: 21.03 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:112 Resp: 1682

Ion	Ratio	Lower	Upper
112	100		
77	101.0	23.6	83.6#

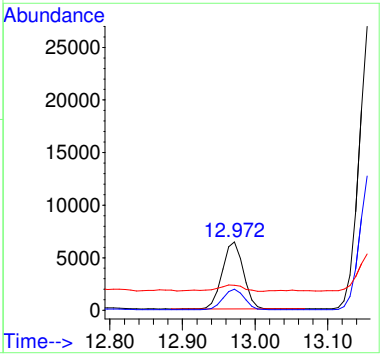


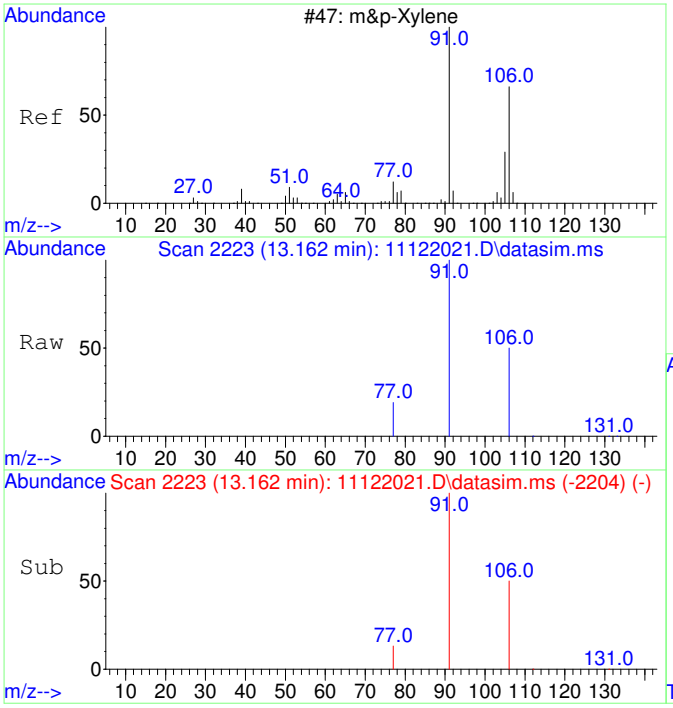


#18
Ethylbenzene
Concen: 94.20 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 91 Resp: 12806

Ion	Ratio	Lower	Upper
91	100		
106	31.4	3.0	63.0
77	11.8	0.0	38.2

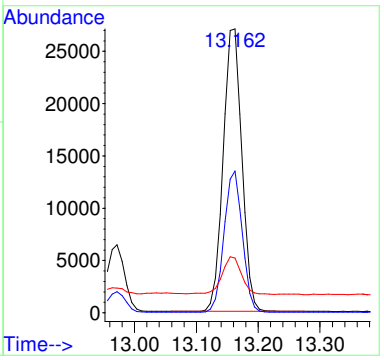


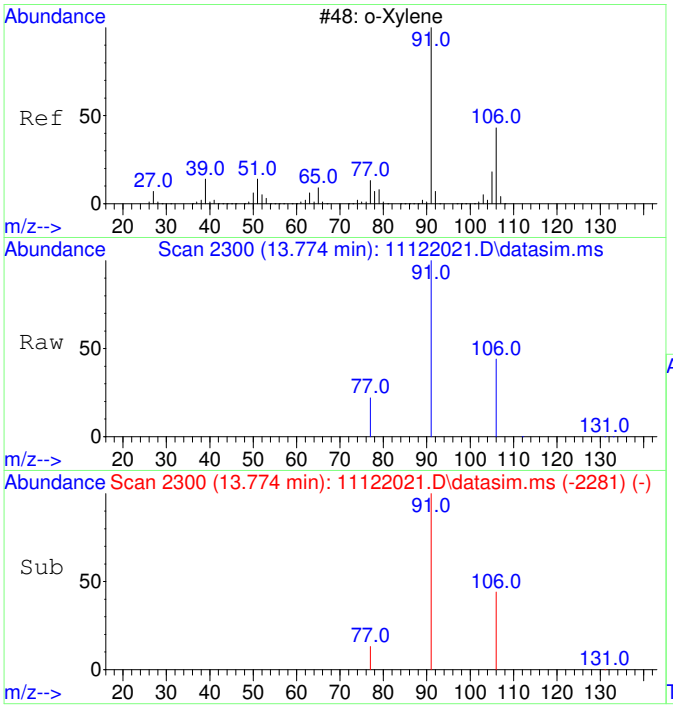


#19
m&p-Xylene
Concen: 533.72 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 91 Resp: 56705

Ion	Ratio	Lower	Upper
91	100		
106	48.8	22.2	82.2
77	14.1	0.0	42.4

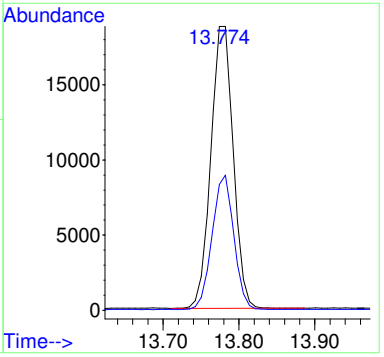


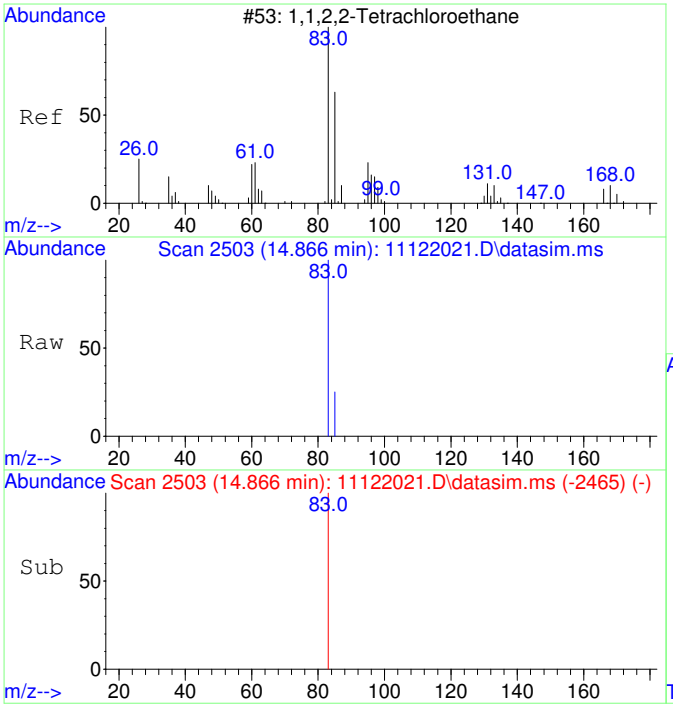


#20
o-Xylene
Concen: 338.90 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 91 Resp: 38468

Ion	Ratio	Lower	Upper
91	100		
106	46.1	19.2	79.2

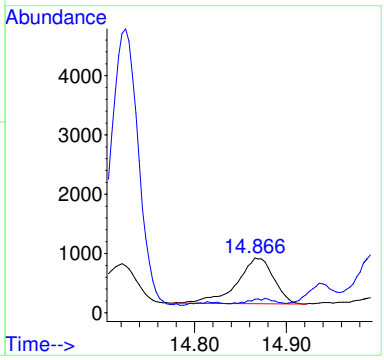


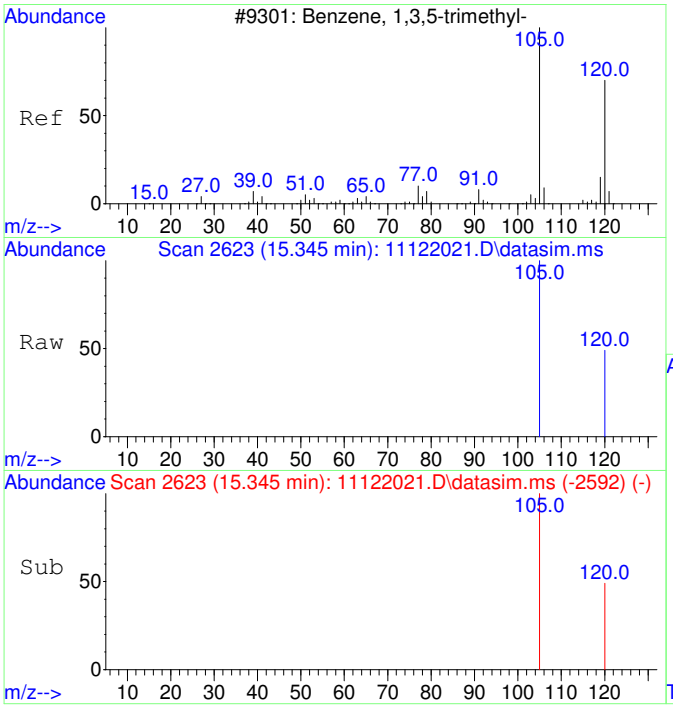


#21
1,1,2,2-Tetrachloroethane
Concen: 42.44 ug/L
RT: 14.866 min Scan# 2503
Delta R.T. -0.007 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 83 Resp: 2135

Ion	Ratio	Lower	Upper
83	100		
85	4.1	34.8	94.8#

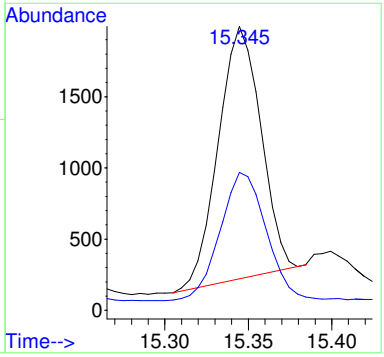


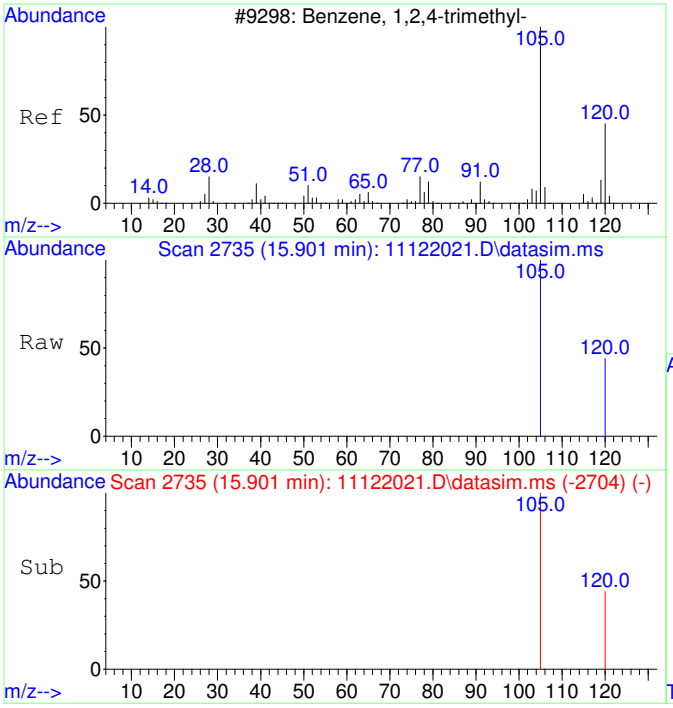


#22
1,3,5-Trimethylbenzene
Concen: 26.17 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:105 Resp: 3162

Ion	Ratio	Lower	Upper
105	100		
120	53.6	21.1	81.1

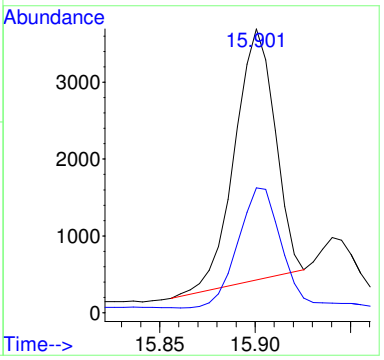


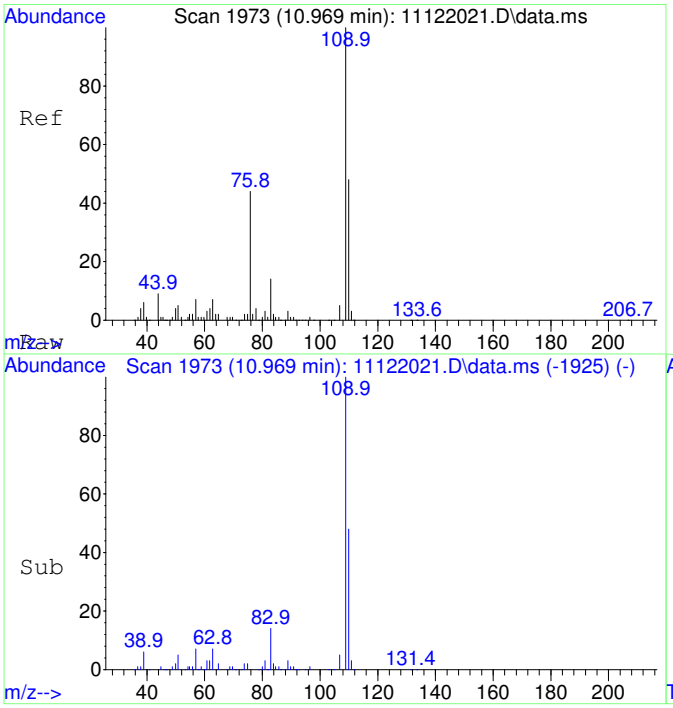


#23
1,2,4-Trimethylbenzene
Concen: 38.80 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:105 Resp: 4869

Ion	Ratio	Lower	Upper
105	100		
120	52.1	17.2	77.2

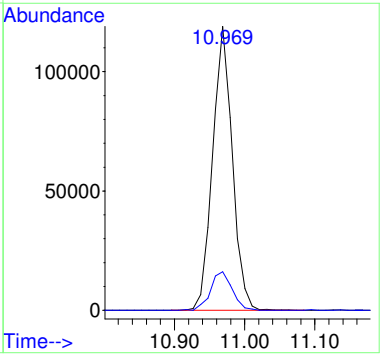


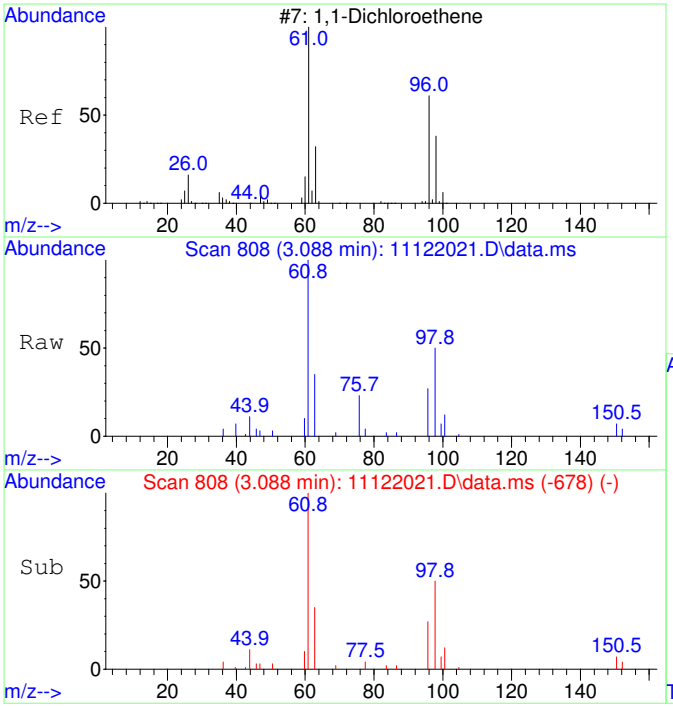


#25
2-Fluorotoluene SCAN
Concen: 5315.39 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:109 Resp: 231865

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	43.8

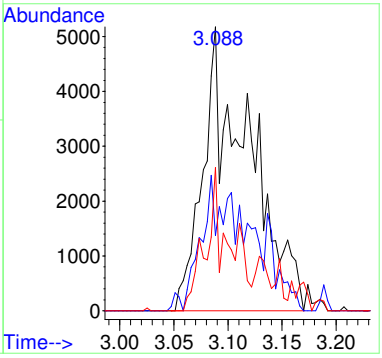


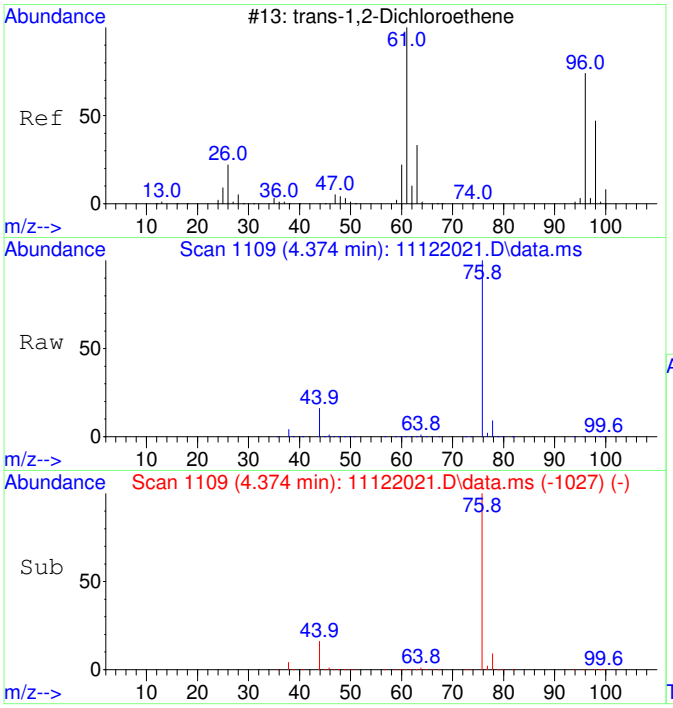


#26
1,1-Dichloroethene SCAN
Concen: 1634.84 ug/L
RT: 3.088 min Scan# 808
Delta R.T. -0.019 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 61 Resp: 15145

Ion	Ratio	Lower	Upper
61	100		
96	31.5	33.1	93.1#
98	3.3	11.2	71.2#

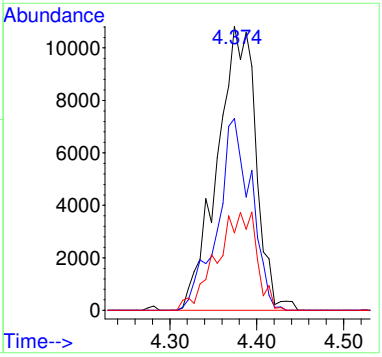


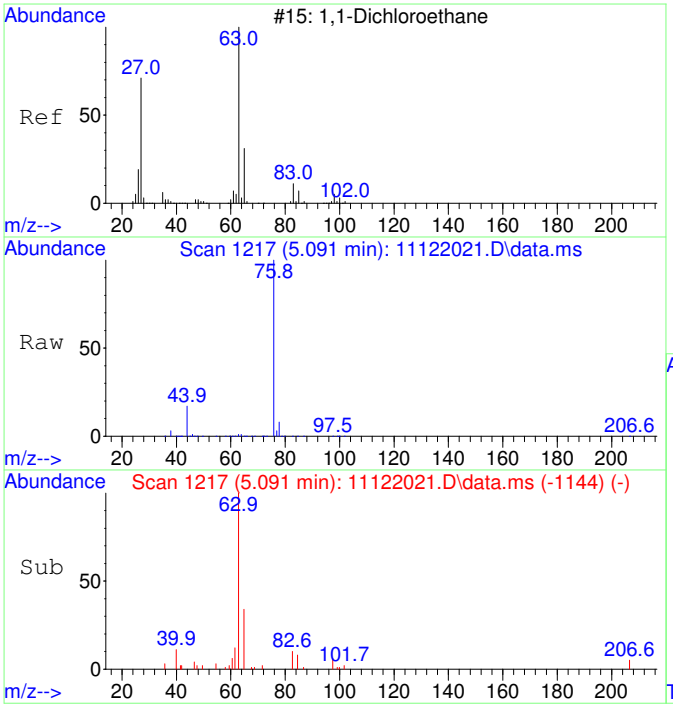


#27
trans-1,2-Dichloroethene SCAN
Concen: 2928.96 ug/L
RT: 4.374 min Scan# 1109
Delta R.T. -0.027 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 61 Resp: 33576

Ion	Ratio	Lower	Upper
61	100		
96	58.8	49.0	109.0
98	35.6	20.5	80.5

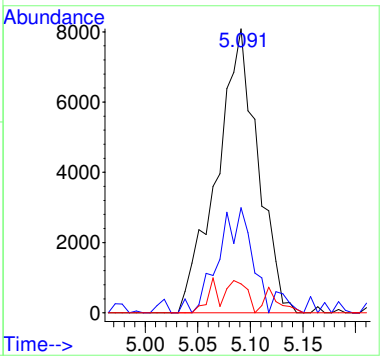


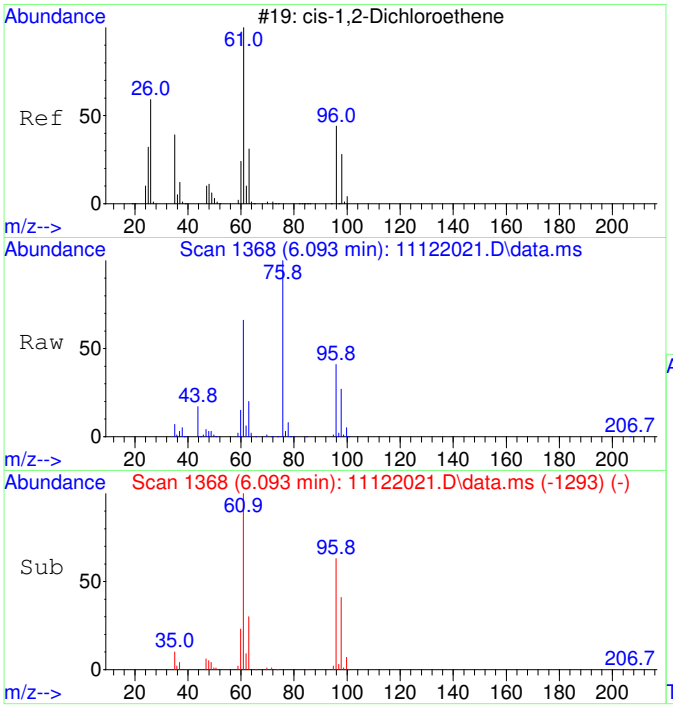


#28
1,1-Dichloroethane SCAN
Concen: 1642.76 ug/L
RT: 5.091 min Scan# 1217
Delta R.T. -0.013 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 63 Resp: 21794

Ion	Ratio	Lower	Upper
63	100		
65	30.3	1.3	61.3
83	4.8	0.0	45.9

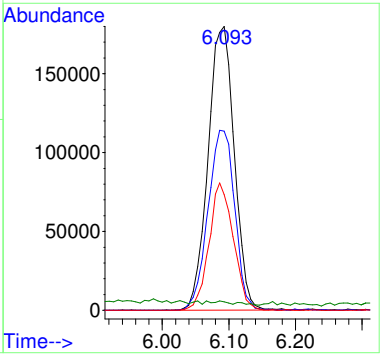


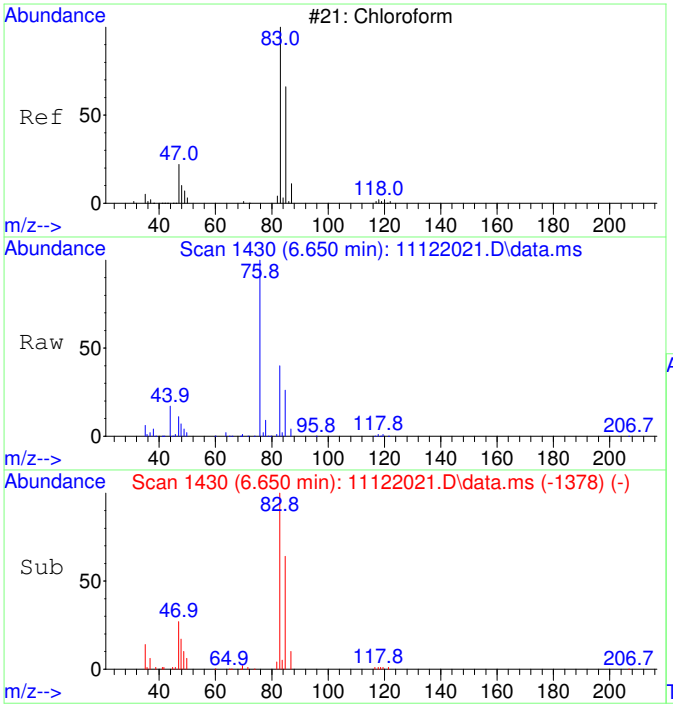


#29
cis-1,2-Dichloroethene SCAN
Concen: 34728.71 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 61 Resp: 493635

Ion	Ratio	Lower	Upper
61	100		
96	64.5	39.9	99.9
98	41.7	13.5	73.5
64	0.0	4.5	64.5#

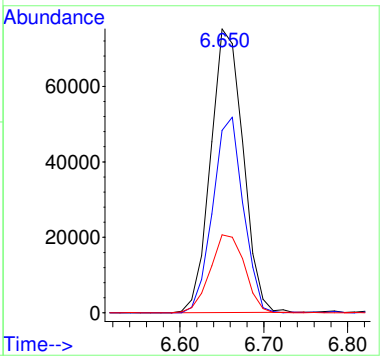


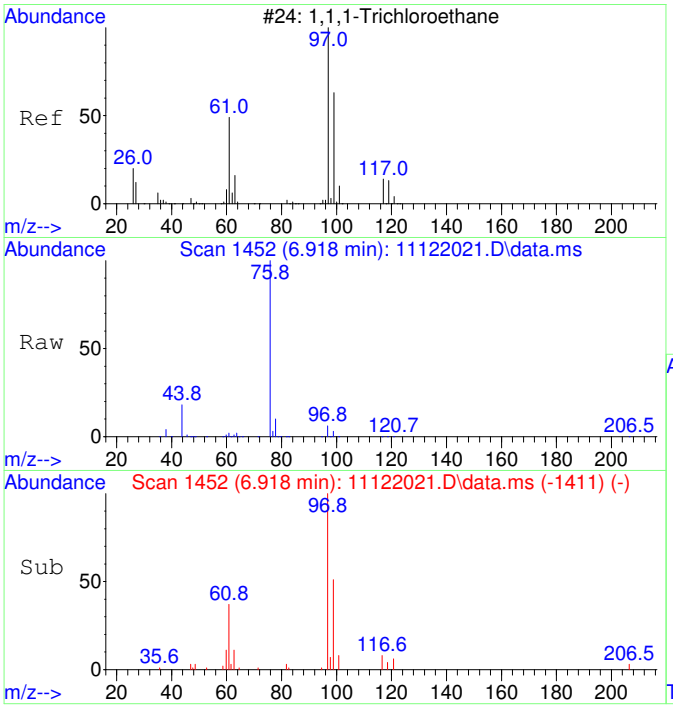


#30
Chloroform SCAN
Concen: 13070.87 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 83 Resp: 201515

Ion	Ratio	Lower	Upper
83	100		
85	64.9	34.6	94.6
47	29.4	0.0	53.4

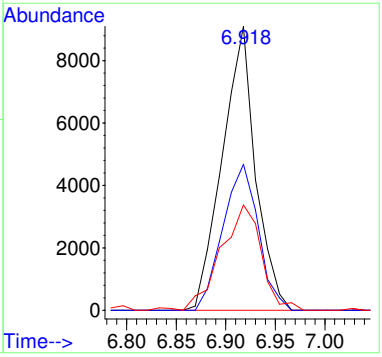


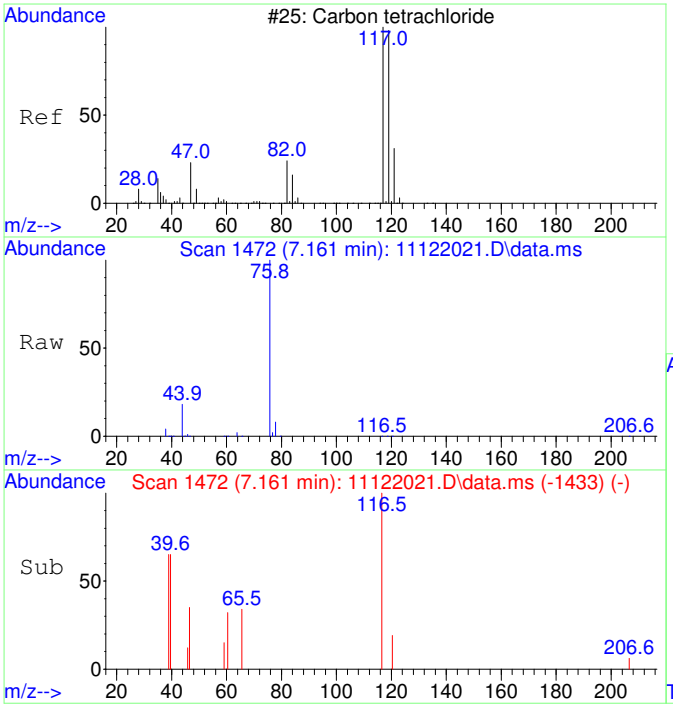


#31
1,1,1-Trichloroethane SCAN
Concen: 1513.03 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 97 Resp: 21257

Ion	Ratio	Lower	Upper
97	100		
99	54.8	43.6	103.6
61	45.1	18.0	78.0

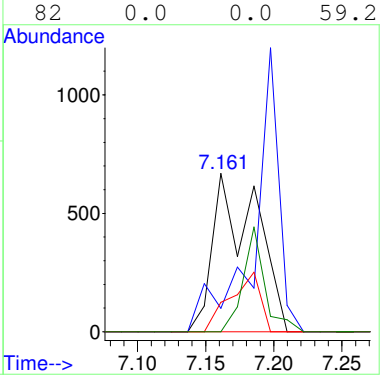


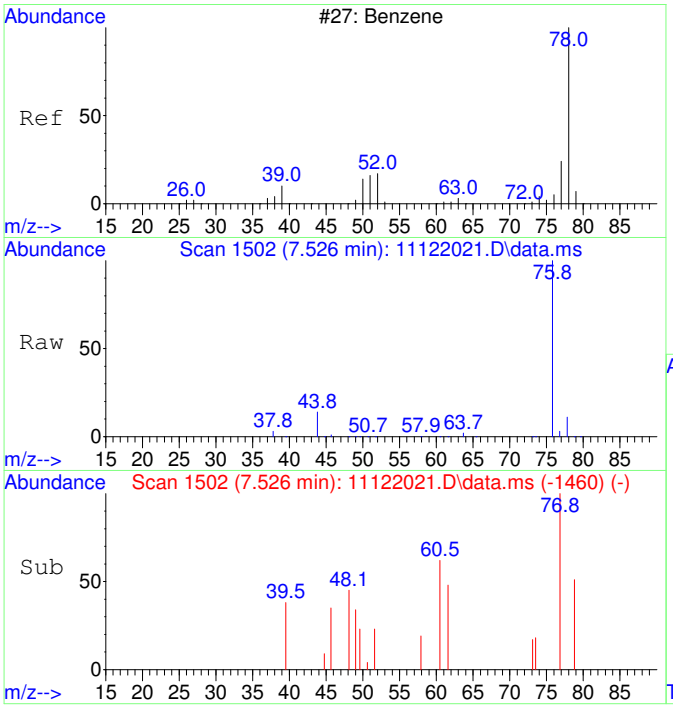


#32
Carbon tetrachloride SCAN
Concen: 100.17 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.024 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:117 Resp: 1468

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

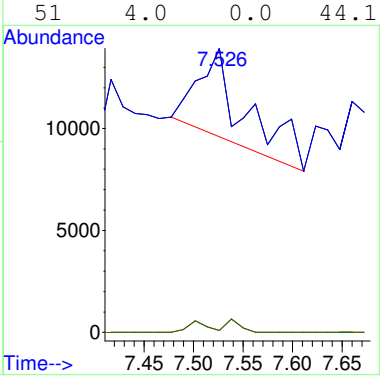


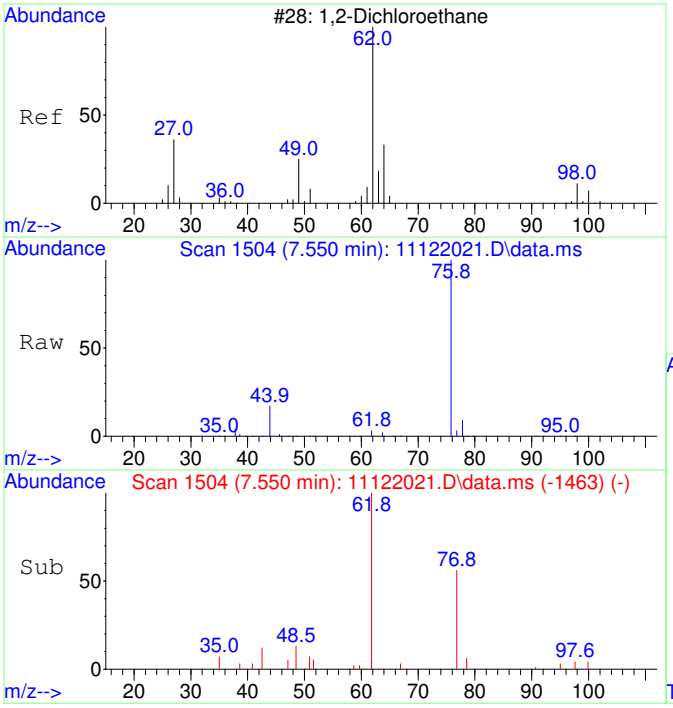


#33
Benzene SCAN
Concen: 342.17 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. 0.012 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 78 Resp: 13236

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	4.0	0.0	47.9
51	4.0	0.0	44.1

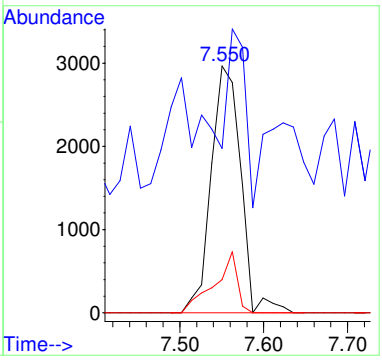


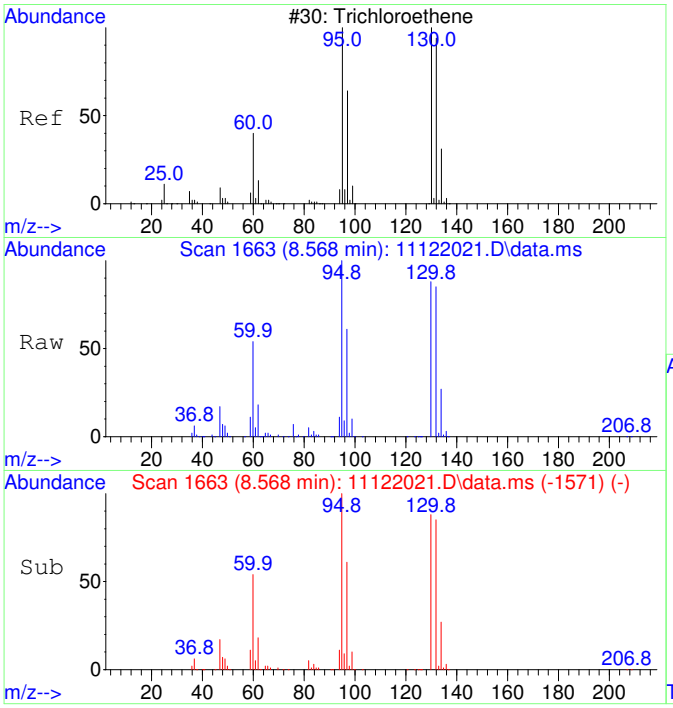


#34
1,2-Dichloroethane SCAN
Concen: 508.27 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 62 Resp: 7260

Ion	Ratio	Lower	Upper
62	100		
64	17.8	5.2	65.2
49	19.1	3.9	63.9

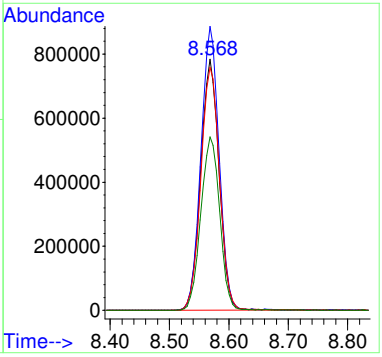


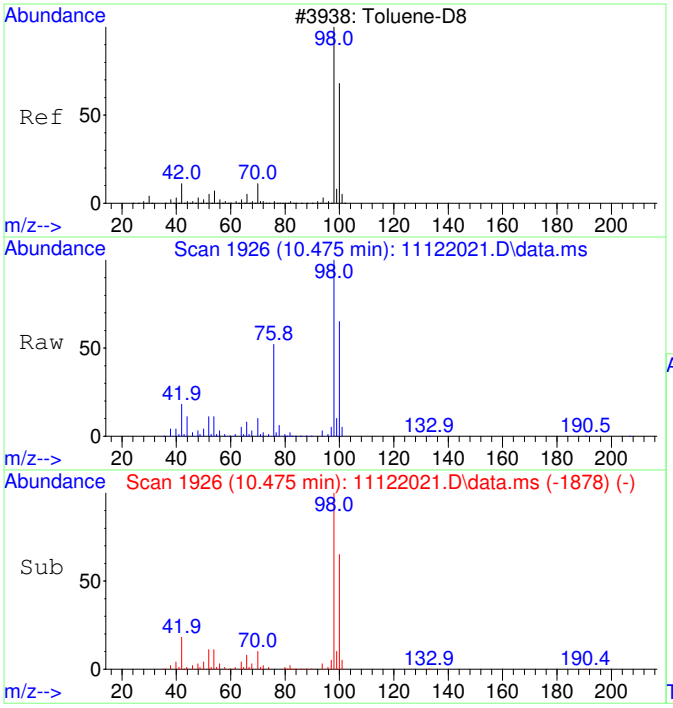


#35
Trichloroethene SCAN
Concen: 158475.43 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:130 Resp: 1684649

Ion	Ratio	Lower	Upper
130	100		
95	111.3	60.5	120.5
132	98.1	59.6	119.6
97	70.5	28.2	88.2

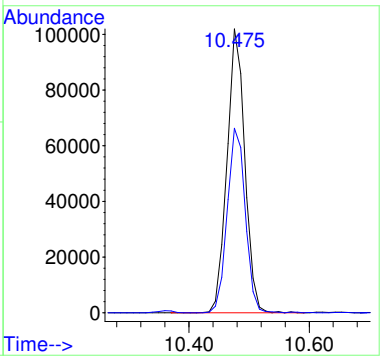


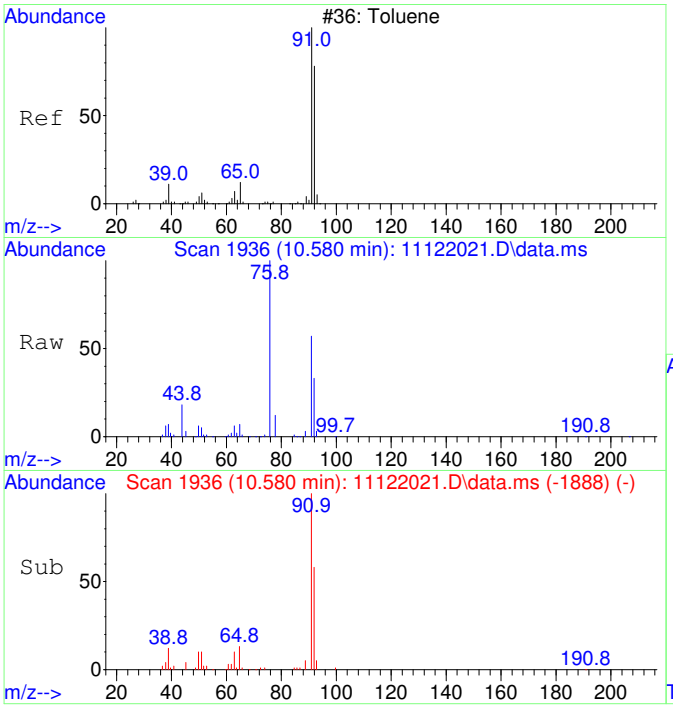


#36
Toluene-d8 SCAN
Concen: 4952.50 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 98 Resp: 211276

Ion	Ratio	Lower	Upper
98	100		
100	65.8	40.0	100.0

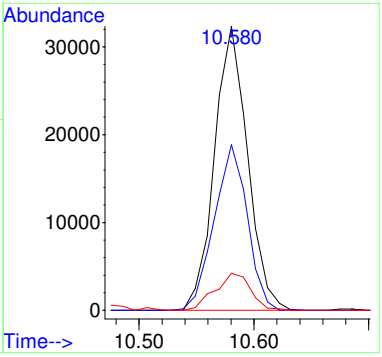


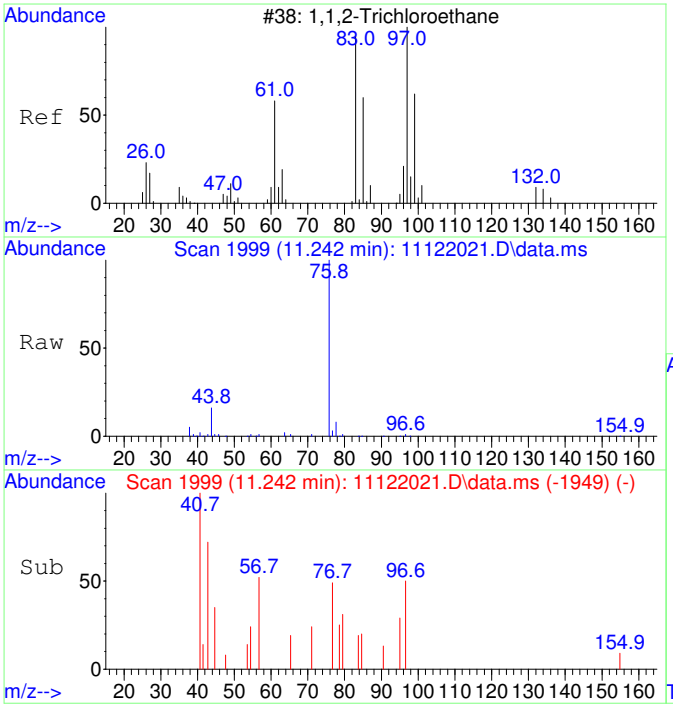


#37
Toluene SCAN
Concen: 1187.65 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 91 Resp: 64885

Ion	Ratio	Lower	Upper
91	100		
92	58.3	28.3	88.3
65	14.1	0.0	41.0

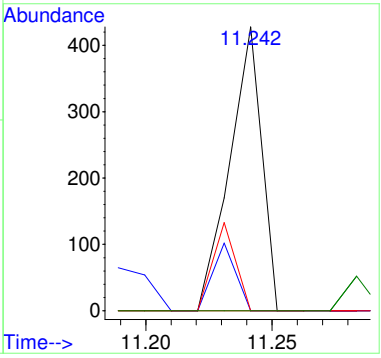


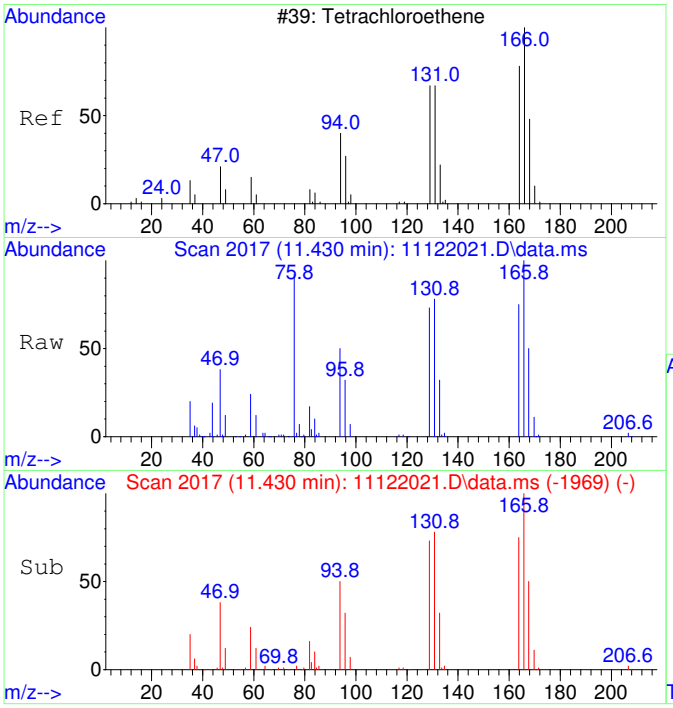


#38
1,1,2-Trichloroethane SCAN
Concen: 30.74 ug/L
RT: 11.242 min Scan# 1999
Delta R.T. 0.021 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 97 Resp: 377

Ion	Ratio	Lower	Upper
97	100		
83	17.0	57.7	117.7#
61	22.3	32.1	92.1#
99	0.0	36.7	96.7#

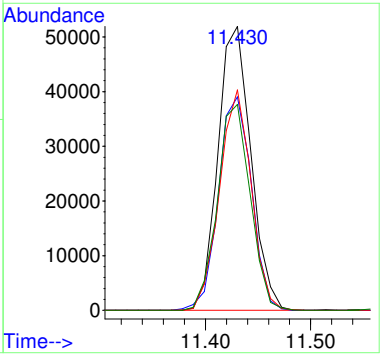


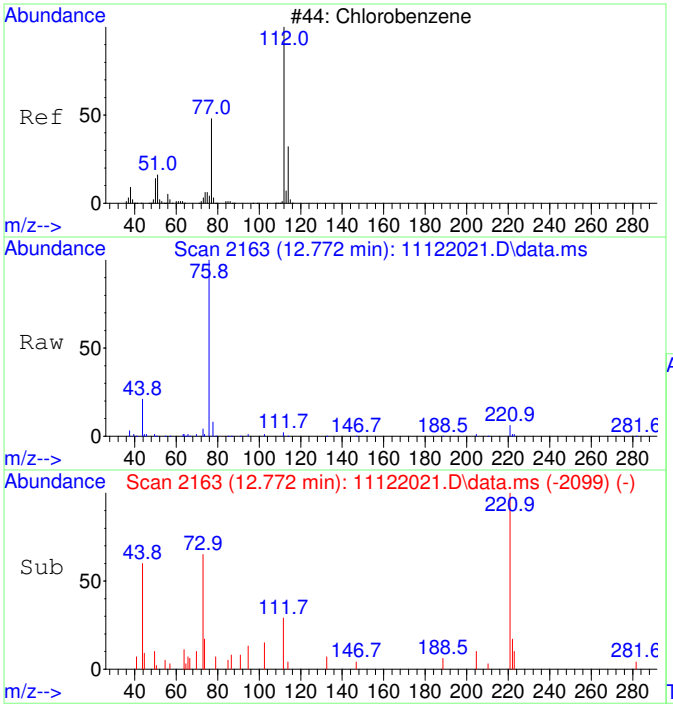


#39
Tetrachloroethene SCAN
Concen: 8627.69 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:166 Resp: 113242

Ion	Ratio	Lower	Upper
166	100		
164	75.1	50.9	110.9
131	74.5	38.7	98.7
129	72.3	41.8	101.8

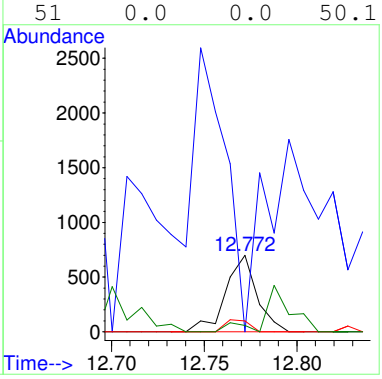


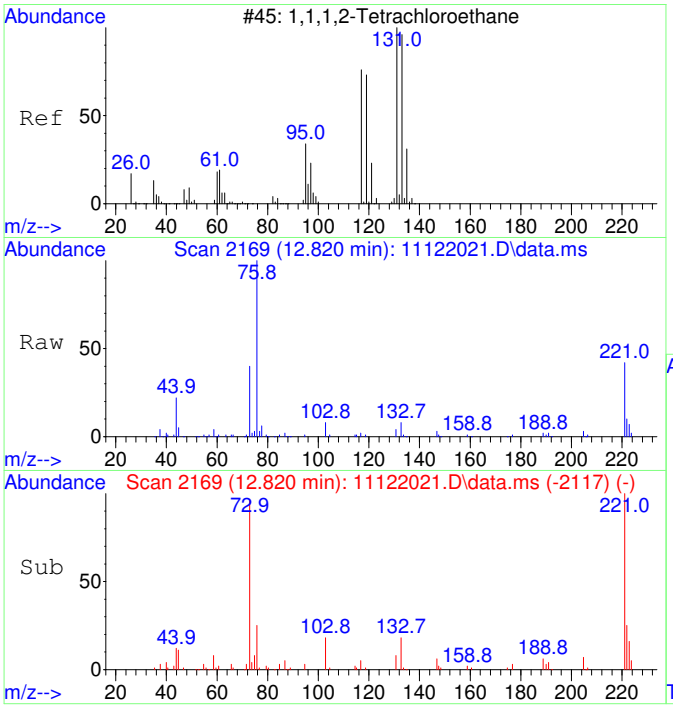


#40
Chlorobenzene SCAN
Concen: 21.86 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:112 Resp: 816

Ion	Ratio	Lower	Upper
112	100		
77	0.0	28.2	88.2#
114	12.3	2.3	62.3
51	0.0	0.0	50.1

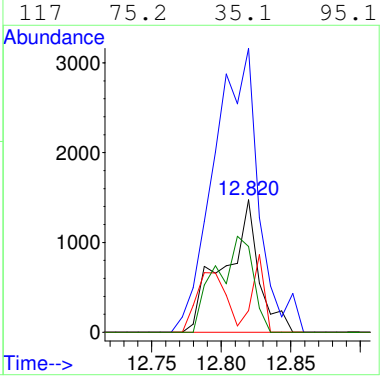


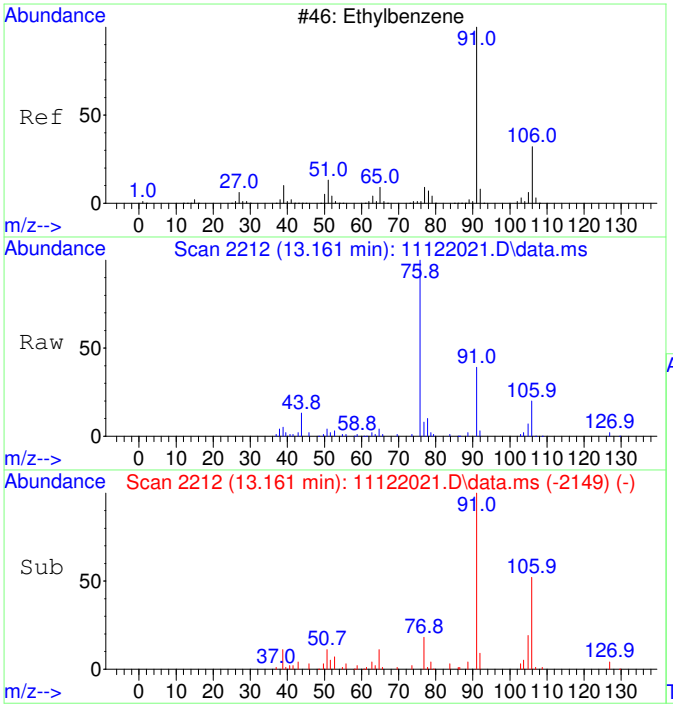


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 188.19 ug/L
RT: 12.820 min Scan# 2169
Delta R.T. -0.087 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:131 Resp: 2600

Ion	Ratio	Lower	Upper
131	100		
133	272.9	66.9	126.9#
119	18.4	40.4	100.4#
117	75.2	35.1	95.1

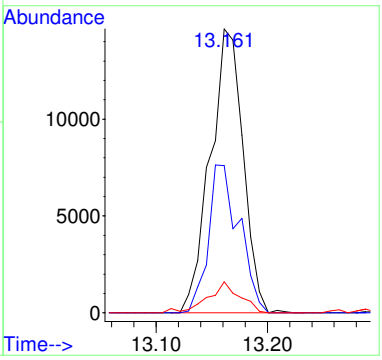


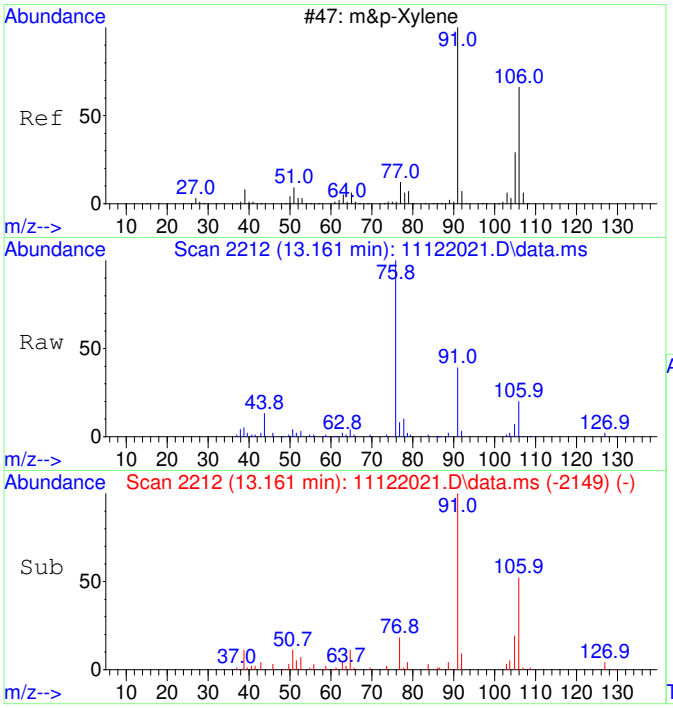


#42
Ethylbenzene SCAN
Concen: 302.45 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 91 Resp: 30103

Ion	Ratio	Lower	Upper
91	100		
106	48.9	23.1	83.1
51	10.6	0.0	40.1

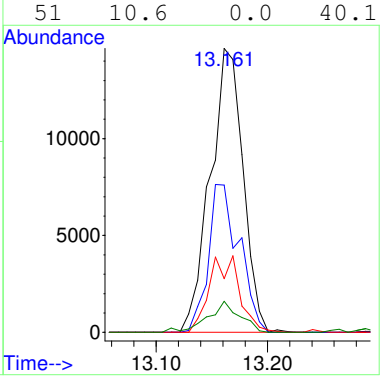


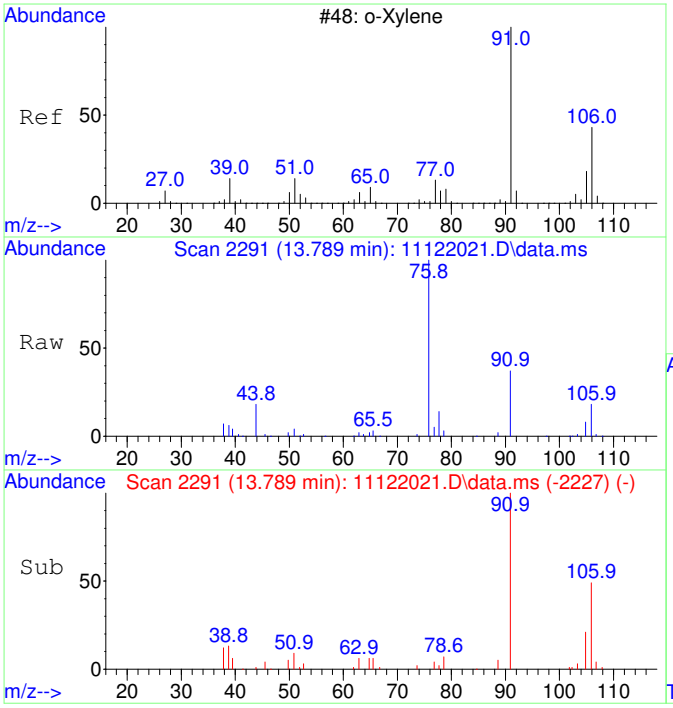


#43
m&p-Xylene SCAN
Concen: 302.45 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 91 Resp: 30103

Ion	Ratio	Lower	Upper
91	100		
106	48.9	23.1	83.1
105	24.7	0.0	54.7
51	10.6	0.0	40.1

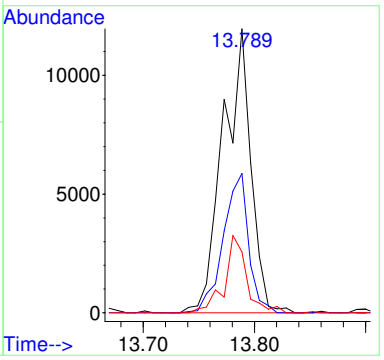


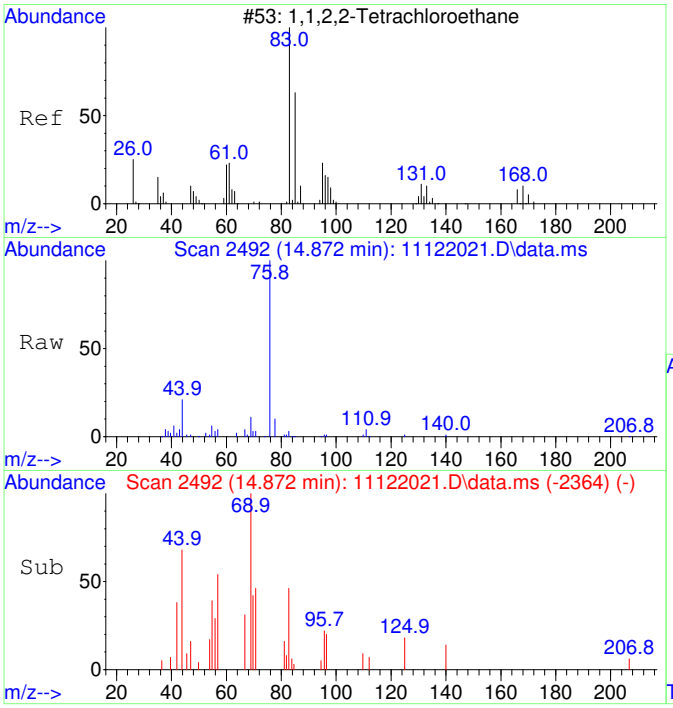


#44
o-Xylene SCAN
Concen: 392.70 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. 0.008 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 91 Resp: 20922

Ion	Ratio	Lower	Upper
91	100		
106	44.3	18.0	78.0
105	21.1	0.0	56.6

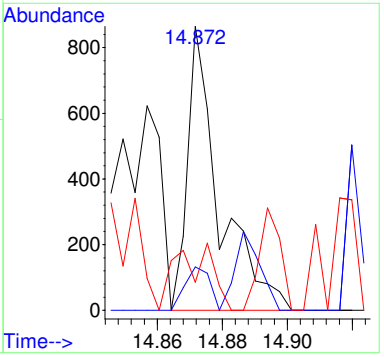


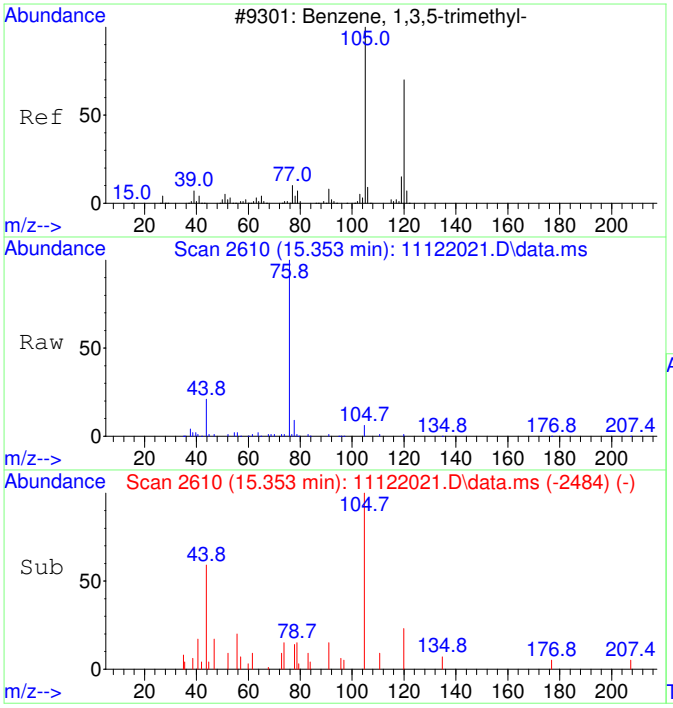


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 22.60 ug/L
RT: 14.872 min Scan# 2492
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion: 83 Resp: 587

Ion	Ratio	Lower	Upper
83	100		
85	11.9	35.9	95.9#
95	26.4	0.0	47.4

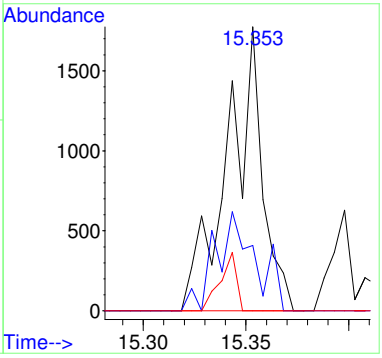


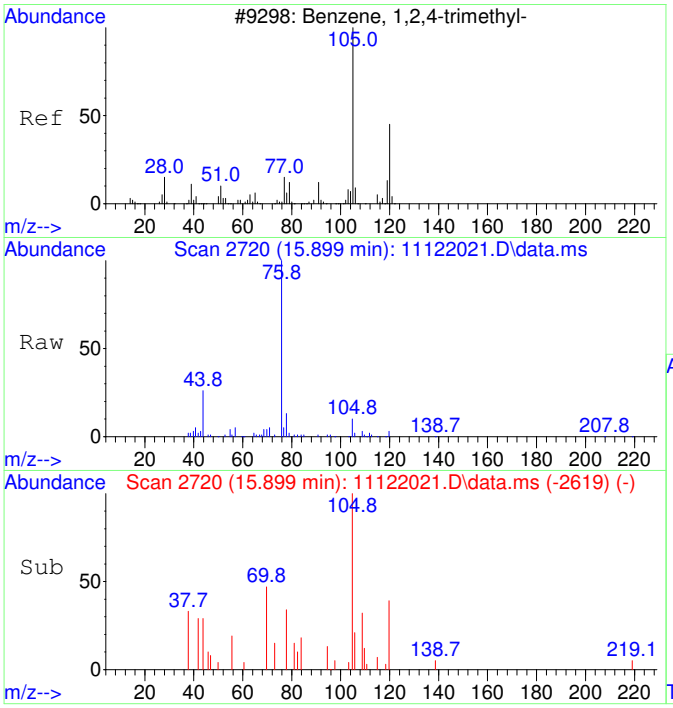


#46
1,3,5-Trimethylbenzene SCAN
Concen: 37.35 ug/L
RT: 15.353 min Scan# 2610
Delta R.T. 0.010 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:105 Resp: 2097

Ion	Ratio	Lower	Upper
105	100		
120	39.9	18.3	78.3
119	9.6	0.0	43.1

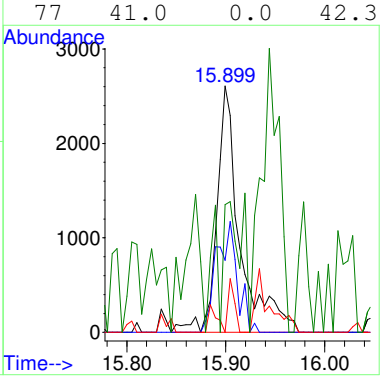




#47
1,2,4-Trimethylbenzene SCAN
Concen: 74.11 ug/L
RT: 15.899 min Scan# 2720
Delta R.T. -0.000 min
Lab File: 11122021.D
Acq: 12 Nov 2020 16:21

Tgt Ion:105 Resp: 4258

Ion	Ratio	Lower	Upper
105	100		
120	40.0	16.9	76.9
119	6.1	0.0	41.9
77	41.0	0.0	42.3



2011015-15

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122022.D
Acq On : 12 Nov 2020 16:45
InstName : AG5975C
Operator : TD
Sample : 2011015-15
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 13 06:13:40 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

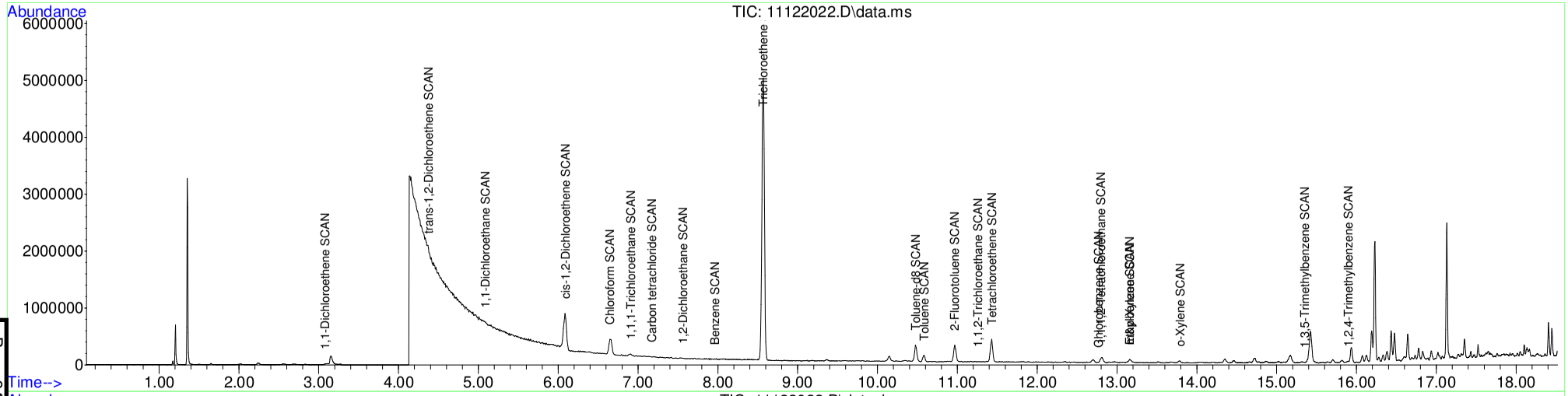
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	448487	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	385522	4391.10 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.82%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.093	61	30743	1716.64 ug/L	81
3] trans-1,2-Dichloroethene	4.369	61	63540	3070.86 ug/L	99
4] 1,1-Dichloroethane	5.079	63	37762	1466.10 ug/L	100
5] cis-1,2-Dichloroethene	6.081	61	906967	33359.14 ug/L OC	99
6] Chloroform	6.652	83	467226	16789.83 ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	42447	1404.54 ug/L	99
8] Carbon tetrachloride	7.175	117	3636	127.83 ug/L	98
9] Benzene	7.503	78	8224	107.93 ug/L	70
10] 1,2-Dichloroethane	7.540	62	9511	349.64 ug/L	88
11] Trichloroethene	8.569	130	3423001	149196.17 ug/L OC	92
13] Toluene	10.571	91	158102	1412.48 ug/L	99
15] Tetrachloroethene	11.432	166	258198	7970.82 ug/L	100
16] Chlorobenzene	12.765	112	1653	20.62 ug/L	65
18] Ethylbenzene	12.972	91	14342	105.27 ug/L	97
19] m&p-Xylene	13.162	91	64889	609.38 ug/L	95
20] o-Xylene	13.774	91	42719	375.50 ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.866	83	3052	60.53 ug/L #	30
22] 1,3,5-Trimethylbenzene	15.344	105	5049	41.70 ug/L	91
23] 1,2,4-Trimethylbenzene	15.899	105	8187	65.09 ug/L	92
25) 2-Fluorotoluene SCAN	10.969	109	238910	5464.65 ug/L	96
26) 1,1-Dichloroethene SCAN	3.081	61	18281	1968.95 ug/L #	30
27) trans-1,2-Dichloroethe...	4.375	61	39313	3421.75 ug/L	79
28) 1,1-Dichloroethane SCAN	5.084	63	23739	1785.36 ug/L	96
29) cis-1,2-Dichloroethene...	6.086	61	549343	38561.50 ug/L #	80
30) Chloroform SCAN	6.650	83	270359	17497.09 ug/L	96
31) 1,1,1-Trichloroethane ...	6.906	97	24524	1741.66 ug/L	86
32) Carbon tetrachloride SCAN	7.173	117	1272	86.60 ug/L #	77
33) Benzene SCAN	7.964	78	5446	140.47 ug/L	92
34) 1,2-Dichloroethane SCAN	7.563	62	5545	387.33 ug/L #	54
35) Trichloroethene SCAN	8.568	130	1792076	168204.11 ug/L	86
36) Toluene-d8 SCAN	10.476	98	209661	4903.66 ug/L	93
37) Toluene SCAN	10.580	91	91833	1677.15 ug/L	96
38) 1,1,2-Trichloroethane ...	11.252	97	353	28.72 ug/L #	13
39) Tetrachloroethene SCAN	11.430	166	125456	9536.87 ug/L	94
40) Chlorobenzene SCAN	12.764	112	892	23.84 ug/L #	23
41) 1,1,1,2-Tetrachloroeth...	12.796	131	2252	162.64 ug/L #	1
42) Ethylbenzene SCAN	13.161	91	35015	351.01 ug/L	92
43) m&p-Xylene SCAN	13.161	91	35015	351.01 ug/L	94
44) o-Xylene SCAN	13.789	91	23030	431.30 ug/L	90
46) 1,3,5-Trimethylbenzene...	15.347	105	3947	70.14 ug/L	95
47) 1,2,4-Trimethylbenzene...	15.898	105	4126	71.66 ug/L #	78

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122022.D
Acq On : 12 Nov 2020 16:45
InstName : AG5975C
Operator : TD
Sample : 2011015-15
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 13 06:13:40 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



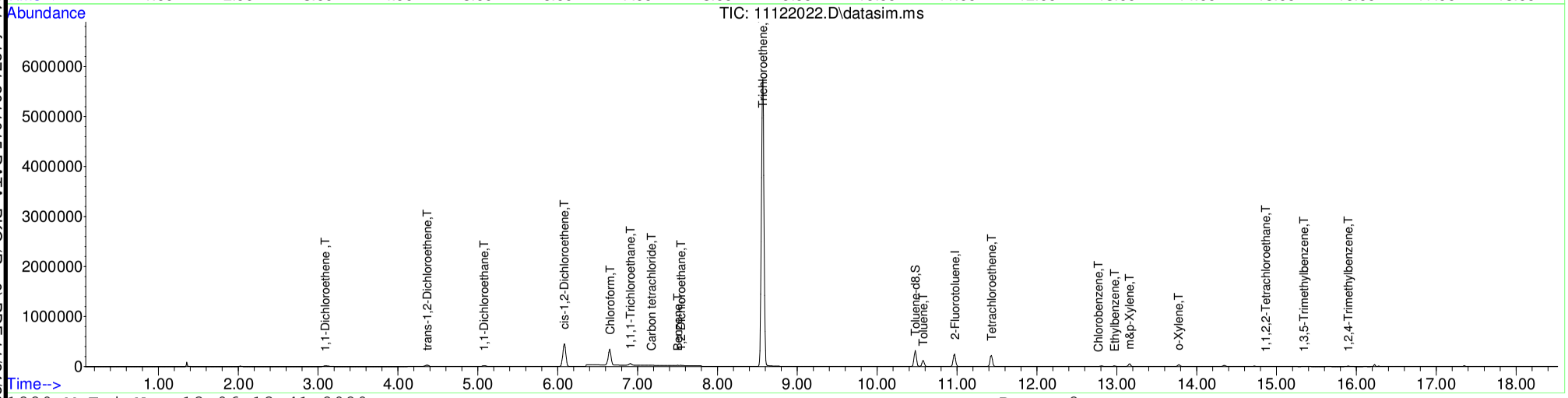
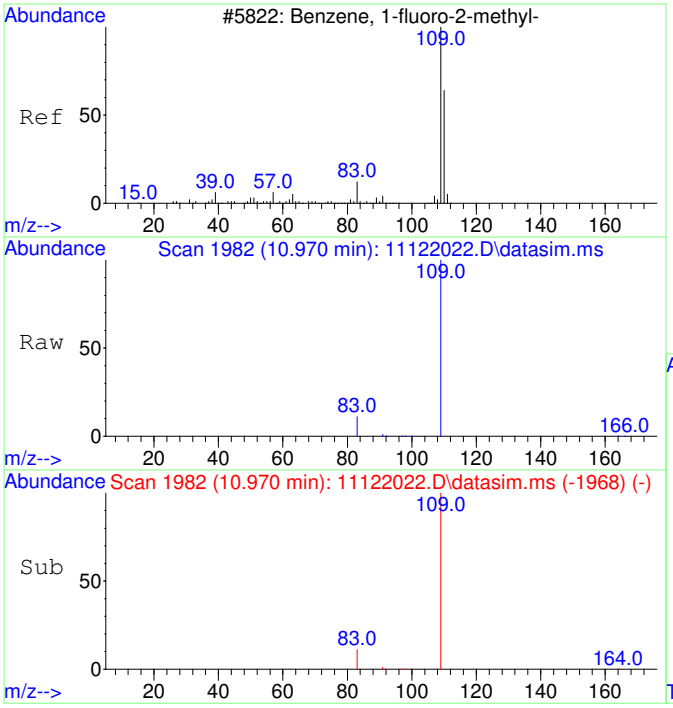


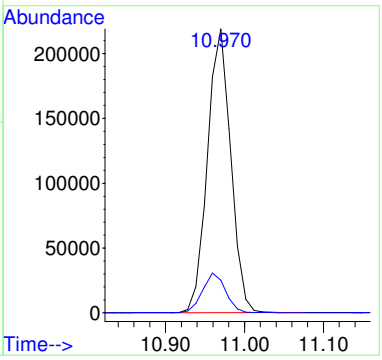
Table of Contents

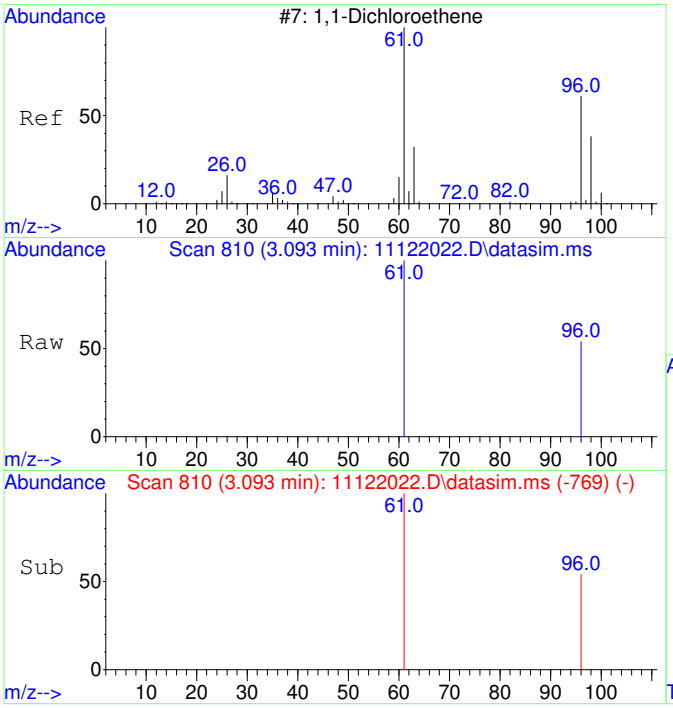


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:109 Resp: 448487

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

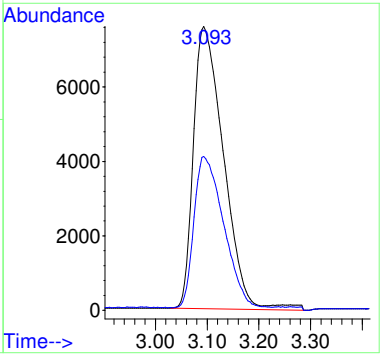


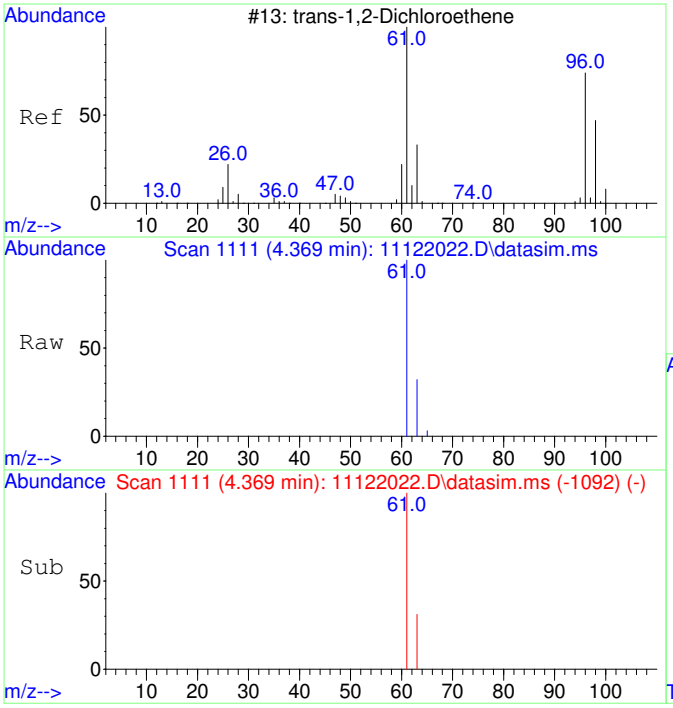


#2
1,1-Dichloroethene
Concen: 1716.64 ug/L
RT: 3.093 min Scan# 810
Delta R.T. 0.004 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 61 Resp: 30743

Ion	Ratio	Lower	Upper
61	100		
96	52.3	37.2	97.2

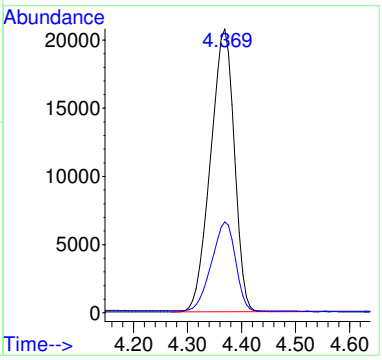


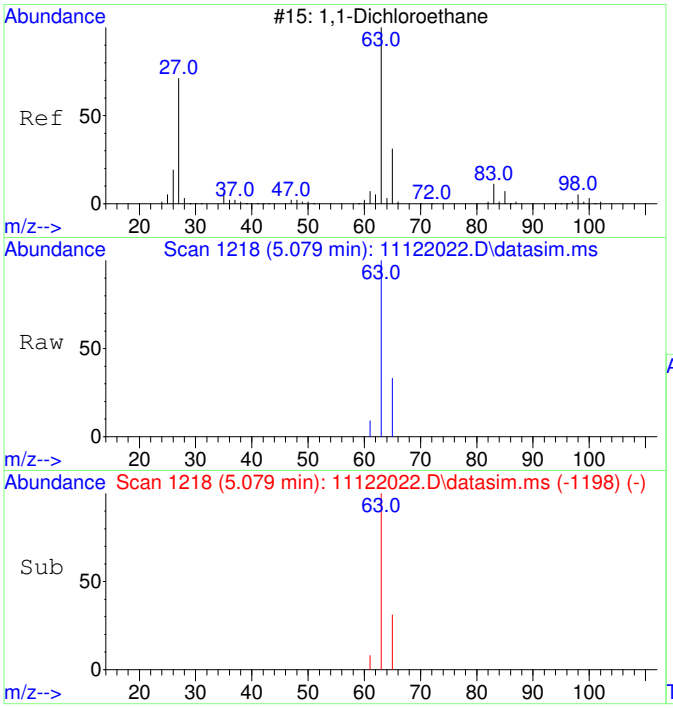


#3
trans-1,2-Dichloroethene
Concen: 3070.86 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. -0.026 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 61 Resp: 63540

Ion	Ratio	Lower	Upper
61	100		
63	31.6	2.4	62.4

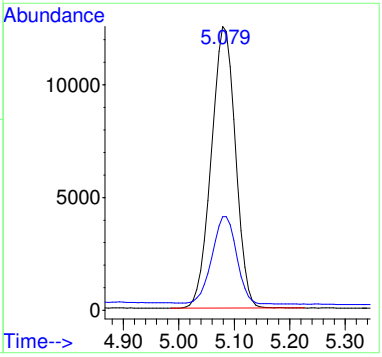


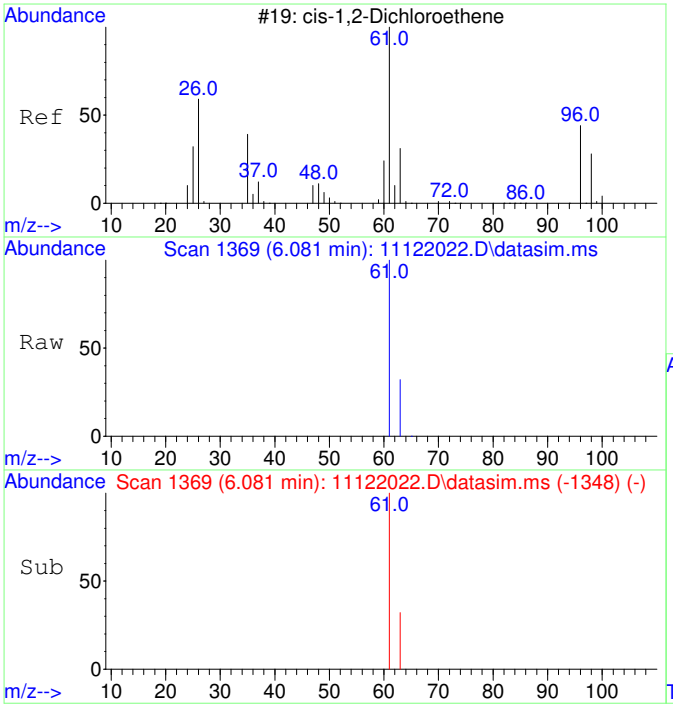


#4
1,1-Dichloroethane
Concen: 1466.10 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 63 Resp: 37762

Ion	Ratio	Lower	Upper
63	100		
65	31.8	1.8	61.8

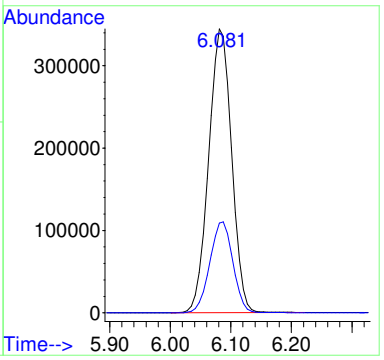


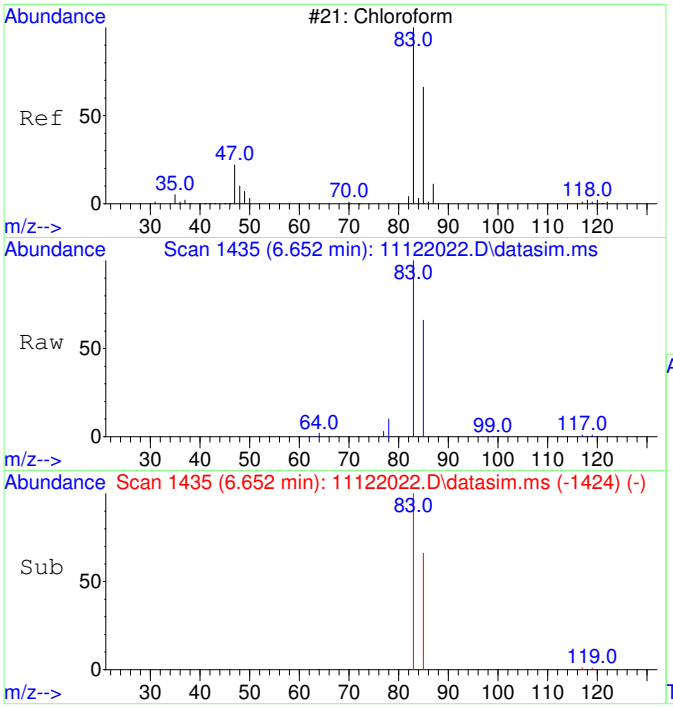


#5
cis-1,2-Dichloroethene
Concen: 33359.14 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 61 Resp: 906967

Ion	Ratio	Lower	Upper
61	100		
63	32.1	2.5	62.5

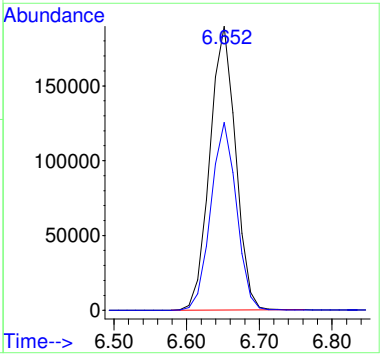


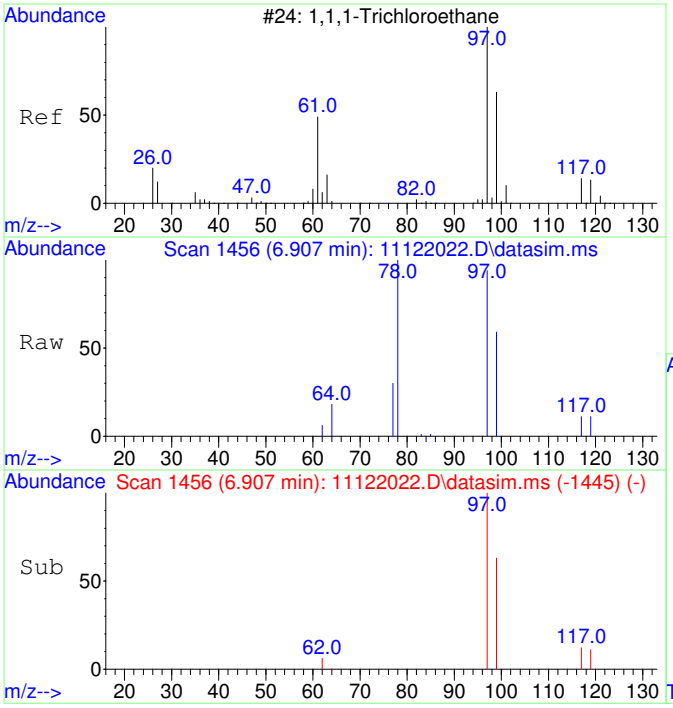


#6
Chloroform
Concen: 16789.83 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 83 Resp: 467226

Ion	Ratio	Lower	Upper
83	100		
85	65.5	35.1	95.1

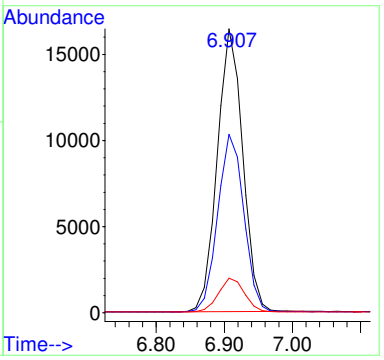


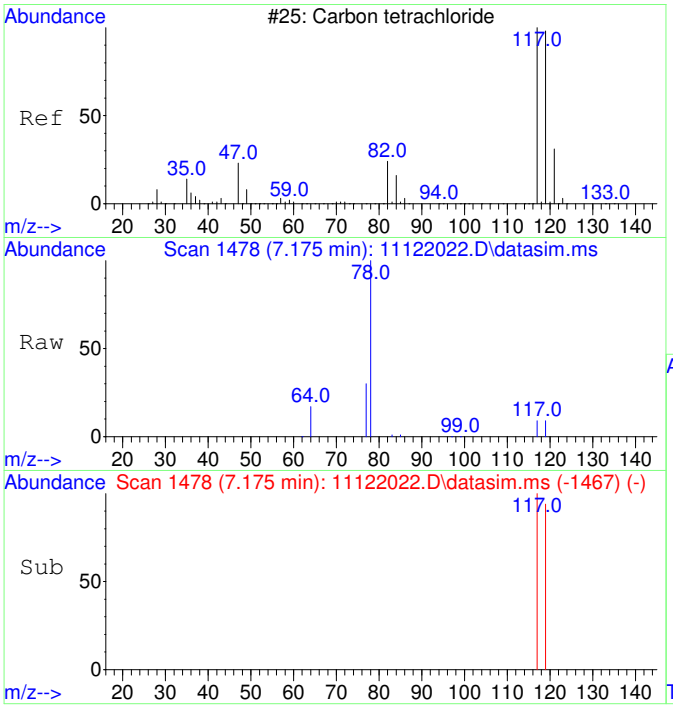


#7
1,1,1-Trichloroethane
Concen: 1404.54 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 97 Resp: 42447

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

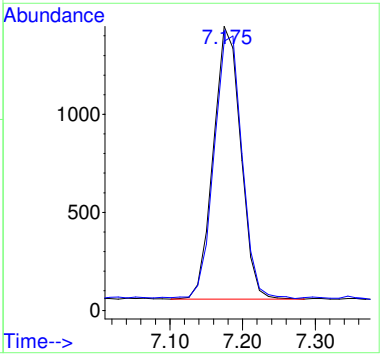


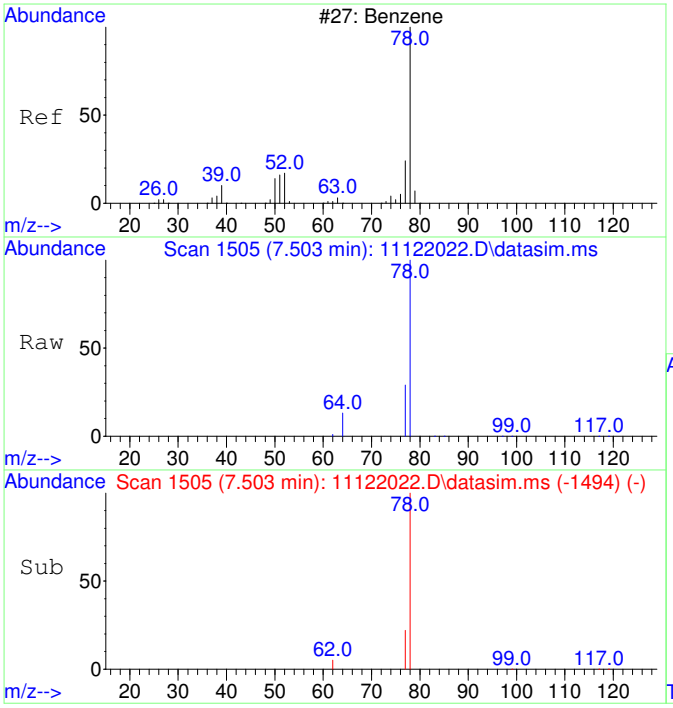


#8
Carbon tetrachloride
Concen: 127.83 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:117 Resp: 3636

Ion	Ratio	Lower	Upper
117	100		
119	98.6	66.4	126.4

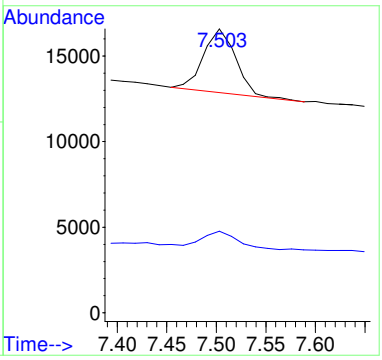


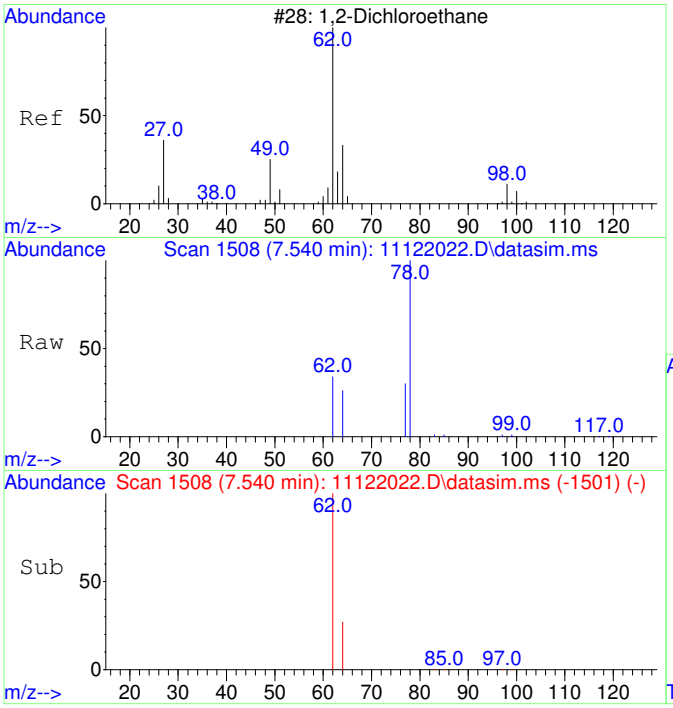


#9
Benzene
Concen: 107.93 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 78 Resp: 8224

Ion	Ratio	Lower	Upper
78	100		
77	37.8	0.0	53.2

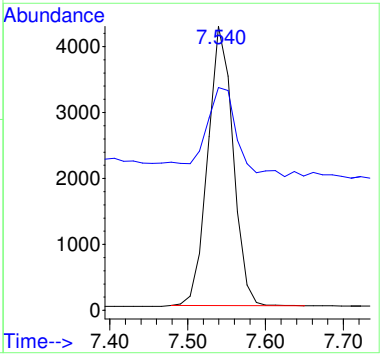


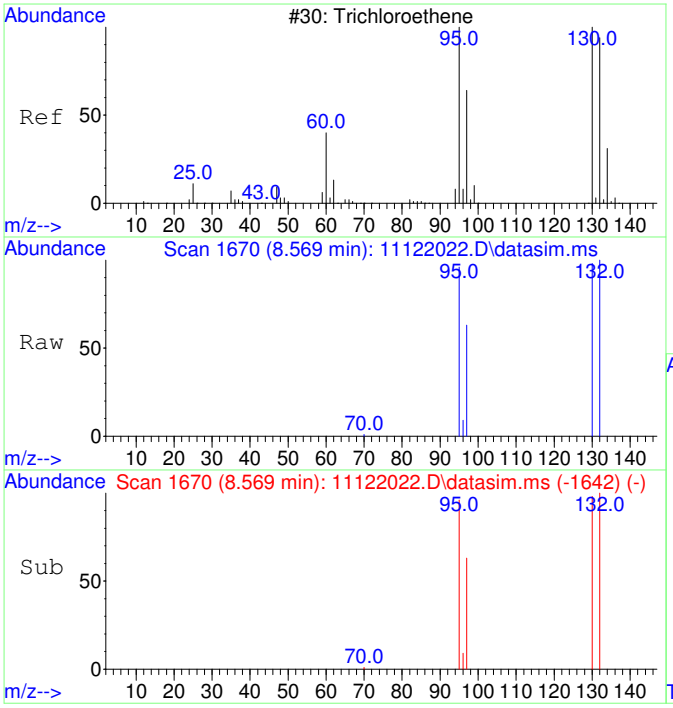


#10
1,2-Dichloroethane
Concen: 349.64 ug/L
RT: 7.540 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 62 Resp: 9511

Ion	Ratio	Lower	Upper
62	100		
64	39.3	2.3	62.3

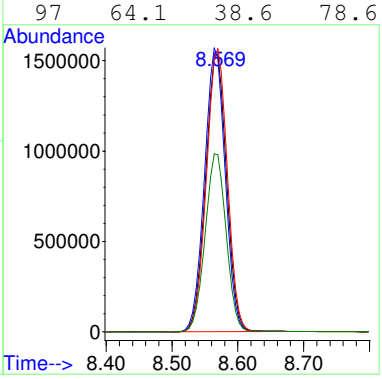


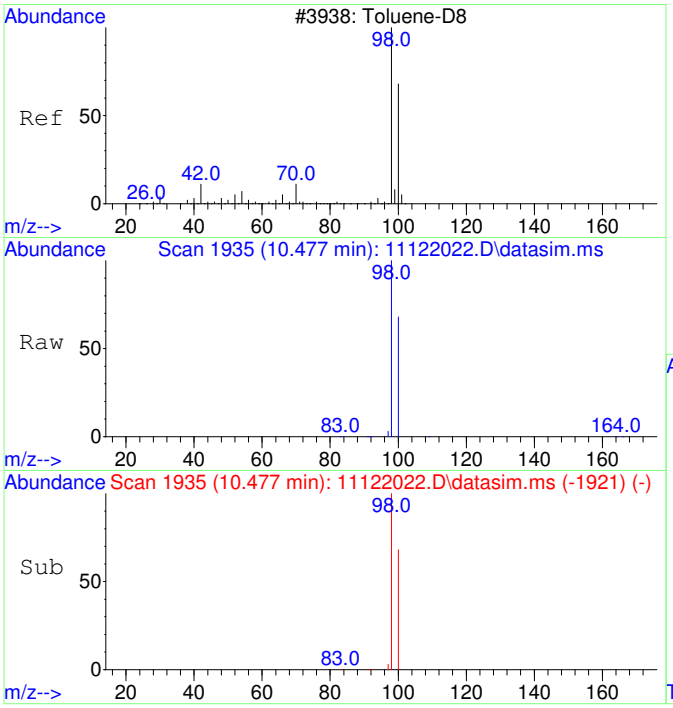


#11
Trichloroethene
Concen: 149196.17 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:130 Resp: 3423001

Ion	Ratio	Lower	Upper
130	100		
95	100.7	60.7	120.7
132	101.5	76.0	116.0
97	64.1	38.6	78.6

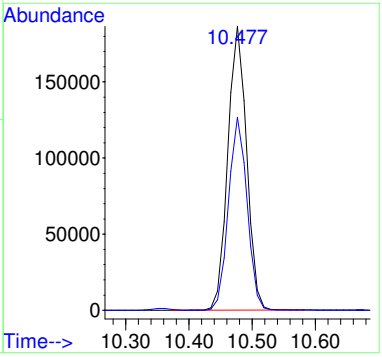


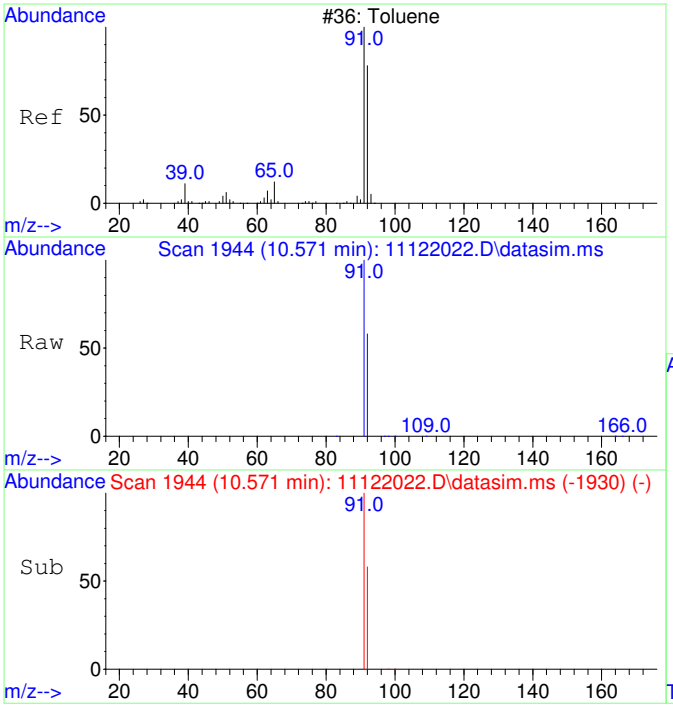


#12
Toluene-d8
Concen: 4391.10 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 98 Resp: 385522

Ion	Ratio	Lower	Upper
98	100		
100	67.1	37.1	97.1

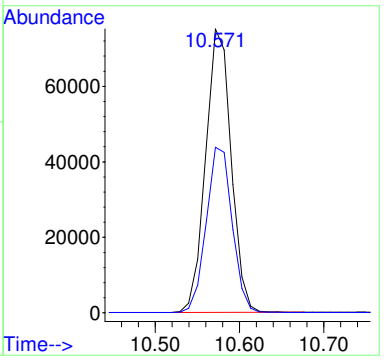


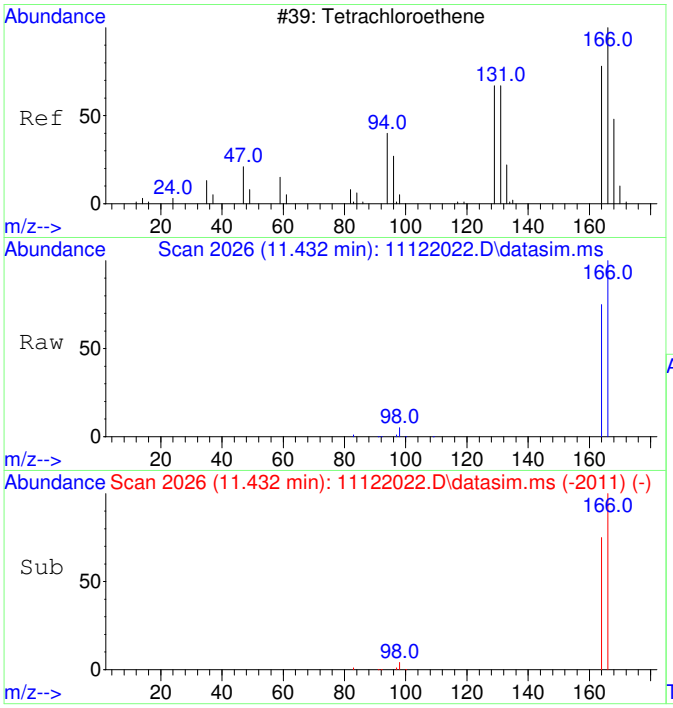


#13
Toluene
Concen: 1412.48 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. 0.000 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 91 Resp: 158102

Ion	Ratio	Lower	Upper
91	100		
92	59.3	29.9	89.9

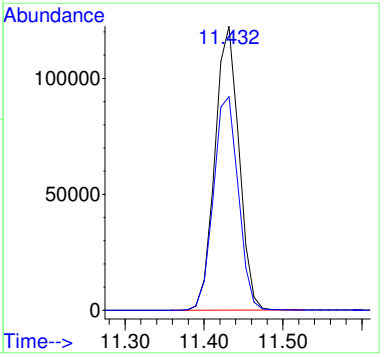


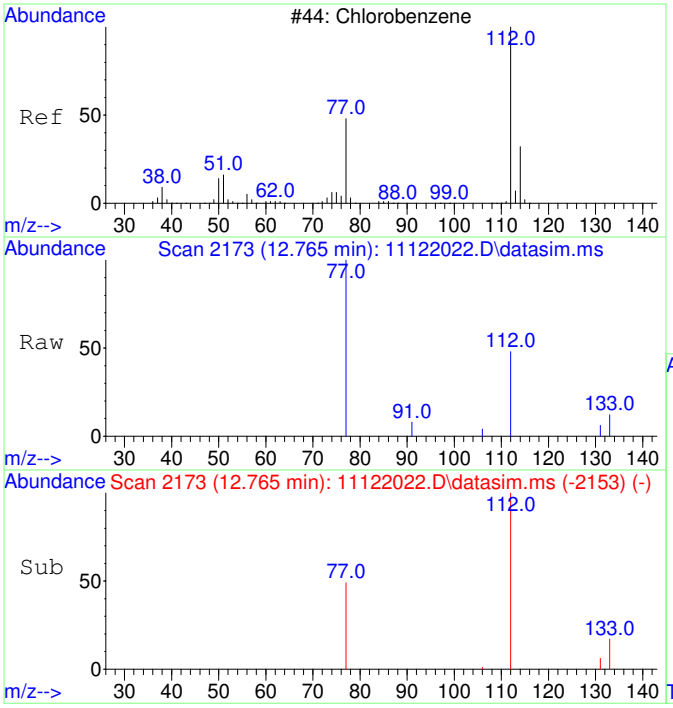


#15
Tetrachloroethene
Concen: 7970.82 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:166 Resp: 258198

Ion	Ratio	Lower	Upper
166	100		
164	77.6	47.8	107.8

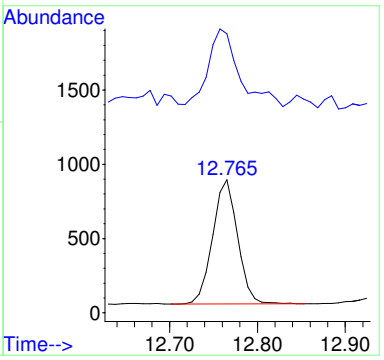


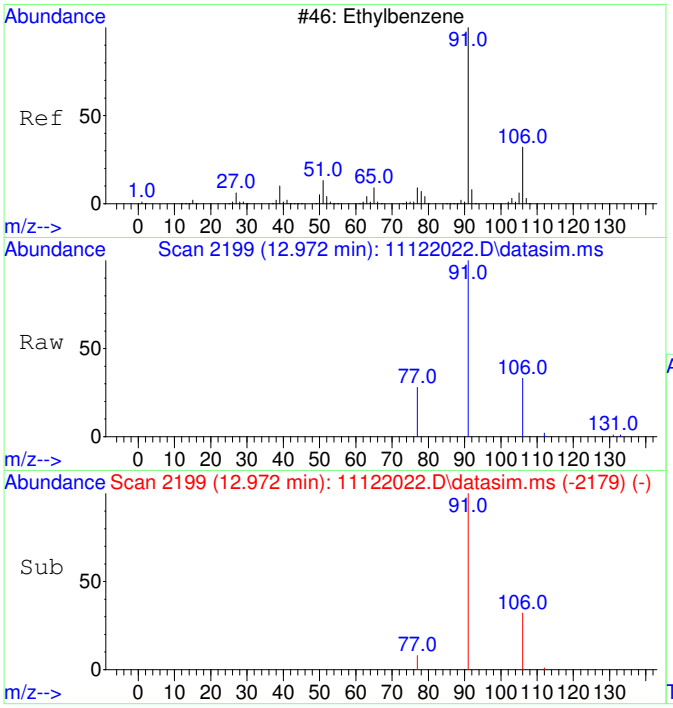


#16
Chlorobenzene
Concen: 20.62 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:112 Resp: 1653

Ion	Ratio	Lower	Upper
112	100		
77	78.8	23.6	83.6

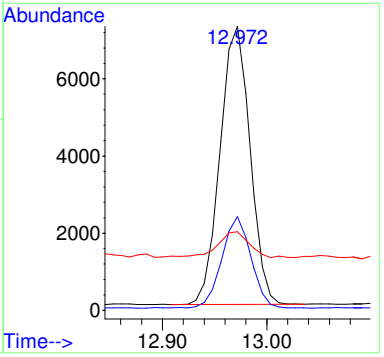


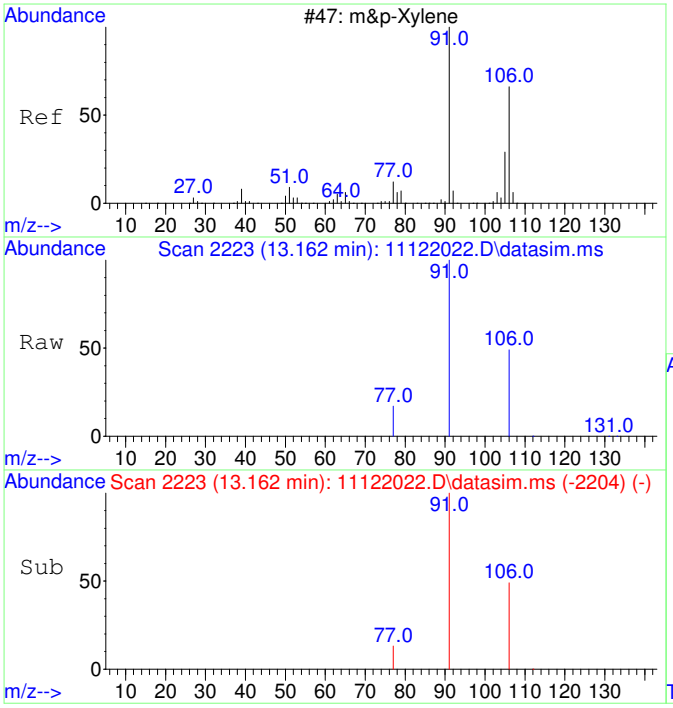


#18
Ethylbenzene
Concen: 105.27 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 91 Resp: 14342

Ion	Ratio	Lower	Upper
91	100		
106	31.9	3.0	63.0
77	10.1	0.0	38.2

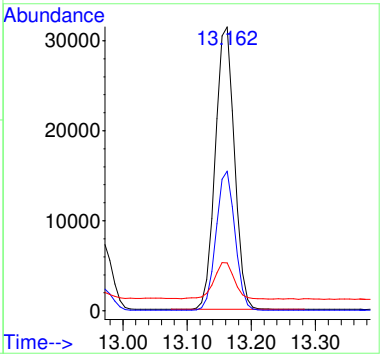


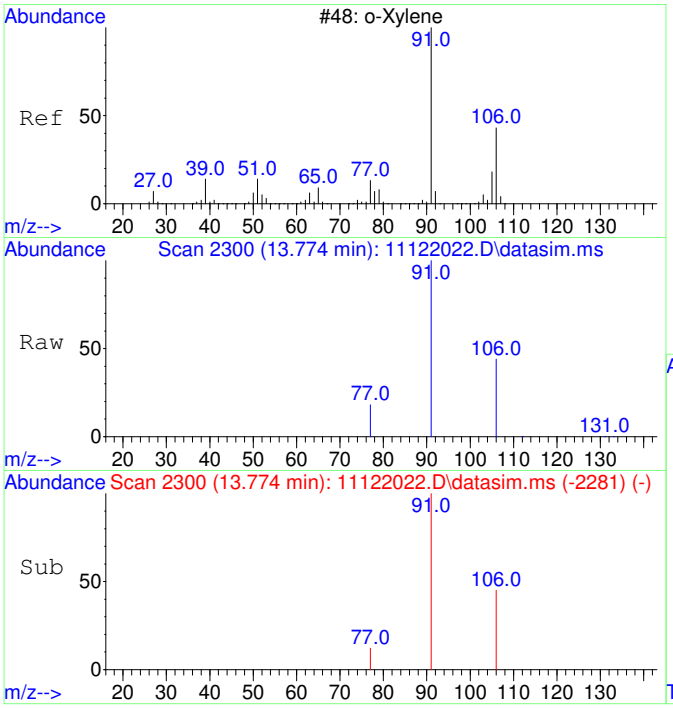


#19
m&p-Xylene
Concen: 609.38 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 91 Resp: 64889

Ion	Ratio	Lower	Upper
91	100		
106	48.7	22.2	82.2
77	13.6	0.0	42.4

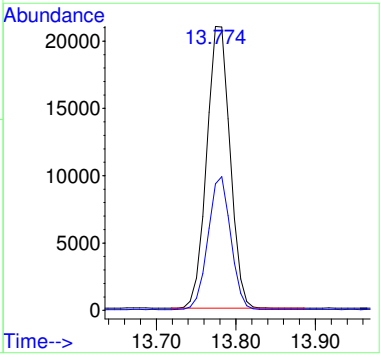


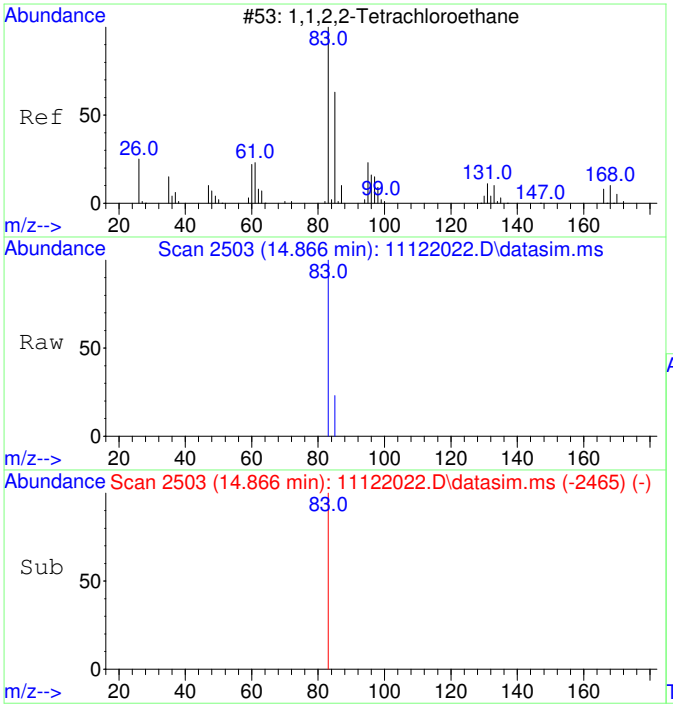


#20
o-Xylene
Concen: 375.50 ug/L
RT: 13.774 min Scan# 2300
Delta R.T. 0.000 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 91 Resp: 42719

Ion	Ratio	Lower	Upper
91	100		
106	45.8	19.2	79.2

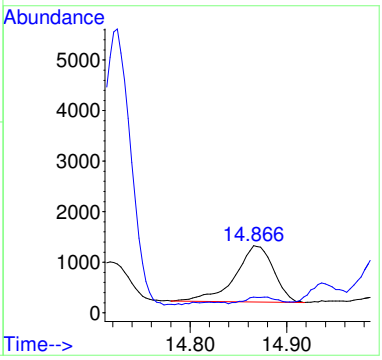


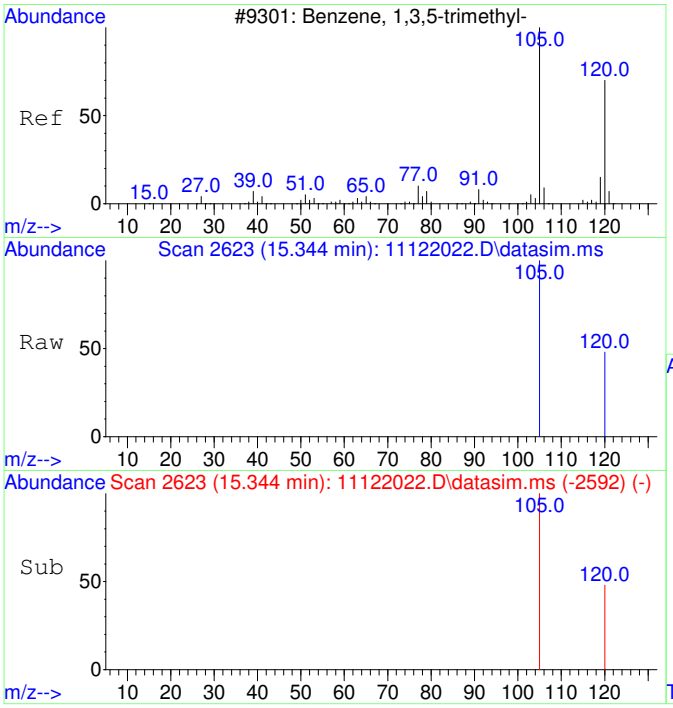


#21
1,1,2,2-Tetrachloroethane
Concen: 60.53 ug/L
RT: 14.866 min Scan# 2503
Delta R.T. -0.007 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 83 Resp: 3052

Ion	Ratio	Lower	Upper
83	100		
85	9.9	34.8	94.8#

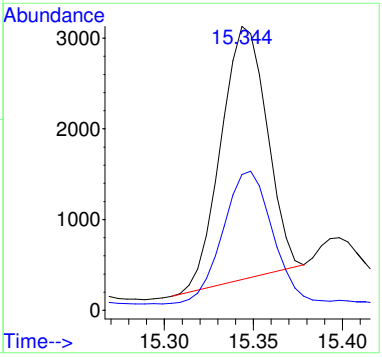


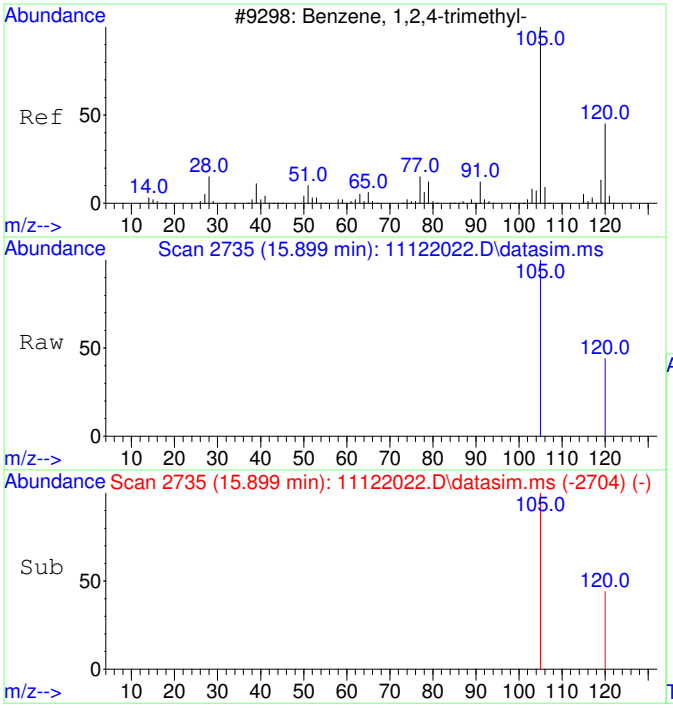


#22
1,3,5-Trimethylbenzene
Concen: 41.70 ug/L
RT: 15.344 min Scan# 2623
Delta R.T. -0.001 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:105 Resp: 5049

Ion	Ratio	Lower	Upper
105	100		
120	57.3	21.1	81.1

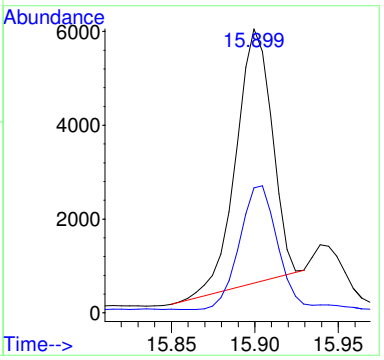


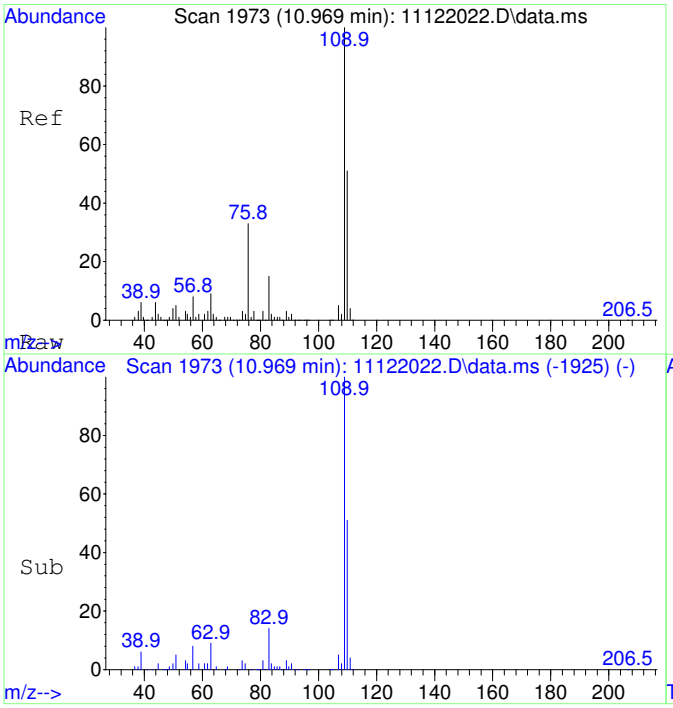


#23
1,2,4-Trimethylbenzene
Concen: 65.09 ug/L
RT: 15.899 min Scan# 2735
Delta R.T. 0.004 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:105 Resp: 8187

Ion	Ratio	Lower	Upper
105	100		
120	52.6	17.2	77.2

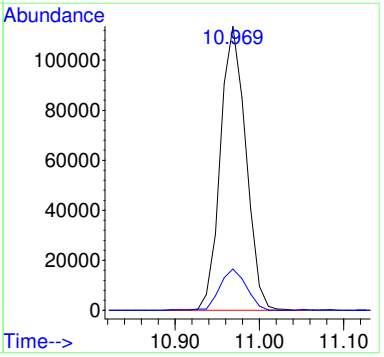


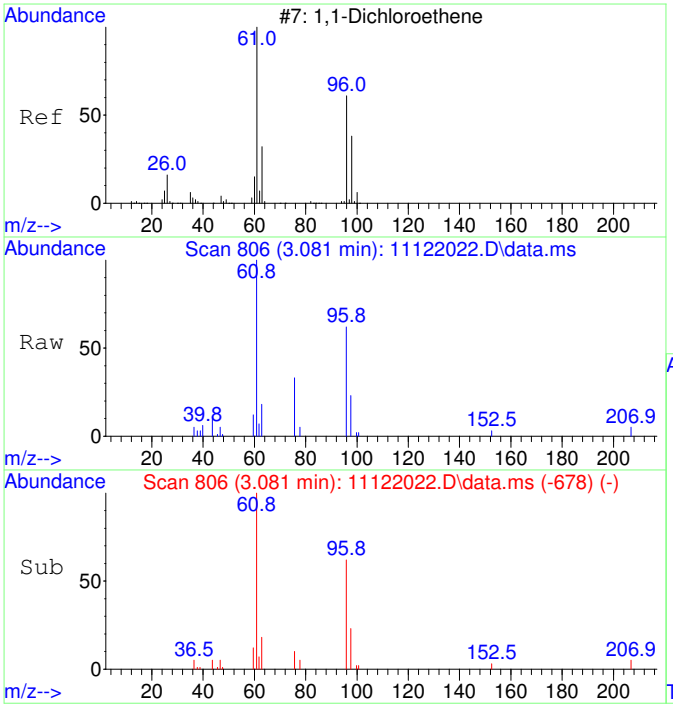


#25
2-Fluorotoluene SCAN
Concen: 5464.65 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:109 Resp: 238910

Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	43.8

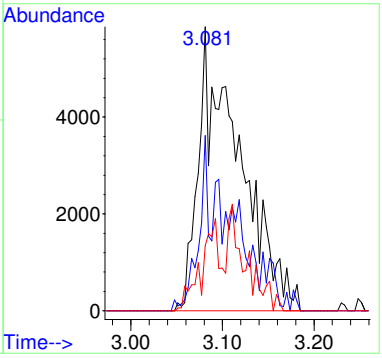


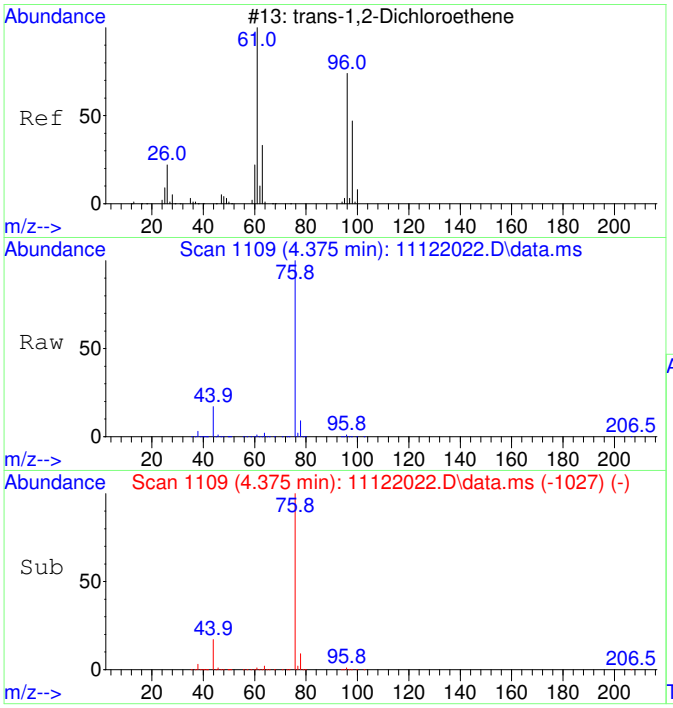


#26
1,1-Dichloroethene SCAN
Concen: 1968.95 ug/L
RT: 3.081 min Scan# 806
Delta R.T. -0.026 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 61 Resp: 18281

Ion	Ratio	Lower	Upper
61	100		
96	6.9	33.1	93.1#
98	0.0	11.2	71.2#

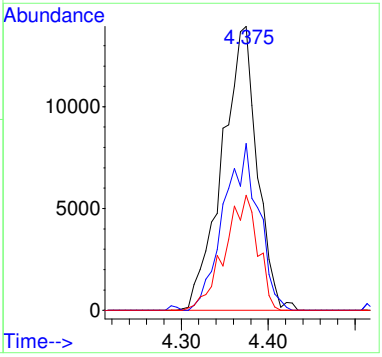


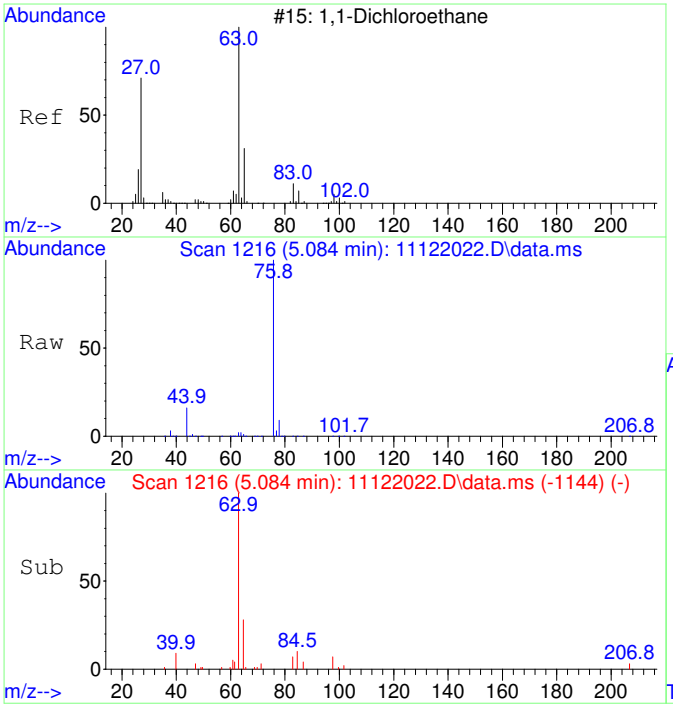


#27
trans-1,2-Dichloroethene SCAN
Concen: 3421.75 ug/L
RT: 4.375 min Scan# 1109
Delta R.T. -0.027 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 61 Resp: 39313

Ion	Ratio	Lower	Upper
61	100		
96	58.7	49.0	109.0
98	38.2	20.5	80.5

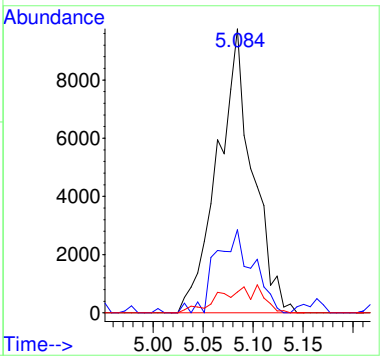


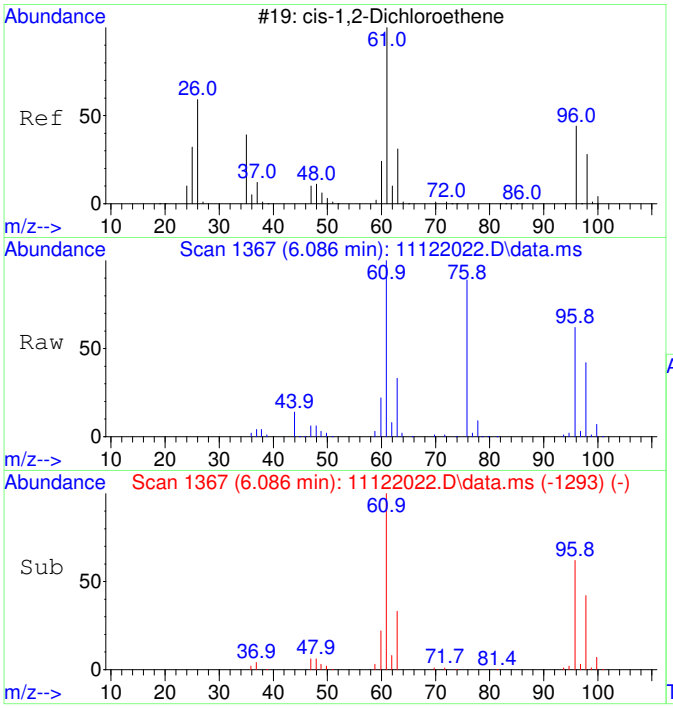


#28
1,1-Dichloroethane SCAN
Concen: 1785.36 ug/L
RT: 5.084 min Scan# 1216
Delta R.T. -0.020 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 63 Resp: 23739

Ion	Ratio	Lower	Upper
63	100		
65	30.5	1.3	61.3
83	11.5	0.0	45.9

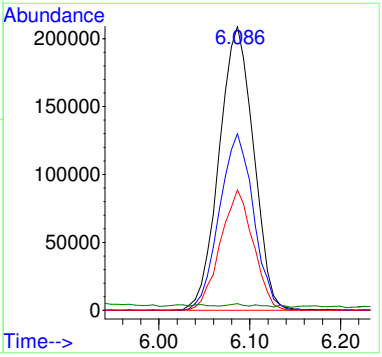


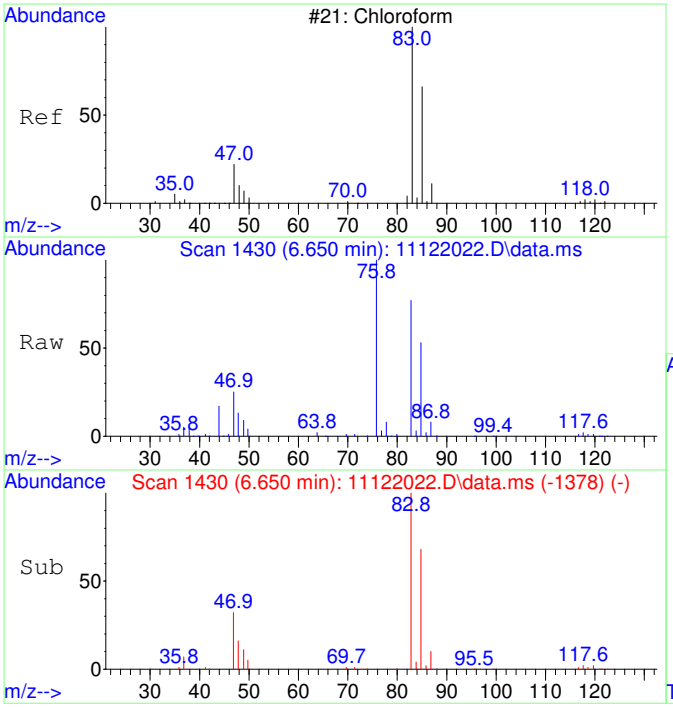


#29
cis-1,2-Dichloroethene SCAN
Concen: 38561.50 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 61 Resp: 549343

Ion	Ratio	Lower	Upper
61	100		
96	62.0	39.9	99.9
98	40.8	13.5	73.5
64	0.7	4.5	64.5#

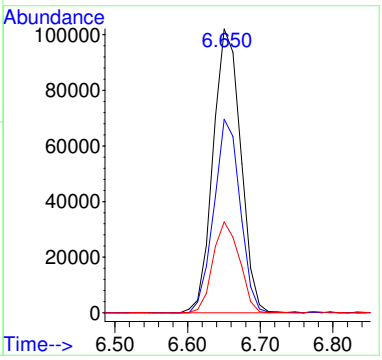


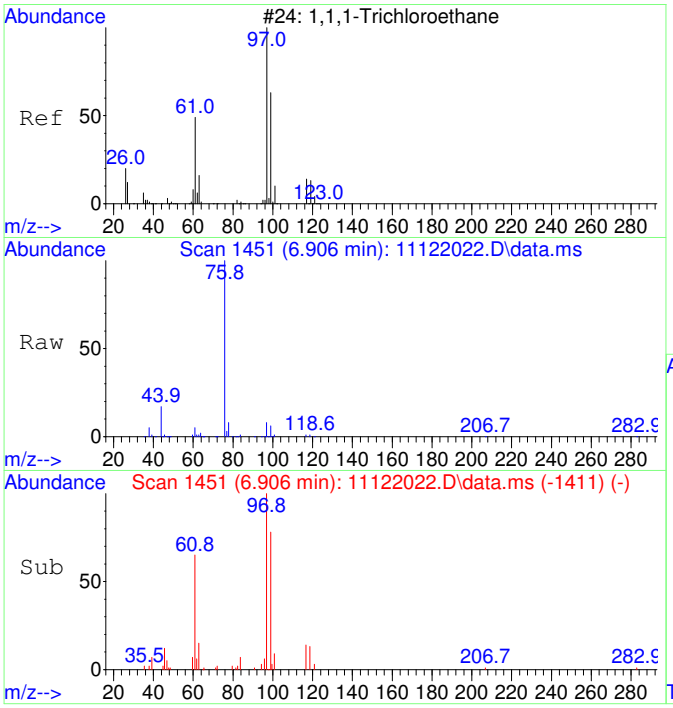


#30
Chloroform SCAN
Concen: 17497.09 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 83 Resp: 270359

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.6	94.6
47	30.7	0.0	53.4

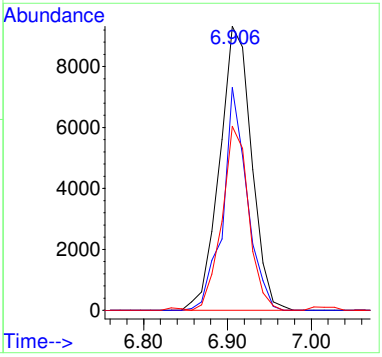


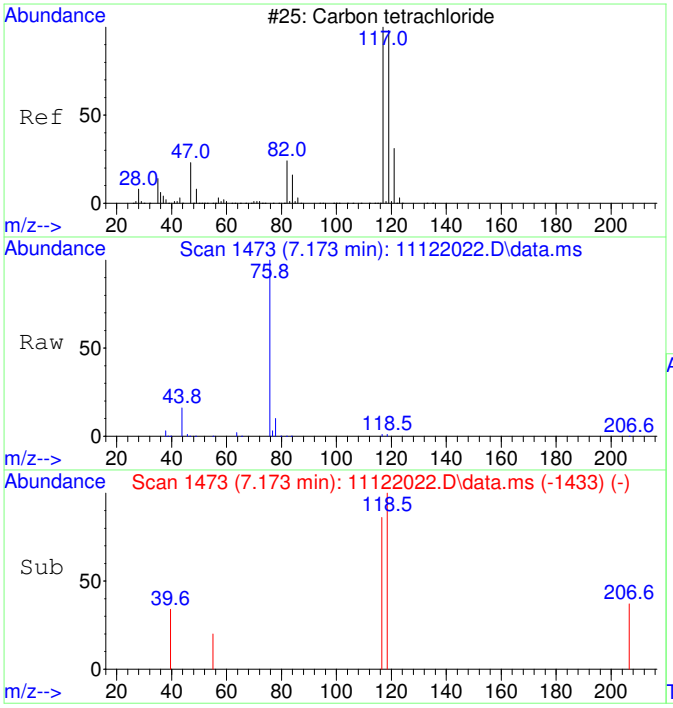


#31
1,1,1-Trichloroethane SCAN
Concen: 1741.66 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 97 Resp: 24524

Ion	Ratio	Lower	Upper
97	100		
99	59.5	43.6	103.6
61	54.8	18.0	78.0

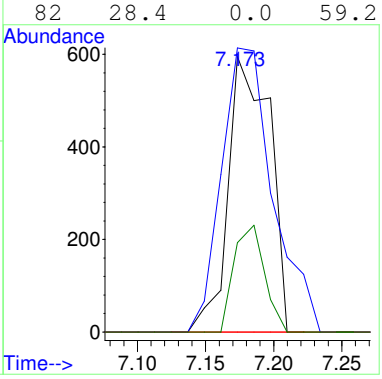


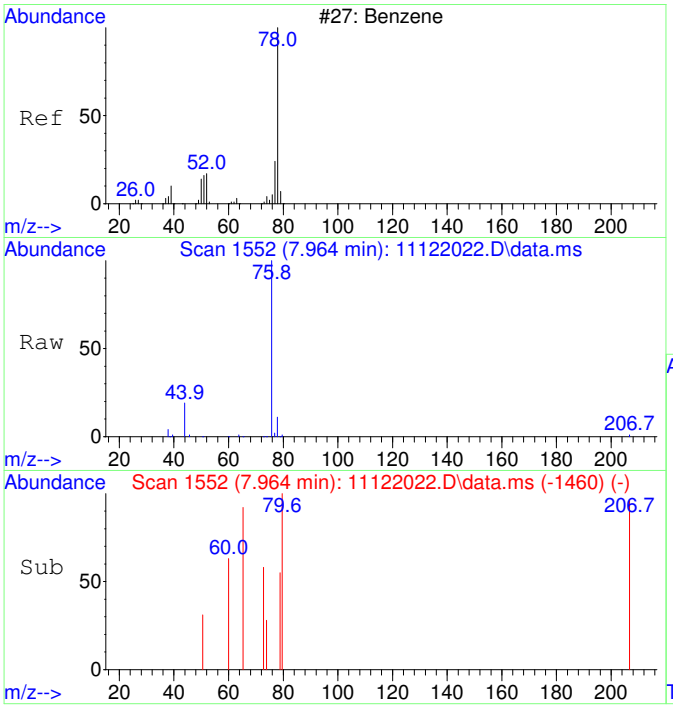


#32
Carbon tetrachloride SCAN
Concen: 86.60 ug/L
RT: 7.173 min Scan# 1473
Delta R.T. -0.012 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:117 Resp: 1272

Ion	Ratio	Lower	Upper
117	100		
119	127.1	75.5	135.5
121	0.0	0.0	58.8
82	28.4	0.0	59.2

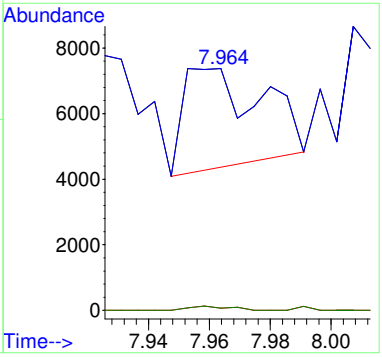


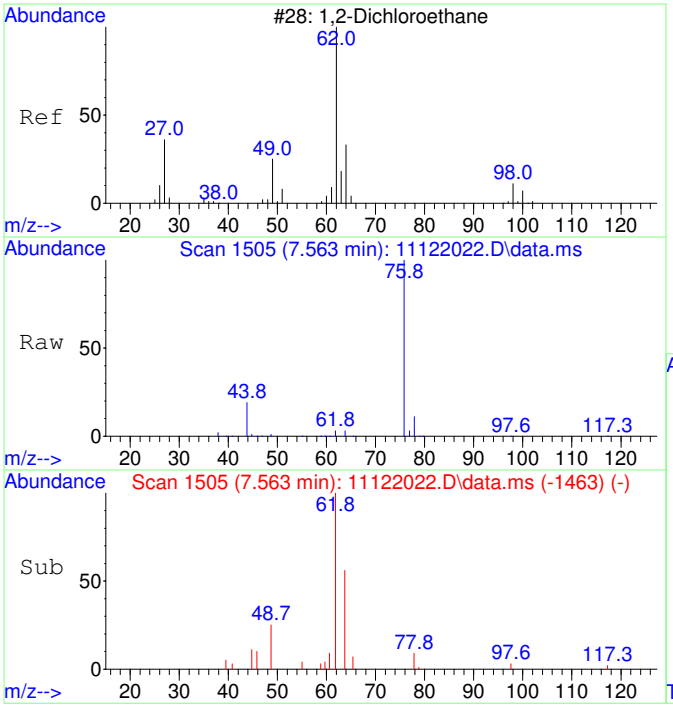


#33
Benzene SCAN
Concen: 140.47 ug/L
RT: 7.964 min Scan# 1552
Delta R.T. 0.450 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 78 Resp: 5446

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

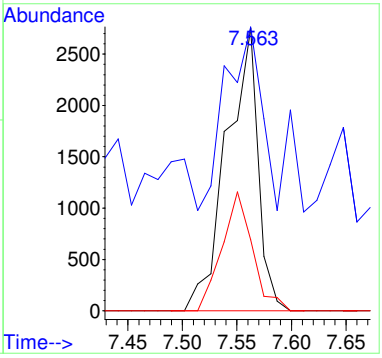


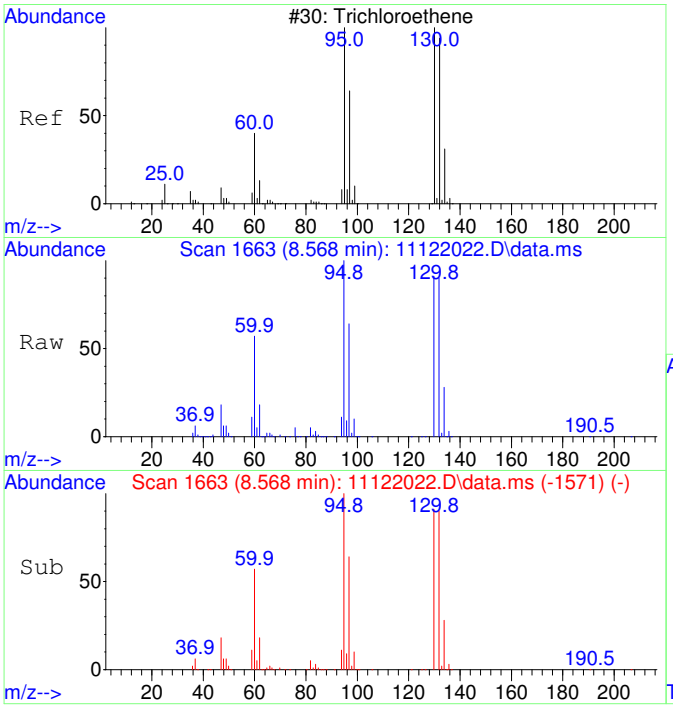


#34
1,2-Dichloroethane SCAN
Concen: 387.33 ug/L
RT: 7.563 min Scan# 1505
Delta R.T. 0.012 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 62 Resp: 5545

Ion	Ratio	Lower	Upper
62	100		
64	81.6	5.2	65.2#
49	40.7	3.9	63.9

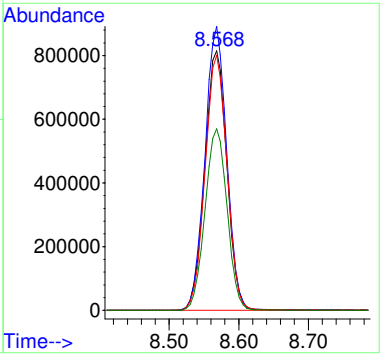


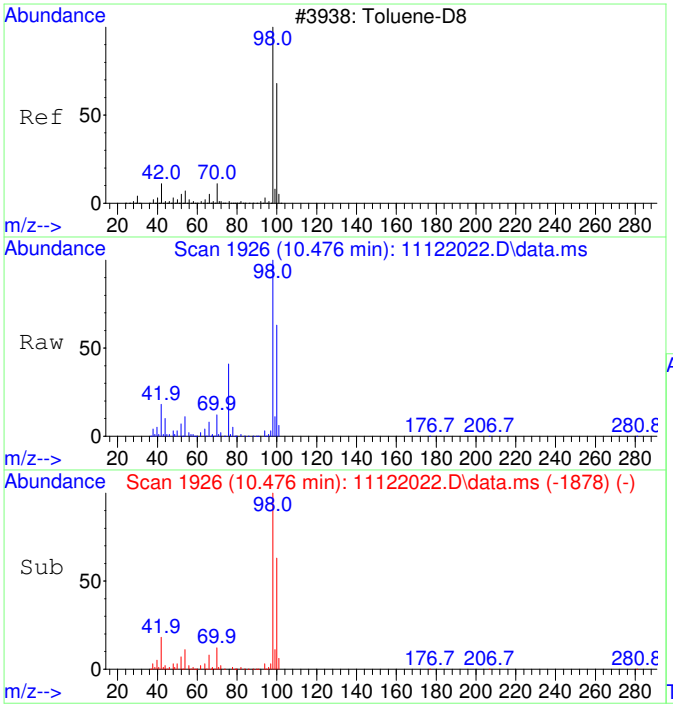


#35
Trichloroethene SCAN
Concen: 168204.11 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:130 Resp: 1792076

Ion	Ratio	Lower	Upper
130	100		
95	107.9	60.5	120.5
132	97.5	59.6	119.6
97	69.9	28.2	88.2

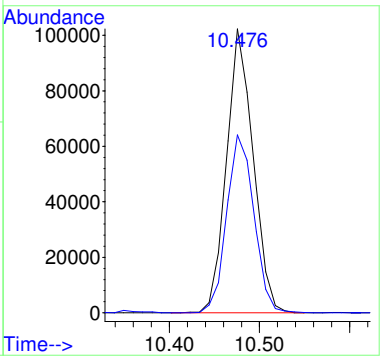


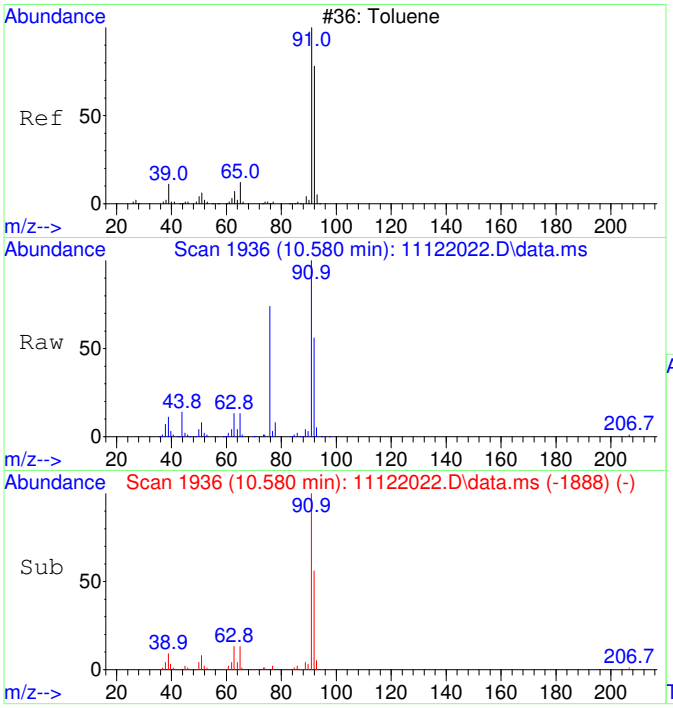


#36
Toluene-d8 SCAN
Concen: 4903.66 ug/L
RT: 10.476 min Scan# 1926
Delta R.T. 0.000 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 98 Resp: 209661

Ion	Ratio	Lower	Upper
98	100		
100	64.3	40.0	100.0

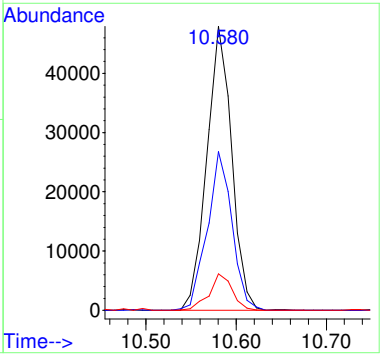


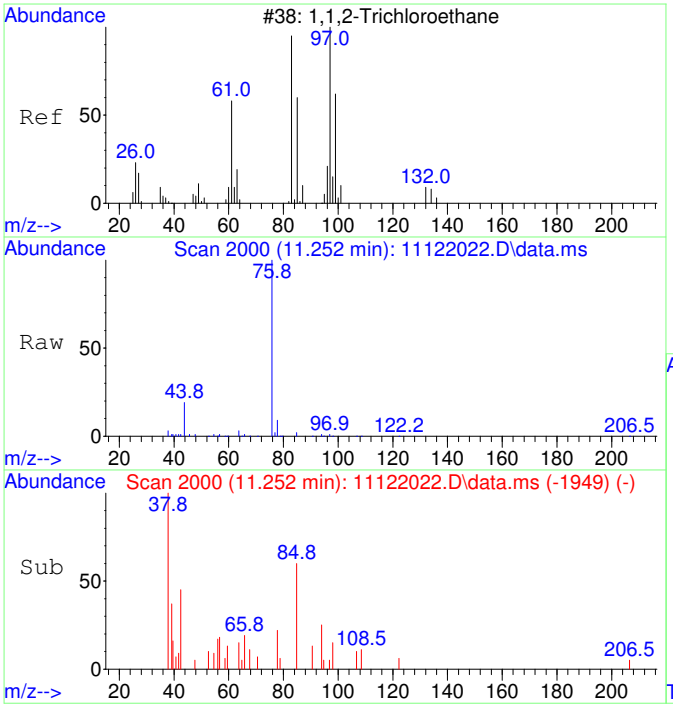


#37
Toluene SCAN
Concen: 1677.15 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 91 Resp: 91833

Ion	Ratio	Lower	Upper
91	100		
92	55.4	28.3	88.3
65	11.9	0.0	41.0

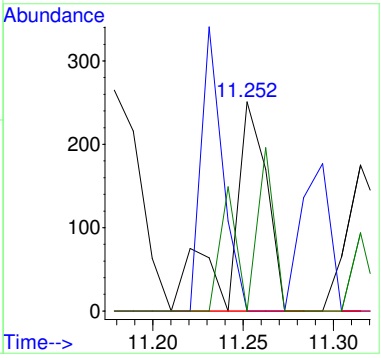


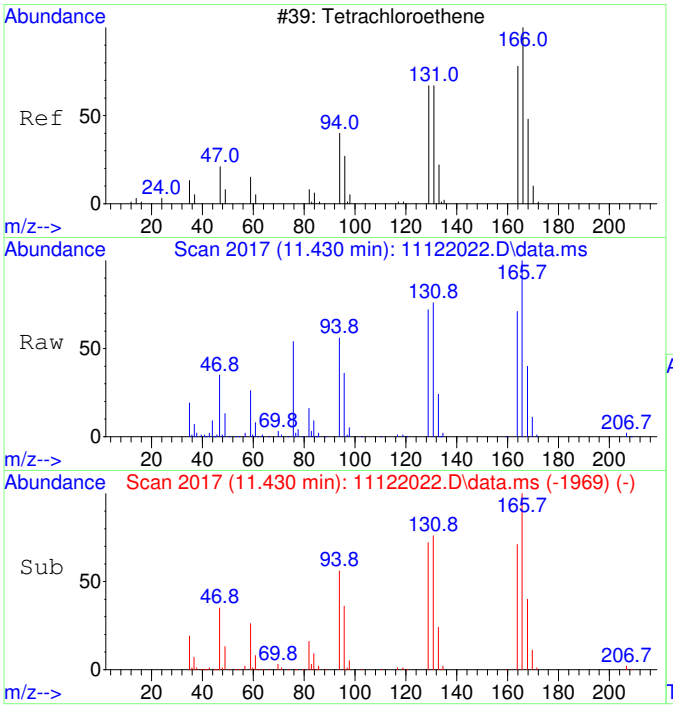


#38
1,1,2-Trichloroethane SCAN
Concen: 28.72 ug/L
RT: 11.252 min Scan# 2000
Delta R.T. 0.032 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 97 Resp: 353

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#

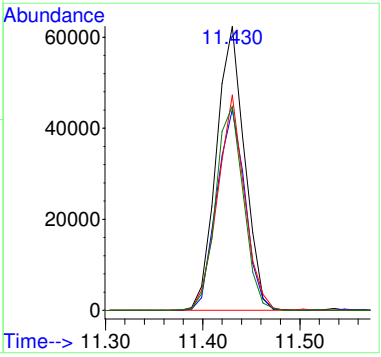


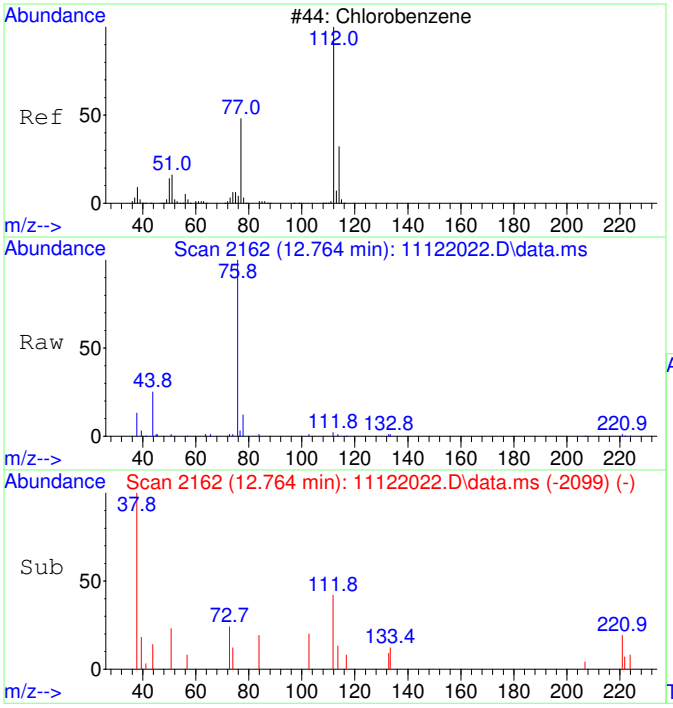


#39
Tetrachloroethene SCAN
Concen: 9536.87 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:166 Resp: 125456

Ion	Ratio	Lower	Upper
166	100		
164	71.5	50.9	110.9
131	72.8	38.7	98.7
129	71.0	41.8	101.8

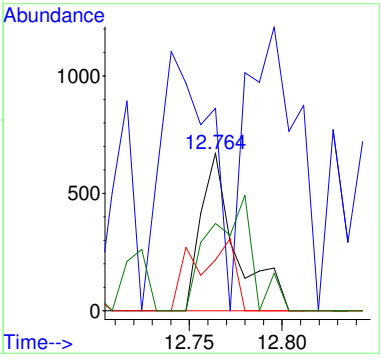


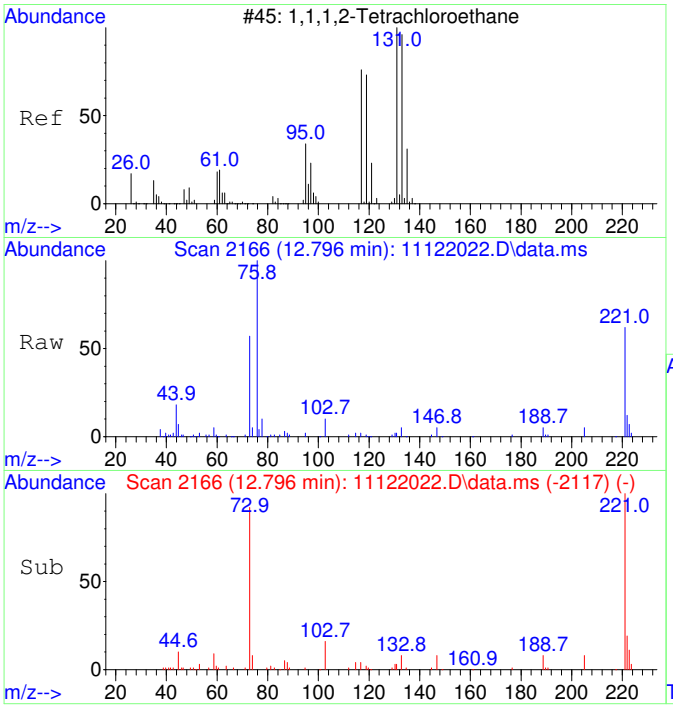


#40
Chlorobenzene SCAN
Concen: 23.84 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:112 Resp: 892

Ion	Ratio	Lower	Upper
112	100		
77	0.0	28.2	88.2#
114	50.7	2.3	62.3
51	87.6	0.0	50.1#

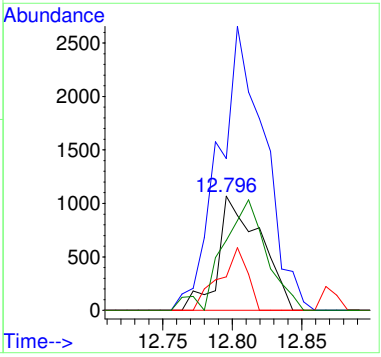


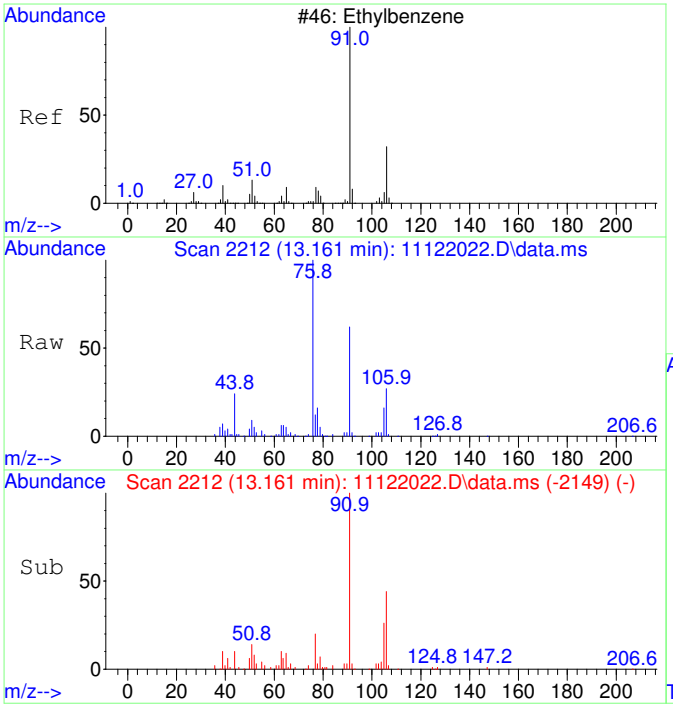


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 162.64 ug/L
RT: 12.796 min Scan# 2166
Delta R.T. -0.111 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:131 Resp: 2252

Ion	Ratio	Lower	Upper
131	100		
133	271.8	66.9	126.9#
119	36.5	40.4	100.4#
117	101.7	35.1	95.1#

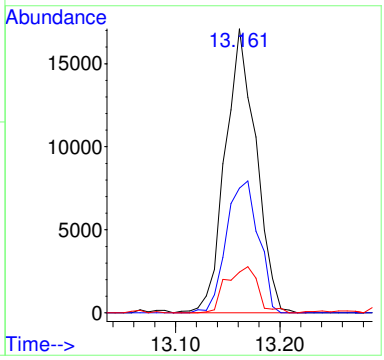


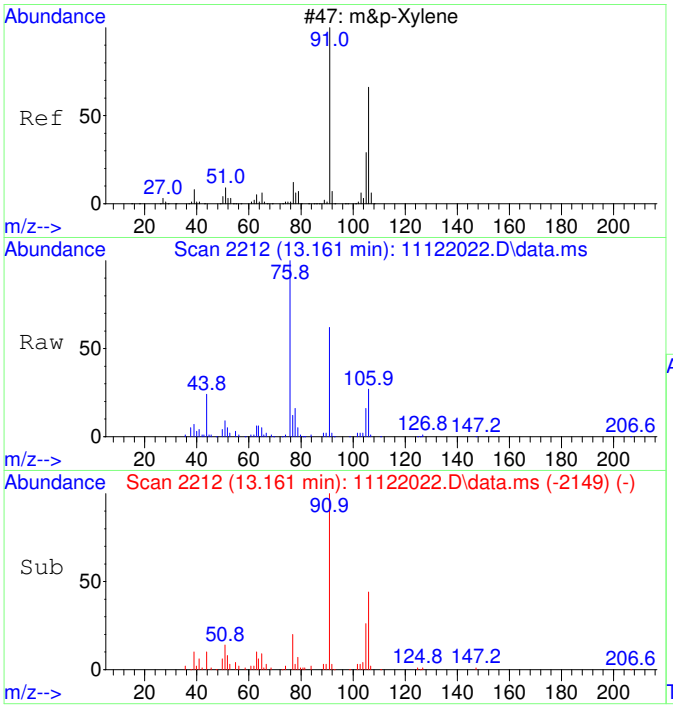


#42
Ethylbenzene SCAN
Concen: 351.01 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 91 Resp: 35015

Ion	Ratio	Lower	Upper
91	100		
106	48.7	23.1	83.1
51	16.7	0.0	40.1

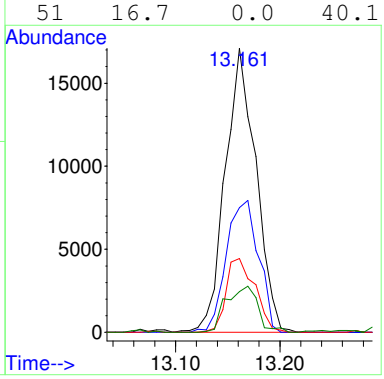


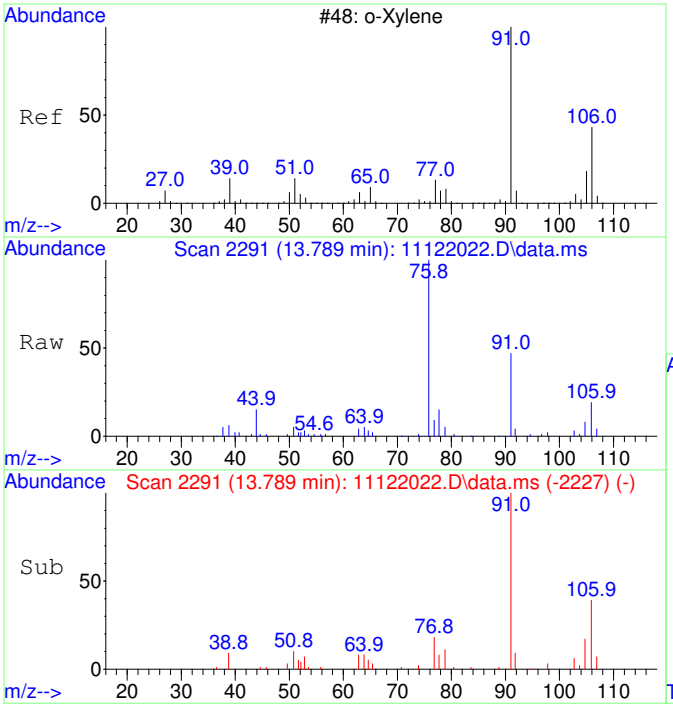


#43
m&p-Xylene SCAN
Concen: 351.01 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 91 Resp: 35015

Ion	Ratio	Lower	Upper
91	100		
106	48.7	23.1	83.1
105	24.5	0.0	54.7
51	16.7	0.0	40.1

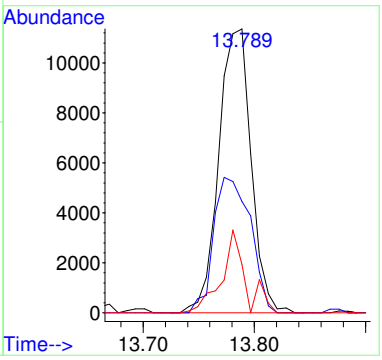


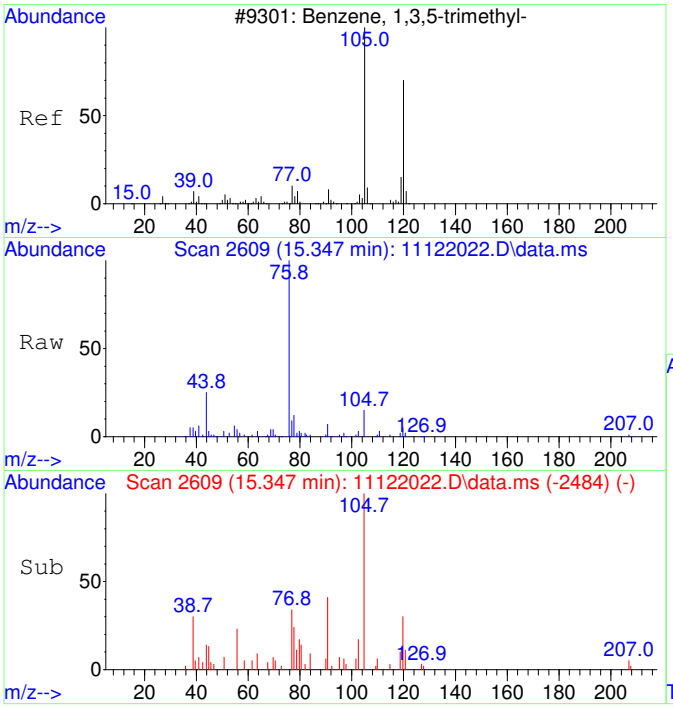


#44
o-Xylene SCAN
Concen: 431.30 ug/L
RT: 13.789 min Scan# 2291
Delta R.T. 0.008 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion: 91 Resp: 23030

Ion	Ratio	Lower	Upper
91	100		
106	54.3	18.0	78.0
105	21.3	0.0	56.6

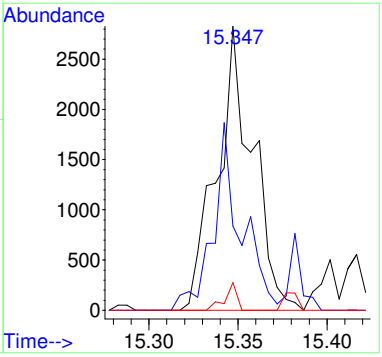


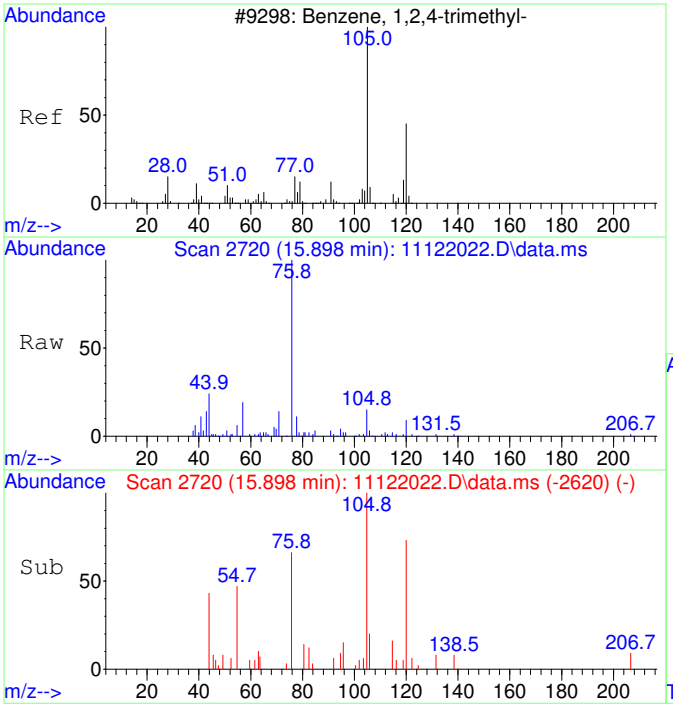


#46
1,3,5-Trimethylbenzene SCAN
Concen: 70.14 ug/L
RT: 15.347 min Scan# 2609
Delta R.T. 0.004 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:105 Resp: 3947

Ion	Ratio	Lower	Upper
105	100		
120	48.3	18.3	78.3
119	3.2	0.0	43.1

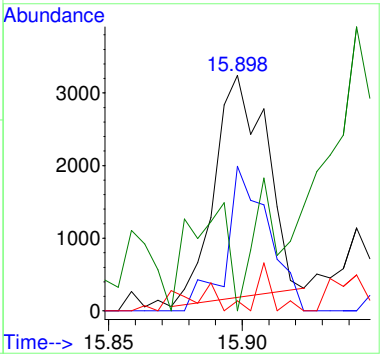




#47
1,2,4-Trimethylbenzene SCAN
Concen: 71.66 ug/L
RT: 15.898 min Scan# 2720
Delta R.T. -0.001 min
Lab File: 11122022.D
Acq: 12 Nov 2020 16:45

Tgt Ion:105 Resp: 4126

Ion	Ratio	Lower	Upper
105	100		
120	53.1	16.9	76.9
119	0.0	0.0	41.9
77	36.0	0.0	42.3



SEQUENCE

S20K055

Sequence Date: 11/13/2020

Instrument: AG5975CV

Sequence Analyses:

VOCs, Passive Samplers

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B20K043	SEQUENCE #:	S20K055 11/13/20
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.	Fri Aug 21 08:33:54 2020			
	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 #:	B20K043	SEQUENCE #:	S20K055 11/13/20
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?	☑			
	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 11/16/20
	REVIEWED BY:	Rajabi, Ziyad Digitally signed by Rajabi, Ziyad Date: 2020.11.23 14:44:21 -08'00' SIGN HERE

COMMENTS

Custom analyte list.

Injection Log

Operator: TD
Directory: C:\msdchem\1\Ravioli Data\2020\111320\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	11132001.D	1	S20K055-IBL1		13 Nov 2020 8:25
2	11132002.D	1	S20K055-TUN1	BFB 2040028	13 Nov 2020 8:47
3	11132003.D	1	S20K055-CCV1	2030070 5 mg/L	13 Nov 2020 11:33
4	11132004.D	1	S20K055-CRL1	2030073 0.05 mg/L	13 Nov 2020 11:56
5	11132005.D	1	2011015-06RE1	RA for CO	13 Nov 2020 12:20
6	11132006.D	1	2011016-01RE1	RA for CO	13 Nov 2020 12:44
7	11132007.D	10	2011015-01RE1	10X DL (180-20)	13 Nov 2020 13:07
8	11132008.D	10	2011015-02RE1	10X DL (180-20)	13 Nov 2020 13:31
9	11132009.D	10	2011015-03RE1	10X DL (180-20)	13 Nov 2020 13:55
10	11132010.D	10	2011015-04RE1	10X DL (180-20)	13 Nov 2020 14:18
11	11132011.D	10	2011015-05RE1	10X DL (180-20)	13 Nov 2020 14:42
12	11132012.D	10	2011015-12RE1	10X DL (180-20)	13 Nov 2020 15:06
13	11132013.D	20	2011015-13RE1	20X DL (190-10)	13 Nov 2020 15:29
14	11132014.D	20	2011015-15RE1	20X DL (190-10)	13 Nov 2020 15:53
15	11132015.D	10	2011016-03RE1	10X DL (180-20)	13 Nov 2020 16:16
16	11132016.D	10	2011016-04RE1	10X DL (180-20)	13 Nov 2020 16:40
17	11132017.D	10	2011016-05RE1	10X DL (180-20)	13 Nov 2020 17:04

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\Ravioli Data\2020\111320\11132002.D
Tune Time : 13 Nov 2020 8:47

Daily Calibration File : C:\msdchem\1\Ravioli Data\2020\111320\11132003.D

File	Sample	Surrogate Recovery %	Internal Standard Responses	
			374025	
11132003.D	S20K055-CC	97	374025	
11132004.D	S20K055-CR	1*	460945	
11132005.D	2011015-06RE1	87	464659	for CO
11132006.D	2011016-01RE1	86	553859	for CO
11132007.D	2011015-01RE1	86	415480	10X DL
11132008.D	2011015-02RE1	86	390603	10X DL
11132009.D	2011015-03RE1	85*	405936	10X DL
11132010.D	2011015-04RE1	86	472707	10X DL
11132011.D	2011015-05RE1	85*	388178	10X DL
11132012.D	2011015-12RE1	88	388688	10X DL
11132013.D	2011015-13RE1	87	325663	20X DL
11132014.D	2011015-15RE1	84*	369640	20X DL
11132015.D	2011016-03RE1	85*	430918	10X DL
11132016.D	2011016-04RE1	85*	374168	10X DL
11132017.D	2011016-05RE1	86	400638	10X DL

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

Created: Mon Nov 16 09:30:45 2020 AG5975C

Analysis Sequence

S20K055

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2008017 Printed: 11/18/2020 7:10 am

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S20K055-IBL1	Instrument Blank	1	11/13/20 8:25		2030067	TD	11132001.D	
S20K055-TUN1	BFB	2	11/13/20 8:47	2040028		TD	11132002.D	
S20K055-CCV1	Calibration Check	3	11/13/20 11:33	2030070		TD	11132003.D	
S20K055-CRL1	Instrument RL Check	4	11/13/20 11:56	2030073		TD	11132004.D	
2011015-06RE1 A	6Sixty-MH5-2ft-4d	5	11/13/20 12:20			TD	11132005.D	6Sixty-MH5-2ft-4d-R
2011016-01RE1 A	6Sixty-A1-SC-1ft-7d	6	11/13/20 12:44			TD	11132006.D	
2011015-01RE1 A	6Sixty-MH1-3ft-4d-R	7	11/13/20 13:07			TD	11132007.D	
2011015-02RE1 A	6Sixty-MH1-3ft-4d-R-Dup	8	11/13/20 13:31			TD	11132008.D	
2011015-03RE1 A	6Sixty-MH2-2ft-4d-R	9	11/13/20 13:55			TD	11132009.D	
2011015-04RE1 A	6Sixty-MH3-2ft-4d-R	10	11/13/20 14:18			TD	11132010.D	
2011015-05RE1 A	6Sixty-MH4-2ft-4d-R	11	11/13/20 14:42			TD	11132011.D	
2011015-12RE1 A	6Sixty-MH11-2ft-4d	12	11/13/20 15:06			TD	11132012.D	6Sixty-MH11-3ft-4d-R
2011015-13RE1 A	F6-010-3ft-4d-R	13	11/13/20 15:29			TD	11132013.D	
2011015-15RE1 A	F6-006-3ft-4d-R	14	11/13/20 15:53			TD	11132014.D	
2011016-03RE1 A	6Sixty-A3-SC-1ft-7d	15	11/13/20 16:16			TD	11132015.D	
2011016-04RE1 A	6Sixty-A3-SC-1ft-7d-Dup	16	11/13/20 16:40			TD	11132016.D	
2011016-05RE1 A	6Sixty-A4-SC-1ft-7d	17	11/13/20 17:04			TD	11132017.D	

Sequence Comments

Analysis Sequence

S20K055

(Continued)

Project: R21S04
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 2008017 Printed: 11/18/2020 7:10 am

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments

Reagents

Reagent #	Description

SEQUENCE DATA

S20K055

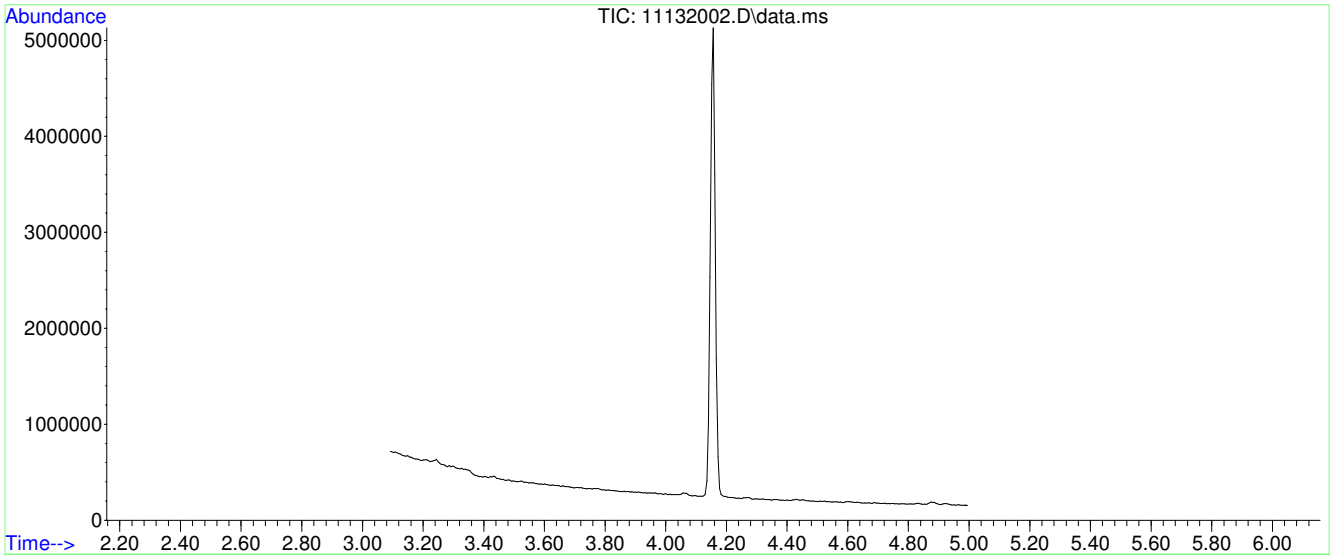
S20K055-TUN1

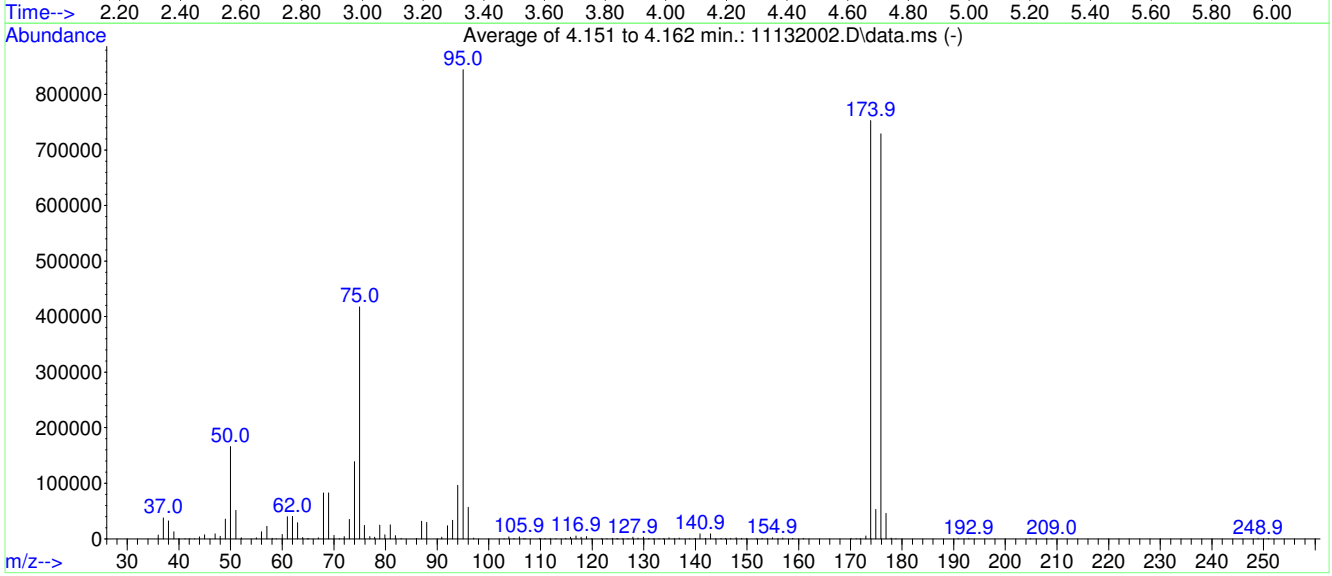
Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132002.D
Acq On : 13 Nov 2020 8:47
Operator : TD
Sample : S20K055-TUN1
Misc : BFB 2040028
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: Ravioli.P

Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Fri Aug 21 08:33:54 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	19.7	166131	PASS
75	95	30	60	49.4	417379	PASS
95	95	100	100	100.0	844331	PASS
96	95	5	9	6.7	56544	PASS
173	174	0.00	2	0.7	5401	PASS
174	95	50	120	89.2	752939	PASS
175	174	5	9	7.0	52877	PASS
176	174	95	101	96.8	729003	PASS
177	176	5	9	6.3	45813	PASS

Average of 4.151 to 4.162 min.: 11132002.D\data.ms
S20K055-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	6820	48.00	4613	61.00	39653	72.00	4180
37.00	37717	49.00	35416	62.00	40216	73.00	34772
38.00	32358	50.00	166131	63.00	29149	74.00	139003
39.00	12976	51.00	51104	63.95	2748	75.00	417379
40.00	529	52.05	2002	64.90	239	75.90	24107
41.20	109	55.00	2039	65.10	147	76.95	4275
42.10	51	56.00	12944	67.00	2130	77.90	2795
43.05	288	57.00	22590	68.00	82451	78.90	24703
44.00	3507	58.05	1088	69.00	82571	79.90	7075
44.95	7441	58.85	209	70.00	6015	80.90	25203
47.00	8728	60.00	7778	71.05	274	81.90	5784

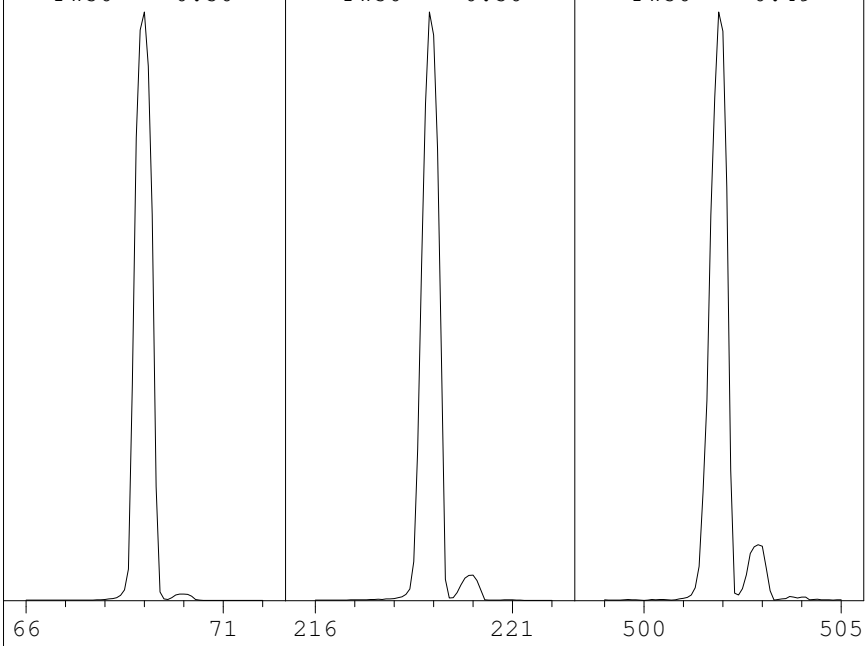
Average of 4.151 to 4.162 min.: 11132002.D\data.ms
S20K055-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.00	652	102.95	395	115.85	2900	126.95	276
86.00	780	103.90	3646	116.90	5400	127.90	2959
87.00	31819	104.90	944	117.85	2903	128.90	1516
88.00	29411	105.90	3651	118.90	4283	129.90	2773
90.90	3052	106.80	432	119.90	265	130.95	1006
92.00	23373	107.00	339	121.80	123	131.90	201
93.00	33608	109.85	579	122.85	198	132.95	242
94.00	96411	110.85	756	123.90	639	133.80	264
95.00	844331	111.85	474	124.80	78	134.90	1726
96.00	56544	112.95	559	124.95	197	135.90	276
97.05	1586	114.90	789	125.90	371	136.85	1472

Average of 4.151 to 4.162 min.: 11132002.D\data.ms
S20K055-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
138.85	243	149.90	928	171.90	189	208.00	54
139.95	579	151.85	419	173.00	5401	209.00	150
140.90	8927	152.90	678	173.90	752939	248.90	146
141.95	1066	153.90	491	174.90	52877	250.90	56
142.90	8841	154.90	2096	175.90	729003		
143.85	405	156.00	252	176.90	45813		
144.95	763	156.90	1406	177.90	1299		
145.85	959	158.85	964	178.80	51		
146.85	679	160.85	894	190.90	166		
147.90	2123	170.15	195	192.90	185		
148.90	588	171.10	202	204.80	60		

Mass	69.00	Mass	218.90	Mass	501.90
Ab	498976	Ab	316355	Ab	9315
Pw50	0.50	Pw50	0.50	Pw50	0.49

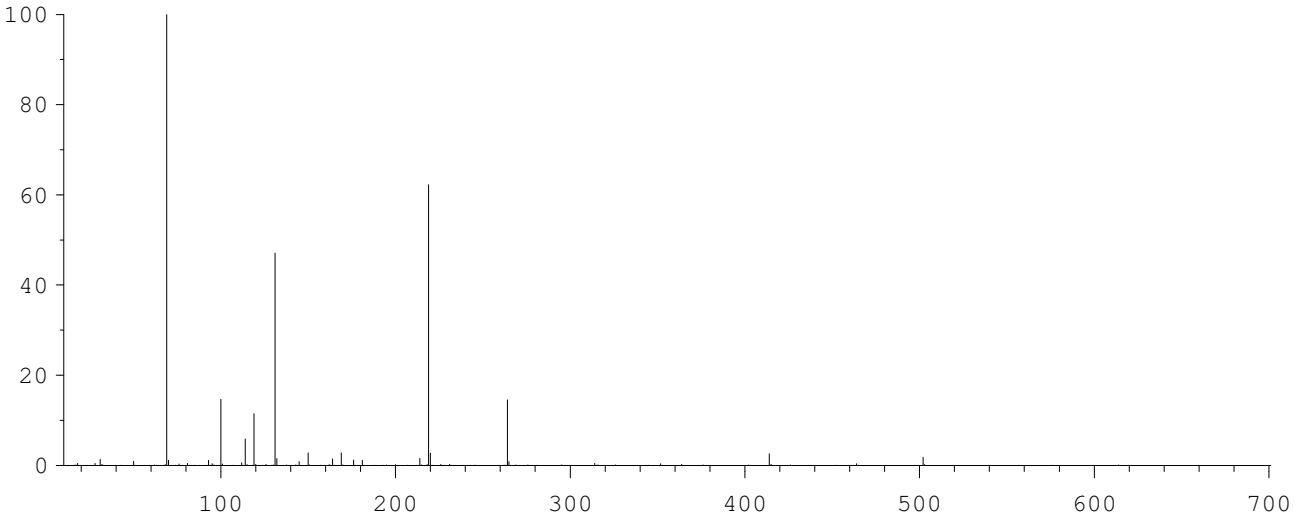


Ion Pol	Pos	MassGain	-1192
		MassOffs	-39
Emission	34.6	AmuGain	978
EIEnrgy	69.9	AmuOffs	127.94
Filament	1	Wid219	-0.003
		DC Pol	Pos
Repeller	29.79		
IonFcus	69.3	HEDEnab	On
EntLens	0.0	EMVolts	1329
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

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
112 peaks Base: 69.00 Abundance: 471680



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	471680	100.00	70.00	5291	1.12
219.00	293504	62.23	220.00	12650	4.31
502.00	8323	1.76	503.00	892	10.72

Air/Water Check: H20~0.45% N2~0.44% O2~0.23% CO2~0.00% N2/H2O~98.07%

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 42297
Repeller Maximum 30 volts using ion 219; Gain Factor 0.42

MassGain Values(Samples): -1180(3) -1178(2) -1158(1) -1127(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(%):	0.9	100.0	47.1	62.2	2.6	1.8	

S20K055-CCV1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132003.D
Acq On : 13 Nov 2020 11:33
InstName : AG5975C
Operator : TD
Sample : S20K055-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 13 11:52:00 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 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	56	0.00
2	T	1,1-Dichloroethene	0.200	0.217	-8.5	64	0.00
3	T	trans-1,2-Dichloroethene	0.231	0.243	-5.2	63	-0.03
4	T	1,1-Dichloroethane	0.287	0.298	-3.8	62	-0.02
5	T	cis-1,2-Dichloroethene	0.303	0.308	-1.7	61	-0.01
6	T	Chloroform	0.310	0.310	0.0	59	-0.01
7	T	1,1,1-Trichloroethane	0.337	0.330	2.1	58	-0.01
8	T	Carbon tetrachloride	0.317	0.305	3.8	56	-0.01
9	T	Benzene	0.850	0.835	1.8	60	-0.01
10	T	1,2-Dichloroethane	0.303	0.297	2.0	58	-0.01
11	T	Trichloroethene	0.256	0.244	4.7	56	0.00
12	S	Toluene-d8	0.979	0.948	3.2	56	0.00
13	T	Toluene	1.248	1.142	8.5	57	0.00
14	T	1,1,2-Trichloroethane	0.272	0.256	5.9	56	0.00
15	T	Tetrachloroethene	0.361	0.333	7.8	53	0.01
16	T	Chlorobenzene	0.894	0.850	4.9	55	0.00
17	T	1,1,1,2-Tetrachloroethane	0.320	0.295	7.8	53	0.00
18	T	Ethylbenzene	1.519	1.403	7.6	55	0.00
19	T	m&p-Xylene	1.187	1.064	10.4	54	0.00
20	T	o-Xylene	1.268	1.150	9.3	53	0.00
21	T	1,1,2,2-Tetrachloroethane	0.562	0.512	8.9	53	0.00
22	T	1,3,5-Trimethylbenzene	1.350	1.221	9.6	52	0.00
23	T	1,2,4-Trimethylbenzene	1.402	1.225	12.6	52	0.00
24	T	Naphthalene	2.216	1.984	10.5	51	0.00
25		2-Fluorotoluene SCAN	0.487	0.521	-7.0	59	0.00
26		1,1-Dichloroethene SCAN	0.104	0.134	-28.8	72	-0.01
27		trans-1,2-Dichloroethene SC	0.128	0.140	-9.4	61	-0.03
28		1,1-Dichloroethane SCAN	0.148	0.178	-20.3	67	-0.02
29		cis-1,2-Dichloroethene SCAN	0.159	0.181	-13.8	63	0.00
30		Chloroform SCAN	0.172	0.170	1.2	55	0.00
31		1,1,1-Trichloroethane SCAN	0.157	0.173	-10.2	61	-0.01
32		Carbon tetrachloride SCAN	0.164	0.162	1.2	55	-0.01
33		Benzene SCAN	0.432	0.486	-12.5	62	0.00
34		1,2-Dichloroethane SCAN	0.160	0.176	-10.0	61	0.00
35		Trichloroethene SCAN	0.119	0.129	-8.4	60	0.00
36		Toluene-d8 SCAN	0.477	0.517	-8.4	60	0.00
37		Toluene SCAN	0.610	0.621	-1.8	57	0.00
38		1,1,2-Trichloroethane SCAN	0.137	0.141	-2.9	57	0.01
39		Tetrachloroethene SCAN	0.147	0.165	-12.2	63	0.00
40		Chlorobenzene SCAN	0.417	0.437	-4.8	58	0.00
41		1,1,1,2-Tetrachloroethane S	0.154	0.142	7.8	51	0.00
42		Ethylbenzene SCAN	1.112	1.150	-3.4	57	0.00
43		m&p-Xylene SCAN	1.112	1.150	-3.4	57	0.00
44		o-Xylene SCAN	0.595	0.619	-4.0	58	0.00
45		1,1,2,2-Tetrachloroethane S	0.290	0.302	-4.1	58	0.00
46		1,3,5-Trimethylbenzene SCAN	0.627	0.632	-0.8	56	0.00
47		1,2,4-Trimethylbenzene SCAN	0.642	0.636	0.9	55	0.00
48		Naphthalene SCAN	0.971	0.942	3.0	54	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\111320\
Data File : 11132003.D
Acq On : 13 Nov 2020 11:33
InstName : AG5975C
Operator : TD
Sample : S20K055-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 13 11:52:00 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

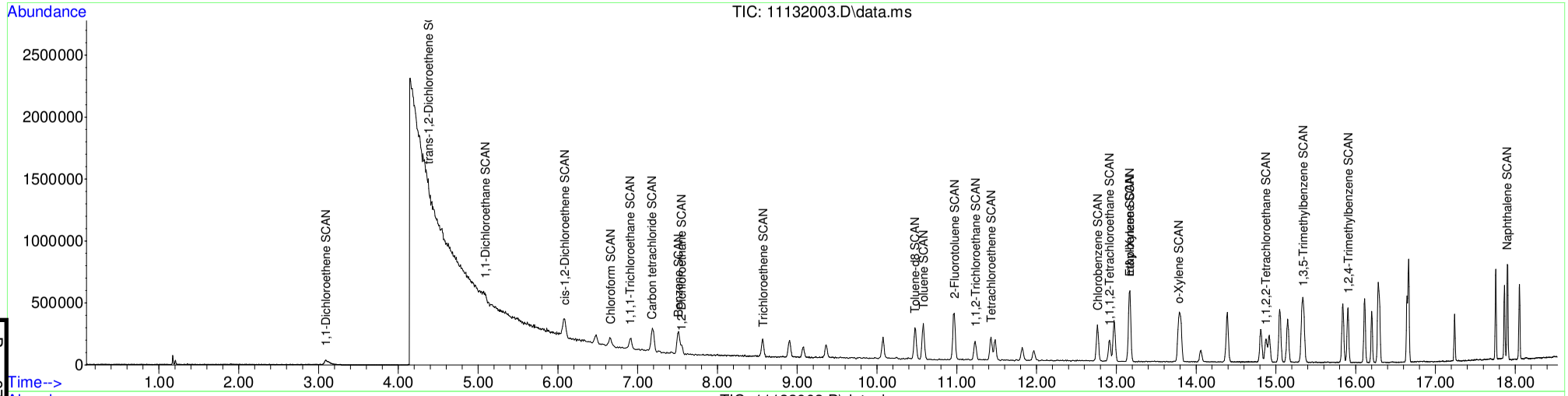
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	374025	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	354399	4840.23 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 96.80%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	81330	5445.44 ug/L	83
3] trans-1,2-Dichloroethene	4.369	61	91030	5275.29 ug/L	98
4] 1,1-Dichloroethane	5.079	63	111380	5185.21 ug/L	98
5] cis-1,2-Dichloroethene	6.081	61	115343	5087.02 ug/L	99
6] Chloroform	6.652	83	115897	4993.91 ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	123516	4900.70 ug/L	99
8] Carbon tetrachloride	7.175	117	114046	4807.62 ug/L	100
9] Benzene	7.503	78	312384	4915.65 ug/L	99
10] 1,2-Dichloroethane	7.540	62	111041	4894.79 ug/L	99
11] Trichloroethene	8.564	130	91280	4770.63 ug/L	93
13] Toluene	10.571	91	427080	4575.14 ug/L	100
14] 1,1,2-Trichloroethane	11.222	97	95739	4706.81 ug/L	96
15] Tetrachloroethene	11.432	166	124519	4609.30 ug/L	100
16] Chlorobenzene	12.765	112	317892	4755.97 ug/L	92
17] 1,1,1,2-Tetrachloroethane	12.916	131	110442	4611.29 ug/L	99
18] Ethylbenzene	12.972	91	524936	4619.93 ug/L	98
19] m&p-Xylene	13.162	91	795906	8962.46 ug/L	97
20] o-Xylene	13.782	91	430209	4534.43 ug/L	97
21] 1,1,2,2-Tetrachloroethane	14.877	83	191684	4558.66 ug/L	100
22] 1,3,5-Trimethylbenzene	15.345	105	456603	4521.52 ug/L	97
23] 1,2,4-Trimethylbenzene	15.901	105	458033	4366.70 ug/L	97
24] Naphthalene	17.903	128	742097	4476.33 ug/L	100
25) 2-Fluorotoluene SCAN	10.969	109	194899	5345.48 ug/L	96
26) 1,1-Dichloroethene SCAN	3.092	61	50002	6457.59 ug/L #	67
27) trans-1,2-Dichloroethe...	4.375	61	52197	5447.62 ug/L	81
28) 1,1-Dichloroethane SCAN	5.084	63	66604	6006.39 ug/L	93
29) cis-1,2-Dichloroethene...	6.086	61	67657	5694.72 ug/L #	77
30) Chloroform SCAN	6.662	83	63565	4932.78 ug/L	90
31) 1,1,1-Trichloroethane ...	6.906	97	64656	5505.92 ug/L	88
32) Carbon tetrachloride SCAN	7.173	117	60755	4959.91 ug/L	91
33) Benzene SCAN	7.514	78	181651	5618.17 ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	65905	5520.15 ug/L	96
35) Trichloroethene SCAN	8.574	130	48264	5431.91 ug/L	85
36) Toluene-d8 SCAN	10.476	98	193477	5426.01 ug/L	93
37) Toluene SCAN	10.580	91	232368	5088.59 ug/L	97
38) 1,1,2-Trichloroethane ...	11.231	97	52573	5129.20 ug/L	91
39) Tetrachloroethene SCAN	11.431	166	61898	5642.09 ug/L	96
40) Chlorobenzene SCAN	12.764	112	163332	5234.40 ug/L	92
41) 1,1,1,2-Tetrachloroeth...	12.915	131	52963	4586.43 ug/L	96
42) Ethylbenzene SCAN	13.169	91	429942	5168.03 ug/L	90
43) m&p-Xylene SCAN	13.169	91	429942	5168.03 ug/L	90
44) o-Xylene SCAN	13.781	91	231516	5198.98 ug/L	95
45) 1,1,2,2-Tetrachloroeth...	14.875	83	112908	5199.79 ug/L	99
46) 1,3,5-Trimethylbenzene...	15.343	105	236197	5032.84 ug/L	98
47) 1,2,4-Trimethylbenzene...	15.904	105	237819	4952.40 ug/L	93
48) Naphthalene SCAN	17.901	128	352244	4847.60 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132003.D
Acq On : 13 Nov 2020 11:33
InstName : AG5975C
Operator : TD
Sample : S20K055-CCV1
Misc : 2030070 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 13 11:52:00 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



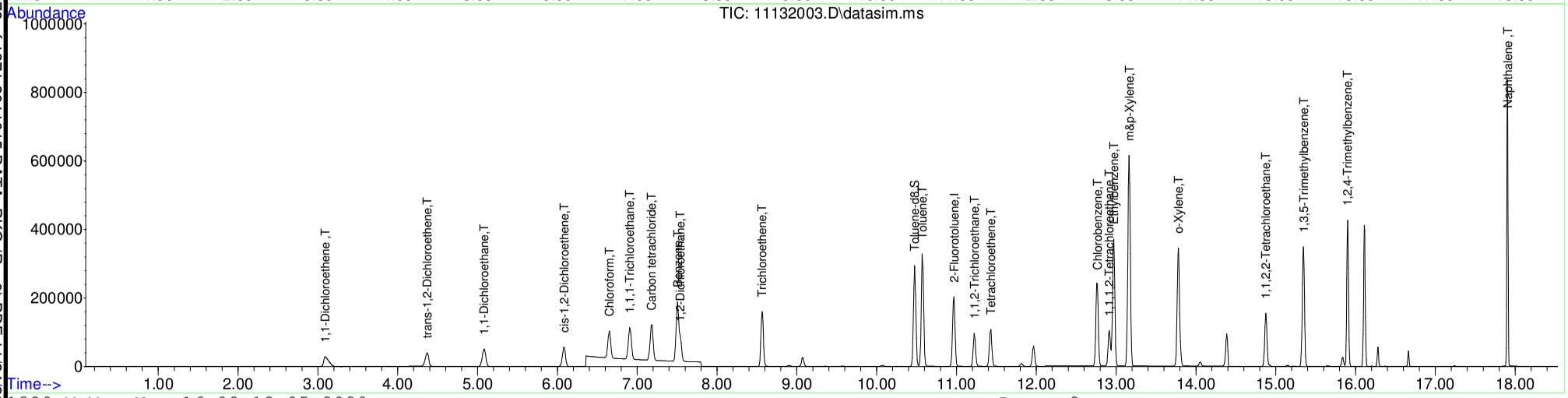


Table of Contents

S20K055-CRL1

QLS REPORT

Instrument Name: AG5975C
Sample Name: S20K055-CRL1
Misc Info: 2030073 0.05 mg/L
Date Acquired: 11/13/20 11:56
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	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.090	50.0	48.73	97%	60	140	pass
3)	trans-1,2-Dichloroethene	4.396	50.0	49.84	100%	60	140	pass
4)	1,1-Dichloroethane	5.099	50.0	50.39	101%	60	140	pass
5)	cis-1,2-Dichloroethene	6.094	50.0	49.14	98%	60	140	pass
6)	Chloroform	6.664	50.0	48.22	96%	60	140	pass
7)	1,1,1-Trichloroethane	6.919	50.0	46.65	93%	60	140	pass
8)	Carbon tetrachloride	7.187	50.0	45.36	91%	60	140	pass
10)	1,2-Dichloroethane	7.552	50.0	48.86	98%	60	140	pass
11)	Trichloroethene	8.569	50.0	47.79	96%	60	140	pass
12)	Toluene-d8	10.477	50.0	49.50	99%	60	140	pass
13)	Toluene	10.571	50.0	50.08	100%	60	140	pass
14)	1,1,2-Trichloroethane	11.222	50.0	48.03	96%	60	140	pass
15)	Tetrachloroethene	11.421	50.0	48.60	97%	60	140	pass
16)	Chlorobenzene	12.757	50.0	52.03	104%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.908	50.0	48.99	98%	60	140	pass
18)	Ethylbenzene	12.964	50.0	52.91	106%	60	140	pass
19)	m&p-Xylene	13.162	100.0	105.95	106%	60	140	pass
20)	o-Xylene	13.774	50.0	52.24	104%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.873	50.0	50.75	102%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.345	50.0	52.70	105%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.896	50.0	53.54	107%	60	140	pass
24)	Naphthalene	17.903	50.0	50.74	101%	60	140	pass

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132004.D
Acq On : 13 Nov 2020 11:56
InstName : AG5975C
Operator : TD
Sample : S20K055-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 16 08:18:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

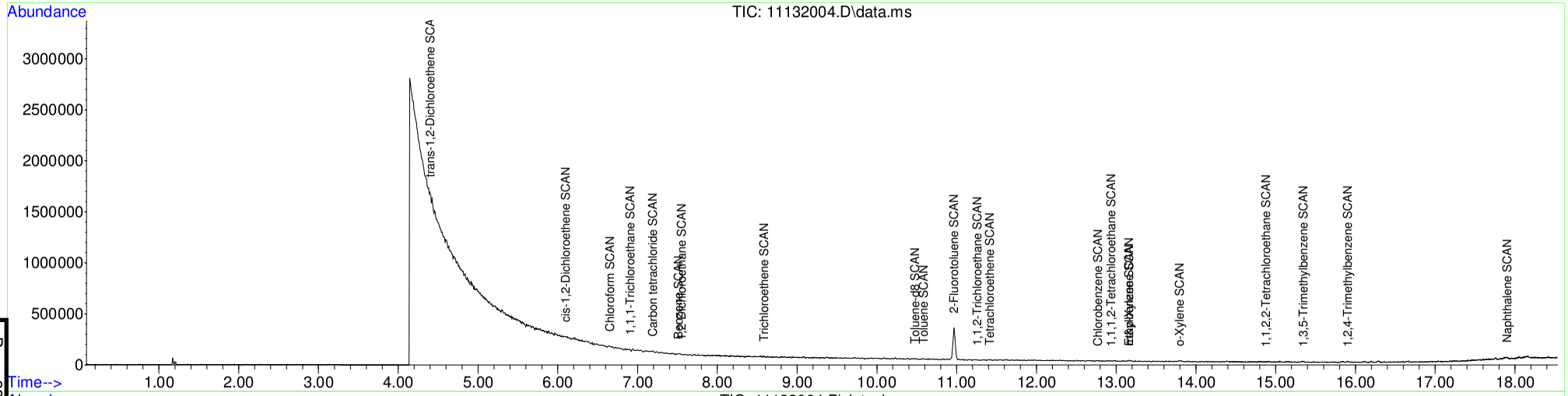
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	460945	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	4467	49.50 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	0.99%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	1304	70.85 ug/L	91
3] trans-1,2-Dichloroethene	4.382	61	1060	49.84 ug/L	87
4] 1,1-Dichloroethane	5.086	63	1334	50.39 ug/L	64
5] cis-1,2-Dichloroethene	6.088	61	1373	49.14 ug/L	99
6] Chloroform	6.651	83	1379	48.22 ug/L	98
7] 1,1,1-Trichloroethane	6.907	97	1449	46.65 ug/L	99
8] Carbon tetrachloride	7.187	117	1326	45.36 ug/L	99
9] Benzene	7.503	78	4218	53.86 ug/L	51
10] 1,2-Dichloroethane	7.539	62	1366	48.86 ug/L	69
11] Trichloroethene	8.569	130	1127	47.79 ug/L	94
13] Toluene	10.571	91	5761	50.08 ug/L	99
14] 1,1,2-Trichloroethane	11.222	97	1204	48.03 ug/L	96
15] Tetrachloroethene	11.432	166	1618	48.60 ug/L	100
16] Chlorobenzene	12.765	112	4286	52.03 ug/L	82
17] 1,1,1,2-Tetrachloroethane	12.916	131	1446	48.99 ug/L	95
18] Ethylbenzene	12.972	91	7409	52.91 ug/L	96
19] m&p-Xylene	13.162	91	11595	105.95 ug/L	95
20] o-Xylene	13.782	91	6108	52.24 ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.877	83	2630	50.75 ug/L	99
22] 1,3,5-Trimethylbenzene	15.345	105	6559	52.70 ug/L	95
23] 1,2,4-Trimethylbenzene	15.901	105	6921	53.54 ug/L	93
24] Naphthalene	17.902	128	10366	50.74 ug/L	97
25) 2-Fluorotoluene SCAN	10.969	109	236195	5256.53 ug/L	97
27) trans-1,2-Dichloroethe...	4.394	61	756	64.02 ug/L #	71
29) cis-1,2-Dichloroethene...	6.093	61	638	43.57 ug/L #	1
30) Chloroform SCAN	6.650	83	908	57.18 ug/L #	62
31) 1,1,1-Trichloroethane ...	6.906	97	426	29.44 ug/L #	11
32) Carbon tetrachloride SCAN	7.185	117	425	28.15 ug/L	75
33) Benzene SCAN	7.514	78	7688	192.94 ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	1135	77.14 ug/L #	8
35) Trichloroethene SCAN	8.579	130	829	75.71 ug/L #	38
36) Toluene-d8 SCAN	10.475	98	3579	81.45 ug/L	70
37) Toluene SCAN	10.580	91	4468	79.39 ug/L #	76
38) 1,1,2-Trichloroethane ...	11.252	97	984	77.90 ug/L #	13
39) Tetrachloroethene SCAN	11.409	166	301	22.26 ug/L #	1
40) Chlorobenzene SCAN	12.764	112	1853	48.19 ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.931	131	351	24.66 ug/L #	58
42) Ethylbenzene SCAN	13.161	91	7190	70.13 ug/L	90
43) m&p-Xylene SCAN	13.161	91	7190	70.13 ug/L	86
44) o-Xylene SCAN	13.797	91	4107	74.84 ug/L #	36
45) 1,1,2,2-Tetrachloroeth...	14.879	83	791	29.56 ug/L #	20
46) 1,3,5-Trimethylbenzene...	15.343	105	3622	62.62 ug/L	88
47) 1,2,4-Trimethylbenzene...	15.904	105	4183	70.68 ug/L	86
48) Naphthalene SCAN	17.897	128	5271	58.86 ug/L	95

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132004.D
Acq On : 13 Nov 2020 11:56
InstName : AG5975C
Operator : TD
Sample : S20K055-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 16 08:18:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



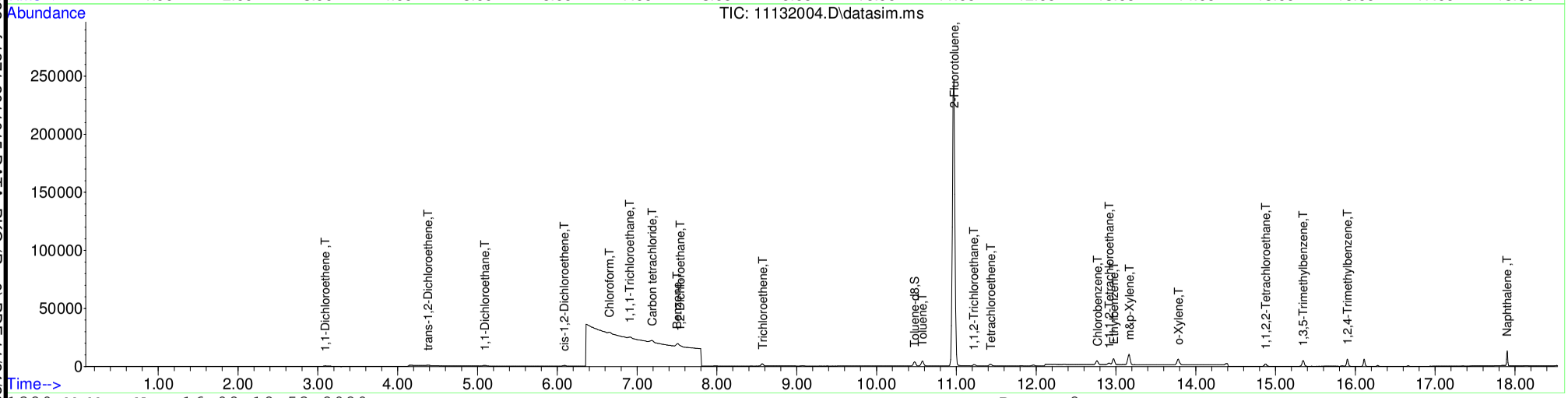
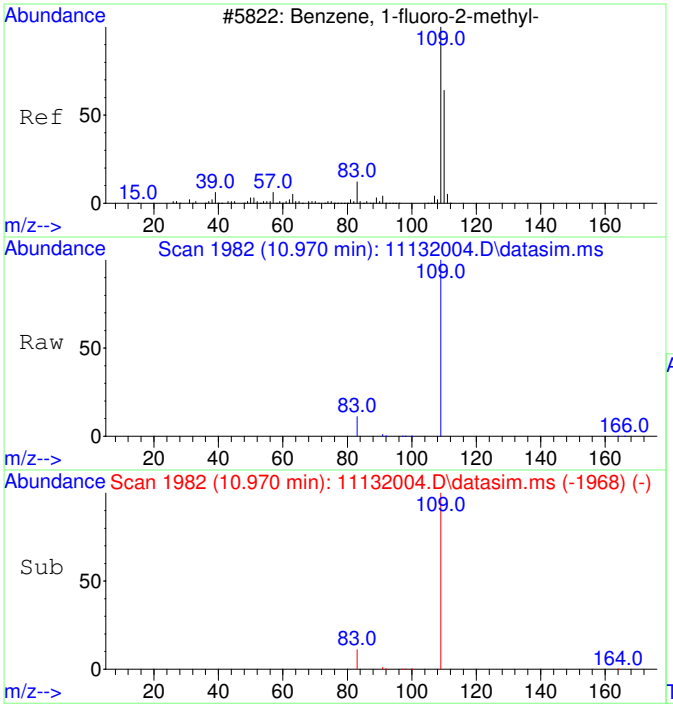


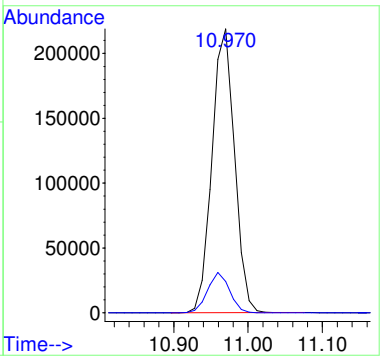
Table of Contents

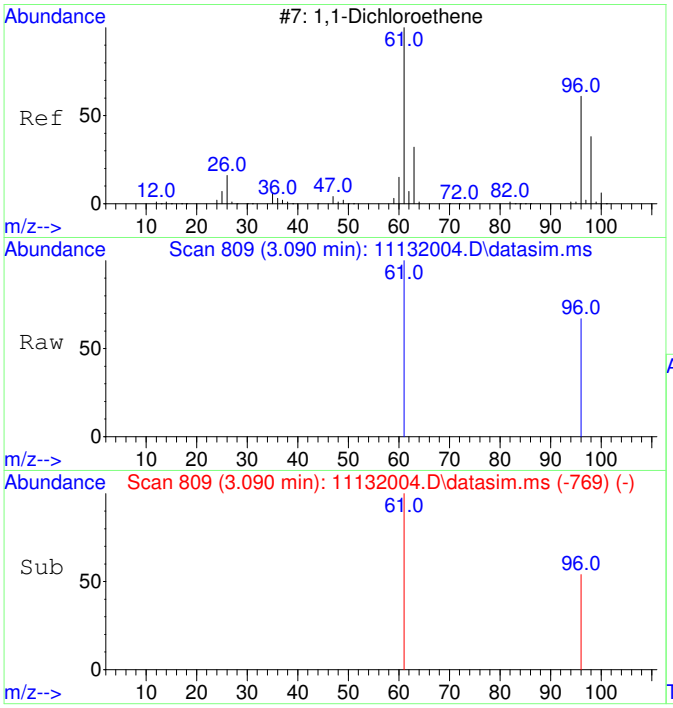


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:109 Resp: 460945

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

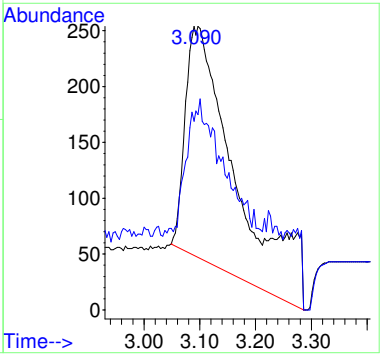




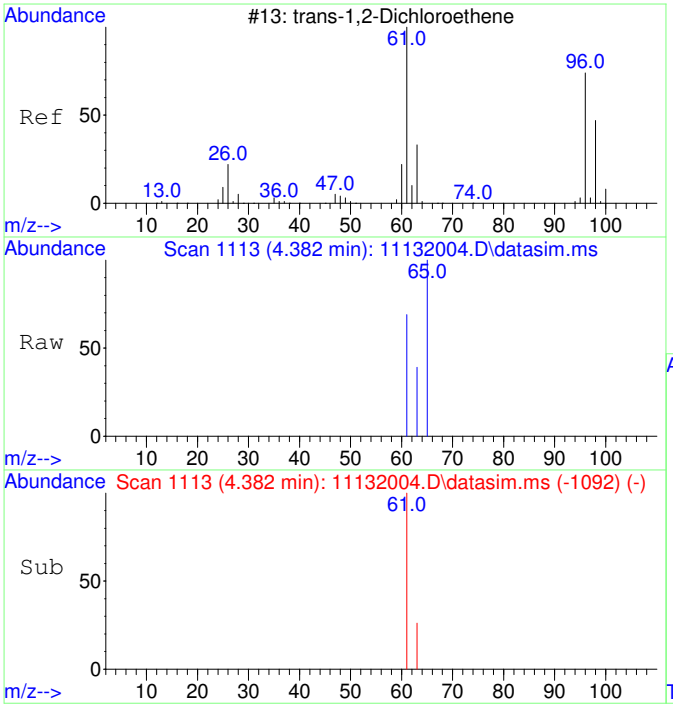
#2
1,1-Dichloroethene
Concen: 70.85 ug/L
RT: 3.090 min Scan# 809
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 1304

Ion	Ratio	Lower	Upper
61	100		
96	60.0	37.2	97.2



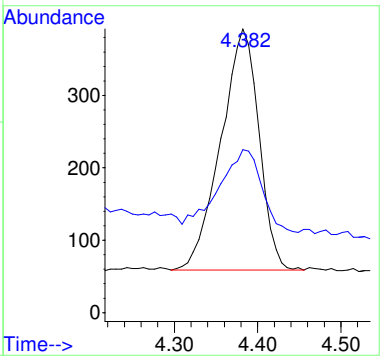
Before MI:
IMPROPER
BASELINE

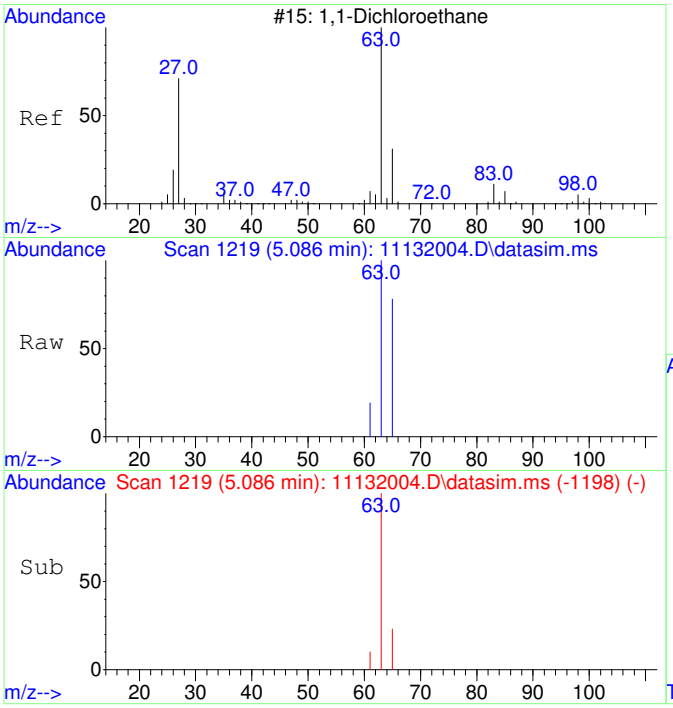


#3
trans-1,2-Dichloroethene
Concen: 49.84 ug/L
RT: 4.382 min Scan# 1113
Delta R.T. -0.013 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 1060

Ion	Ratio	Lower	Upper
61	100		
63	39.9	2.4	62.4

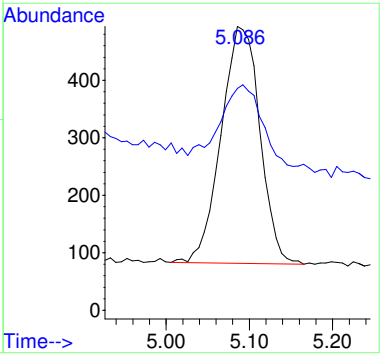


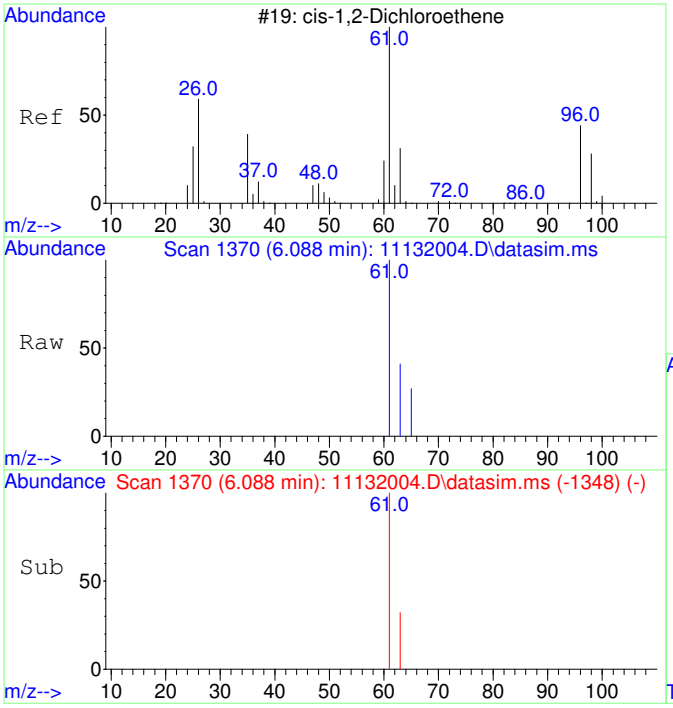


#4
1,1-Dichloroethane
Concen: 50.39 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. -0.013 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 63 Resp: 1334

Ion	Ratio	Lower	Upper
63	100		
65	51.6	1.8	61.8

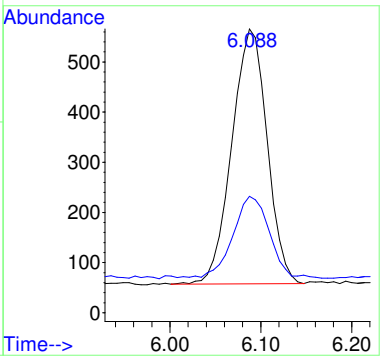


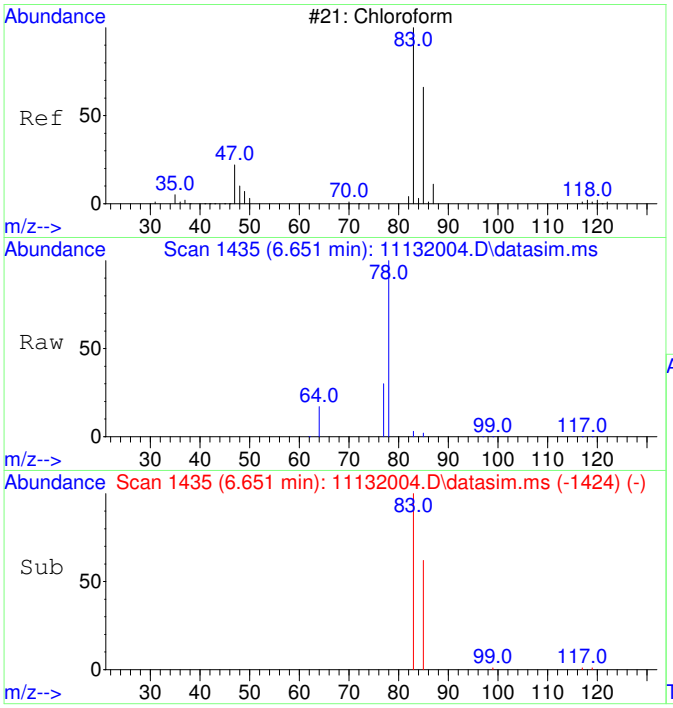


#5
cis-1,2-Dichloroethene
Concen: 49.14 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 1373

Ion	Ratio	Lower	Upper
61	100		
63	32.8	2.5	62.5

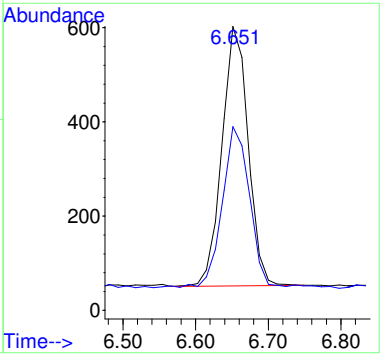


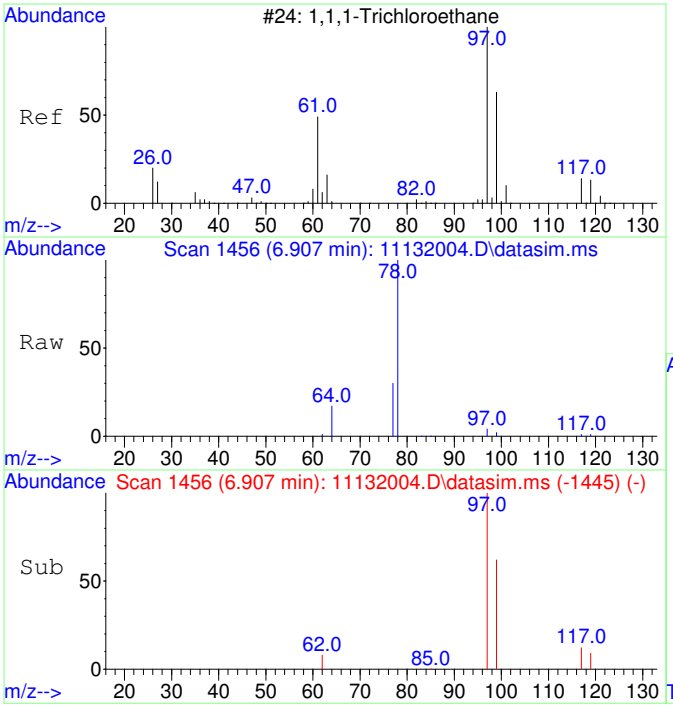


#6
Chloroform
Concen: 48.22 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 1379

Ion	Ratio	Lower	Upper
83	100		
85	63.6	35.1	95.1

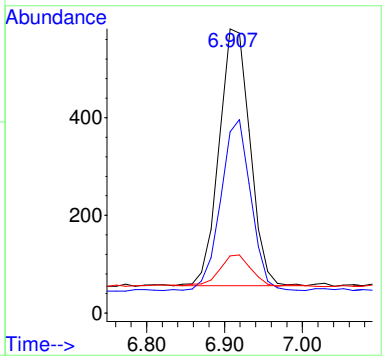


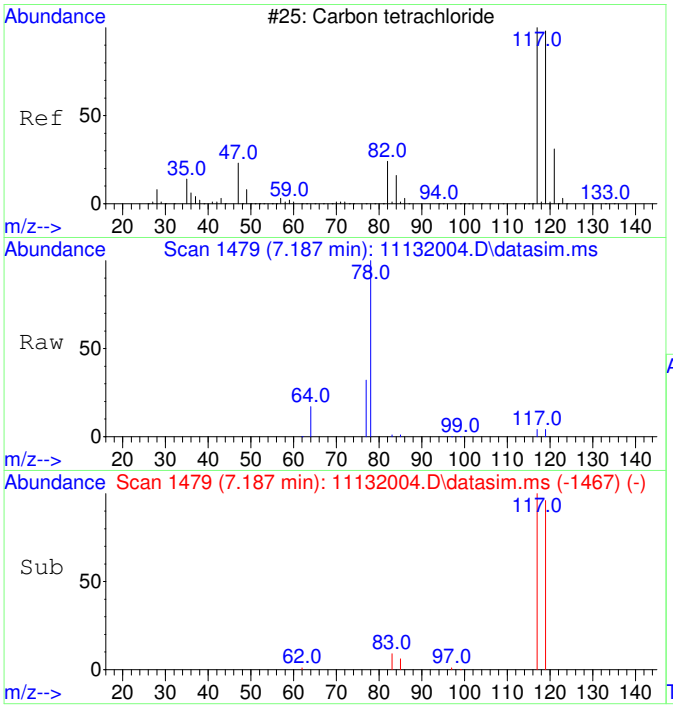


#7
1,1,1-Trichloroethane
Concen: 46.65 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 1449

Ion	Ratio	Lower	Upper
97	100		
99	65.0	34.6	94.6
117	12.8	0.0	43.2

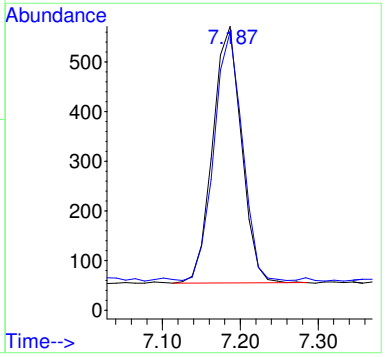


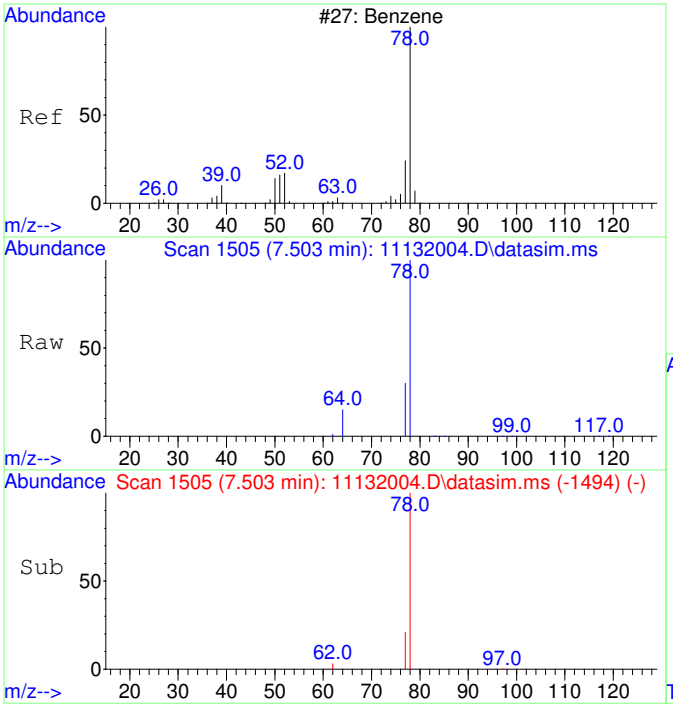


#8
Carbon tetrachloride
Concen: 45.36 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:117 Resp: 1326

Ion	Ratio	Lower	Upper
117	100		
119	95.2	66.4	126.4

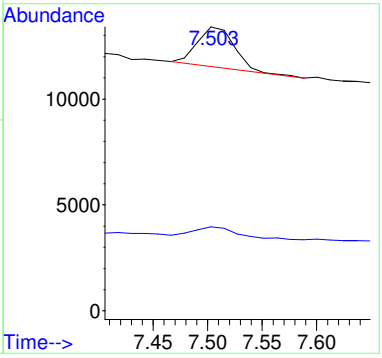


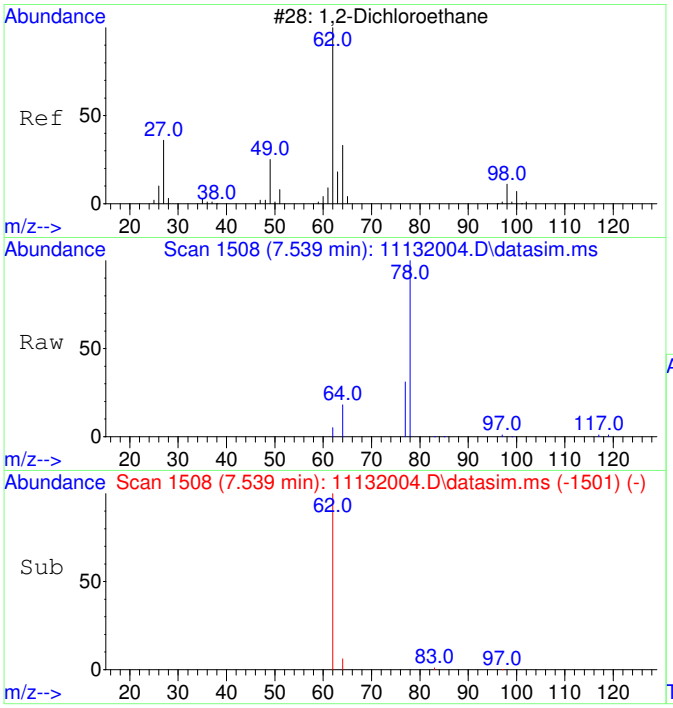


#9
Benzene
Concen: 53.86 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 78 Resp: 4218

Ion	Ratio	Lower	Upper
78	100		
77	47.2	0.0	53.2

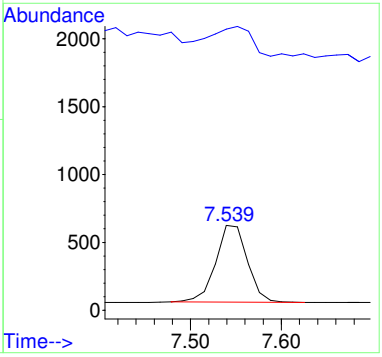


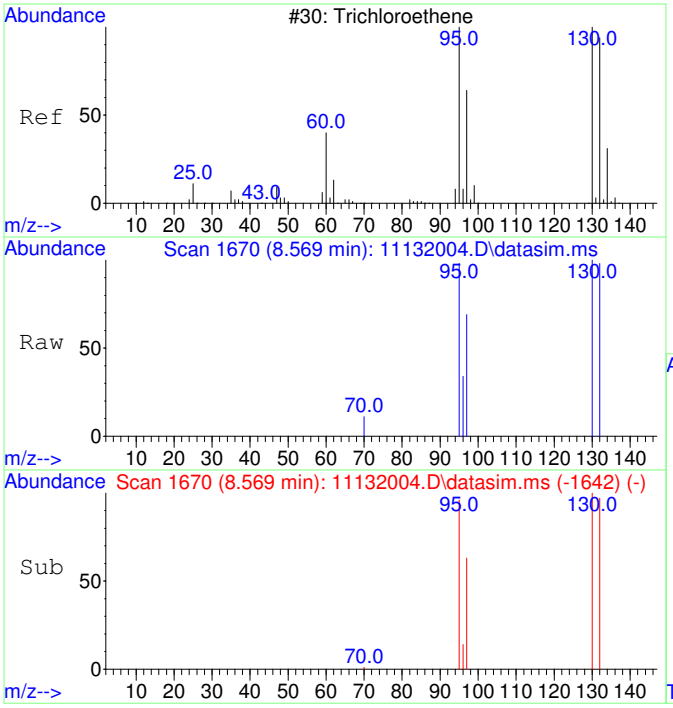


#10
1,2-Dichloroethane
Concen: 48.86 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 62 Resp: 1366

Ion	Ratio	Lower	Upper
62	100		
64	49.6	2.3	62.3

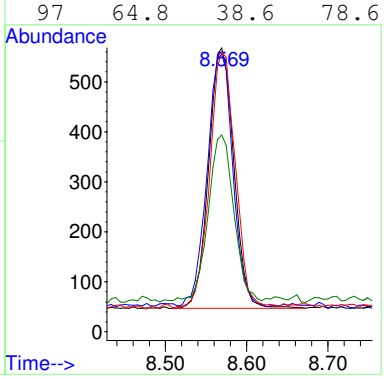


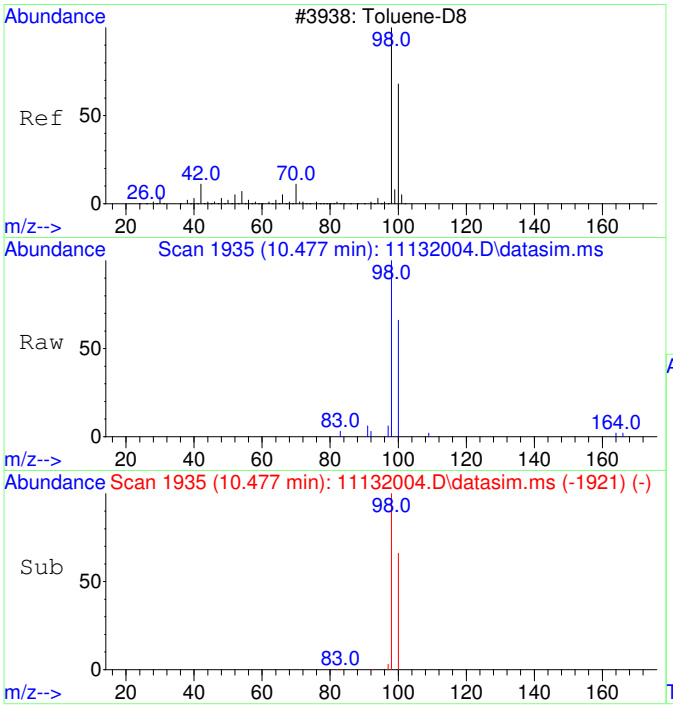


#11
Trichloroethene
Concen: 47.79 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:130 Resp: 1127

Ion	Ratio	Lower	Upper
130	100		
95	97.9	60.7	120.7
132	98.8	76.0	116.0
97	64.8	38.6	78.6

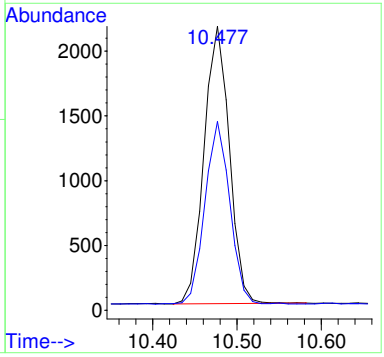


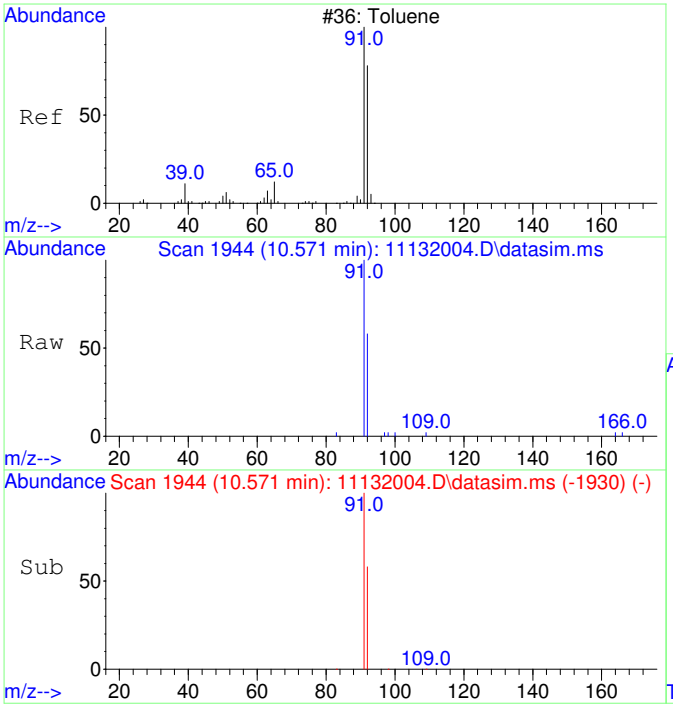


#12
Toluene-d8
Concen: 49.50 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 98 Resp: 4467

Ion	Ratio	Lower	Upper
98	100		
100	64.3	37.1	97.1

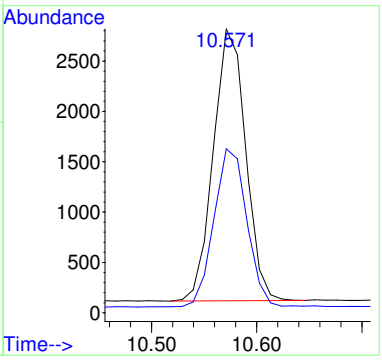


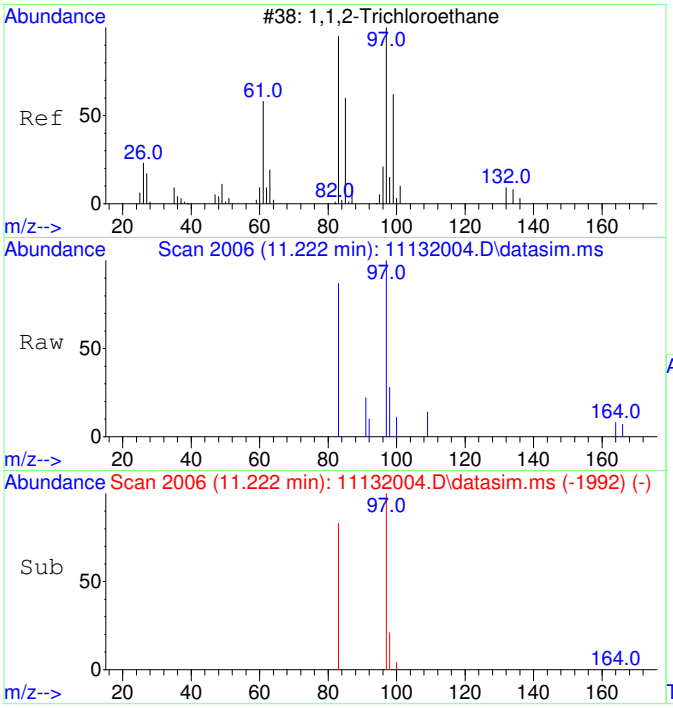


#13
Toluene
Concen: 50.08 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 5761

Ion	Ratio	Lower	Upper
91	100		
92	59.3	29.9	89.9

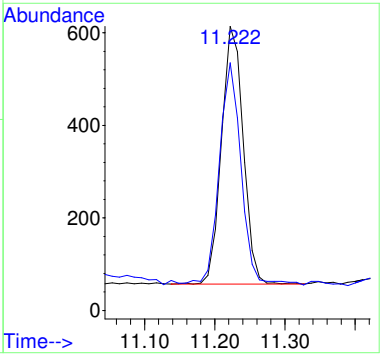


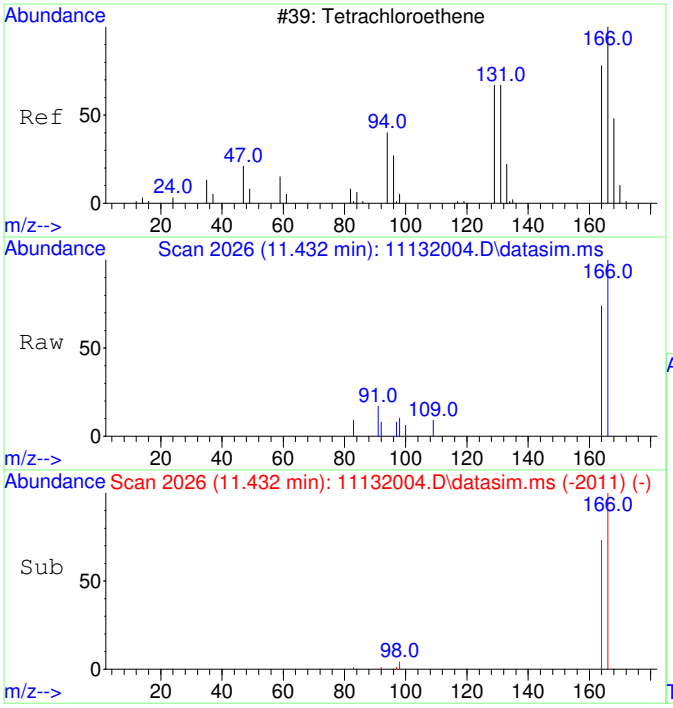


#14
1,1,2-Trichloroethane
Concen: 48.03 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 1204

Ion	Ratio	Lower	Upper
97	100		
83	84.9	51.2	111.2

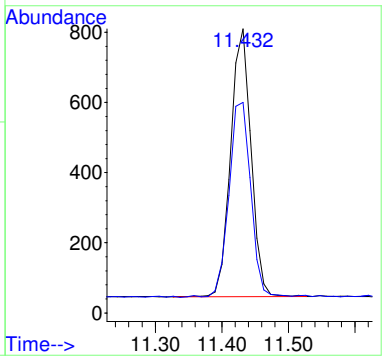


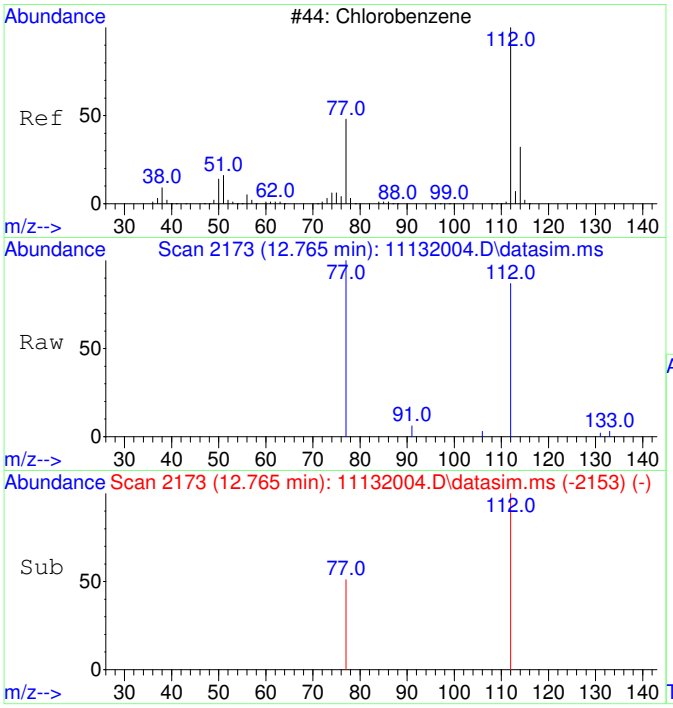


#15
Tetrachloroethene
Concen: 48.60 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:166 Resp: 1618

Ion	Ratio	Lower	Upper
166	100		
164	77.4	47.8	107.8

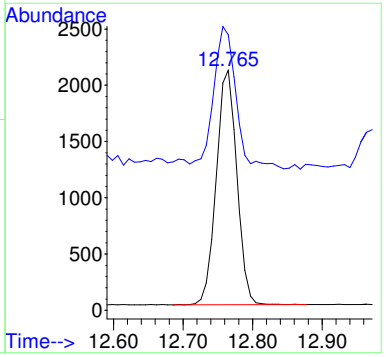


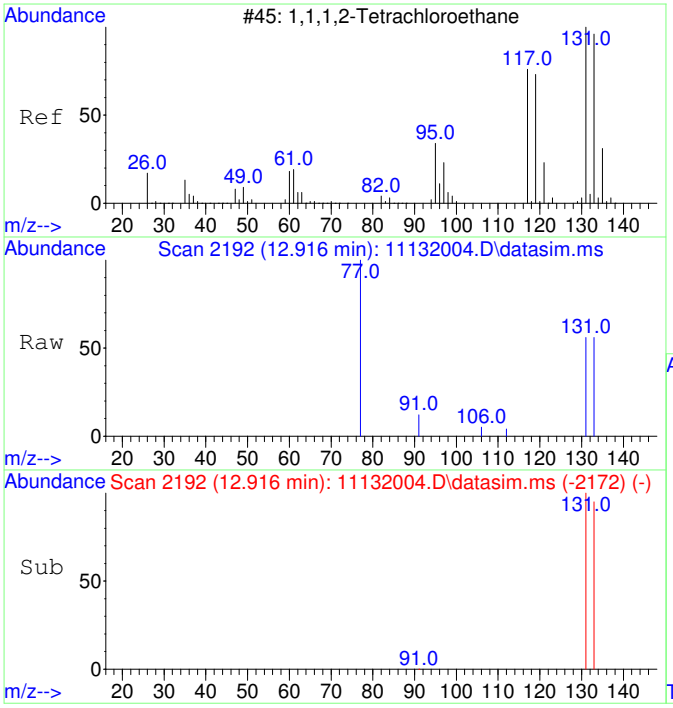


#16
Chlorobenzene
Concen: 52.03 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:112 Resp: 4286

Ion	Ratio	Lower	Upper
112	100		
77	66.3	23.6	83.6

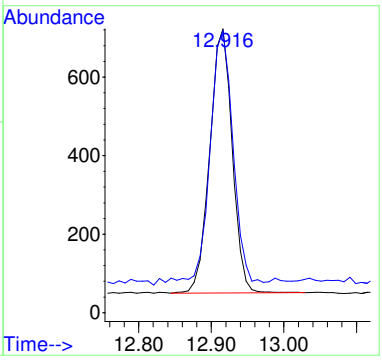


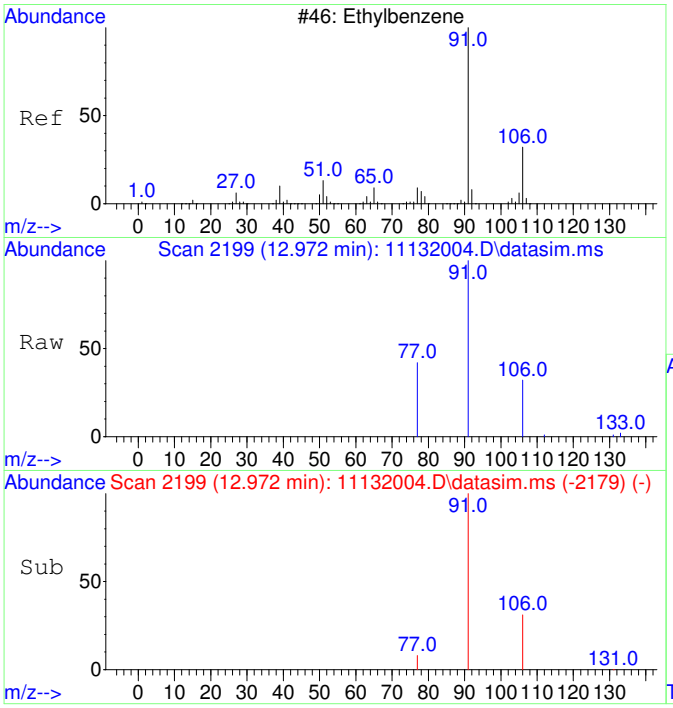


#17
1,1,1,2-Tetrachloroethane
Concen: 48.99 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:131 Resp: 1446

Ion	Ratio	Lower	Upper
131	100		
133	100.8	66.3	126.3

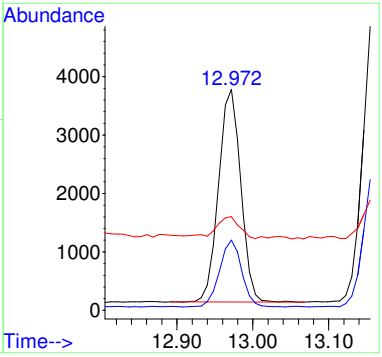


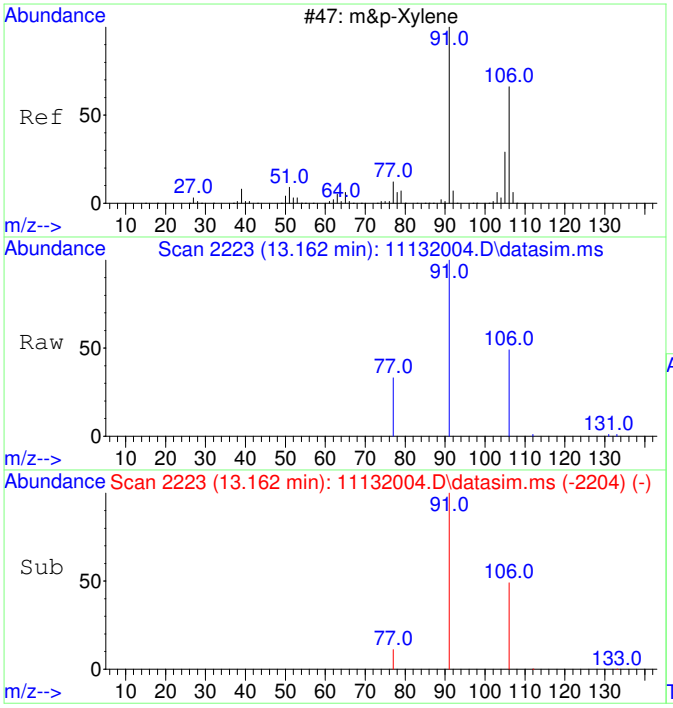


#18
Ethylbenzene
Concen: 52.91 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 7409

Ion	Ratio	Lower	Upper
91	100		
106	31.2	3.0	63.0
77	11.3	0.0	38.2

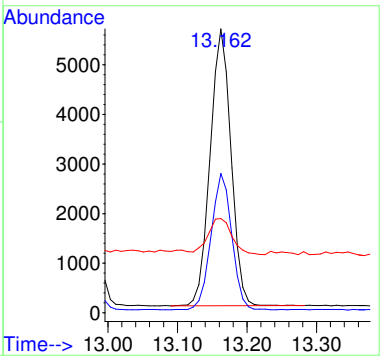


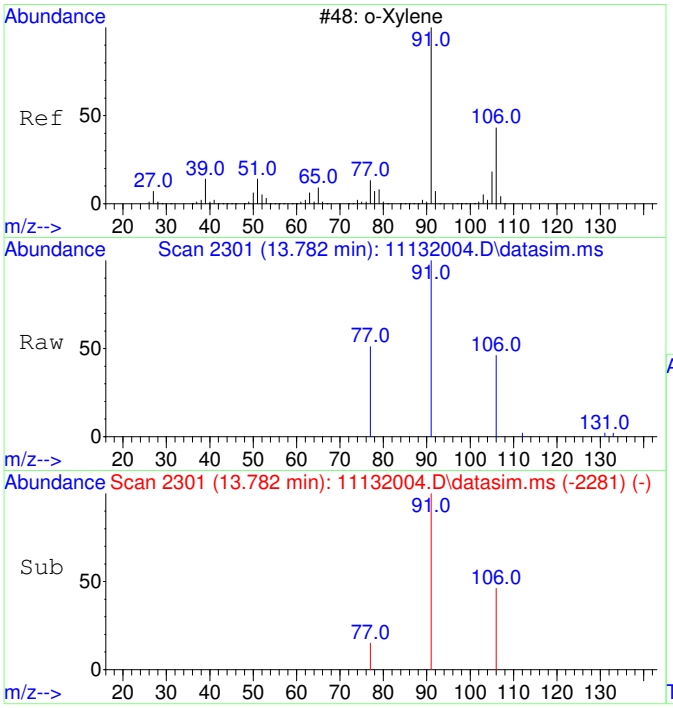


#19
m&p-Xylene
Concen: 105.95 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 11595

Ion	Ratio	Lower	Upper
91	100		
106	49.0	22.2	82.2
77	14.9	0.0	42.4

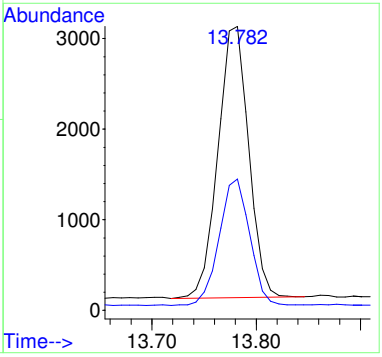


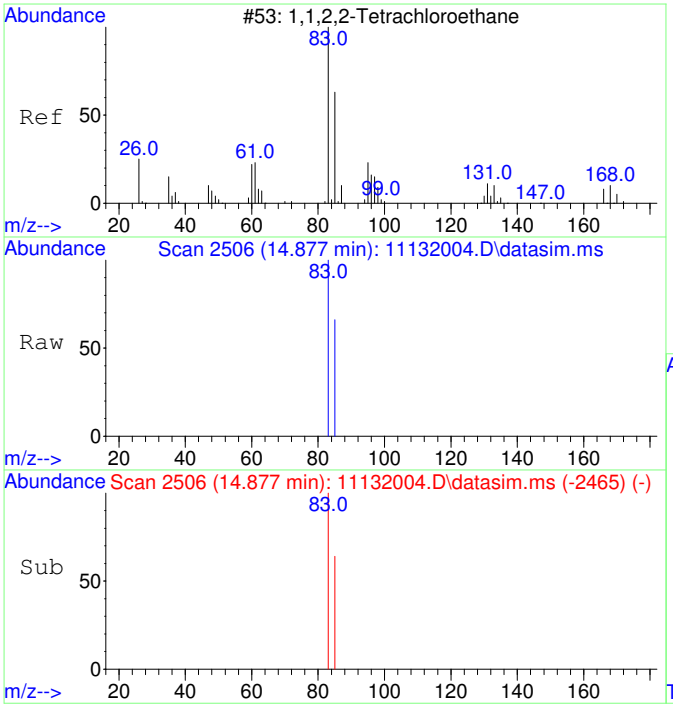


#20
o-Xylene
Concen: 52.24 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 6108

Ion	Ratio	Lower	Upper
91	100		
106	46.2	19.2	79.2

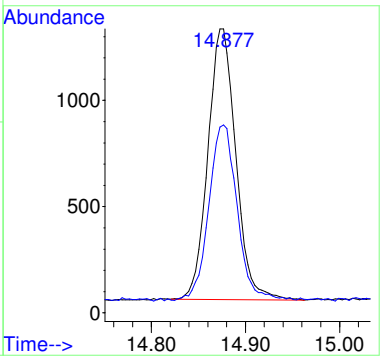


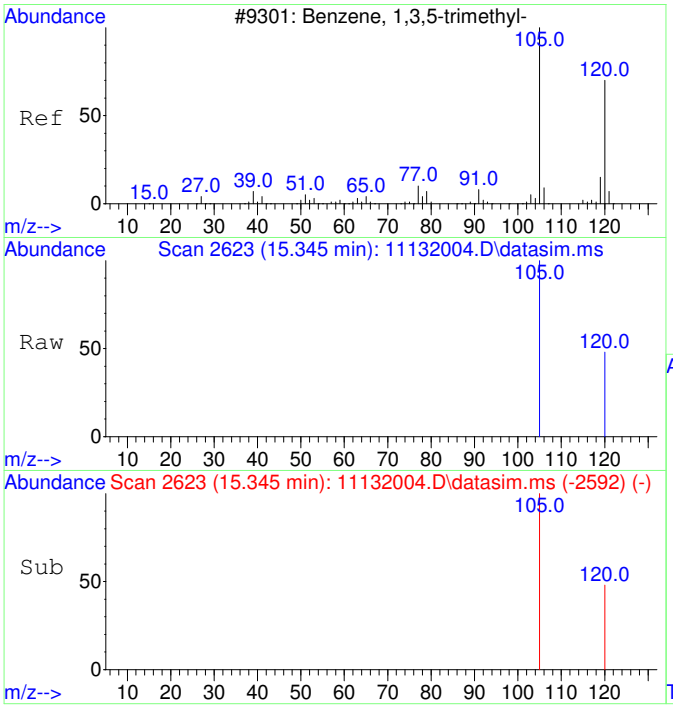


#21
1,1,2,2-Tetrachloroethane
Concen: 50.75 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. 0.004 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 2630

Ion	Ratio	Lower	Upper
83	100		
85	65.2	34.8	94.8

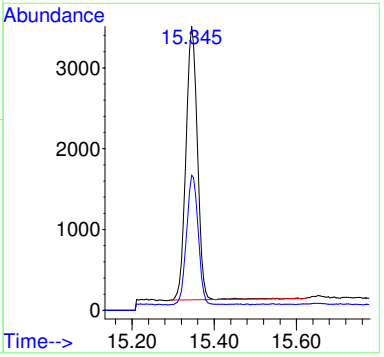


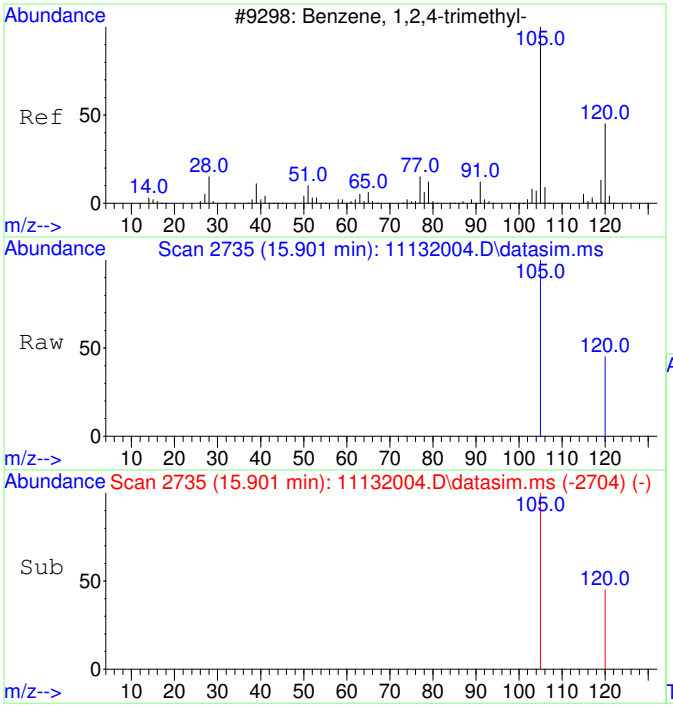


#22
1,3,5-Trimethylbenzene
Concen: 52.70 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 6559

Ion	Ratio	Lower	Upper
105	100		
120	47.6	21.1	81.1

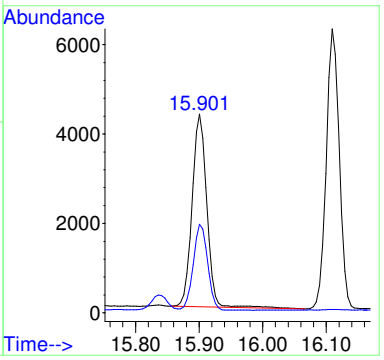


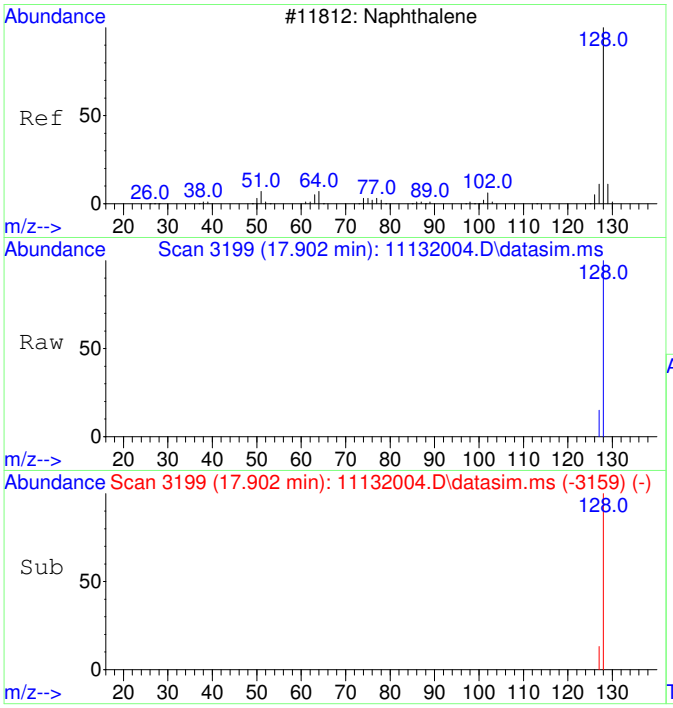


#23
1,2,4-Trimethylbenzene
Concen: 53.54 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 6921

Ion	Ratio	Lower	Upper
105	100		
120	42.3	17.2	77.2

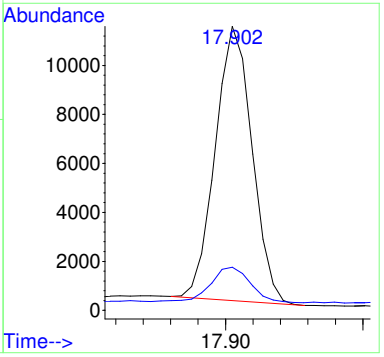


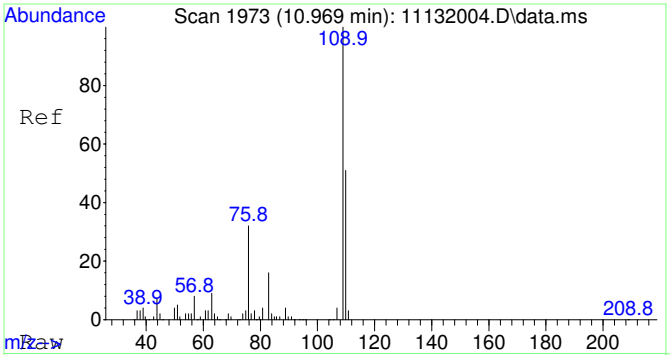


#24
Naphthalene
Concen: 50.74 ug/L
RT: 17.902 min Scan# 3199
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:128 Resp: 10366

Ion	Ratio	Lower	Upper
128	100		
127	13.7	0.0	42.5

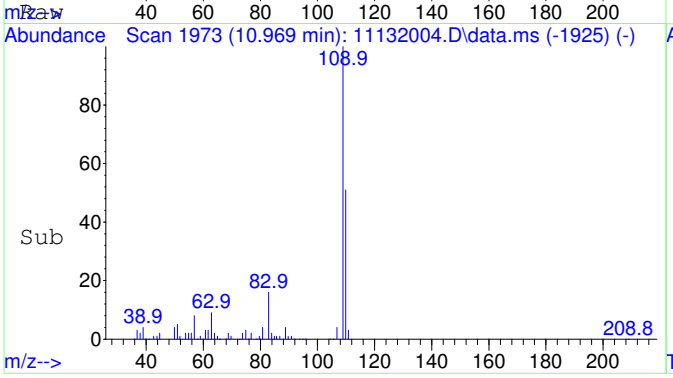


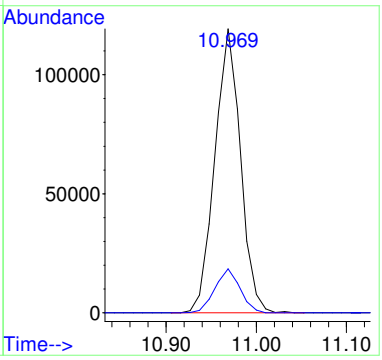


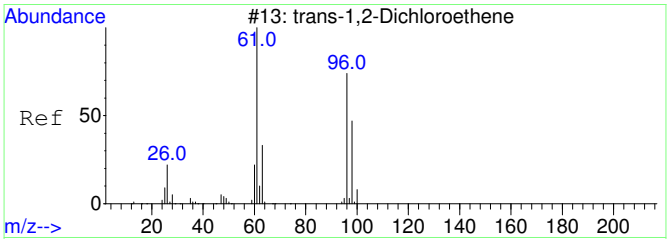
#25
2-Fluorotoluene SCAN
Concen: 5256.53 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:109 Resp: 236195

Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	43.8



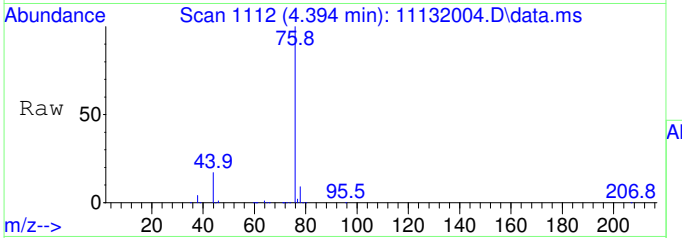


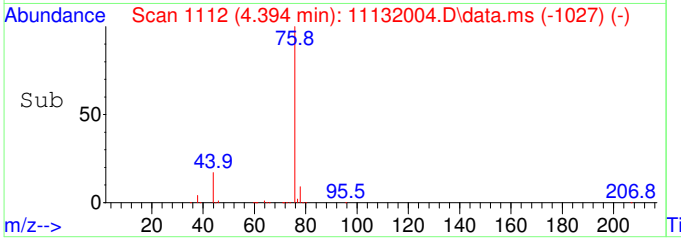


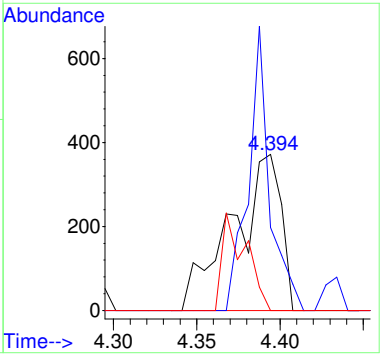
#27
trans-1,2-Dichloroethene SCAN
Concen: 64.02 ug/L
RT: 4.394 min Scan# 1112
Delta R.T. -0.007 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

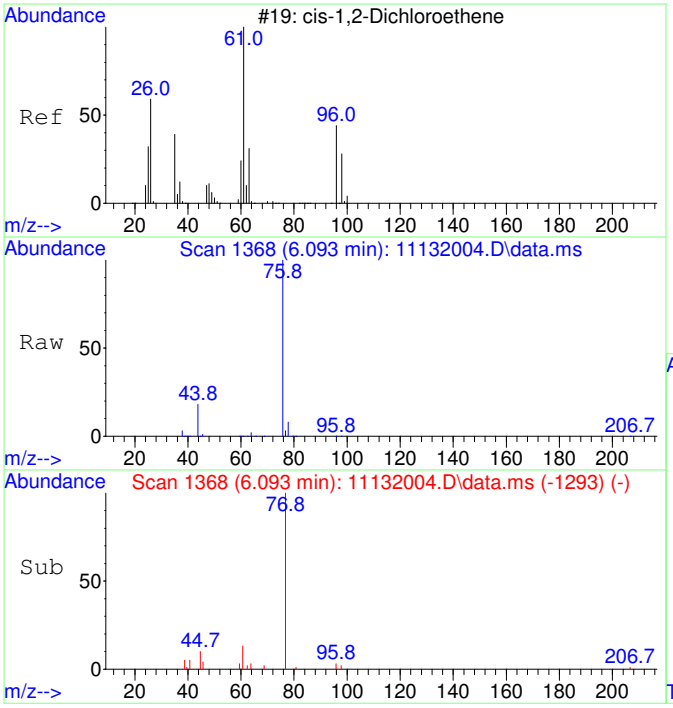
Tgt Ion: 61 Resp: 756

Ion	Ratio	Lower	Upper
61	100		
96	79.4	49.0	109.0
98	0.0	20.5	80.5#





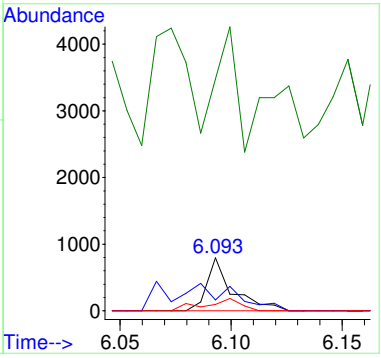


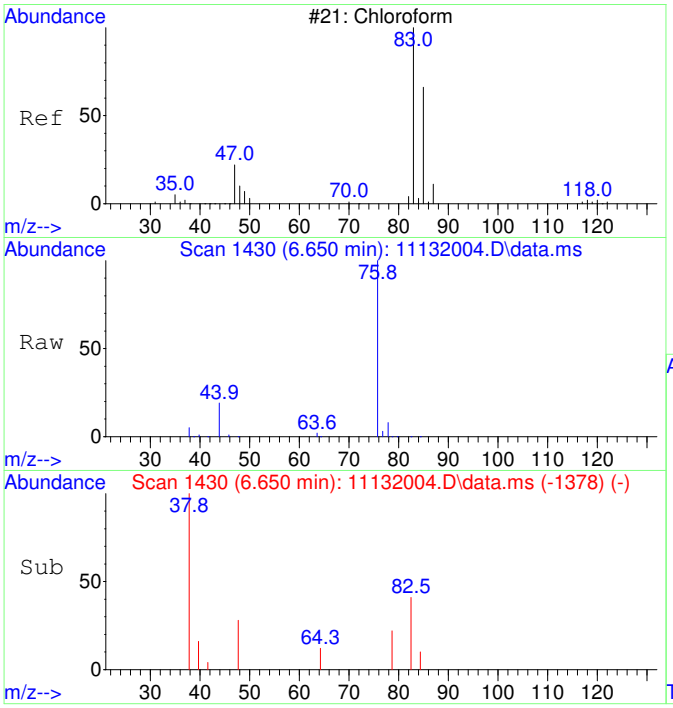


#29
cis-1,2-Dichloroethene SCAN
Concen: 43.57 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 638

Ion	Ratio	Lower	Upper
61	100		
96	9.4	39.9	99.9#
98	32.9	13.5	73.5
64	214.6	4.5	64.5#

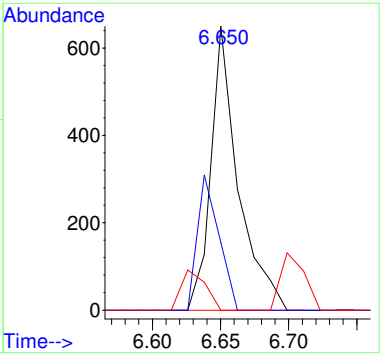


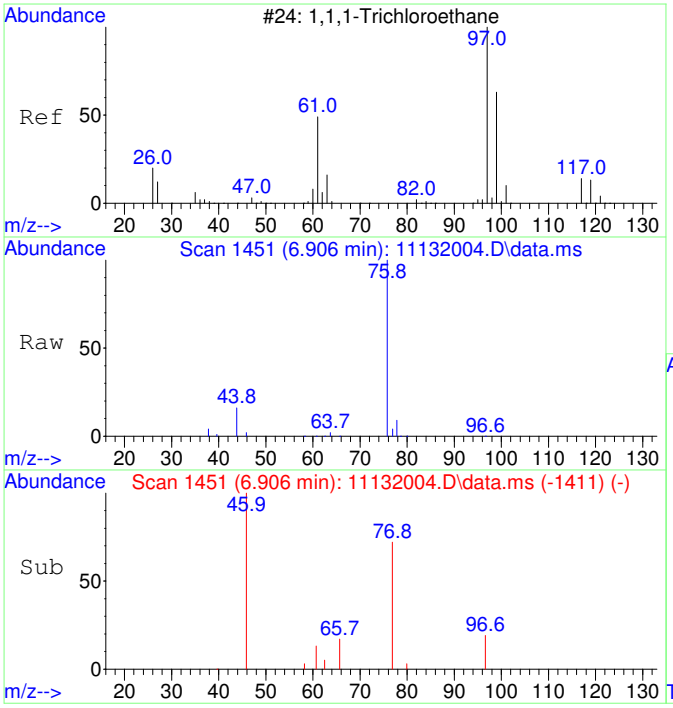


#30
Chloroform SCAN
Concen: 57.18 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 908

Ion	Ratio	Lower	Upper
83	100		
85	37.3	34.6	94.6
47	0.0	0.0	53.4

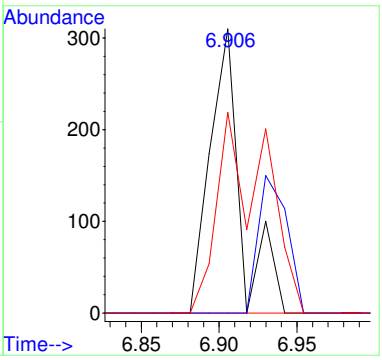


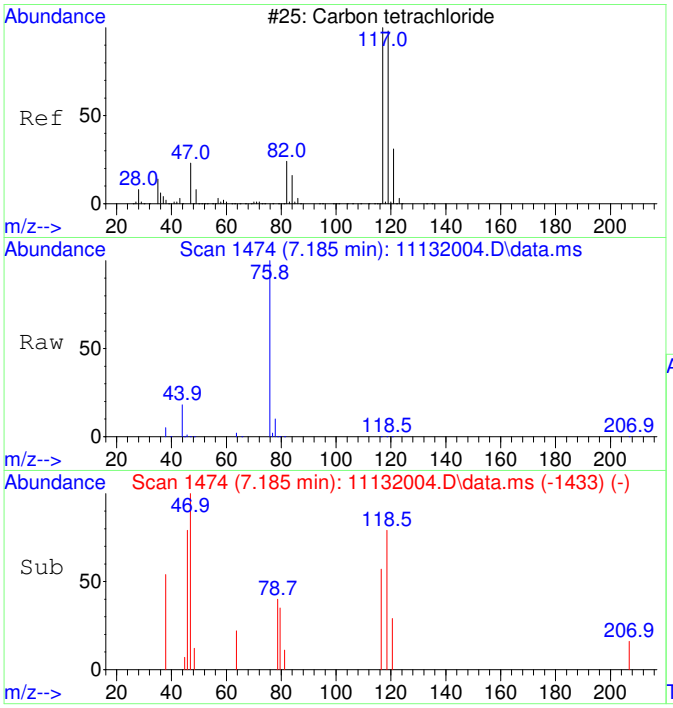


#31
1,1,1-Trichloroethane SCAN
Concen: 29.44 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 426

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	109.2	18.0	78.0#

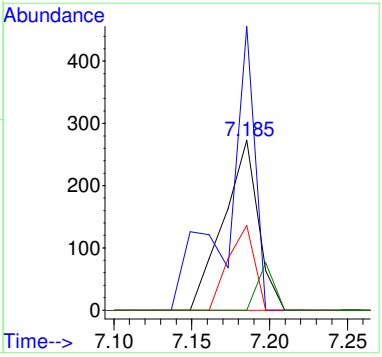


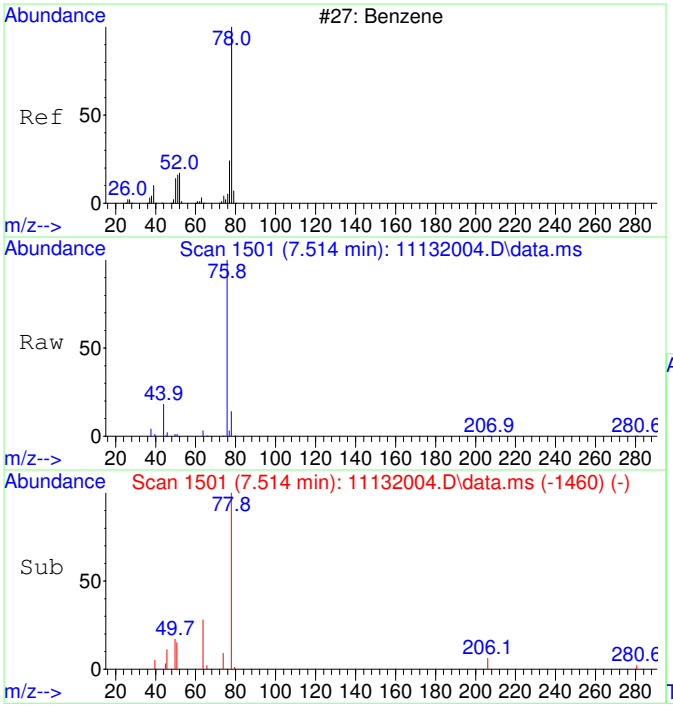


#32
Carbon tetrachloride SCAN
Concen: 28.15 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:117 Resp: 425

Ion	Ratio	Lower	Upper
117	100		
119	132.5	75.5	135.5
121	37.6	0.0	58.8
82	12.9	0.0	59.2

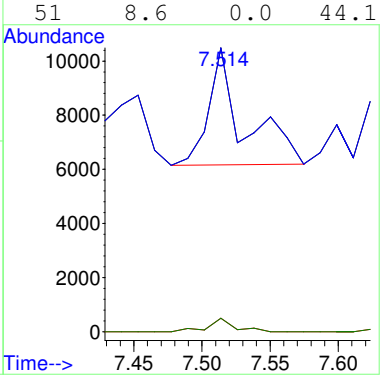


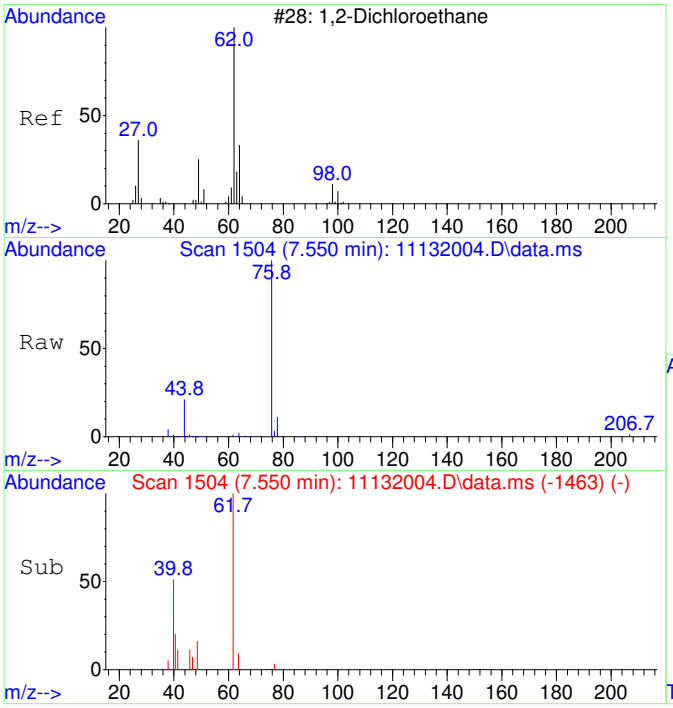


#33
Benzene SCAN
Concen: 192.94 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 78 Resp: 7688

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.6	0.0	47.9
51	8.6	0.0	44.1

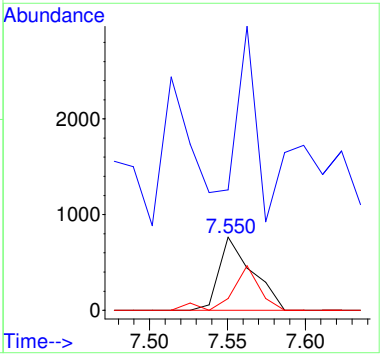


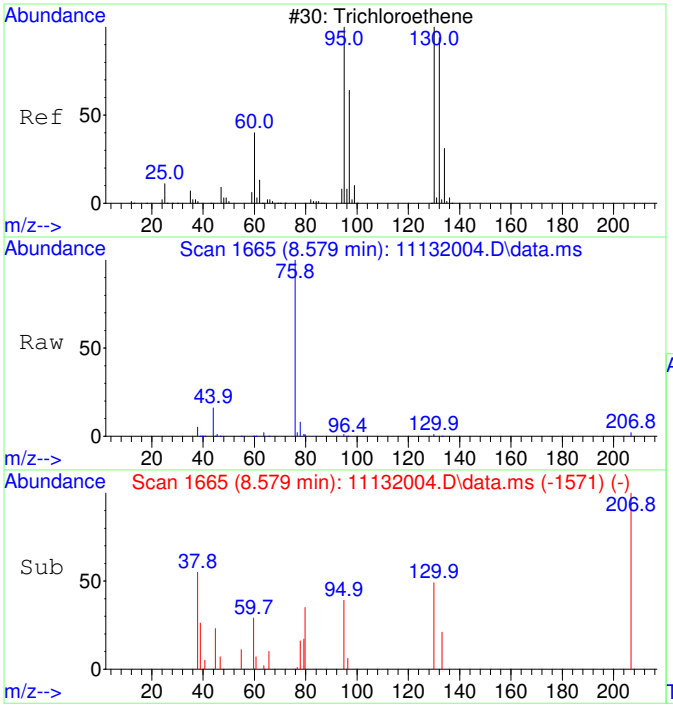


#34
1,2-Dichloroethane SCAN
Concen: 77.14 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 62 Resp: 1135

Ion	Ratio	Lower	Upper
62	100		
64	123.5	5.2	65.2#
49	50.9	3.9	63.9

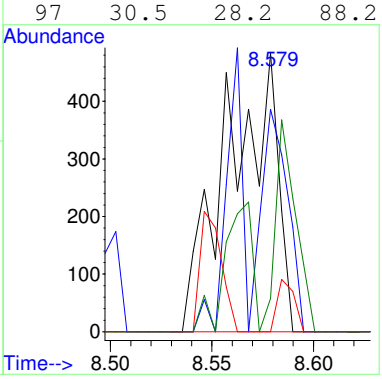


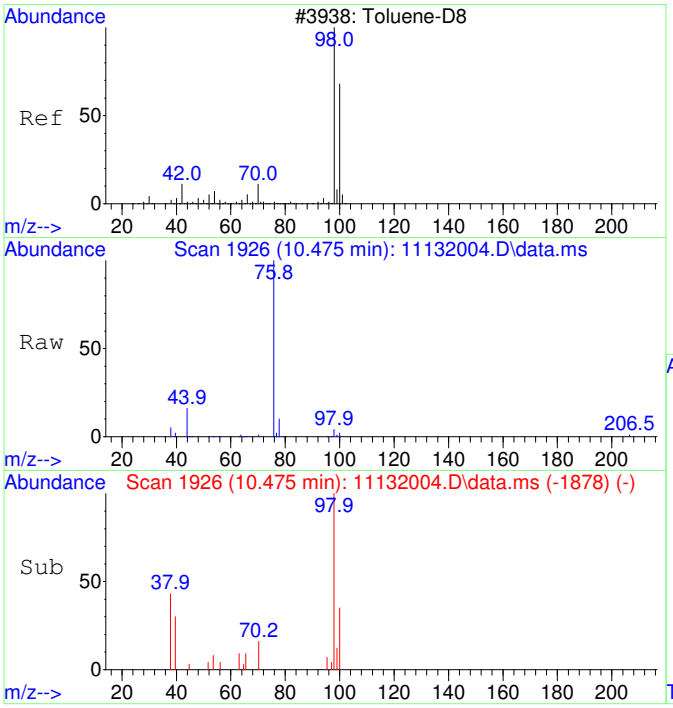


#35
Trichloroethene SCAN
Concen: 75.71 ug/L
RT: 8.579 min Scan# 1665
Delta R.T. 0.011 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:130 Resp: 829

Ion	Ratio	Lower	Upper
130	100		
95	42.1	60.5	120.5#
132	6.4	59.6	119.6#
97	30.5	28.2	88.2

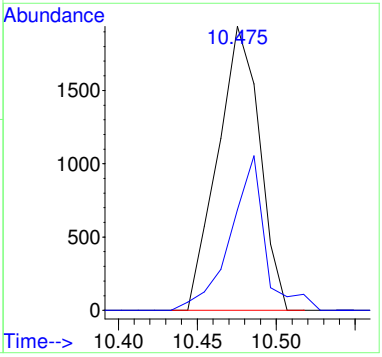


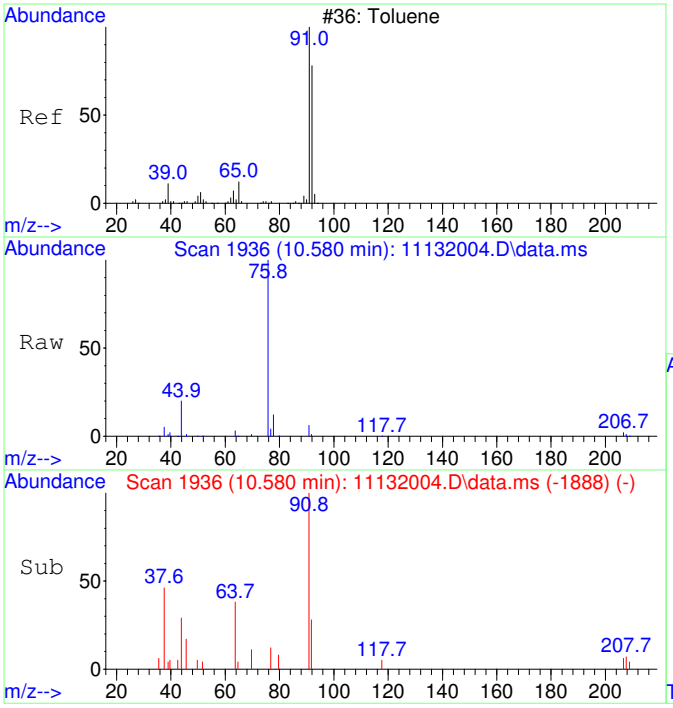


#36
Toluene-d8 SCAN
Concen: 81.45 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 98 Resp: 3579

Ion	Ratio	Lower	Upper
98	100		
100	45.0	40.0	100.0

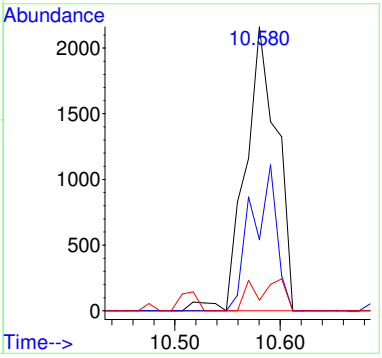


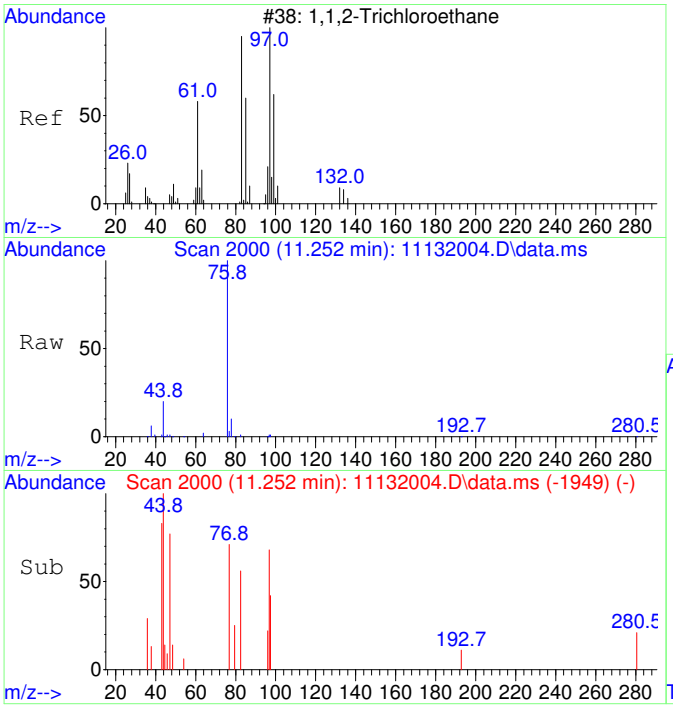


#37
Toluene SCAN
Concen: 79.39 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 4468

Ion	Ratio	Lower	Upper
91	100		
92	40.9	28.3	88.3
65	0.0	0.0	41.0

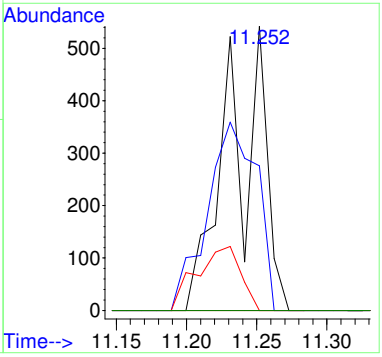


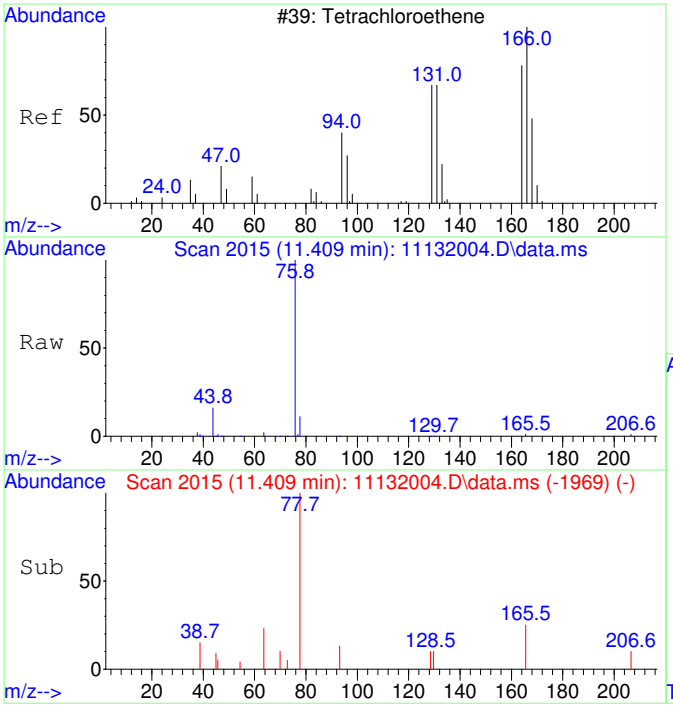


#38
1,1,2-Trichloroethane SCAN
Concen: 77.90 ug/L
RT: 11.252 min Scan# 2000
Delta R.T. 0.031 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 984

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#

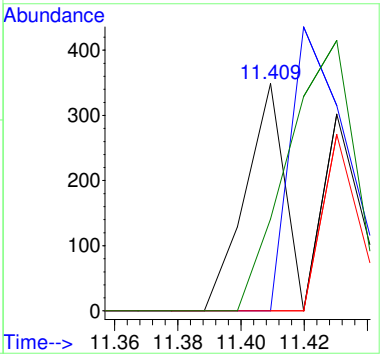


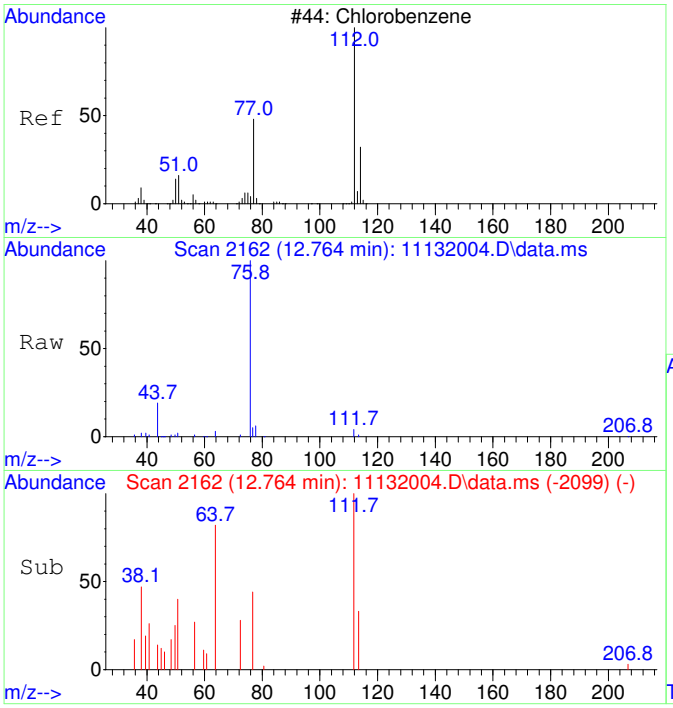


#39
Tetrachloroethene SCAN
Concen: 22.26 ug/L
RT: 11.409 min Scan# 2015
Delta R.T. -0.021 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:166 Resp: 301

Ion	Ratio	Lower	Upper
166	100		
164	199.0	50.9	110.9#
131	0.0	38.7	98.7#
129	0.0	41.8	101.8#

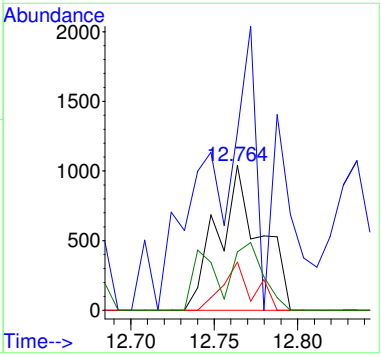


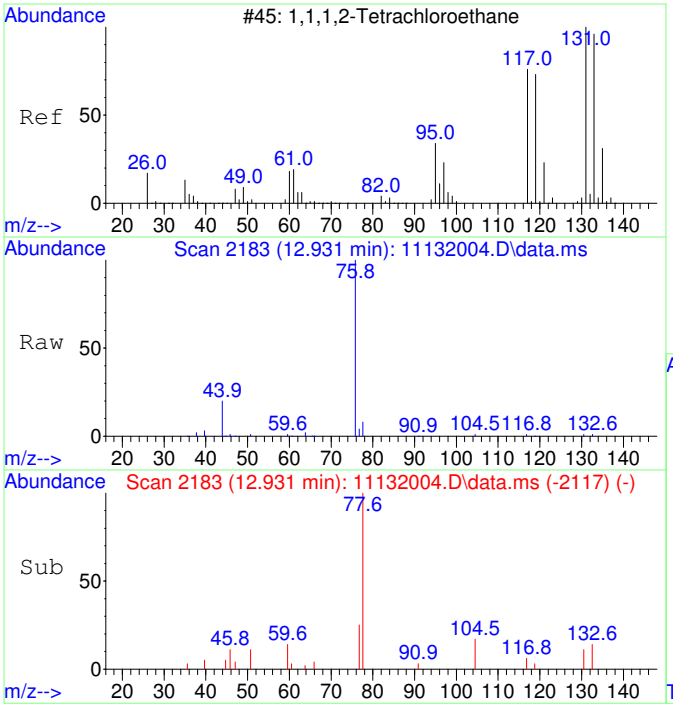


#40
Chlorobenzene SCAN
Concen: 48.19 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:112 Resp: 1853

Ion	Ratio	Lower	Upper
112	100		
77	201.7	28.2	88.2#
114	23.3	2.3	62.3
51	26.7	0.0	50.1

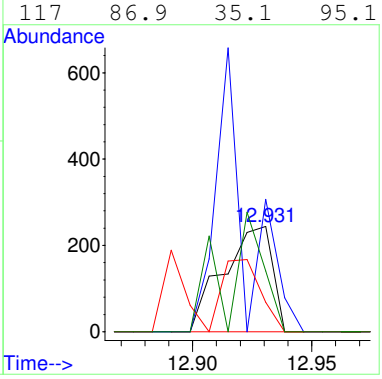


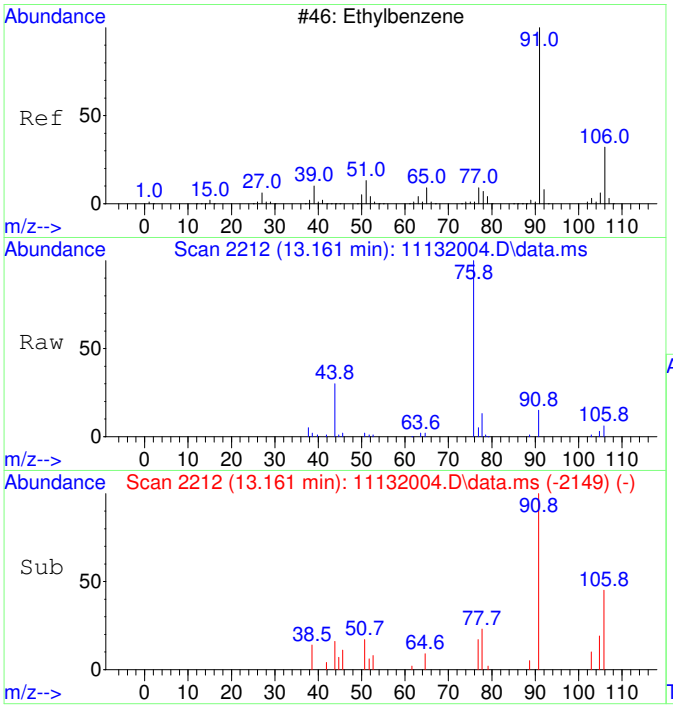


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 24.66 ug/L
RT: 12.931 min Scan# 2183
Delta R.T. 0.024 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:131 Resp: 351

Ion	Ratio	Lower	Upper
131	100		
133	164.7	66.9	126.9#
119	54.1	40.4	100.4
117	86.9	35.1	95.1

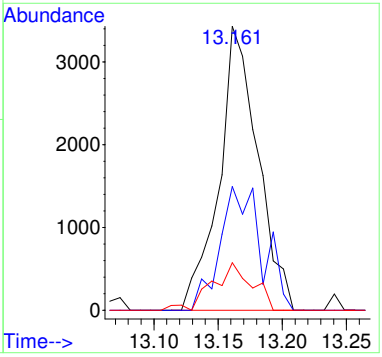


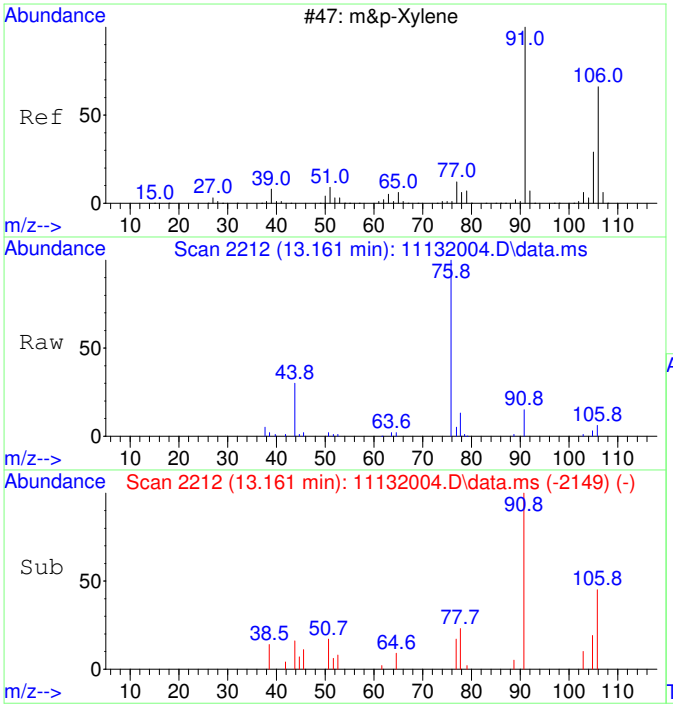


#42
Ethylbenzene SCAN
Concen: 70.13 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 7190

Ion	Ratio	Lower	Upper
91	100		
106	47.4	23.1	83.1
51	17.2	0.0	40.1

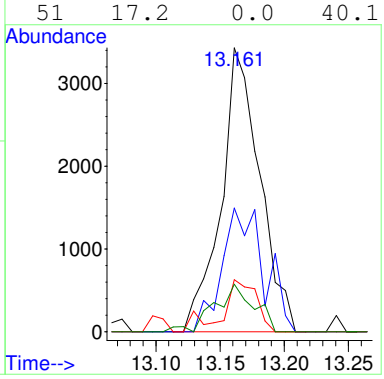


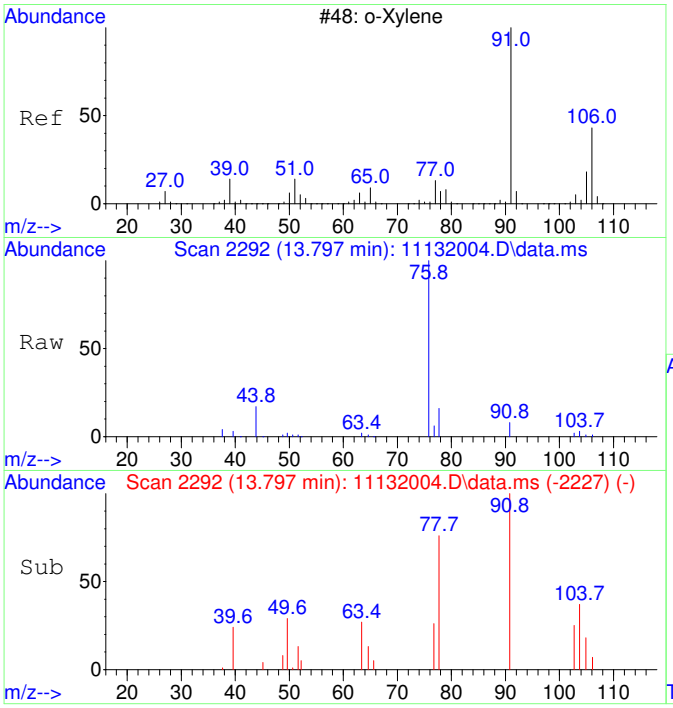


#43
m&p-Xylene SCAN
Concen: 70.13 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 7190

Ion	Ratio	Lower	Upper
91	100		
106	47.4	23.1	83.1
105	11.6	0.0	54.7
51	17.2	0.0	40.1

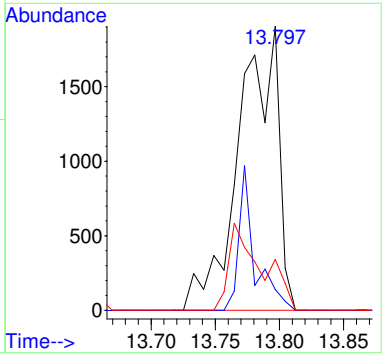


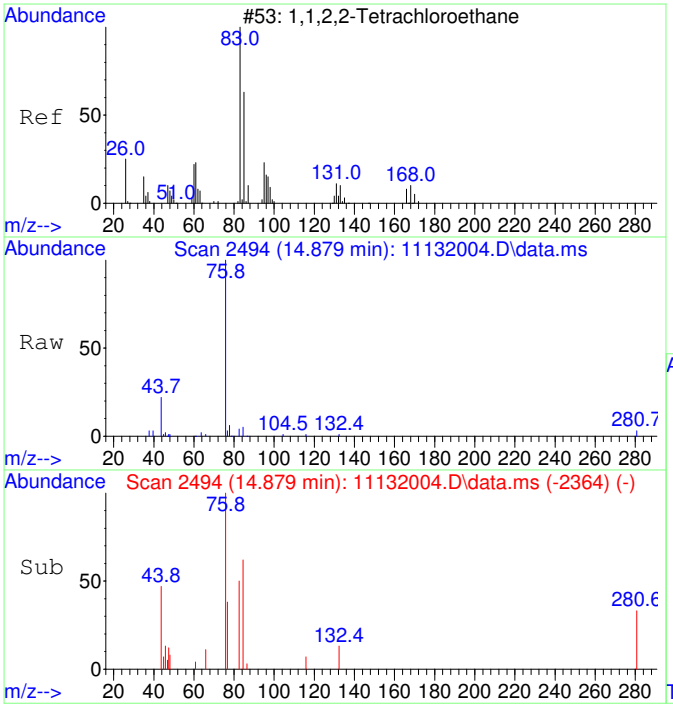


#44
o-Xylene SCAN
Concen: 74.84 ug/L
RT: 13.797 min Scan# 2292
Delta R.T. 0.016 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 4107

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

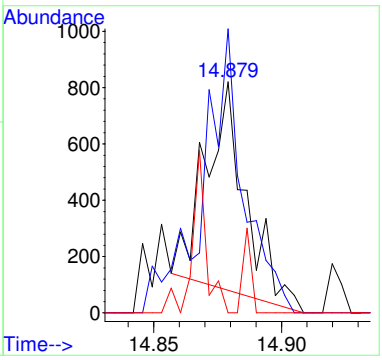


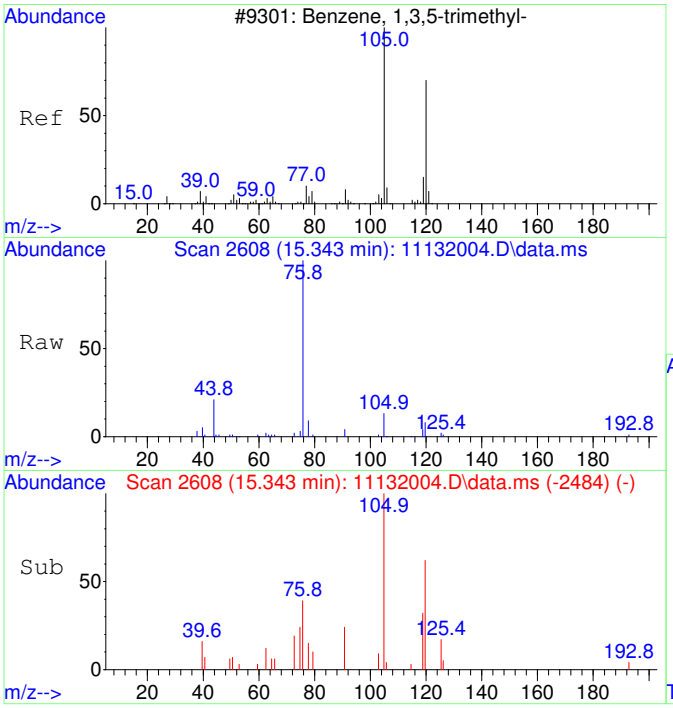


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 29.56 ug/L
RT: 14.879 min Scan# 2494
Delta R.T. 0.007 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 791

Ion	Ratio	Lower	Upper
83	100		
85	142.2	35.9	95.9#
95	8.5	0.0	47.4

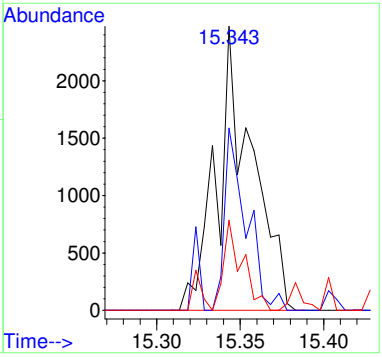


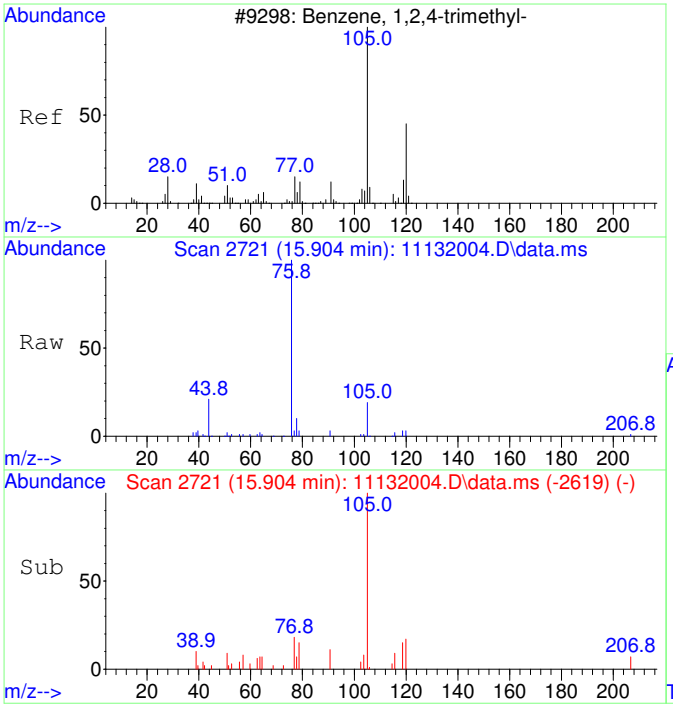


#46
1,3,5-Trimethylbenzene SCAN
Concen: 62.62 ug/L
RT: 15.343 min Scan# 2608
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 3622

Ion	Ratio	Lower	Upper
105	100		
120	39.8	18.3	78.3
119	17.0	0.0	43.1

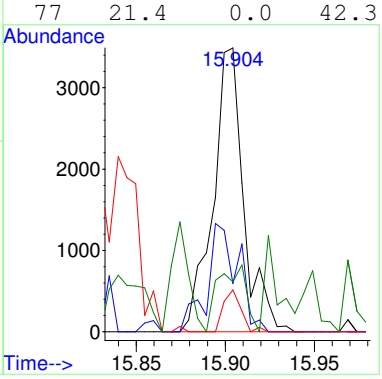


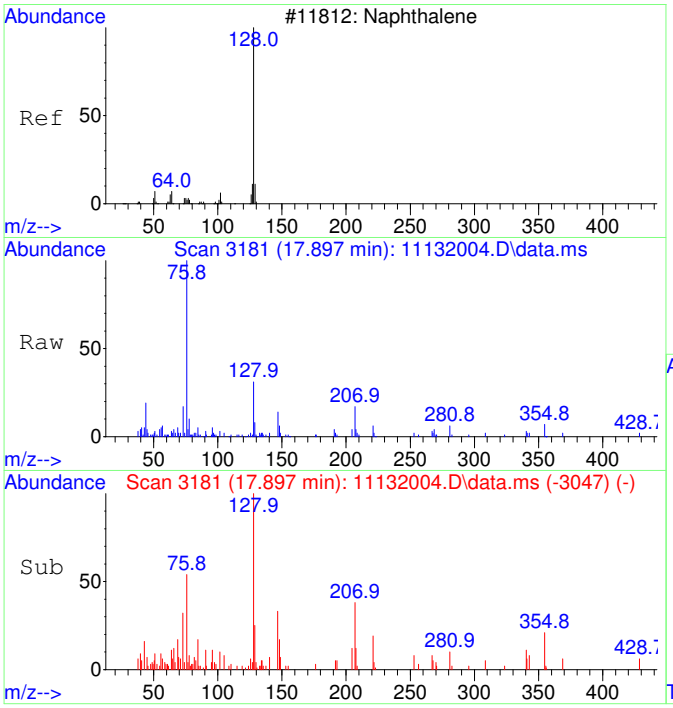


#47
1,2,4-Trimethylbenzene SCAN
Concen: 70.68 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 4183

Ion	Ratio	Lower	Upper
105	100		
120	38.7	16.9	76.9
119	8.5	0.0	41.9
77	21.4	0.0	42.3

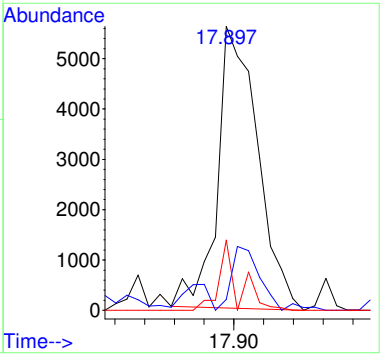




#48
Naphthalene SCAN
Concen: 58.86 ug/L
RT: 17.897 min Scan# 3181
Delta R.T. -0.004 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:128 Resp: 5271

Ion	Ratio	Lower	Upper
128	100		
127	16.4	0.0	44.0
129	12.0	0.0	40.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132004.D
Acq On : 13 Nov 2020 11:56
InstName : AG5975C
Operator : TD
Sample : S20K055-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

M.I. Performed By:
TD at 8:54 am, Nov 16, 2020

M.I. Approved By:
ZR at 6:19 pm, Nov 23, 2020

Quant Time: Nov 16 08:18:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

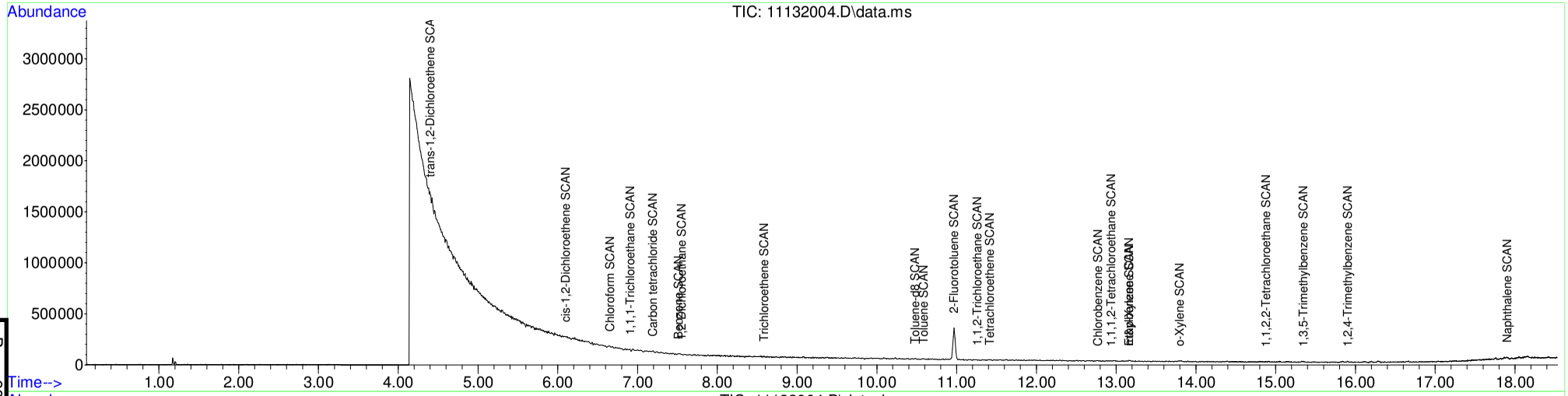
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	460945	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	4467	49.50	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	897m	48.73	ug/L	
3] trans-1,2-Dichloroethene	4.382	61	1060	49.84	ug/L	87
4] 1,1-Dichloroethane	5.086	63	1334	50.39	ug/L	64
5] cis-1,2-Dichloroethene	6.088	61	1373	49.14	ug/L	99
6] Chloroform	6.651	83	1379	48.22	ug/L	98
7] 1,1,1-Trichloroethane	6.907	97	1449	46.65	ug/L	99
8] Carbon tetrachloride	7.187	117	1326	45.36	ug/L	99
9] Benzene	7.503	78	4218	53.86	ug/L	51
10] 1,2-Dichloroethane	7.539	62	1366	48.86	ug/L	69
11] Trichloroethene	8.569	130	1127	47.79	ug/L	94
13] Toluene	10.571	91	5761	50.08	ug/L	99
14] 1,1,2-Trichloroethane	11.222	97	1204	48.03	ug/L	96
15] Tetrachloroethene	11.432	166	1618	48.60	ug/L	100
16] Chlorobenzene	12.765	112	4286	52.03	ug/L	82
17] 1,1,1,2-Tetrachloroethane	12.916	131	1446	48.99	ug/L	95
18] Ethylbenzene	12.972	91	7409	52.91	ug/L	96
19] m&p-Xylene	13.162	91	11595	105.95	ug/L	95
20] o-Xylene	13.782	91	6108	52.24	ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.877	83	2630	50.75	ug/L	99
22] 1,3,5-Trimethylbenzene	15.345	105	6559	52.70	ug/L	95
23] 1,2,4-Trimethylbenzene	15.901	105	6921	53.54	ug/L	93
24] Naphthalene	17.902	128	10366	50.74	ug/L	97
25) 2-Fluorotoluene SCAN	10.969	109	236195	5256.53	ug/L	97
27) trans-1,2-Dichloroethe...	4.394	61	756	64.02	ug/L #	71
29) cis-1,2-Dichloroethene...	6.093	61	638	43.57	ug/L #	1
30) Chloroform SCAN	6.650	83	908	57.18	ug/L #	62
31) 1,1,1-Trichloroethane ...	6.906	97	426	29.44	ug/L #	11
32) Carbon tetrachloride SCAN	7.185	117	425	28.15	ug/L	75
33) Benzene SCAN	7.514	78	7688	192.94	ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	1135	77.14	ug/L #	8
35) Trichloroethene SCAN	8.579	130	829	75.71	ug/L #	38
36) Toluene-d8 SCAN	10.475	98	3579	81.45	ug/L	70
37) Toluene SCAN	10.580	91	4468	79.39	ug/L #	76
38) 1,1,2-Trichloroethane ...	11.252	97	984	77.90	ug/L #	13
39) Tetrachloroethene SCAN	11.409	166	301	22.26	ug/L #	1
40) Chlorobenzene SCAN	12.764	112	1853	48.19	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.931	131	351	24.66	ug/L #	58
42) Ethylbenzene SCAN	13.161	91	7190	70.13	ug/L	90
43) m&p-Xylene SCAN	13.161	91	7190	70.13	ug/L	86
44) o-Xylene SCAN	13.797	91	4107	74.84	ug/L #	36
45) 1,1,2,2-Tetrachloroeth...	14.879	83	791	29.56	ug/L #	20
46) 1,3,5-Trimethylbenzene...	15.343	105	3622	62.62	ug/L	88
47) 1,2,4-Trimethylbenzene...	15.904	105	4183	70.68	ug/L	86
48) Naphthalene SCAN	17.897	128	5271	58.86	ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132004.D
Acq On : 13 Nov 2020 11:56
InstName : AG5975C
Operator : TD
Sample : S20K055-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 16 08:18:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



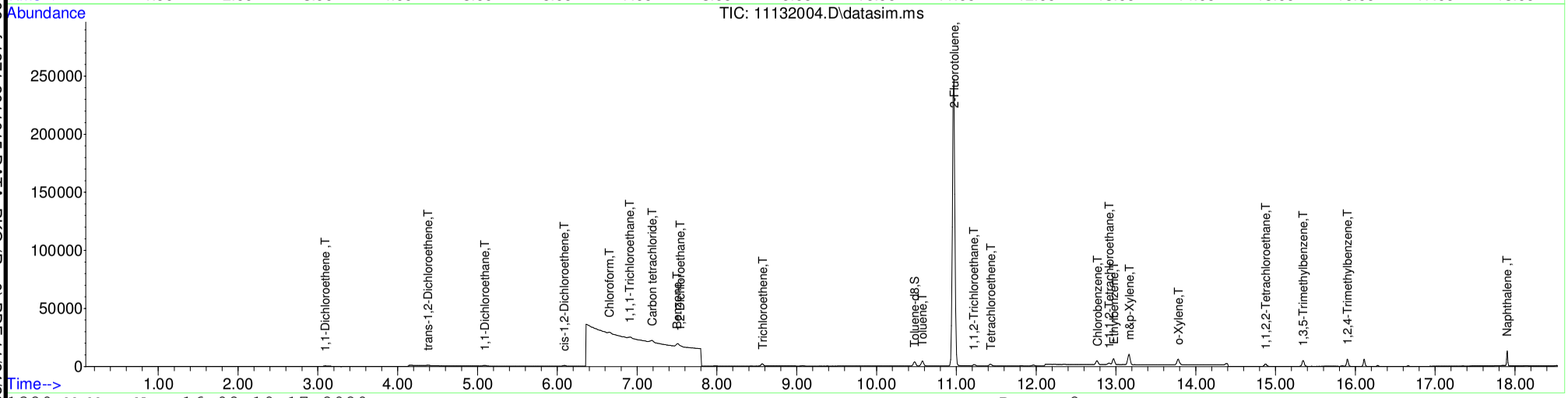
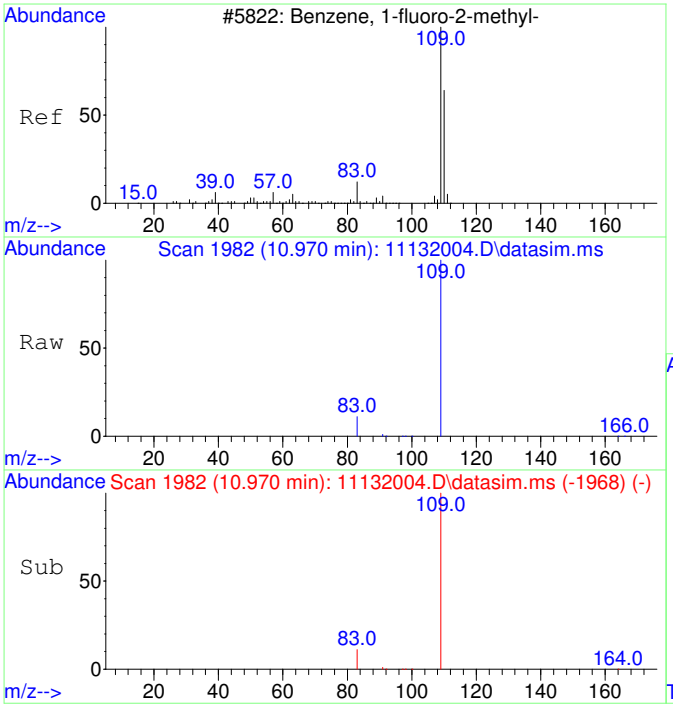


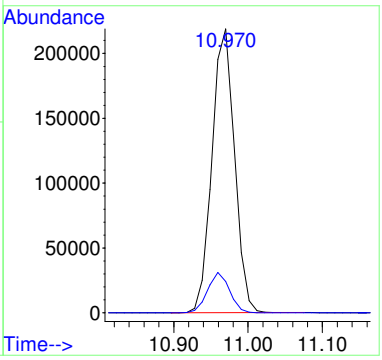
Table of Contents

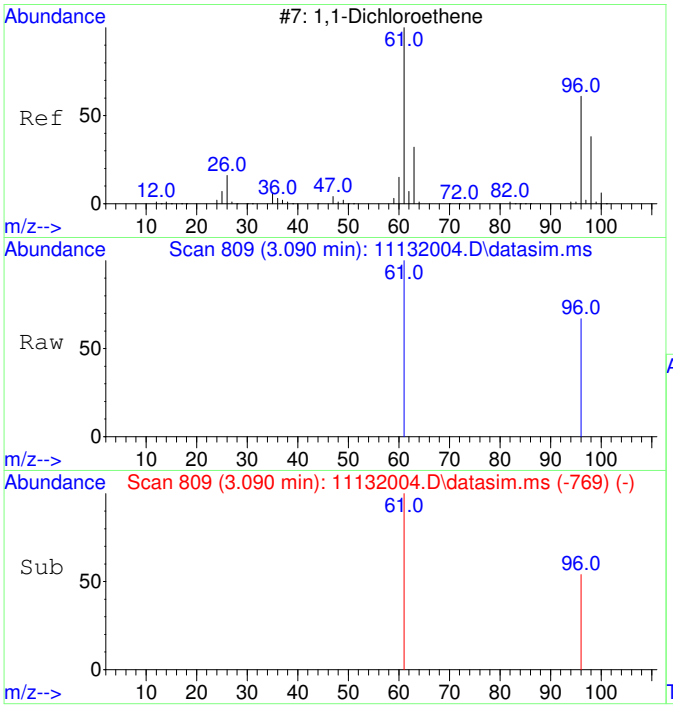


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:109 Resp: 460945

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

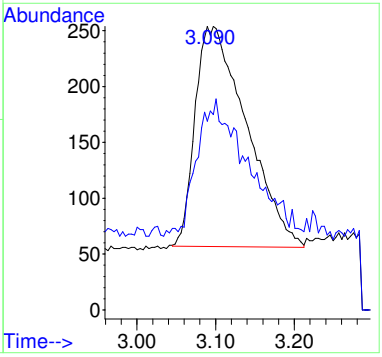


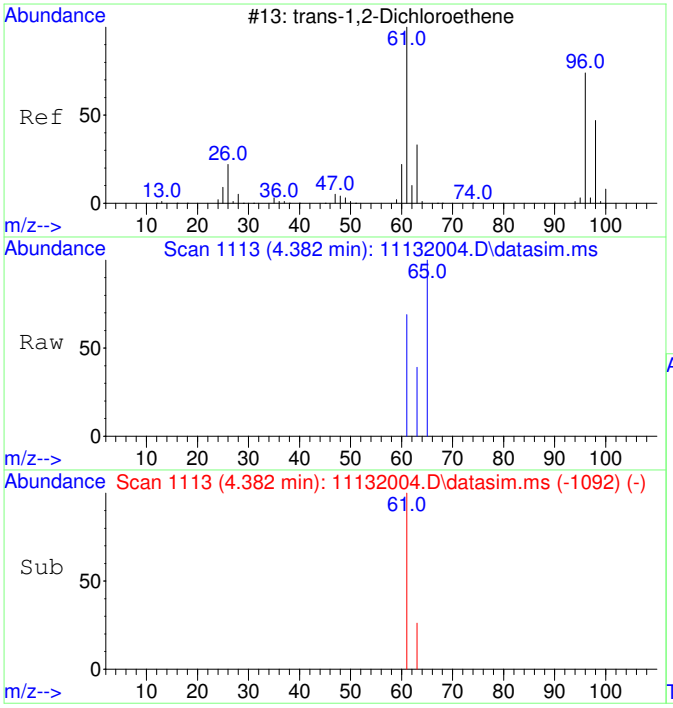


#2
1,1-Dichloroethene
Concen: 48.73 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 897

Ion	Ratio	Lower	Upper
61	100		
96	87.3	37.2	97.2

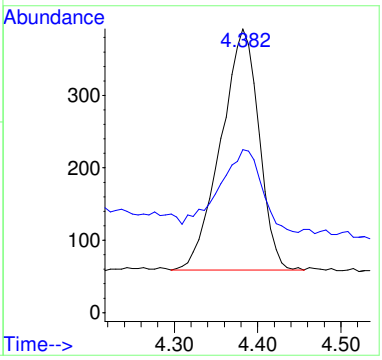


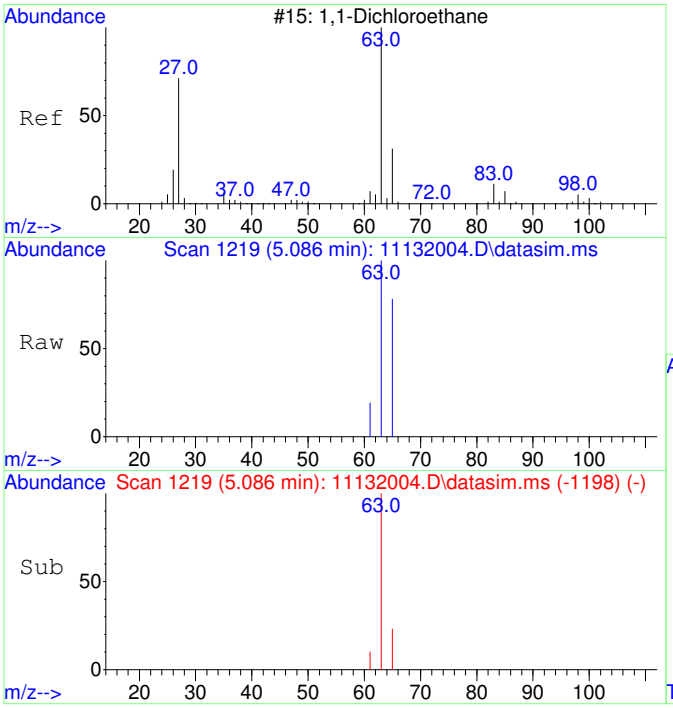


#3
trans-1,2-Dichloroethene
Concen: 49.84 ug/L
RT: 4.382 min Scan# 1113
Delta R.T. -0.013 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 1060

Ion	Ratio	Lower	Upper
61	100		
63	39.9	2.4	62.4

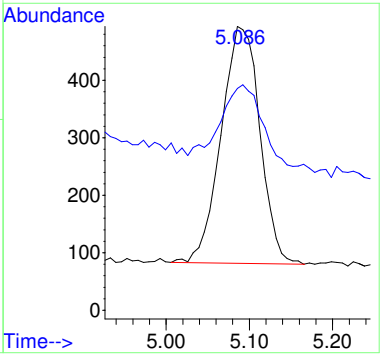


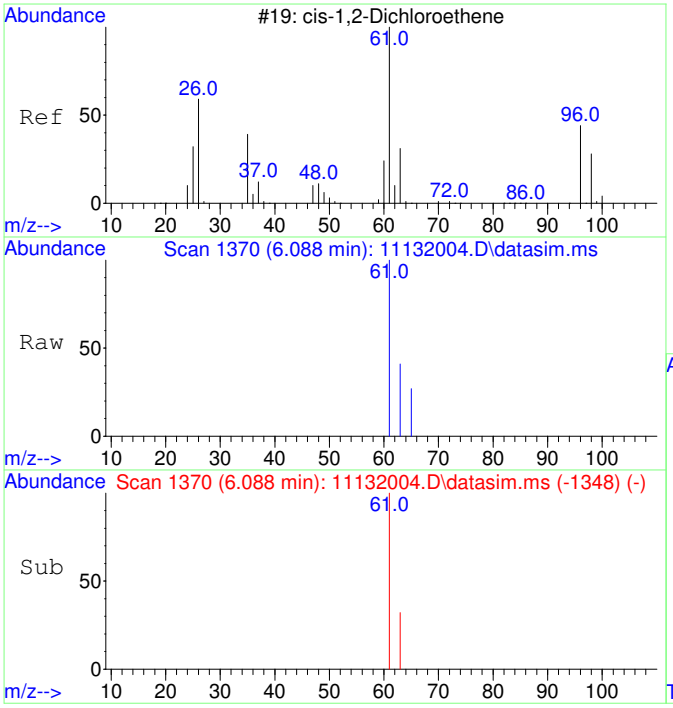


#4
1,1-Dichloroethane
Concen: 50.39 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. -0.013 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 63 Resp: 1334

Ion	Ratio	Lower	Upper
63	100		
65	51.6	1.8	61.8

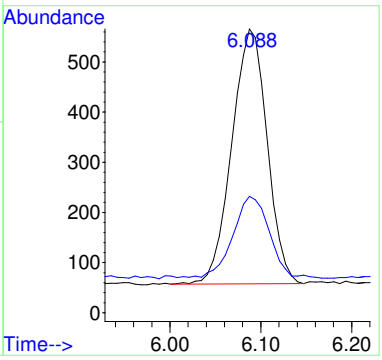


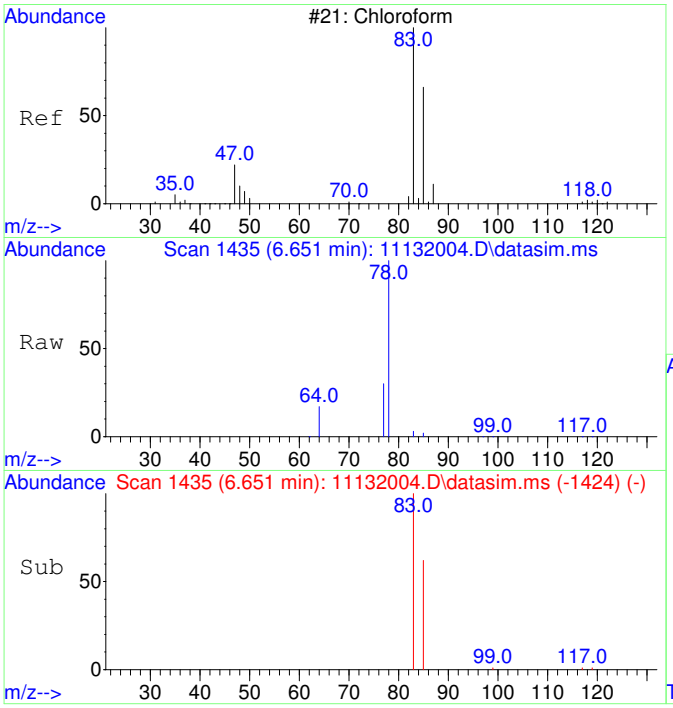


#5
cis-1,2-Dichloroethene
Concen: 49.14 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 1373

Ion	Ratio	Lower	Upper
61	100		
63	32.8	2.5	62.5

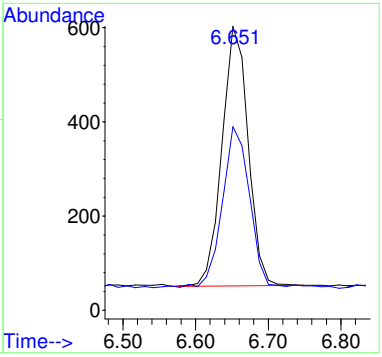


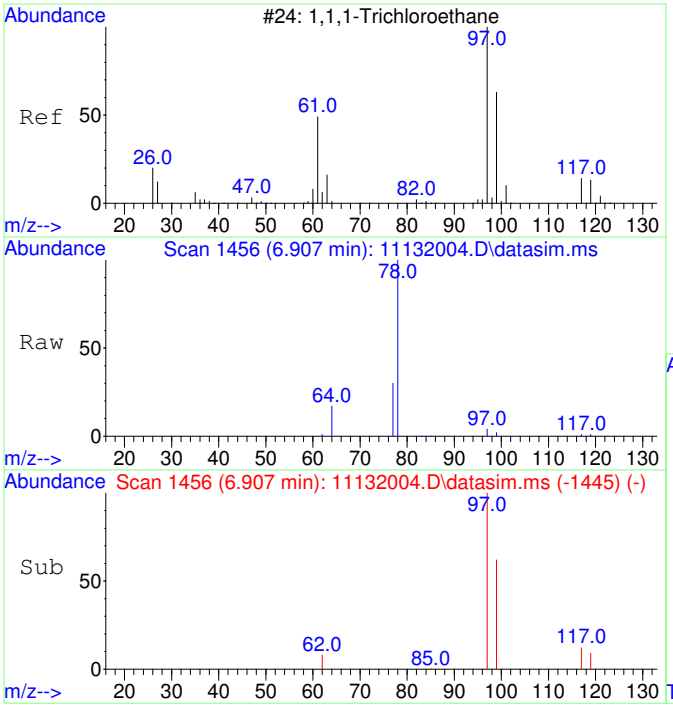


#6
Chloroform
Concen: 48.22 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 1379

Ion	Ratio	Lower	Upper
83	100		
85	63.6	35.1	95.1

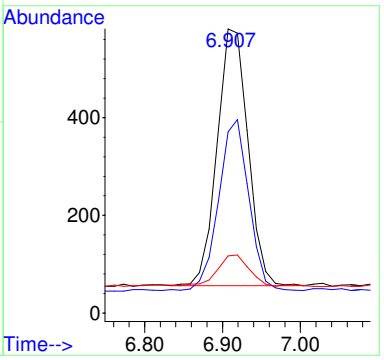


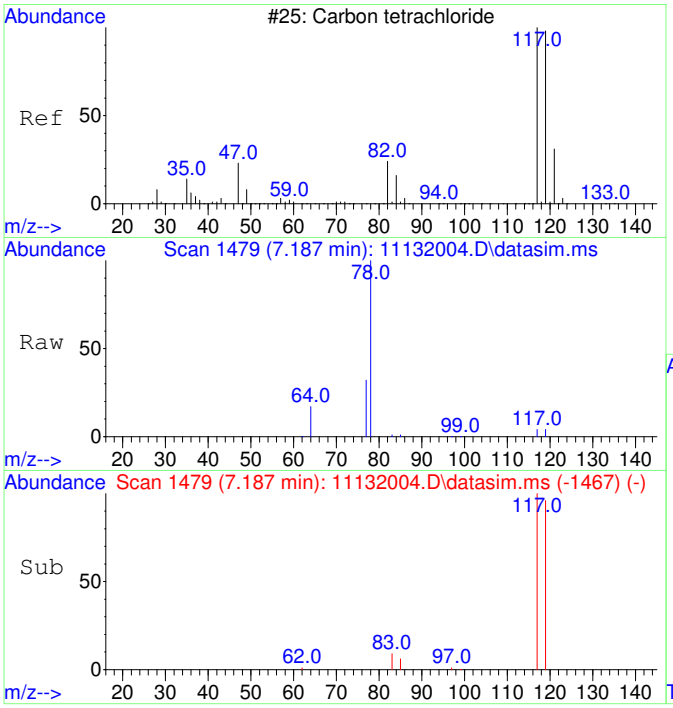


#7
1,1,1-Trichloroethane
Concen: 46.65 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 1449

Ion	Ratio	Lower	Upper
97	100		
99	65.0	34.6	94.6
117	12.8	0.0	43.2

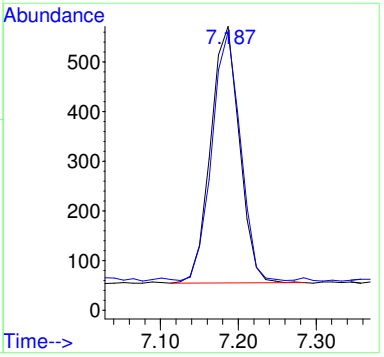


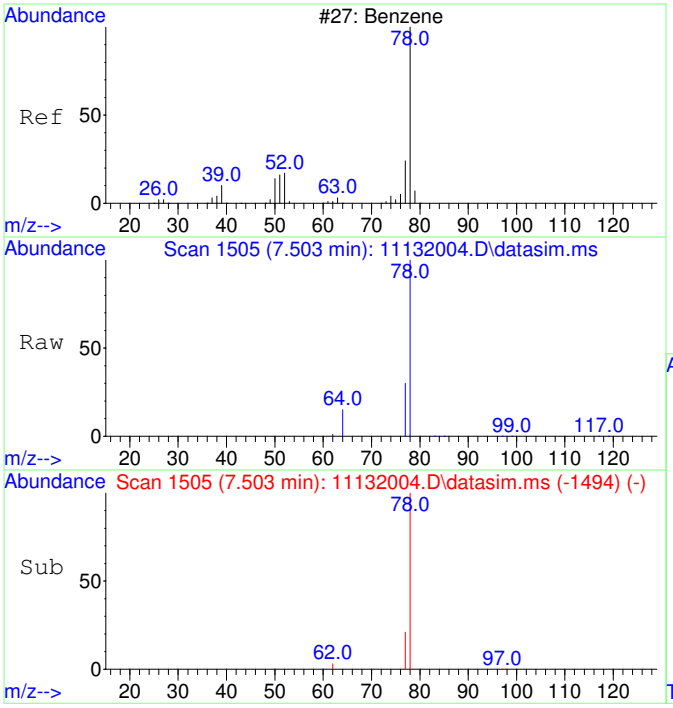


#8
Carbon tetrachloride
Concen: 45.36 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:117 Resp: 1326

Ion	Ratio	Lower	Upper
117	100		
119	95.2	66.4	126.4

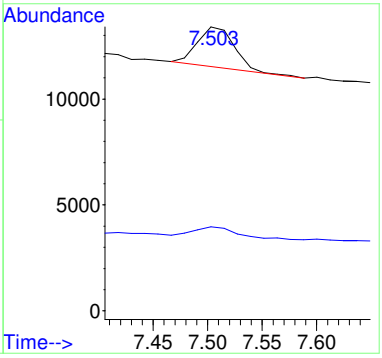


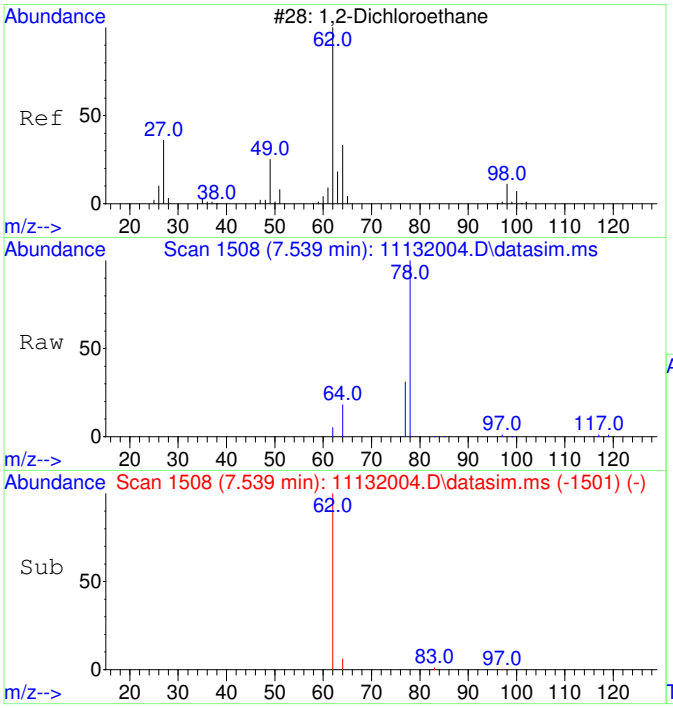


#9
Benzene
Concen: 53.86 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 78 Resp: 4218

Ion	Ratio	Lower	Upper
78	100		
77	47.2	0.0	53.2

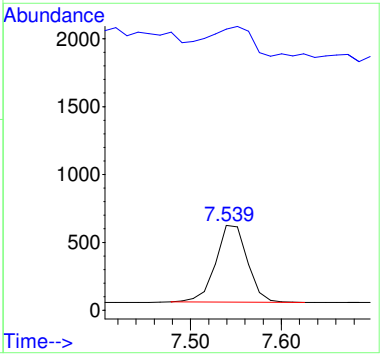


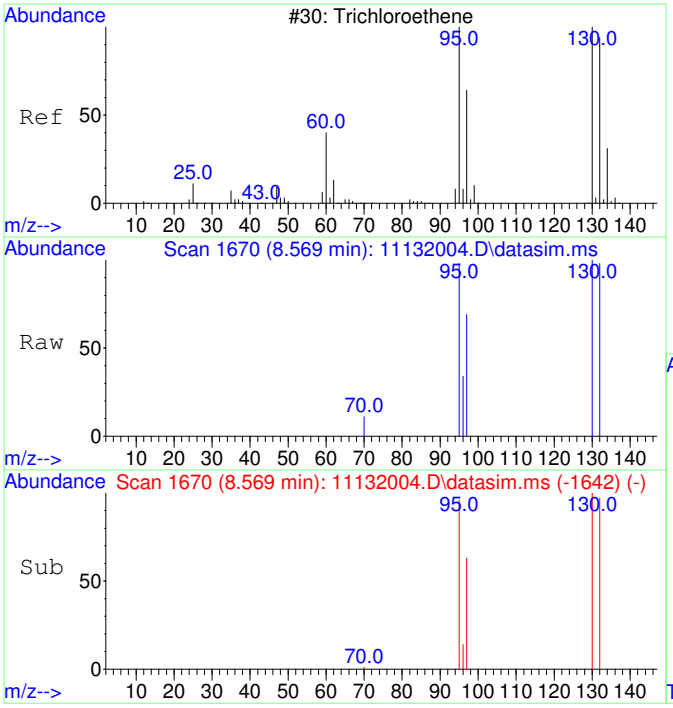


#10
1,2-Dichloroethane
Concen: 48.86 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 62 Resp: 1366

Ion	Ratio	Lower	Upper
62	100		
64	49.6	2.3	62.3

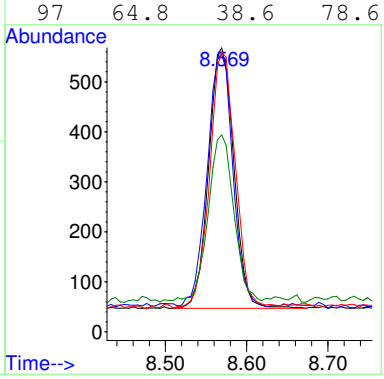


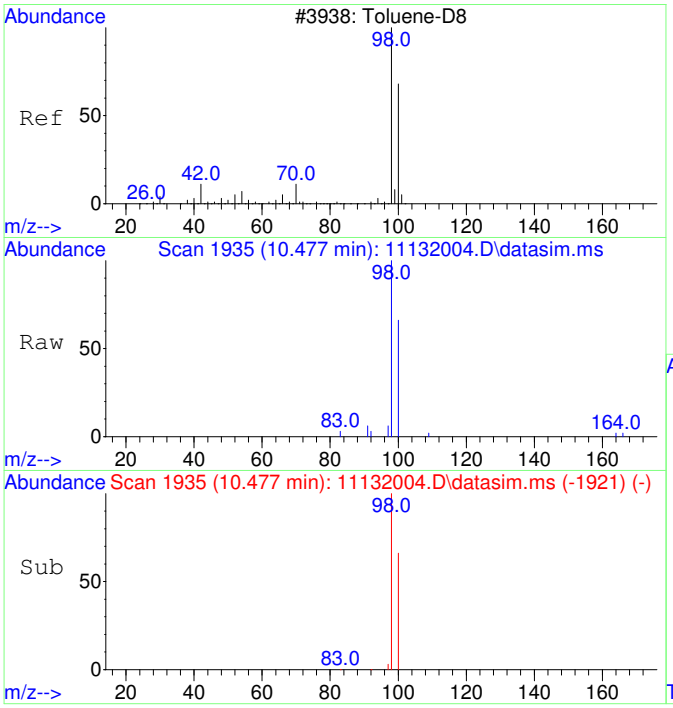


#11
Trichloroethene
Concen: 47.79 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:130 Resp: 1127

Ion	Ratio	Lower	Upper
130	100		
95	97.9	60.7	120.7
132	98.8	76.0	116.0
97	64.8	38.6	78.6

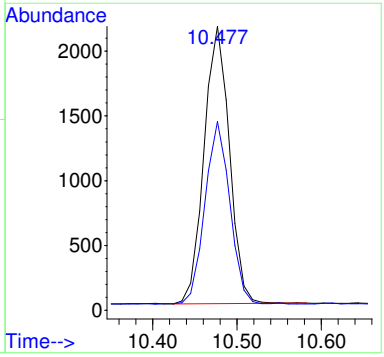


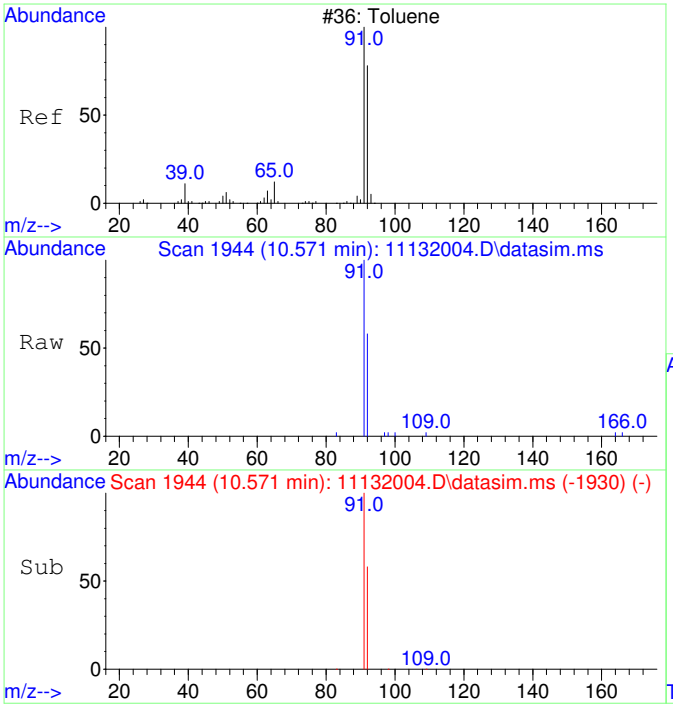


#12
Toluene-d8
Concen: 49.50 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 98 Resp: 4467

Ion	Ratio	Lower	Upper
98	100		
100	64.3	37.1	97.1

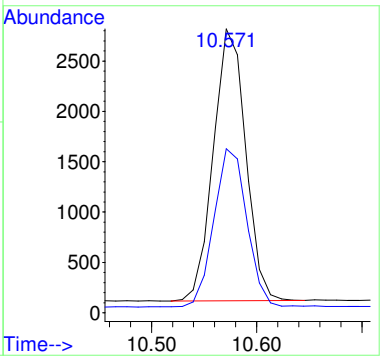


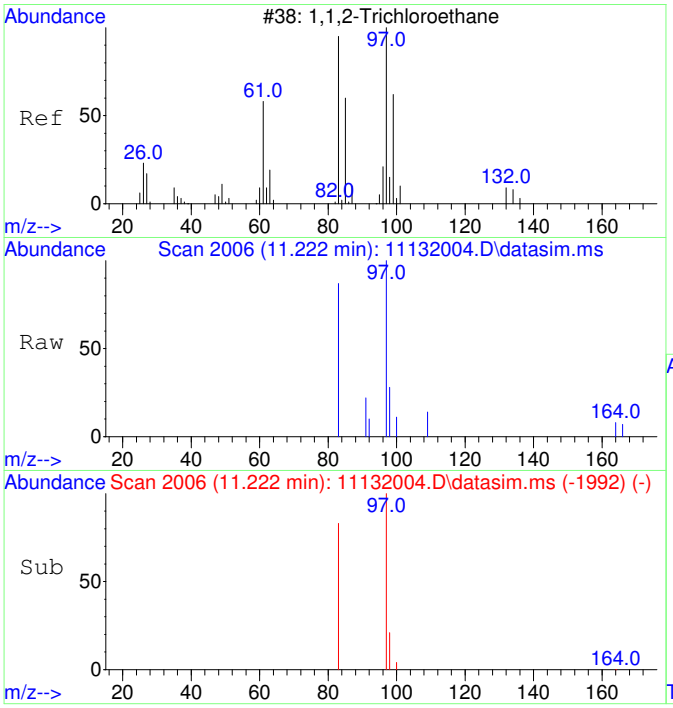


#13
Toluene
Concen: 50.08 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 5761

Ion	Ratio	Lower	Upper
91	100		
92	59.3	29.9	89.9

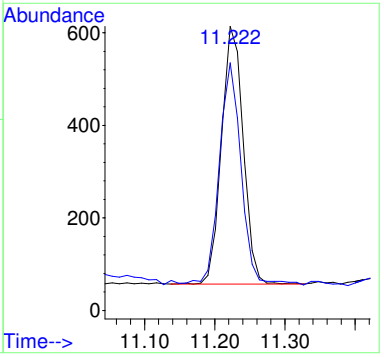


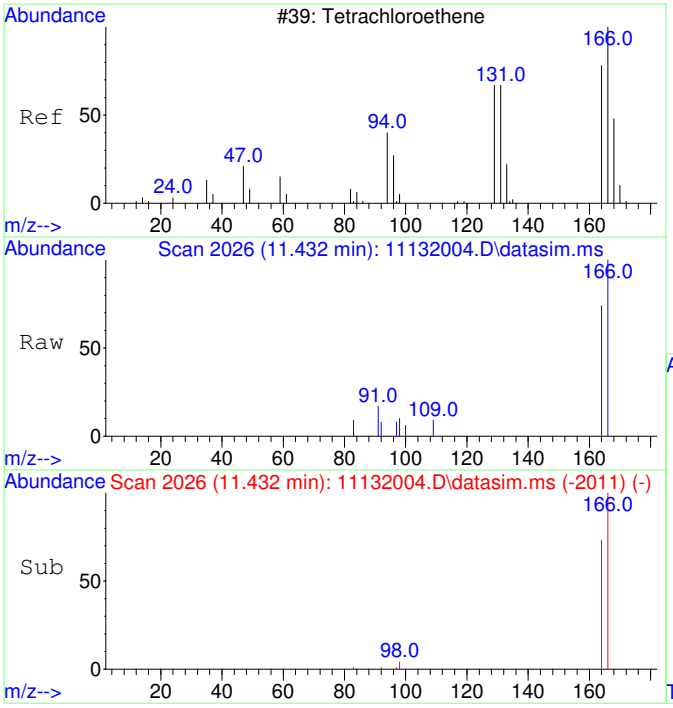


#14
1,1,2-Trichloroethane
Concen: 48.03 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 1204

Ion	Ratio	Lower	Upper
97	100		
83	84.9	51.2	111.2

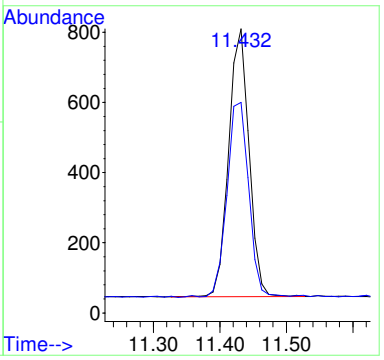


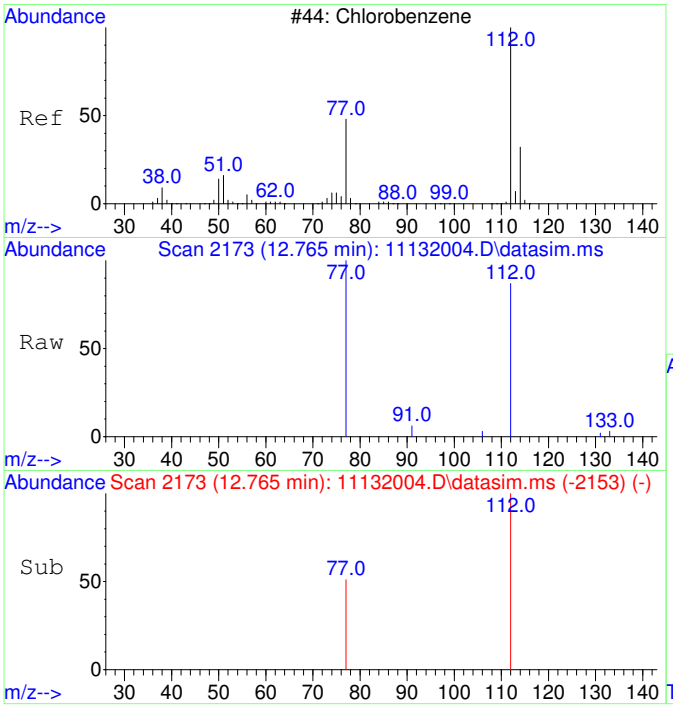


#15
Tetrachloroethene
Concen: 48.60 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:166 Resp: 1618

Ion	Ratio	Lower	Upper
166	100		
164	77.4	47.8	107.8

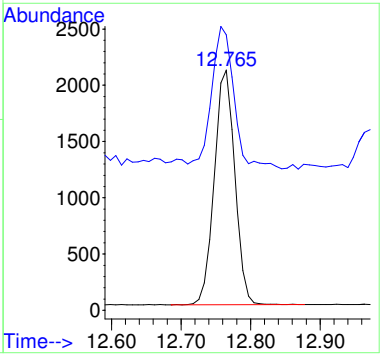


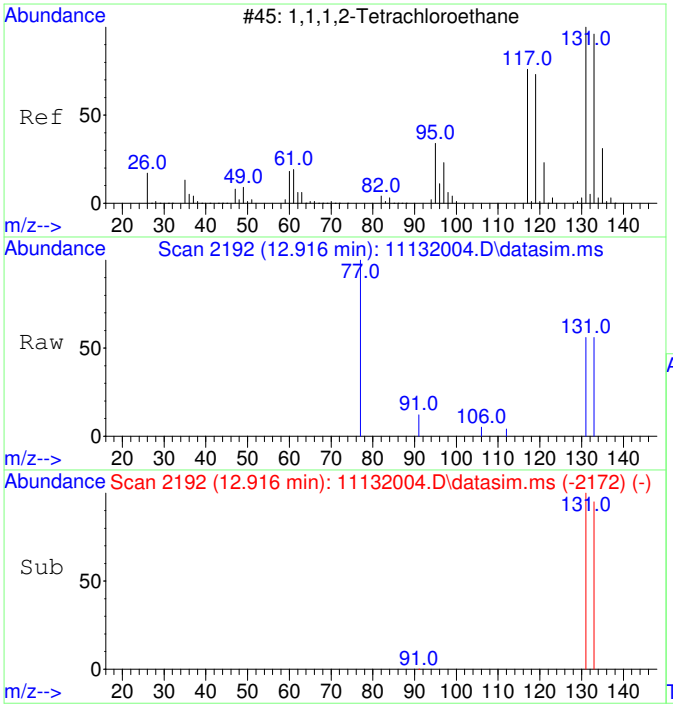


#16
Chlorobenzene
Concen: 52.03 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:112 Resp: 4286

Ion	Ratio	Lower	Upper
112	100		
77	66.3	23.6	83.6

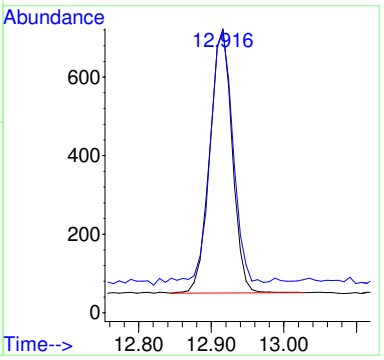


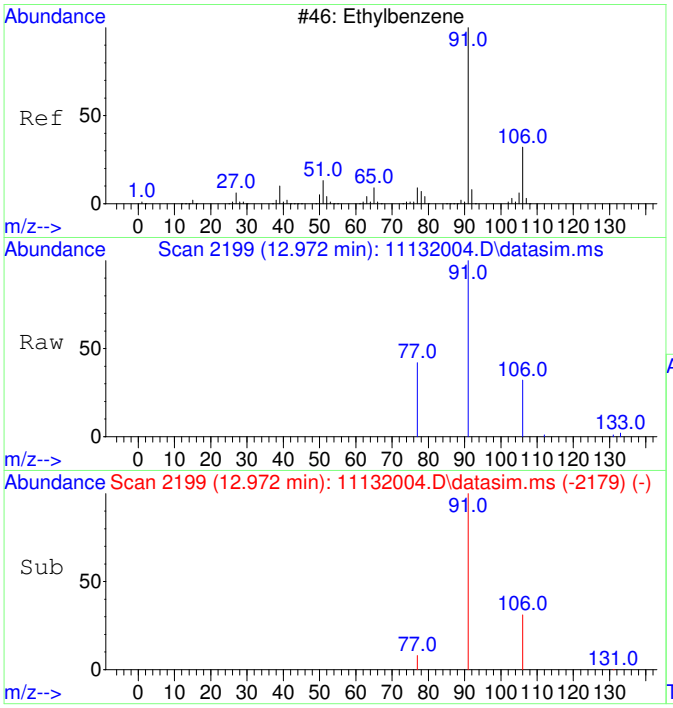


#17
1,1,1,2-Tetrachloroethane
Concen: 48.99 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:131 Resp: 1446

Ion	Ratio	Lower	Upper
131	100		
133	100.8	66.3	126.3

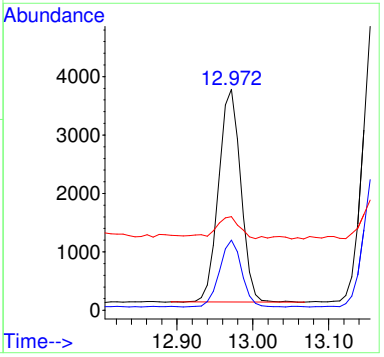


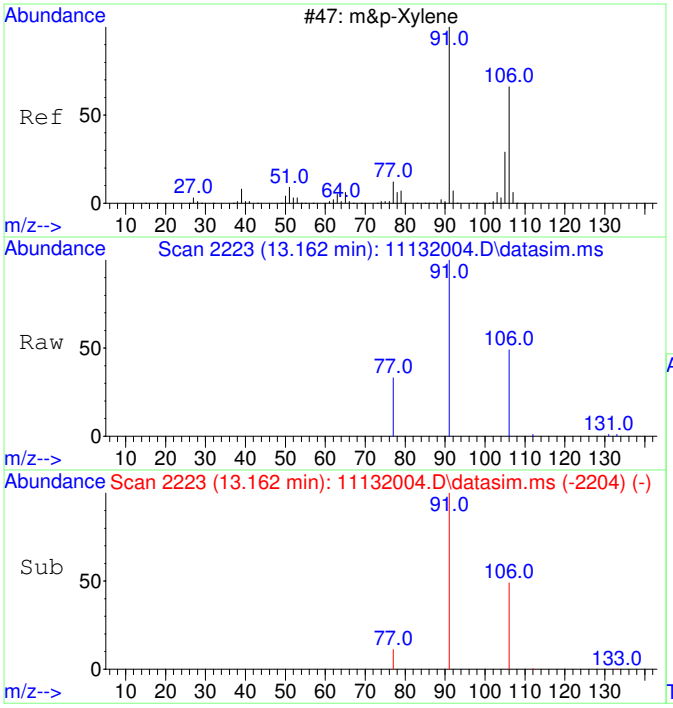


#18
Ethylbenzene
Concen: 52.91 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 7409

Ion	Ratio	Lower	Upper
91	100		
106	31.2	3.0	63.0
77	11.3	0.0	38.2

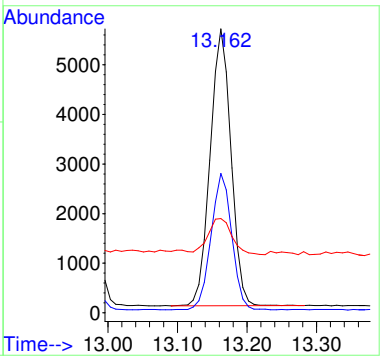


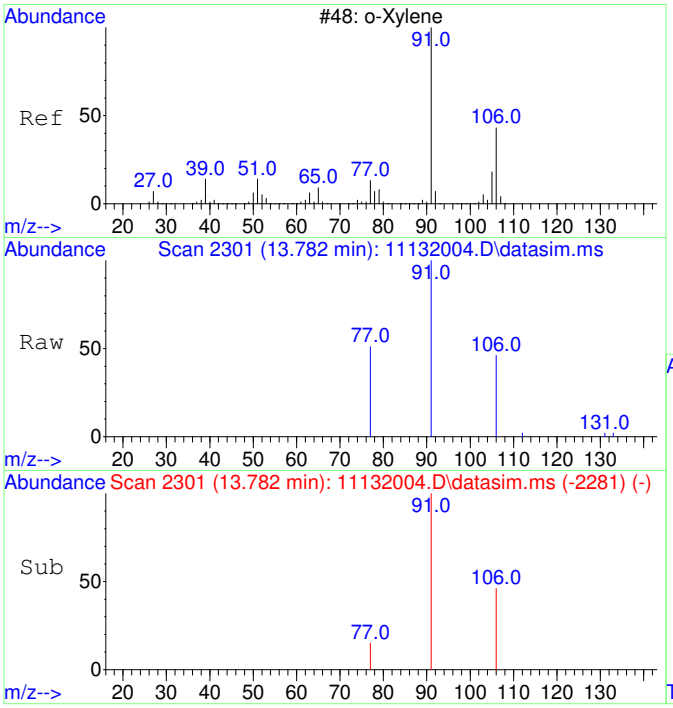


#19
m&p-Xylene
Concen: 105.95 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 11595

Ion	Ratio	Lower	Upper
91	100		
106	49.0	22.2	82.2
77	14.9	0.0	42.4

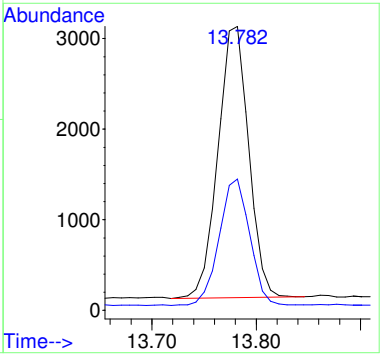


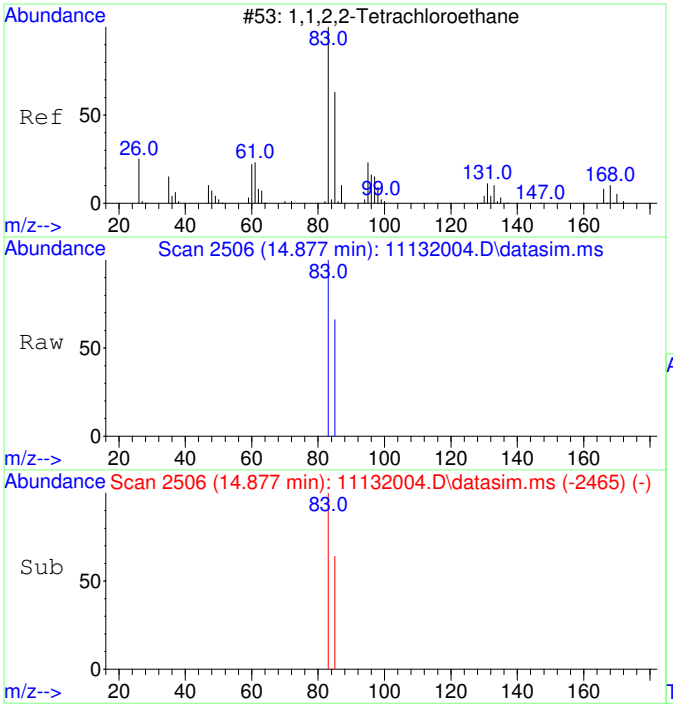


#20
o-Xylene
Concen: 52.24 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 6108

Ion	Ratio	Lower	Upper
91	100		
106	46.2	19.2	79.2

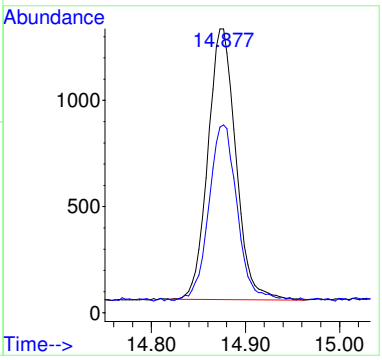


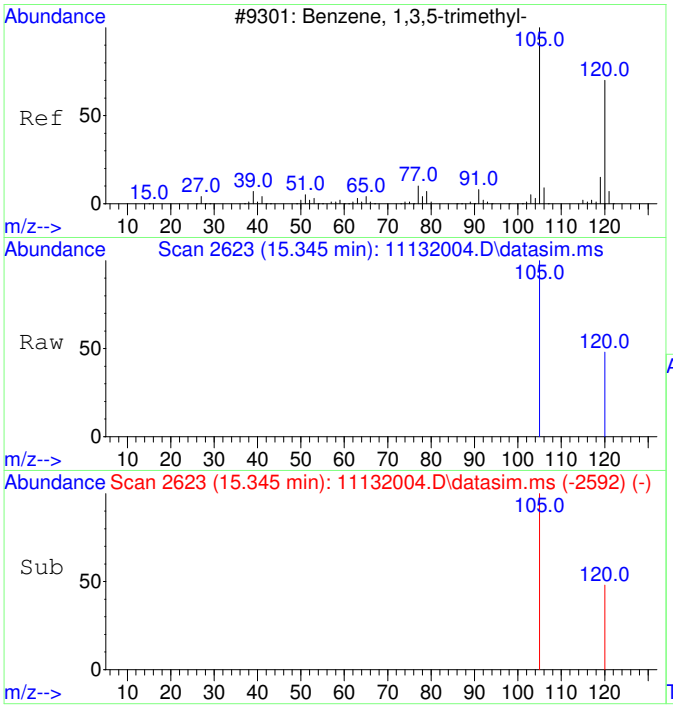


#21
1,1,2,2-Tetrachloroethane
Concen: 50.75 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. 0.004 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 2630

Ion	Ratio	Lower	Upper
83	100		
85	65.2	34.8	94.8

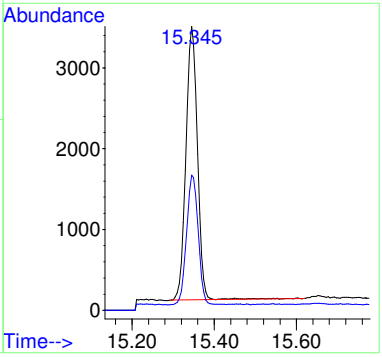


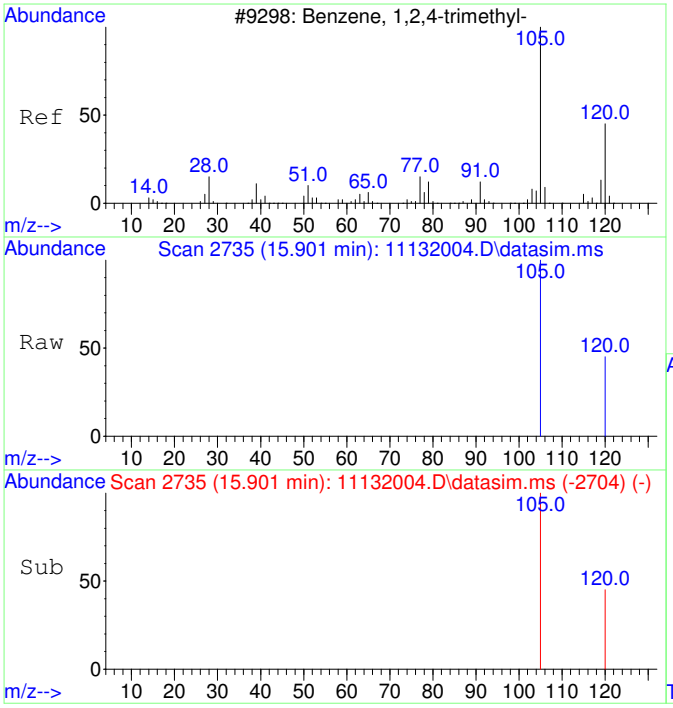


#22
1,3,5-Trimethylbenzene
Concen: 52.70 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 6559

Ion	Ratio	Lower	Upper
105	100		
120	47.6	21.1	81.1

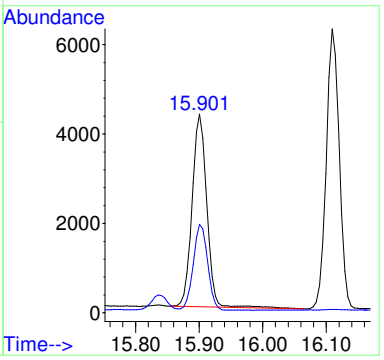


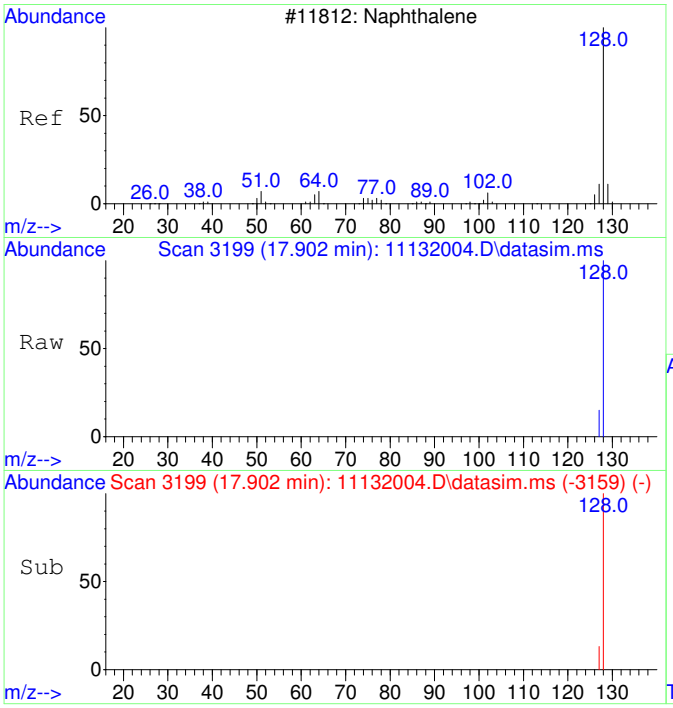


#23
1,2,4-Trimethylbenzene
Concen: 53.54 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 6921

Ion	Ratio	Lower	Upper
105	100		
120	42.3	17.2	77.2

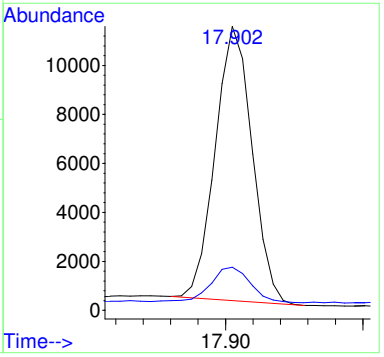


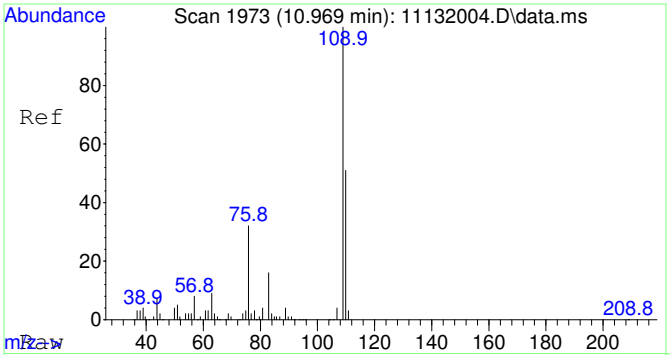


#24
Naphthalene
Concen: 50.74 ug/L
RT: 17.902 min Scan# 3199
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:128 Resp: 10366

Ion	Ratio	Lower	Upper
128	100		
127	13.7	0.0	42.5

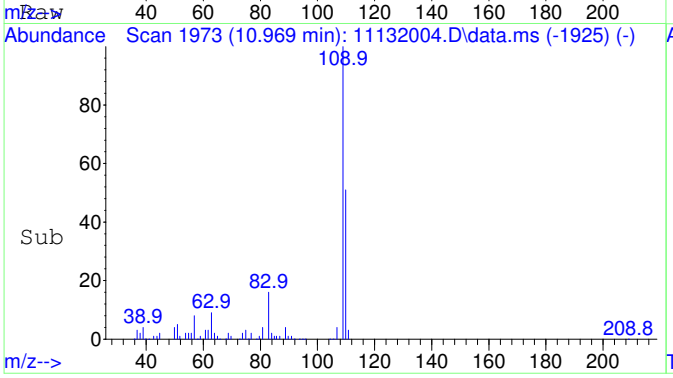


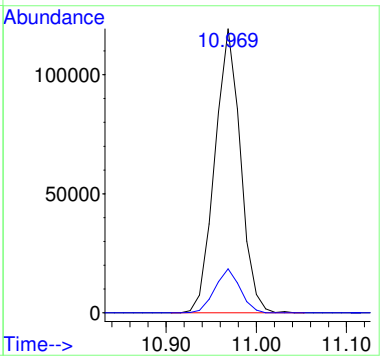


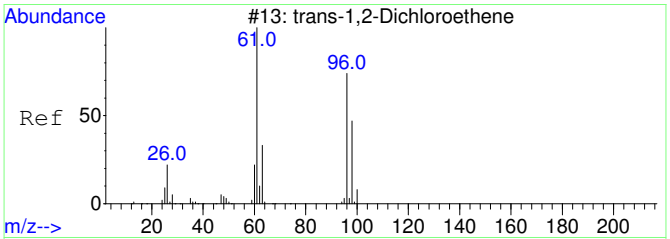
#25
2-Fluorotoluene SCAN
Concen: 5256.53 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:109 Resp: 236195

Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	43.8



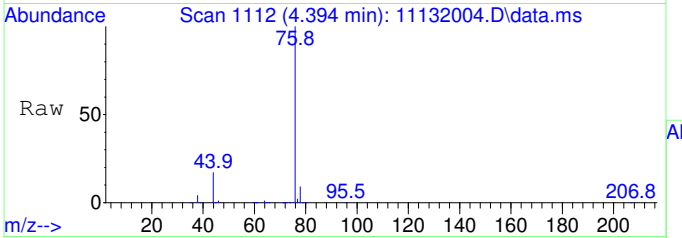


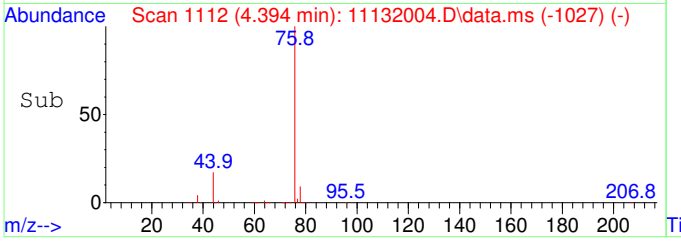


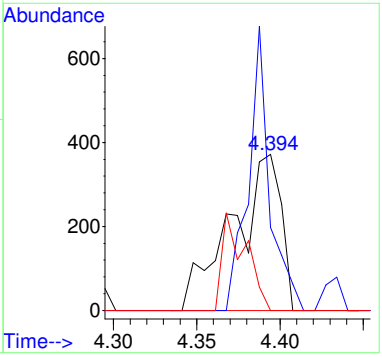
#27
trans-1,2-Dichloroethene SCAN
Concen: 64.02 ug/L
RT: 4.394 min Scan# 1112
Delta R.T. -0.007 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

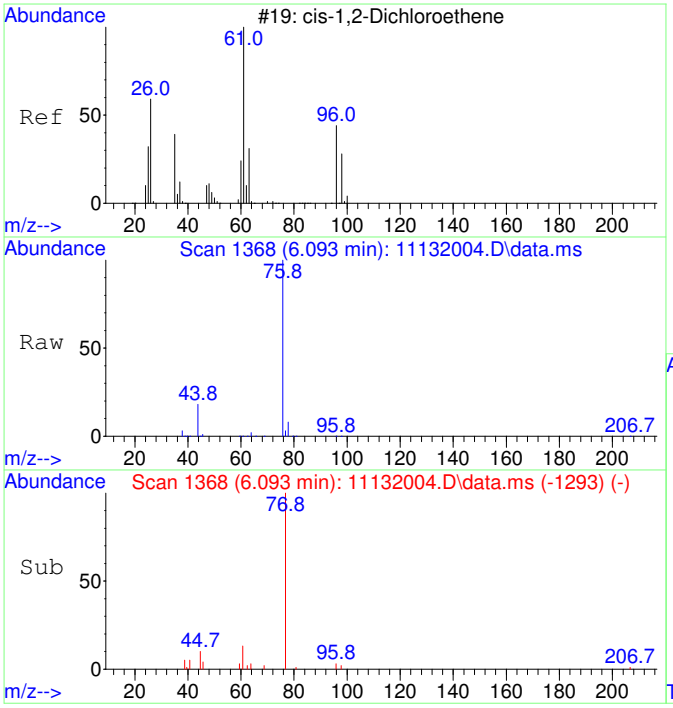
Tgt Ion: 61 Resp: 756

Ion	Ratio	Lower	Upper
61	100		
96	79.4	49.0	109.0
98	0.0	20.5	80.5#





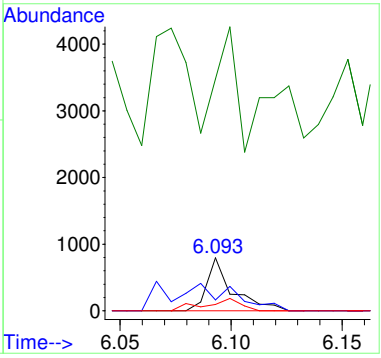


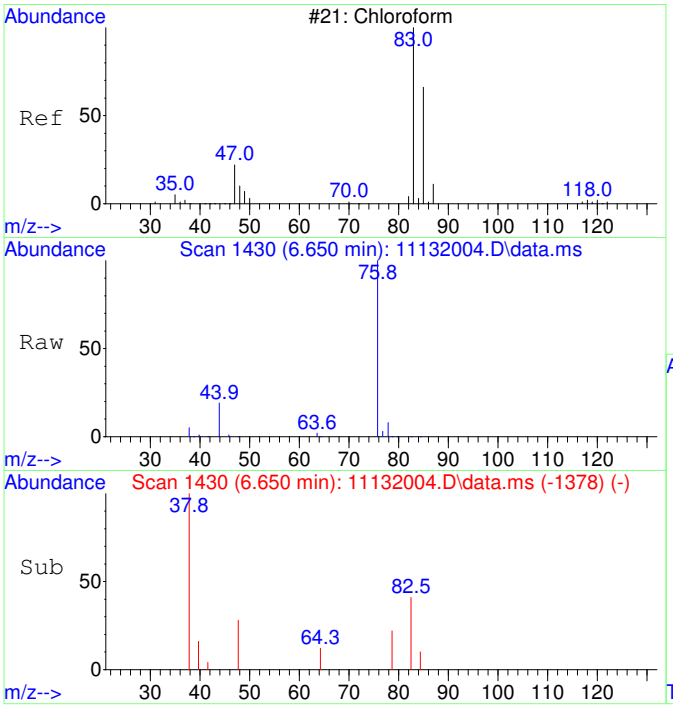


#29
cis-1,2-Dichloroethene SCAN
Concen: 43.57 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 638

Ion	Ratio	Lower	Upper
61	100		
96	9.4	39.9	99.9#
98	32.9	13.5	73.5
64	214.6	4.5	64.5#

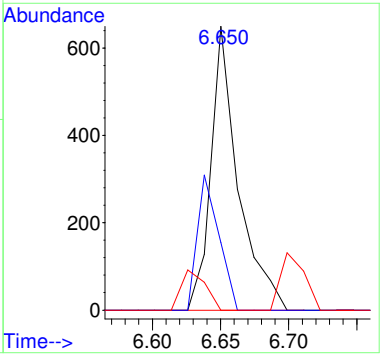


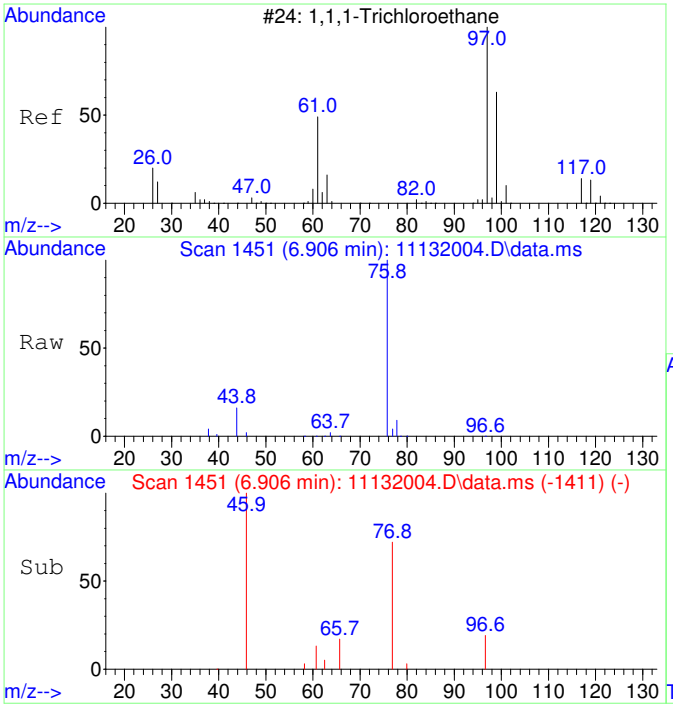


#30
Chloroform SCAN
Concen: 57.18 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 908

Ion	Ratio	Lower	Upper
83	100		
85	37.3	34.6	94.6
47	0.0	0.0	53.4

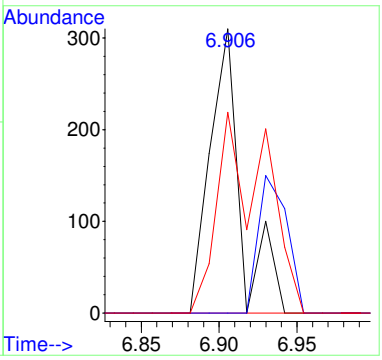


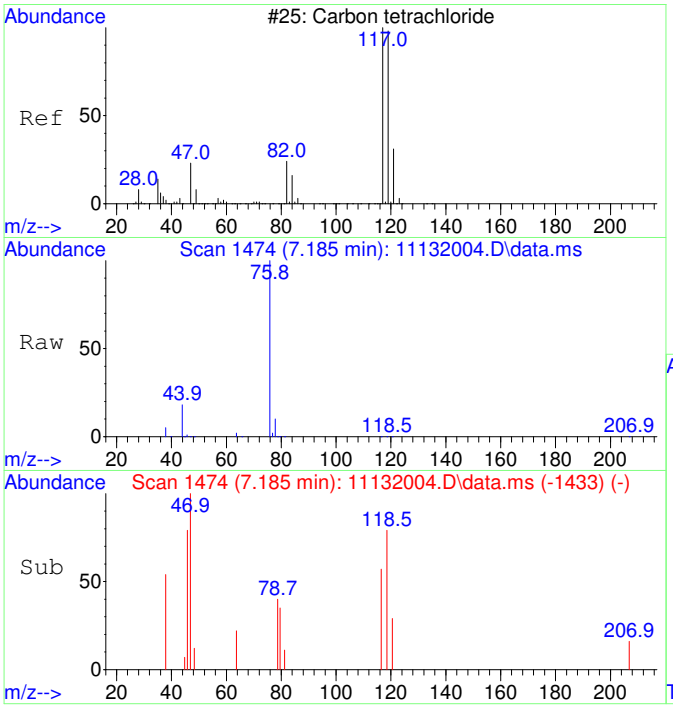


#31
1,1,1-Trichloroethane SCAN
Concen: 29.44 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 426

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	109.2	18.0	78.0#

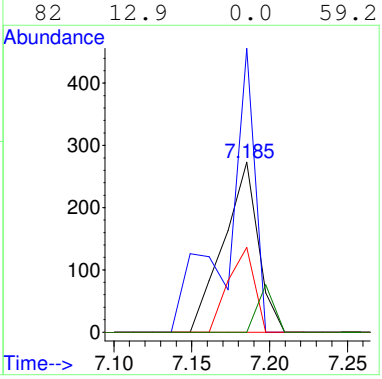


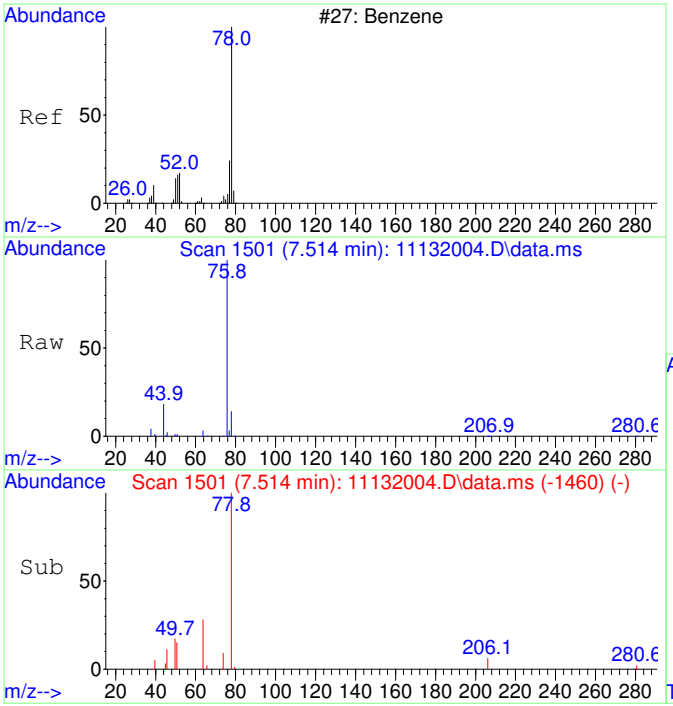


#32
Carbon tetrachloride SCAN
Concen: 28.15 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:117 Resp: 425

Ion	Ratio	Lower	Upper
117	100		
119	132.5	75.5	135.5
121	37.6	0.0	58.8
82	12.9	0.0	59.2

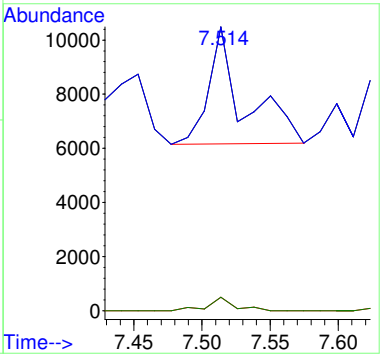


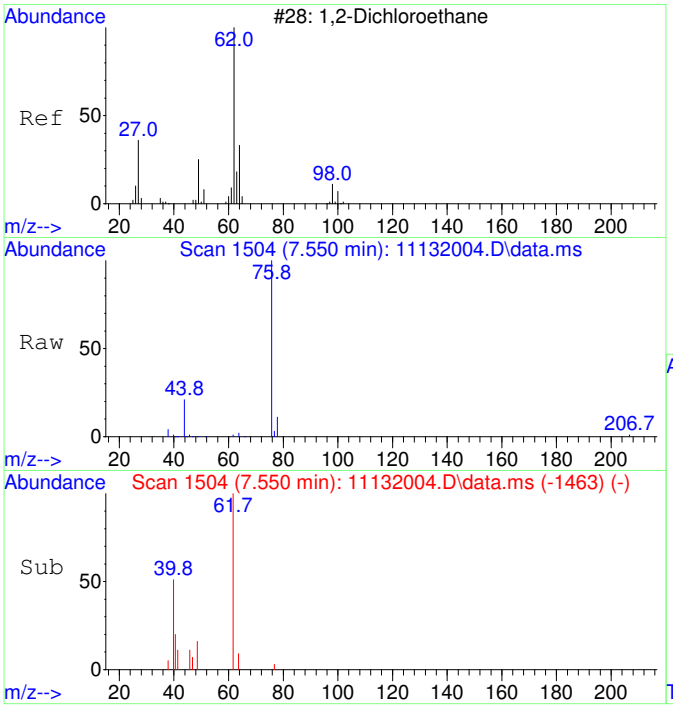


#33
Benzene SCAN
Concen: 192.94 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 78 Resp: 7688

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.6	0.0	47.9
51	8.6	0.0	44.1

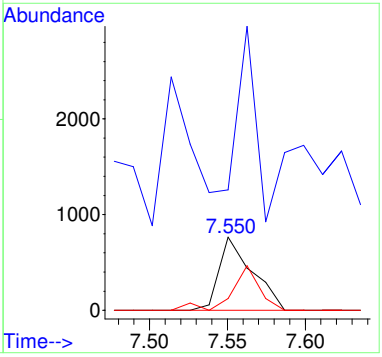


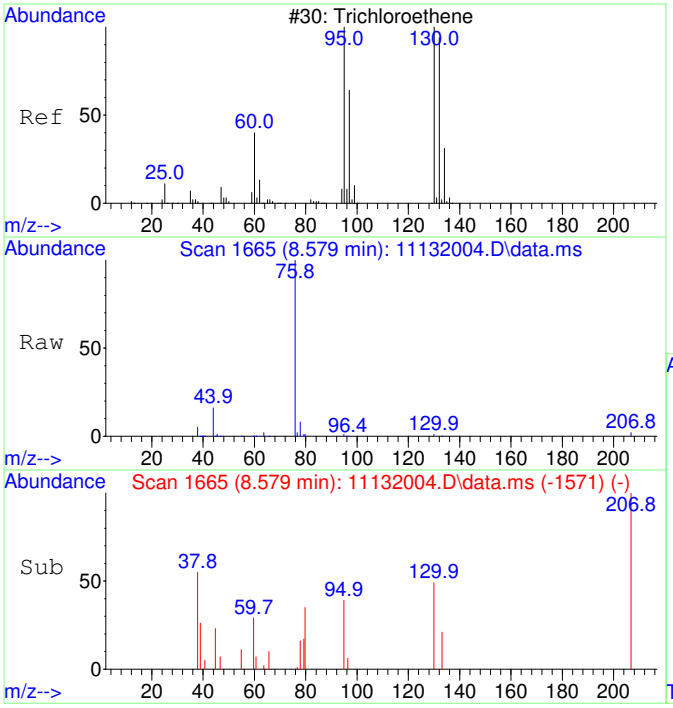


#34
1,2-Dichloroethane SCAN
Concen: 77.14 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 62 Resp: 1135

Ion	Ratio	Lower	Upper
62	100		
64	123.5	5.2	65.2#
49	50.9	3.9	63.9

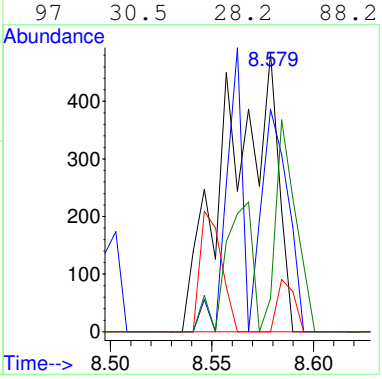


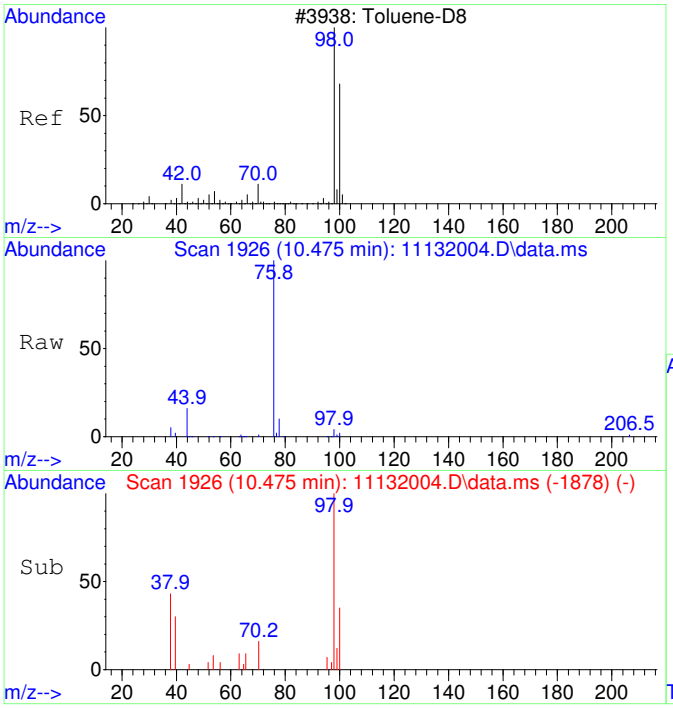


#35
Trichloroethene SCAN
Concen: 75.71 ug/L
RT: 8.579 min Scan# 1665
Delta R.T. 0.011 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:130 Resp: 829

Ion	Ratio	Lower	Upper
130	100		
95	42.1	60.5	120.5#
132	6.4	59.6	119.6#
97	30.5	28.2	88.2

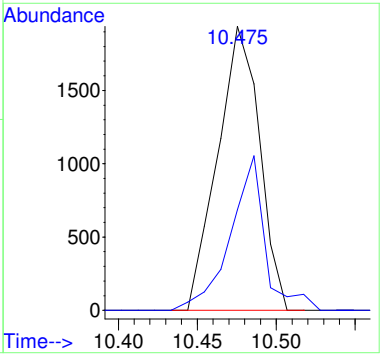


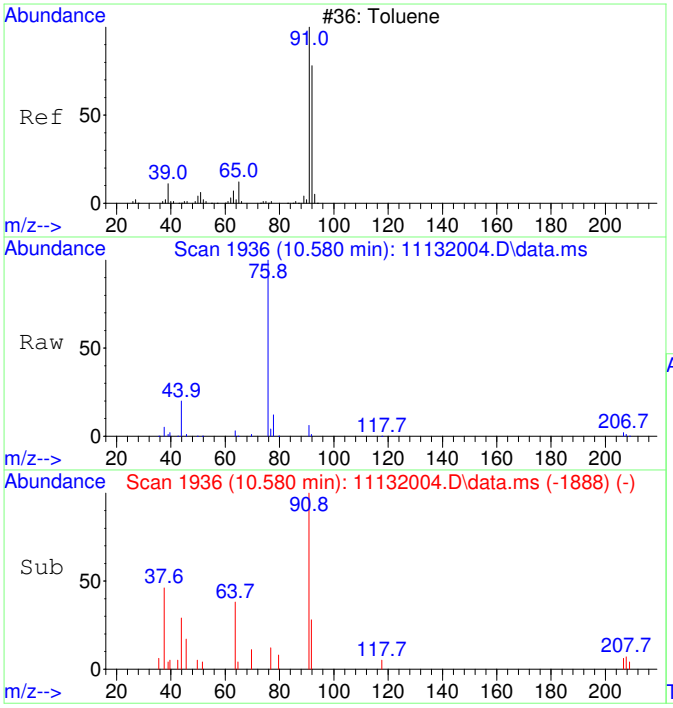


#36
Toluene-d8 SCAN
Concen: 81.45 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 98 Resp: 3579

Ion	Ratio	Lower	Upper
98	100		
100	45.0	40.0	100.0

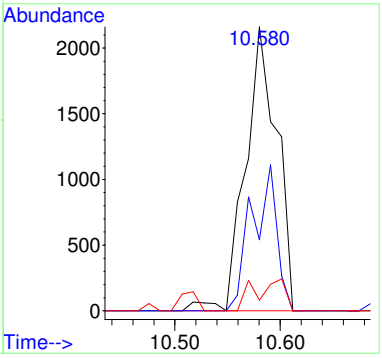


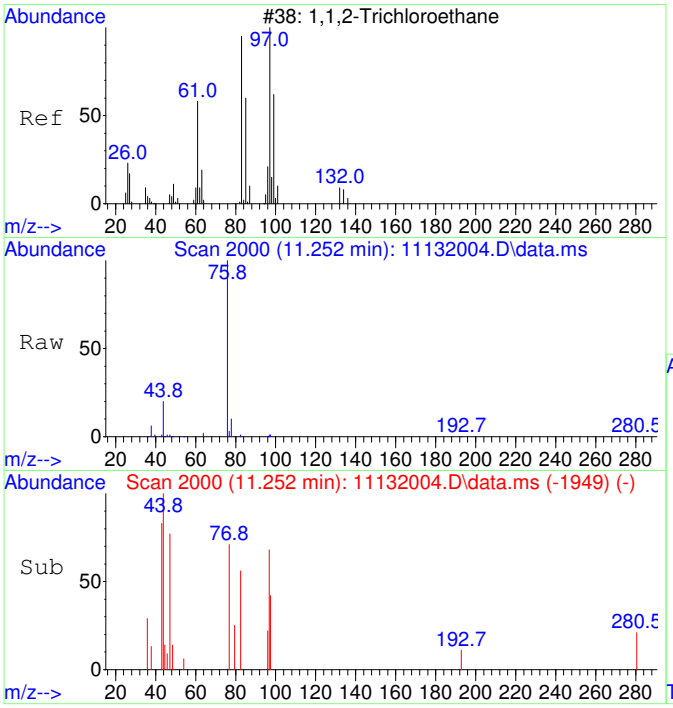


#37
Toluene SCAN
Concen: 79.39 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 4468

Ion	Ratio	Lower	Upper
91	100		
92	40.9	28.3	88.3
65	0.0	0.0	41.0

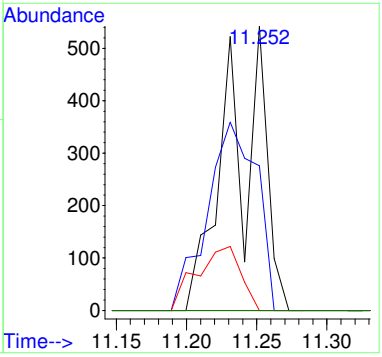


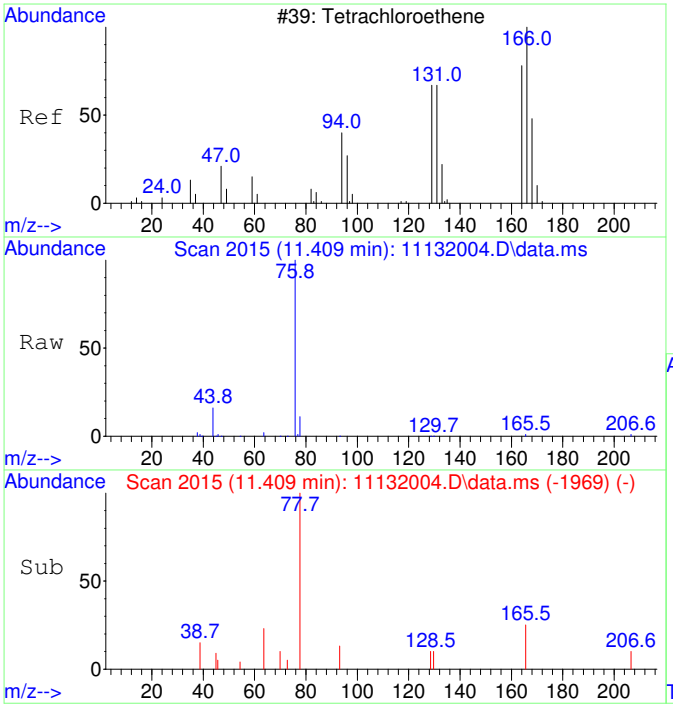


#38
1,1,2-Trichloroethane SCAN
Concen: 77.90 ug/L
RT: 11.252 min Scan# 2000
Delta R.T. 0.031 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 984

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#

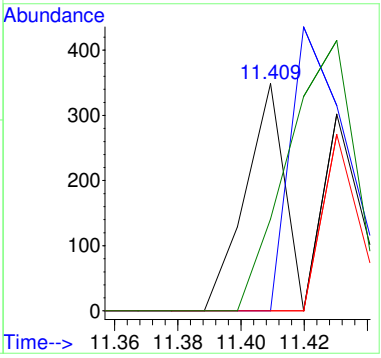


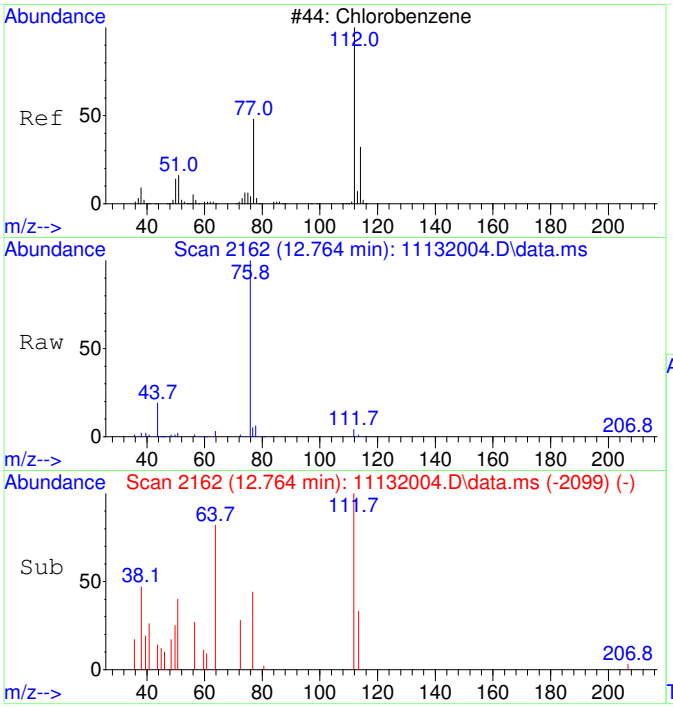


#39
Tetrachloroethene SCAN
Concen: 22.26 ug/L
RT: 11.409 min Scan# 2015
Delta R.T. -0.021 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:166 Resp: 301

Ion	Ratio	Lower	Upper
166	100		
164	199.0	50.9	110.9#
131	0.0	38.7	98.7#
129	0.0	41.8	101.8#

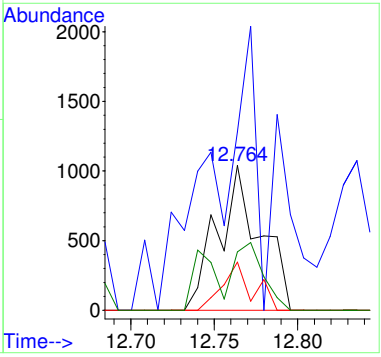


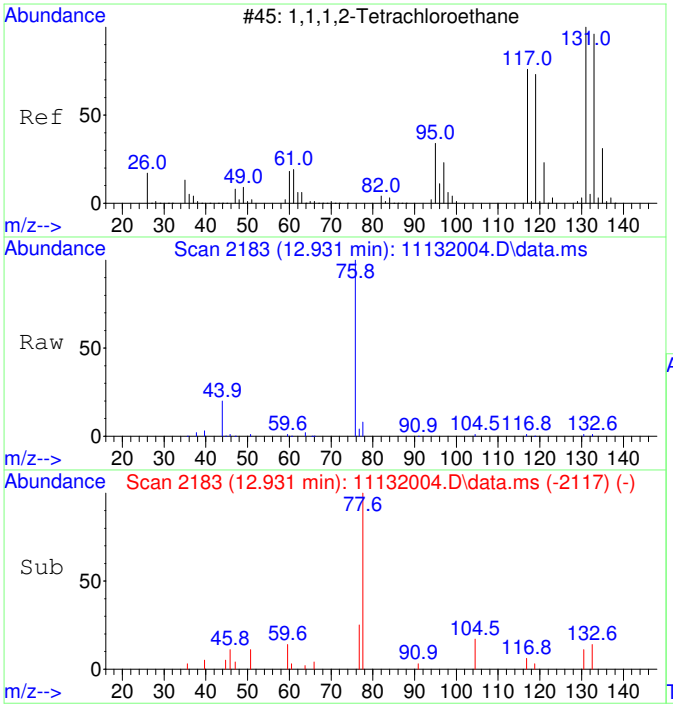


#40
Chlorobenzene SCAN
Concen: 48.19 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:112 Resp: 1853

Ion	Ratio	Lower	Upper
112	100		
77	201.7	28.2	88.2#
114	23.3	2.3	62.3
51	26.7	0.0	50.1

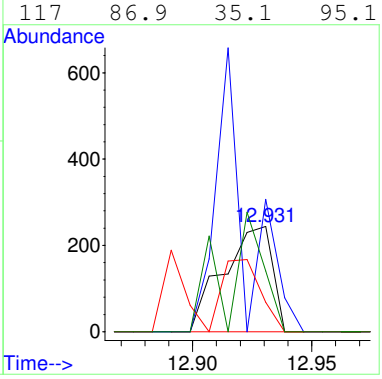


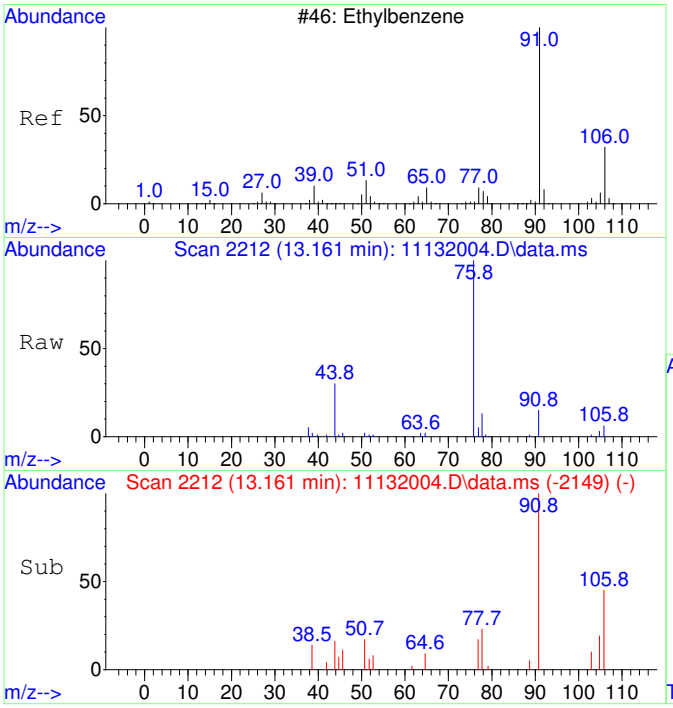


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 24.66 ug/L
RT: 12.931 min Scan# 2183
Delta R.T. 0.024 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:131 Resp: 351

Ion	Ratio	Lower	Upper
131	100		
133	164.7	66.9	126.9#
119	54.1	40.4	100.4
117	86.9	35.1	95.1

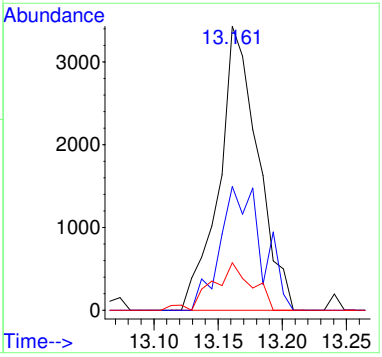


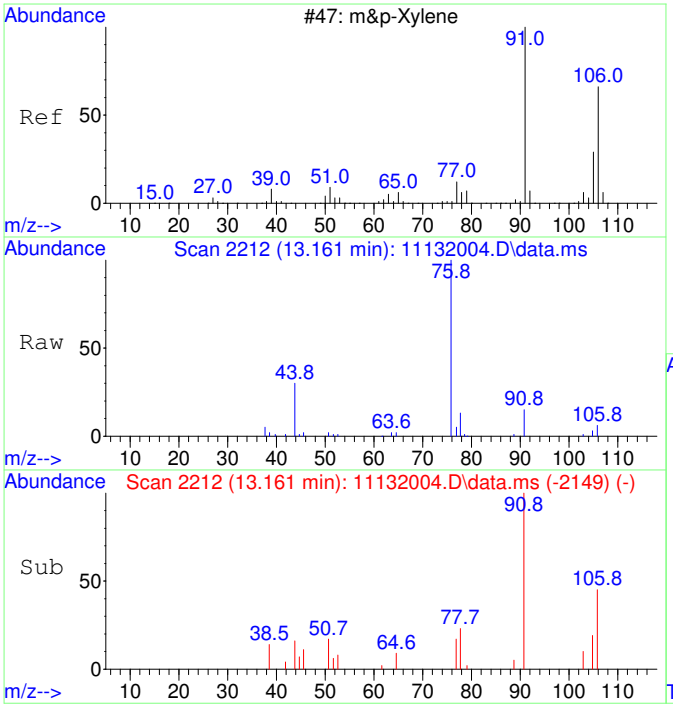


#42
Ethylbenzene SCAN
Concen: 70.13 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 7190

Ion	Ratio	Lower	Upper
91	100		
106	47.4	23.1	83.1
51	17.2	0.0	40.1

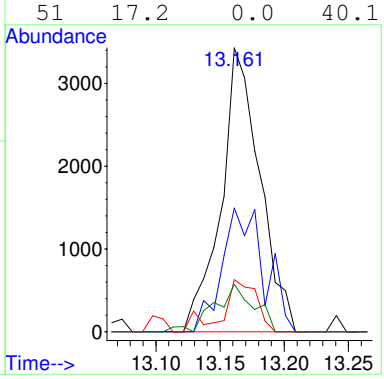


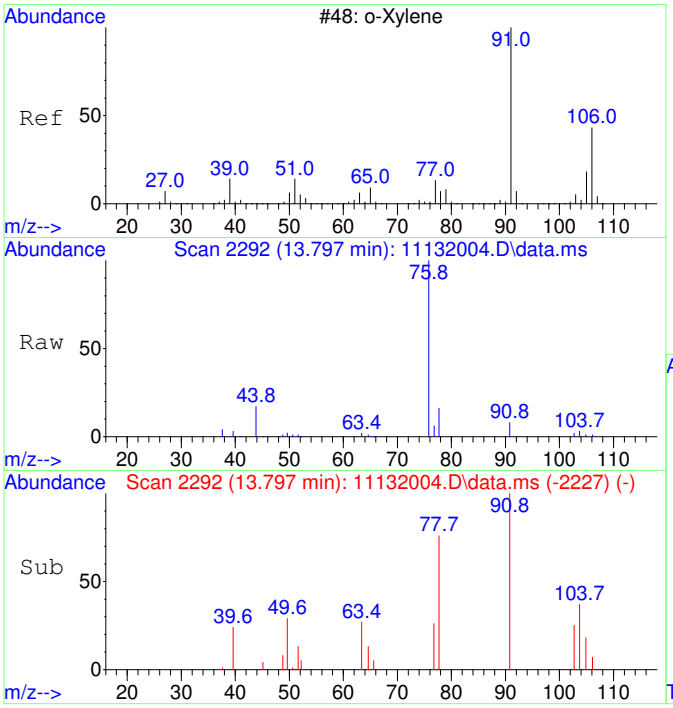


#43
m&p-Xylene SCAN
Concen: 70.13 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 7190

Ion	Ratio	Lower	Upper
91	100		
106	47.4	23.1	83.1
105	11.6	0.0	54.7
51	17.2	0.0	40.1

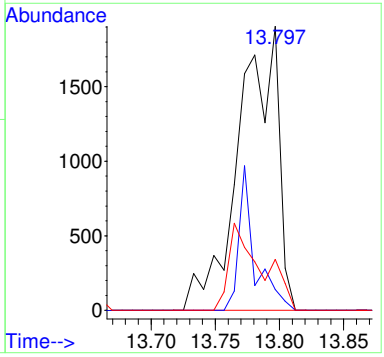


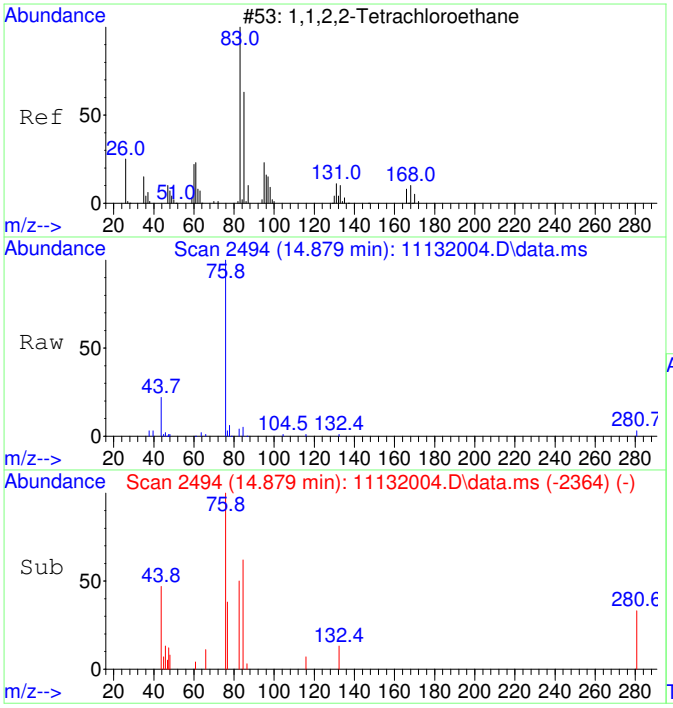


#44
o-Xylene SCAN
Concen: 74.84 ug/L
RT: 13.797 min Scan# 2292
Delta R.T. 0.016 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 4107

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

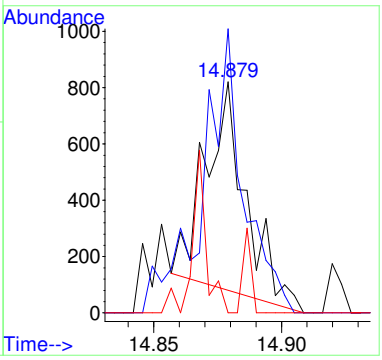


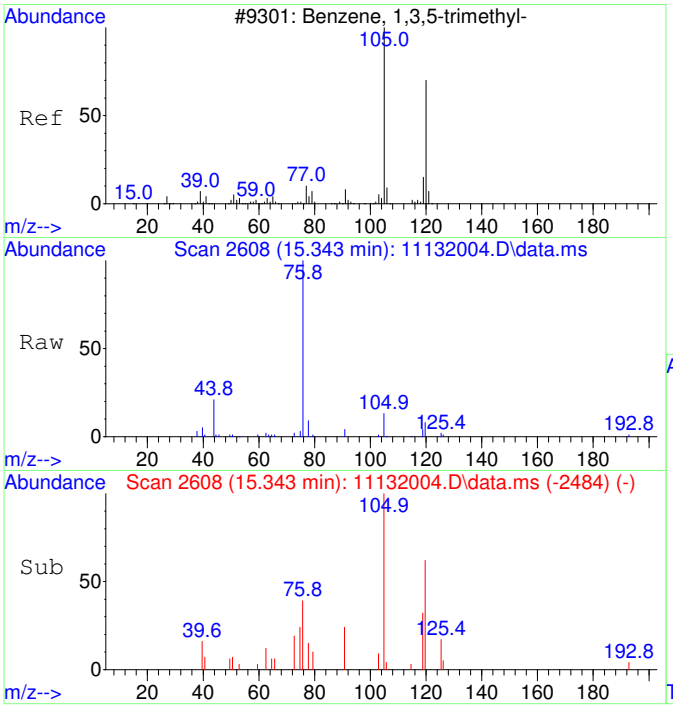


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 29.56 ug/L
RT: 14.879 min Scan# 2494
Delta R.T. 0.007 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 791

Ion	Ratio	Lower	Upper
83	100		
85	142.2	35.9	95.9#
95	8.5	0.0	47.4

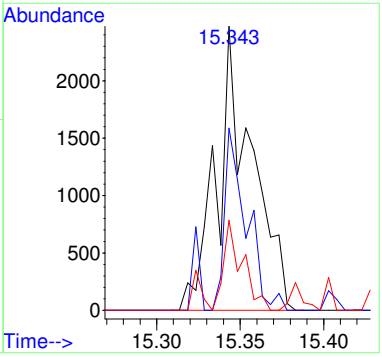


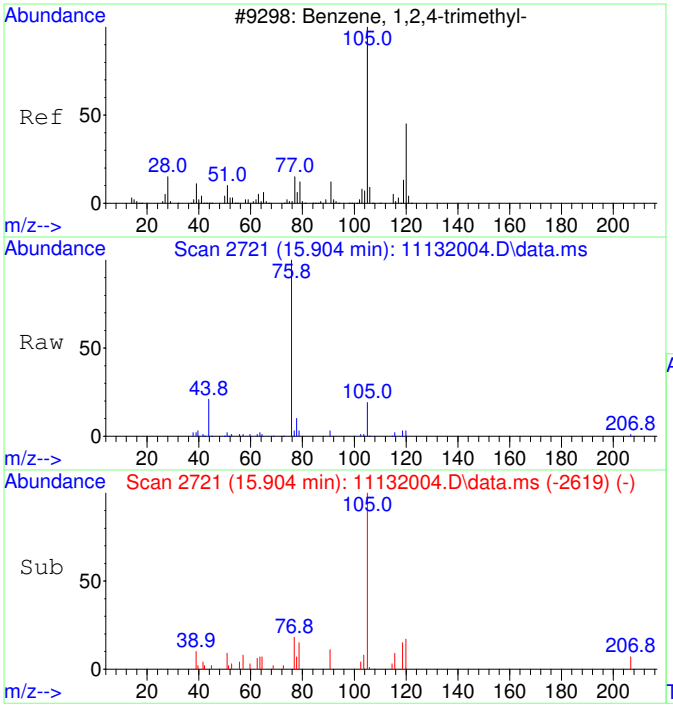


#46
1,3,5-Trimethylbenzene SCAN
Concen: 62.62 ug/L
RT: 15.343 min Scan# 2608
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 3622

Ion	Ratio	Lower	Upper
105	100		
120	39.8	18.3	78.3
119	17.0	0.0	43.1

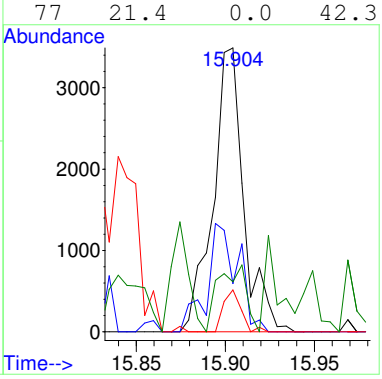


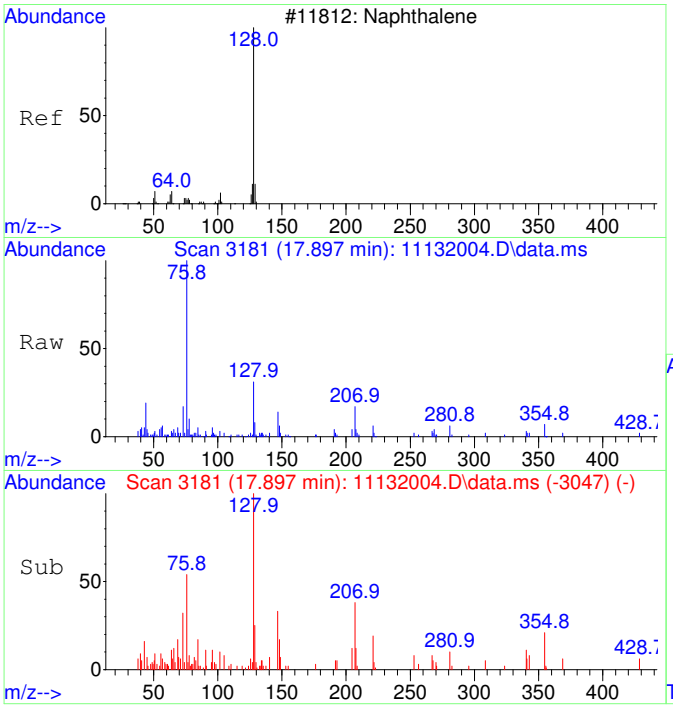


#47
1,2,4-Trimethylbenzene SCAN
Concen: 70.68 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 4183

Ion	Ratio	Lower	Upper
105	100		
120	38.7	16.9	76.9
119	8.5	0.0	41.9
77	21.4	0.0	42.3

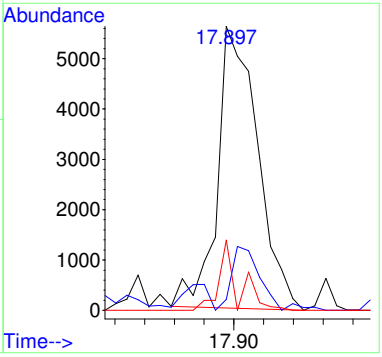




#48
Naphthalene SCAN
Concen: 58.86 ug/L
RT: 17.897 min Scan# 3181
Delta R.T. -0.004 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:128 Resp: 5271

Ion	Ratio	Lower	Upper
128	100		
127	16.4	0.0	44.0
129	12.0	0.0	40.8



2011015-01RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132007.D
Acq On : 13 Nov 2020 13:07
InstName : AG5975C
Operator : TD
Sample : 2011015-01RE1
Misc : 10X DL (180-20)
ALS Vial : 7 Sample Multiplier: 10

Quant Time: Nov 16 08:53:21 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

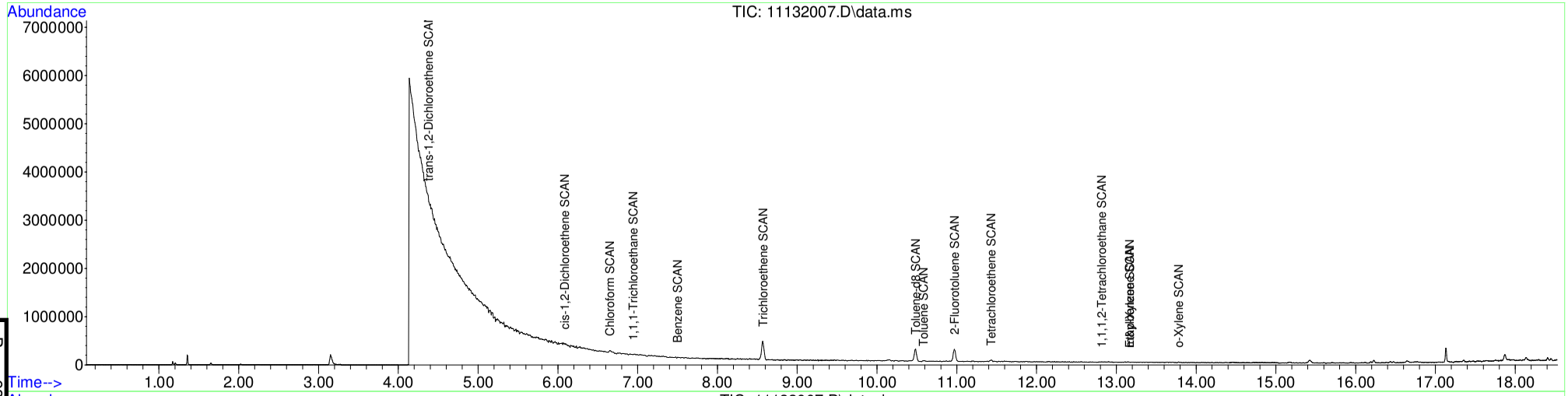
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	415480	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	348222	4281.35 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 85.63%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	2219	133.75 ug/L	69
3] trans-1,2-Dichloroethene	4.369	61	3342	174.35 ug/L	92
4] 1,1-Dichloroethane	5.079	63	1685	70.62 ug/L	67
5] cis-1,2-Dichloroethene	6.088	61	60231	2391.35 ug/L	99
6] Chloroform	6.652	83	51105	1982.36 ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1973	70.47 ug/L	99
9] Benzene	7.503	78	4653	65.91 ug/L #	1
11] Trichloroethene	8.569	130	272122	12803.07 ug/L RPT	93
13] Toluene	10.582	91	14653	141.31 ug/L	98
15] Tetrachloroethene	11.432	166	16268	542.11 ug/L	99
19] m&p-Xylene	13.162	91	4353	44.13 ug/L	92
25) 2-Fluorotoluene SCAN	10.969	109	201529	4975.82 ug/L	97
27) trans-1,2-Dichloroethe...	4.374	61	1889	177.48 ug/L	77
29) cis-1,2-Dichloroethene...	6.086	61	35897	2720.00 ug/L #	81
30) Chloroform SCAN	6.650	83	31244	2182.69 ug/L	92
31) 1,1,1-Trichloroethane ...	6.942	97	727	55.73 ug/L #	19
33) Benzene SCAN	7.502	78	8190	228.03 ug/L	97
35) Trichloroethene SCAN	8.568	130	134008	13577.21 ug/L	87
36) Toluene-d8 SCAN	10.486	98	183582	4634.81 ug/L	96
37) Toluene SCAN	10.580	91	8144	160.55 ug/L	89
39) Tetrachloroethene SCAN	11.430	166	7683	630.44 ug/L	80
41) 1,1,1,2-Tetrachloroeth...	12.820	131	402	31.34 ug/L #	45
42) Ethylbenzene SCAN	13.161	91	2484	26.88 ug/L	82
43) m&p-Xylene SCAN	13.161	91	2484	26.88 ug/L	80
44) o-Xylene SCAN	13.781	91	1552	31.37 ug/L #	55

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132007.D
Acq On : 13 Nov 2020 13:07
InstName : AG5975C
Operator : TD
Sample : 2011015-01RE1
Misc : 10X DL (180-20)
ALS Vial : 7 Sample Multiplier: 10

Quant Time: Nov 16 08:53:21 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



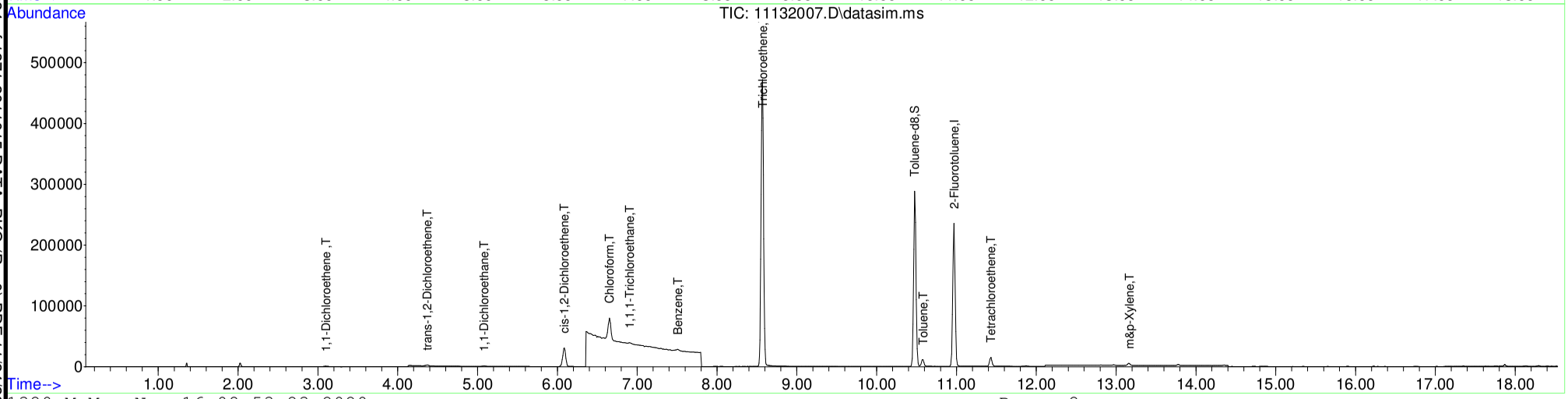
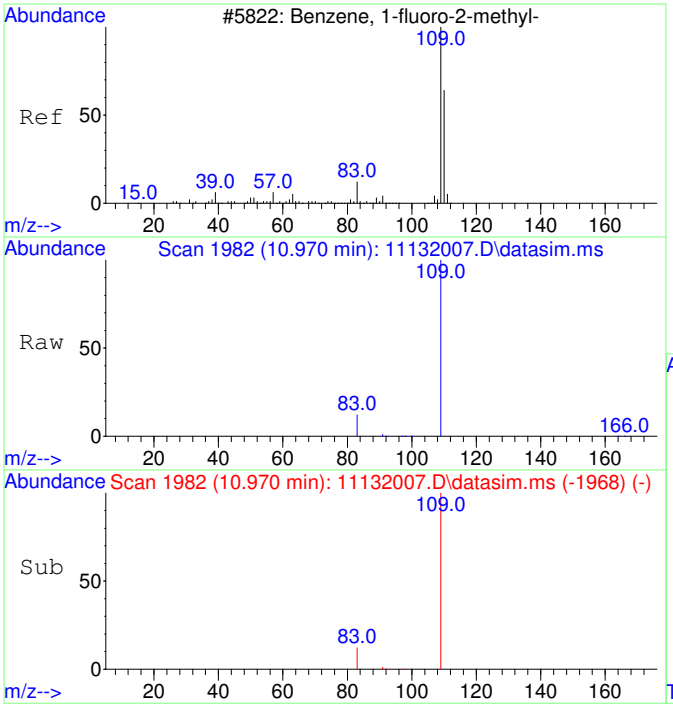


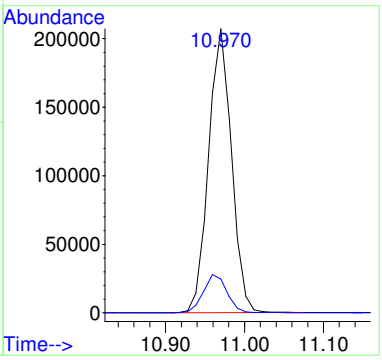
Table of Contents

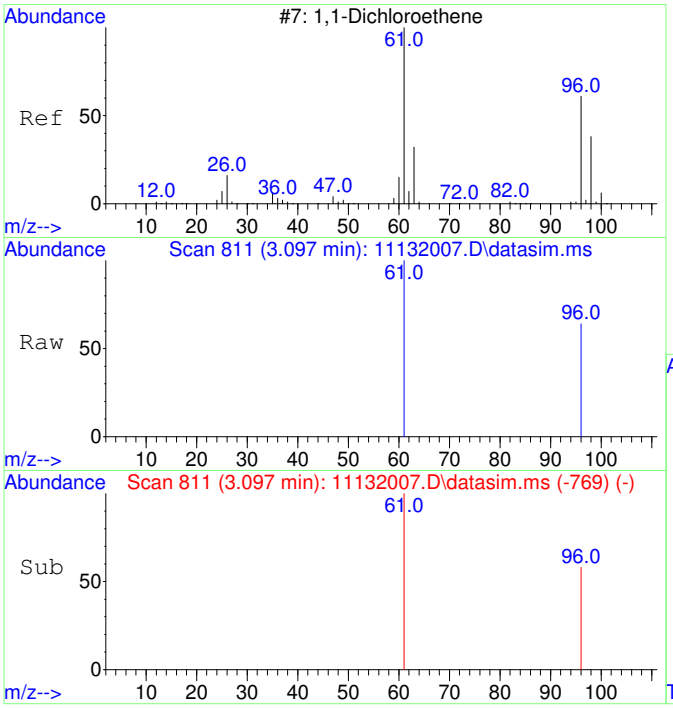


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion:109 Resp: 415480

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

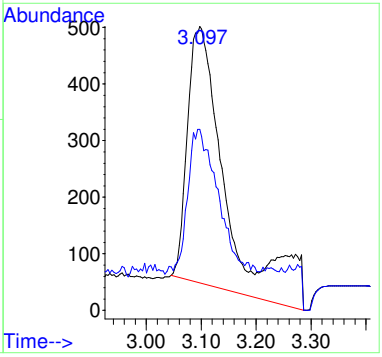


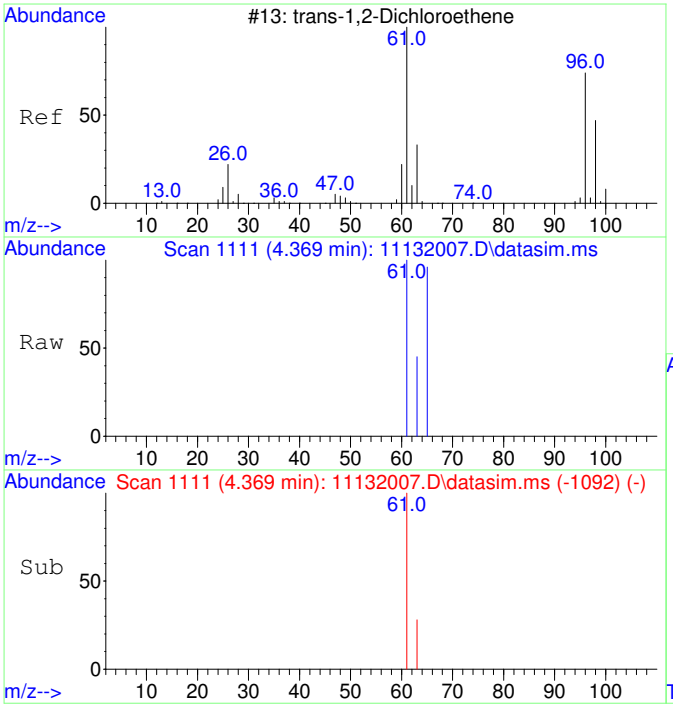


#2
1,1-Dichloroethene
Concen: 133.75 ug/L
RT: 3.097 min Scan# 811
Delta R.T. 0.007 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 61 Resp: 2219

Ion	Ratio	Lower	Upper
61	100		
96	42.0	37.2	97.2

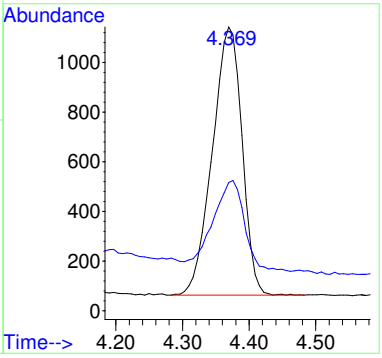


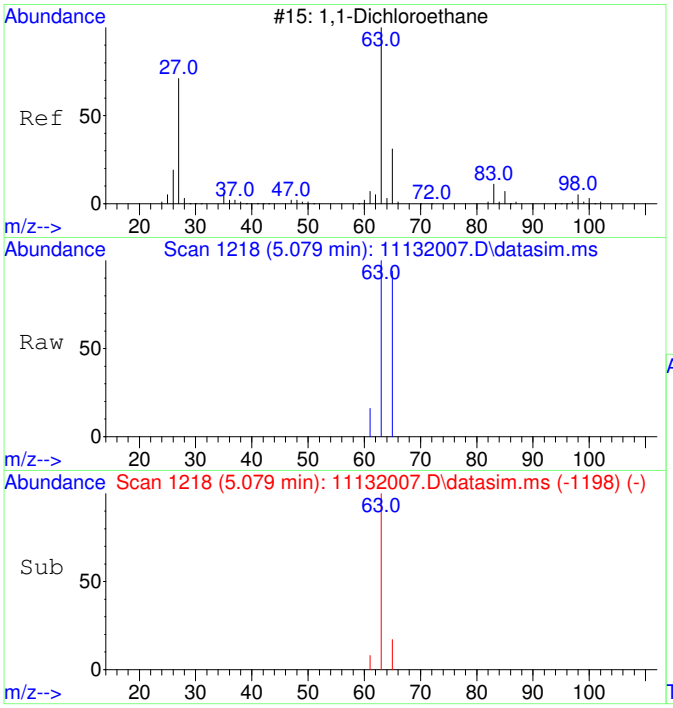


#3
trans-1,2-Dichloroethene
Concen: 174.35 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. -0.027 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 61 Resp: 3342

Ion	Ratio	Lower	Upper
61	100		
63	37.0	2.4	62.4

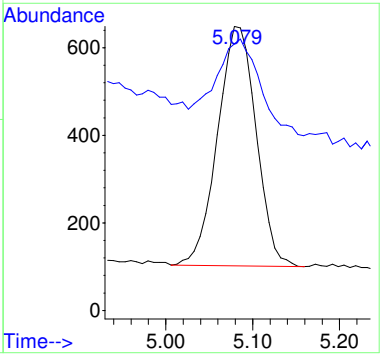


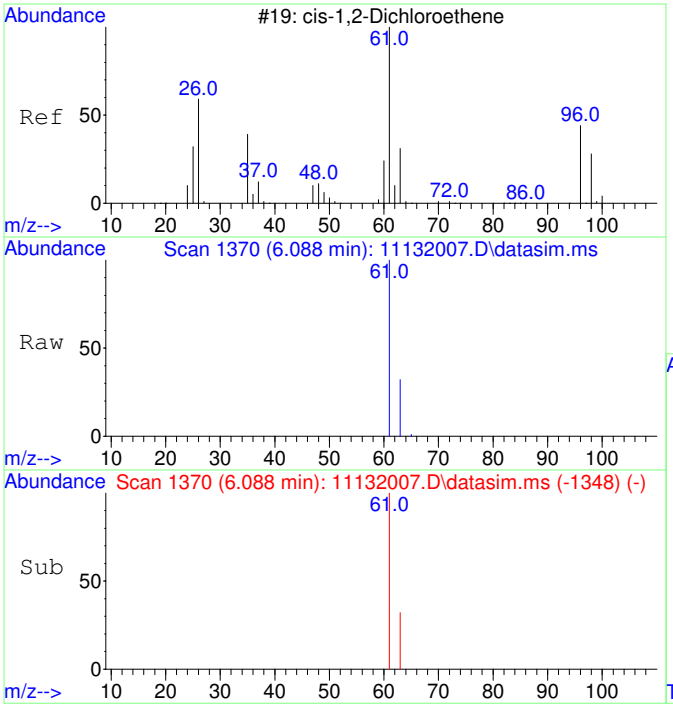


#4
1,1-Dichloroethane
Concen: 70.62 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 63 Resp: 1685

Ion	Ratio	Lower	Upper
63	100		
65	50.3	1.8	61.8

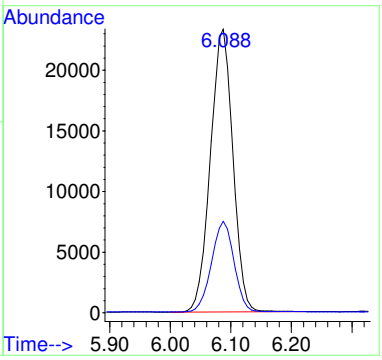


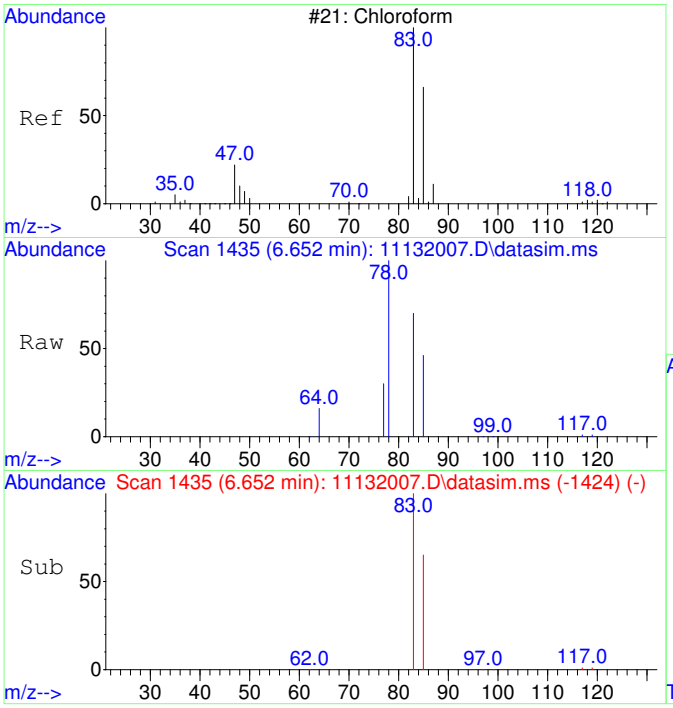


#5
cis-1,2-Dichloroethene
Concen: 2391.35 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 61 Resp: 60231

Ion	Ratio	Lower	Upper
61	100		
63	31.9	2.5	62.5

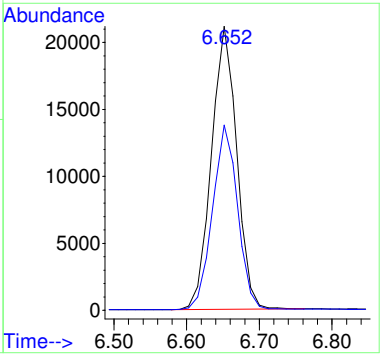


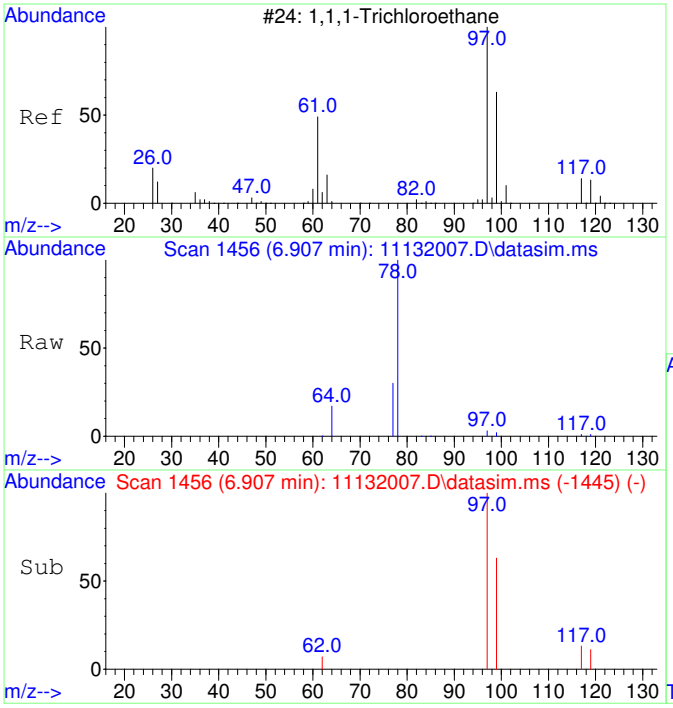


#6
Chloroform
Concen: 1982.36 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 83 Resp: 51105

Ion	Ratio	Lower	Upper
83	100		
85	64.4	35.1	95.1

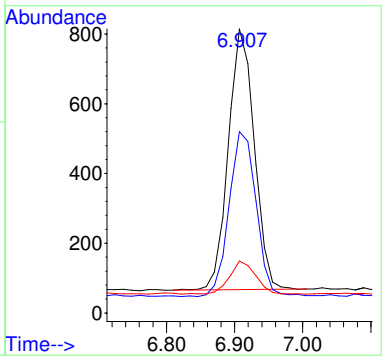


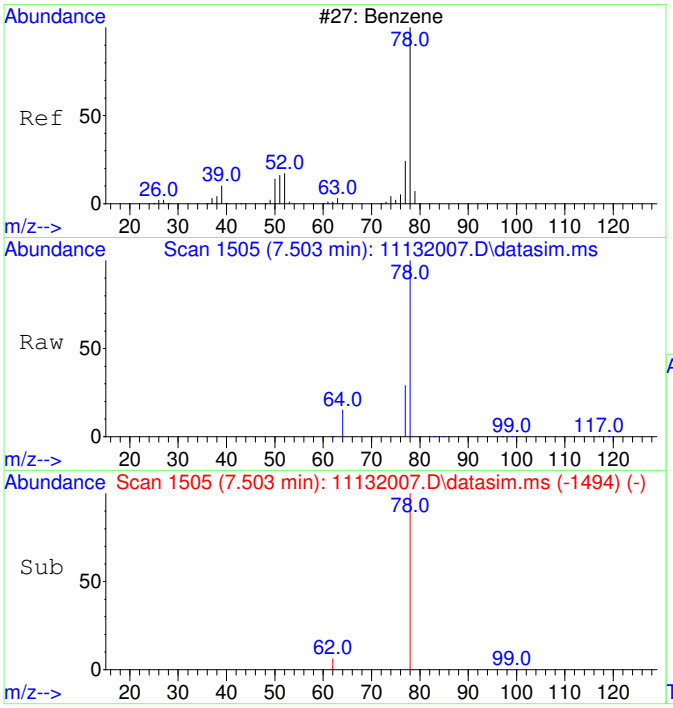


#7
1,1,1-Trichloroethane
Concen: 70.47 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 97 Resp: 1973

Ion	Ratio	Lower	Upper
97	100		
99	65.4	34.6	94.6
117	12.9	0.0	43.2

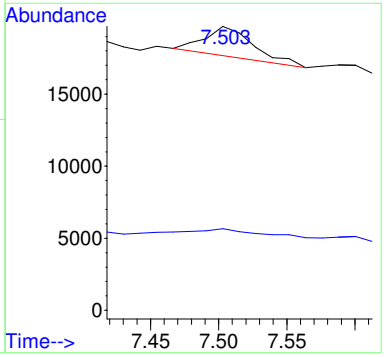


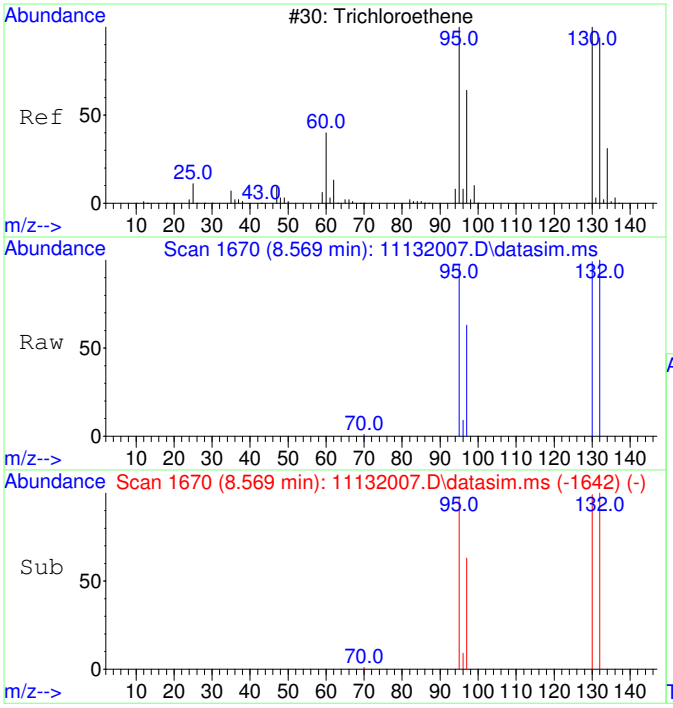


#9
Benzene
Concen: 65.91 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 78 Resp: 4653

Ion	Ratio	Lower	Upper
78	100		
77	115.9	0.0	53.2#

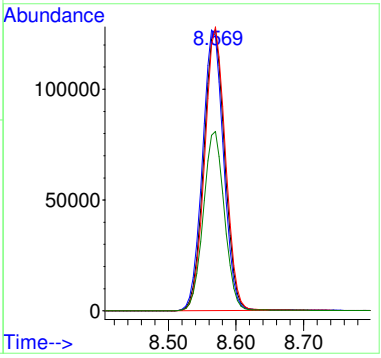


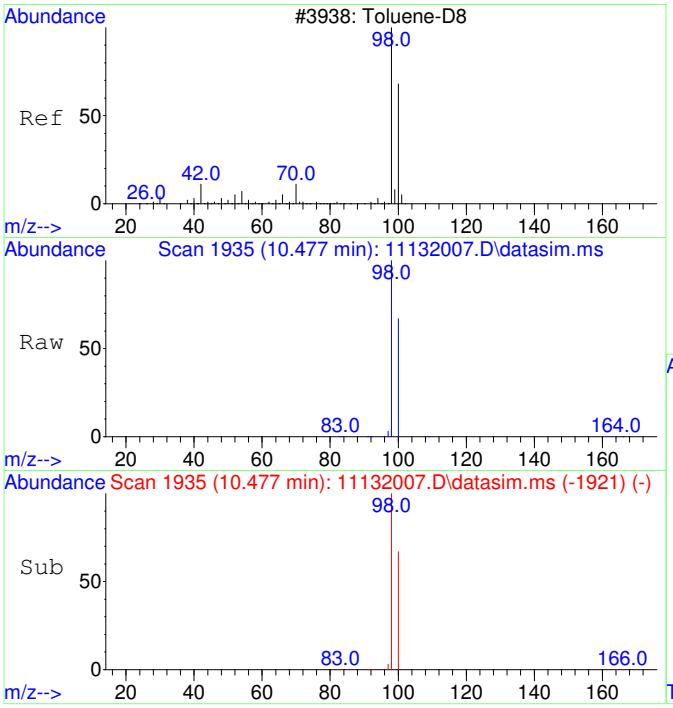


#11
Trichloroethene
Concen: 12803.07 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion:130 Resp: 272122

Ion	Ratio	Lower	Upper
130	100		
95	100.3	60.7	120.7
132	99.9	76.0	116.0
97	64.1	38.6	78.6

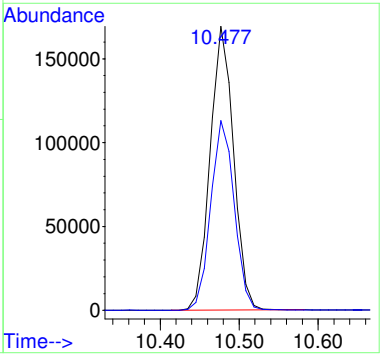


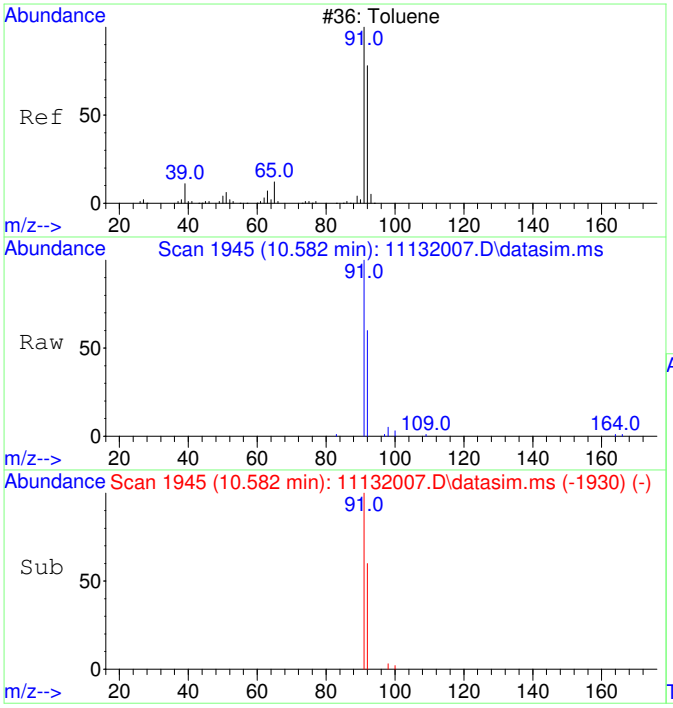


#12
Toluene-d8
Concen: 4281.35 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 98 Resp: 348222

Ion	Ratio	Lower	Upper
98	100		
100	66.9	37.1	97.1

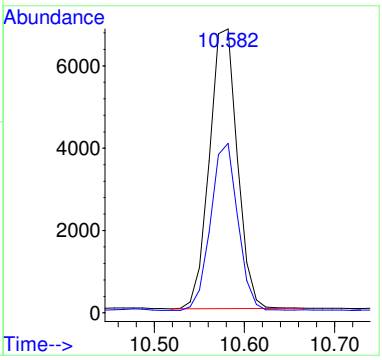


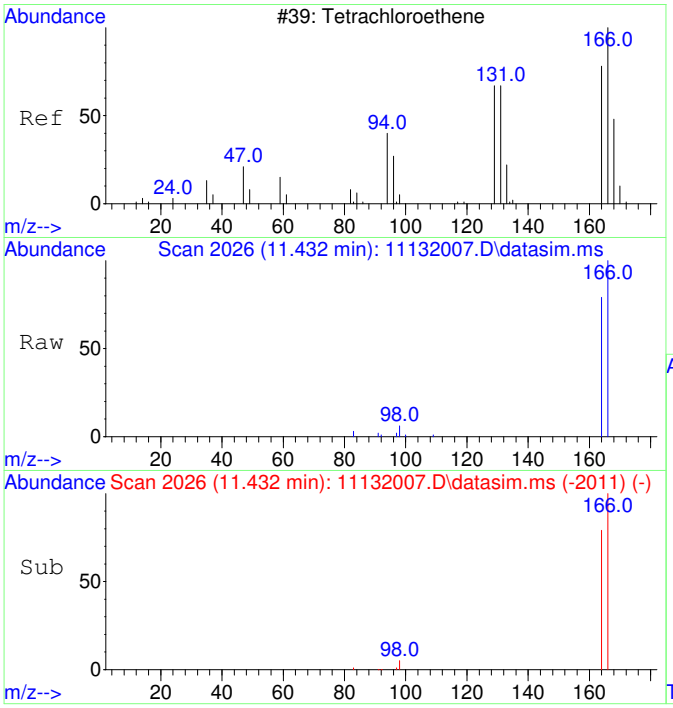


#13
Toluene
Concen: 141.31 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 91 Resp: 14653

Ion	Ratio	Lower	Upper
91	100		
92	58.1	29.9	89.9

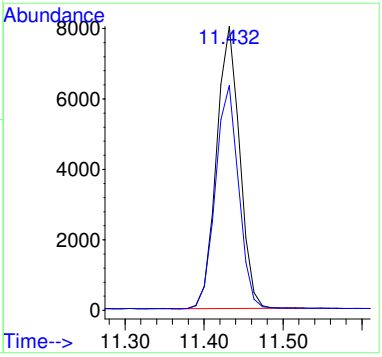


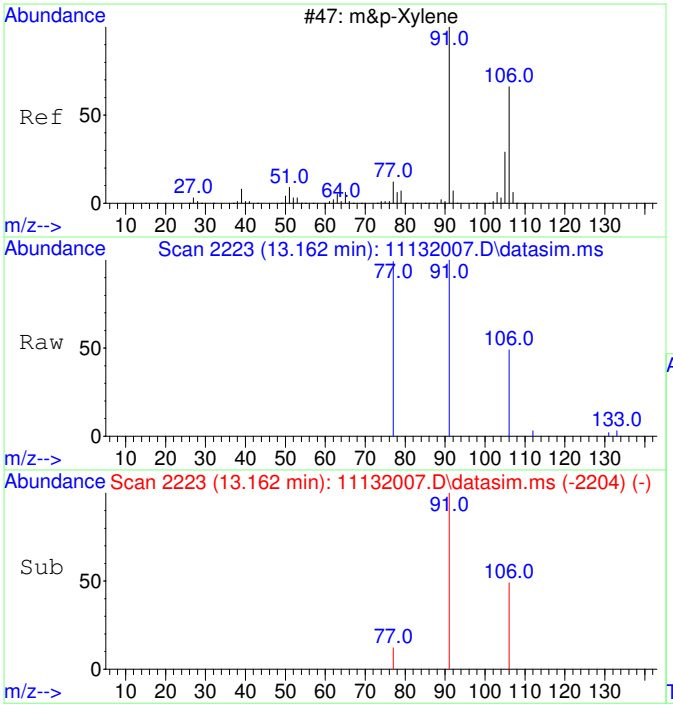


#15
Tetrachloroethene
Concen: 542.11 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion:166 Resp: 16268

Ion	Ratio	Lower	Upper
166	100		
164	79.0	47.8	107.8

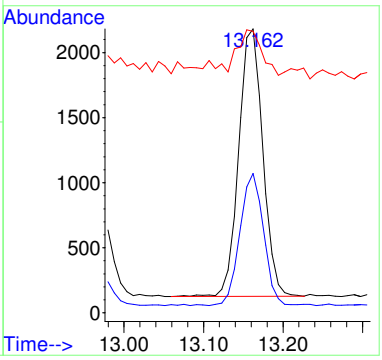


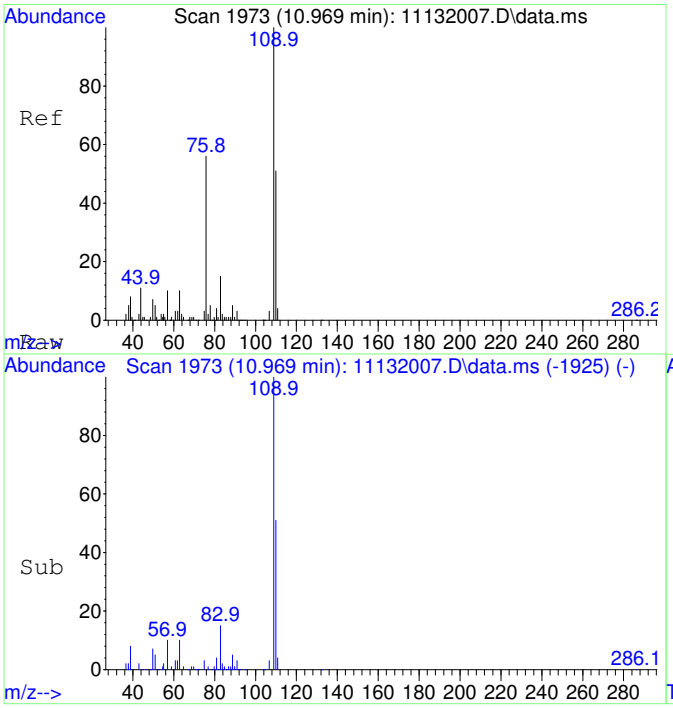


#19
m&p-Xylene
Concen: 44.13 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 91 Resp: 4353

Ion	Ratio	Lower	Upper
91	100		
106	47.8	22.2	82.2
77	17.8	0.0	42.4

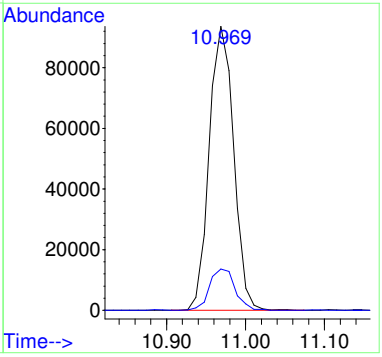


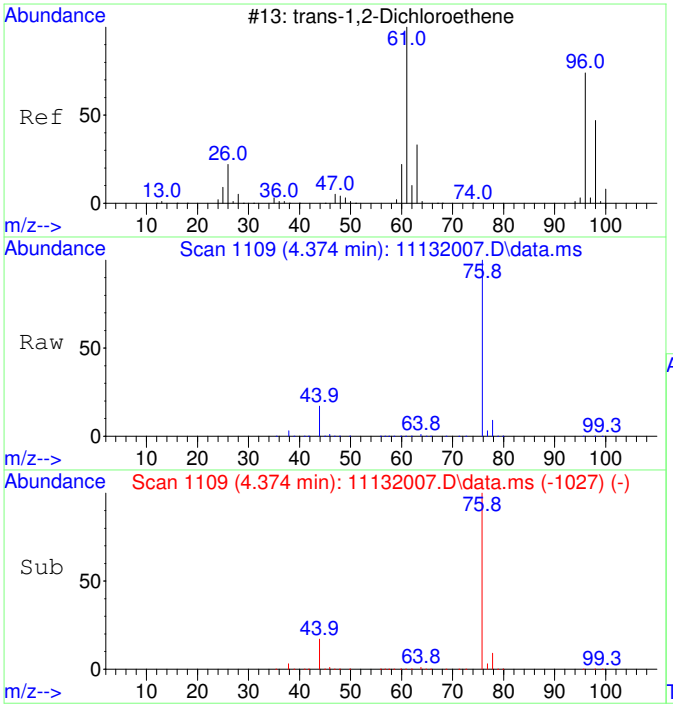


#25
2-Fluorotoluene SCAN
Concen: 4975.82 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion:109 Resp: 201529

Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	43.8

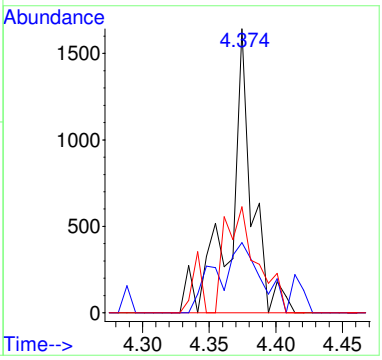


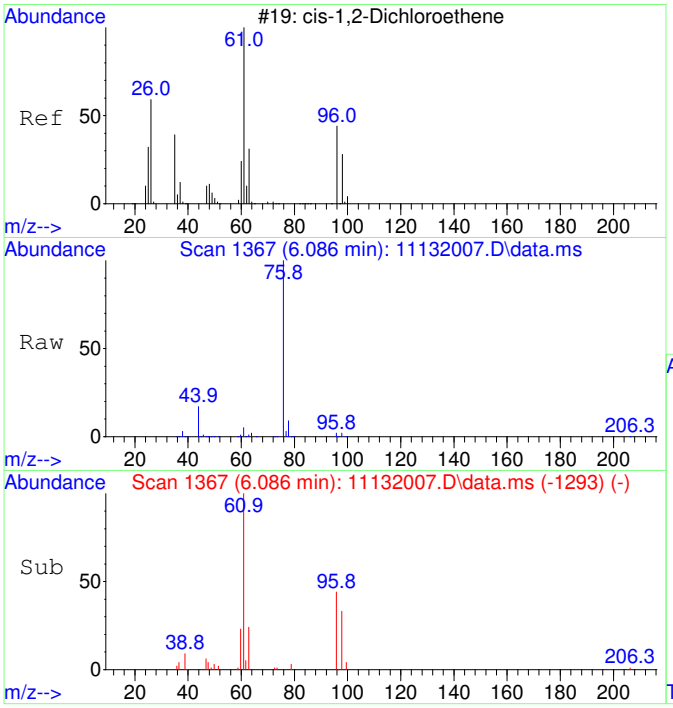


#27
trans-1,2-Dichloroethene SCAN
Concen: 177.48 ug/L
RT: 4.374 min Scan# 1109
Delta R.T. -0.027 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 61 Resp: 1889

Ion	Ratio	Lower	Upper
61	100		
96	49.3	49.0	109.0
98	54.3	20.5	80.5

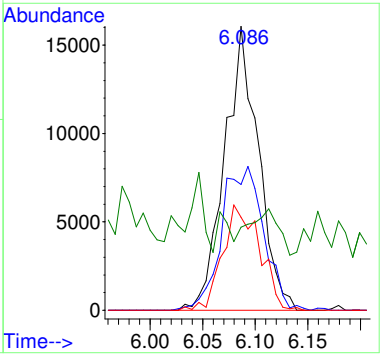


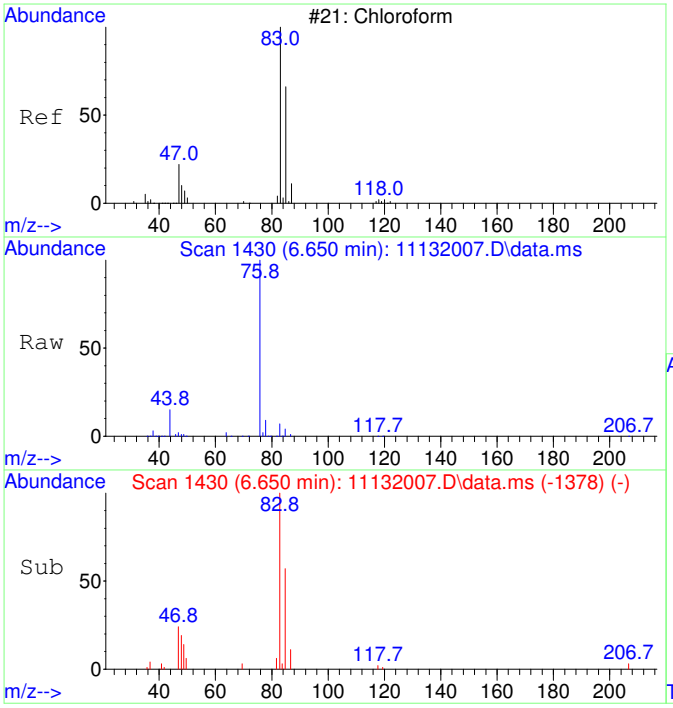


#29
cis-1,2-Dichloroethene SCAN
Concen: 2720.00 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 61 Resp: 35897

Ion	Ratio	Lower	Upper
61	100		
96	62.9	39.9	99.9
98	40.6	13.5	73.5
64	0.0	4.5	64.5#

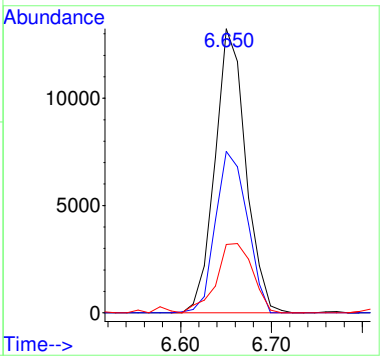


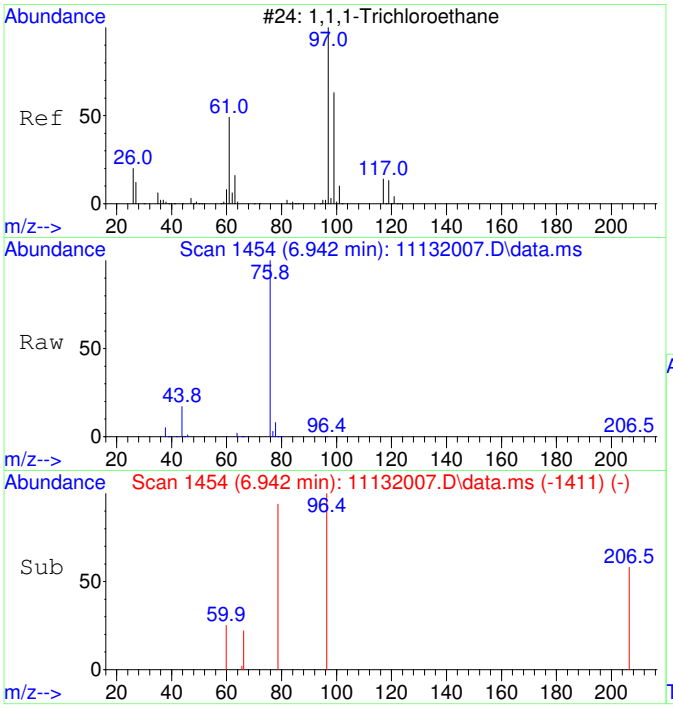


#30
Chloroform SCAN
Concen: 2182.69 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 83 Resp: 31244

Ion	Ratio	Lower	Upper
83	100		
85	58.7	34.6	94.6
47	28.8	0.0	53.4

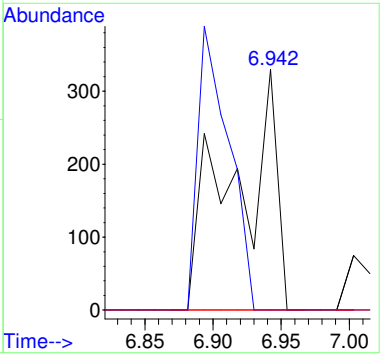


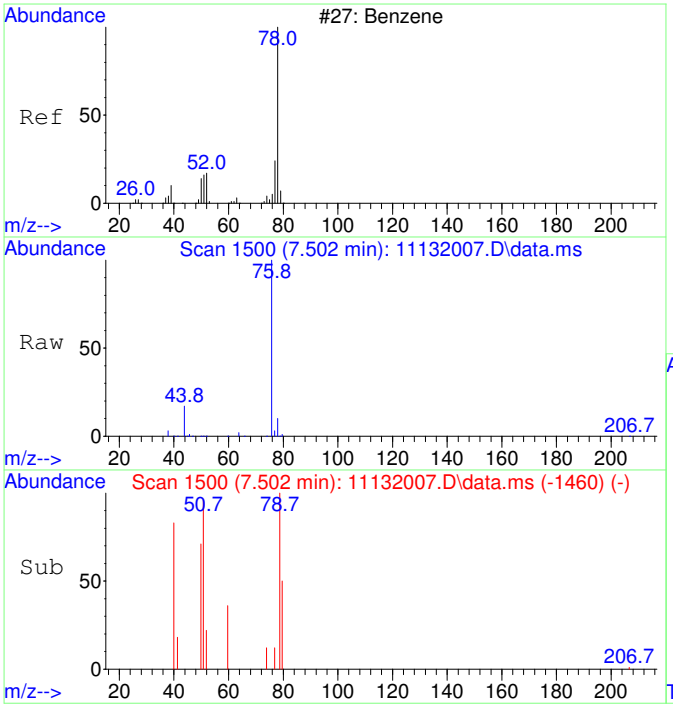


#31
1,1,1-Trichloroethane SCAN
Concen: 55.73 ug/L
RT: 6.942 min Scan# 1454
Delta R.T. 0.024 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 97 Resp: 727

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

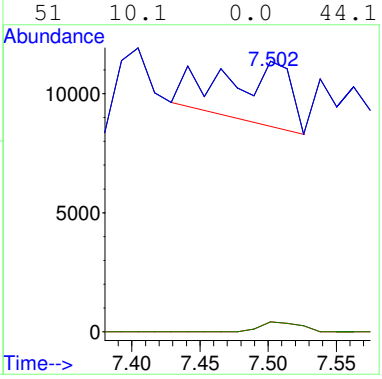


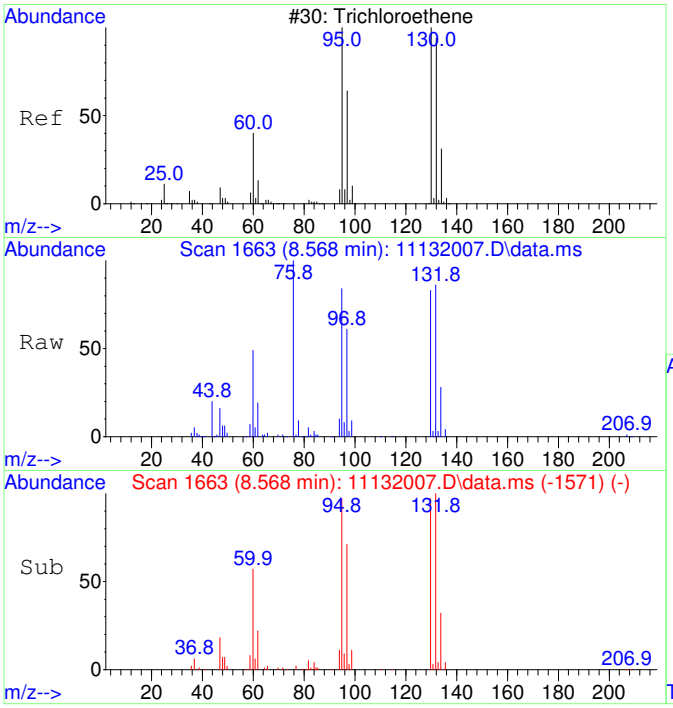


#33
Benzene SCAN
Concen: 228.03 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 78 Resp: 8190

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	10.1	0.0	47.9
51	10.1	0.0	44.1

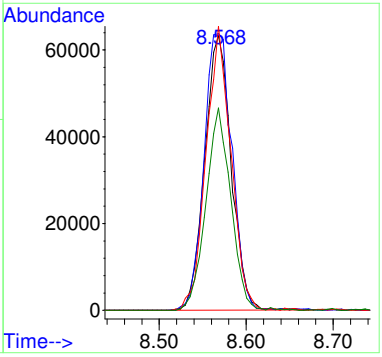


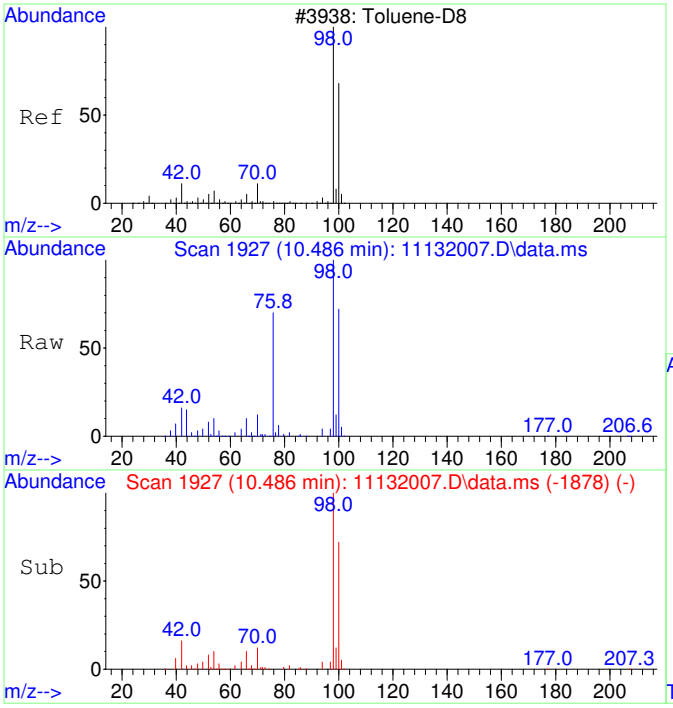


#35
Trichloroethene SCAN
Concen: 13577.21 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion:130 Resp: 134008

Ion	Ratio	Lower	Upper
130	100		
95	105.8	60.5	120.5
132	96.9	59.6	119.6
97	68.8	28.2	88.2

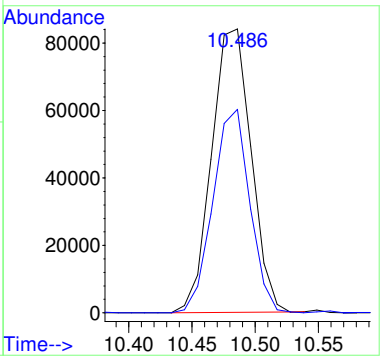


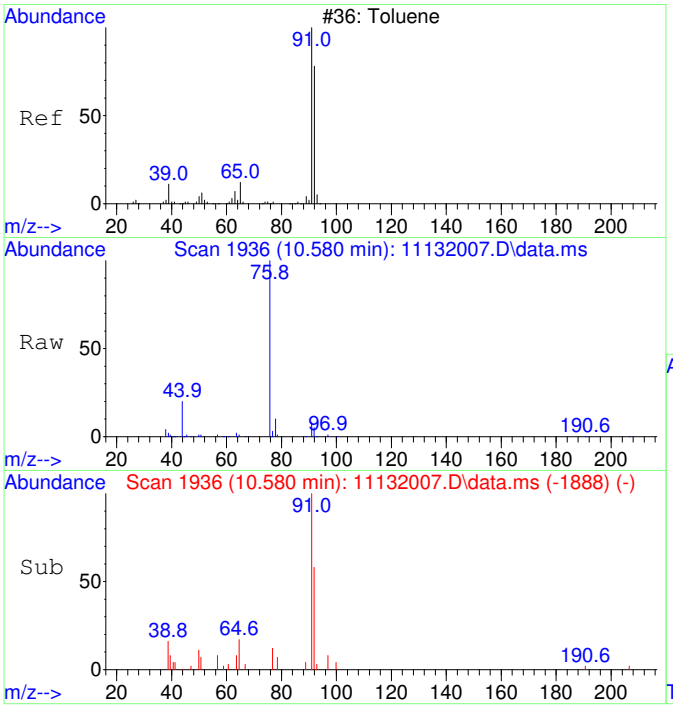


#36
Toluene-d8 SCAN
Concen: 4634.81 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 98 Resp: 183582

Ion	Ratio	Lower	Upper
98	100		
100	66.9	40.0	100.0

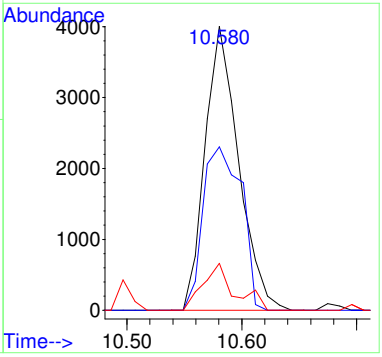


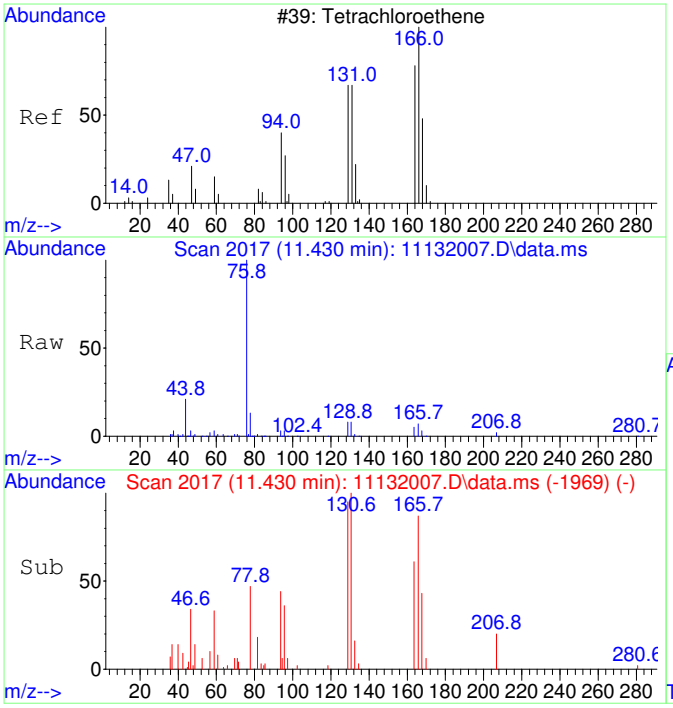


#37
Toluene SCAN
Concen: 160.55 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 91 Resp: 8144

Ion	Ratio	Lower	Upper
91	100		
92	66.3	28.3	88.3
65	15.5	0.0	41.0

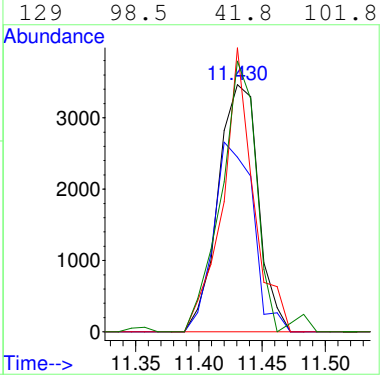


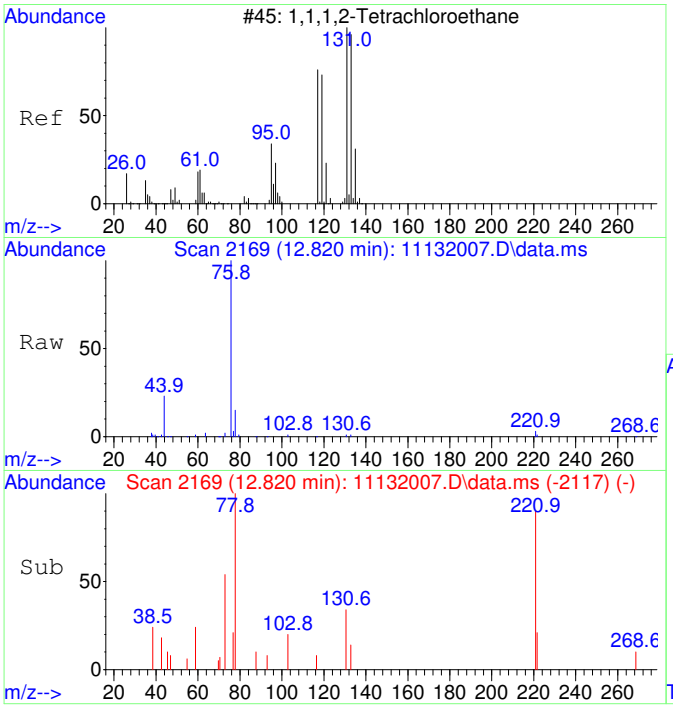


#39
Tetrachloroethene SCAN
Concen: 630.44 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion:166 Resp: 7683

Ion	Ratio	Lower	Upper
166	100		
164	75.0	50.9	110.9
131	87.8	38.7	98.7
129	98.5	41.8	101.8

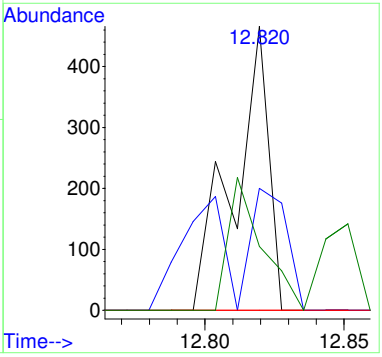


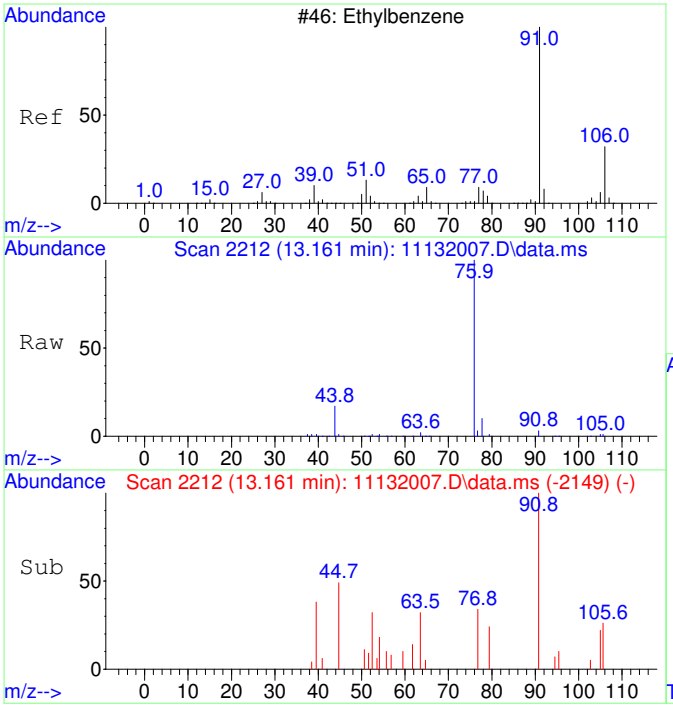


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 31.34 ug/L
RT: 12.820 min Scan# 2169
Delta R.T. -0.087 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion:131 Resp: 402

Ion	Ratio	Lower	Upper
131	100		
133	44.5	66.9	126.9#
119	0.0	40.4	100.4#
117	46.0	35.1	95.1

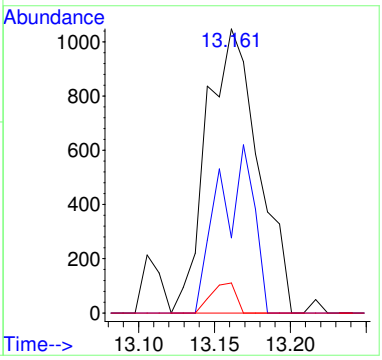


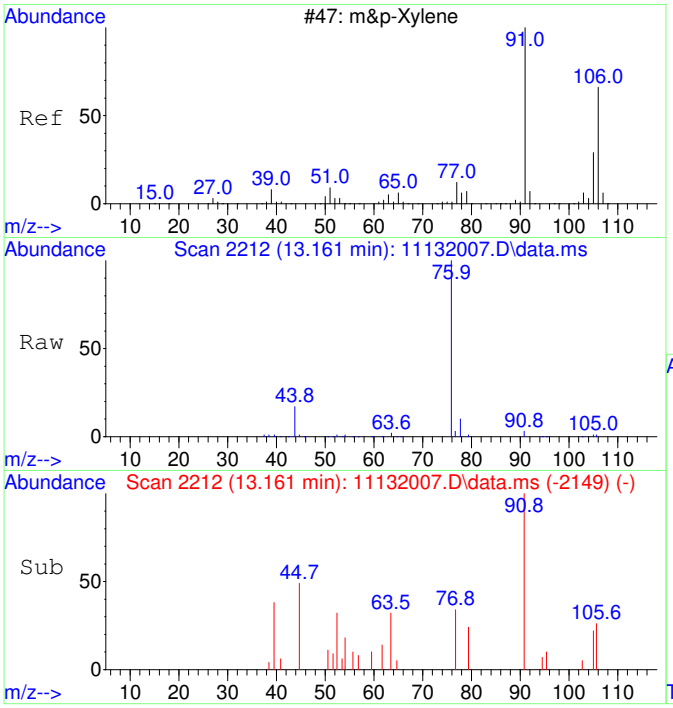


#42
Ethylbenzene SCAN
Concen: 26.88 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 91 Resp: 2484

Ion	Ratio	Lower	Upper
91	100		
106	39.9	23.1	83.1
51	5.1	0.0	40.1

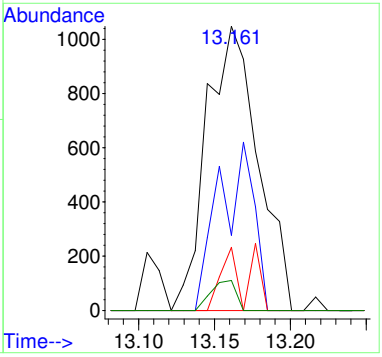


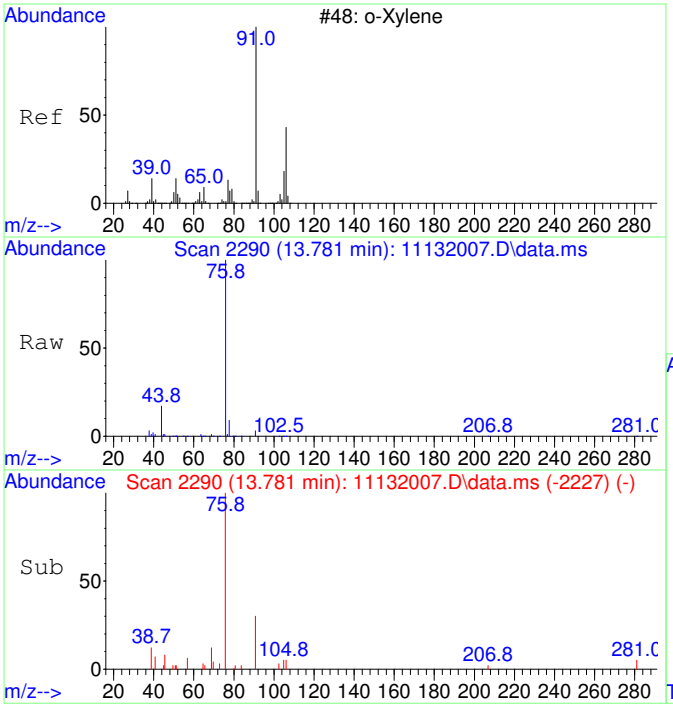


#43
m&p-Xylene SCAN
Concen: 26.88 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. 0.000 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 91 Resp: 2484

Ion	Ratio	Lower	Upper
91	100		
106	39.9	23.1	83.1
105	11.6	0.0	54.7
51	5.1	0.0	40.1

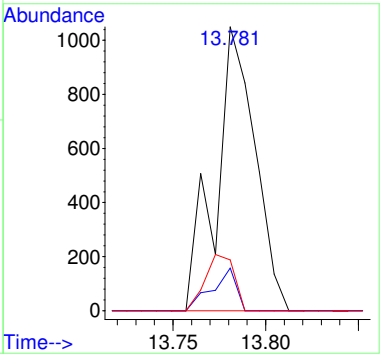




#44
o-Xylene SCAN
Concen: 31.37 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. 0.000 min
Lab File: 11132007.D
Acq: 13 Nov 2020 13:07

Tgt Ion: 91 Resp: 1552

Ion	Ratio	Lower	Upper
91	100		
106	9.2	18.0	78.0#
105	14.5	0.0	56.6



2011015-02RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132008.D
Acq On : 13 Nov 2020 13:31
InstName : AG5975C
Operator : TD
Sample : 2011015-02RE1
Misc : 10X DL (180-20)
ALS Vial : 8 Sample Multiplier: 10

Quant Time: Nov 16 08:53:28 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

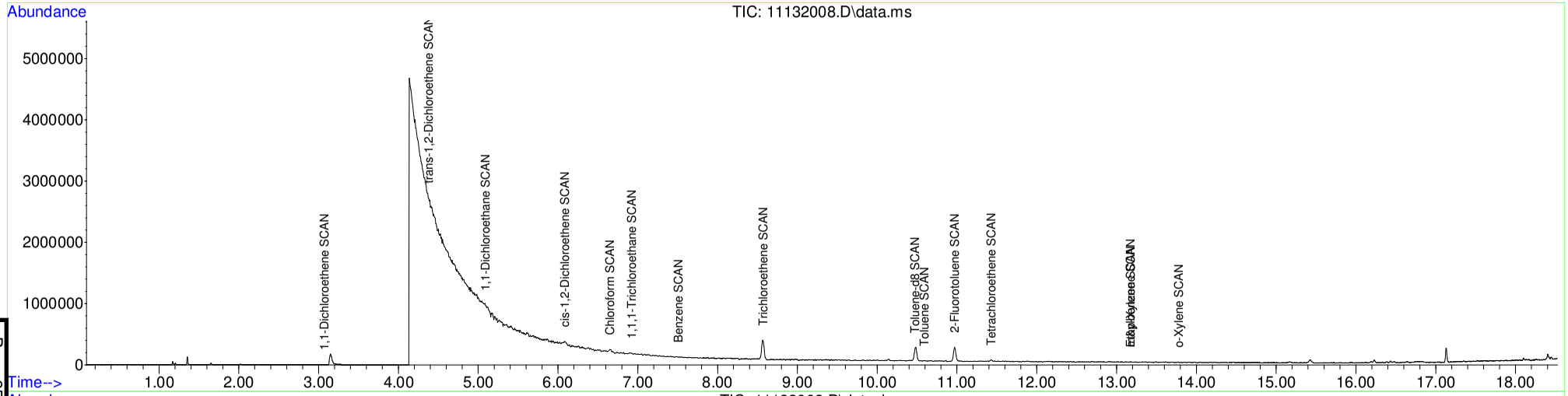
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	390603	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	328461	4295.59 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	85.91%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.086	61	2055	131.75 ug/L	70
3] trans-1,2-Dichloroethene	4.363	61	3015	167.31 ug/L	95
4] 1,1-Dichloroethane	5.079	63	1596	71.15 ug/L	54
5] cis-1,2-Dichloroethene	6.081	61	54402	2297.48 ug/L	99
6] Chloroform	6.652	83	47641	1965.69 ug/L	100
7] 1,1,1-Trichloroethane	6.907	97	1765	67.06 ug/L	99
9] Benzene	7.503	78	6013	90.60 ug/L	55
11] Trichloroethene	8.569	130	233050	11663.10 ug/L RPT	93
13] Toluene	10.582	91	12328	126.46 ug/L	99
15] Tetrachloroethene	11.432	166	13641	483.52 ug/L	99
19] m&p-Xylene	13.162	91	3489	37.62 ug/L	93
25) 2-Fluorotoluene SCAN	10.969	109	192150	5046.41 ug/L	99
26) 1,1-Dichloroethene SCAN	3.074	61	168	20.78 ug/L	90
27) trans-1,2-Dichloroethe...	4.375	61	1236	123.52 ug/L #	52
28) 1,1-Dichloroethane SCAN	5.091	63	321	27.72 ug/L #	1
29) cis-1,2-Dichloroethene...	6.080	61	30850	2486.45 ug/L #	81
30) Chloroform SCAN	6.650	83	28671	2130.50 ug/L	92
31) 1,1,1-Trichloroethane ...	6.918	97	1006	82.03 ug/L #	31
33) Benzene SCAN	7.502	78	9018	267.07 ug/L	93
35) Trichloroethene SCAN	8.568	130	108688	11713.21 ug/L	82
36) Toluene-d8 SCAN	10.476	98	173206	4651.36 ug/L	96
37) Toluene SCAN	10.591	91	7074	148.34 ug/L #	30
39) Tetrachloroethene SCAN	11.430	166	6546	571.35 ug/L	89
42) Ethylbenzene SCAN	13.169	91	1830	21.06 ug/L	75
43) m&p-Xylene SCAN	13.169	91	1830	21.06 ug/L #	69
44) o-Xylene SCAN	13.773	91	1188	25.55 ug/L #	36

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132008.D
Acq On : 13 Nov 2020 13:31
InstName : AG5975C
Operator : TD
Sample : 2011015-02RE1
Misc : 10X DL (180-20)
ALS Vial : 8 Sample Multiplier: 10

Quant Time: Nov 16 08:53:28 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



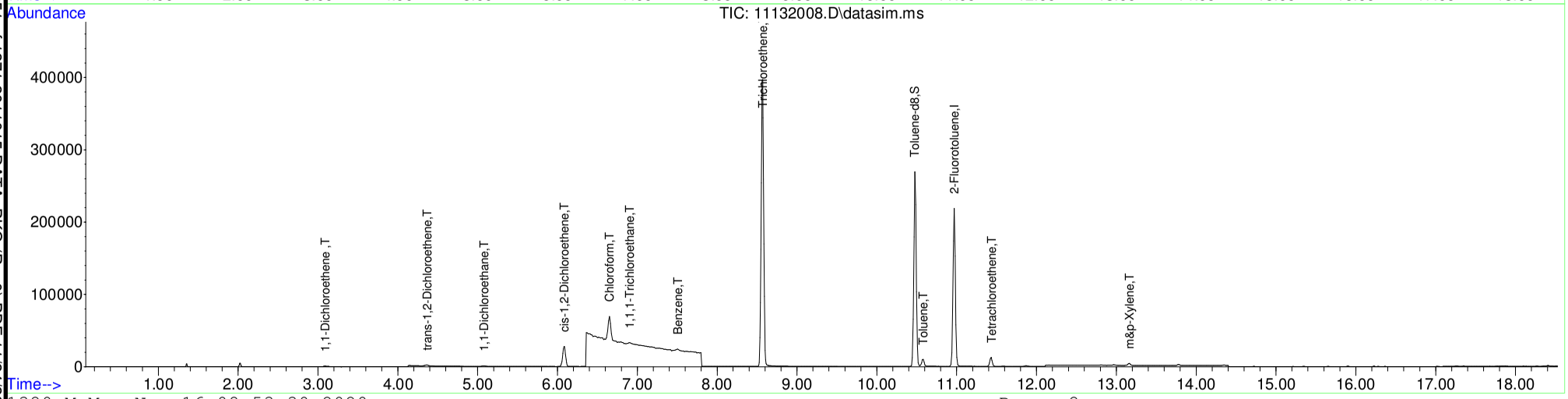
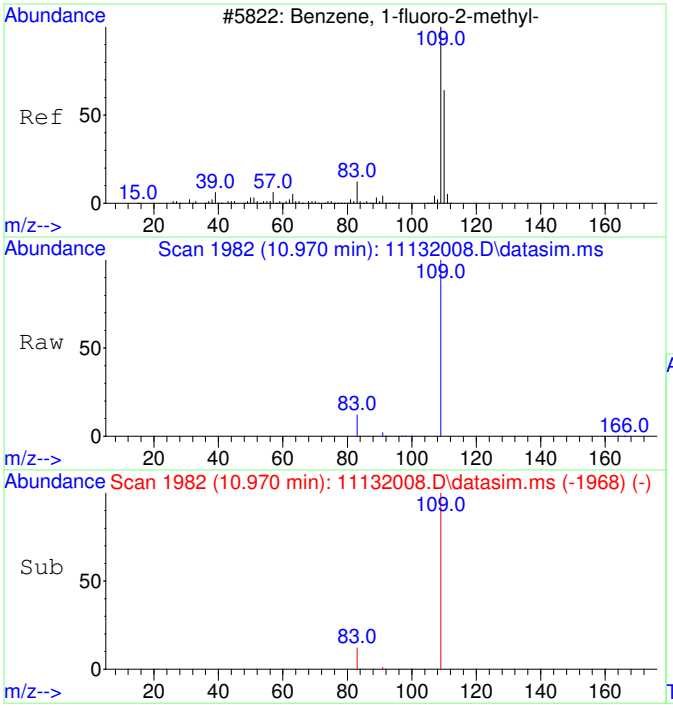


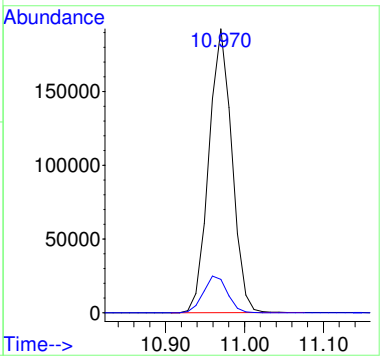
Table of Contents

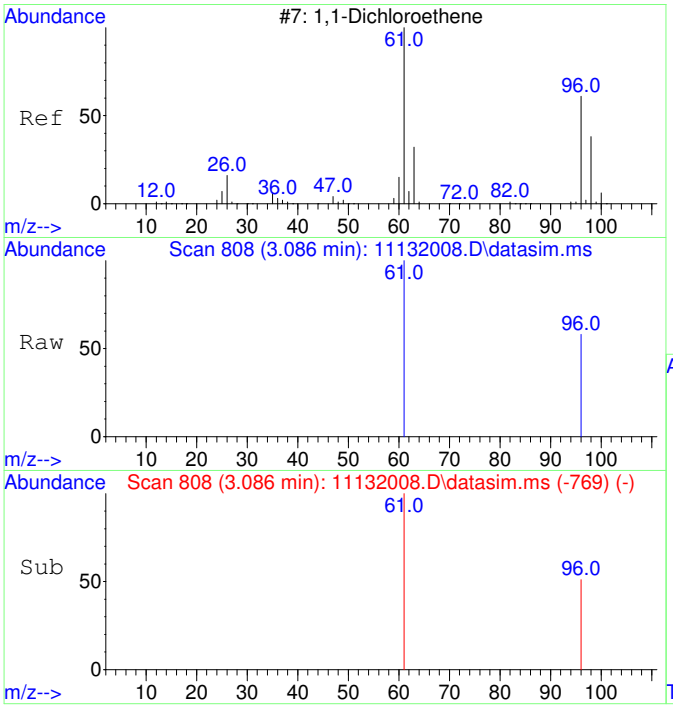


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion:109 Resp: 390603

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

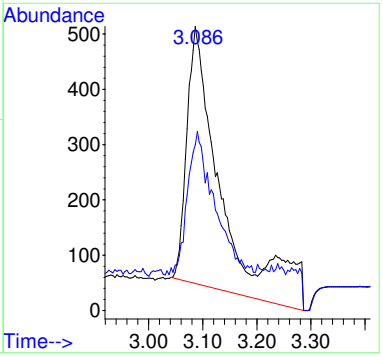


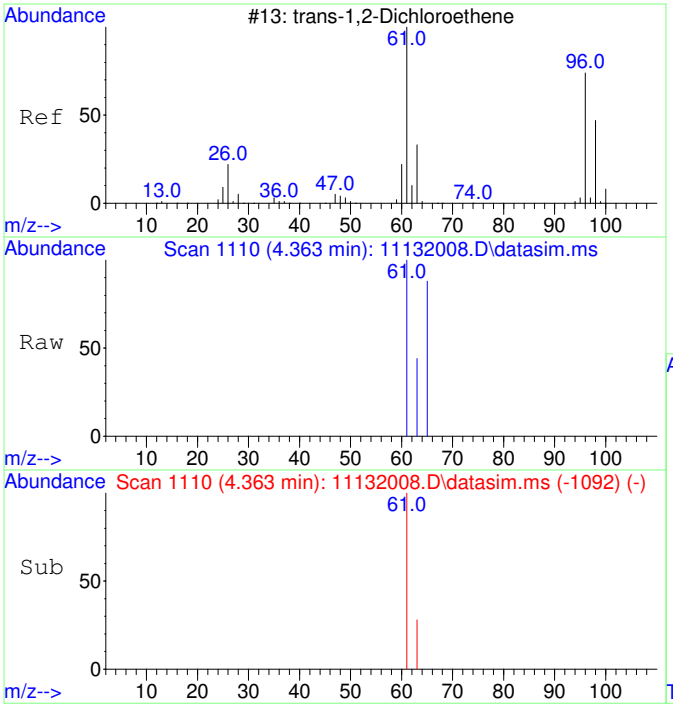


#2
1,1-Dichloroethene
Concen: 131.75 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.004 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 61 Resp: 2055

Ion	Ratio	Lower	Upper
61	100		
96	43.5	37.2	97.2

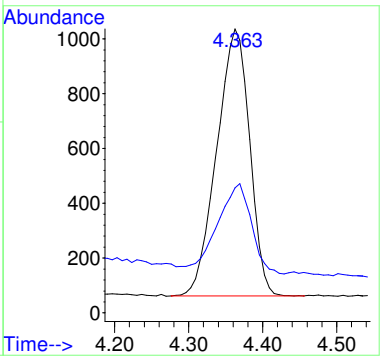


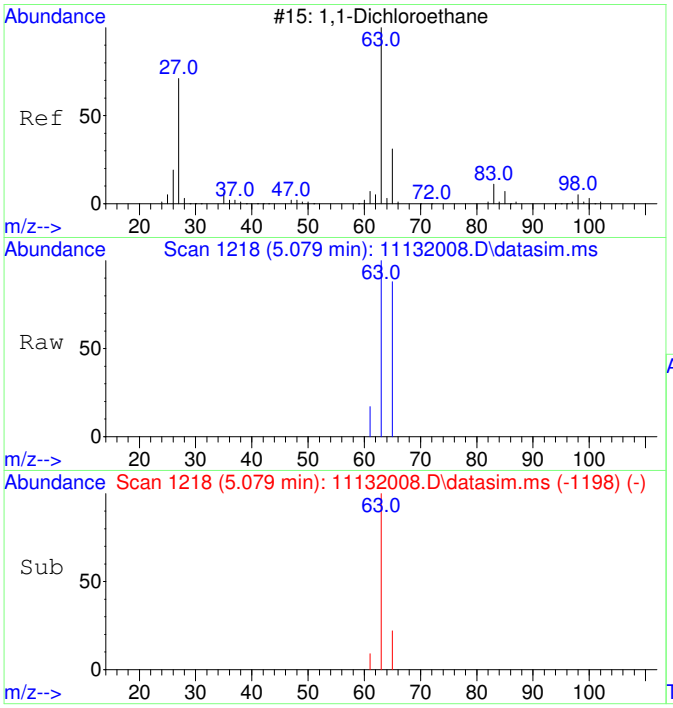


#3
trans-1,2-Dichloroethene
Concen: 167.31 ug/L
RT: 4.363 min Scan# 1110
Delta R.T. -0.033 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 61 Resp: 3015

Ion	Ratio	Lower	Upper
61	100		
63	35.1	2.4	62.4

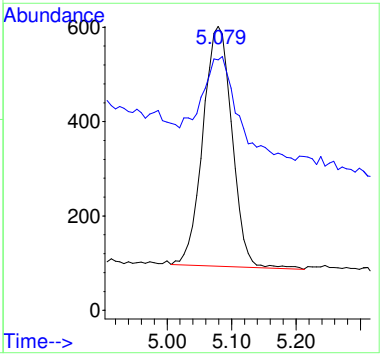


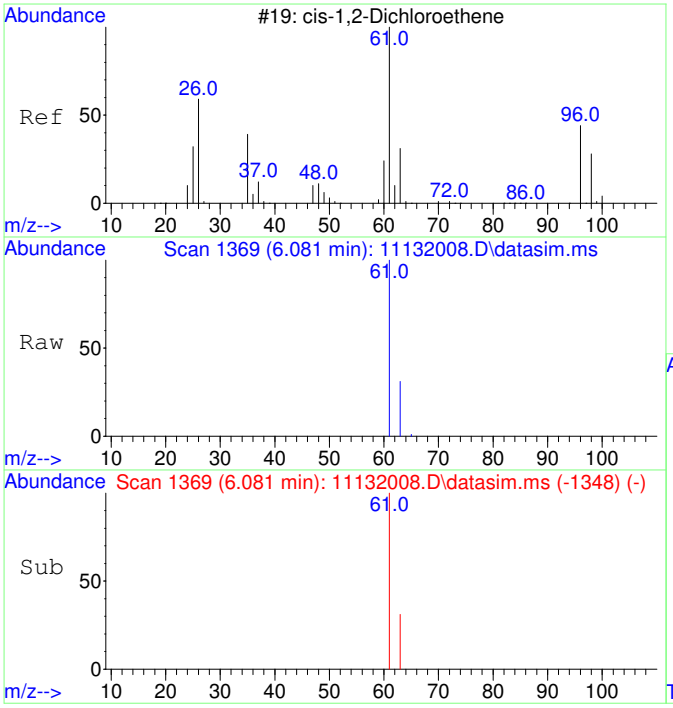


#4
1,1-Dichloroethane
Concen: 71.15 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 63 Resp: 1596

Ion	Ratio	Lower	Upper
63	100		
65	57.6	1.8	61.8

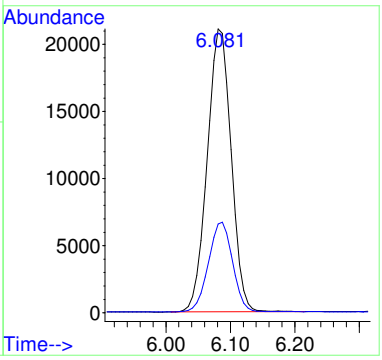


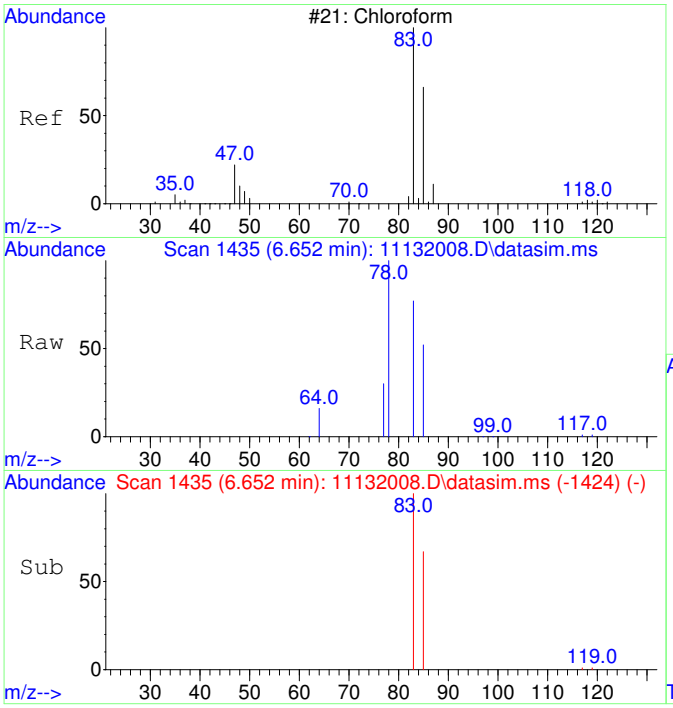


#5
cis-1,2-Dichloroethene
Concen: 2297.48 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 61 Resp: 54402

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

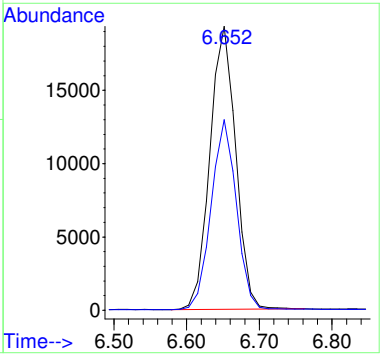


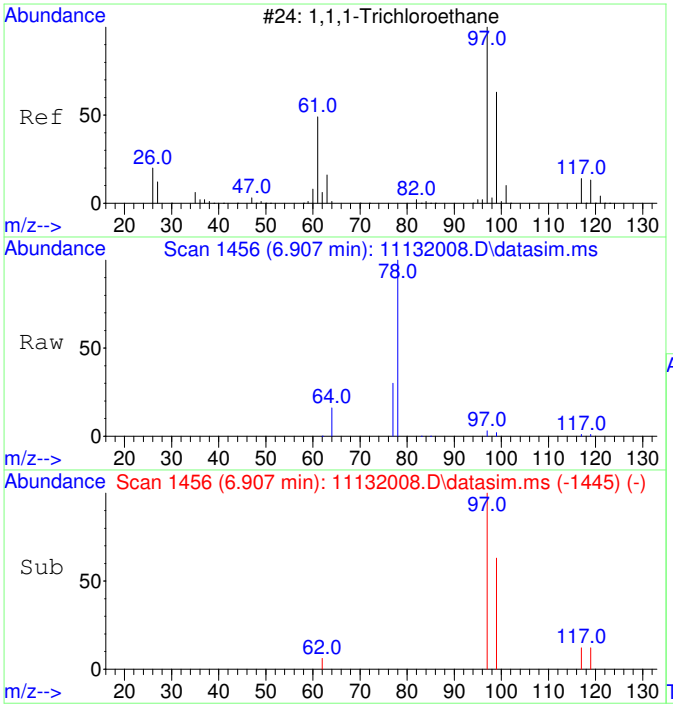


#6
Chloroform
Concen: 1965.69 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 83 Resp: 47641

Ion	Ratio	Lower	Upper
83	100		
85	65.3	35.1	95.1

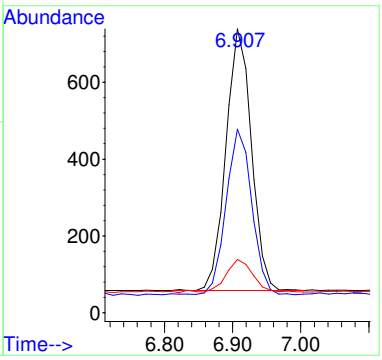


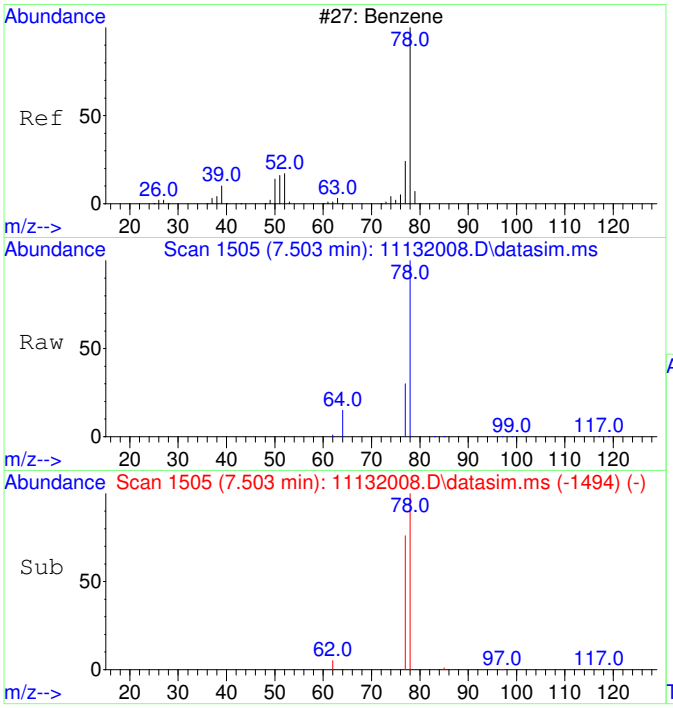


#7
1,1,1-Trichloroethane
Concen: 67.06 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 97 Resp: 1765

Ion	Ratio	Lower	Upper
97	100		
99	63.6	34.6	94.6
117	13.3	0.0	43.2

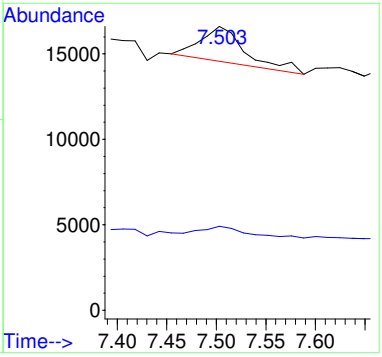


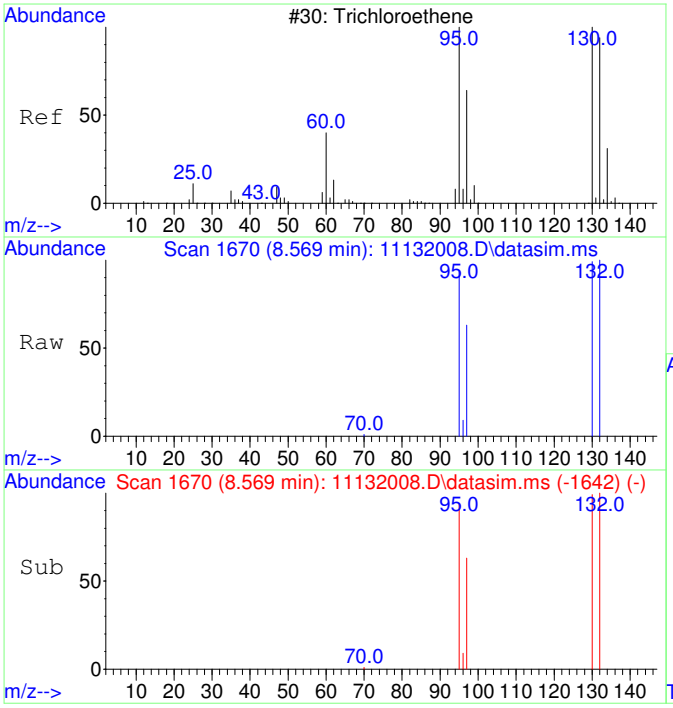


#9
Benzene
Concen: 90.60 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 78 Resp: 6013

Ion	Ratio	Lower	Upper
78	100		
77	45.2	0.0	53.2

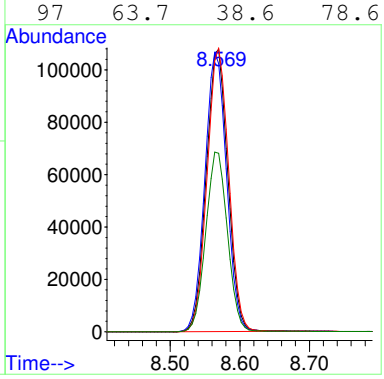


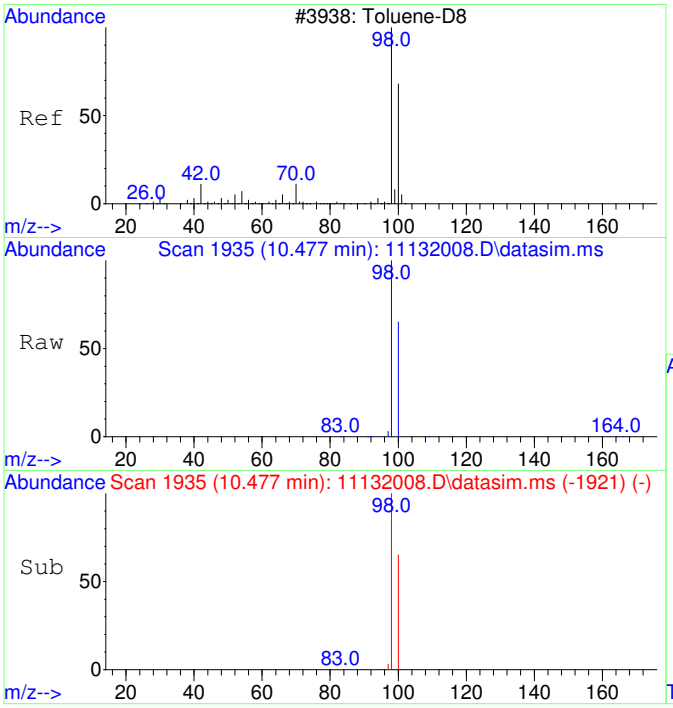


#11
Trichloroethene
Concen: 11663.10 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion:130 Resp: 233050

Ion	Ratio	Lower	Upper
130	100		
95	99.2	60.7	120.7
132	100.2	76.0	116.0
97	63.7	38.6	78.6

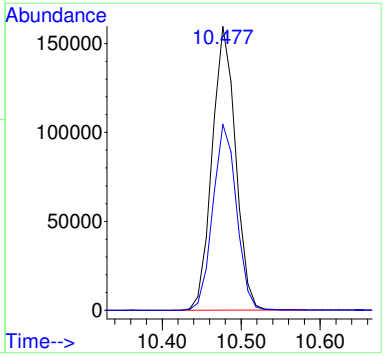


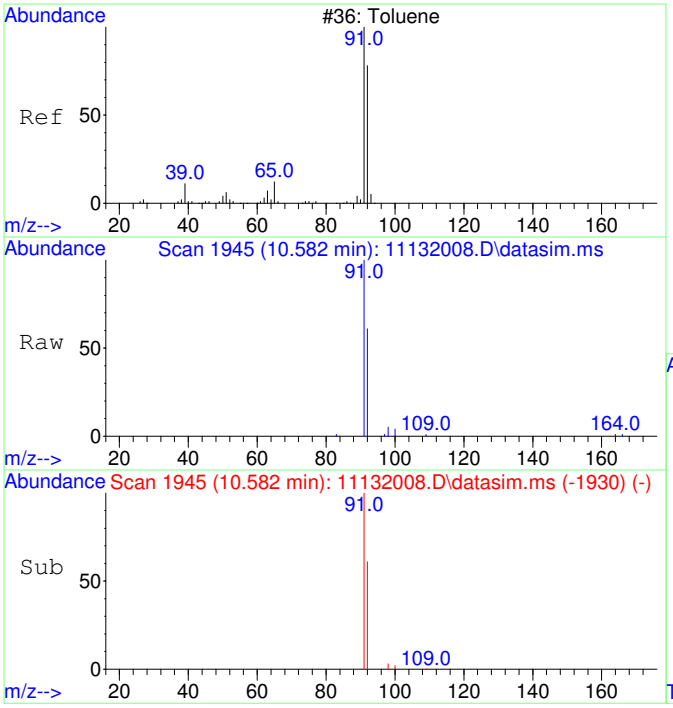


#12
Toluene-d8
Concen: 4295.59 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 98 Resp: 328461

Ion	Ratio	Lower	Upper
98	100		
100	65.9	37.1	97.1

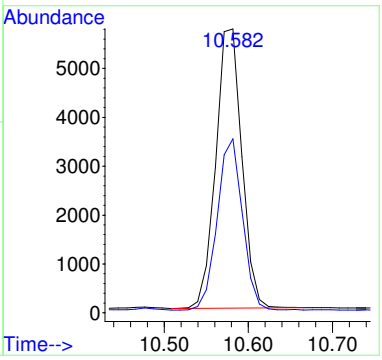


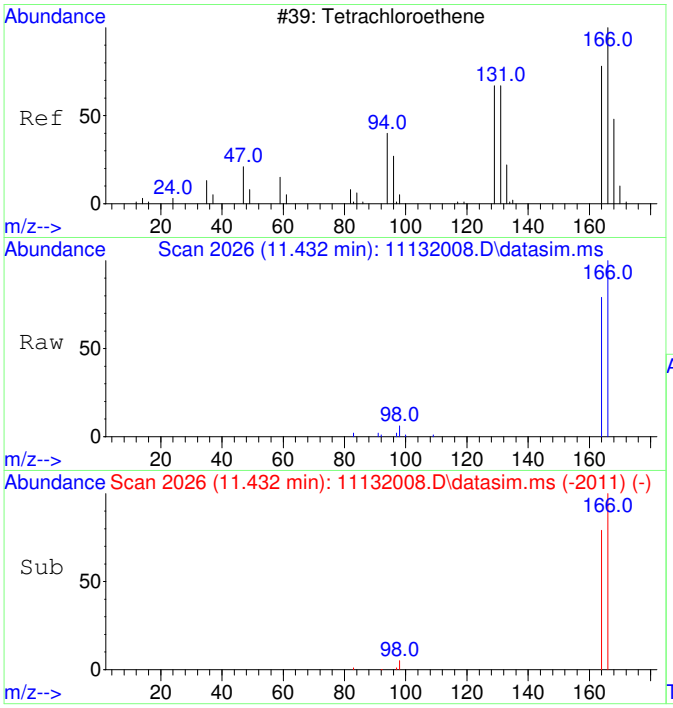


#13
Toluene
Concen: 126.46 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 91 Resp: 12328

Ion	Ratio	Lower	Upper
91	100		
92	59.1	29.9	89.9

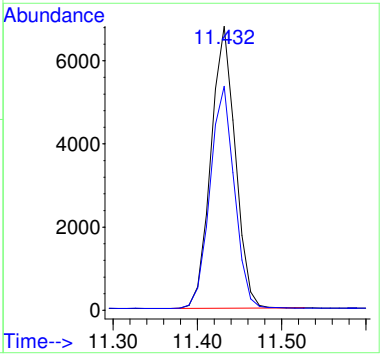


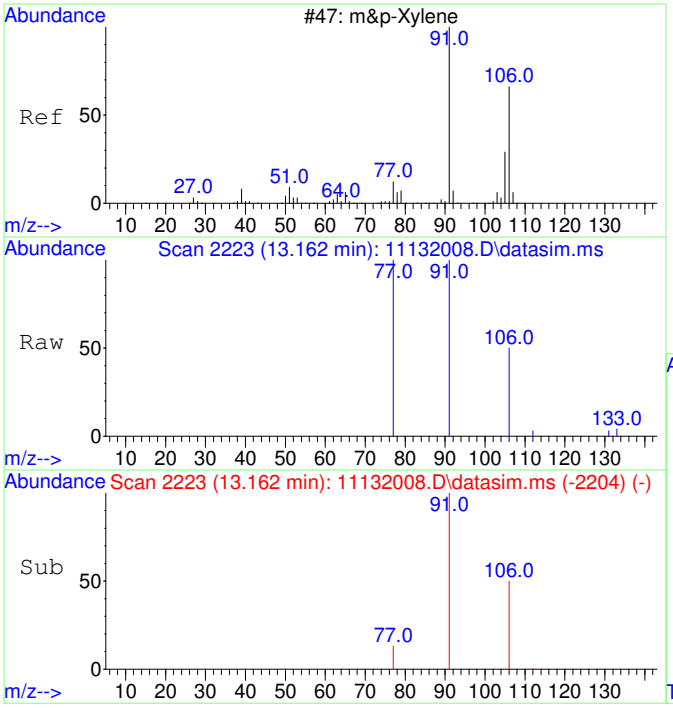


#15
Tetrachloroethene
Concen: 483.52 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion:166 Resp: 13641

Ion	Ratio	Lower	Upper
166	100		
164	78.4	47.8	107.8

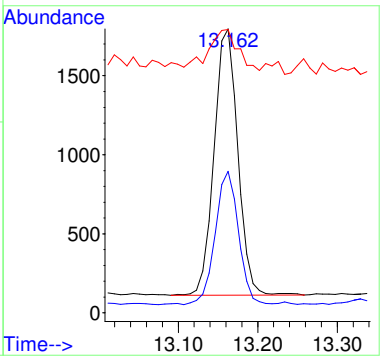


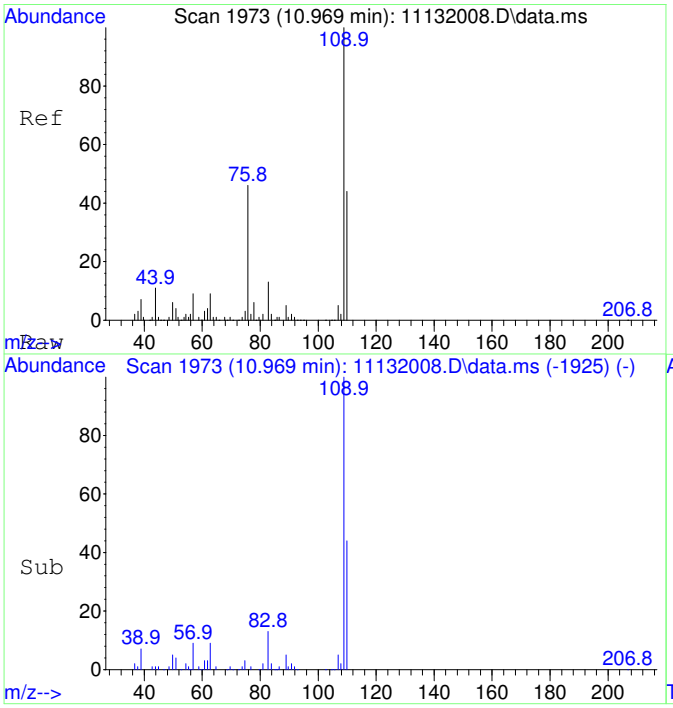


#19
m&p-Xylene
Concen: 37.62 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 91 Resp: 3489

Ion	Ratio	Lower	Upper
91	100		
106	48.7	22.2	82.2
77	19.4	0.0	42.4

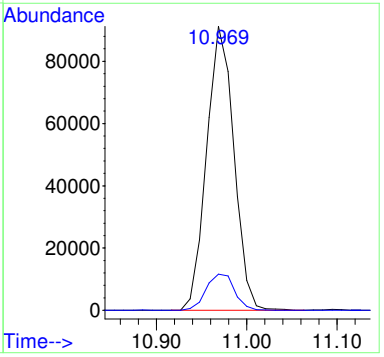


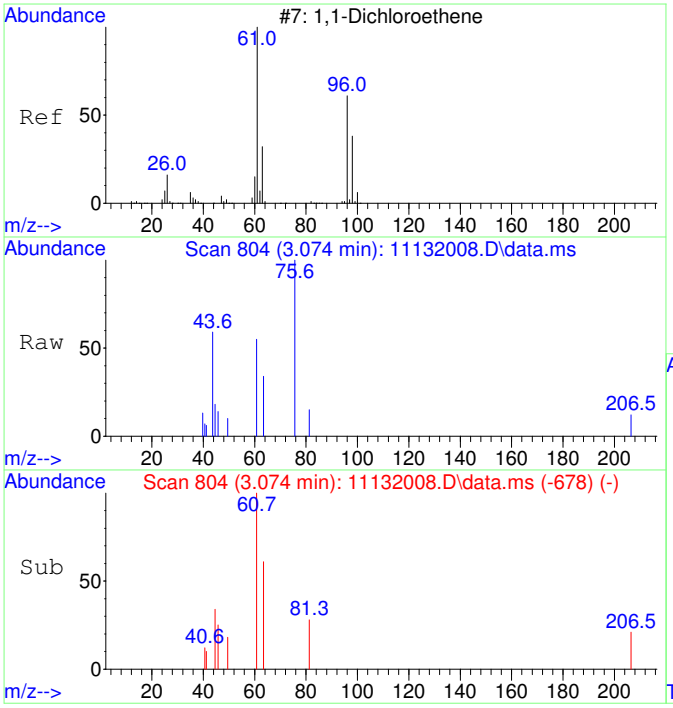


#25
2-Fluorotoluene SCAN
Concen: 5046.41 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion:109 Resp: 192150

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	43.8

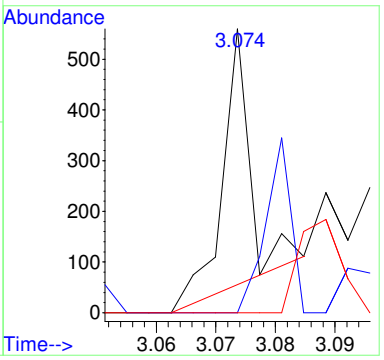


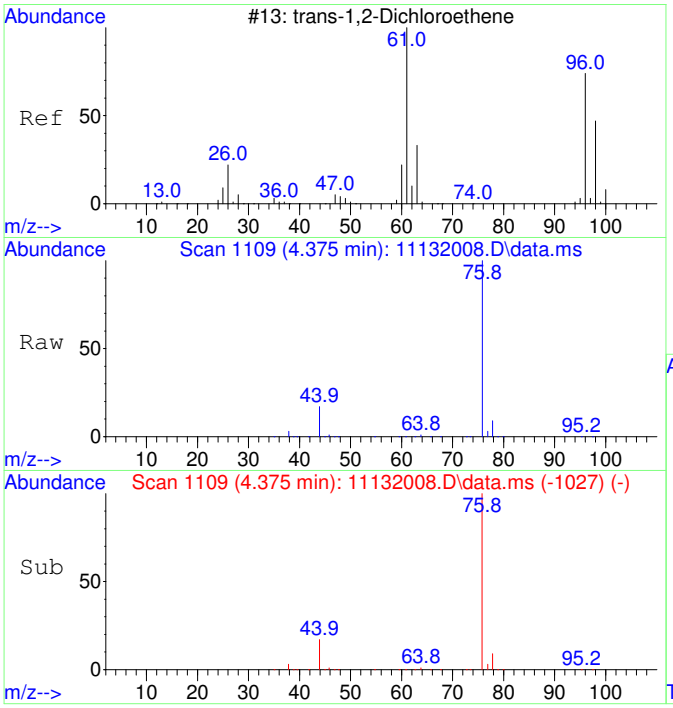


#26
1,1-Dichloroethene SCAN
Concen: 20.78 ug/L
RT: 3.074 min Scan# 804
Delta R.T. -0.033 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 61 Resp: 168

Ion	Ratio	Lower	Upper
61	100		
96	60.7	33.1	93.1
98	54.8	11.2	71.2

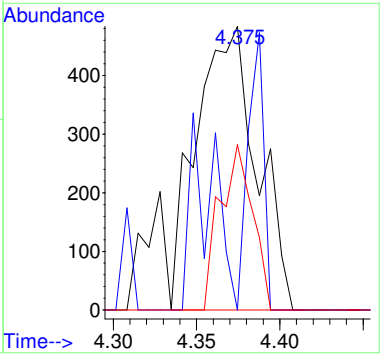


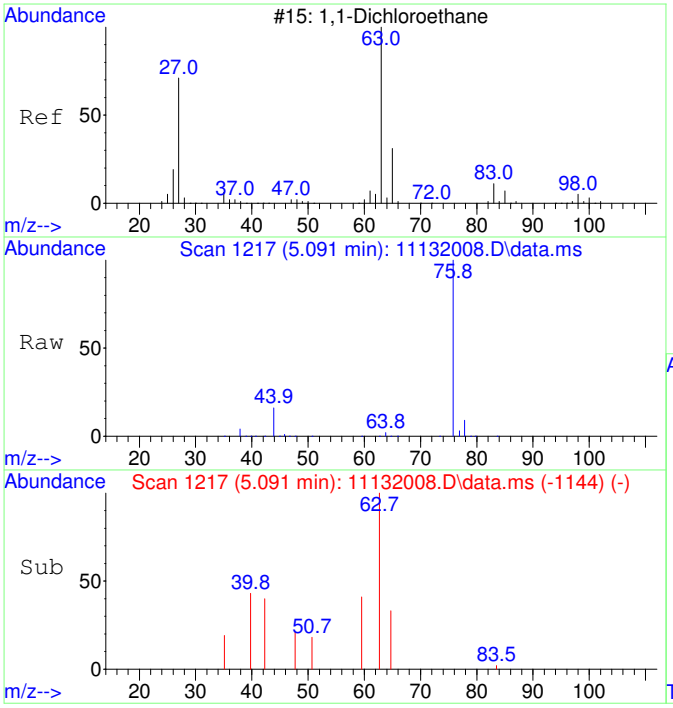


#27
trans-1,2-Dichloroethene SCAN
Concen: 123.52 ug/L
RT: 4.375 min Scan# 1109
Delta R.T. -0.027 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 61 Resp: 1236

Ion	Ratio	Lower	Upper
61	100		
96	25.2	49.0	109.0#
98	31.2	20.5	80.5

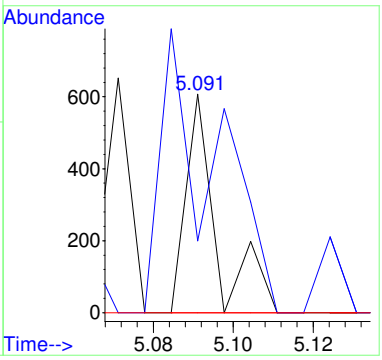


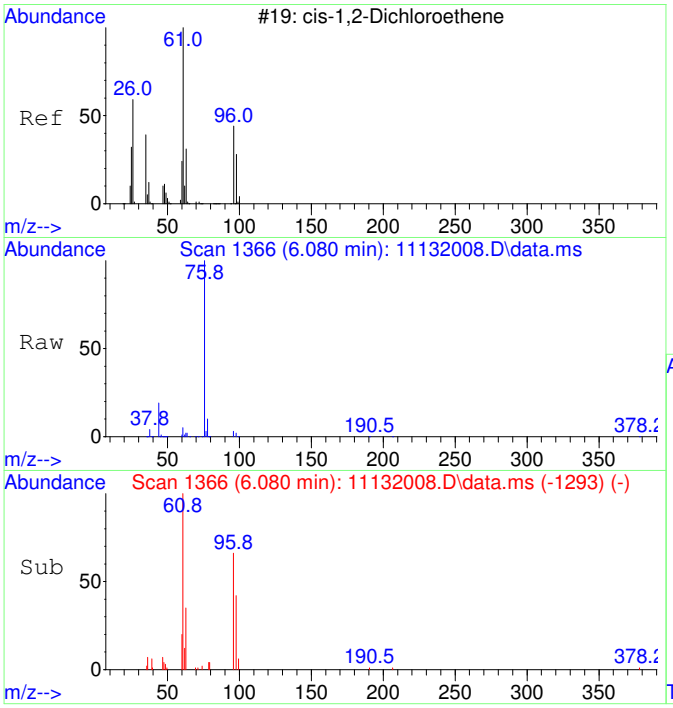


#28
1,1-Dichloroethane SCAN
Concen: 27.72 ug/L
RT: 5.091 min Scan# 1217
Delta R.T. -0.013 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 63 Resp: 321

Ion	Ratio	Lower	Upper
63	100		
65	231.2	1.3	61.3#
83	0.0	0.0	45.9

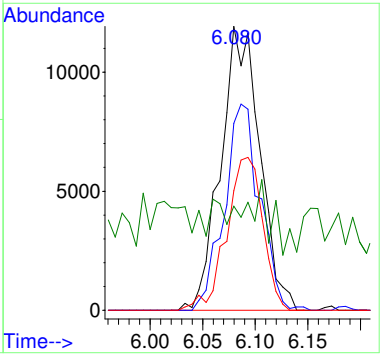


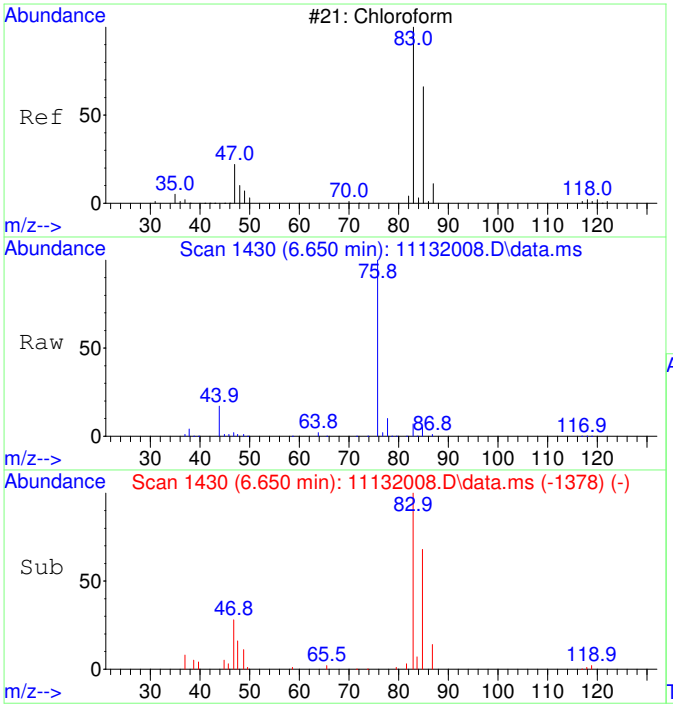


#29
cis-1,2-Dichloroethene SCAN
Concen: 2486.45 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. -0.013 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 61 Resp: 30850

Ion	Ratio	Lower	Upper
61	100		
96	65.9	39.9	99.9
98	49.8	13.5	73.5
64	0.0	4.5	64.5#

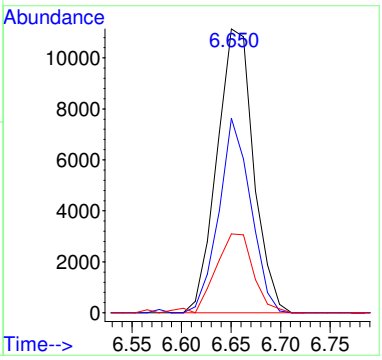


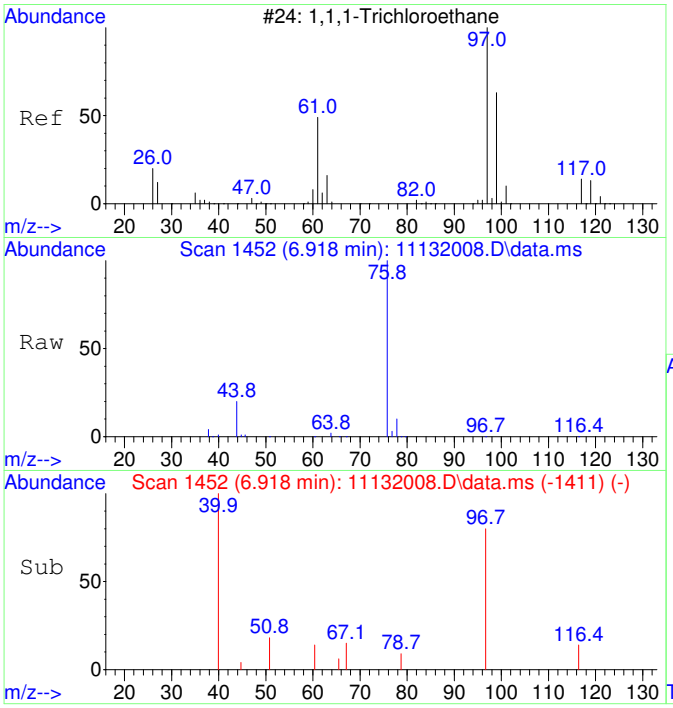


#30
Chloroform SCAN
Concen: 2130.50 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 83 Resp: 28671

Ion	Ratio	Lower	Upper
83	100		
85	59.8	34.6	94.6
47	29.0	0.0	53.4

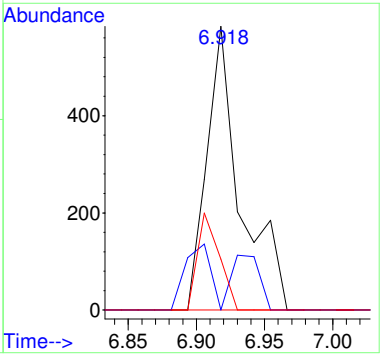


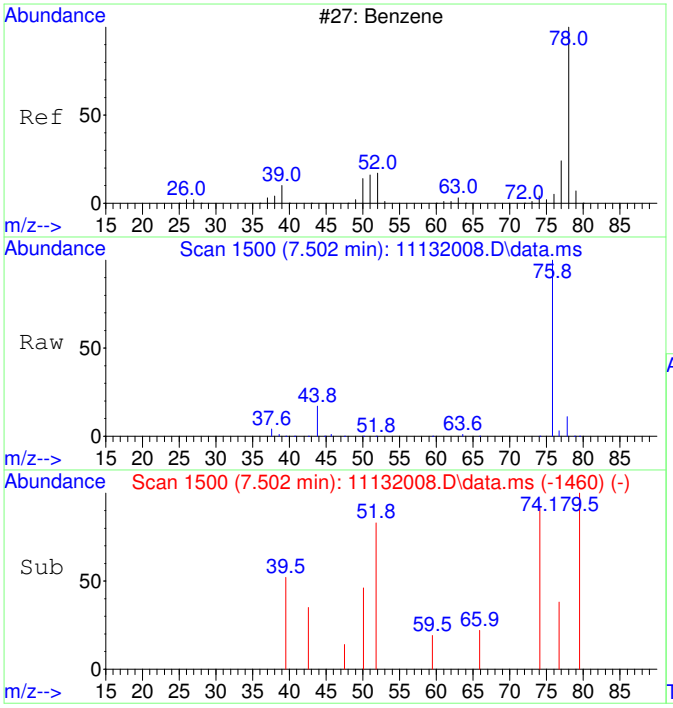


#31
1,1,1-Trichloroethane SCAN
Concen: 82.03 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.000 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 97 Resp: 1006

Ion	Ratio	Lower	Upper
97	100		
99	16.2	43.6	103.6#
61	0.0	18.0	78.0#

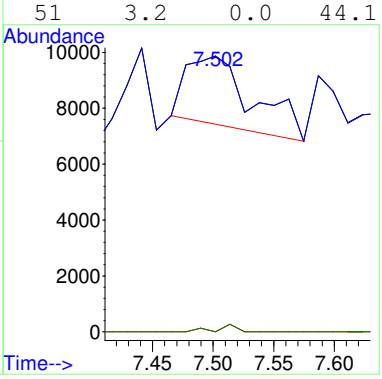


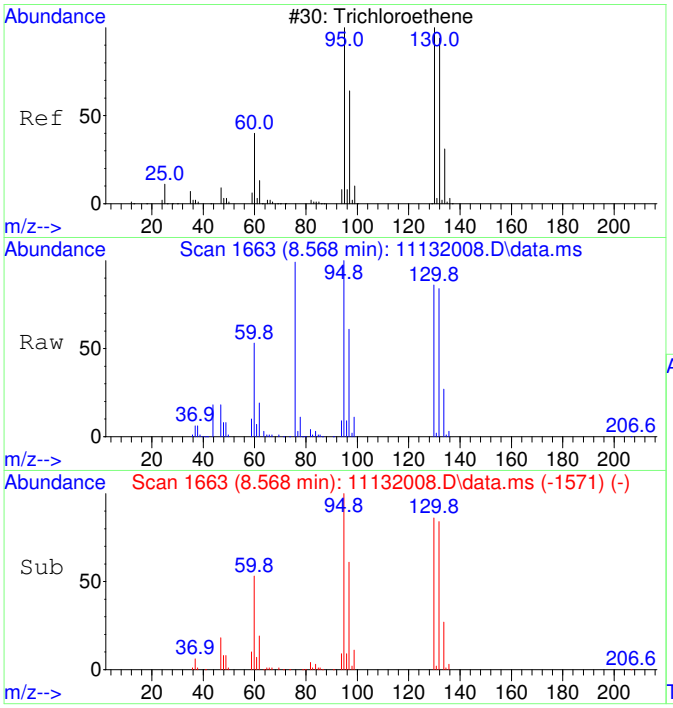


#33
Benzene SCAN
Concen: 267.07 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 78 Resp: 9018

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.2	0.0	47.9
51	3.2	0.0	44.1

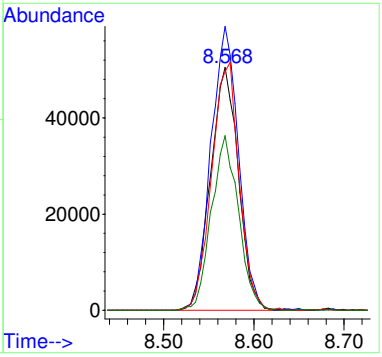


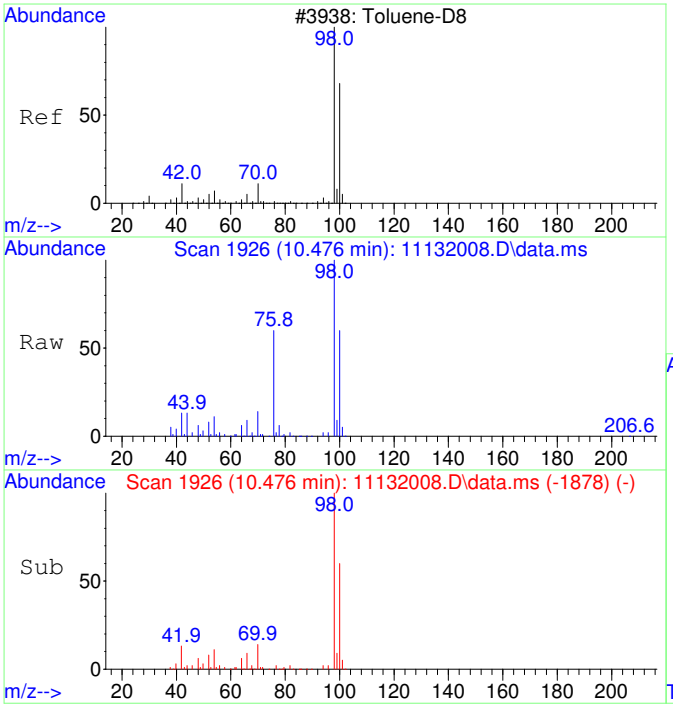


#35
Trichloroethene SCAN
Concen: 11713.21 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion:130 Resp: 108688

Ion	Ratio	Lower	Upper
130	100		
95	115.1	60.5	120.5
132	100.2	59.6	119.6
97	69.5	28.2	88.2

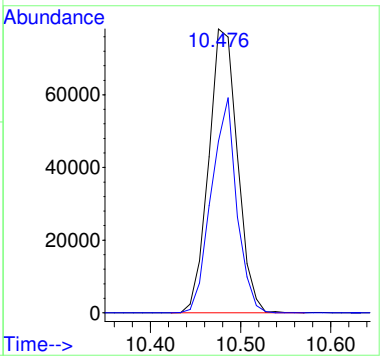


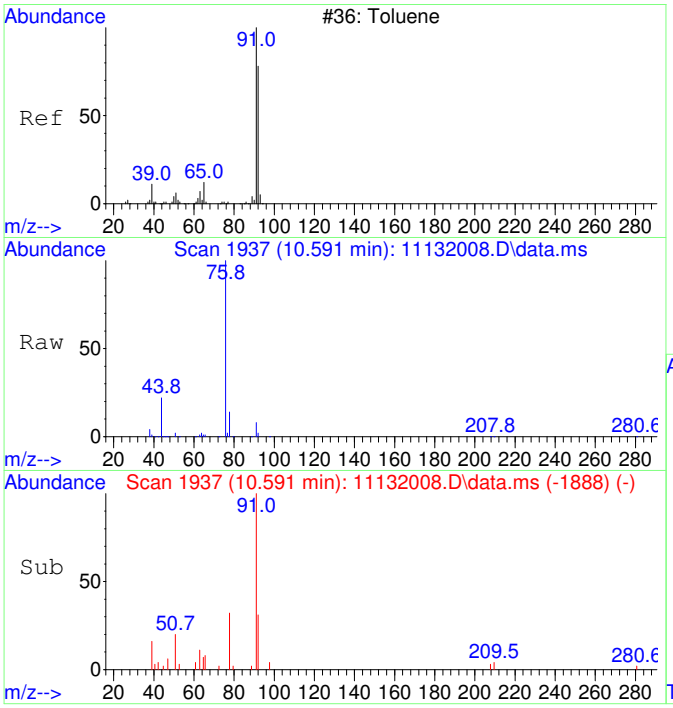


#36
Toluene-d8 SCAN
Concen: 4651.36 ug/L
RT: 10.476 min Scan# 1926
Delta R.T. 0.000 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 98 Resp: 173206

Ion	Ratio	Lower	Upper
98	100		
100	66.8	40.0	100.0

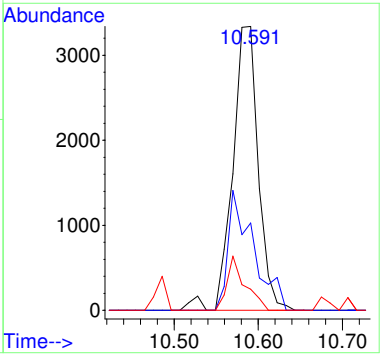


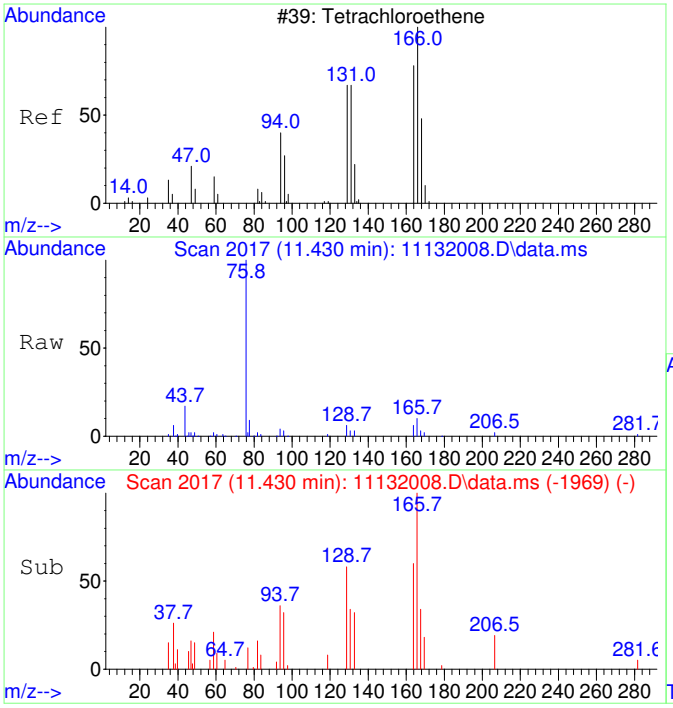


#37
Toluene SCAN
Concen: 148.34 ug/L
RT: 10.591 min Scan# 1937
Delta R.T. 0.011 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 91 Resp: 7074

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

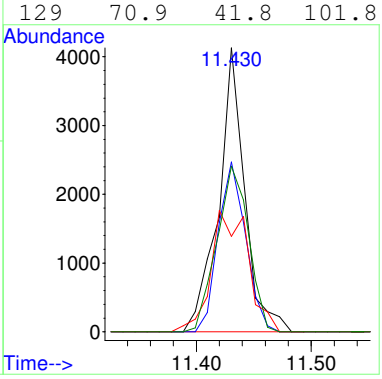


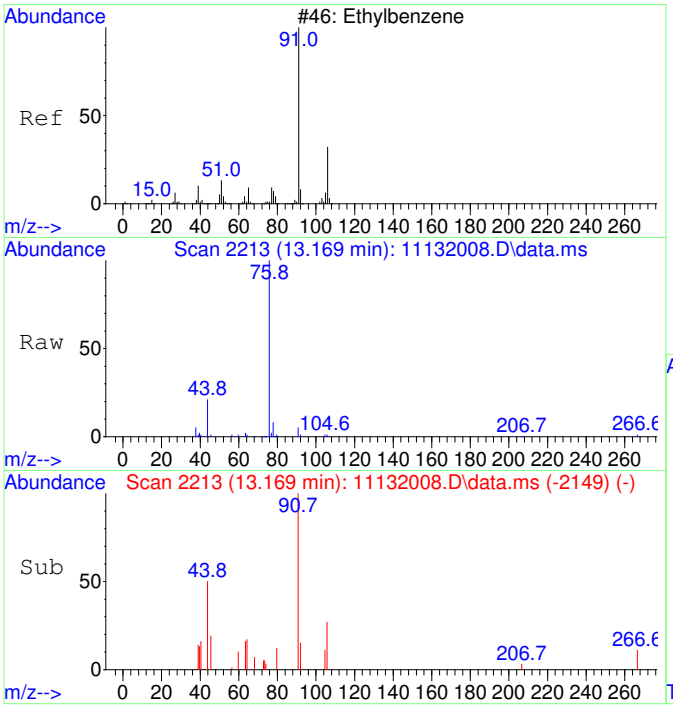


#39
Tetrachloroethene SCAN
Concen: 571.35 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion:166 Resp: 6546

Ion	Ratio	Lower	Upper
166	100		
164	63.0	50.9	110.9
131	60.7	38.7	98.7
129	70.9	41.8	101.8

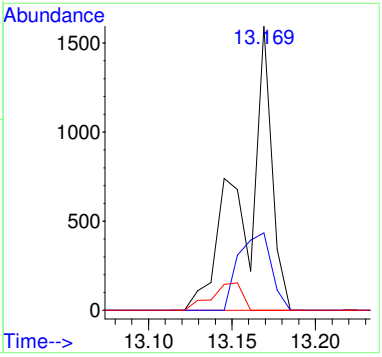


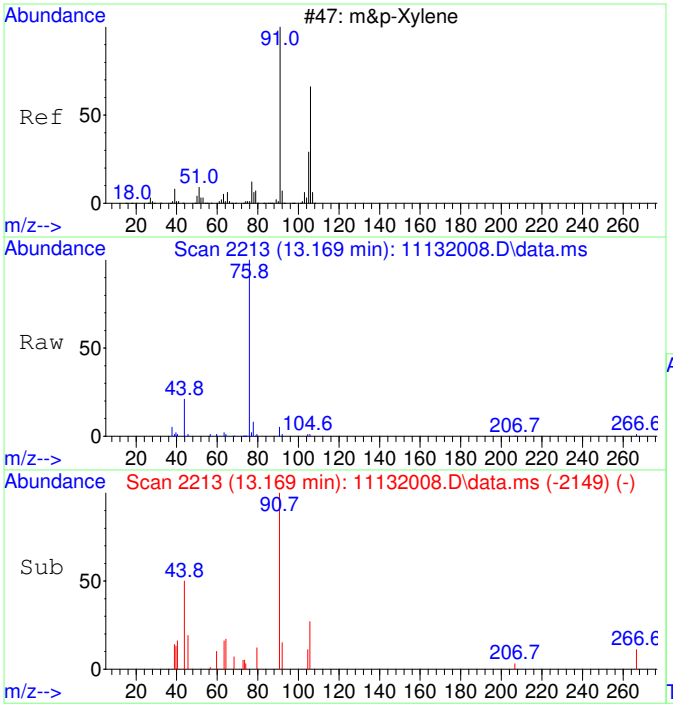


#42
Ethylbenzene SCAN
Concen: 21.06 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 91 Resp: 1830

Ion	Ratio	Lower	Upper
91	100		
106	32.5	23.1	83.1
51	10.8	0.0	40.1

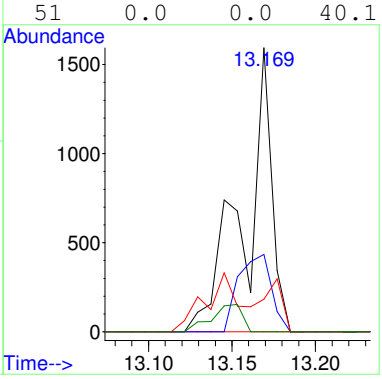


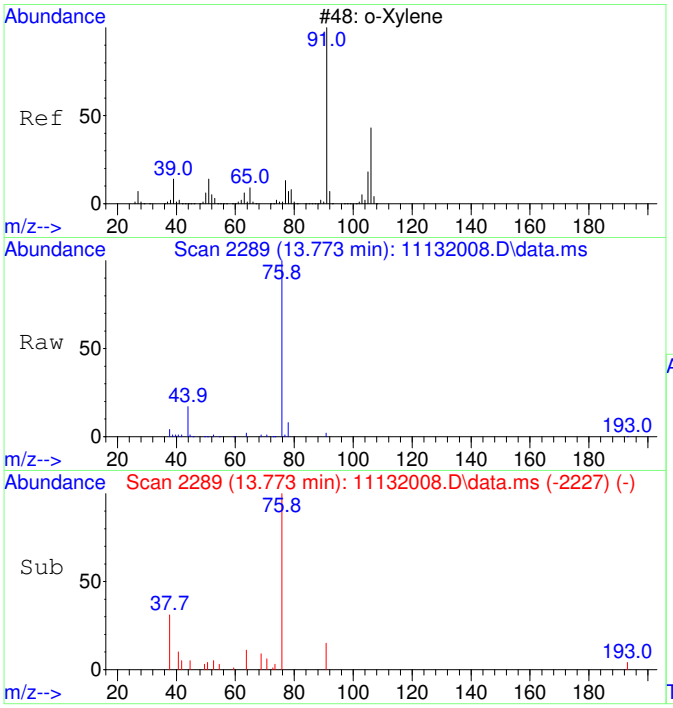


#43
m&p-Xylene SCAN
Concen: 21.06 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 91 Resp: 1830

Ion	Ratio	Lower	Upper
91	100		
106	32.5	23.1	83.1
105	7.0	0.0	54.7
51	0.0	0.0	40.1

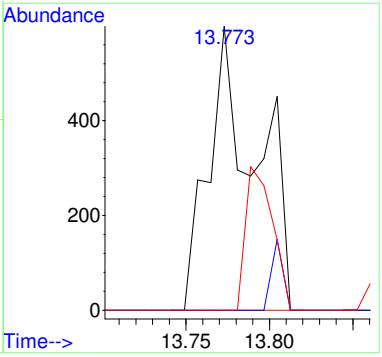




#44
o-Xylene SCAN
Concen: 25.55 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.008 min
Lab File: 11132008.D
Acq: 13 Nov 2020 13:31

Tgt Ion: 91 Resp: 1188

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



2011015-03RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132009.D
Acq On : 13 Nov 2020 13:55
InstName : AG5975C
Operator : TD
Sample : 2011015-03RE1
Misc : 10X DL (180-20)
ALS Vial : 9 Sample Multiplier: 10

Quant Time: Nov 16 08:53:35 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

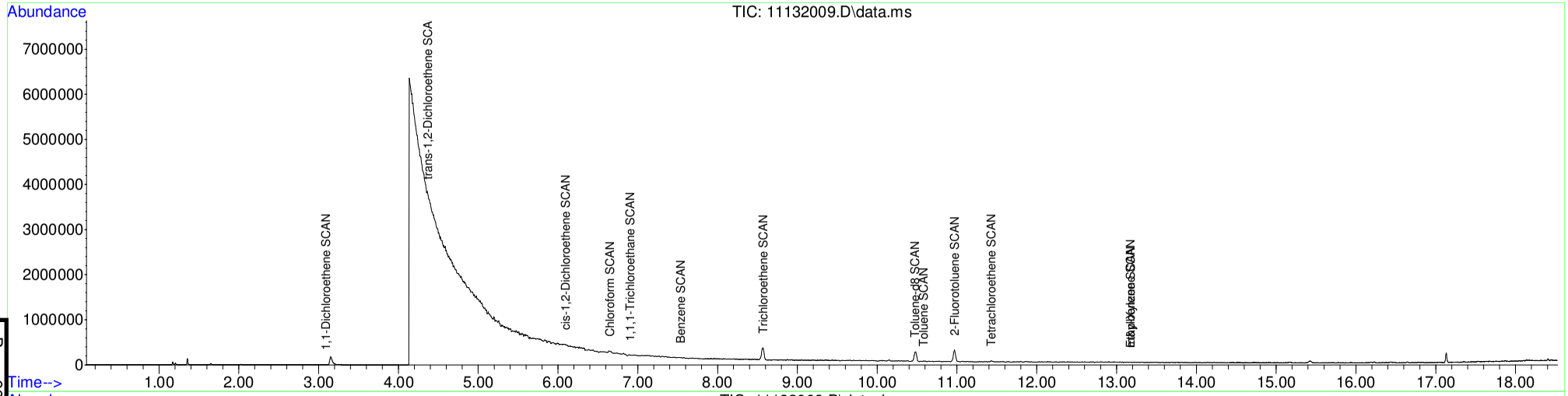
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	405936	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	339674	4274.44 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 85.49%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.101	61	1839	113.45 ug/L #	62
3] trans-1,2-Dichloroethene	4.369	61	2451	130.87 ug/L	84
4] 1,1-Dichloroethane	5.079	63	1371	58.81 ug/L	66
5] cis-1,2-Dichloroethene	6.081	61	43410	1764.03 ug/L	99
6] Chloroform	6.652	83	41199	1635.68 ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1365	49.90 ug/L	98
9] Benzene	7.503	78	4846	70.26 ug/L #	3
11] Trichloroethene	8.564	130	194023	9343.21 ug/L RPT	93
13] Toluene	10.571	91	9265	91.45 ug/L	97
15] Tetrachloroethene	11.432	166	11548	393.87 ug/L	99
19] m&p-Xylene	13.163	91	2445	25.37 ug/L	89
25) 2-Fluorotoluene SCAN	10.969	109	198698	5021.27 ug/L	99
26) 1,1-Dichloroethene SCAN	3.092	61	198	23.56 ug/L #	41
27) trans-1,2-Dichloroethe...	4.368	61	1204	115.78 ug/L #	57
29) cis-1,2-Dichloroethene...	6.086	61	24144	1872.46 ug/L	89
30) Chloroform SCAN	6.650	83	25918	1853.18 ug/L	91
31) 1,1,1-Trichloroethane ...	6.906	97	779	61.12 ug/L #	33
33) Benzene SCAN	7.538	78	13403	381.95 ug/L #	91
35) Trichloroethene SCAN	8.568	130	91141	9451.18 ug/L	81
36) Toluene-d8 SCAN	10.476	98	168621	4357.19 ug/L	96
37) Toluene SCAN	10.580	91	5461	110.19 ug/L	82
39) Tetrachloroethene SCAN	11.431	166	5660	475.36 ug/L	85
42) Ethylbenzene SCAN	13.169	91	1882	20.84 ug/L	71
43) m&p-Xylene SCAN	13.169	91	1882	20.84 ug/L	69

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132009.D
Acq On : 13 Nov 2020 13:55
InstName : AG5975C
Operator : TD
Sample : 2011015-03RE1
Misc : 10X DL (180-20)
ALS Vial : 9 Sample Multiplier: 10

Quant Time: Nov 16 08:53:35 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



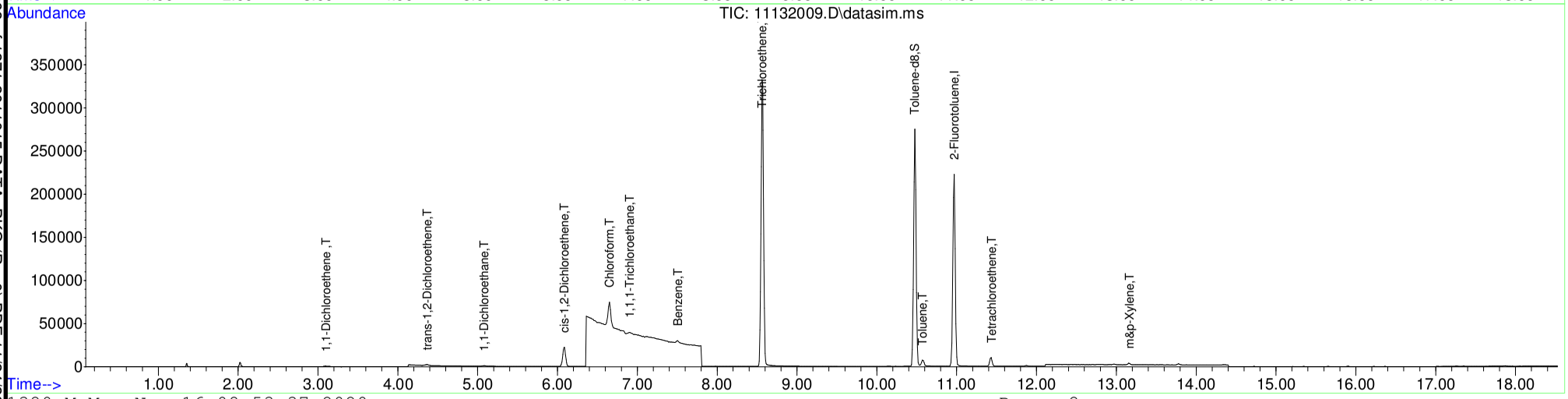
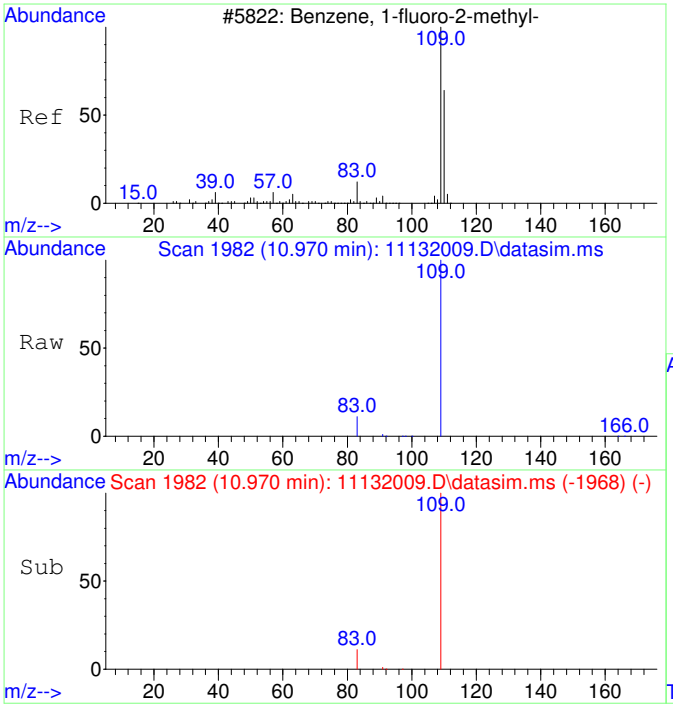


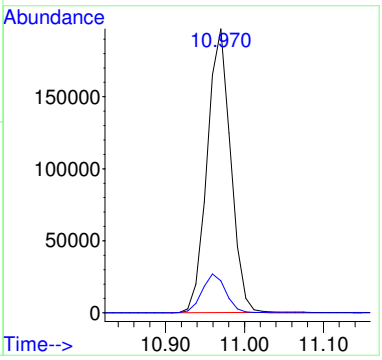
Table of Contents

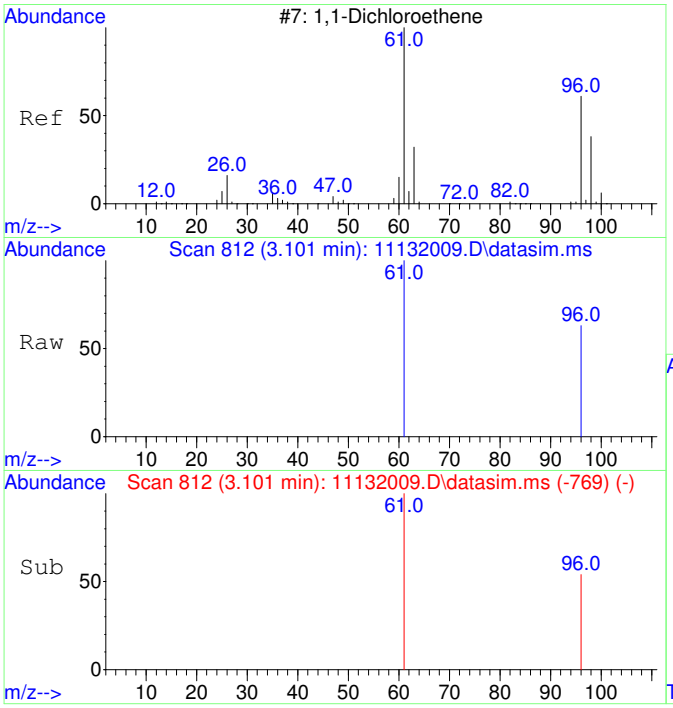


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion:109 Resp: 405936

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

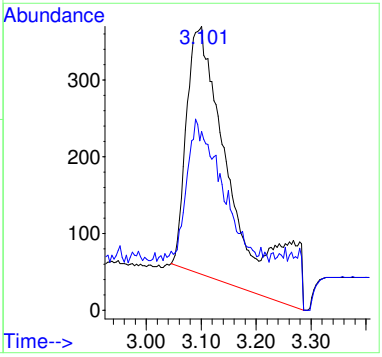


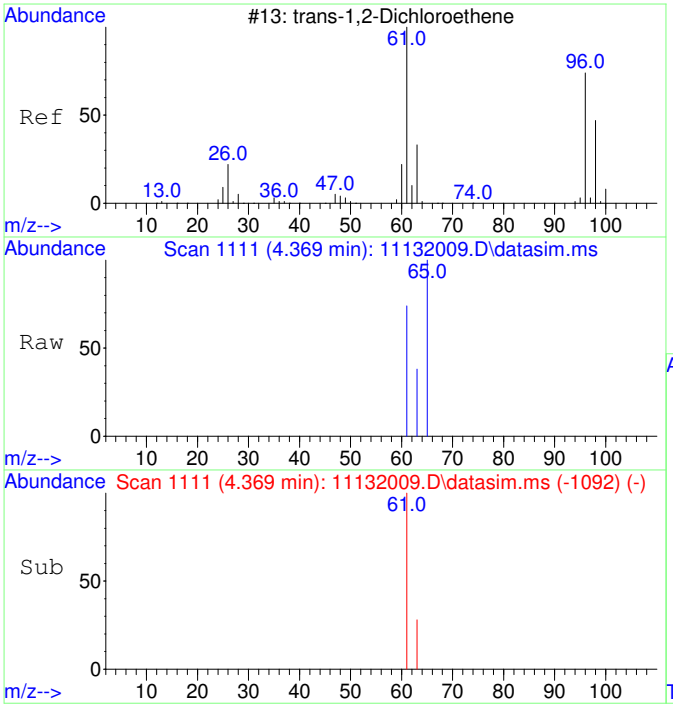


#2
1,1-Dichloroethene
Concen: 113.45 ug/L
RT: 3.101 min Scan# 812
Delta R.T. 0.011 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 61 Resp: 1839

Ion	Ratio	Lower	Upper
61	100		
96	36.5	37.2	97.2#

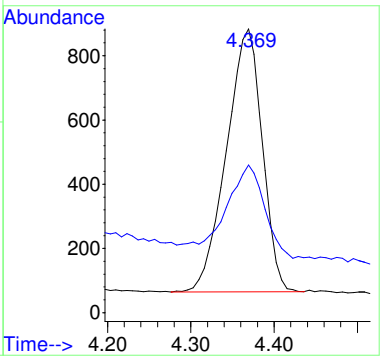


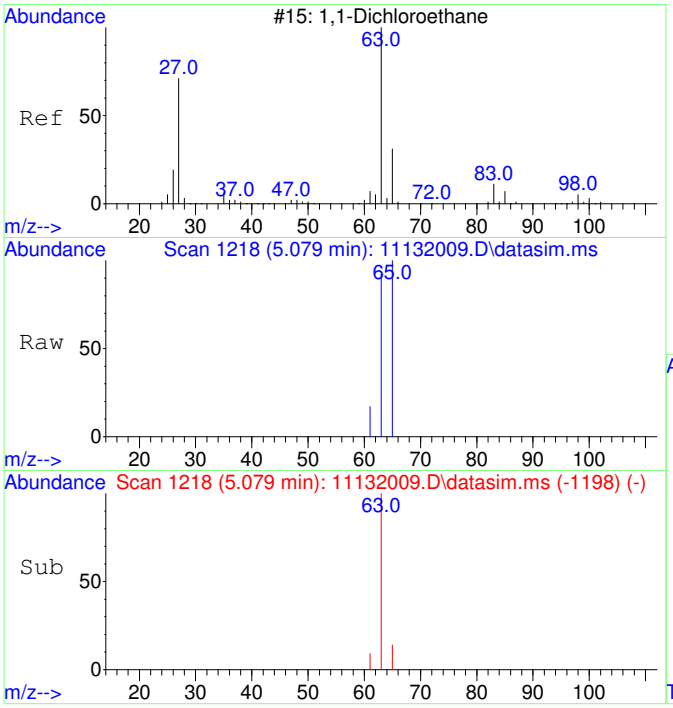


#3
trans-1,2-Dichloroethene
Concen: 130.87 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. -0.026 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 61 Resp: 2451

Ion	Ratio	Lower	Upper
61	100		
63	41.2	2.4	62.4

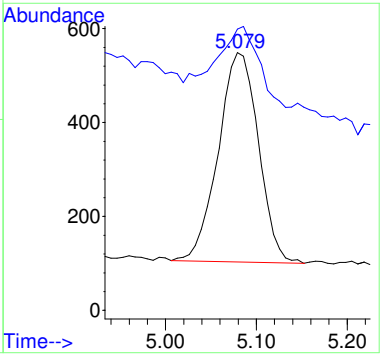


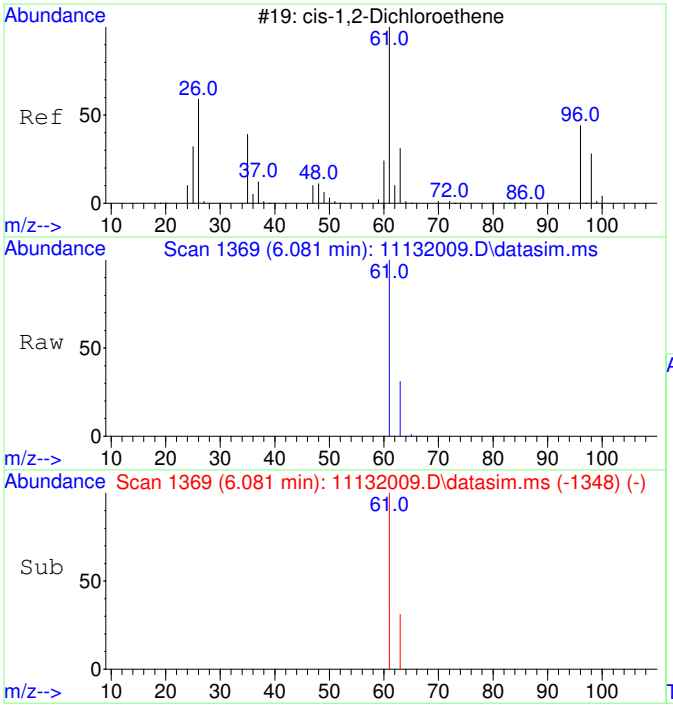


#4
1,1-Dichloroethane
Concen: 58.81 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 63 Resp: 1371

Ion	Ratio	Lower	Upper
63	100		
65	50.8	1.8	61.8

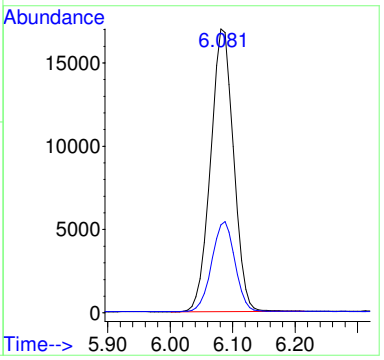


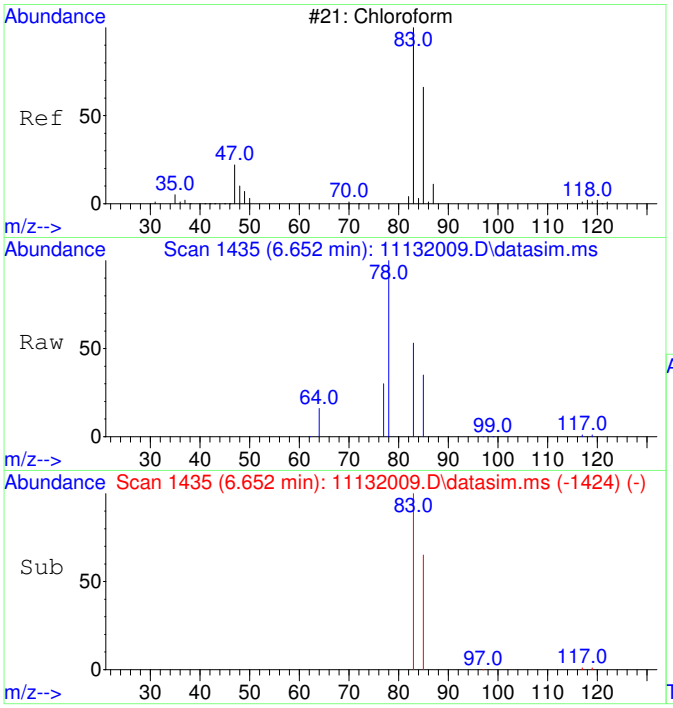


#5
cis-1,2-Dichloroethene
Concen: 1764.03 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 61 Resp: 43410

Ion	Ratio	Lower	Upper
61	100		
63	32.0	2.5	62.5

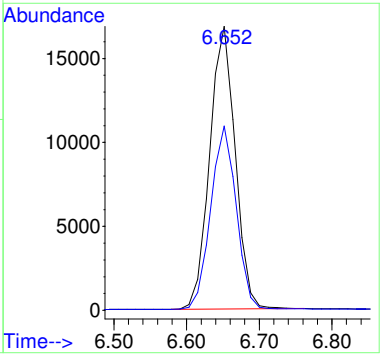


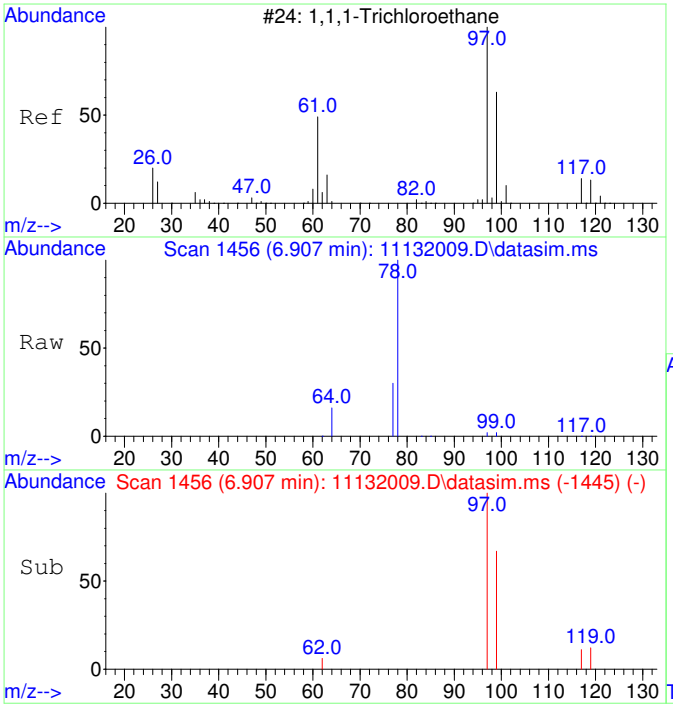


#6
Chloroform
Concen: 1635.68 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 83 Resp: 41199

Ion	Ratio	Lower	Upper
83	100		
85	64.5	35.1	95.1

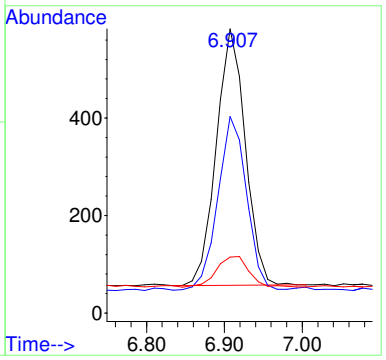


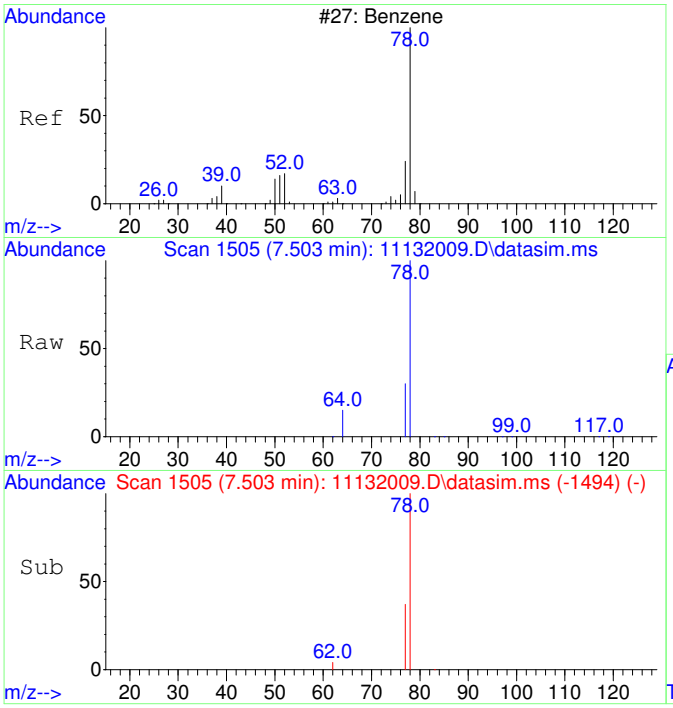


#7
1,1,1-Trichloroethane
Concen: 49.90 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 97 Resp: 1365

Ion	Ratio	Lower	Upper
97	100		
99	66.5	34.6	94.6
117	13.6	0.0	43.2

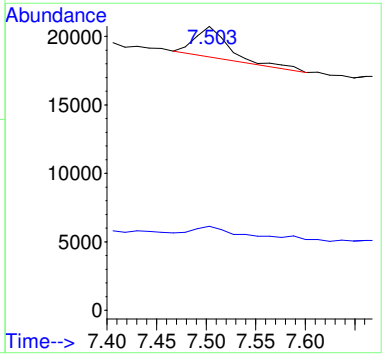


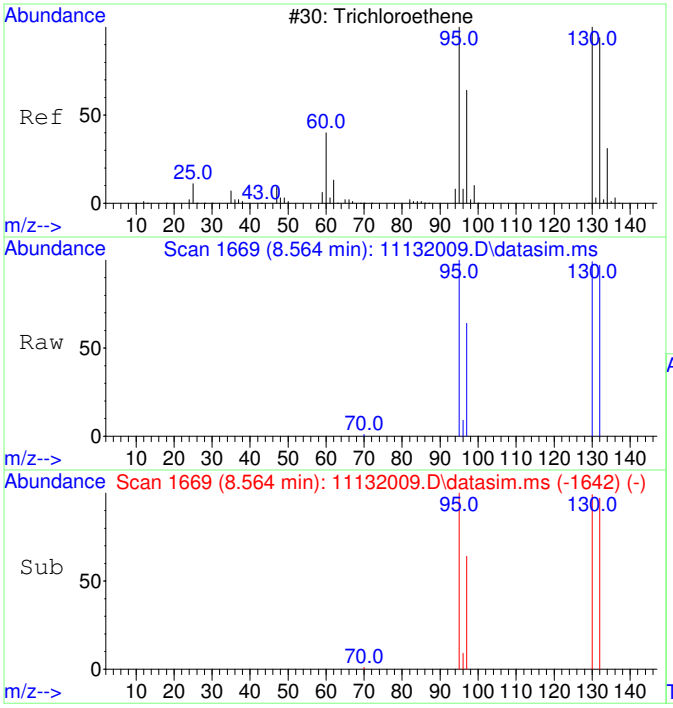


#9
Benzene
Concen: 70.26 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 78 Resp: 4846

Ion	Ratio	Lower	Upper
78	100		
77	70.2	0.0	53.2#

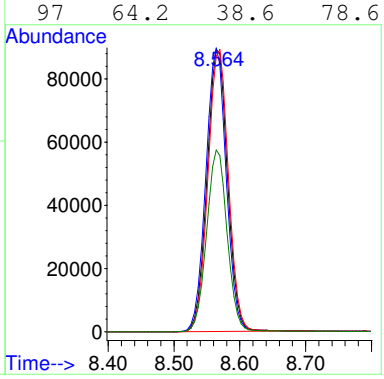


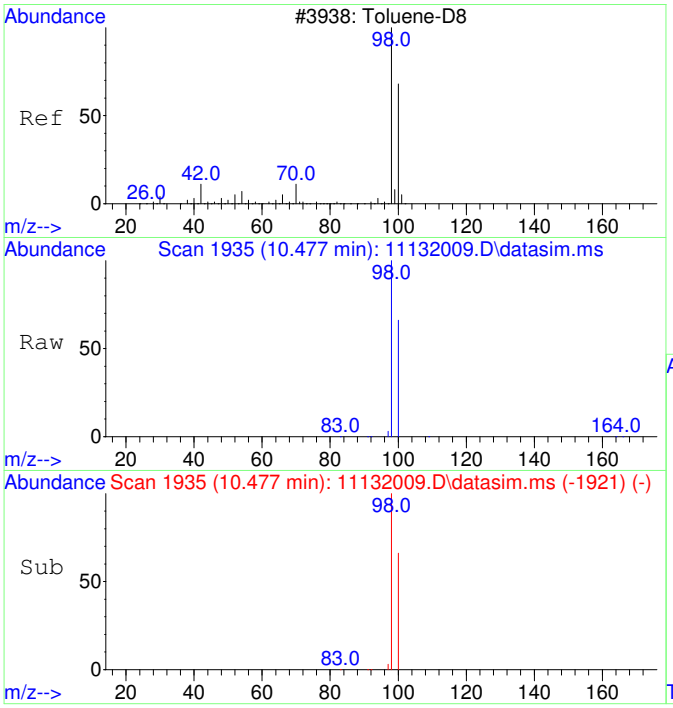


#11
Trichloroethene
Concen: 9343.21 ug/L
RT: 8.564 min Scan# 1669
Delta R.T. -0.005 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion:130 Resp: 194023

Ion	Ratio	Lower	Upper
130	100		
95	100.0	60.7	120.7
132	99.9	76.0	116.0
97	64.2	38.6	78.6

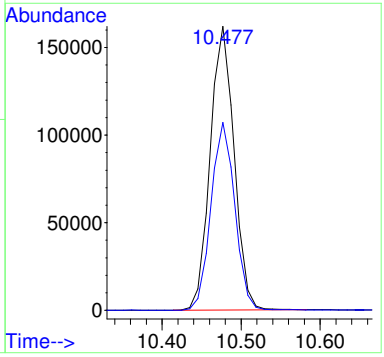


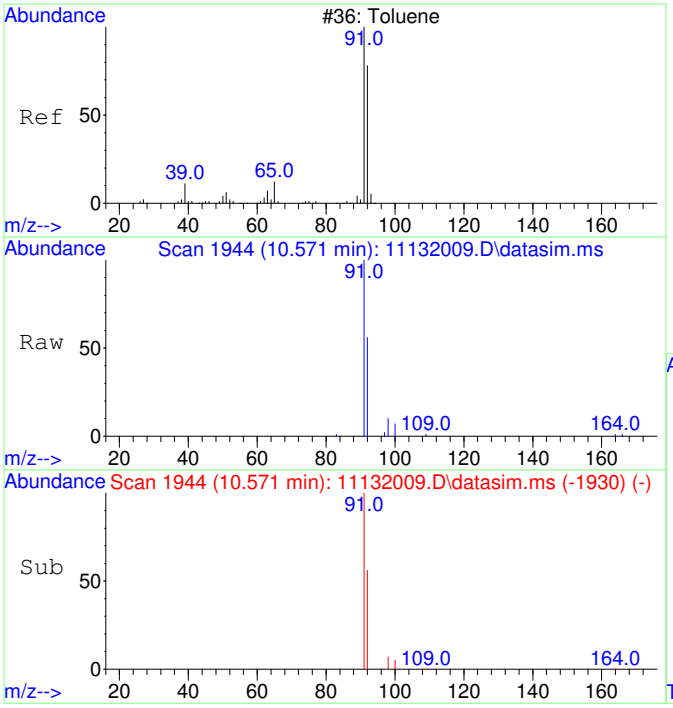


#12
Toluene-d8
Concen: 4274.44 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 98 Resp: 339674

Ion	Ratio	Lower	Upper
98	100		
100	65.8	37.1	97.1

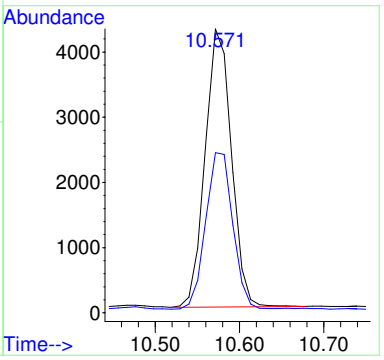


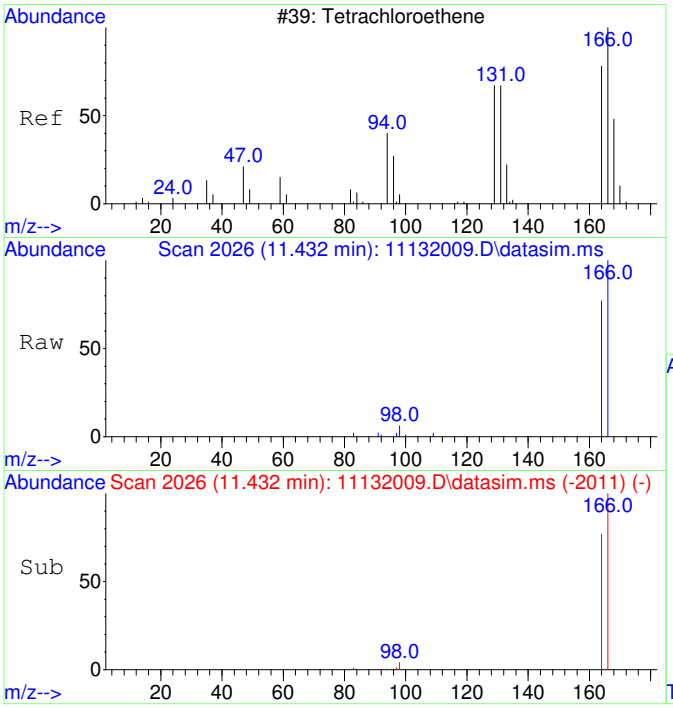


#13
Toluene
Concen: 91.45 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. 0.000 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 91 Resp: 9265

Ion	Ratio	Lower	Upper
91	100		
92	57.8	29.9	89.9

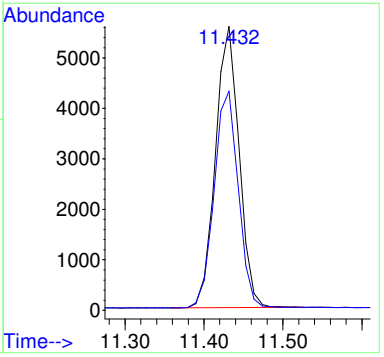


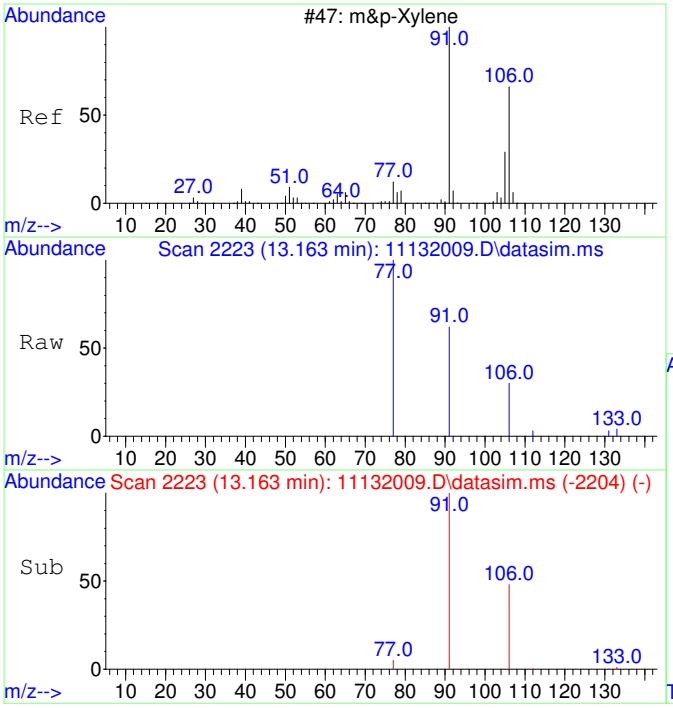


#15
Tetrachloroethene
Concen: 393.87 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion:166 Resp: 11548

Ion	Ratio	Lower	Upper
166	100		
164	78.6	47.8	107.8

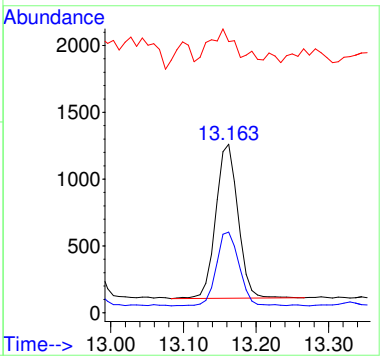


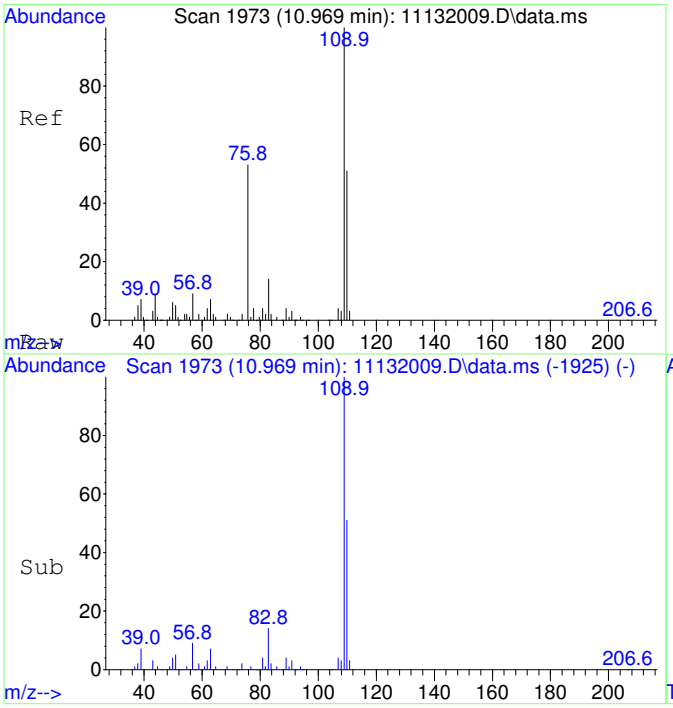


#19
m&p-Xylene
Concen: 25.37 ug/L
RT: 13.163 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 91 Resp: 2445

Ion	Ratio	Lower	Upper
91	100		
106	48.8	22.2	82.2
77	26.8	0.0	42.4

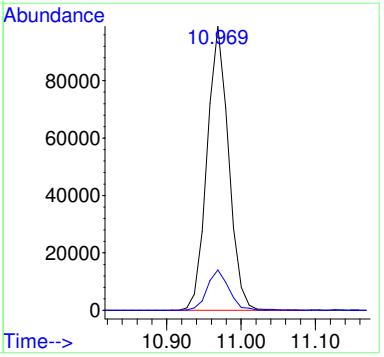


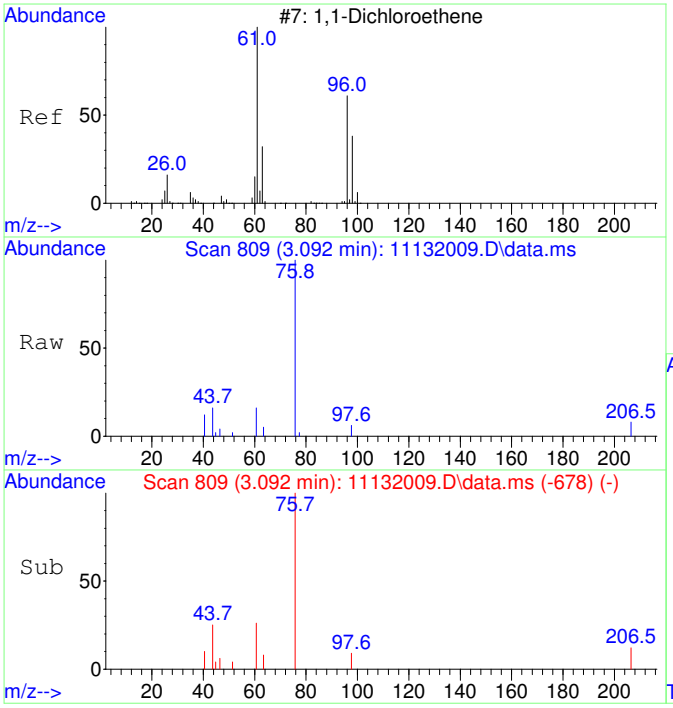


#25
2-Fluorotoluene SCAN
Concen: 5021.27 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion:109 Resp: 198698

Ion	Ratio	Lower	Upper
109	100		
83	14.2	0.0	43.8

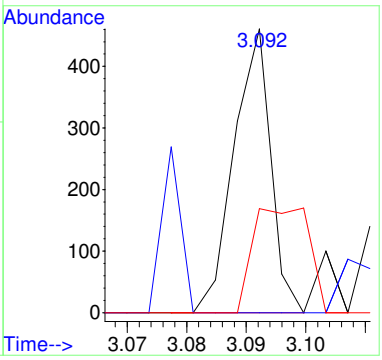


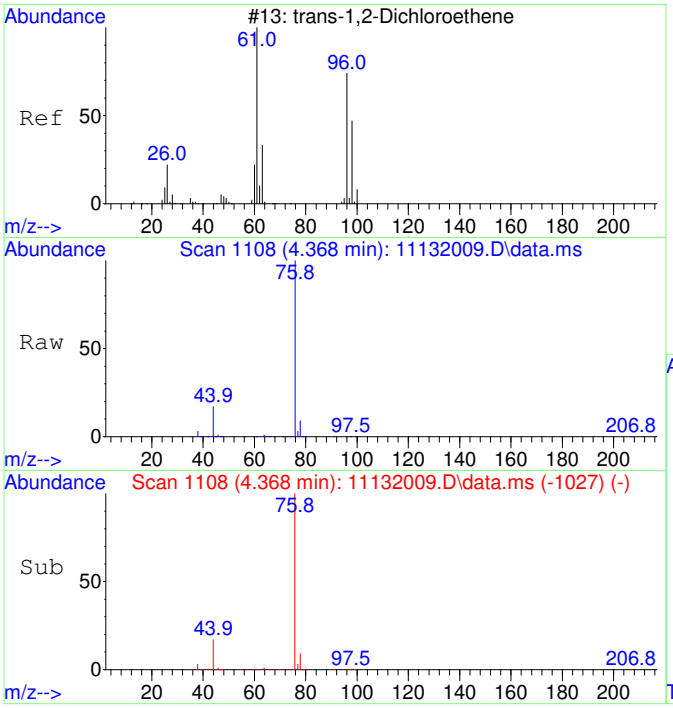


#26
1,1-Dichloroethene SCAN
Concen: 23.56 ug/L
RT: 3.092 min Scan# 809
Delta R.T. -0.015 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 61 Resp: 198

Ion	Ratio	Lower	Upper
61	100		
96	0.0	33.1	93.1#
98	56.1	11.2	71.2

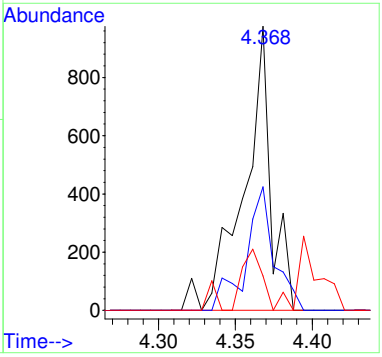


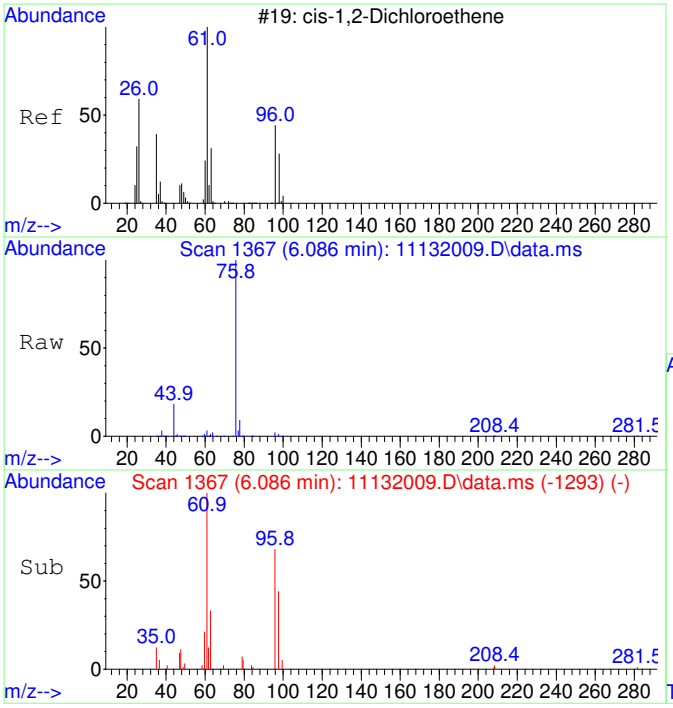


#27
trans-1,2-Dichloroethene SCAN
Concen: 115.78 ug/L
RT: 4.368 min Scan# 1108
Delta R.T. -0.033 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 61 Resp: 1204

Ion	Ratio	Lower	Upper
61	100		
96	45.0	49.0	109.0#
98	15.8	20.5	80.5#

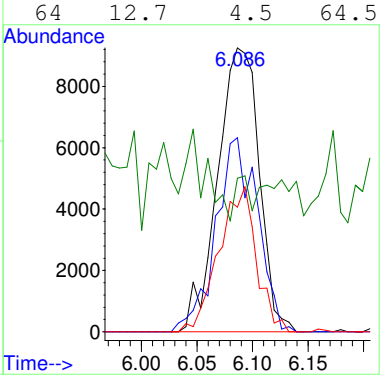


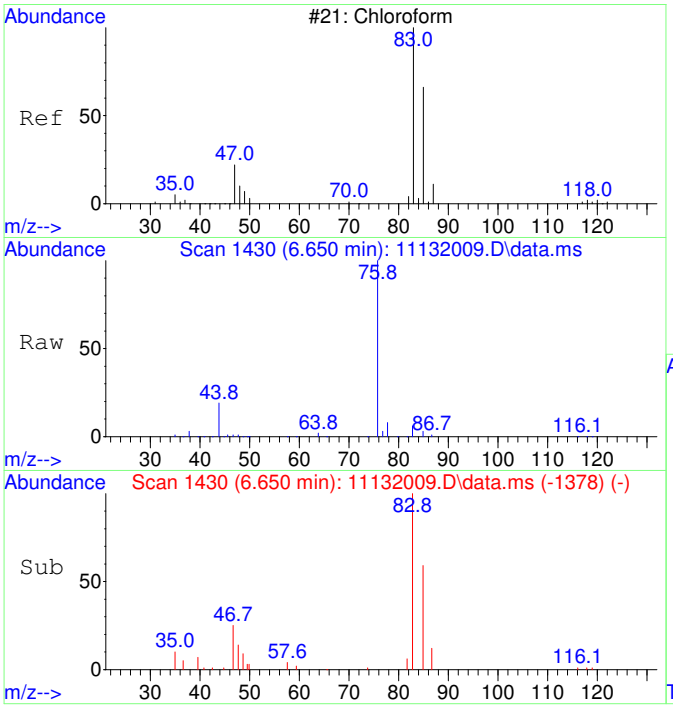


#29
cis-1,2-Dichloroethene SCAN
Concen: 1872.46 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 61 Resp: 24144

Ion	Ratio	Lower	Upper
61	100		
96	68.0	39.9	99.9
98	45.9	13.5	73.5
64	12.7	4.5	64.5

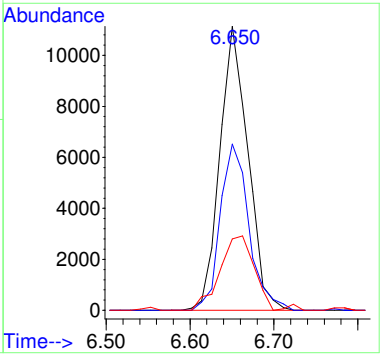


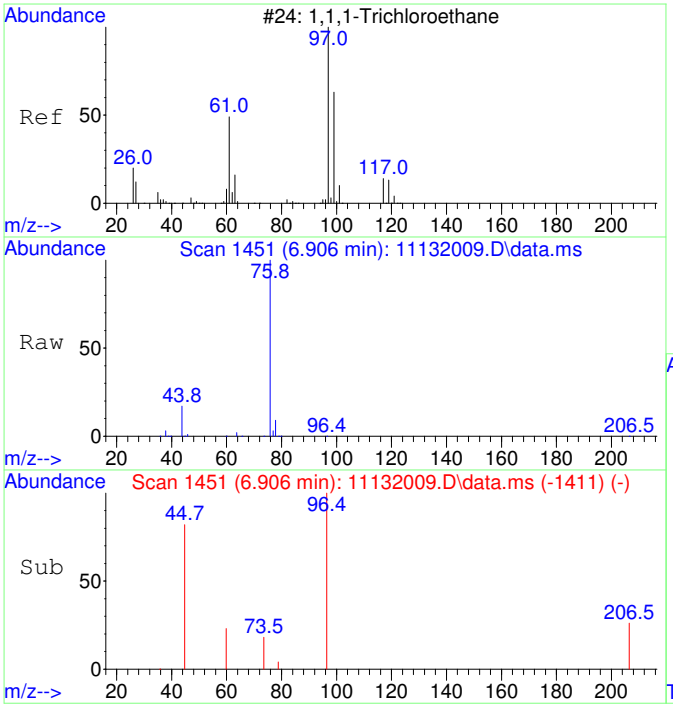


#30
Chloroform SCAN
Concen: 1853.18 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 83 Resp: 25918

Ion	Ratio	Lower	Upper
83	100		
85	59.7	34.6	94.6
47	31.2	0.0	53.4

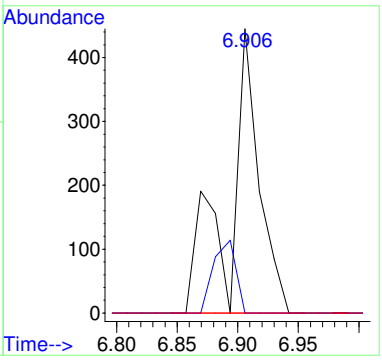


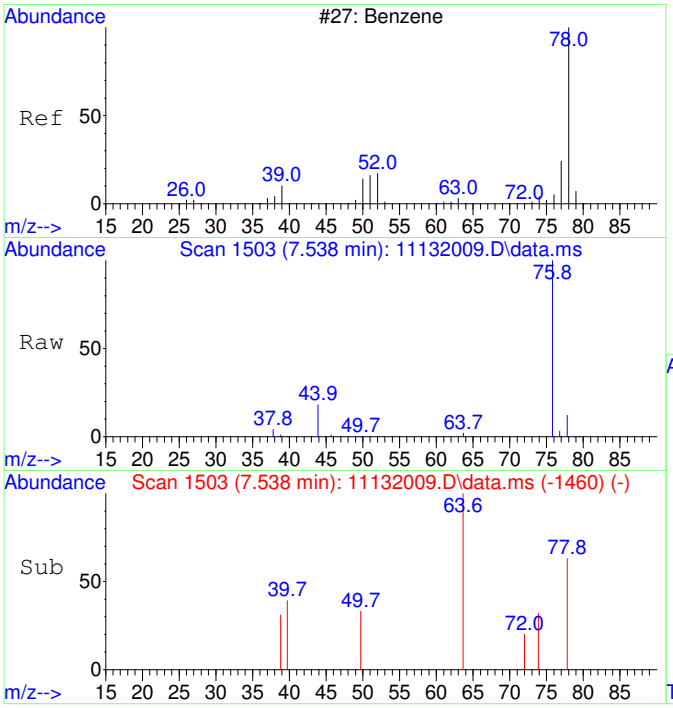


#31
1,1,1-Trichloroethane SCAN
Concen: 61.12 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 97 Resp: 779

Ion	Ratio	Lower	Upper
97	100		
99	18.9	43.6	103.6#
61	0.0	18.0	78.0#

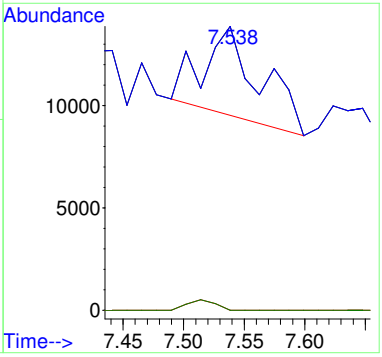


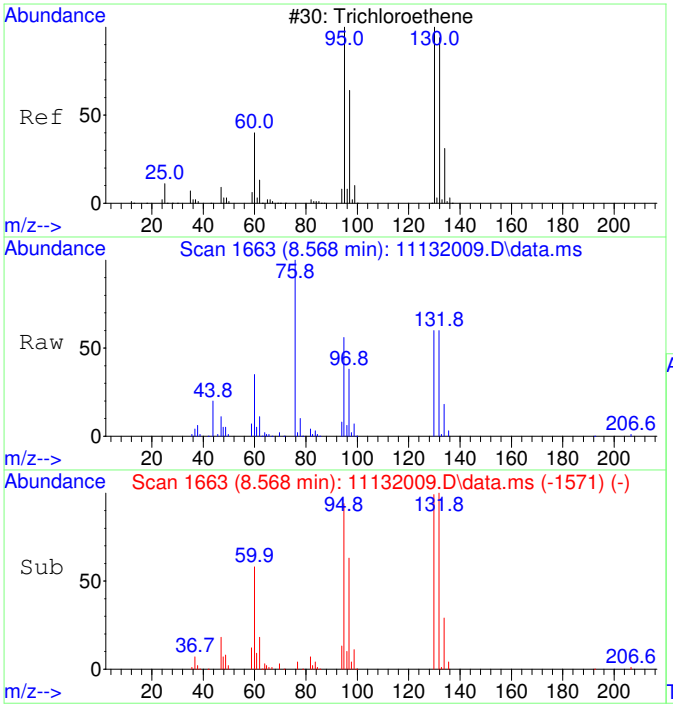


#33
Benzene SCAN
Concen: 381.95 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. 0.024 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 78 Resp: 13403

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

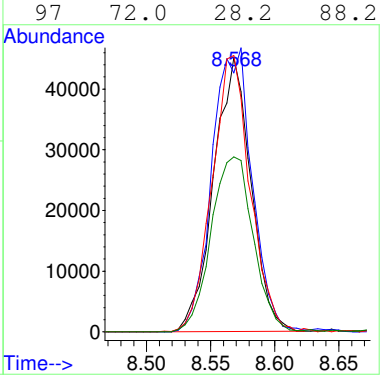


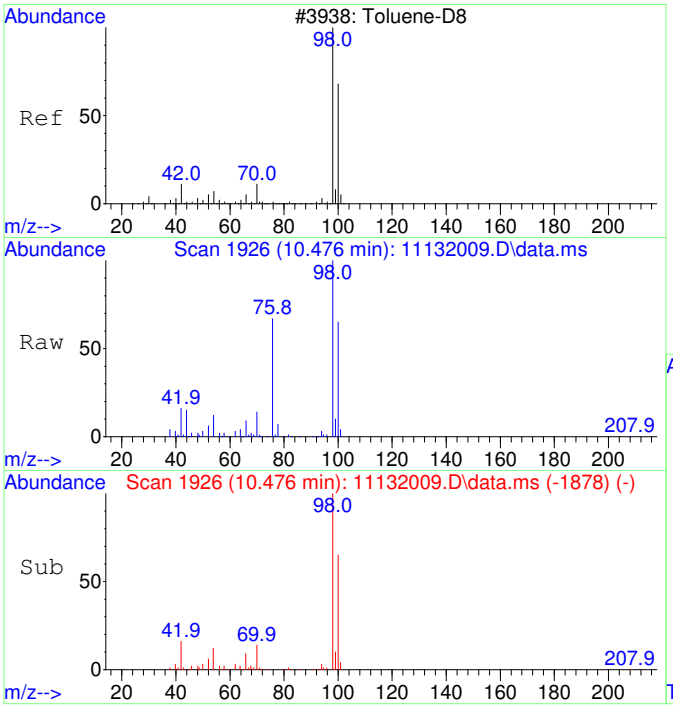


#35
Trichloroethene SCAN
Concen: 9451.18 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion:130 Resp: 91141

Ion	Ratio	Lower	Upper
130	100		
95	111.9	60.5	120.5
132	103.3	59.6	119.6
97	72.0	28.2	88.2

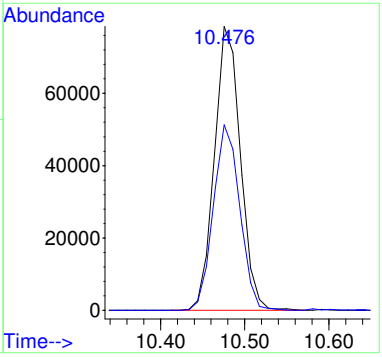


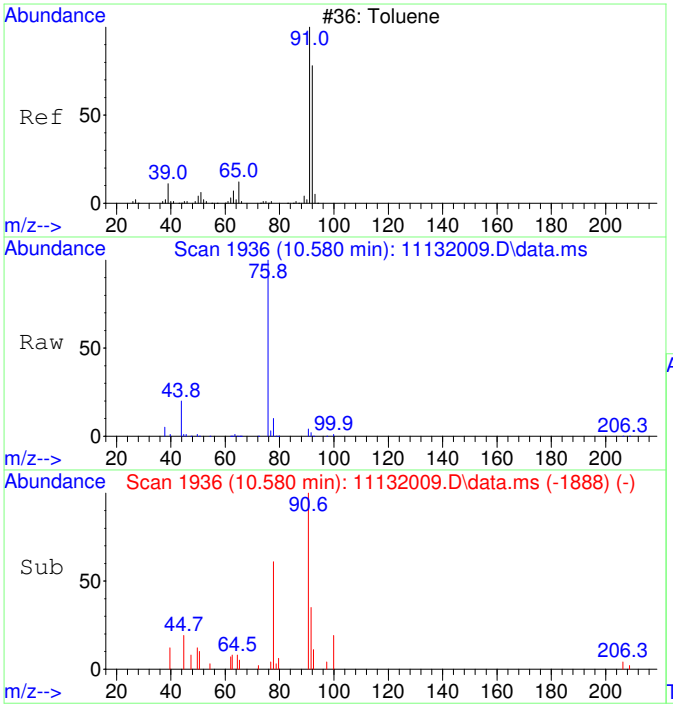


#36
Toluene-d8 SCAN
Concen: 4357.19 ug/L
RT: 10.476 min Scan# 1926
Delta R.T. 0.000 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 98 Resp: 168621

Ion	Ratio	Lower	Upper
98	100		
100	66.4	40.0	100.0

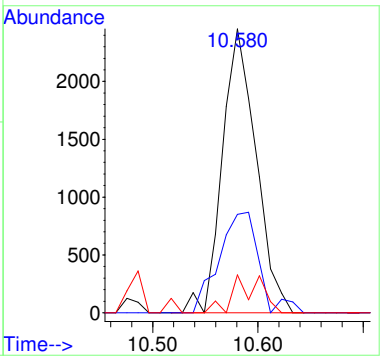


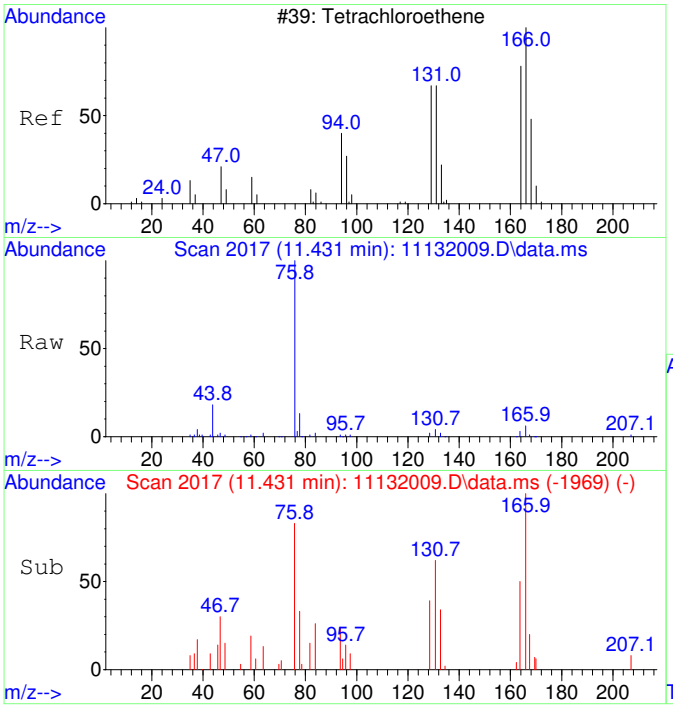


#37
Toluene SCAN
Concen: 110.19 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 91 Resp: 5461

Ion	Ratio	Lower	Upper
91	100		
92	42.2	28.3	88.3
65	11.0	0.0	41.0

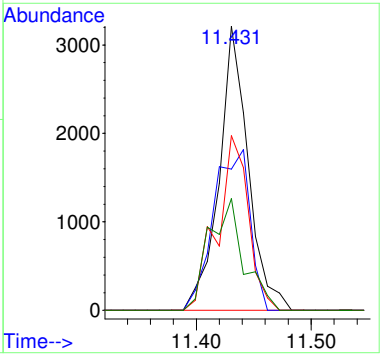


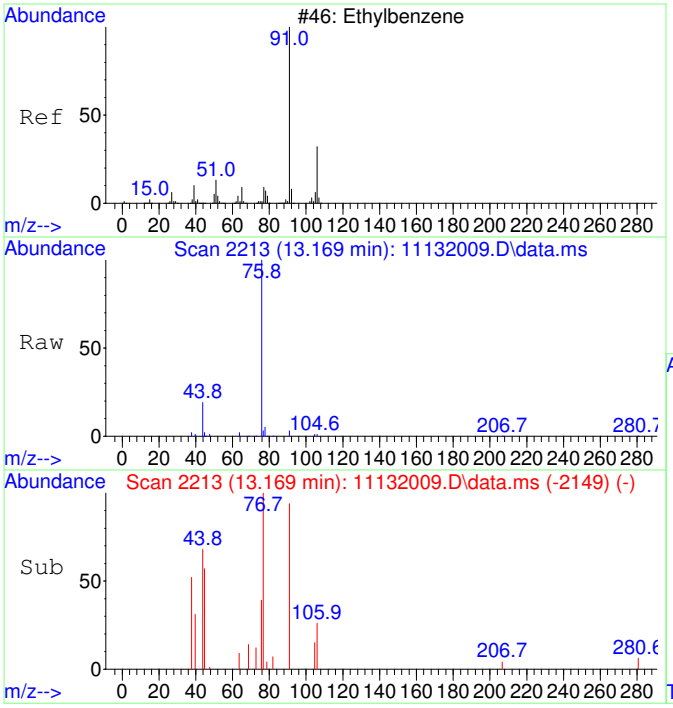


#39
Tetrachloroethene SCAN
Concen: 475.36 ug/L
RT: 11.431 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion:166 Resp: 5660

Ion	Ratio	Lower	Upper
166	100		
164	71.4	50.9	110.9
131	66.2	38.7	98.7
129	46.8	41.8	101.8

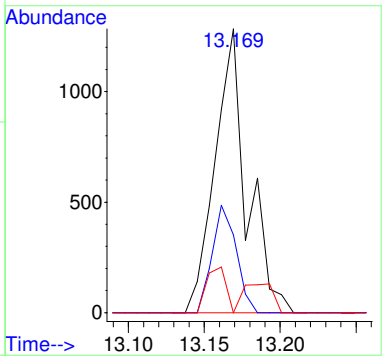


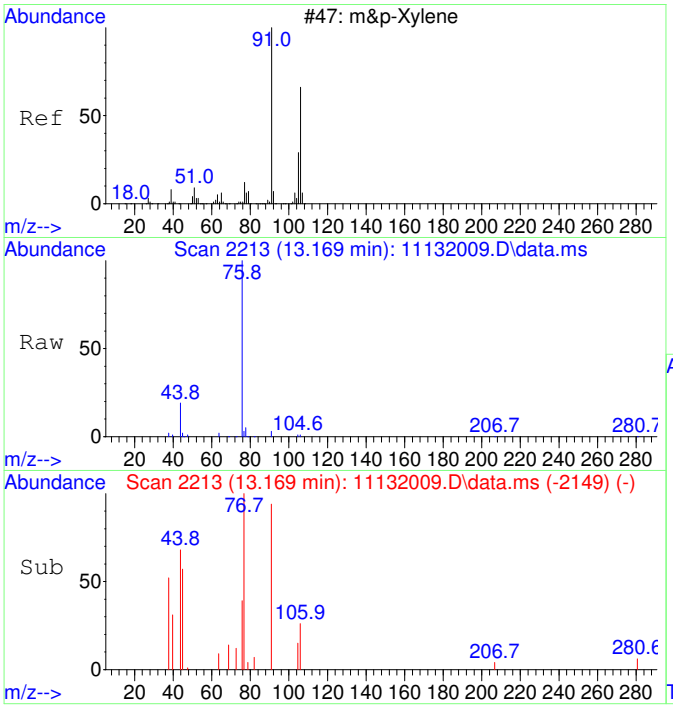


#42
Ethylbenzene SCAN
Concen: 20.84 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 91 Resp: 1882

Ion	Ratio	Lower	Upper
91	100		
106	28.4	23.1	83.1
51	9.8	0.0	40.1

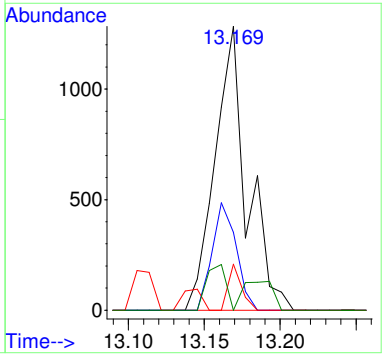




#43
m&p-Xylene SCAN
Concen: 20.84 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11132009.D
Acq: 13 Nov 2020 13:55

Tgt Ion: 91 Resp: 1882

Ion	Ratio	Lower	Upper
91	100		
106	28.4	23.1	83.1
105	6.7	0.0	54.7
51	9.8	0.0	40.1



2011015-04RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132010.D
Acq On : 13 Nov 2020 14:18
InstName : AG5975C
Operator : TD
Sample : 2011015-04RE1
Misc : 10X DL (180-20)
ALS Vial : 10 Sample Multiplier: 10

Quant Time: Nov 16 08:53:42 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

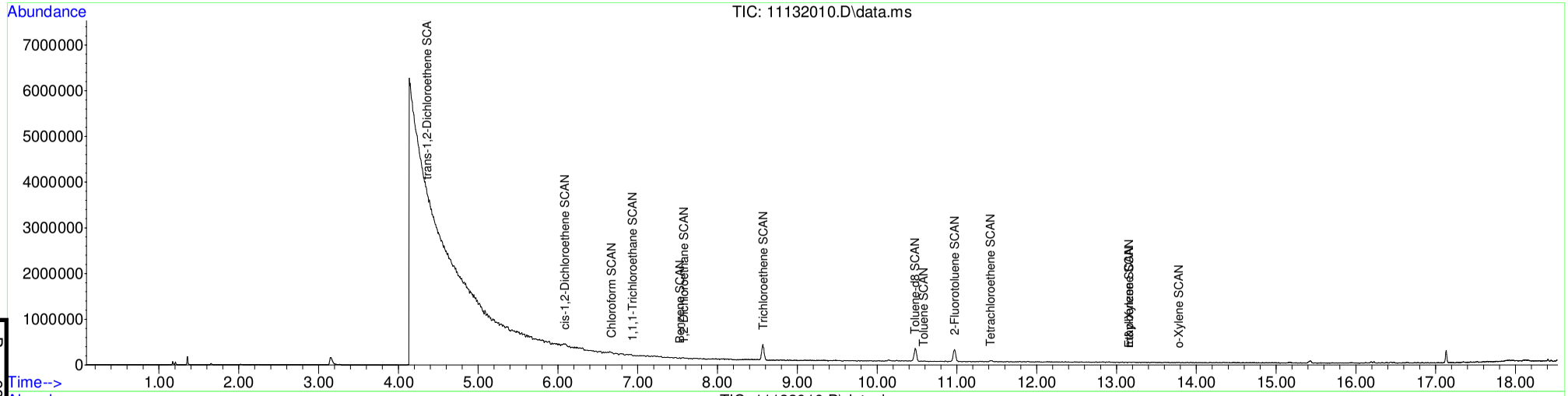
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.970	109	472707	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	397728	4298.02 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 85.96%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.097	61	1982	105.00 ug/L	88
3] trans-1,2-Dichloroethene	4.382	61	2949	135.22 ug/L	87
4] 1,1-Dichloroethane	5.086	63	1467	54.04 ug/L	72
5] cis-1,2-Dichloroethene	6.088	61	53369	1862.39 ug/L	99
6] Chloroform	6.652	83	47371	1615.06 ug/L	99
7] 1,1,1-Trichloroethane	6.919	97	1761	55.28 ug/L	99
9] Benzene	7.503	78	3445	42.89 ug/L #	18
11] Trichloroethene	8.569	130	242217	10016.43 ug/L RPT	93
13] Toluene	10.571	91	13078	110.85 ug/L	98
15] Tetrachloroethene	11.432	166	15304	448.24 ug/L	100
19] m&p-Xylene	13.162	91	4413	39.32 ug/L	87
25) 2-Fluorotoluene SCAN	10.969	109	226665	4918.92 ug/L	97
27) trans-1,2-Dichloroethe...	4.361	61	534	44.10 ug/L	94
29) cis-1,2-Dichloroethene...	6.086	61	28353	1888.28 ug/L	86
30) Chloroform SCAN	6.662	83	24091	1479.24 ug/L	95
31) 1,1,1-Trichloroethane ...	6.930	97	801	53.97 ug/L #	61
33) Benzene SCAN	7.526	78	23013	563.17 ug/L	94
34) 1,2-Dichloroethane SCAN	7.575	62	333	22.07 ug/L #	40
35) Trichloroethene SCAN	8.568	130	112583	10025.61 ug/L	82
36) Toluene-d8 SCAN	10.475	98	211736	4698.45 ug/L	97
37) Toluene SCAN	10.580	91	6672	115.61 ug/L	88
39) Tetrachloroethene SCAN	11.420	166	8386	604.82 ug/L	86
42) Ethylbenzene SCAN	13.153	91	2481	23.60 ug/L	83
43) m&p-Xylene SCAN	13.153	91	2481	23.60 ug/L	88
44) o-Xylene SCAN	13.781	91	1269	22.55 ug/L	86

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132010.D
Acq On : 13 Nov 2020 14:18
InstName : AG5975C
Operator : TD
Sample : 2011015-04RE1
Misc : 10X DL (180-20)
ALS Vial : 10 Sample Multiplier: 10

Quant Time: Nov 16 08:53:42 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



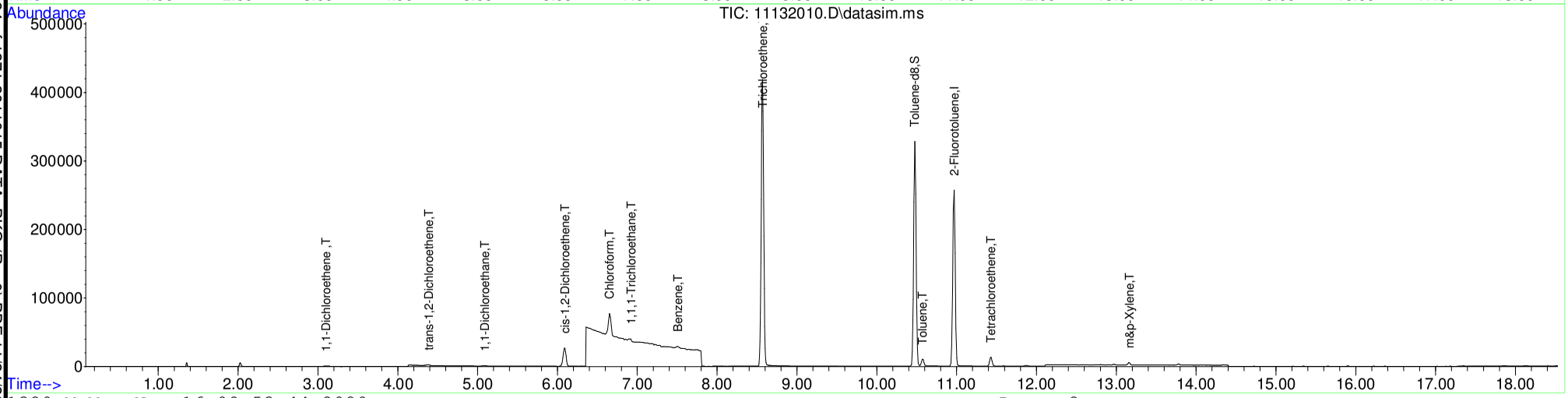
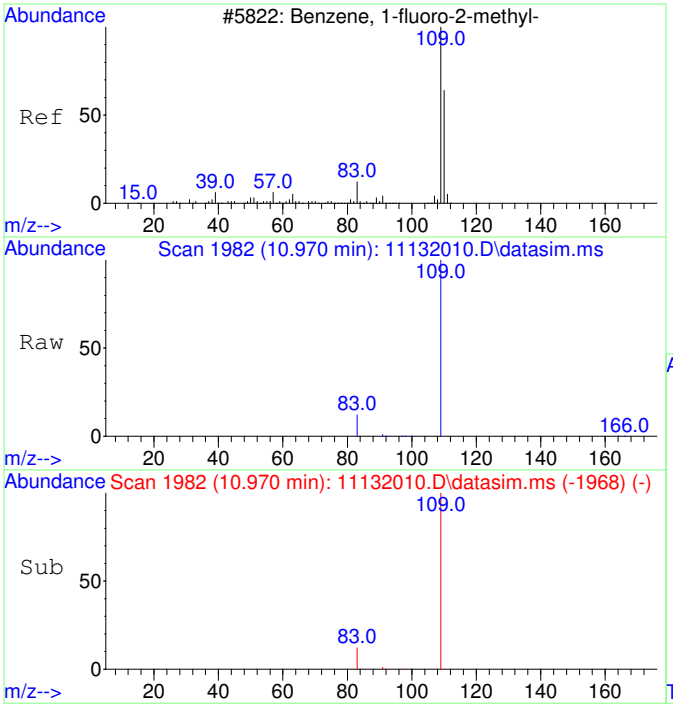


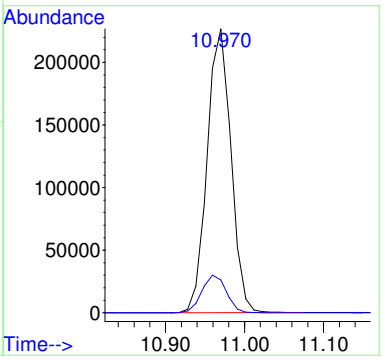
Table of Contents

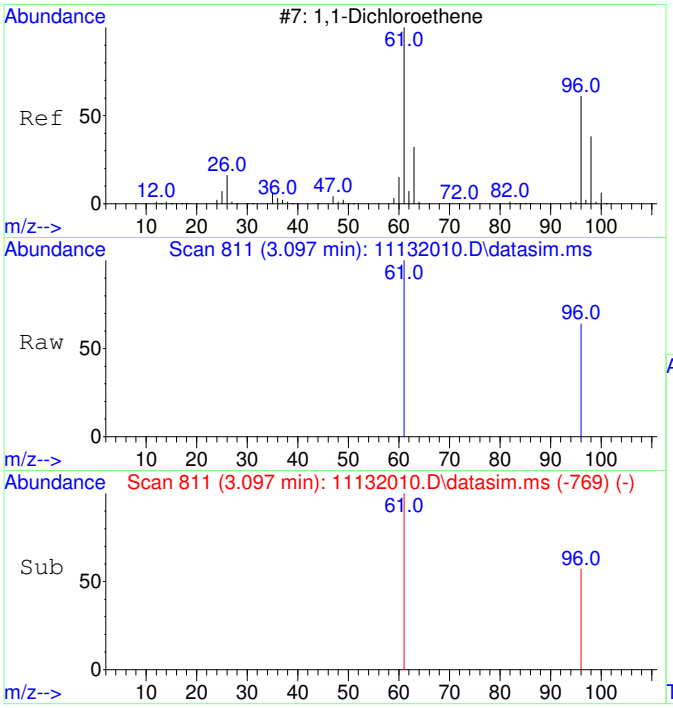


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion:109 Resp: 472707

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	42.3

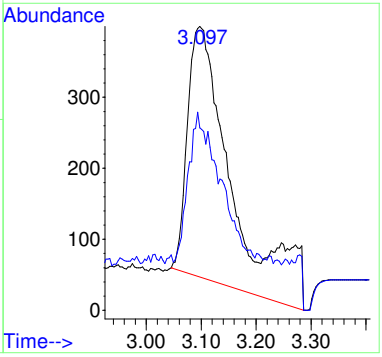


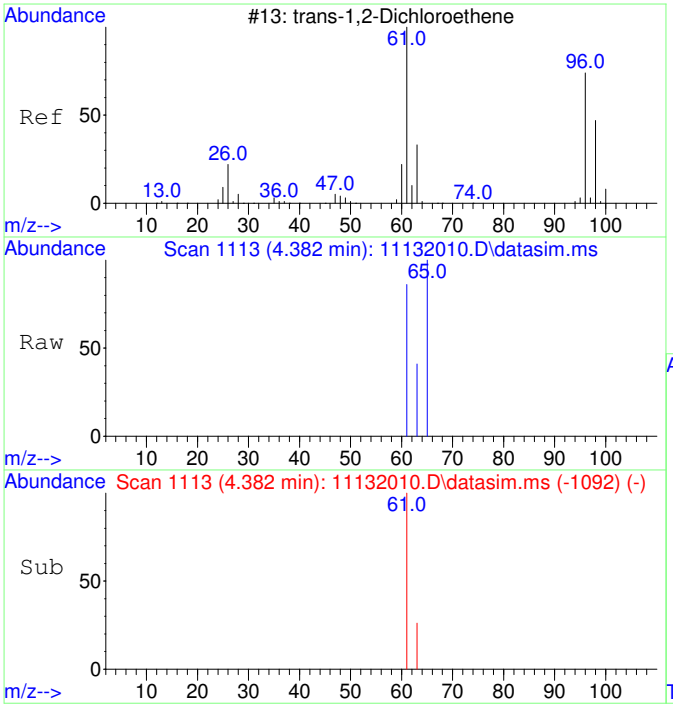


#2
1,1-Dichloroethene
Concen: 105.00 ug/L
RT: 3.097 min Scan# 811
Delta R.T. 0.007 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 61 Resp: 1982

Ion	Ratio	Lower	Upper
61	100		
96	57.5	37.2	97.2

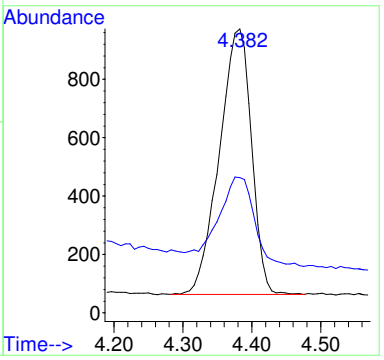


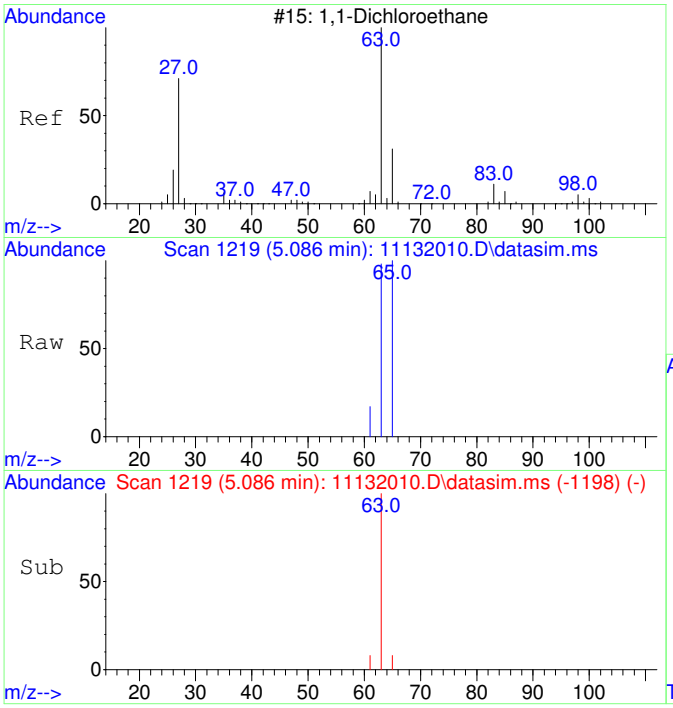


#3
trans-1,2-Dichloroethene
Concen: 135.22 ug/L
RT: 4.382 min Scan# 1113
Delta R.T. -0.013 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 61 Resp: 2949

Ion	Ratio	Lower	Upper
61	100		
63	39.4	2.4	62.4

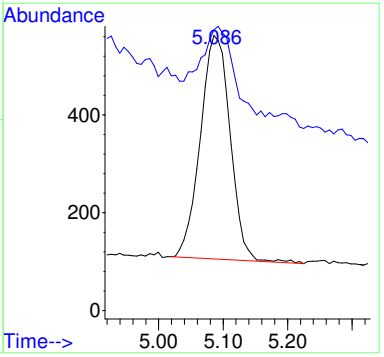


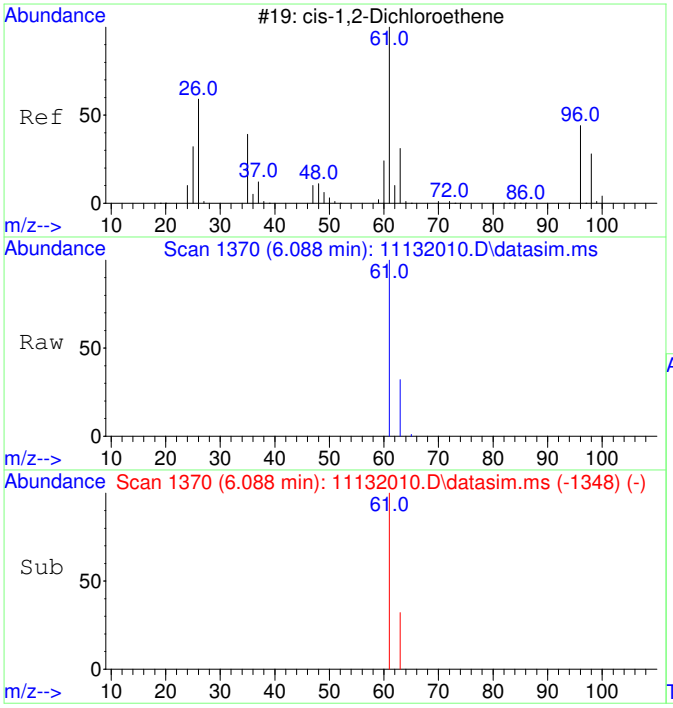


#4
1,1-Dichloroethane
Concen: 54.04 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. -0.013 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 63 Resp: 1467

Ion	Ratio	Lower	Upper
63	100		
65	47.5	1.8	61.8

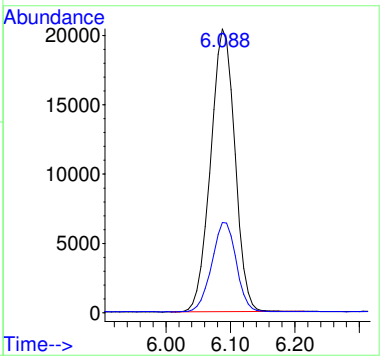


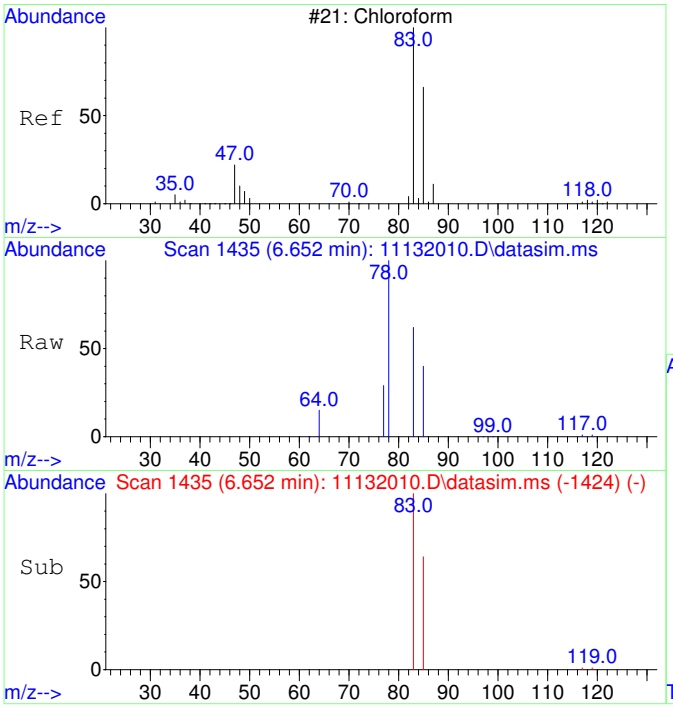


#5
cis-1,2-Dichloroethene
Concen: 1862.39 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 61 Resp: 53369

Ion	Ratio	Lower	Upper
61	100		
63	31.7	2.5	62.5

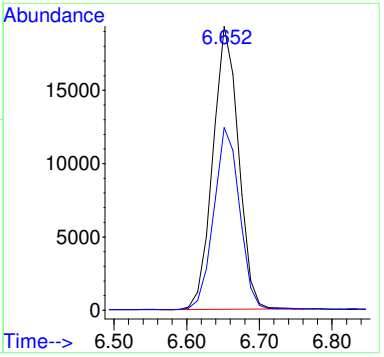


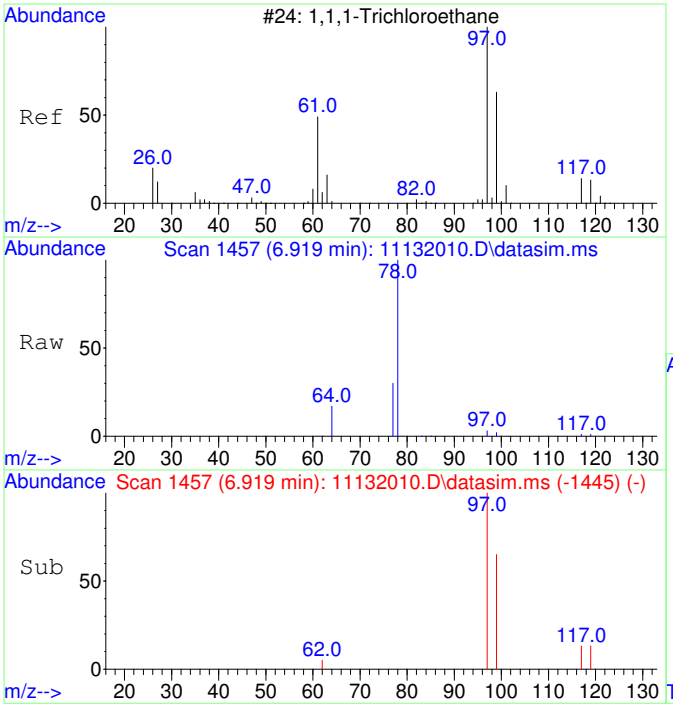


#6
Chloroform
Concen: 1615.06 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 83 Resp: 47371

Ion	Ratio	Lower	Upper
83	100		
85	64.4	35.1	95.1

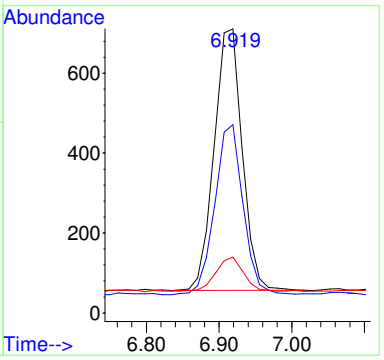


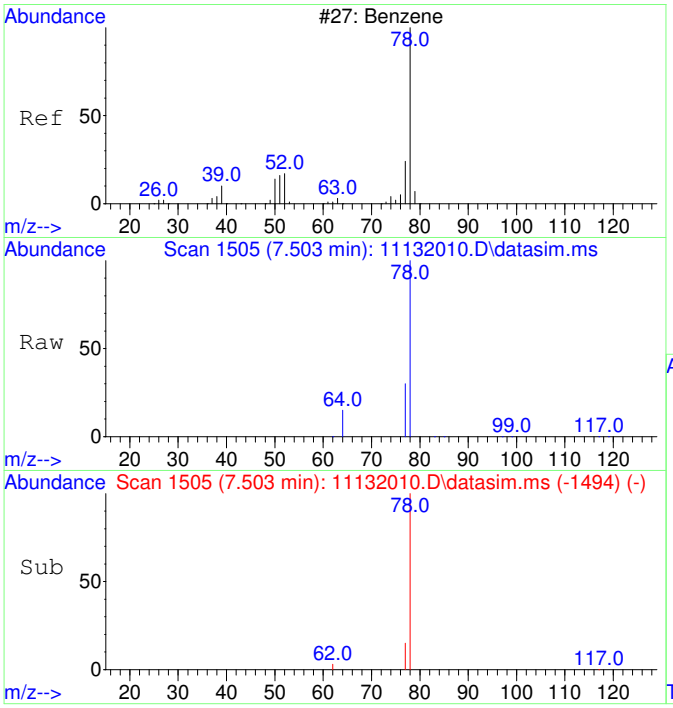


#7
1,1,1-Trichloroethane
Concen: 55.28 ug/L
RT: 6.919 min Scan# 1457
Delta R.T. -0.000 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 97 Resp: 1761

Ion	Ratio	Lower	Upper
97	100		
99	65.0	34.6	94.6
117	12.5	0.0	43.2

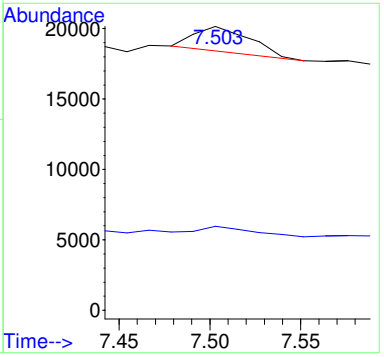


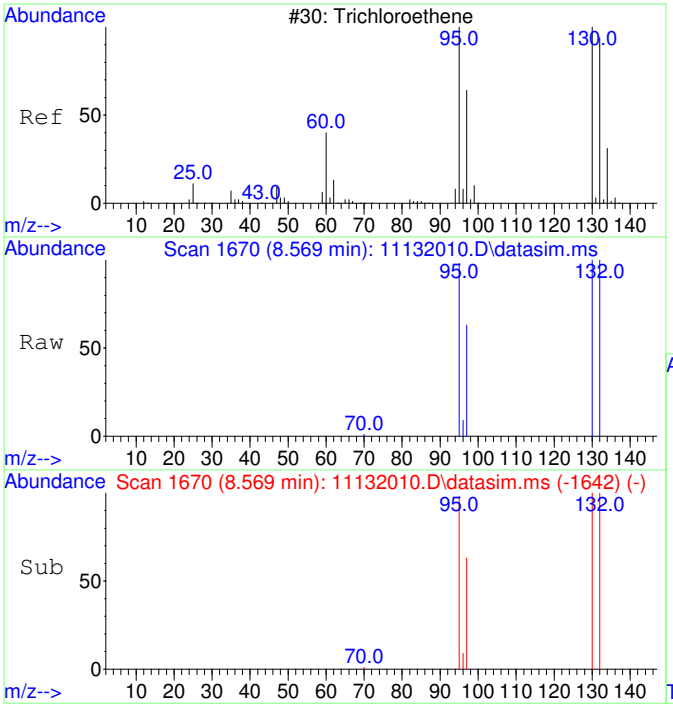


#9
Benzene
Concen: 42.89 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 78 Resp: 3445

Ion	Ratio	Lower	Upper
78	100		
77	63.2	0.0	53.2#

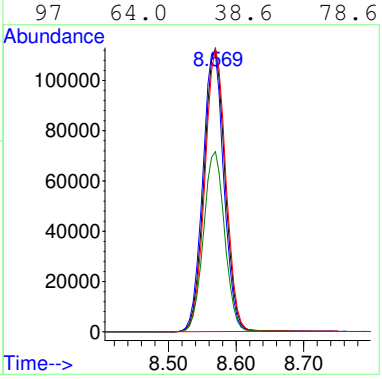


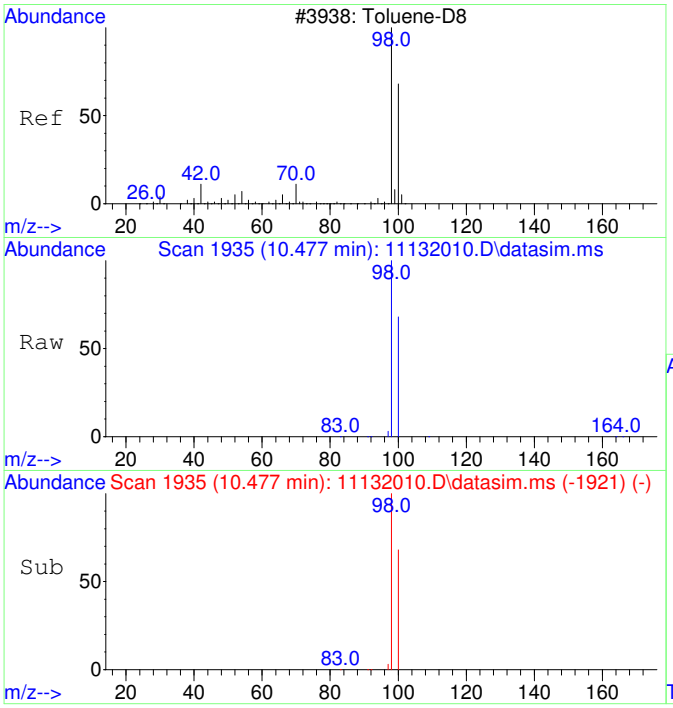


#11
Trichloroethene
Concen: 10016.43 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion:130 Resp: 242217

Ion	Ratio	Lower	Upper
130	100		
95	99.4	60.7	120.7
132	99.4	76.0	116.0
97	64.0	38.6	78.6

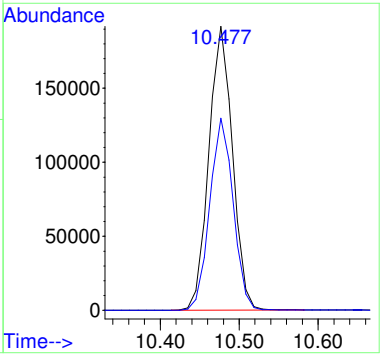


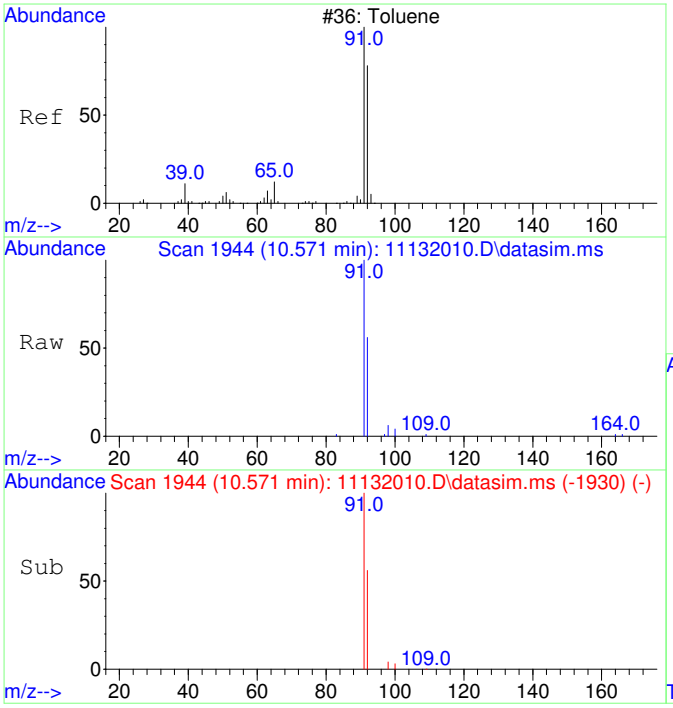


#12
Toluene-d8
Concen: 4298.02 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 98 Resp: 397728

Ion	Ratio	Lower	Upper
98	100		
100	66.9	37.1	97.1

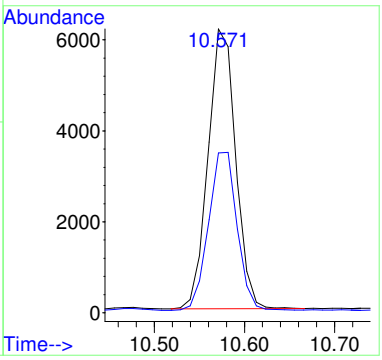


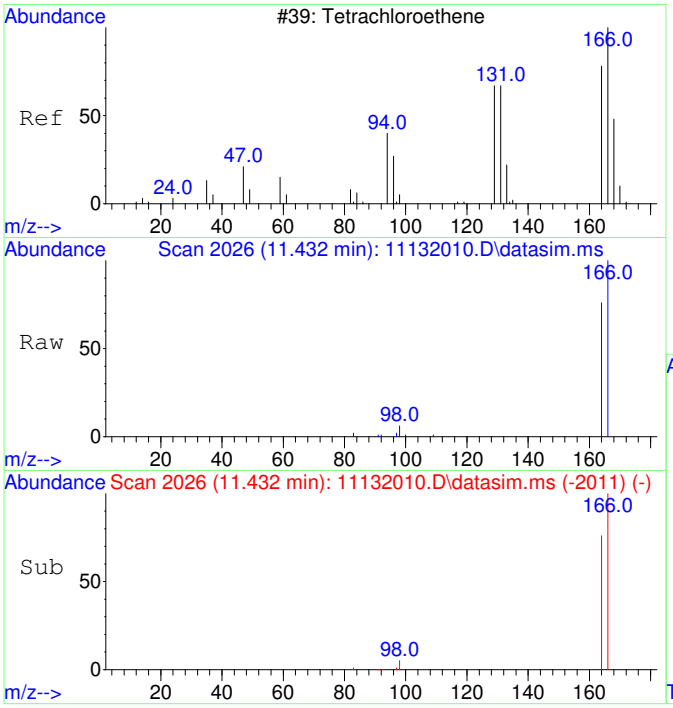


#13
Toluene
Concen: 110.85 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 91 Resp: 13078

Ion	Ratio	Lower	Upper
91	100		
92	58.4	29.9	89.9

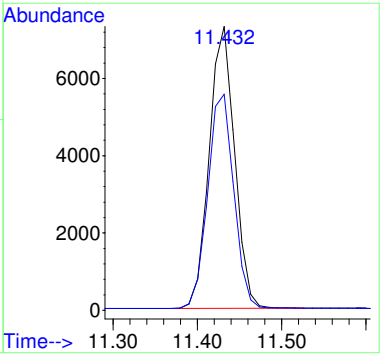


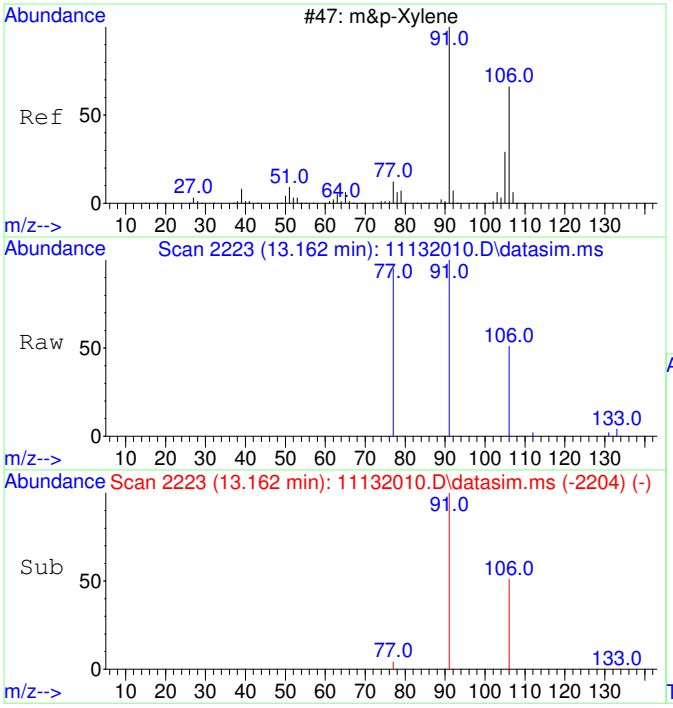


#15
Tetrachloroethene
Concen: 448.24 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion:166 Resp: 15304

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

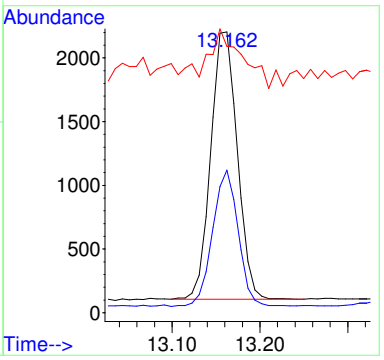


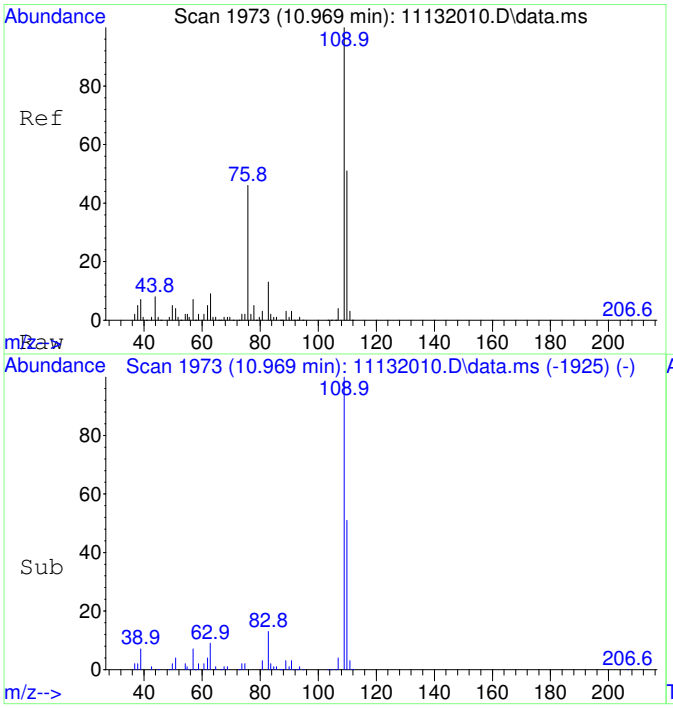


#19
m&p-Xylene
Concen: 39.32 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 91 Resp: 4413

Ion	Ratio	Lower	Upper
91	100		
106	48.7	22.2	82.2
77	31.2	0.0	42.4

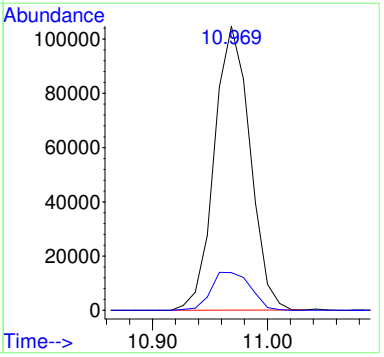


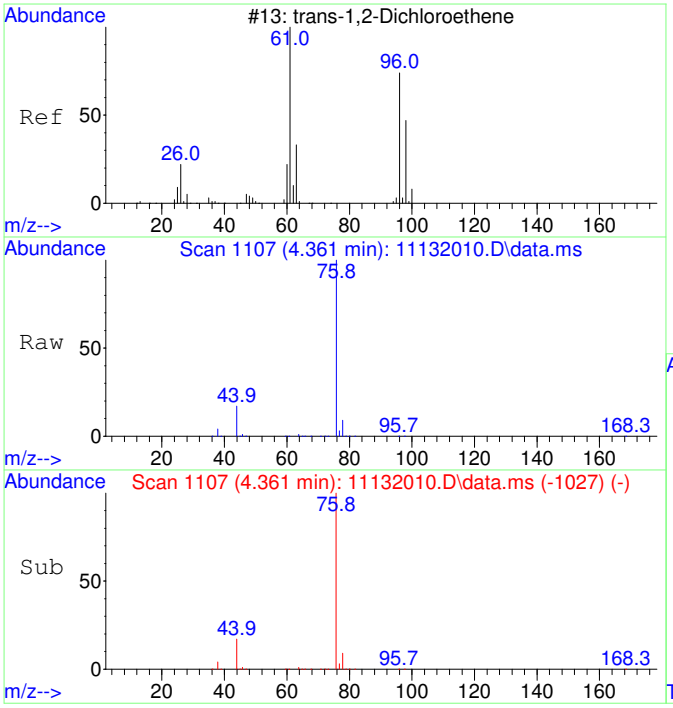


#25
2-Fluorotoluene SCAN
Concen: 4918.92 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion:109 Resp: 226665

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	43.8

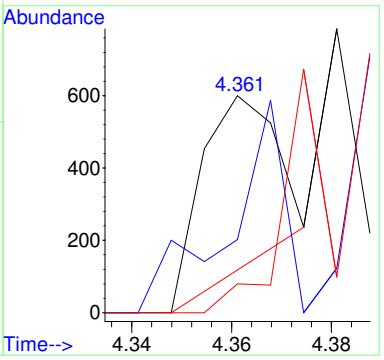


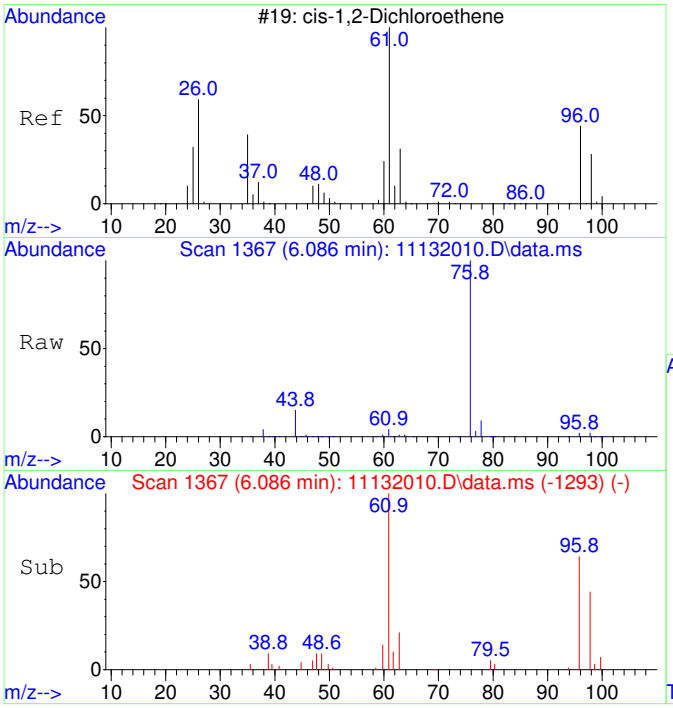


#27
trans-1,2-Dichloroethene SCAN
Concen: 44.10 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. -0.040 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 61 Resp: 534

Ion	Ratio	Lower	Upper
61	100		
96	84.3	49.0	109.0
98	54.5	20.5	80.5

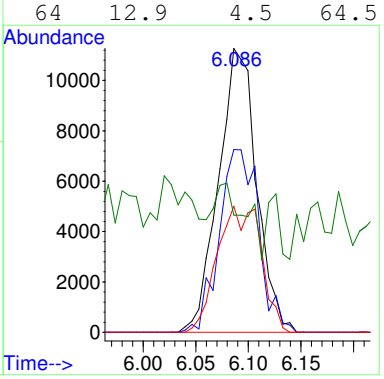


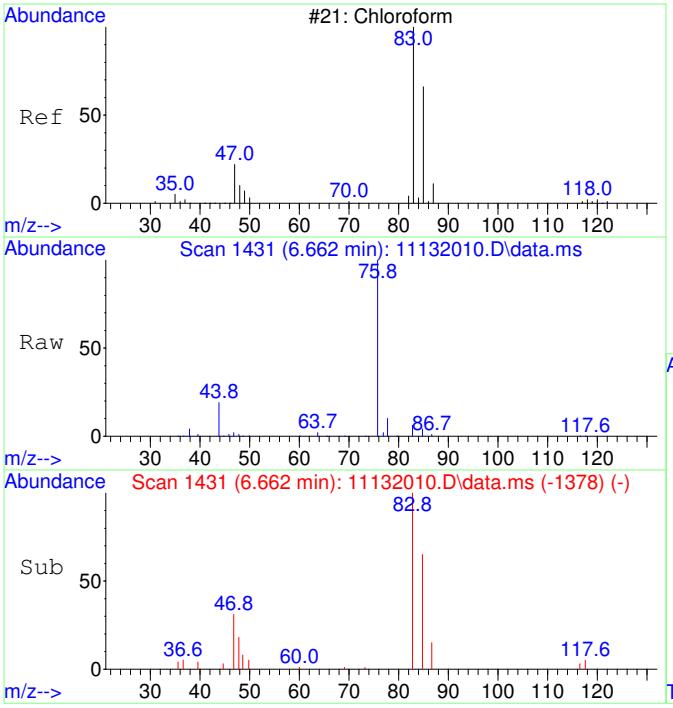


#29
cis-1,2-Dichloroethene SCAN
Concen: 1888.28 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 61 Resp: 28353

Ion	Ratio	Lower	Upper
61	100		
96	66.7	39.9	99.9
98	51.5	13.5	73.5
64	12.9	4.5	64.5

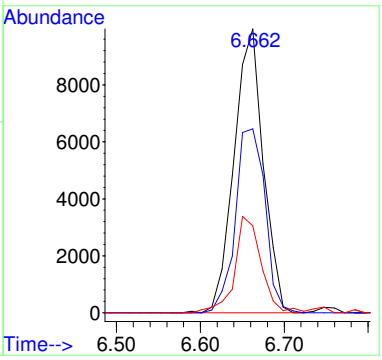


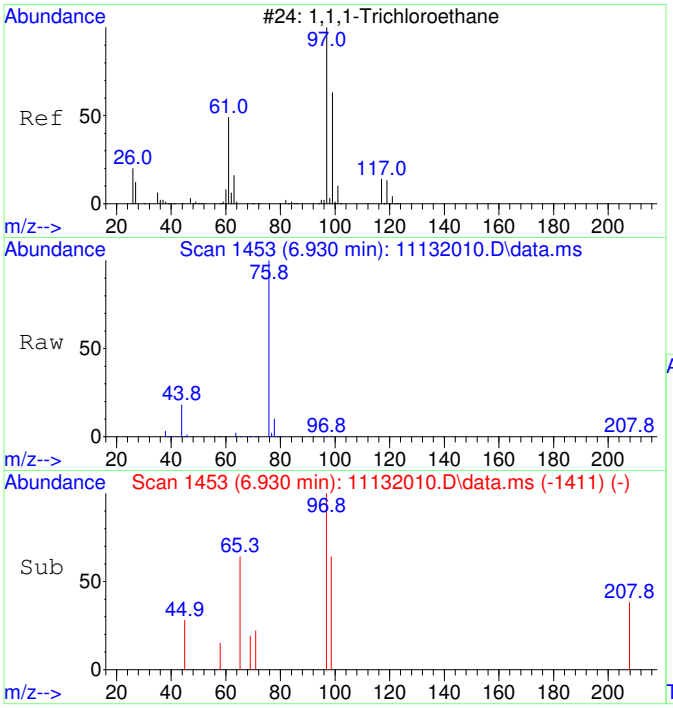


#30
Chloroform SCAN
Concen: 1479.24 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. -0.000 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 83 Resp: 24091

Ion	Ratio	Lower	Upper
83	100		
85	65.9	34.6	94.6
47	29.8	0.0	53.4

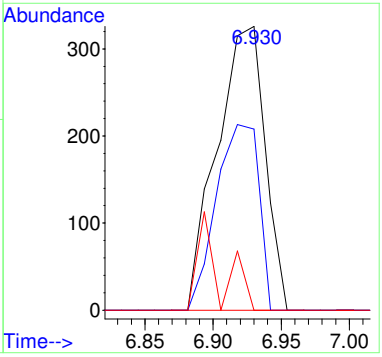


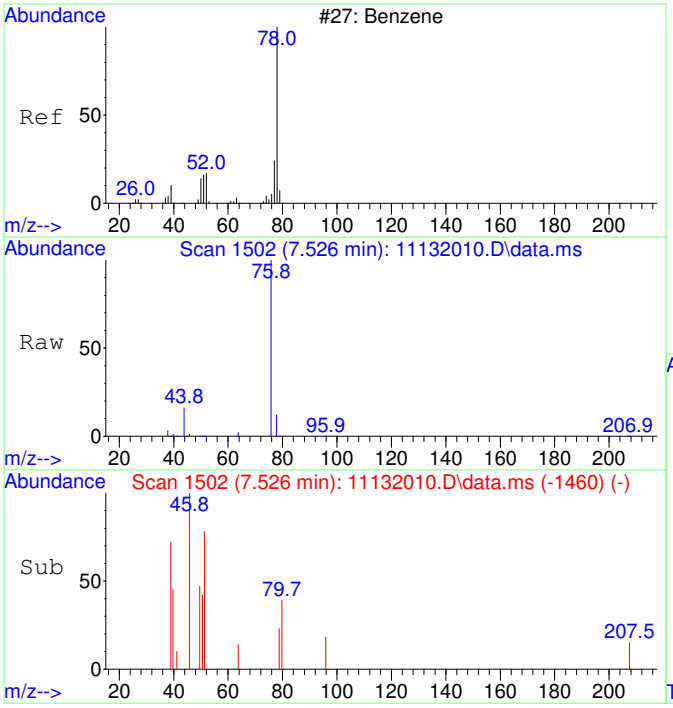


#31
1,1,1-Trichloroethane SCAN
Concen: 53.97 ug/L
RT: 6.930 min Scan# 1453
Delta R.T. 0.012 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 97 Resp: 801

Ion	Ratio	Lower	Upper
97	100		
99	57.9	43.6	103.6
61	0.0	18.0	78.0#

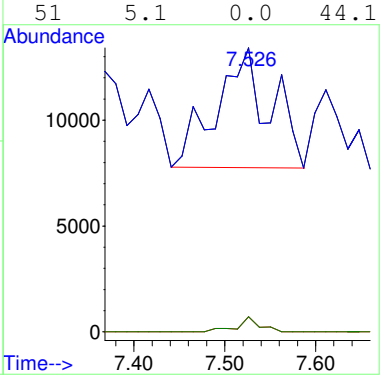


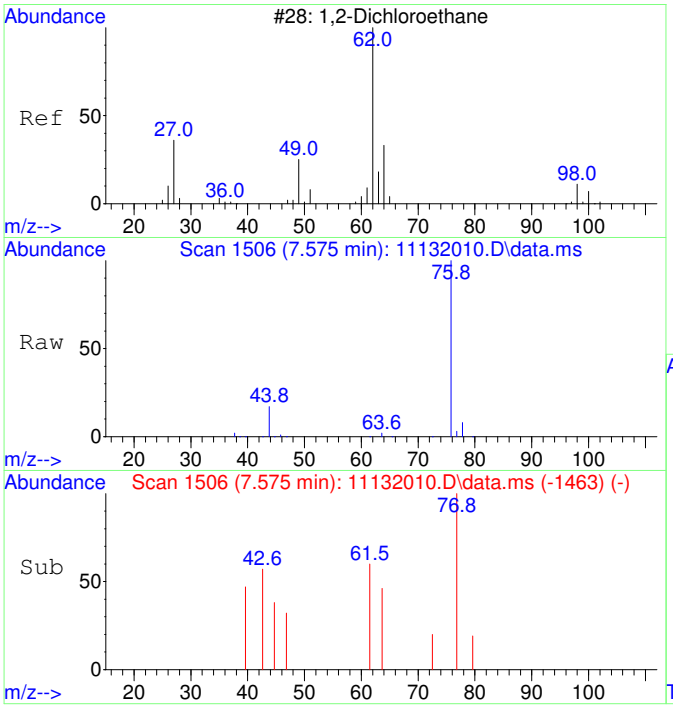


#33
Benzene SCAN
Concen: 563.17 ug/L
RT: 7.526 min Scan# 1502
Delta R.T. 0.012 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 78 Resp: 23013

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	5.1	0.0	47.9
51	5.1	0.0	44.1

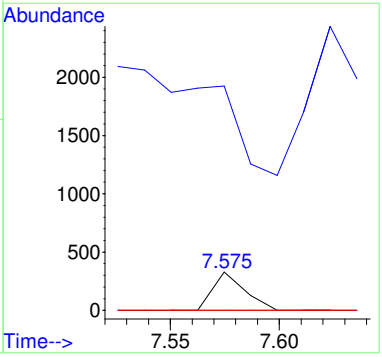


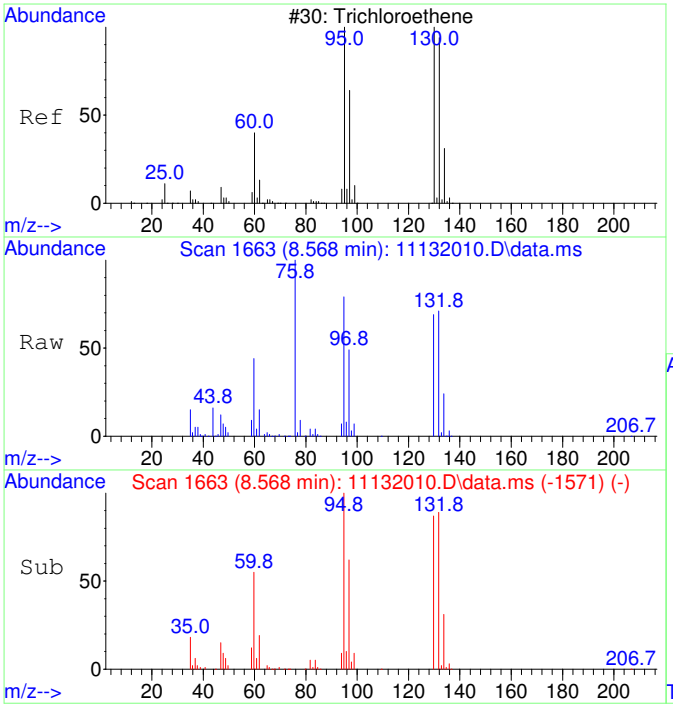


#34
1,2-Dichloroethane SCAN
Concen: 22.07 ug/L
RT: 7.575 min Scan# 1506
Delta R.T. 0.024 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 62 Resp: 333

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

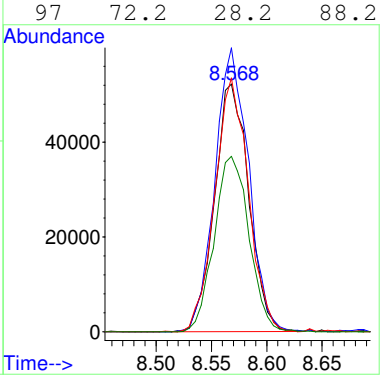


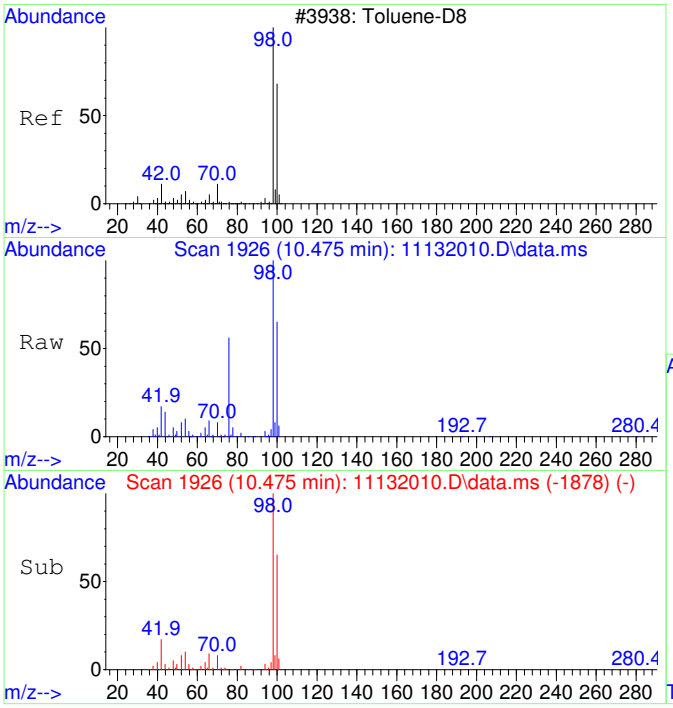


#35
Trichloroethene SCAN
Concen: 10025.61 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion:130 Resp: 112583

Ion	Ratio	Lower	Upper
130	100		
95	112.2	60.5	120.5
132	100.4	59.6	119.6
97	72.2	28.2	88.2

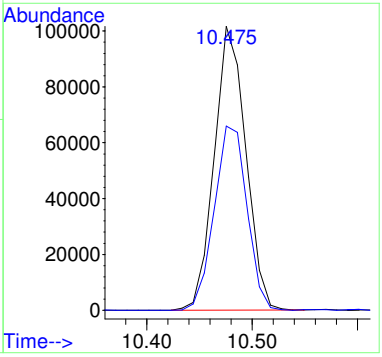


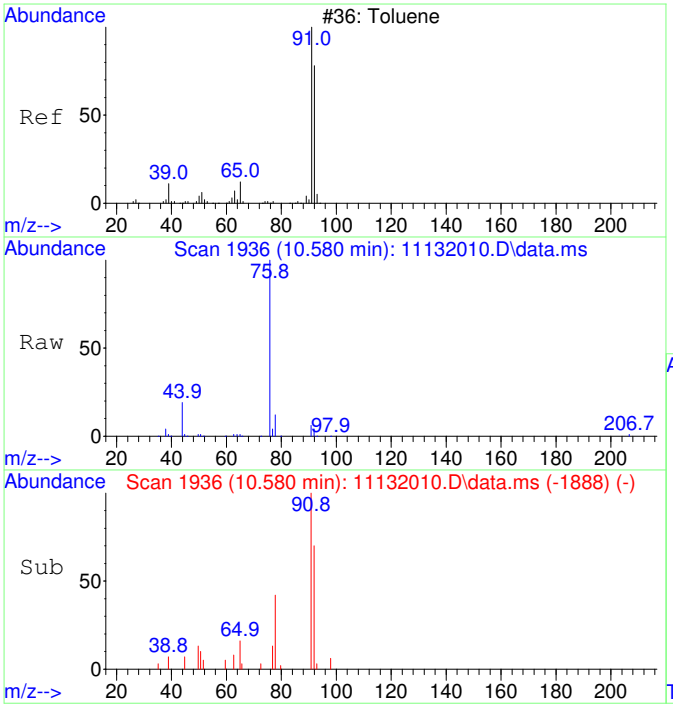


#36
Toluene-d8 SCAN
Concen: 4698.45 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 98 Resp: 211736

Ion	Ratio	Lower	Upper
98	100		
100	67.5	40.0	100.0

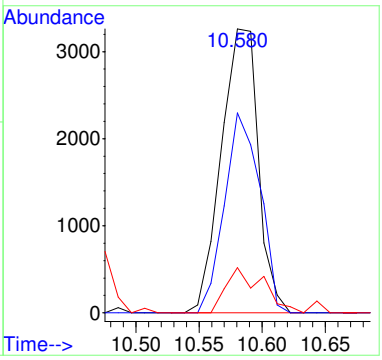


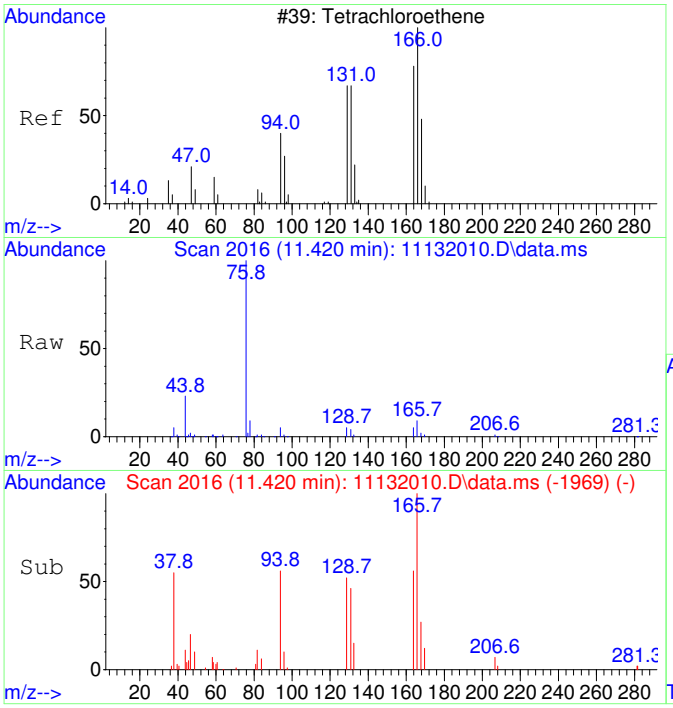


#37
Toluene SCAN
Concen: 115.61 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 91 Resp: 6672

Ion	Ratio	Lower	Upper
91	100		
92	67.4	28.3	88.3
65	15.8	0.0	41.0

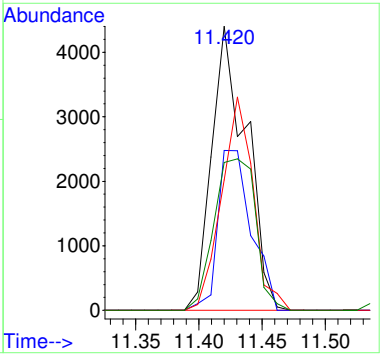


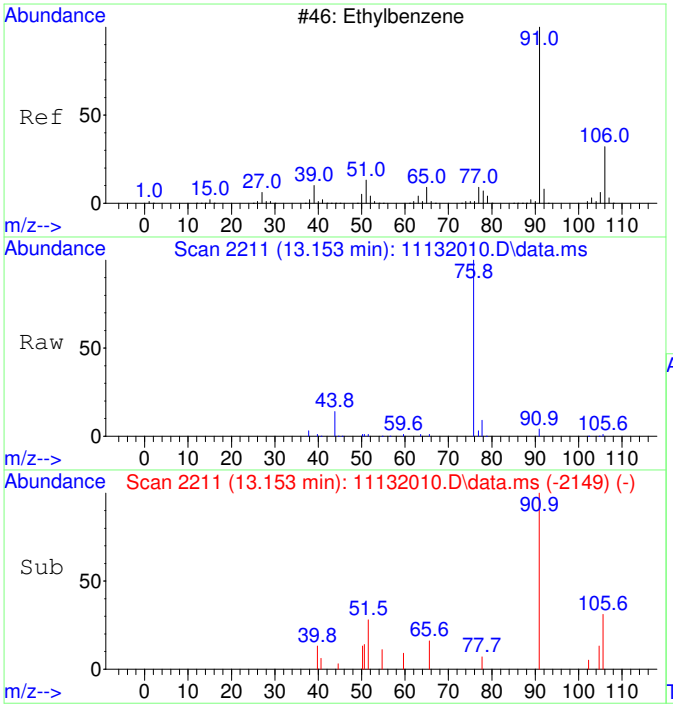


#39
Tetrachloroethene SCAN
Concen: 604.82 ug/L
RT: 11.420 min Scan# 2016
Delta R.T. -0.011 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion:166 Resp: 8386

Ion	Ratio	Lower	Upper
166	100		
164	54.8	50.9	110.9
131	68.7	38.7	98.7
129	64.1	41.8	101.8

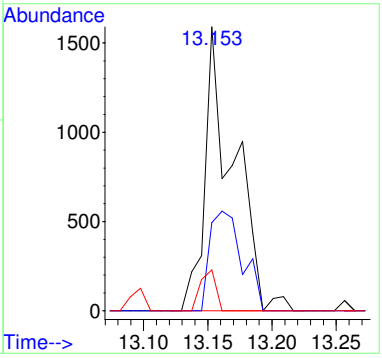


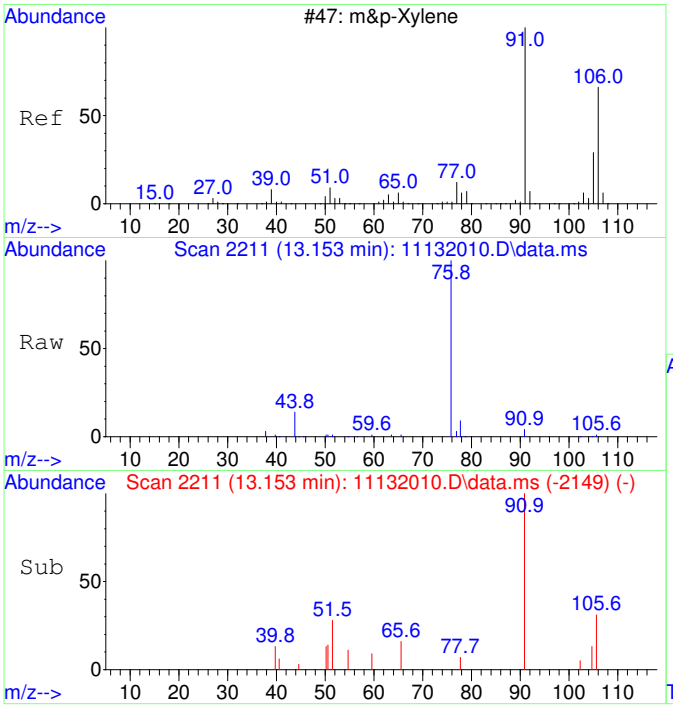


#42
Ethylbenzene SCAN
Concen: 23.60 ug/L
RT: 13.153 min Scan# 2211
Delta R.T. -0.008 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 91 Resp: 2481

Ion	Ratio	Lower	Upper
91	100		
106	39.7	23.1	83.1
51	7.8	0.0	40.1

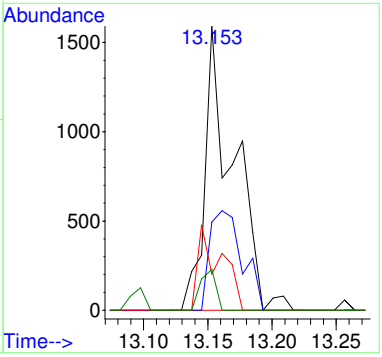


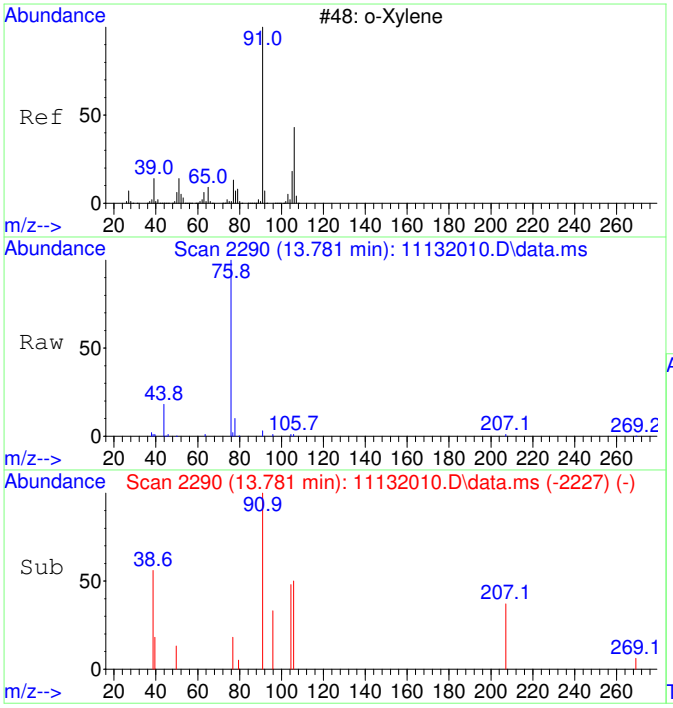


#43
m&p-Xylene SCAN
Concen: 23.60 ug/L
RT: 13.153 min Scan# 2211
Delta R.T. -0.008 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 91 Resp: 2481

Ion	Ratio	Lower	Upper
91	100		
106	39.7	23.1	83.1
105	24.1	0.0	54.7
51	7.8	0.0	40.1

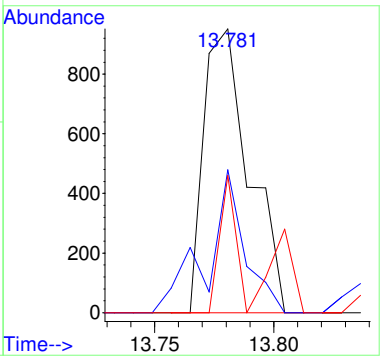




#44
o-Xylene SCAN
Concen: 22.55 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.000 min
Lab File: 11132010.D
Acq: 13 Nov 2020 14:18

Tgt Ion: 91 Resp: 1269

Ion	Ratio	Lower	Upper
91	100		
106	41.6	18.0	78.0
105	15.1	0.0	56.6



2011015-05RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132011.D
Acq On : 13 Nov 2020 14:42
InstName : AG5975C
Operator : TD
Sample : 2011015-05RE1
Misc : 10X DL (180-20)
ALS Vial : 11 Sample Multiplier: 10

Quant Time: Nov 16 08:53:48 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

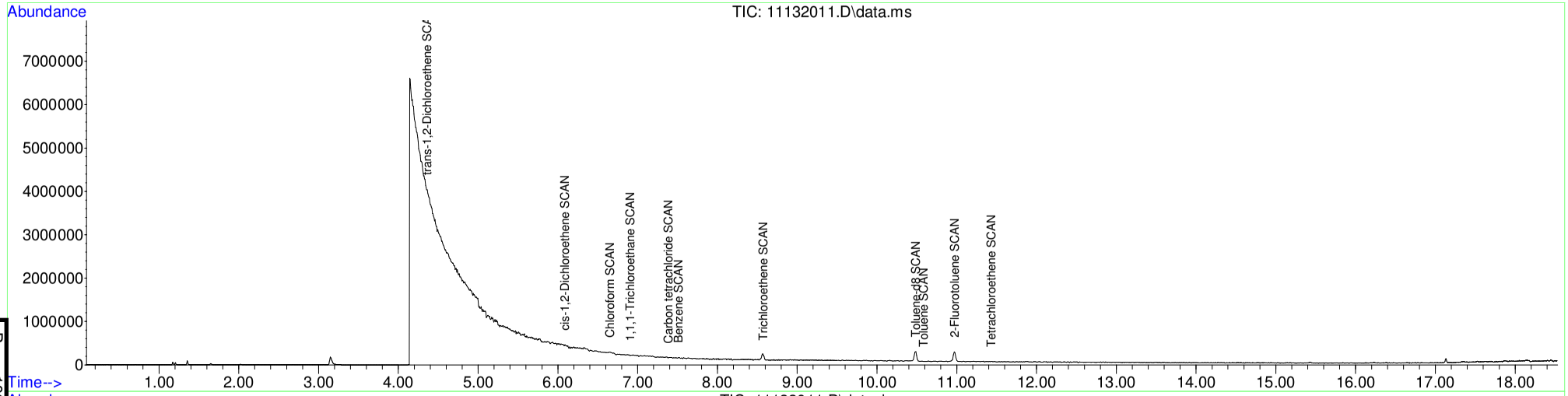
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	388178	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.477	98	324808	4274.35	ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 85.49%#				
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.089	61	1328	85.67	ug/L		77
3] trans-1,2-Dichloroethene	4.362	61	1385	77.34	ug/L		80
4] 1,1-Dichloroethane	5.079	63	912	40.91	ug/L	#	33
5] cis-1,2-Dichloroethene	6.081	61	24142	1025.92	ug/L		99
6] Chloroform	6.651	83	27256	1131.62	ug/L		99
7] 1,1,1-Trichloroethane	6.907	97	791	30.24	ug/L		99
9] Benzene	7.503	78	5401	81.89	ug/L		39
11] Trichloroethene	8.564	130	94937	4780.85	ug/L	RPT	93
13] Toluene	10.582	91	4409	45.51	ug/L		99
15] Tetrachloroethene	11.432	166	4923	175.59	ug/L		97
19] m&p-Xylene	13.162	91	2309	25.05	ug/L		94
25) 2-Fluorotoluene SCAN	10.969	109	191928	5072.07	ug/L		98
27) trans-1,2-Dichloroethe...	4.361	61	559	56.21	ug/L		92
29) cis-1,2-Dichloroethene...	6.086	61	14857	1204.93	ug/L	#	63
30) Chloroform SCAN	6.650	83	16017	1197.64	ug/L		96
31) 1,1,1-Trichloroethane ...	6.906	97	419	34.38	ug/L	#	18
32) Carbon tetrachloride SCAN	7.380	117	289	22.73	ug/L	#	15
33) Benzene SCAN	7.514	78	8985	267.76	ug/L		94
35) Trichloroethene SCAN	8.573	130	45090	4889.67	ug/L		83
36) Toluene-d8 SCAN	10.486	98	171193	4626.02	ug/L		93
37) Toluene SCAN	10.580	91	2623	55.35	ug/L		94
39) Tetrachloroethene SCAN	11.430	166	2362	207.45	ug/L	#	63

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132011.D
Acq On : 13 Nov 2020 14:42
InstName : AG5975C
Operator : TD
Sample : 2011015-05RE1
Misc : 10X DL (180-20)
ALS Vial : 11 Sample Multiplier: 10

Quant Time: Nov 16 08:53:48 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



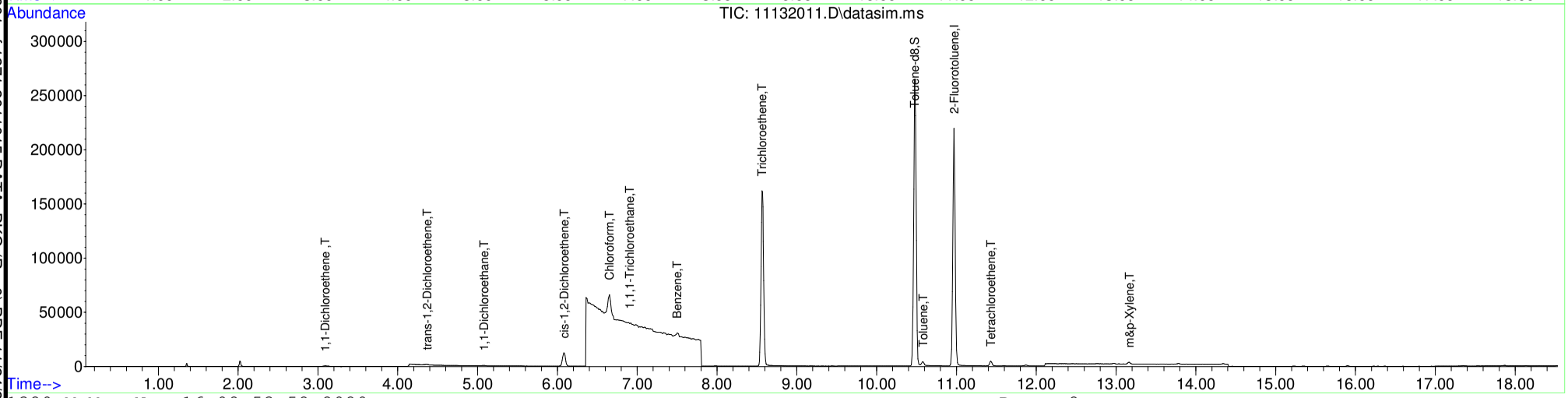
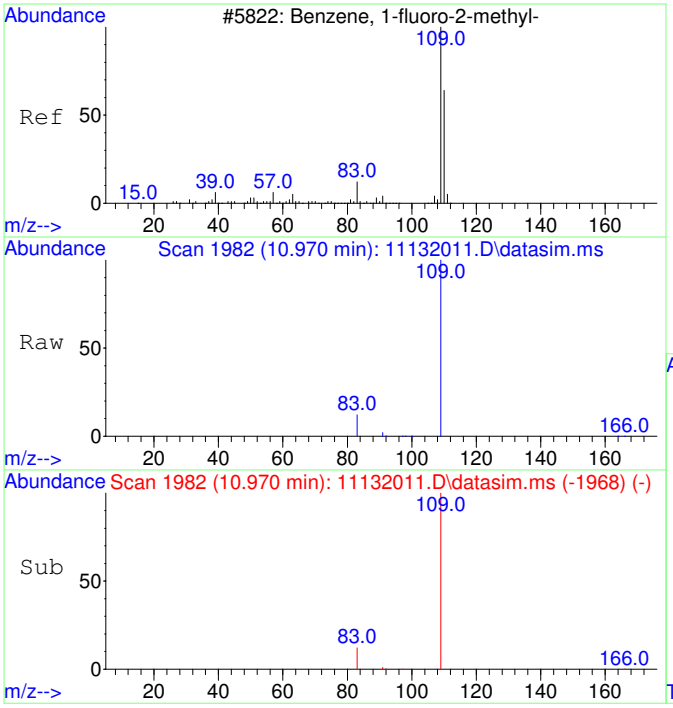


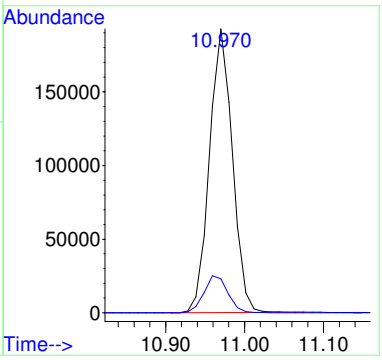
Table of Contents

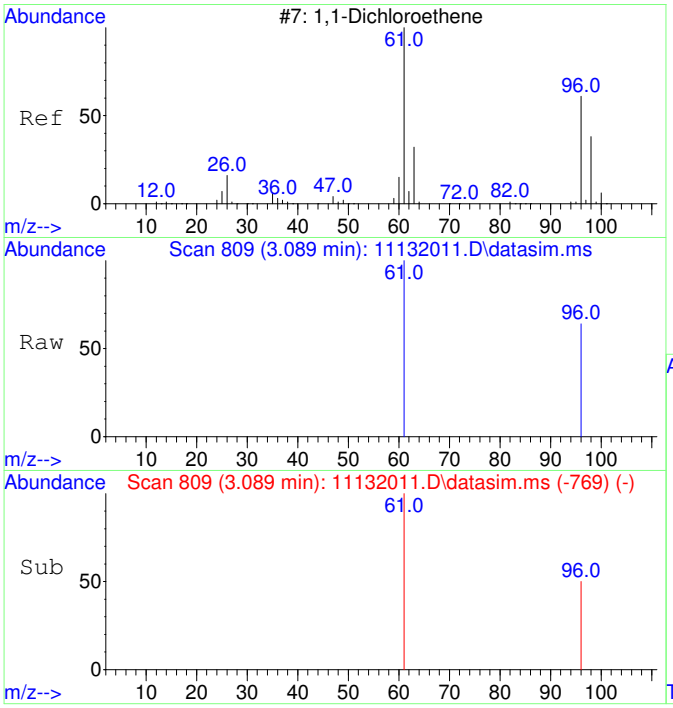


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion:109 Resp: 388178

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	42.3

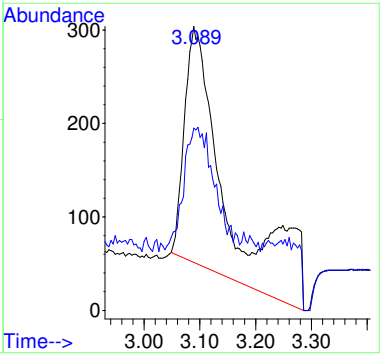


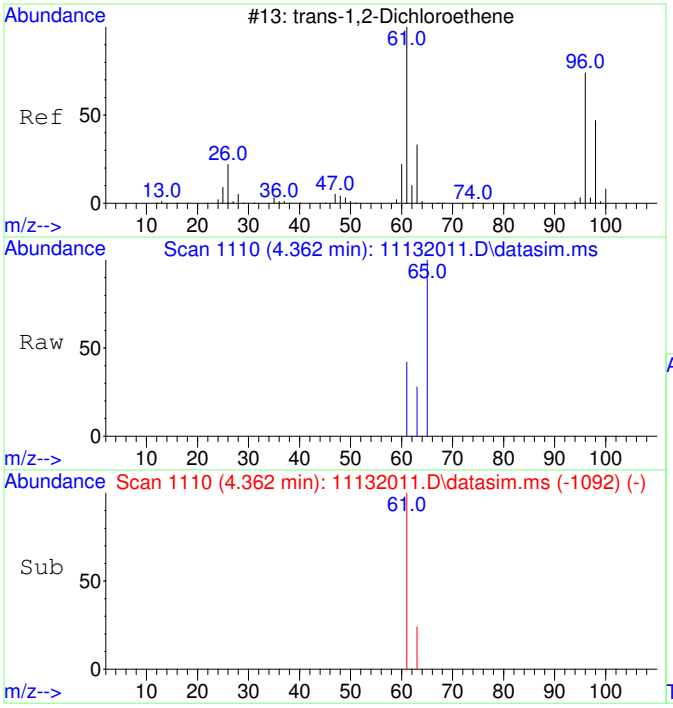


#2
1,1-Dichloroethene
Concen: 85.67 ug/L
RT: 3.089 min Scan# 809
Delta R.T. -0.000 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 61 Resp: 1328

Ion	Ratio	Lower	Upper
61	100		
96	48.6	37.2	97.2

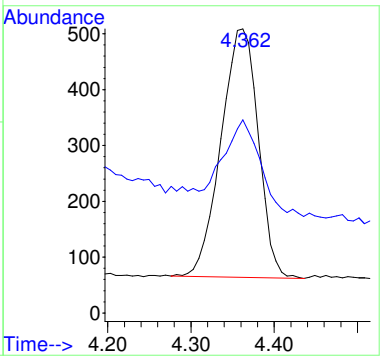


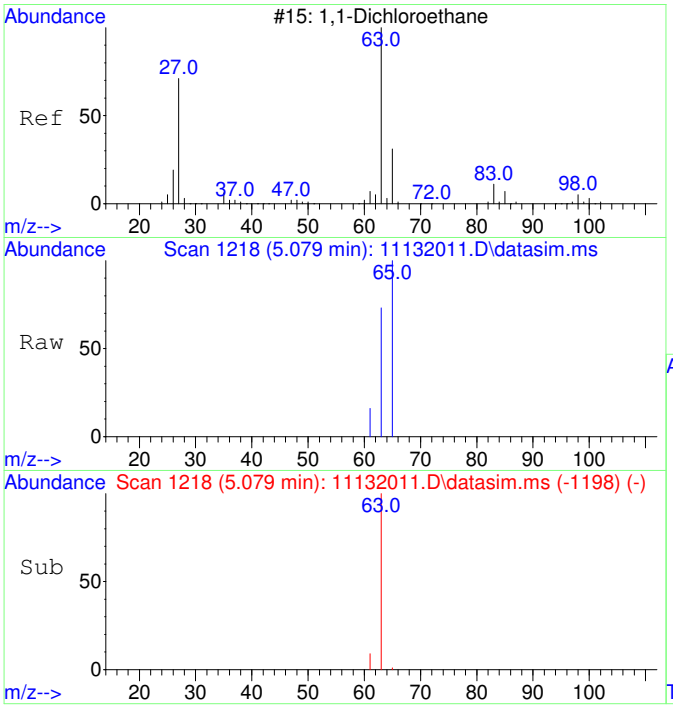


#3
trans-1,2-Dichloroethene
Concen: 77.34 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. -0.033 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 61 Resp: 1385

Ion	Ratio	Lower	Upper
61	100		
63	43.5	2.4	62.4

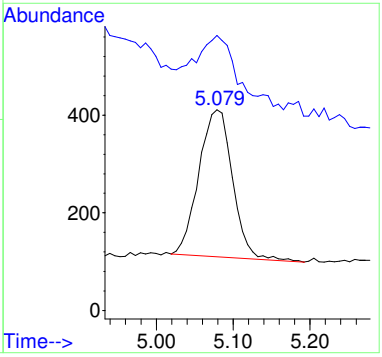


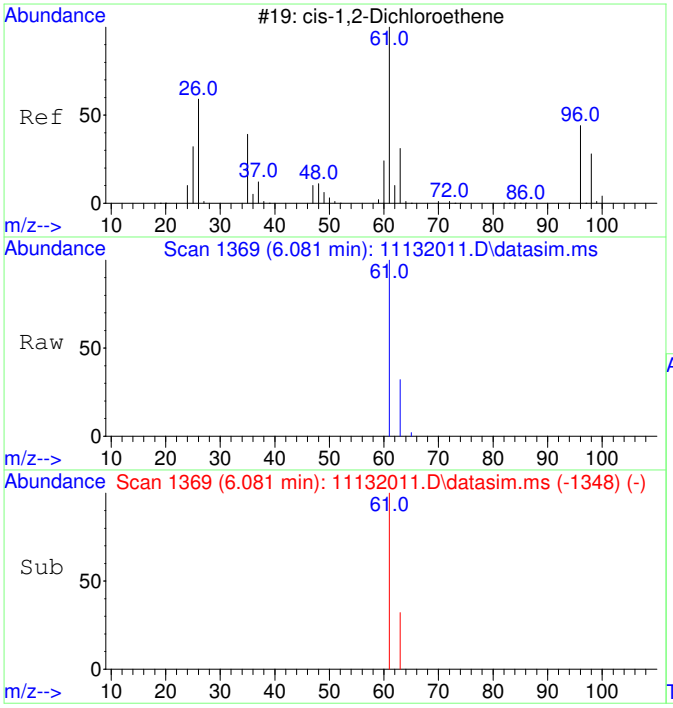


#4
1,1-Dichloroethane
Concen: 40.91 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 63 Resp: 912

Ion	Ratio	Lower	Upper
63	100		
65	69.0	1.8	61.8#

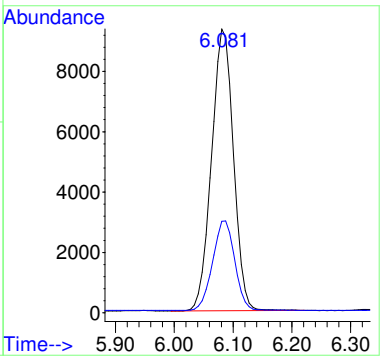


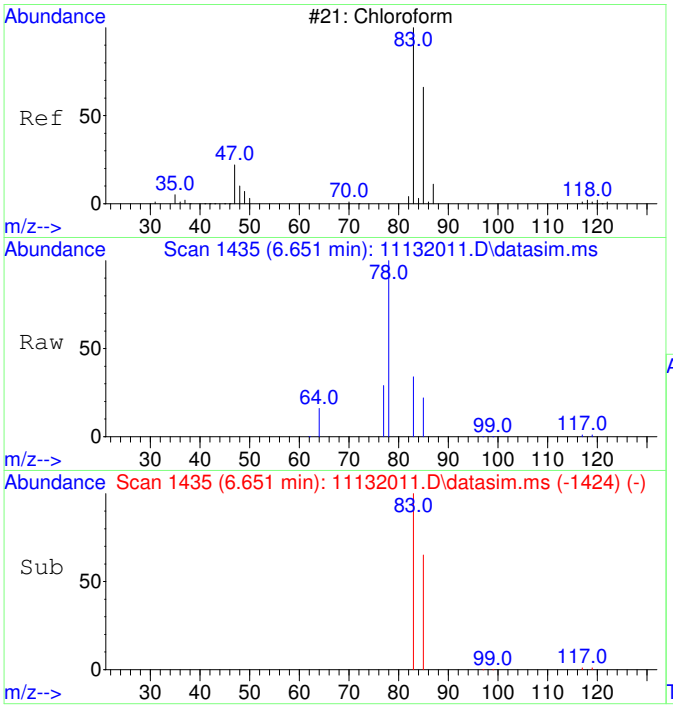


#5
cis-1,2-Dichloroethene
Concen: 1025.92 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 61 Resp: 24142

Ion	Ratio	Lower	Upper
61	100		
63	31.8	2.5	62.5

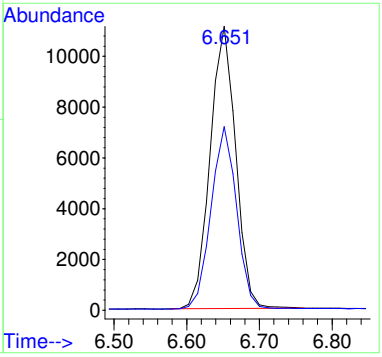


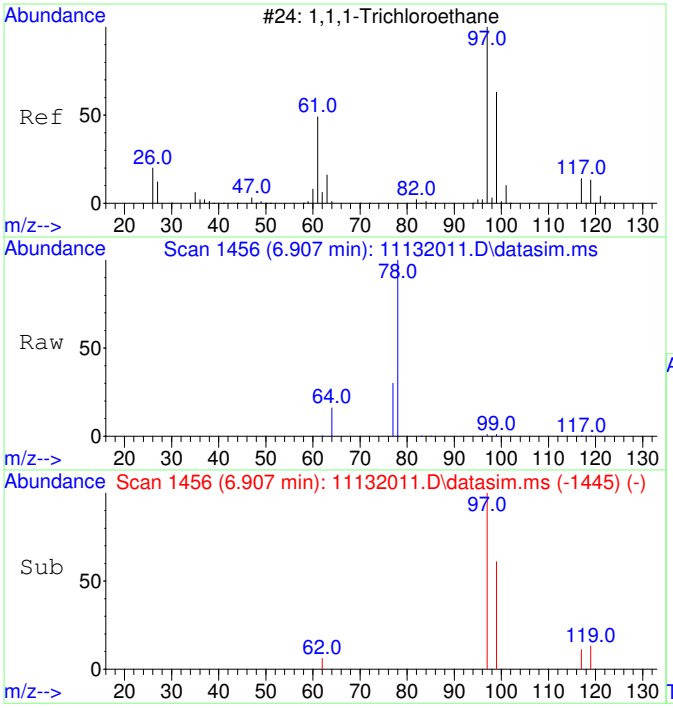


#6
Chloroform
Concen: 1131.62 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 83 Resp: 27256

Ion	Ratio	Lower	Upper
83	100		
85	64.1	35.1	95.1

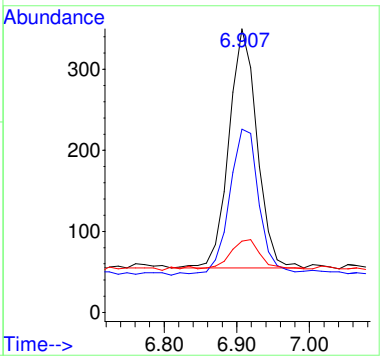


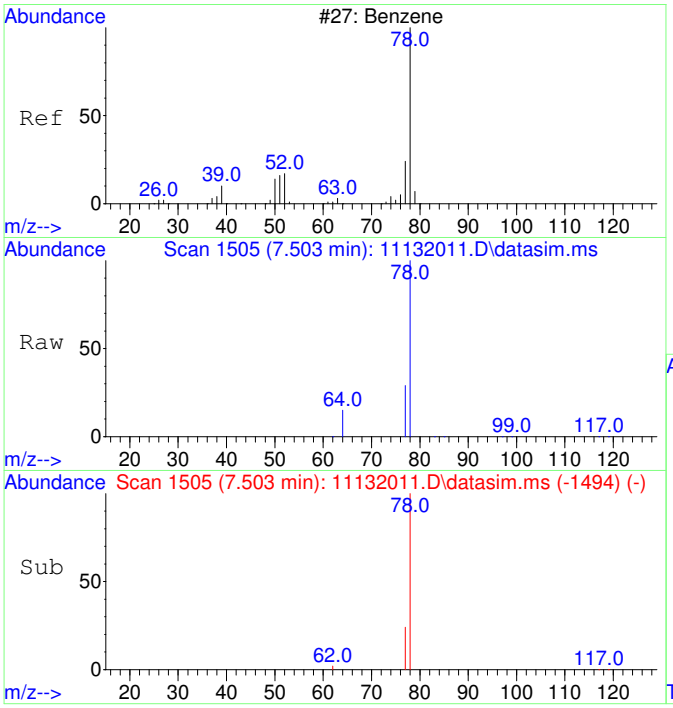


#7
1,1,1-Trichloroethane
Concen: 30.24 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 97 Resp: 791

Ion	Ratio	Lower	Upper
97	100		
99	65.0	34.6	94.6
117	12.5	0.0	43.2

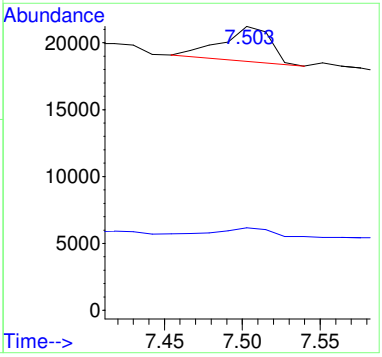


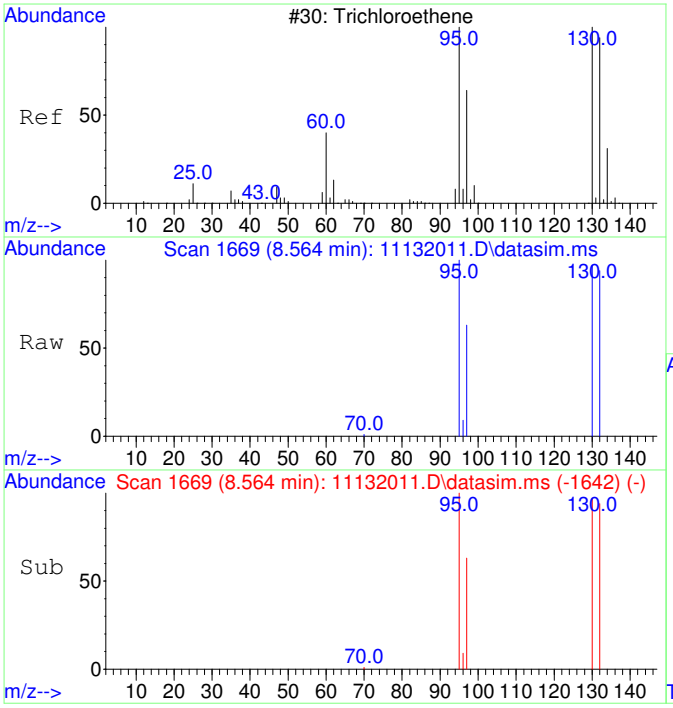


#9
Benzene
Concen: 81.89 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 78 Resp: 5401

Ion	Ratio	Lower	Upper
78	100		
77	53.0	0.0	53.2

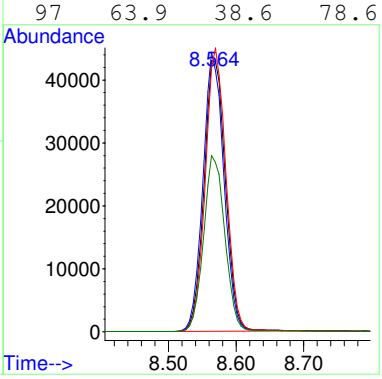


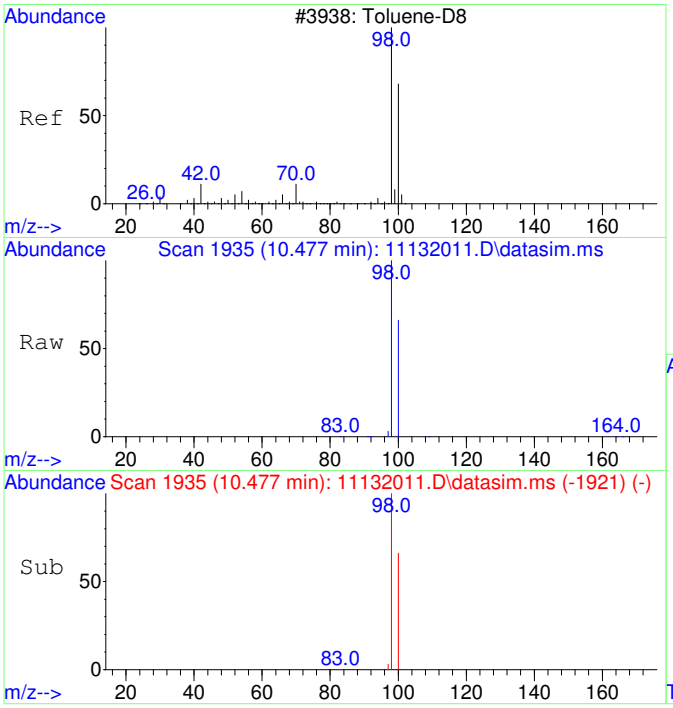


#11
Trichloroethene
Concen: 4780.85 ug/L
RT: 8.564 min Scan# 1669
Delta R.T. -0.006 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion:130 Resp: 94937

Ion	Ratio	Lower	Upper
130	100		
95	99.8	60.7	120.7
132	100.5	76.0	116.0
97	63.9	38.6	78.6

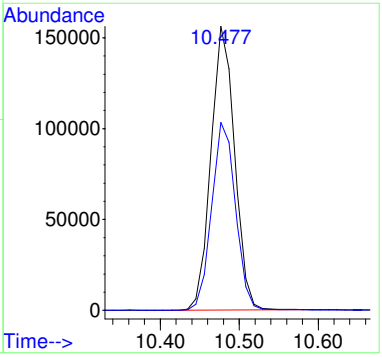


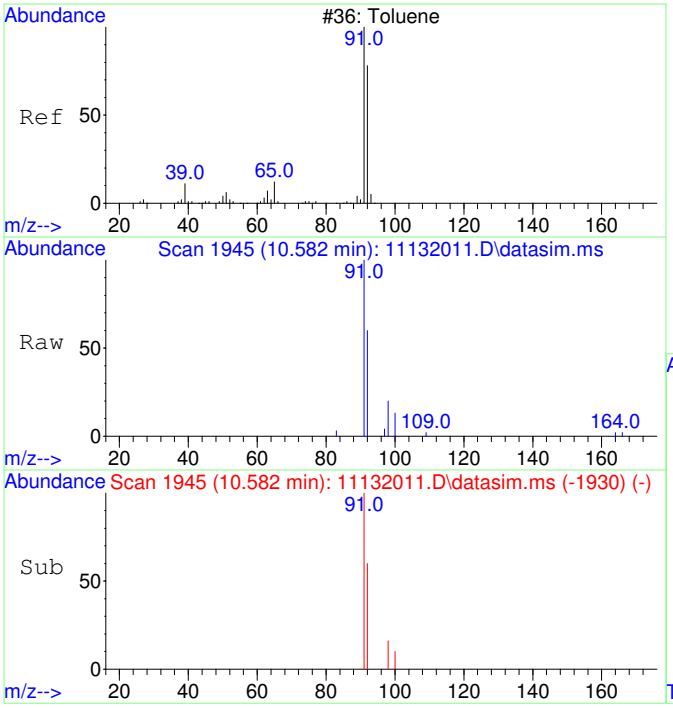


#12
Toluene-d8
Concen: 4274.35 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 98 Resp: 324808

Ion	Ratio	Lower	Upper
98	100		
100	66.4	37.1	97.1

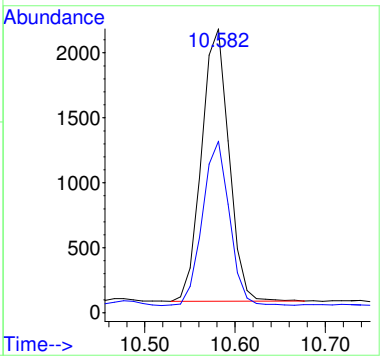


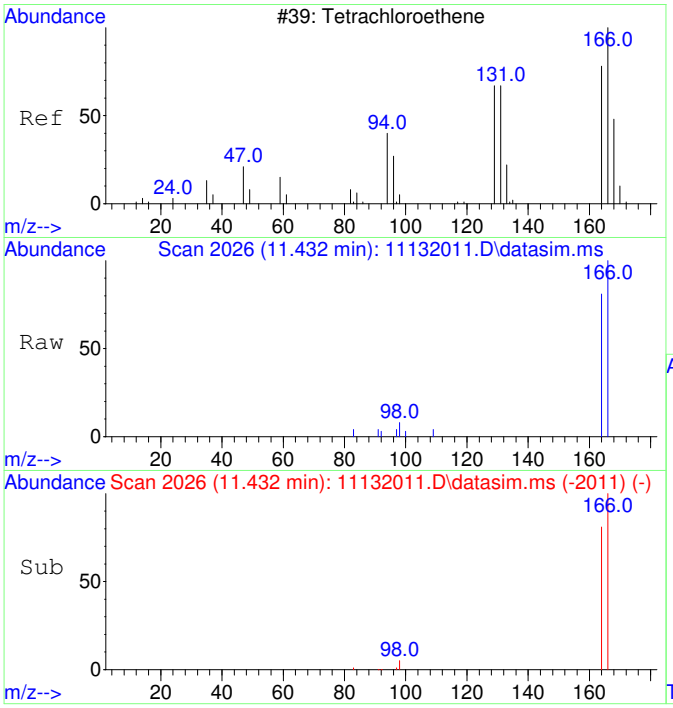


#13
Toluene
Concen: 45.51 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 91 Resp: 4409

Ion	Ratio	Lower	Upper
91	100		
92	59.4	29.9	89.9

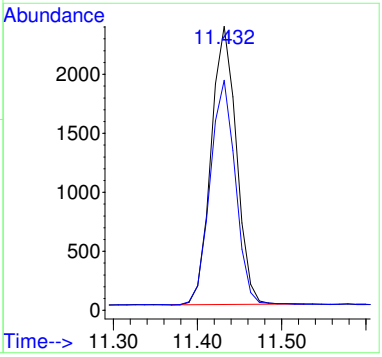


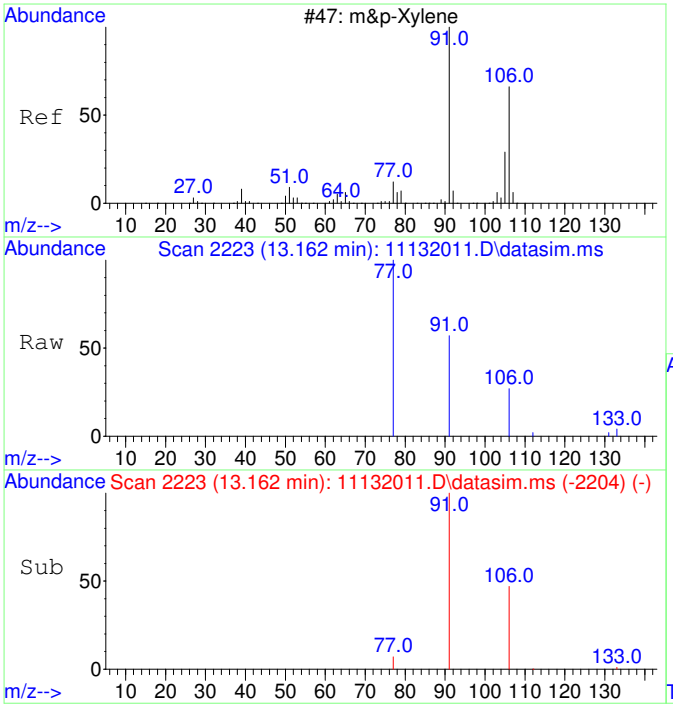


#15
Tetrachloroethene
Concen: 175.59 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion:166 Resp: 4923

Ion	Ratio	Lower	Upper
166	100		
164	80.3	47.8	107.8

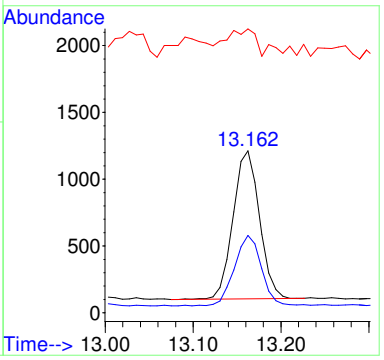


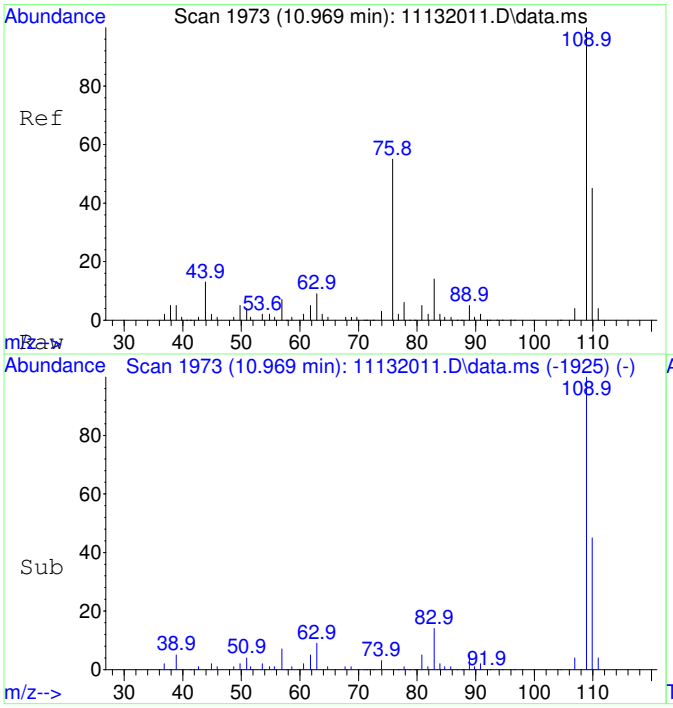


#19
m&p-Xylene
Concen: 25.05 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 91 Resp: 2309

Ion	Ratio	Lower	Upper
91	100		
106	47.8	22.2	82.2
77	14.4	0.0	42.4

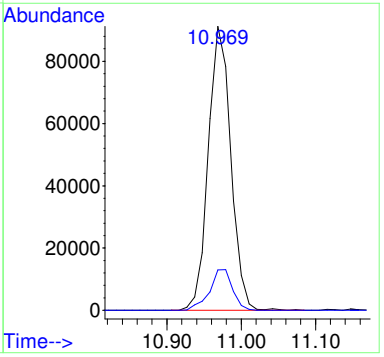


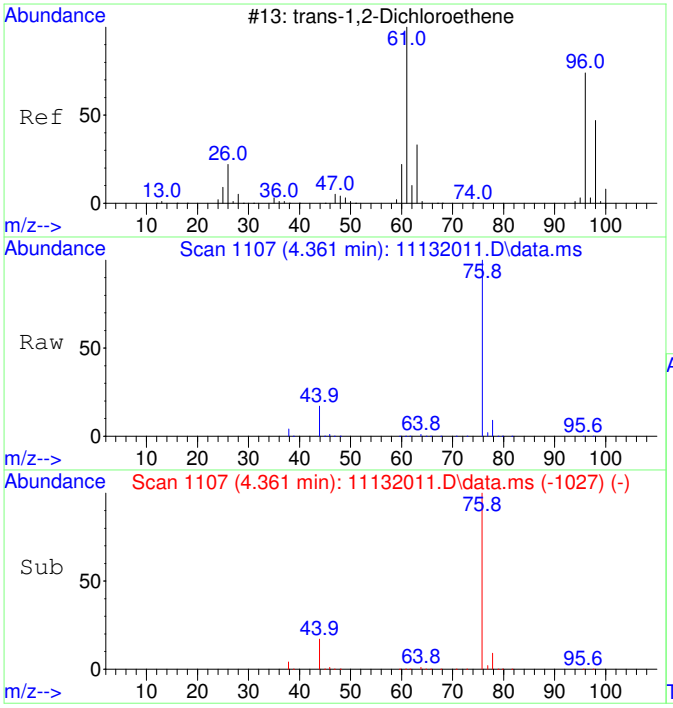


#25
2-Fluorotoluene SCAN
Concen: 5072.07 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion:109 Resp: 191928

Ion	Ratio	Lower	Upper
109	100		
83	14.7	0.0	43.8

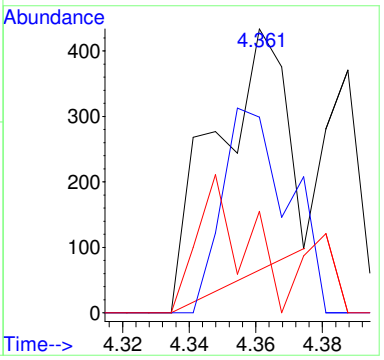


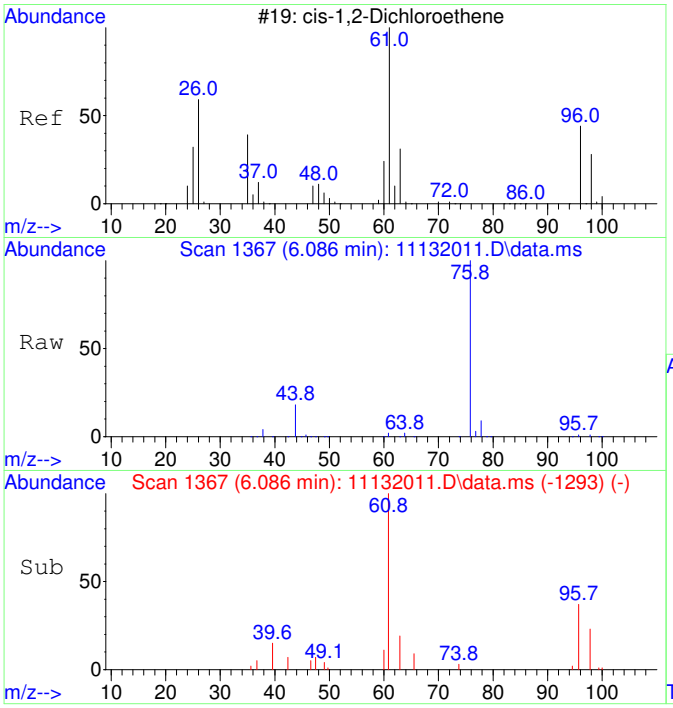


#27
trans-1,2-Dichloroethene SCAN
Concen: 56.21 ug/L
RT: 4.361 min Scan# 1107
Delta R.T. -0.040 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 61 Resp: 559

Ion	Ratio	Lower	Upper
61	100		
96	77.5	49.0	109.0
98	37.4	20.5	80.5

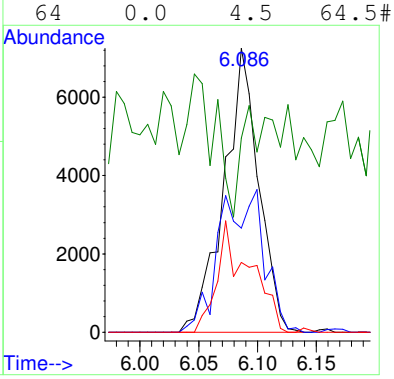


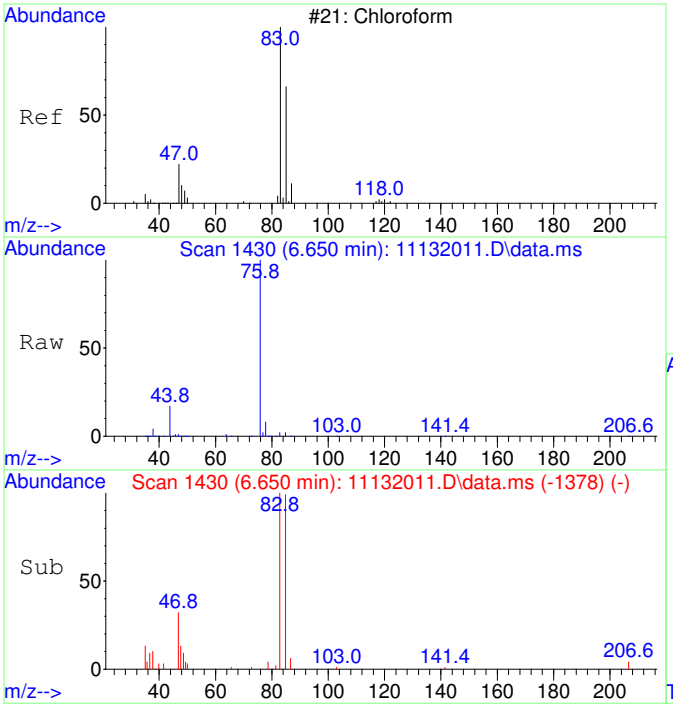


#29
cis-1,2-Dichloroethene SCAN
Concen: 1204.93 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 61 Resp: 14857

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

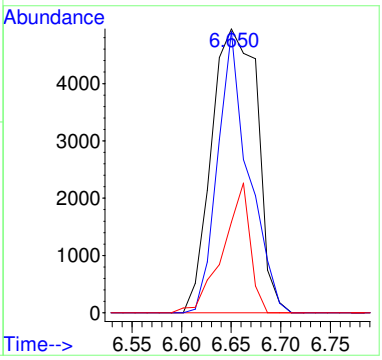


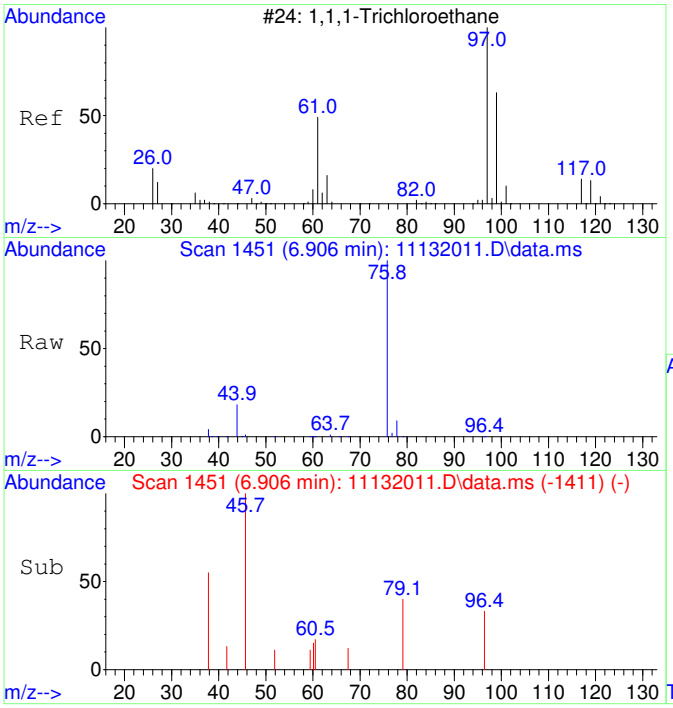


#30
Chloroform SCAN
Concen: 1197.64 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 83 Resp: 16017

Ion	Ratio	Lower	Upper
83	100		
85	66.9	34.6	94.6
47	26.9	0.0	53.4

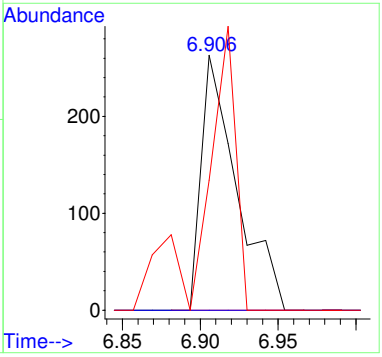


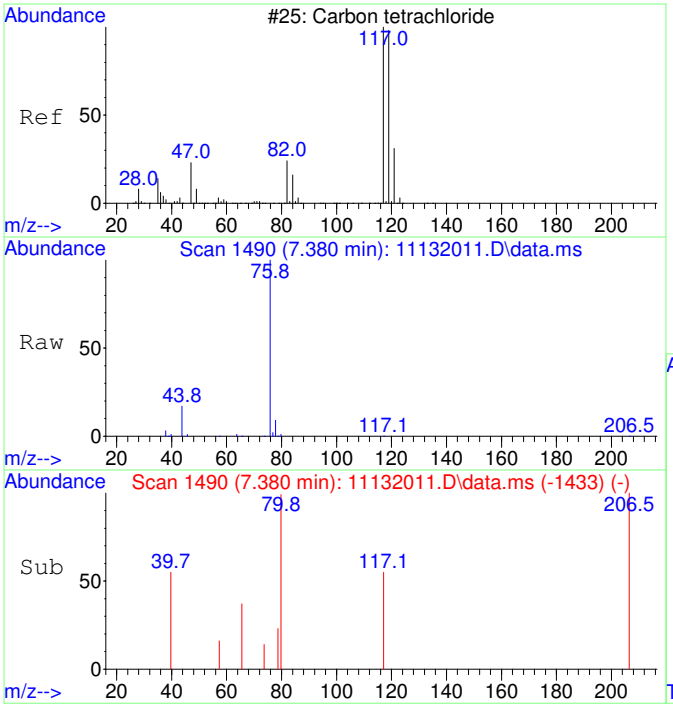


#31
1,1,1-Trichloroethane SCAN
Concen: 34.38 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 97 Resp: 419

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	97.9	18.0	78.0#

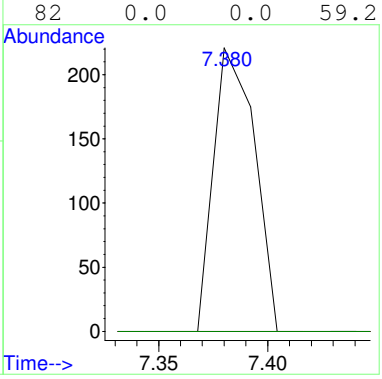


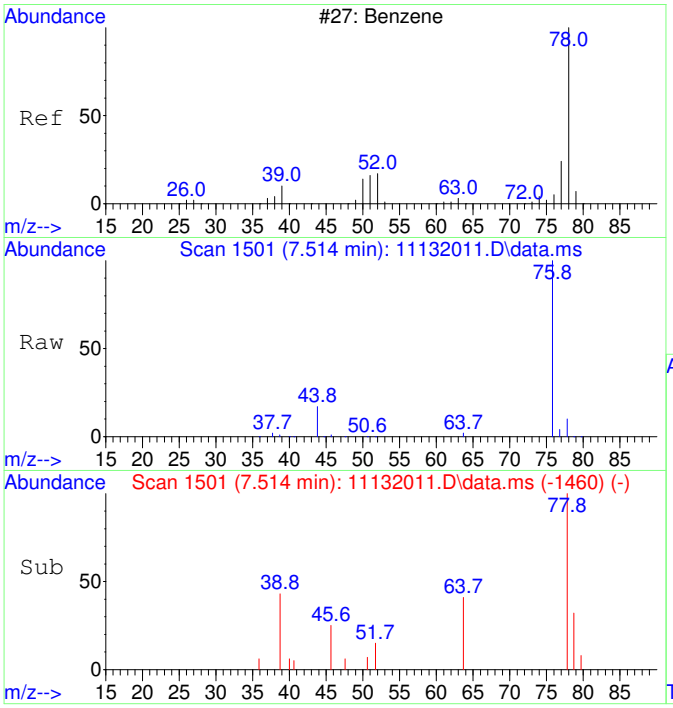


#32
Carbon tetrachloride SCAN
Concen: 22.73 ug/L
RT: 7.380 min Scan# 1490
Delta R.T. 0.195 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion:117 Resp: 289

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

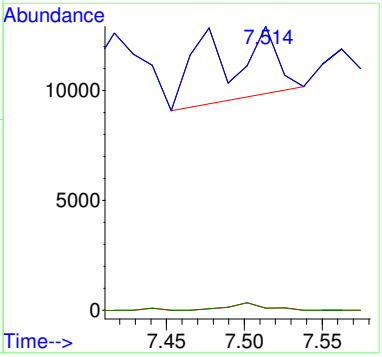


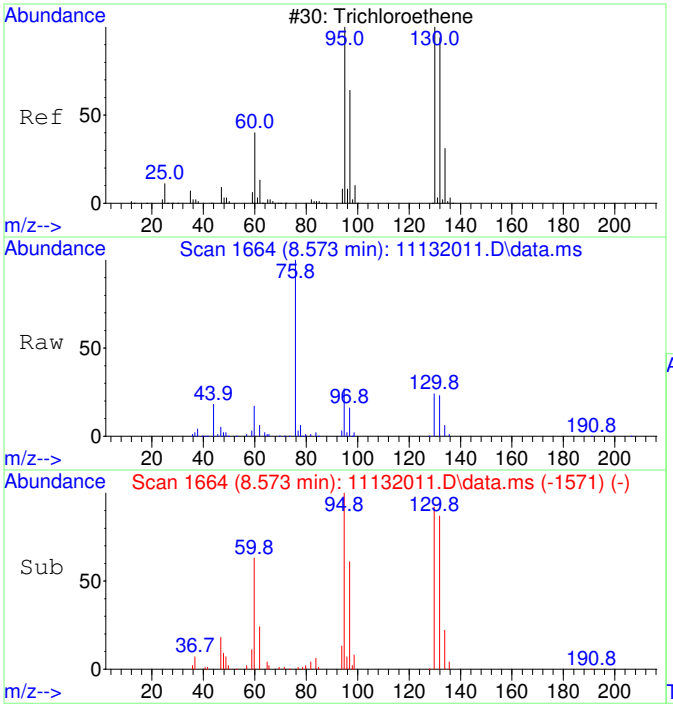


#33
Benzene SCAN
Concen: 267.76 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. -0.000 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 78 Resp: 8985

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	6.3	0.0	47.9
51	6.3	0.0	44.1

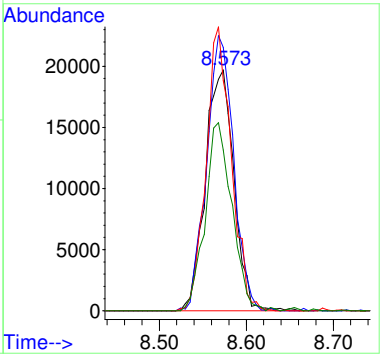


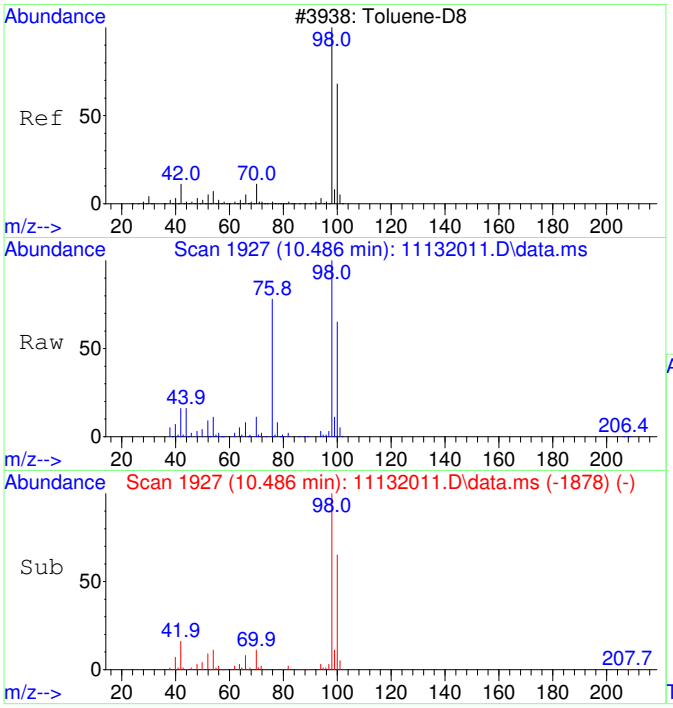


#35
Trichloroethene SCAN
Concen: 4889.67 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.005 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion:130 Resp: 45090

Ion	Ratio	Lower	Upper
130	100		
95	107.2	60.5	120.5
132	103.4	59.6	119.6
97	72.6	28.2	88.2

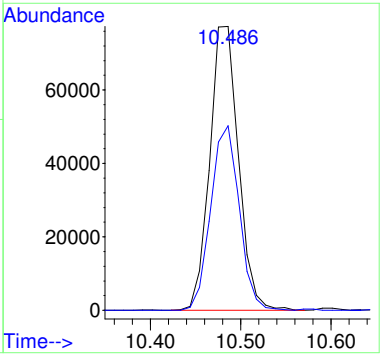


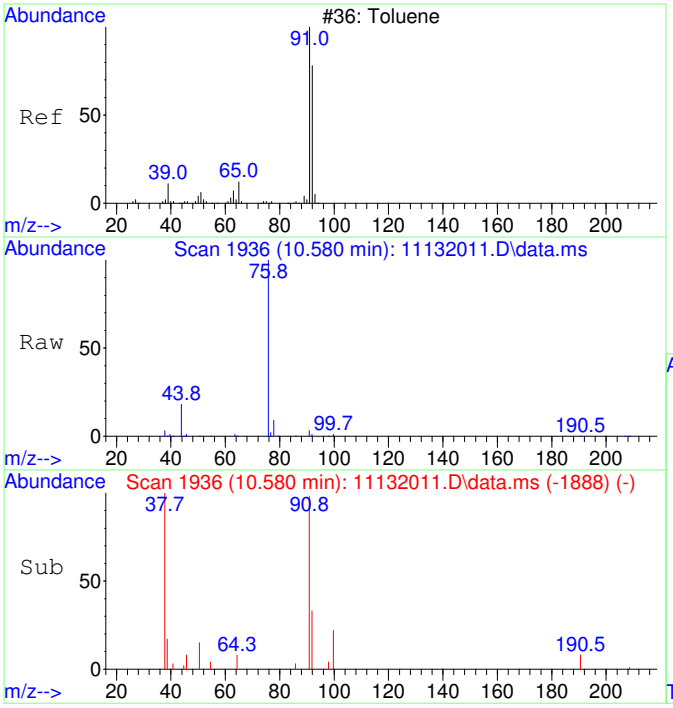


#36
Toluene-d8 SCAN
Concen: 4626.02 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 98 Resp: 171193

Ion	Ratio	Lower	Upper
98	100		
100	64.4	40.0	100.0

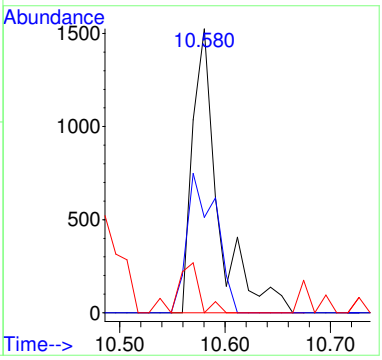


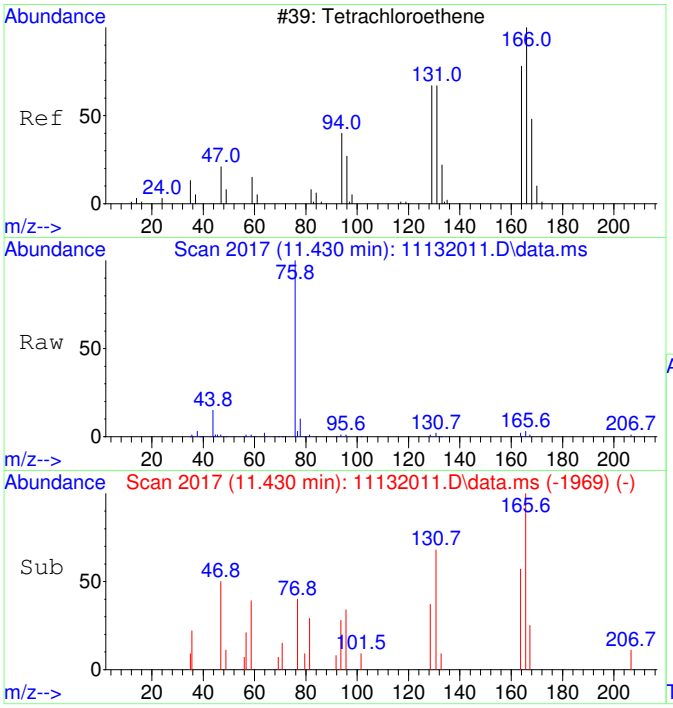


#37
Toluene SCAN
Concen: 55.35 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion: 91 Resp: 2623

Ion	Ratio	Lower	Upper
91	100		
92	54.7	28.3	88.3
65	15.0	0.0	41.0

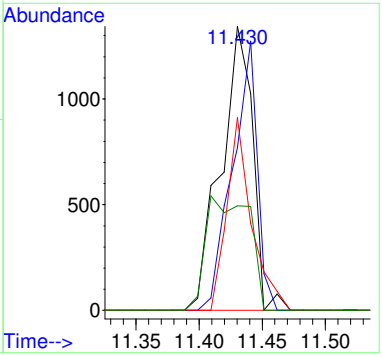




#39
Tetrachloroethene SCAN
Concen: 207.45 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11132011.D
Acq: 13 Nov 2020 14:42

Tgt Ion:166 Resp: 2362

Ion	Ratio	Lower	Upper
166	100		
164	73.8	50.9	110.9
131	52.6	38.7	98.7
129	0.0	41.8	101.8#



2011015-12RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132012.D
Acq On : 13 Nov 2020 15:06
InstName : AG5975C
Operator : TD
Sample : 2011015-12RE1
Misc : 10X DL (180-20)
ALS Vial : 12 Sample Multiplier: 10

Quant Time: Nov 16 08:53:58 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

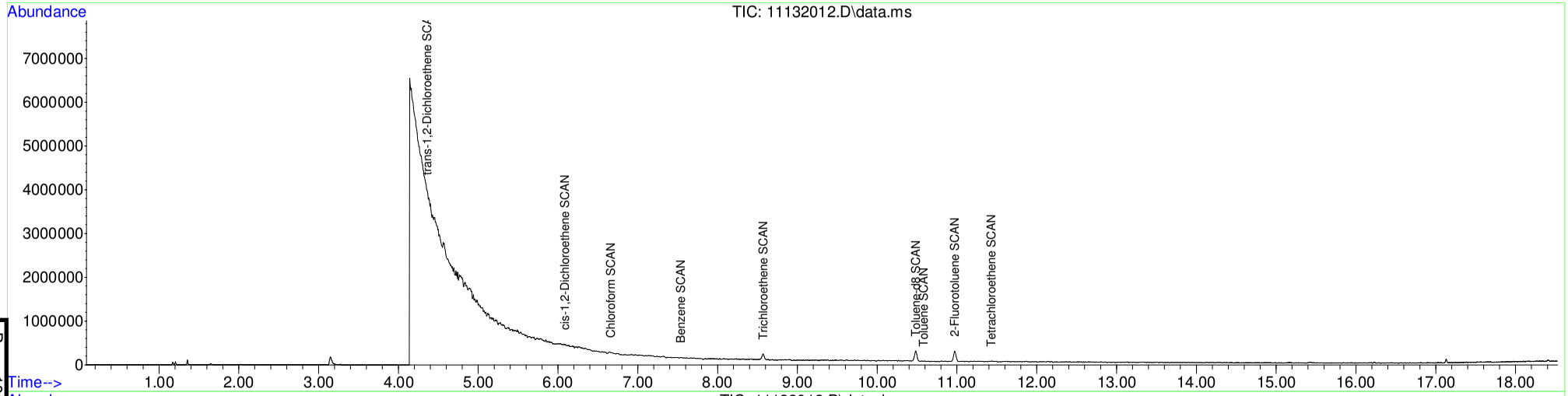
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	388688	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.477	98	333162	4378.53	ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 87.57%				
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.086	61	1349	86.91	ug/L		82
3] trans-1,2-Dichloroethene	4.349	61	1242	69.26	ug/L		60
4] 1,1-Dichloroethane	5.072	63	843	37.76	ug/L	#	24
5] cis-1,2-Dichloroethene	6.081	61	21101	895.52	ug/L		98
6] Chloroform	6.652	83	31264	1296.32	ug/L		100
7] 1,1,1-Trichloroethane	6.907	97	707	26.99	ug/L		99
9] Benzene	7.491	78	4011	60.74	ug/L	#	1
11] Trichloroethene	8.569	130	84660	4257.73	ug/L	RPT	93
13] Toluene	10.582	91	4454	45.91	ug/L		98
15] Tetrachloroethene	11.432	166	4736	168.70	ug/L		100
19] m&p-Xylene	13.162	91	3278	35.52	ug/L		92
25) 2-Fluorotoluene SCAN	10.969	109	196828	5194.73	ug/L		99
27) trans-1,2-Dichloroethe...	4.355	61	567	56.94	ug/L	#	39
29) cis-1,2-Dichloroethene...	6.080	61	13245	1072.78	ug/L		82
30) Chloroform SCAN	6.662	83	16986	1268.42	ug/L	#	81
33) Benzene SCAN	7.538	78	6381	189.91	ug/L	#	91
35) Trichloroethene SCAN	8.574	130	41133	4454.71	ug/L		87
36) Toluene-d8 SCAN	10.486	98	168106	4536.64	ug/L		97
37) Toluene SCAN	10.580	91	3097	65.26	ug/L	#	74
39) Tetrachloroethene SCAN	11.431	166	2935	257.44	ug/L	#	31

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132012.D
Acq On : 13 Nov 2020 15:06
InstName : AG5975C
Operator : TD
Sample : 2011015-12RE1
Misc : 10X DL (180-20)
ALS Vial : 12 Sample Multiplier: 10

Quant Time: Nov 16 08:53:58 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



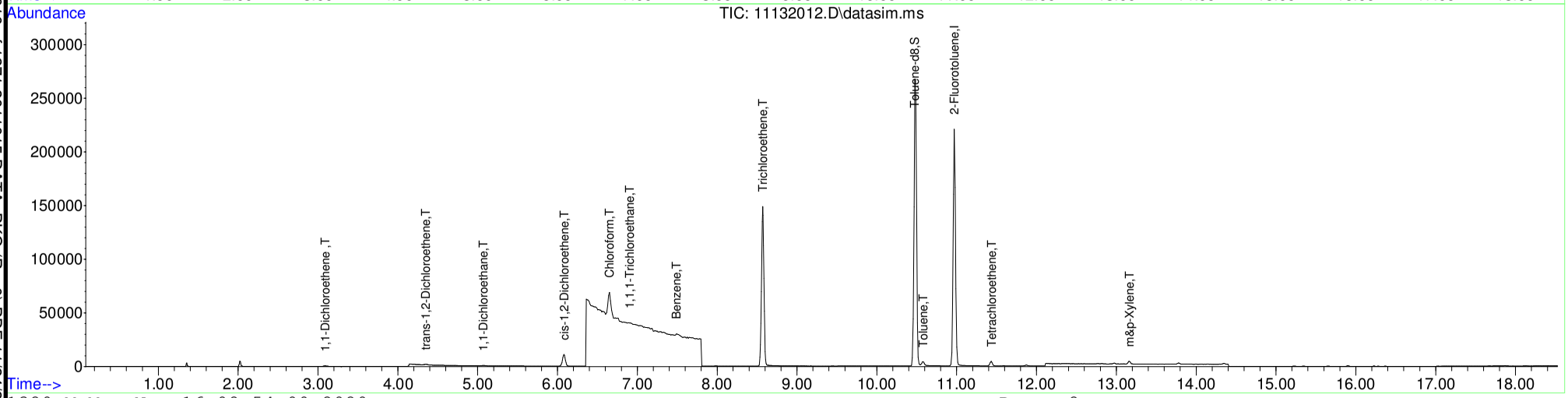
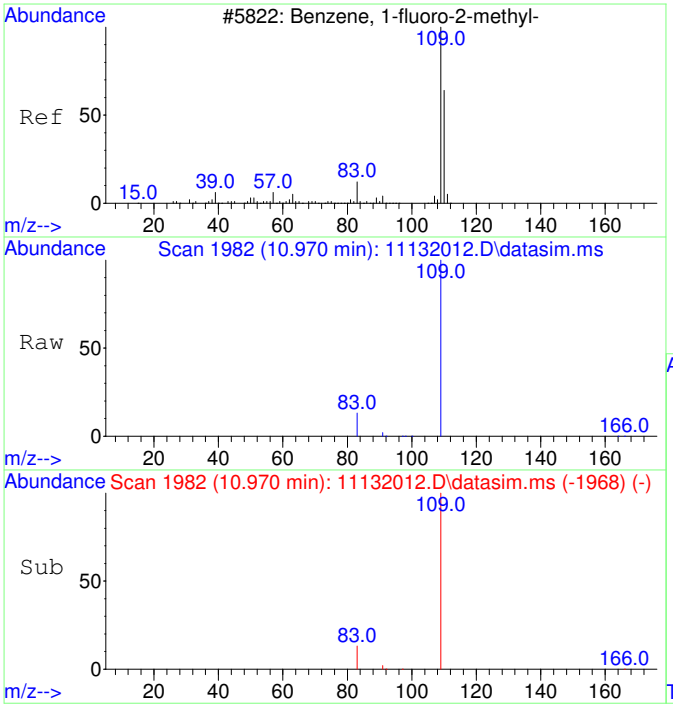


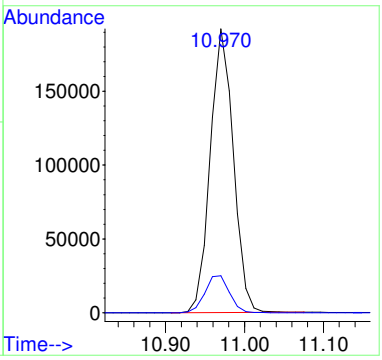
Table of Contents

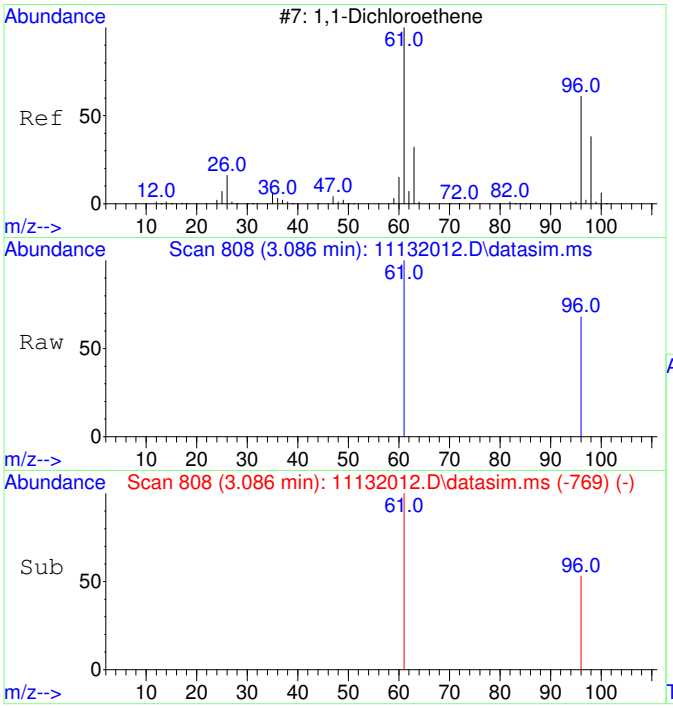


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion:109 Resp: 388688

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

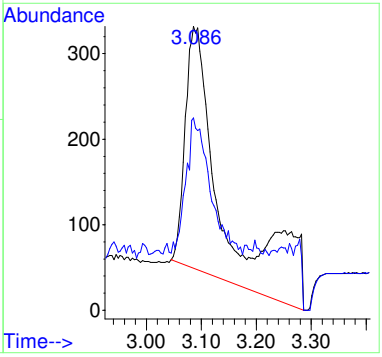


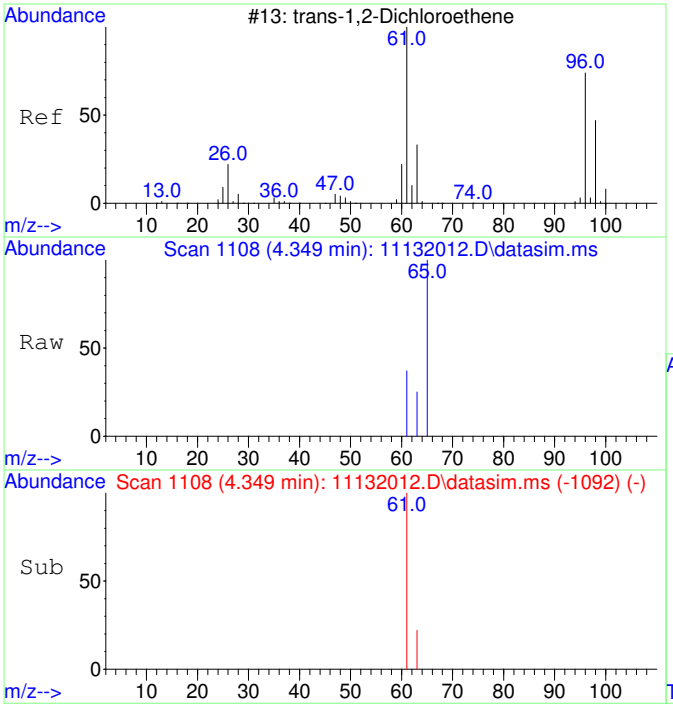


#2
1,1-Dichloroethene
Concen: 86.91 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.004 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 61 Resp: 1349

Ion	Ratio	Lower	Upper
61	100		
96	53.2	37.2	97.2

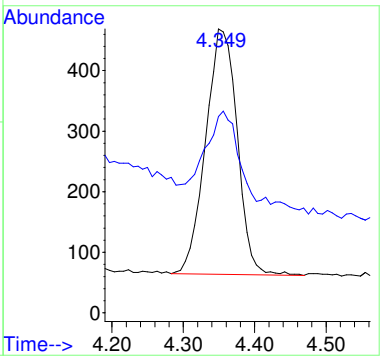


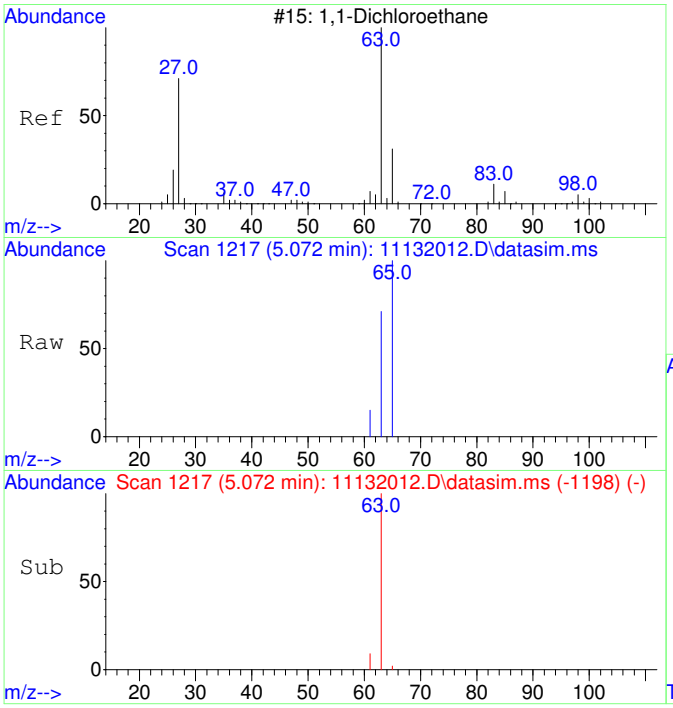


#3
trans-1,2-Dichloroethene
Concen: 69.26 ug/L
RT: 4.349 min Scan# 1108
Delta R.T. -0.046 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 61 Resp: 1242

Ion	Ratio	Lower	Upper
61	100		
63	54.6	2.4	62.4

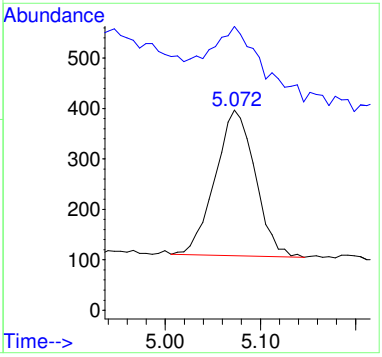


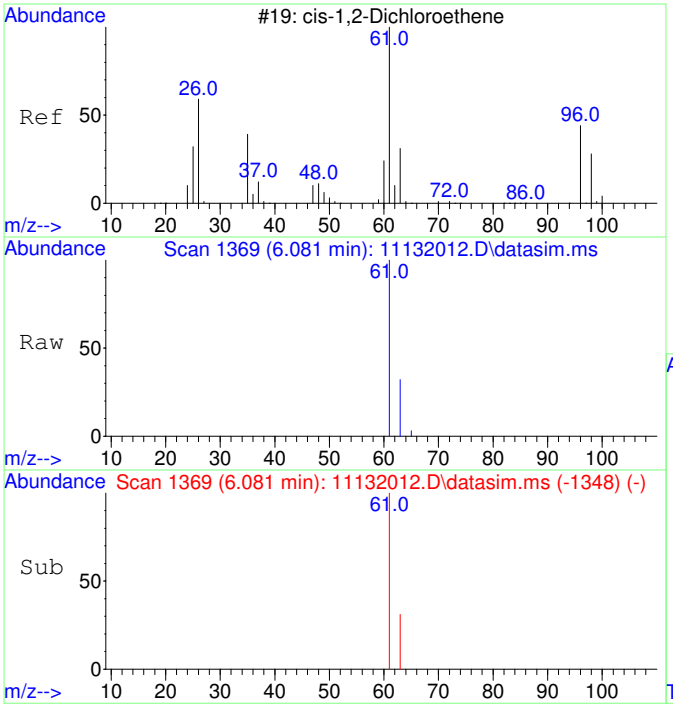


#4
1,1-Dichloroethane
Concen: 37.76 ug/L
RT: 5.072 min Scan# 1217
Delta R.T. -0.027 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 63 Resp: 843

Ion	Ratio	Lower	Upper
63	100		
65	73.9	1.8	61.8#

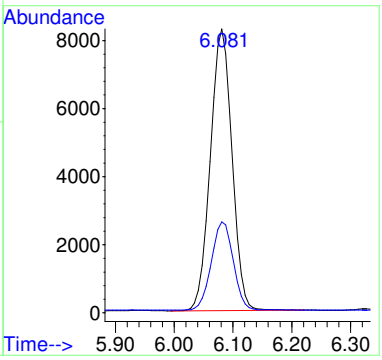


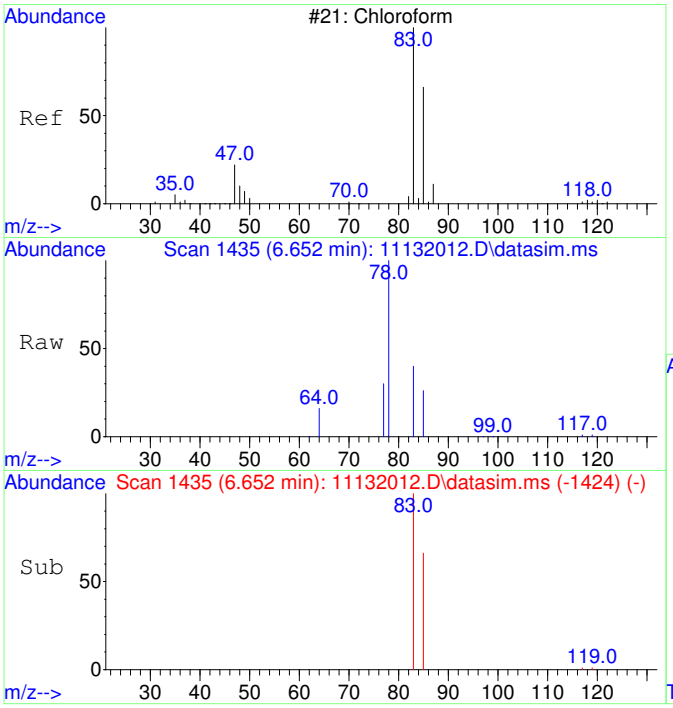


#5
cis-1,2-Dichloroethene
Concen: 895.52 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 61 Resp: 21101

Ion	Ratio	Lower	Upper
61	100		
63	31.4	2.5	62.5

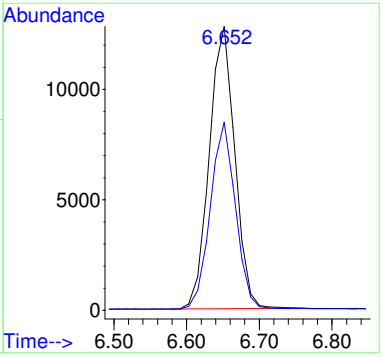


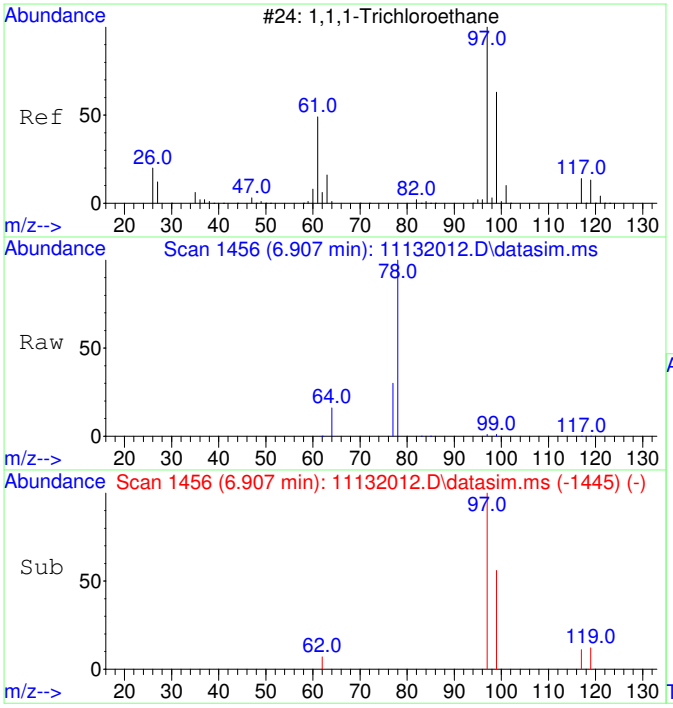


#6
Chloroform
Concen: 1296.32 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 83 Resp: 31264

Ion	Ratio	Lower	Upper
83	100		
85	64.8	35.1	95.1

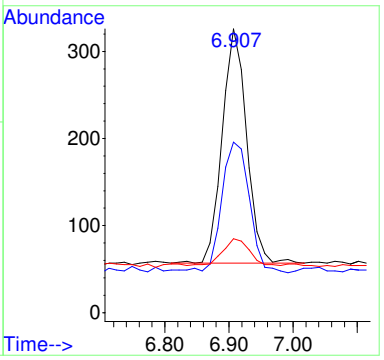


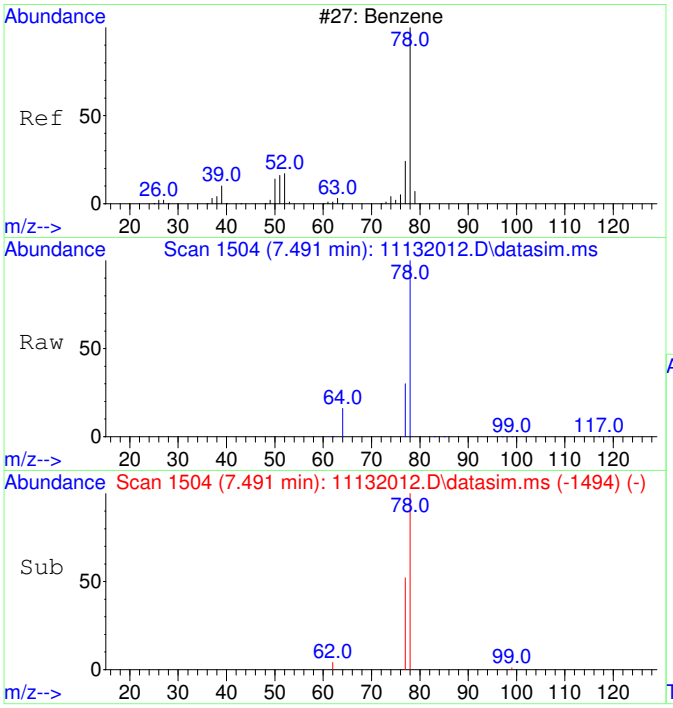


#7
1,1,1-Trichloroethane
Concen: 26.99 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 97 Resp: 707

Ion	Ratio	Lower	Upper
97	100		
99	63.6	34.6	94.6
117	12.4	0.0	43.2

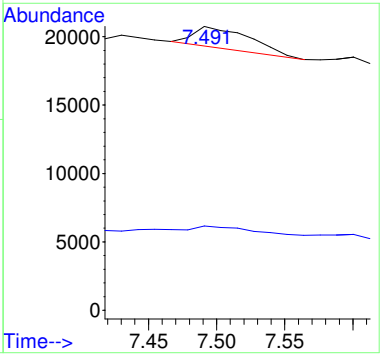


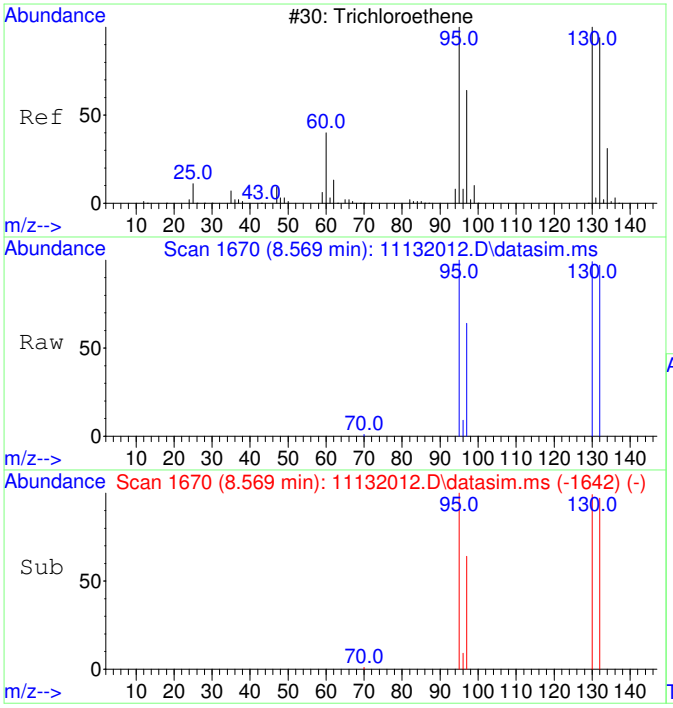


#9
Benzene
Concen: 60.74 ug/L
RT: 7.491 min Scan# 1504
Delta R.T. -0.024 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 78 Resp: 4011

Ion	Ratio	Lower	Upper
78	100		
77	82.0	0.0	53.2#

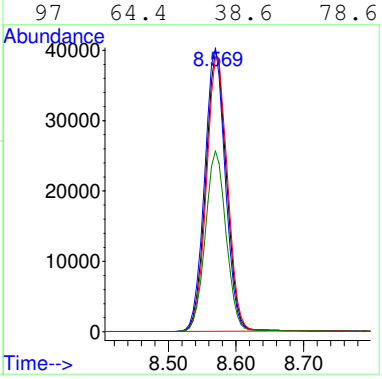


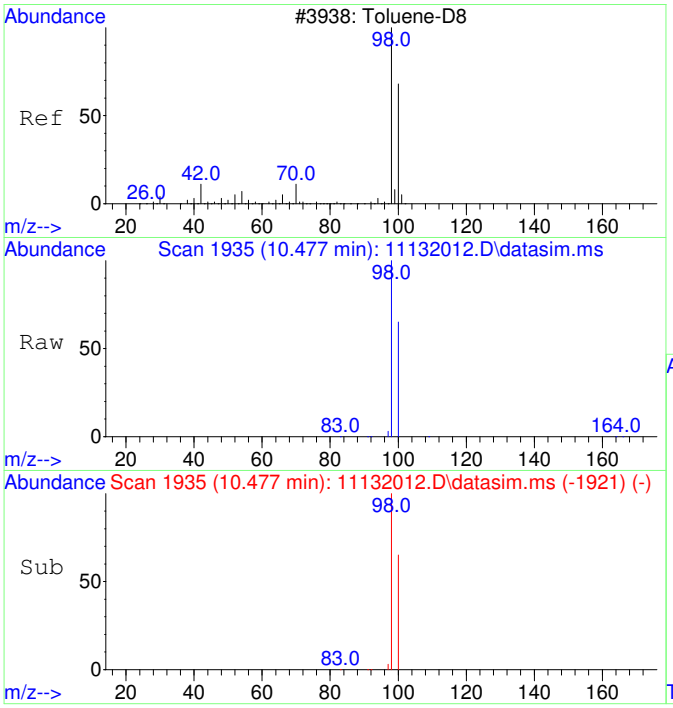


#11
Trichloroethene
Concen: 4257.73 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion:130 Resp: 84660

Ion	Ratio	Lower	Upper
130	100		
95	100.6	60.7	120.7
132	99.3	76.0	116.0
97	64.4	38.6	78.6

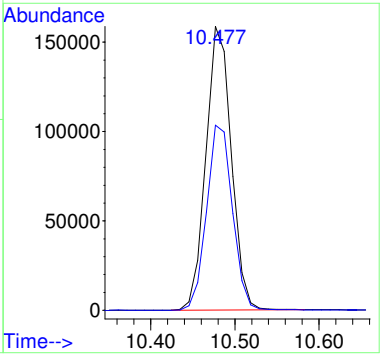


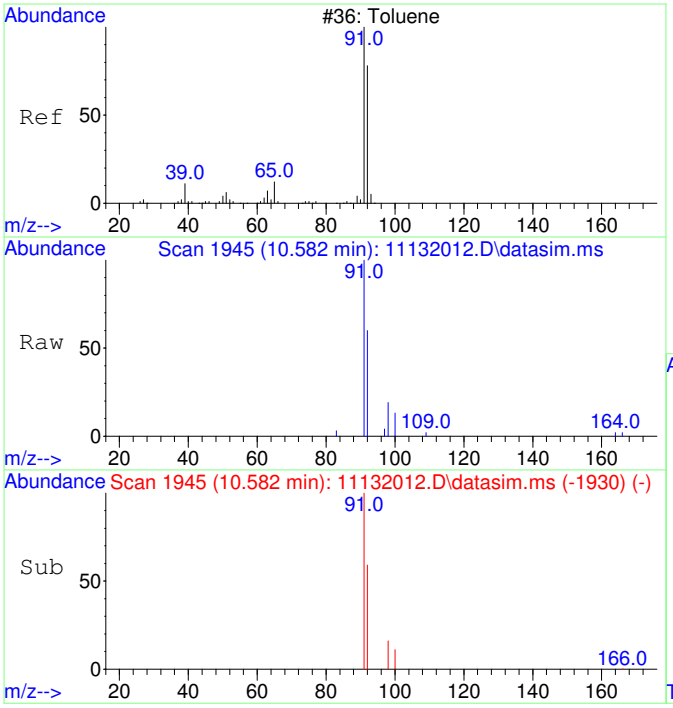


#12
Toluene-d8
Concen: 4378.53 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 98 Resp: 333162

Ion	Ratio	Lower	Upper
98	100		
100	66.3	37.1	97.1

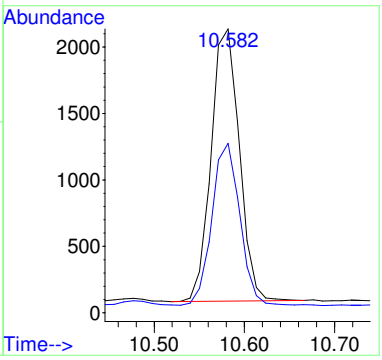


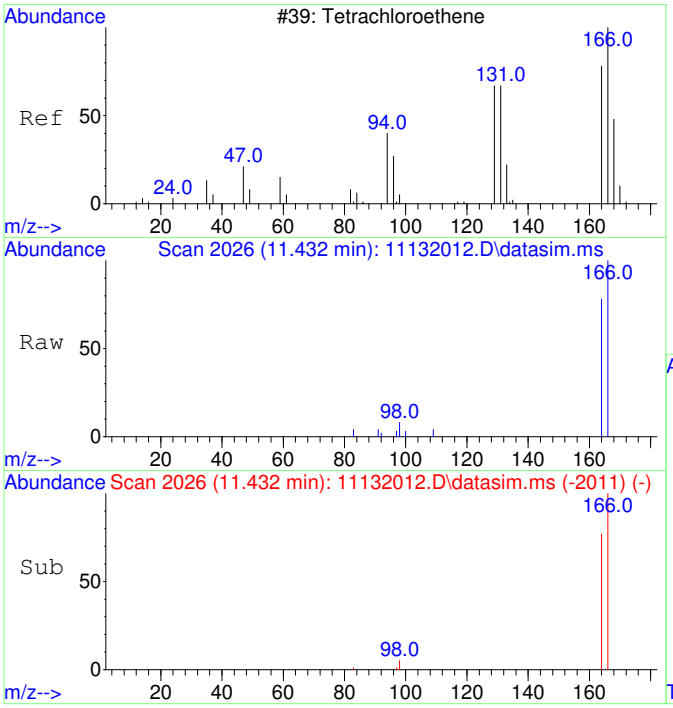


#13
Toluene
Concen: 45.91 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 91 Resp: 4454

Ion	Ratio	Lower	Upper
91	100		
92	58.5	29.9	89.9

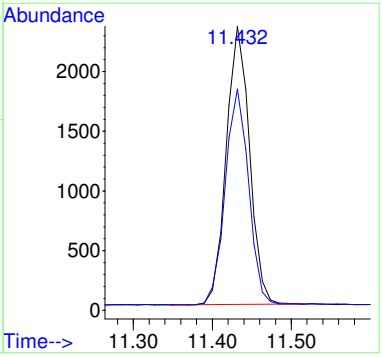


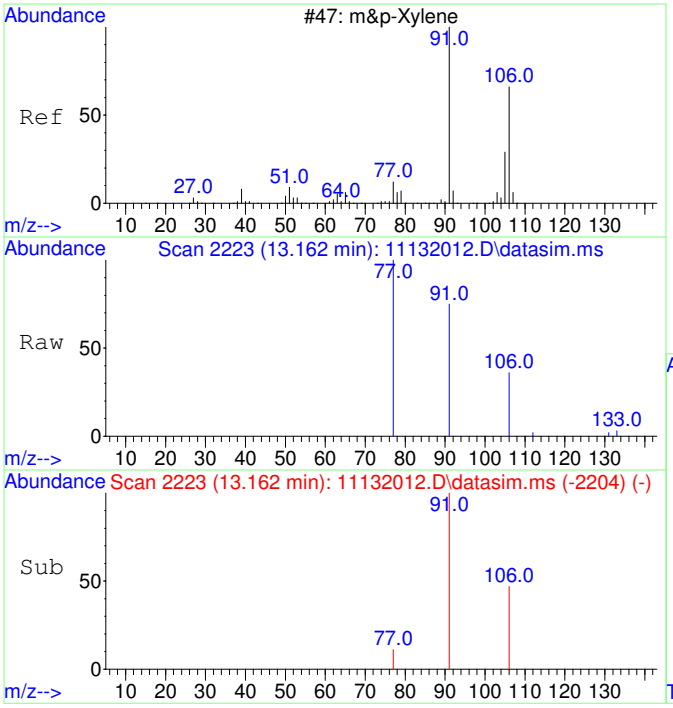


#15
Tetrachloroethene
Concen: 168.70 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion:166 Resp: 4736

Ion	Ratio	Lower	Upper
166	100		
164	77.9	47.8	107.8

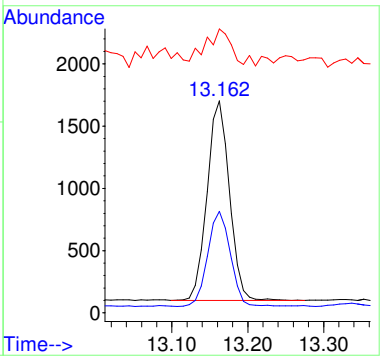


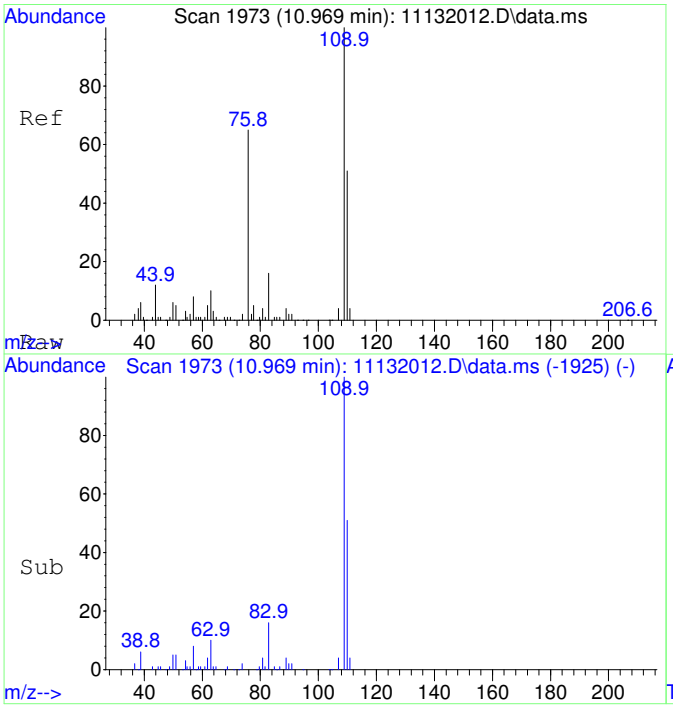


#19
m&p-Xylene
Concen: 35.52 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 91 Resp: 3278

Ion	Ratio	Lower	Upper
91	100		
106	47.8	22.2	82.2
77	19.3	0.0	42.4

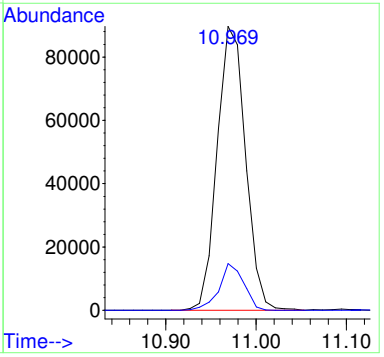


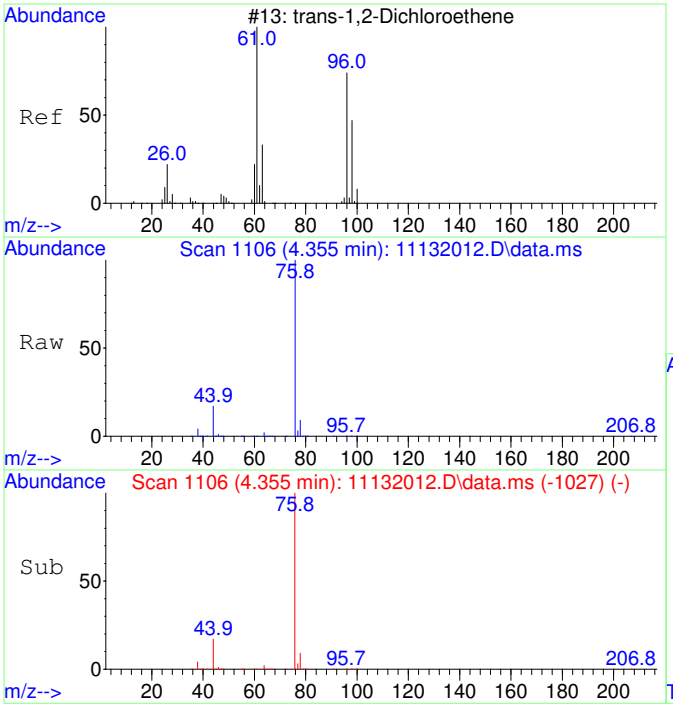


#25
2-Fluorotoluene SCAN
Concen: 5194.73 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion:109 Resp: 196828

Ion	Ratio	Lower	Upper
109	100		
83	14.3	0.0	43.8

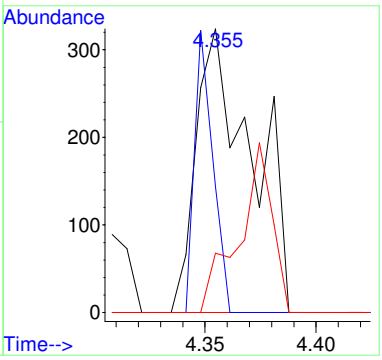


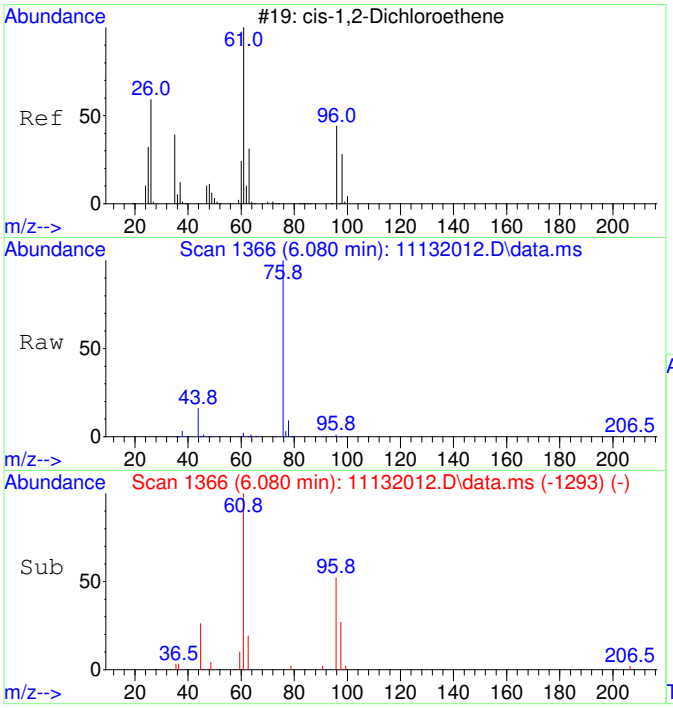


#27
trans-1,2-Dichloroethene SCAN
Concen: 56.94 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. -0.046 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 61 Resp: 567

Ion	Ratio	Lower	Upper
61	100		
96	32.6	49.0	109.0#
98	0.0	20.5	80.5#

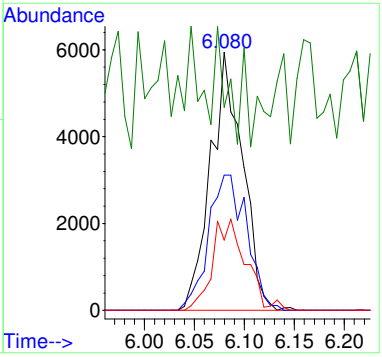


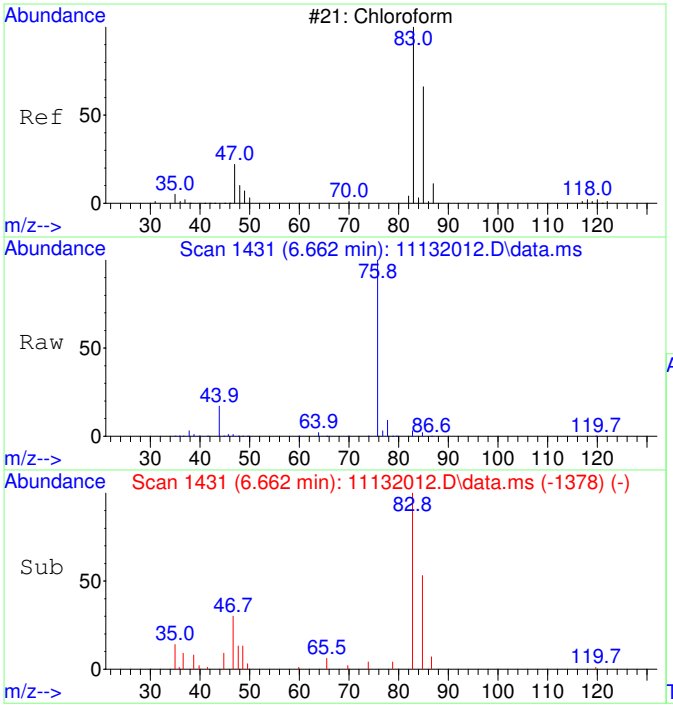


#29
cis-1,2-Dichloroethene SCAN
Concen: 1072.78 ug/L
RT: 6.080 min Scan# 1366
Delta R.T. -0.013 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 61 Resp: 13245

Ion	Ratio	Lower	Upper
61	100		
96	62.6	39.9	99.9
98	33.8	13.5	73.5
64	12.4	4.5	64.5

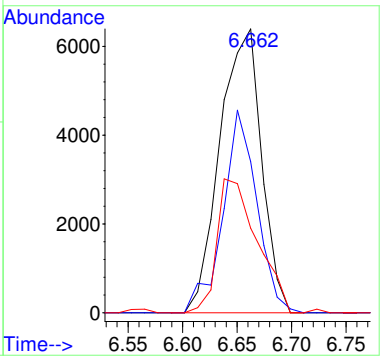


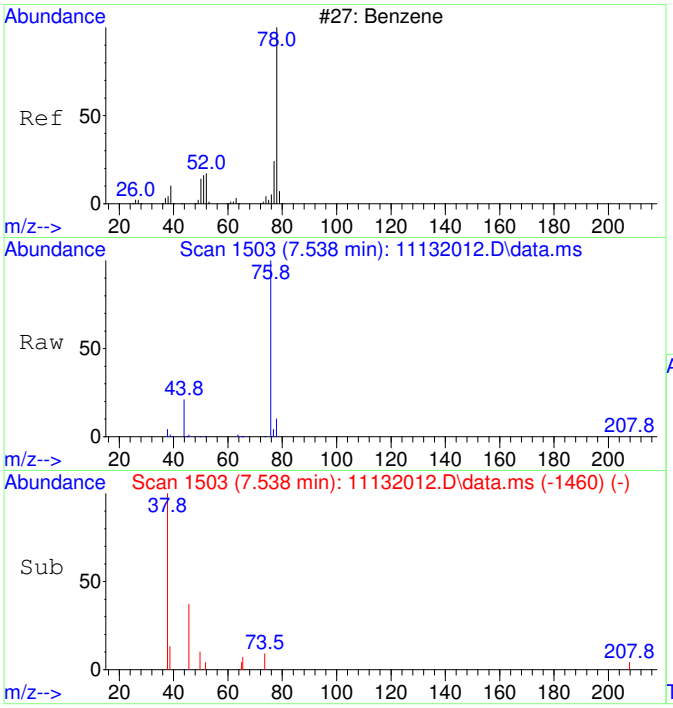


#30
Chloroform SCAN
Concen: 1268.42 ug/L
RT: 6.662 min Scan# 1431
Delta R.T. 0.000 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 83 Resp: 16986

Ion	Ratio	Lower	Upper
83	100		
85	58.2	34.6	94.6
47	0.0	0.0	53.4

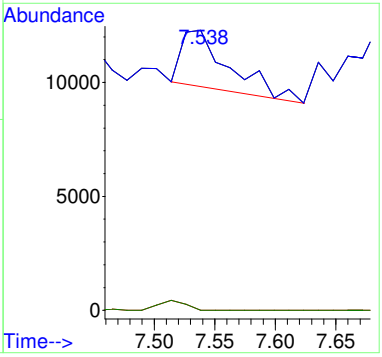


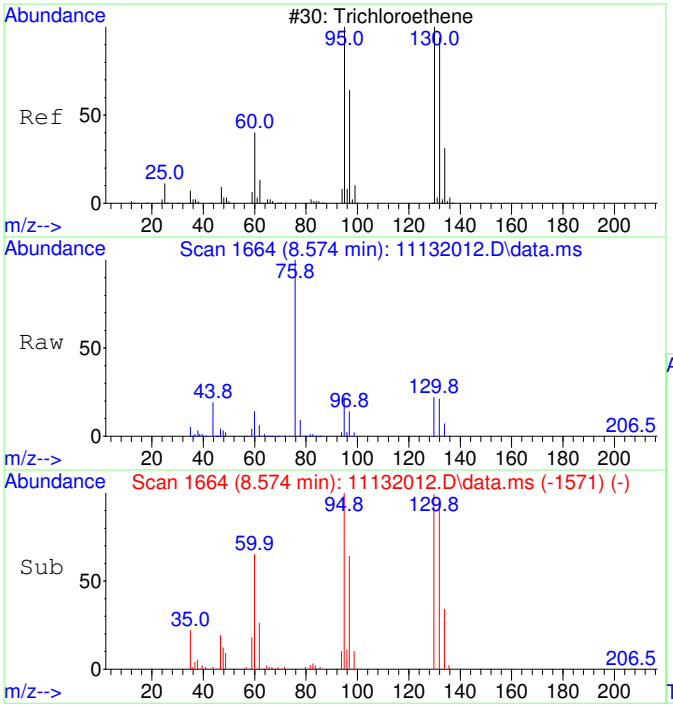


#33
Benzene SCAN
Concen: 189.91 ug/L
RT: 7.538 min Scan# 1503
Delta R.T. 0.024 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 78 Resp: 6381

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

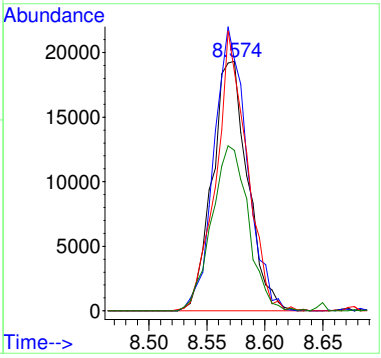


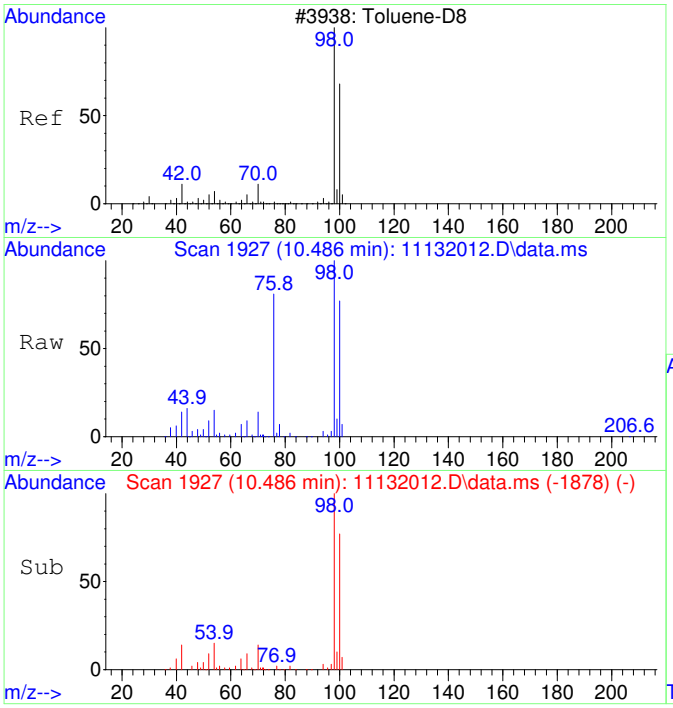


#35
Trichloroethene SCAN
Concen: 4454.71 ug/L
RT: 8.574 min Scan# 1664
Delta R.T. 0.005 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion:130 Resp: 41133

Ion	Ratio	Lower	Upper
130	100		
95	106.4	60.5	120.5
132	98.1	59.6	119.6
97	68.6	28.2	88.2

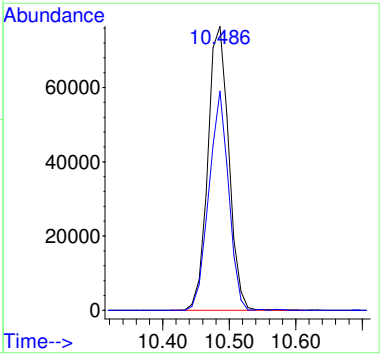


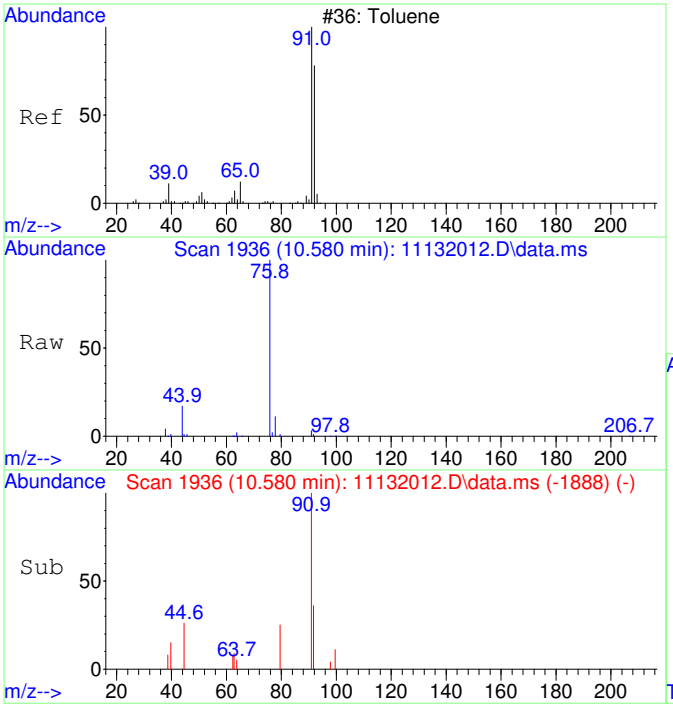


#36
Toluene-d8 SCAN
Concen: 4536.64 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 98 Resp: 168106

Ion	Ratio	Lower	Upper
98	100		
100	72.1	40.0	100.0

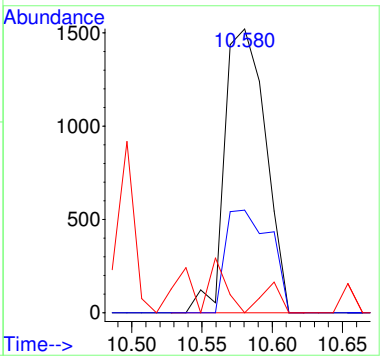


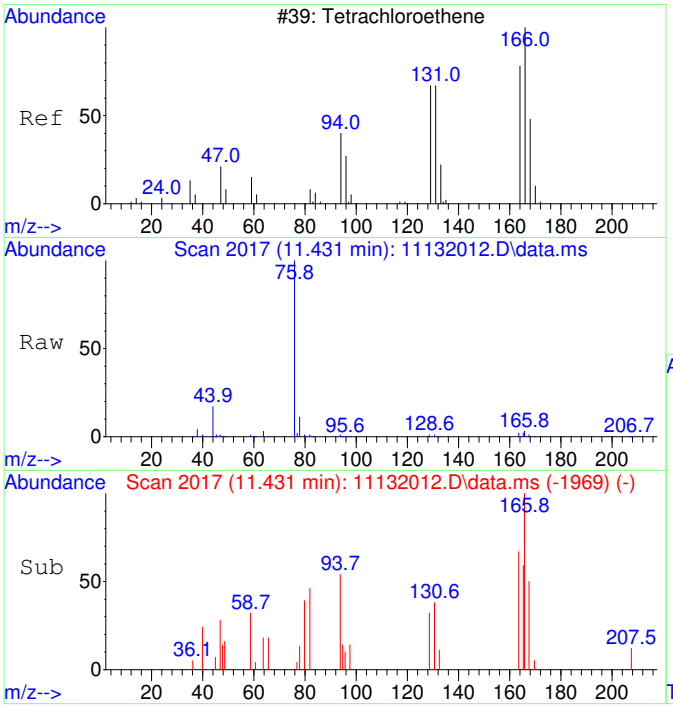


#37
Toluene SCAN
Concen: 65.26 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion: 91 Resp: 3097

Ion	Ratio	Lower	Upper
91	100		
92	39.6	28.3	88.3
65	0.0	0.0	41.0

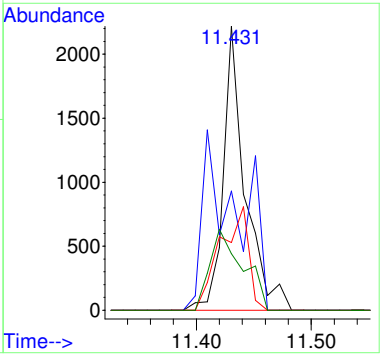




#39
Tetrachloroethene SCAN
Concen: 257.44 ug/L
RT: 11.431 min Scan# 2017
Delta R.T. 0.000 min
Lab File: 11132012.D
Acq: 13 Nov 2020 15:06

Tgt Ion:166 Resp: 2935

Ion	Ratio	Lower	Upper
166	100		
164	0.0	50.9	110.9#
131	47.3	38.7	98.7
129	0.0	41.8	101.8#



2011015-13RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132013.D
Acq On : 13 Nov 2020 15:29
InstName : AG5975C
Operator : TD
Sample : 2011015-13RE1
Misc : 20X DL (190-10)
ALS Vial : 13 Sample Multiplier: 20

Quant Time: Nov 16 08:54:07 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

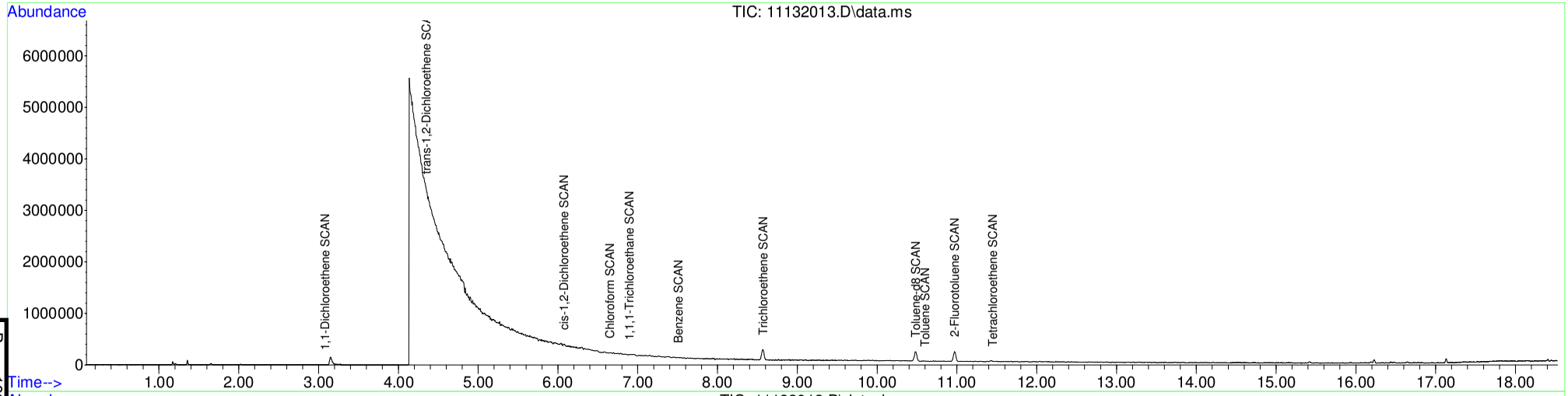
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	325663	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.477	98	275793	4326.03	ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.52%				
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.086	61	1243	95.58	ug/L		83
3] trans-1,2-Dichloroethene	4.336	61	1698	113.01	ug/L		84
4] 1,1-Dichloroethane	5.059	63	908	48.55	ug/L	#	30
5] cis-1,2-Dichloroethene	6.074	61	28972	1467.52	ug/L	RPT	98
6] Chloroform	6.639	83	11311	559.76	ug/L		98
7] 1,1,1-Trichloroethane	6.895	97	1140	51.95	ug/L		98
9] Benzene	7.503	78	3414	61.70	ug/L	#	1
11] Trichloroethene	8.569	130	146911	8818.33	ug/L	RPT	93
13] Toluene	10.582	91	4802	59.08	ug/L		97
15] Tetrachloroethene	11.432	166	9845	418.55	ug/L		100
19] m&p-Xylene	13.162	91	2412	31.19	ug/L		86
25) 2-Fluorotoluene SCAN	10.969	109	156612	4933.26	ug/L		91
26) 1,1-Dichloroethene SCAN	3.081	61	219	32.48	ug/L	#	74
27) trans-1,2-Dichloroethe...	4.348	61	812	97.33	ug/L	#	21
29) cis-1,2-Dichloroethene...	6.073	61	16875	1631.31	ug/L		82
30) Chloroform SCAN	6.650	83	6538	582.71	ug/L		92
31) 1,1,1-Trichloroethane ...	6.894	97	753	73.65	ug/L	#	19
33) Benzene SCAN	7.502	78	9856	350.10	ug/L		93
35) Trichloroethene SCAN	8.568	130	70888	9162.93	ug/L		86
36) Toluene-d8 SCAN	10.486	98	145325	4680.84	ug/L		90
37) Toluene SCAN	10.601	91	2298	57.80	ug/L	#	30
39) Tetrachloroethene SCAN	11.441	166	5235	548.04	ug/L		95

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132013.D
Acq On : 13 Nov 2020 15:29
InstName : AG5975C
Operator : TD
Sample : 2011015-13RE1
Misc : 20X DL (190-10)
ALS Vial : 13 Sample Multiplier: 20

Quant Time: Nov 16 08:54:07 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



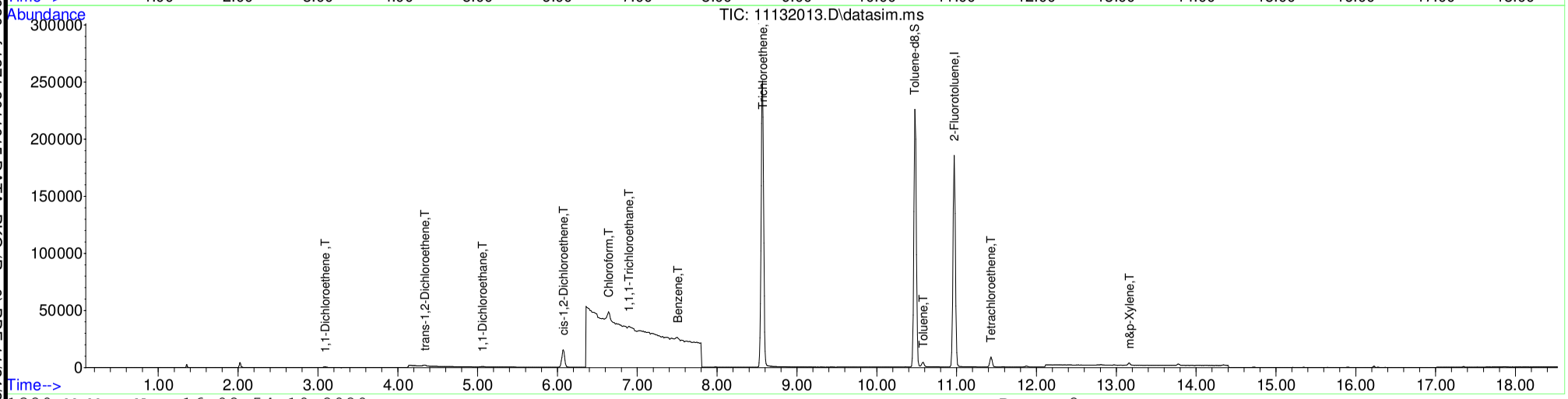
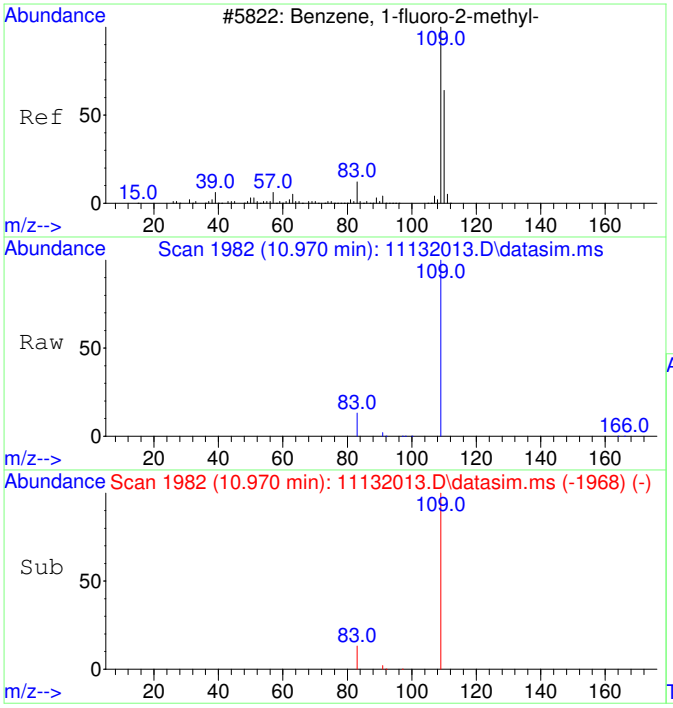


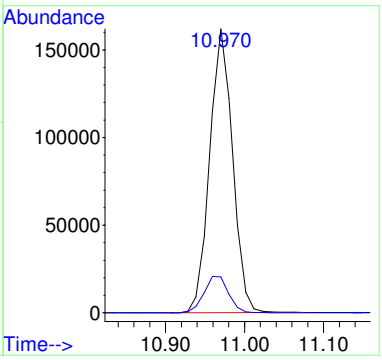
Table of Contents

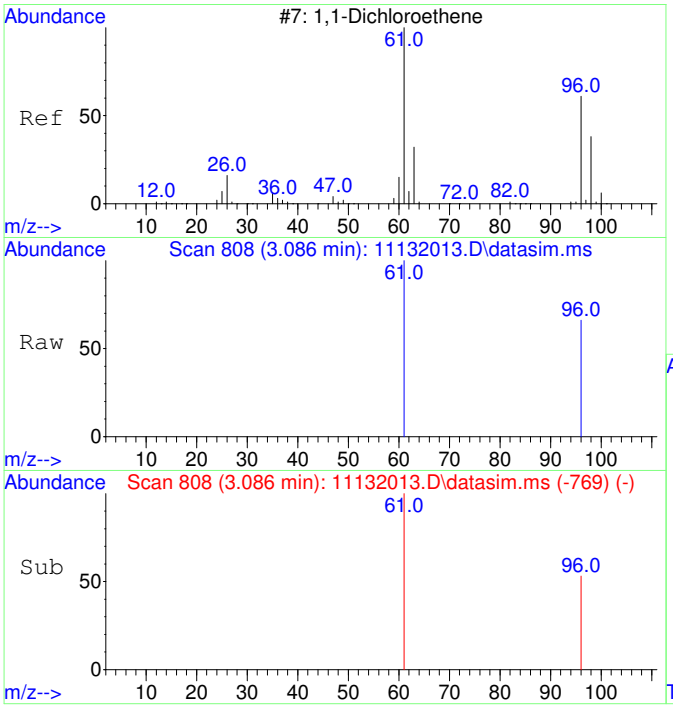


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion:109 Resp: 325663

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

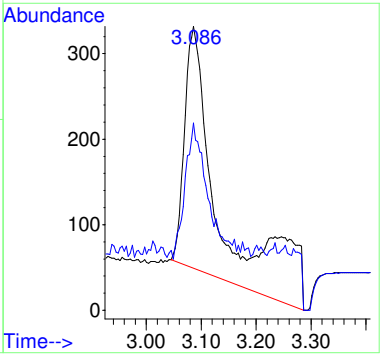


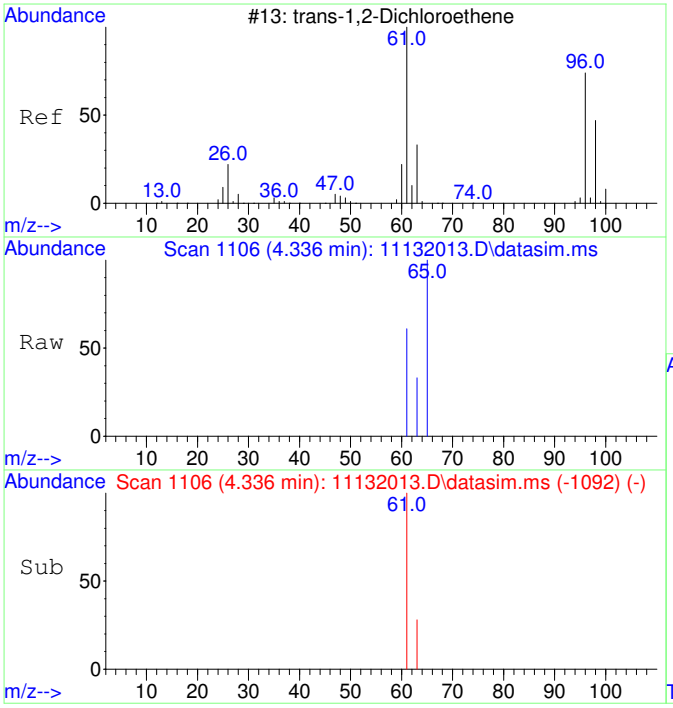


#2
1,1-Dichloroethene
Concen: 95.58 ug/L
RT: 3.086 min Scan# 808
Delta R.T. -0.004 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 61 Resp: 1243

Ion	Ratio	Lower	Upper
61	100		
96	53.5	37.2	97.2

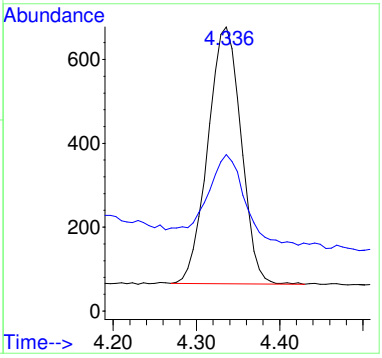


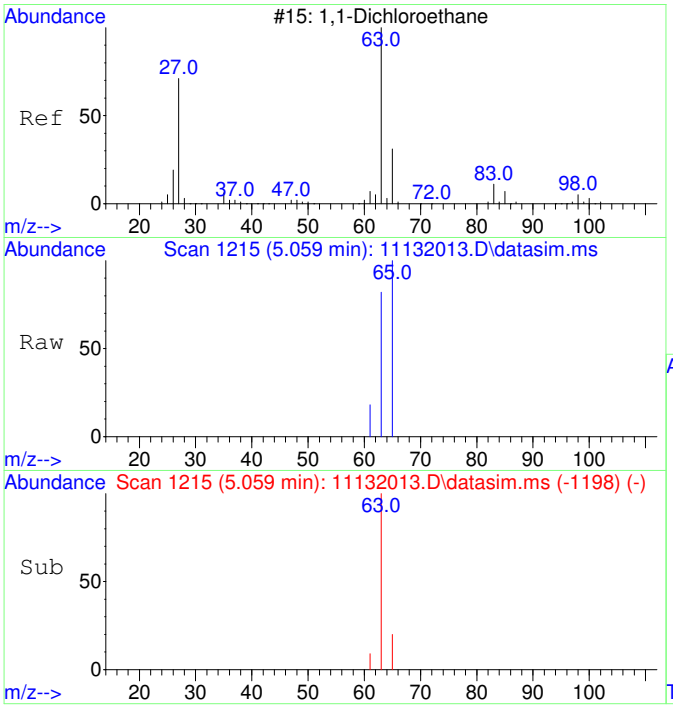


#3
trans-1,2-Dichloroethene
Concen: 113.01 ug/L
RT: 4.336 min Scan# 1106
Delta R.T. -0.060 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 61 Resp: 1698

Ion	Ratio	Lower	Upper
61	100		
63	41.2	2.4	62.4

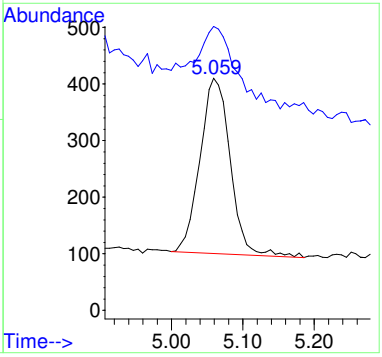


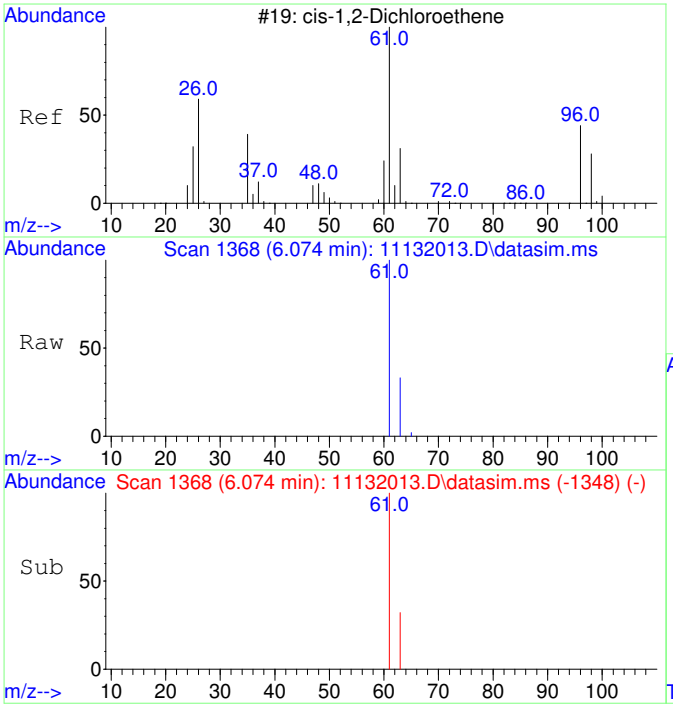


#4
1,1-Dichloroethane
Concen: 48.55 ug/L
RT: 5.059 min Scan# 1215
Delta R.T. -0.040 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 63 Resp: 908

Ion	Ratio	Lower	Upper
63	100		
65	70.5	1.8	61.8#

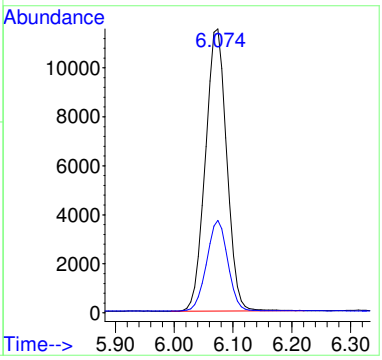


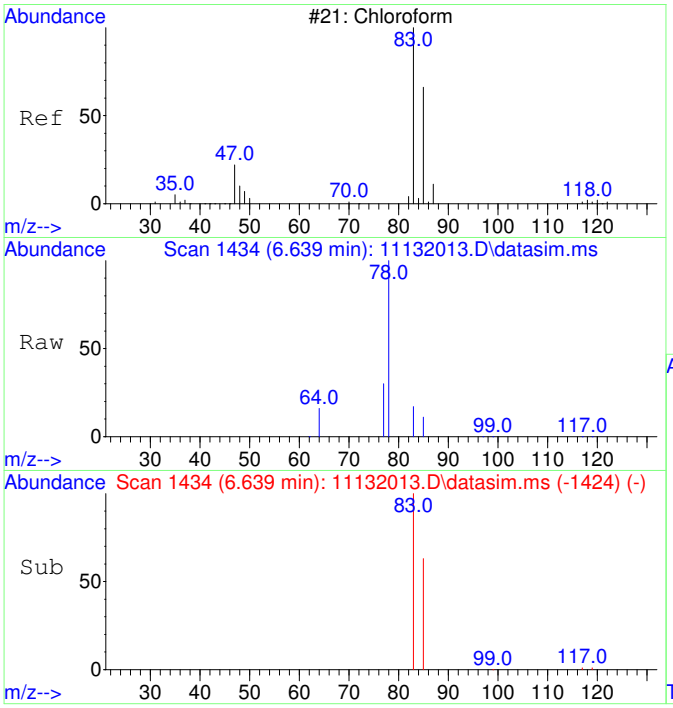


#5
cis-1,2-Dichloroethene
Concen: 1467.52 ug/L
RT: 6.074 min Scan# 1368
Delta R.T. -0.020 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 61 Resp: 28972

Ion	Ratio	Lower	Upper
61	100		
63	31.5	2.5	62.5

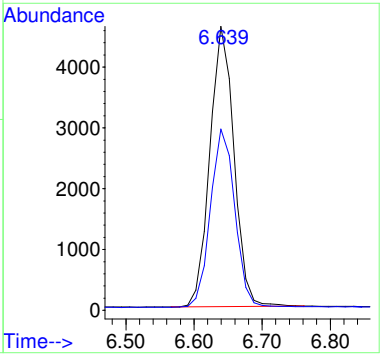


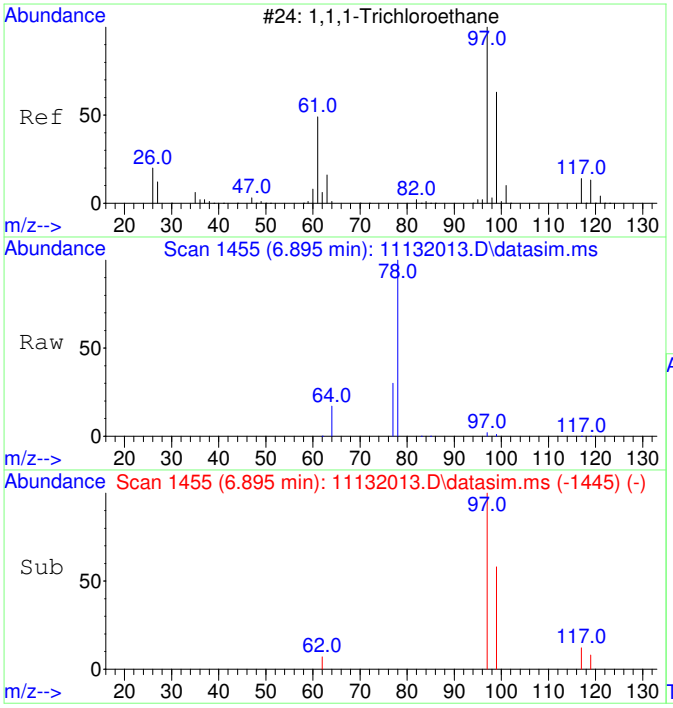


#6
Chloroform
Concen: 559.76 ug/L
RT: 6.639 min Scan# 1434
Delta R.T. -0.024 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 83 Resp: 11311

Ion	Ratio	Lower	Upper
83	100		
85	63.9	35.1	95.1

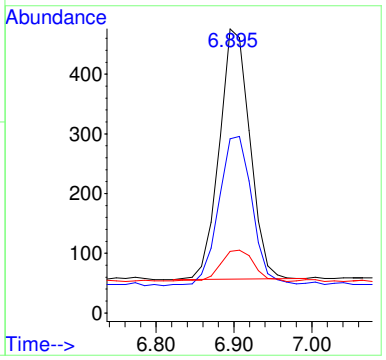


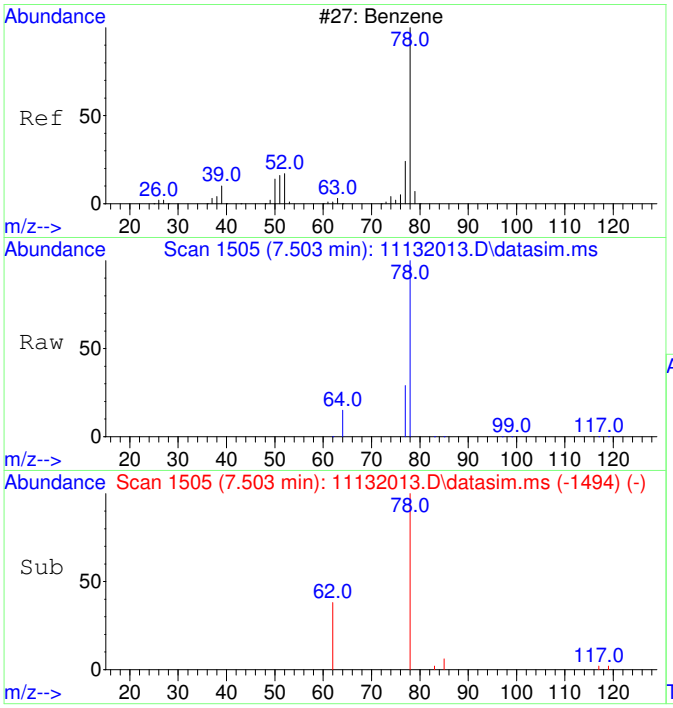


#7
1,1,1-Trichloroethane
Concen: 51.95 ug/L
RT: 6.895 min Scan# 1455
Delta R.T. -0.024 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 97 Resp: 1140

Ion	Ratio	Lower	Upper
97	100		
99	66.0	34.6	94.6
117	13.9	0.0	43.2

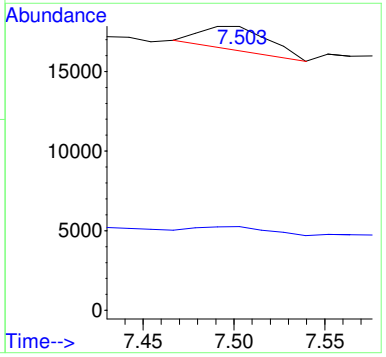


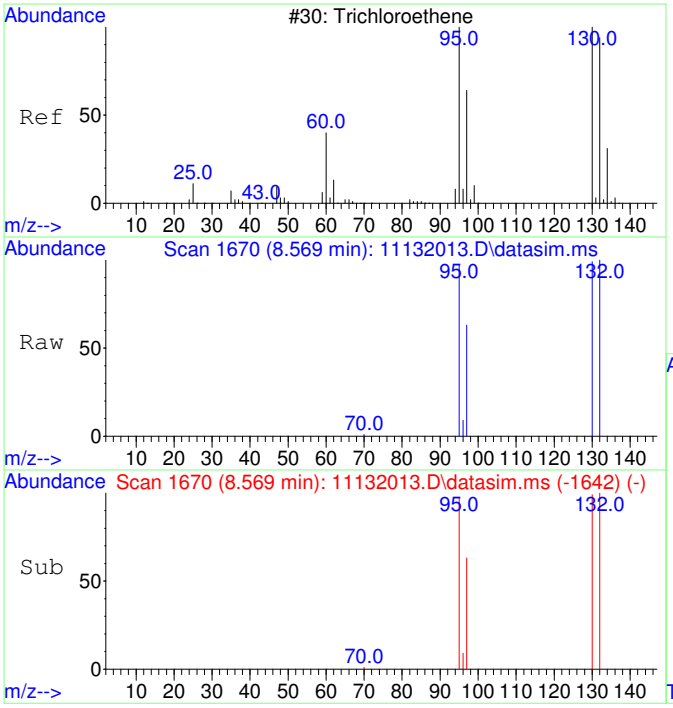


#9
Benzene
Concen: 61.70 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 78 Resp: 3414

Ion	Ratio	Lower	Upper
78	100		
77	82.6	0.0	53.2#

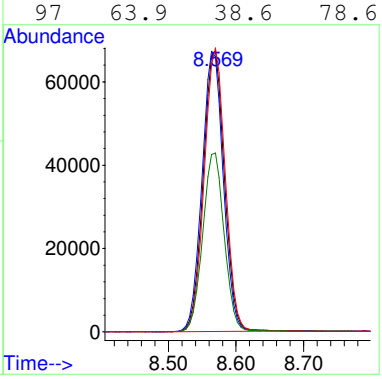


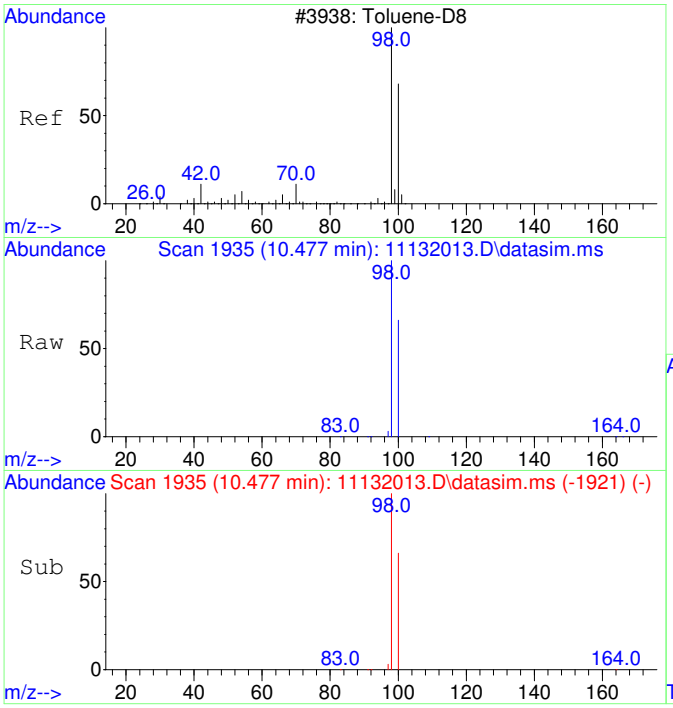


#11
Trichloroethene
Concen: 8818.33 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion:130 Resp: 146911

Ion	Ratio	Lower	Upper
130	100		
95	99.9	60.7	120.7
132	99.8	76.0	116.0
97	63.9	38.6	78.6

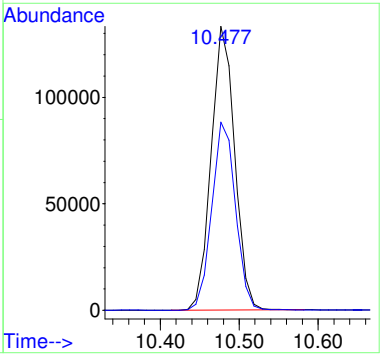


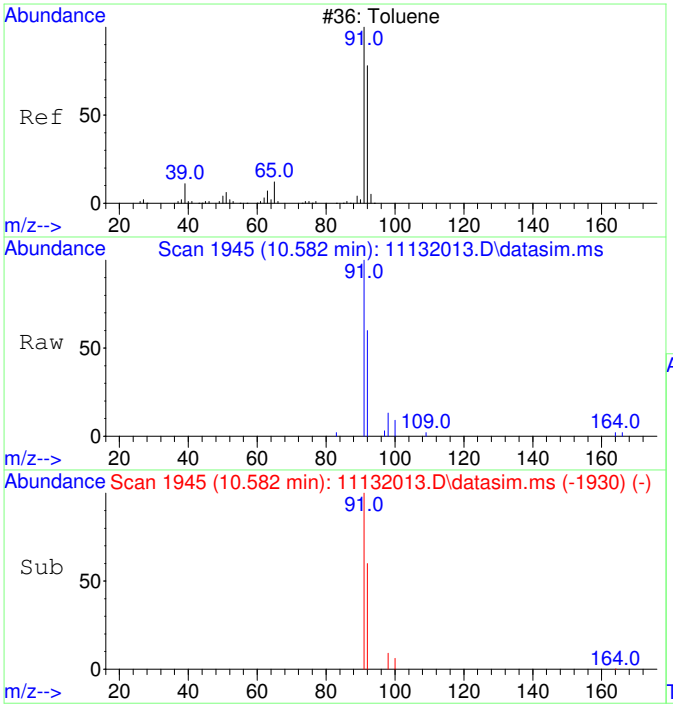


#12
Toluene-d8
Concen: 4326.03 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 98 Resp: 275793

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

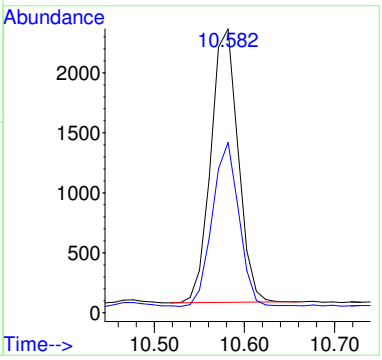


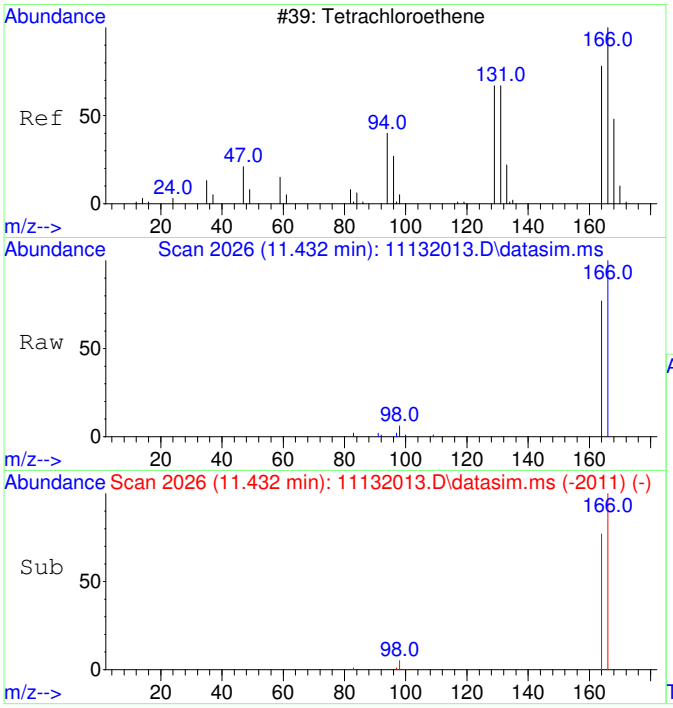


#13
Toluene
Concen: 59.08 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.010 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 91 Resp: 4802

Ion	Ratio	Lower	Upper
91	100		
92	58.0	29.9	89.9

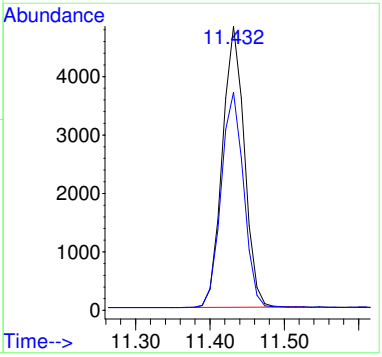


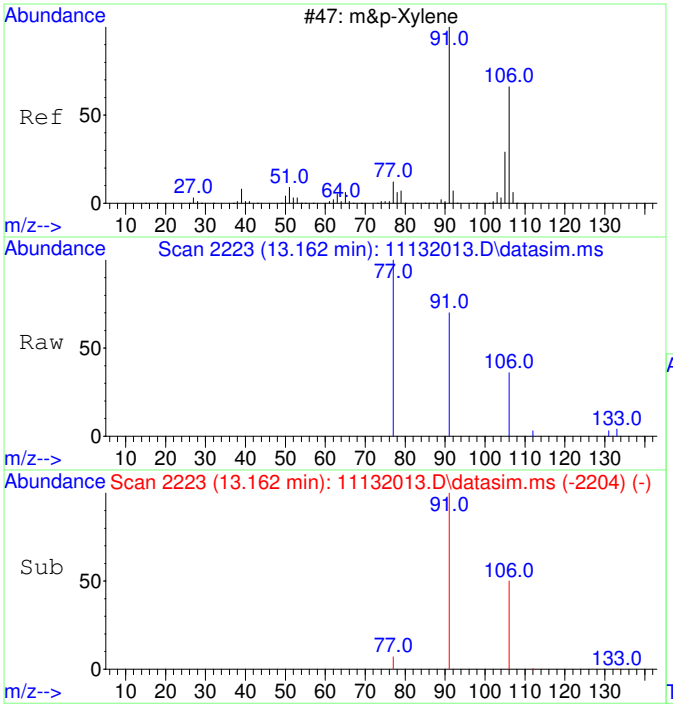


#15
Tetrachloroethene
Concen: 418.55 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion:166 Resp: 9845

Ion	Ratio	Lower	Upper
166	100		
164	78.1	47.8	107.8

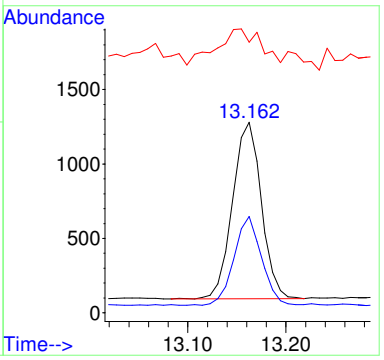


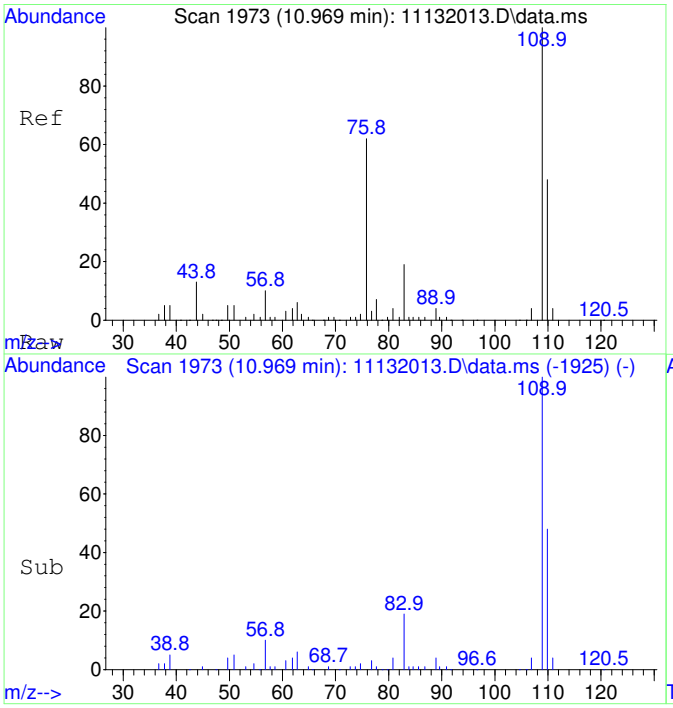


#19
m&p-Xylene
Concen: 31.19 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 91 Resp: 2412

Ion	Ratio	Lower	Upper
91	100		
106	47.5	22.2	82.2
77	30.5	0.0	42.4

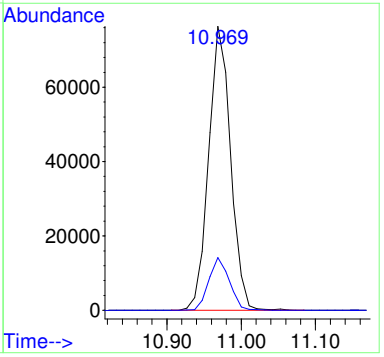


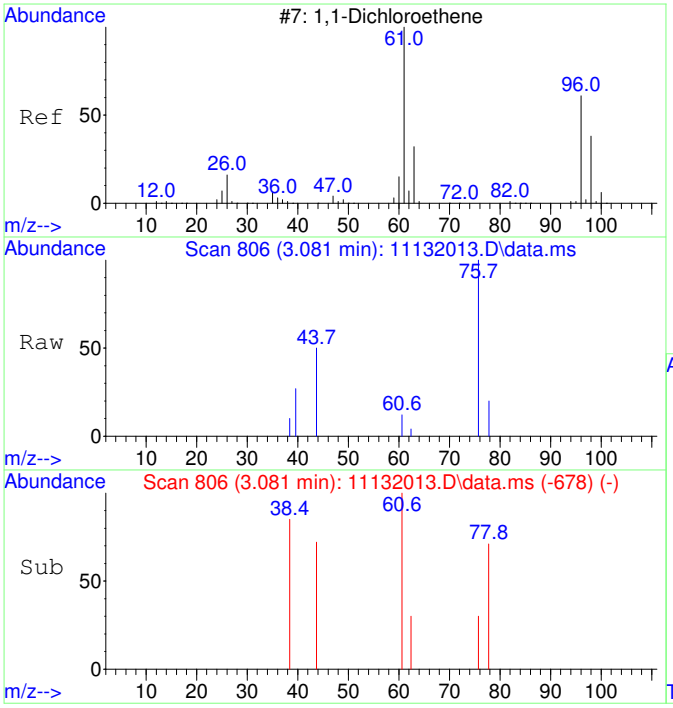


#25
2-Fluorotoluene SCAN
Concen: 4933.26 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion:109 Resp: 156612

Ion	Ratio	Lower	Upper
109	100		
83	17.4	0.0	43.8

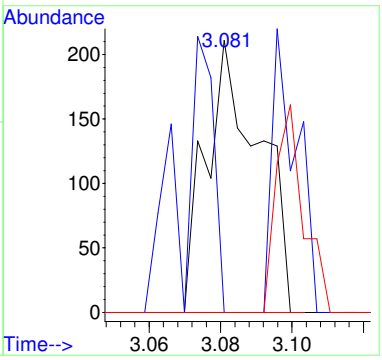


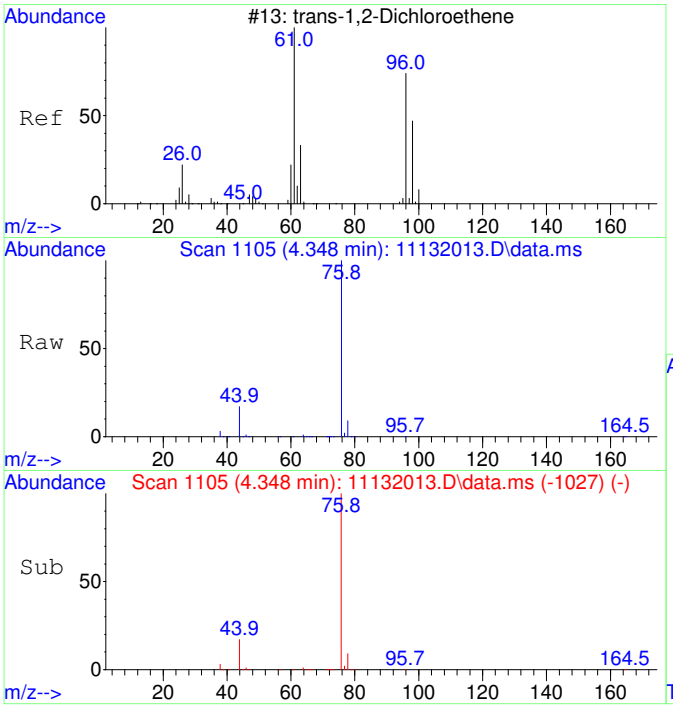


#26
1,1-Dichloroethene SCAN
Concen: 32.48 ug/L
RT: 3.081 min Scan# 806
Delta R.T. -0.026 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 61 Resp: 219

Ion	Ratio	Lower	Upper
61	100		
96	63.0	33.1	93.1
98	0.0	11.2	71.2#

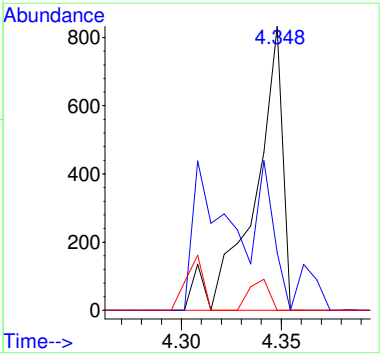


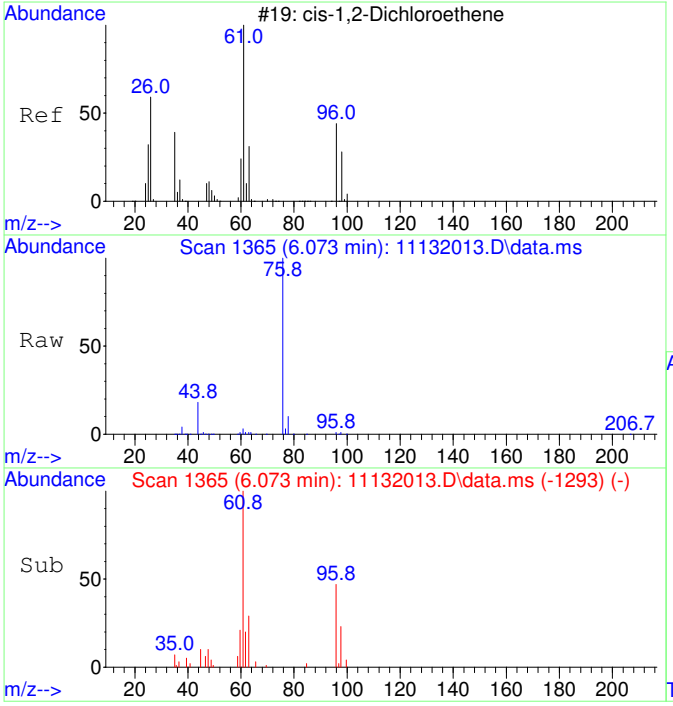


#27
trans-1,2-Dichloroethene SCAN
Concen: 97.33 ug/L
RT: 4.348 min Scan# 1105
Delta R.T. -0.053 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 61 Resp: 812

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	7.9	20.5	80.5#

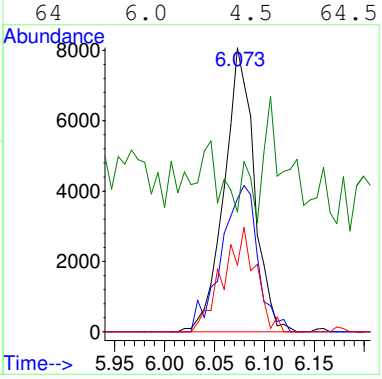


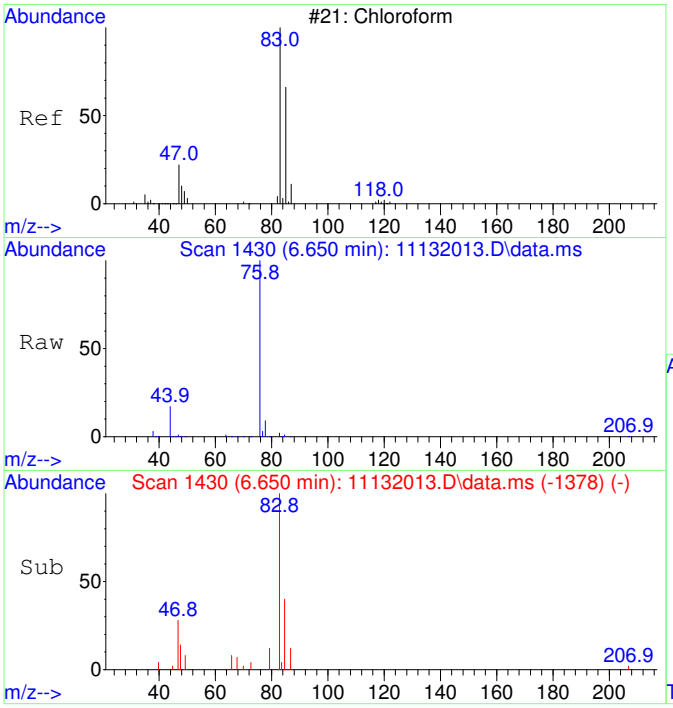


#29
cis-1,2-Dichloroethene SCAN
Concen: 1631.31 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.020 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 61 Resp: 16875

Ion	Ratio	Lower	Upper
61	100		
96	62.1	39.9	99.9
98	39.7	13.5	73.5
64	6.0	4.5	64.5

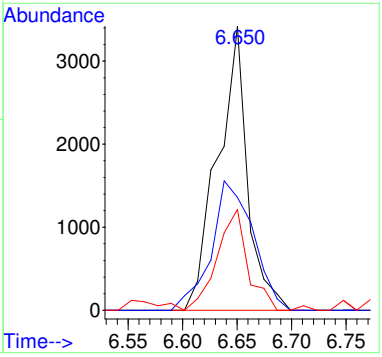


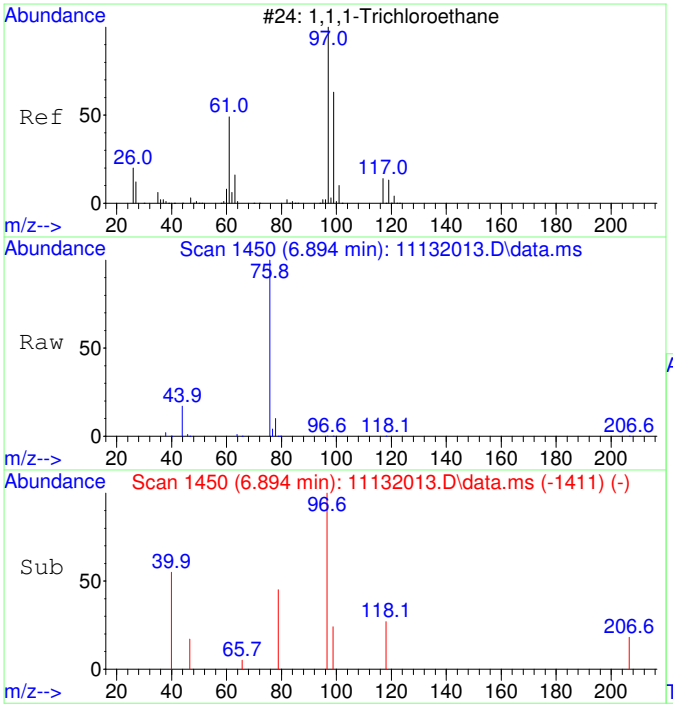


#30
Chloroform SCAN
Concen: 582.71 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 83 Resp: 6538

Ion	Ratio	Lower	Upper
83	100		
85	63.6	34.6	94.6
47	36.2	0.0	53.4

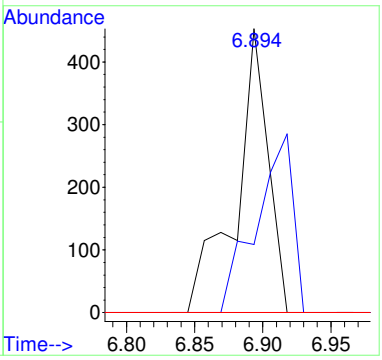


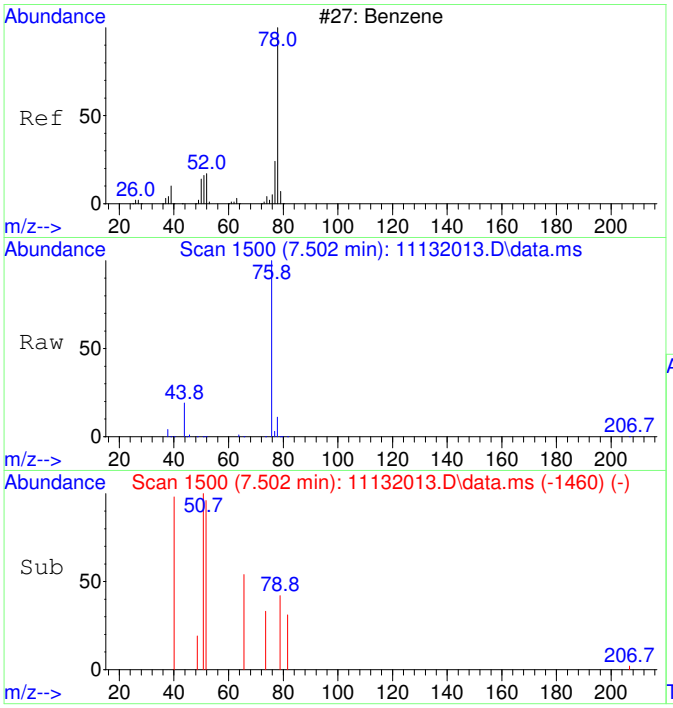


#31
1,1,1-Trichloroethane SCAN
Concen: 73.65 ug/L
RT: 6.894 min Scan# 1450
Delta R.T. -0.024 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 97 Resp: 753

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

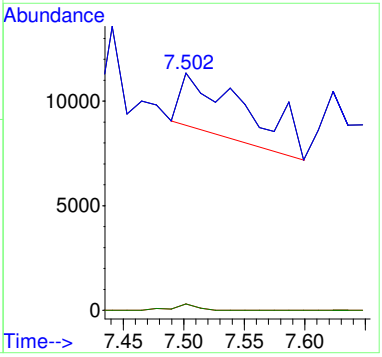


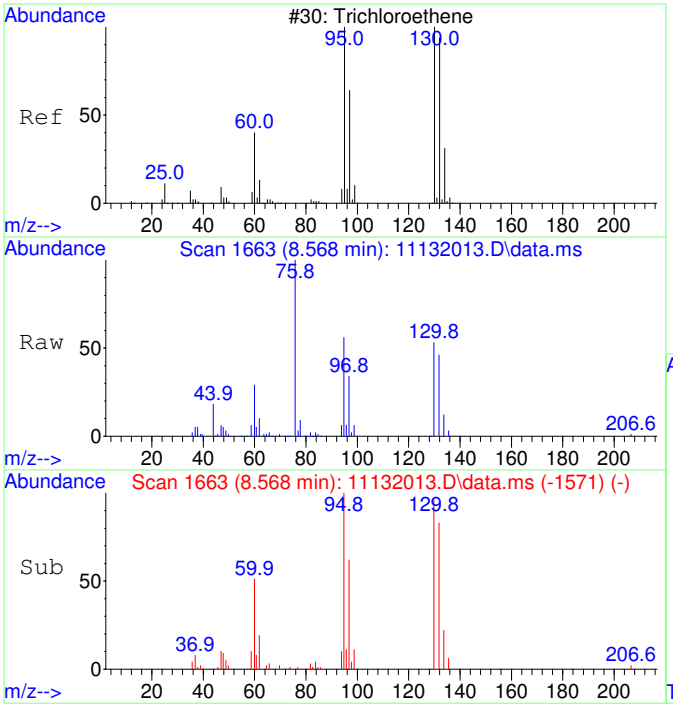


#33
Benzene SCAN
Concen: 350.10 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 78 Resp: 9856

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	4.1	0.0	47.9
51	4.1	0.0	44.1

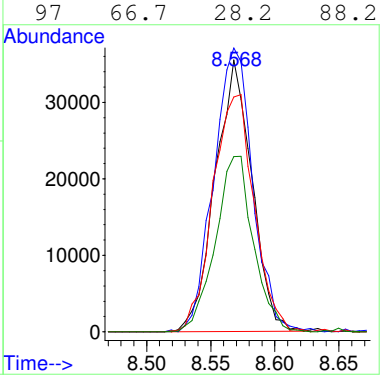


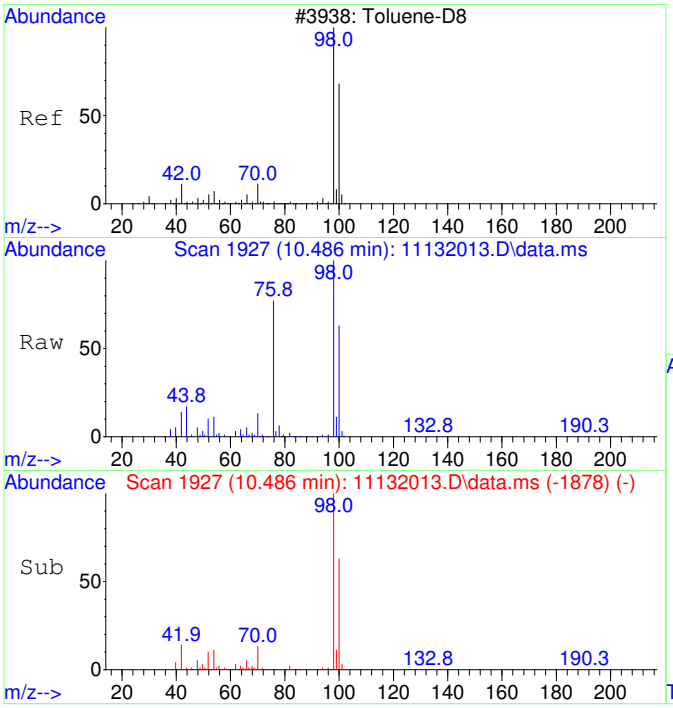


#35
Trichloroethene SCAN
Concen: 9162.93 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion:130 Resp: 70888

Ion	Ratio	Lower	Upper
130	100		
95	111.0	60.5	120.5
132	97.8	59.6	119.6
97	66.7	28.2	88.2

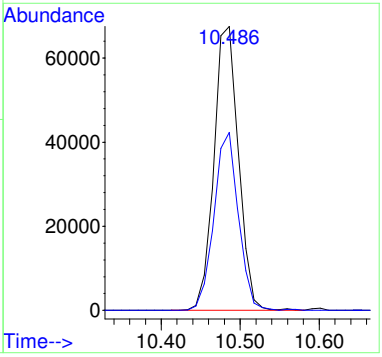


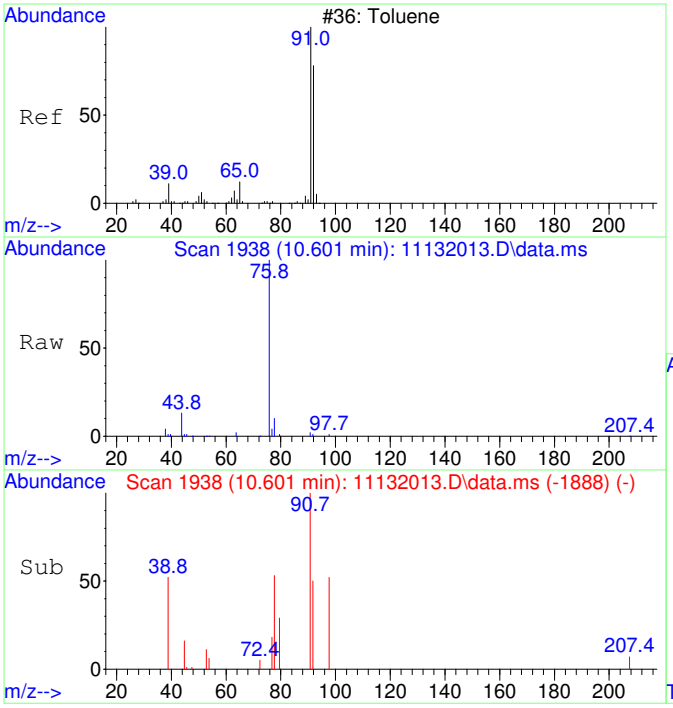


#36
Toluene-d8 SCAN
Concen: 4680.84 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 98 Resp: 145325

Ion	Ratio	Lower	Upper
98	100		
100	62.2	40.0	100.0

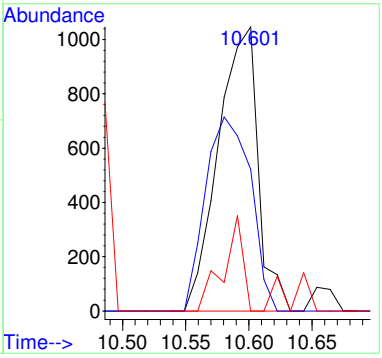


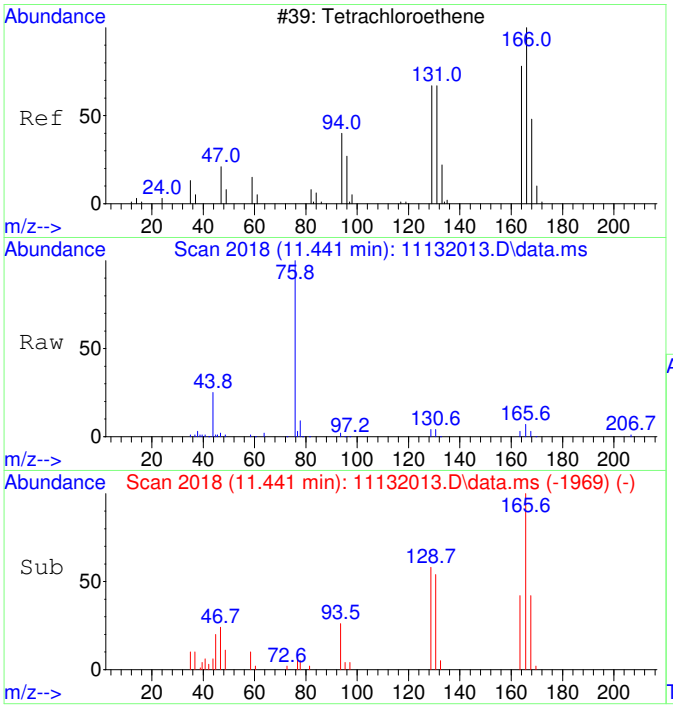


#37
Toluene SCAN
Concen: 57.80 ug/L
RT: 10.601 min Scan# 1938
Delta R.T. 0.021 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion: 91 Resp: 2298

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

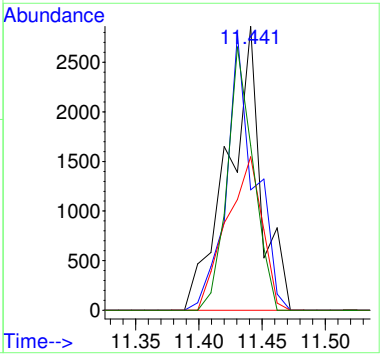




#39
Tetrachloroethene SCAN
Concen: 548.04 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.010 min
Lab File: 11132013.D
Acq: 13 Nov 2020 15:29

Tgt Ion:166 Resp: 5235

Ion	Ratio	Lower	Upper
166	100		
164	82.8	50.9	110.9
131	58.0	38.7	98.7
129	73.1	41.8	101.8



2011015-15RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132014.D
Acq On : 13 Nov 2020 15:53
InstName : AG5975C
Operator : TD
Sample : 2011015-15RE1
Misc : 20X DL (190-10)
ALS Vial : 14 Sample Multiplier: 20

Quant Time: Nov 16 08:54:14 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

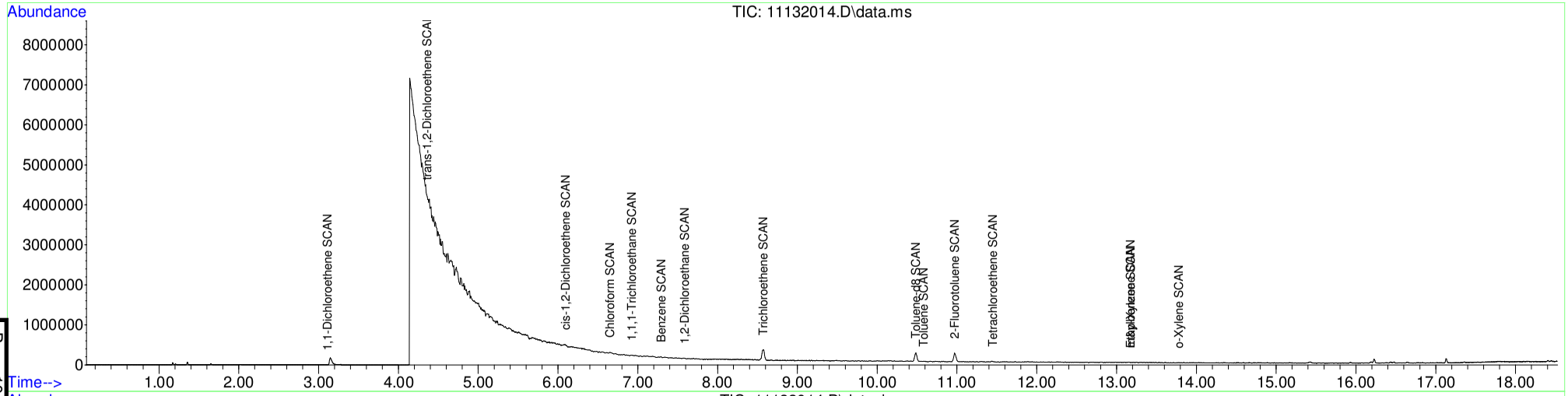
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	369640	5000.00 ug/L		0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	304518	4208.32 ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 84.17%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.082	61	1854	125.61 ug/L		65
3] trans-1,2-Dichloroethene	4.356	61	3049	178.79 ug/L		94
4] 1,1-Dichloroethane	5.079	63	1756	82.72 ug/L		61
5] cis-1,2-Dichloroethene	6.081	61	47687	2128.11 ug/L	RPT	98
6] Chloroform	6.652	83	23175	1010.44 ug/L		100
7] 1,1,1-Trichloroethane	6.907	97	2017	80.98 ug/L		100
9] Benzene	7.503	78	3550	56.53 ug/L #		1
10] 1,2-Dichloroethane	7.552	62	477	21.28 ug/L #		1
11] Trichloroethene	8.569	130	204812	10831.21 ug/L	RPT	94
13] Toluene	10.582	91	8043	87.18 ug/L		99
15] Tetrachloroethene	11.432	166	12844	481.08 ug/L		100
19] m&p-Xylene	13.163	91	3319	37.82 ug/L		91
20] o-Xylene	13.782	91	2109	22.49 ug/L		94
25) 2-Fluorotoluene SCAN	10.969	109	172421	4785.07 ug/L		96
26) 1,1-Dichloroethene SCAN	3.107	61	252	32.93 ug/L #		64
27) trans-1,2-Dichloroethe...	4.355	61	868	91.66 ug/L		87
29) cis-1,2-Dichloroethene...	6.086	61	27541	2345.64 ug/L #		82
30) Chloroform SCAN	6.650	83	14104	1107.49 ug/L		95
31) 1,1,1-Trichloroethane ...	6.918	97	772	66.52 ug/L		95
33) Benzene SCAN	7.295	78	8110	253.80 ug/L		93
34) 1,2-Dichloroethane SCAN	7.587	62	258	21.87 ug/L #		1
35) Trichloroethene SCAN	8.568	130	93848	10687.50 ug/L		83
36) Toluene-d8 SCAN	10.486	98	162519	4611.87 ug/L		95
37) Toluene SCAN	10.580	91	5124	113.54 ug/L #		85
39) Tetrachloroethene SCAN	11.441	166	6291	580.24 ug/L #		46
42) Ethylbenzene SCAN	13.169	91	1884	22.91 ug/L #		58
43) m&p-Xylene SCAN	13.169	91	1884	22.91 ug/L #		66
44) o-Xylene SCAN	13.773	91	1443	32.79 ug/L		71

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132014.D
Acq On : 13 Nov 2020 15:53
InstName : AG5975C
Operator : TD
Sample : 2011015-15RE1
Misc : 20X DL (190-10)
ALS Vial : 14 Sample Multiplier: 20

Quant Time: Nov 16 08:54:14 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



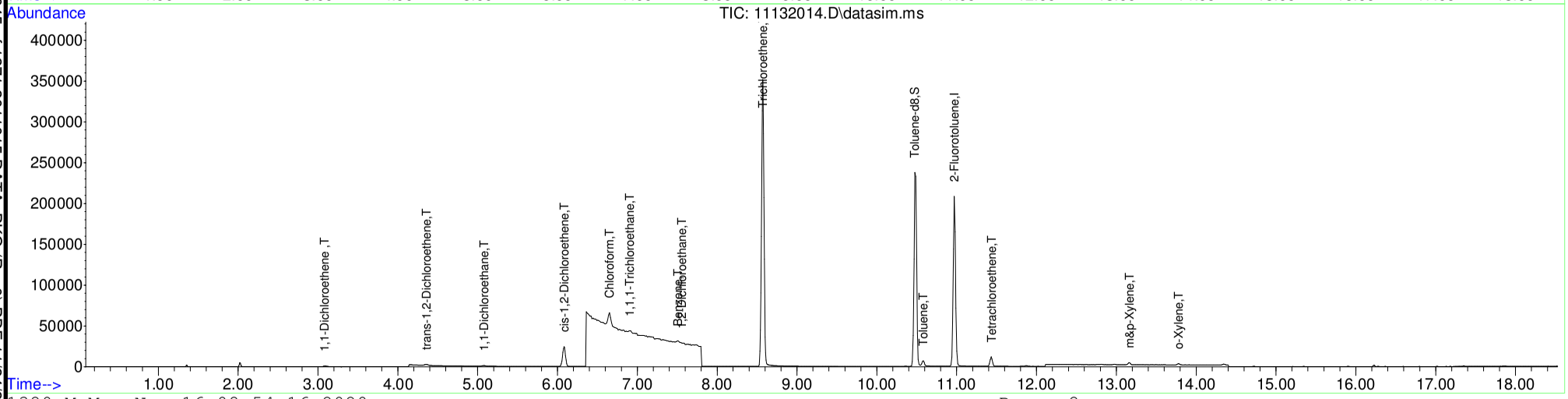
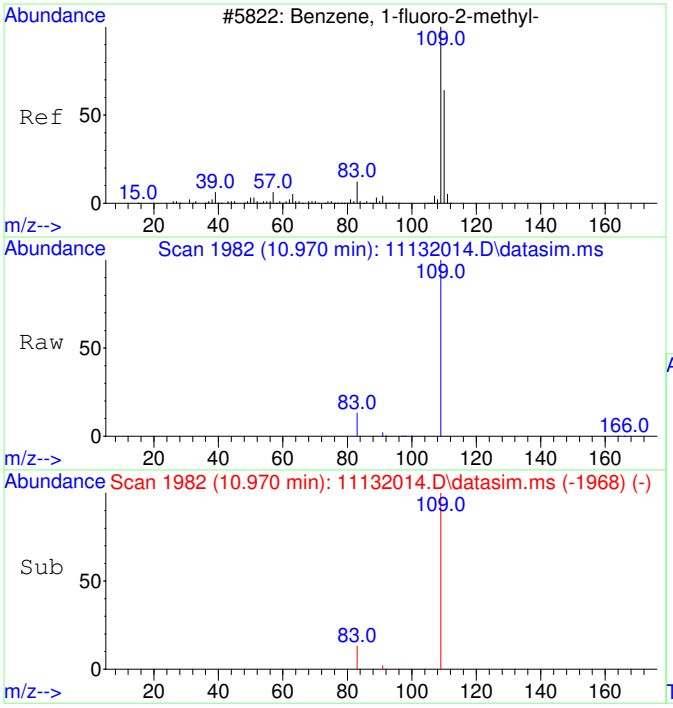


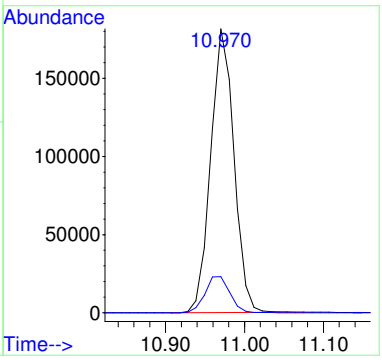
Table of Contents

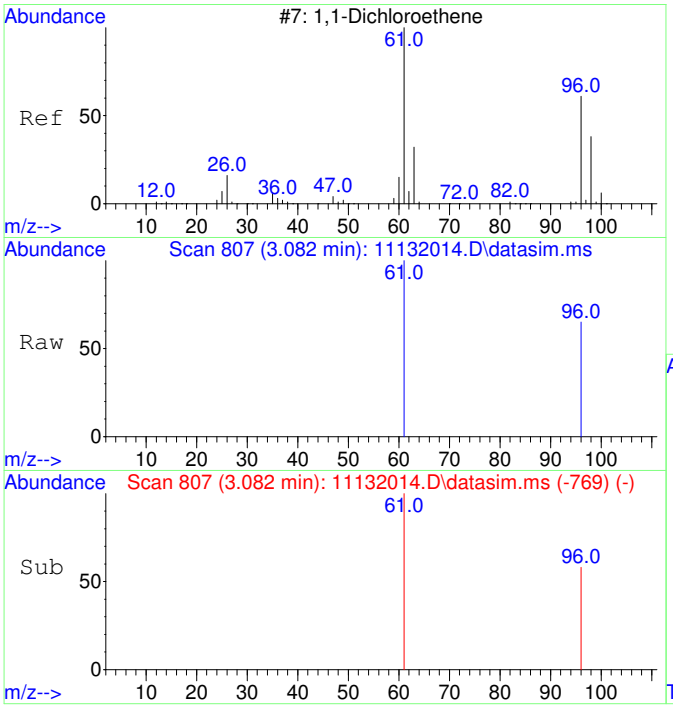


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion:109 Resp: 369640

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	42.3

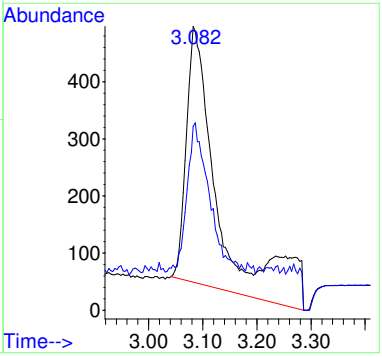


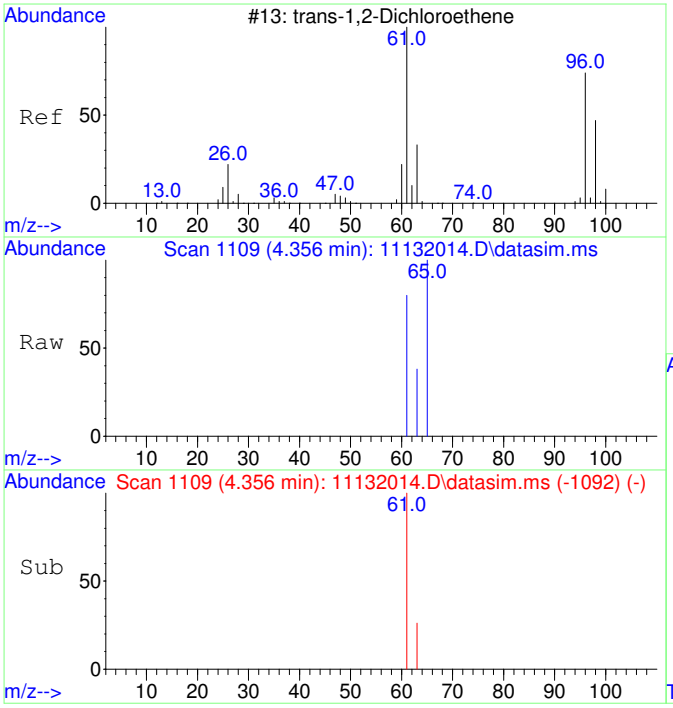


#2
1,1-Dichloroethene
Concen: 125.61 ug/L
RT: 3.082 min Scan# 807
Delta R.T. -0.007 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 61 Resp: 1854

Ion	Ratio	Lower	Upper
61	100		
96	39.4	37.2	97.2

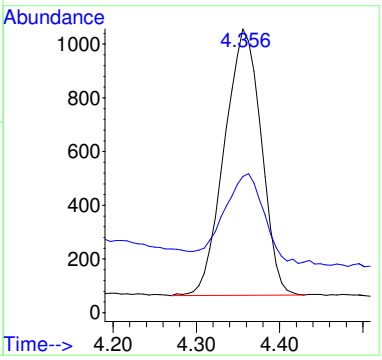


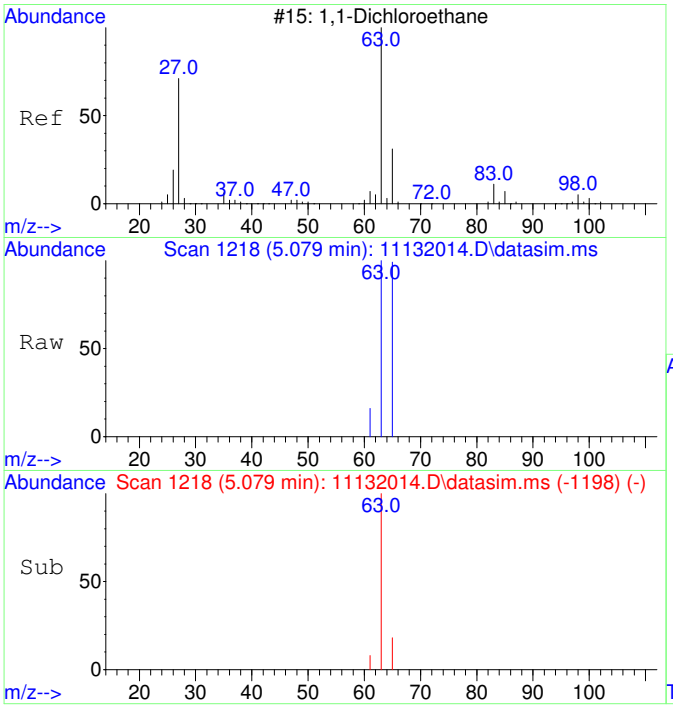


#3
trans-1,2-Dichloroethene
Concen: 178.79 ug/L
RT: 4.356 min Scan# 1109
Delta R.T. -0.040 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 61 Resp: 3049

Ion	Ratio	Lower	Upper
61	100		
63	35.9	2.4	62.4

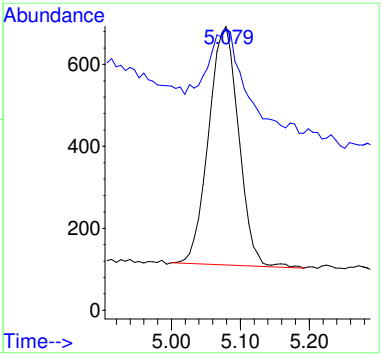


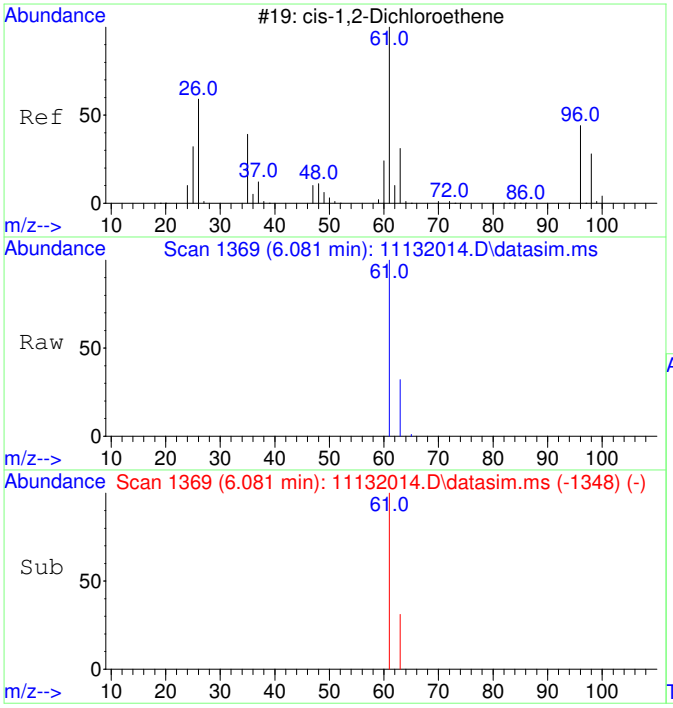


#4
1,1-Dichloroethane
Concen: 82.72 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 63 Resp: 1756

Ion	Ratio	Lower	Upper
63	100		
65	53.2	1.8	61.8

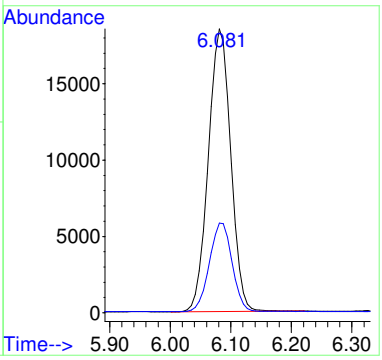


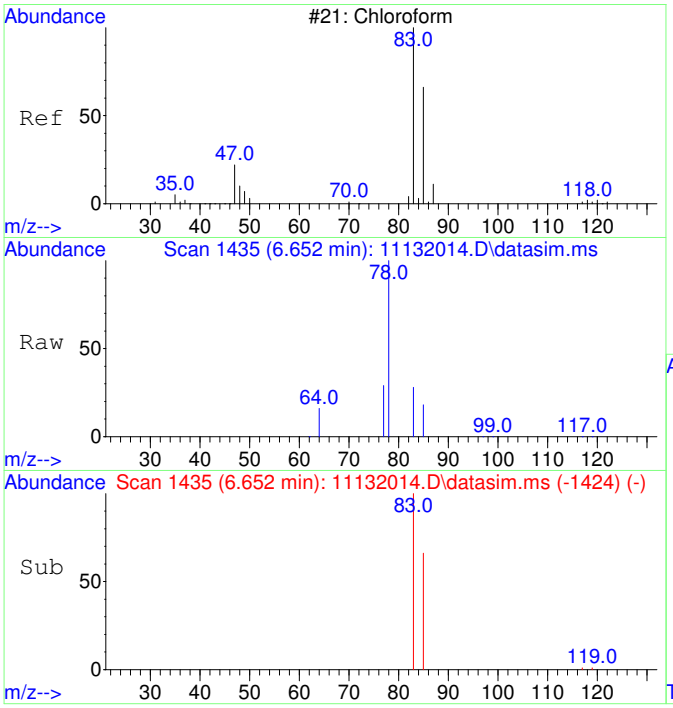


#5
cis-1,2-Dichloroethene
Concen: 2128.11 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 61 Resp: 47687

Ion	Ratio	Lower	Upper
61	100		
63	31.6	2.5	62.5

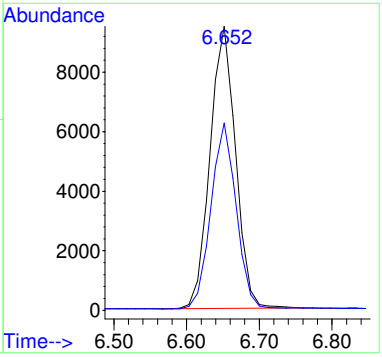


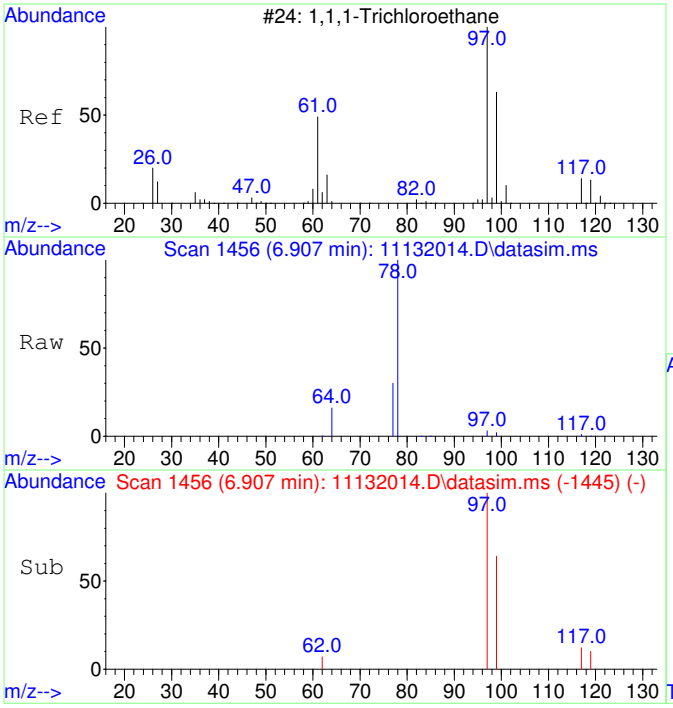


#6
Chloroform
Concen: 1010.44 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 83 Resp: 23175

Ion	Ratio	Lower	Upper
83	100		
85	64.7	35.1	95.1

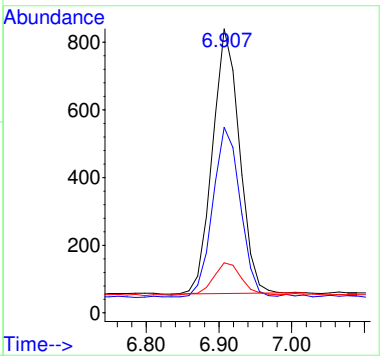


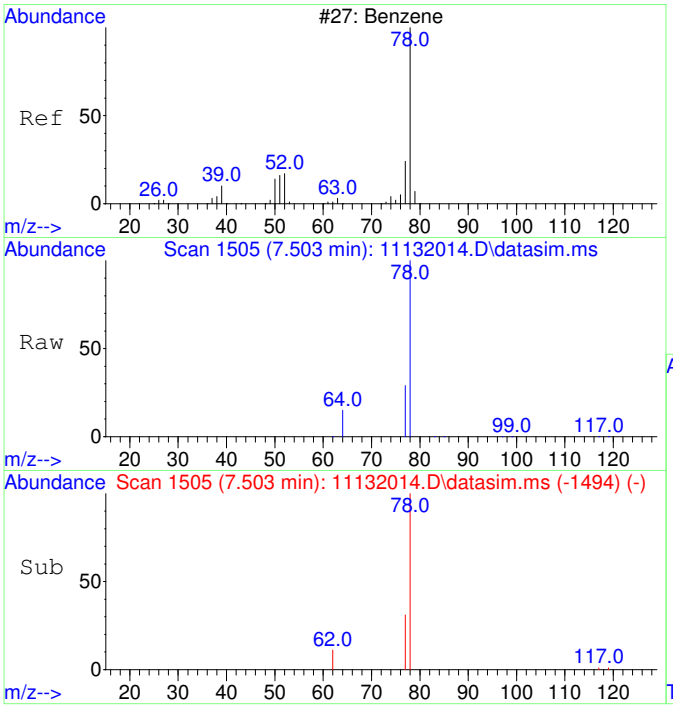


#7
1,1,1-Trichloroethane
Concen: 80.98 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 97 Resp: 2017

Ion	Ratio	Lower	Upper
97	100		
99	64.8	34.6	94.6
117	13.1	0.0	43.2

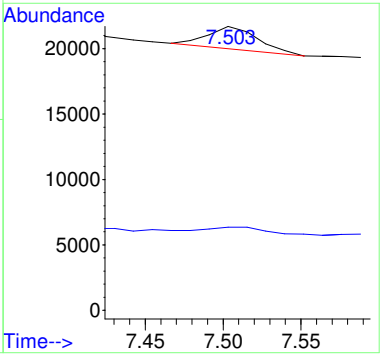


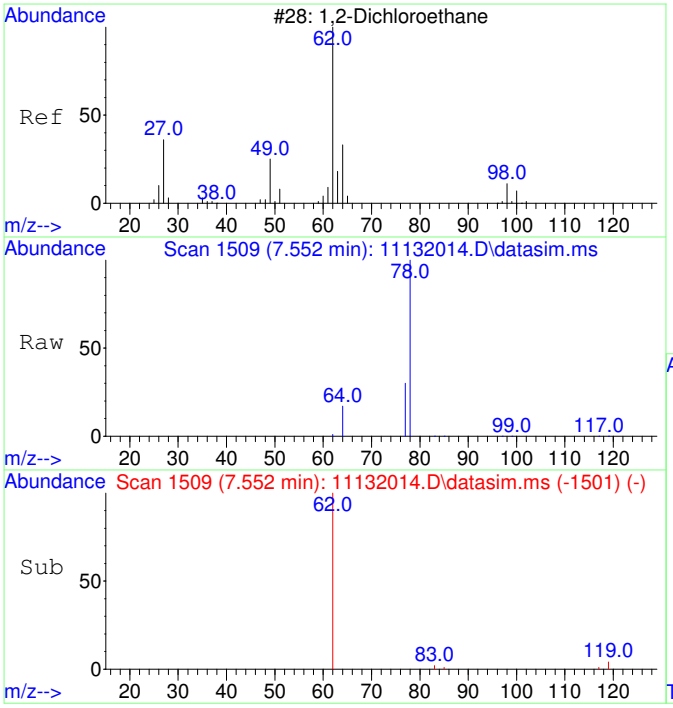


#9
Benzene
Concen: 56.53 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 78 Resp: 3550

Ion	Ratio	Lower	Upper
78	100		
77	105.0	0.0	53.2#

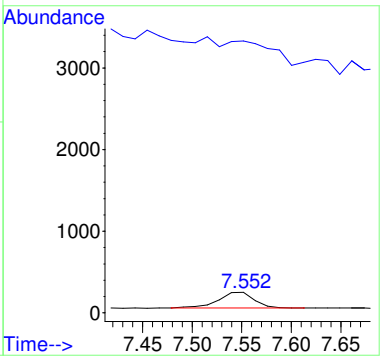


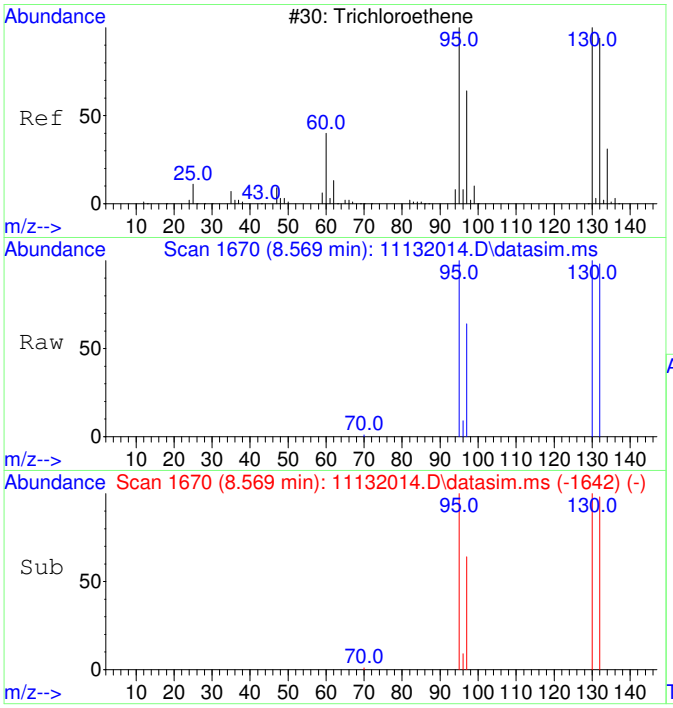


#10
1,2-Dichloroethane
Concen: 21.28 ug/L
RT: 7.552 min Scan# 1509
Delta R.T. 0.000 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 62 Resp: 477

Ion	Ratio	Lower	Upper
62	100		
64	190.6	2.3	62.3#

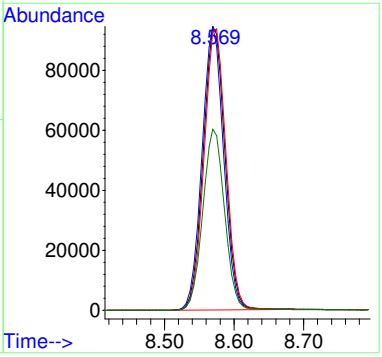


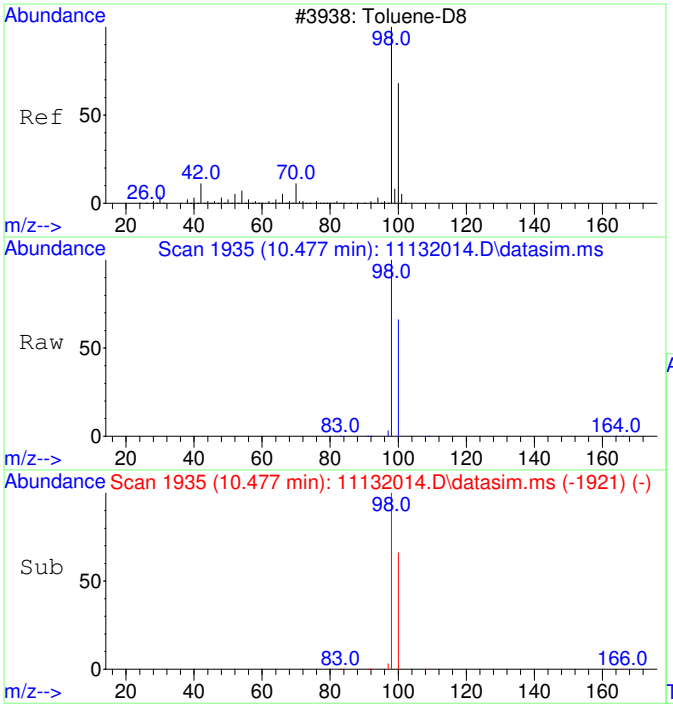


#11
Trichloroethene
Concen: 10831.21 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion:130 Resp: 204812

Ion	Ratio	Lower	Upper
130	100		
95	99.2	60.7	120.7
132	99.7	76.0	116.0
97	63.7	38.6	78.6

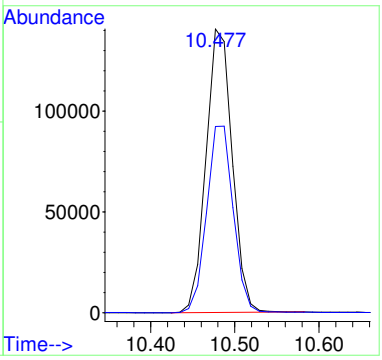


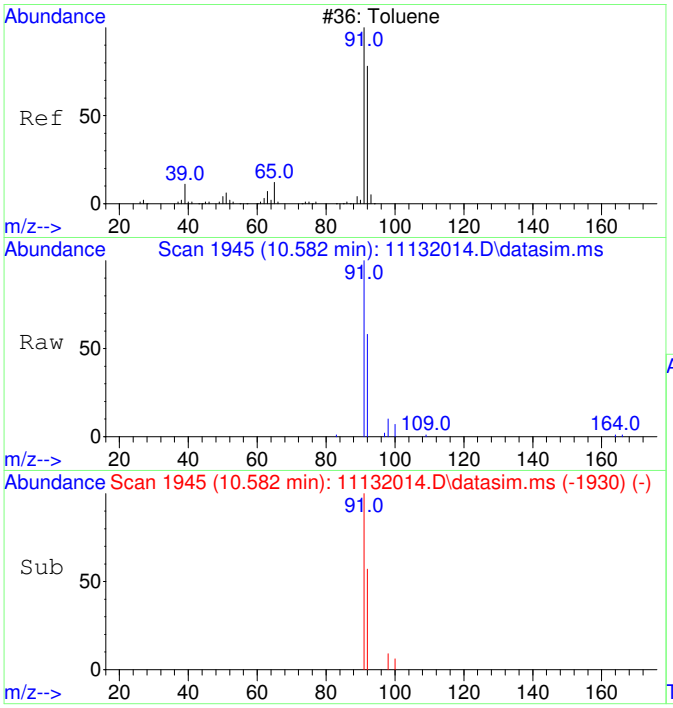


#12
Toluene-d8
Concen: 4208.32 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. 0.000 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 98 Resp: 304518

Ion	Ratio	Lower	Upper
98	100		
100	66.6	37.1	97.1

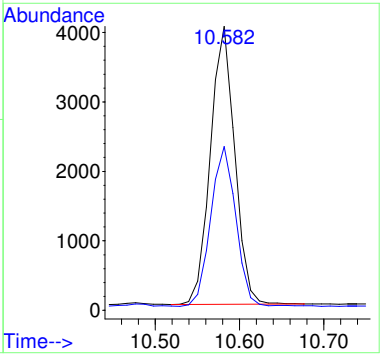


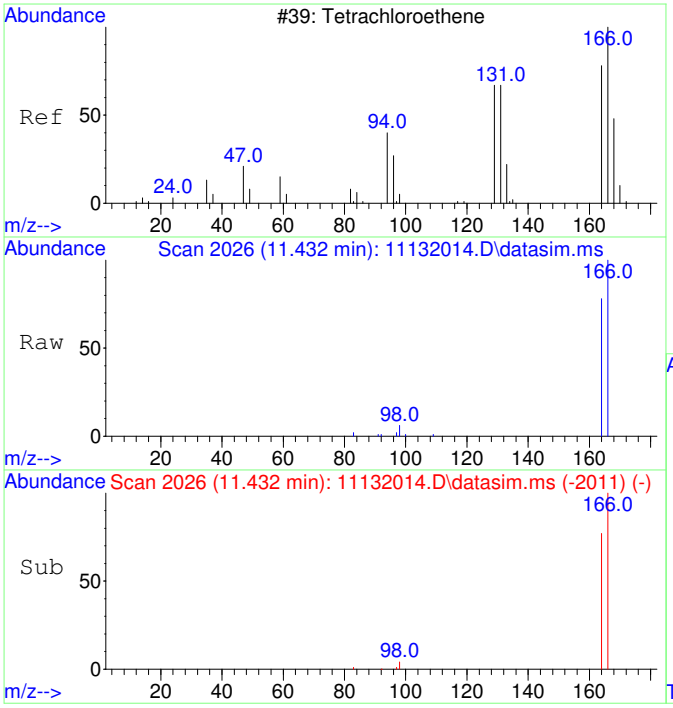


#13
Toluene
Concen: 87.18 ug/L
RT: 10.582 min Scan# 1945
Delta R.T. 0.011 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 91 Resp: 8043

Ion	Ratio	Lower	Upper
91	100		
92	59.0	29.9	89.9

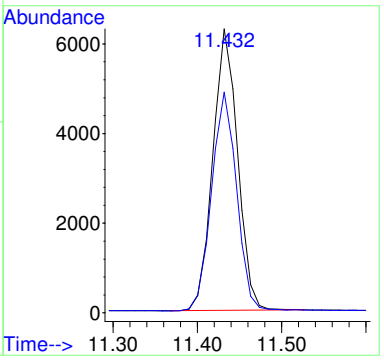


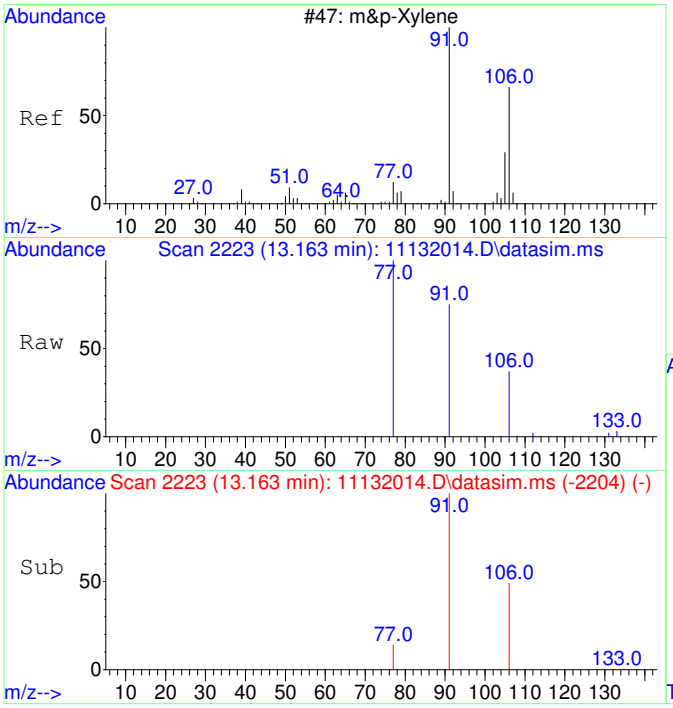


#15
Tetrachloroethene
Concen: 481.08 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.011 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion:166 Resp: 12844

Ion	Ratio	Lower	Upper
166	100		
164	78.2	47.8	107.8

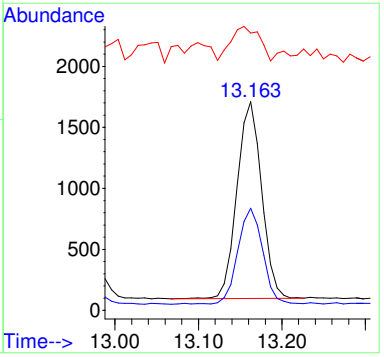


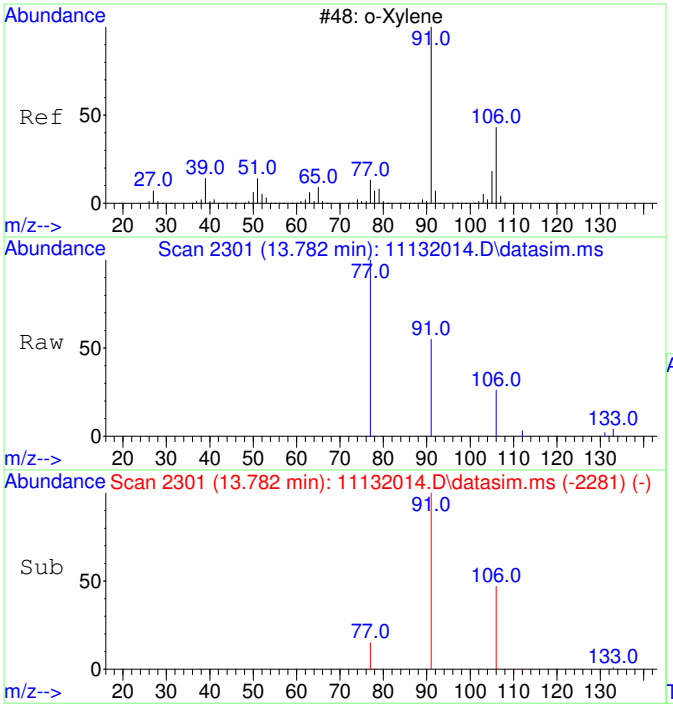


#19
m&p-Xylene
Concen: 37.82 ug/L
RT: 13.163 min Scan# 2223
Delta R.T. 0.000 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 91 Resp: 3319

Ion	Ratio	Lower	Upper
91	100		
106	48.2	22.2	82.2
77	21.6	0.0	42.4

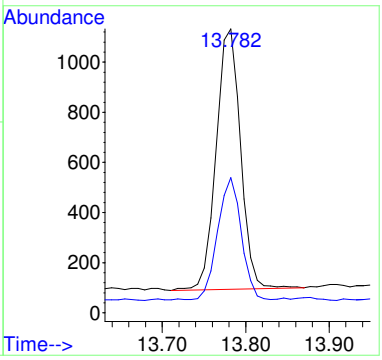


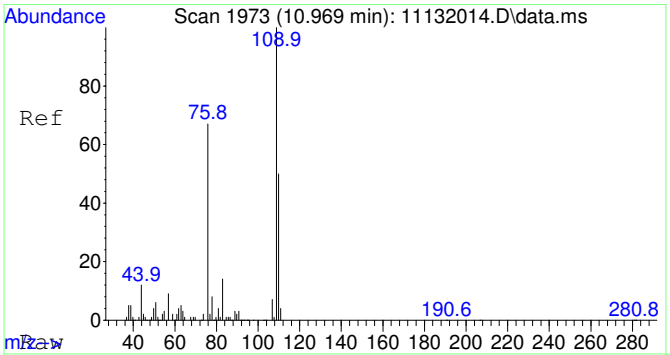


#20
o-Xylene
Concen: 22.49 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 91 Resp: 2109

Ion	Ratio	Lower	Upper
91	100		
106	45.3	19.2	79.2

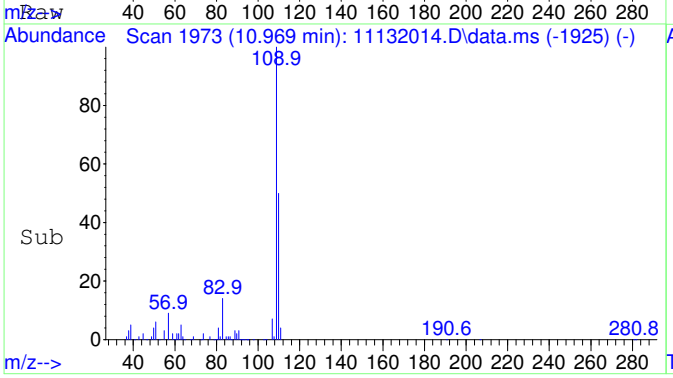


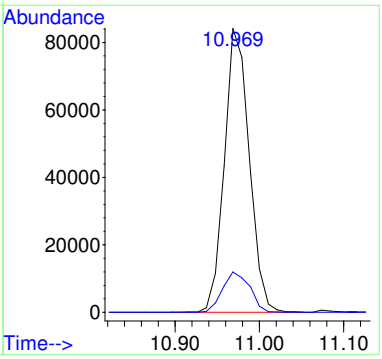


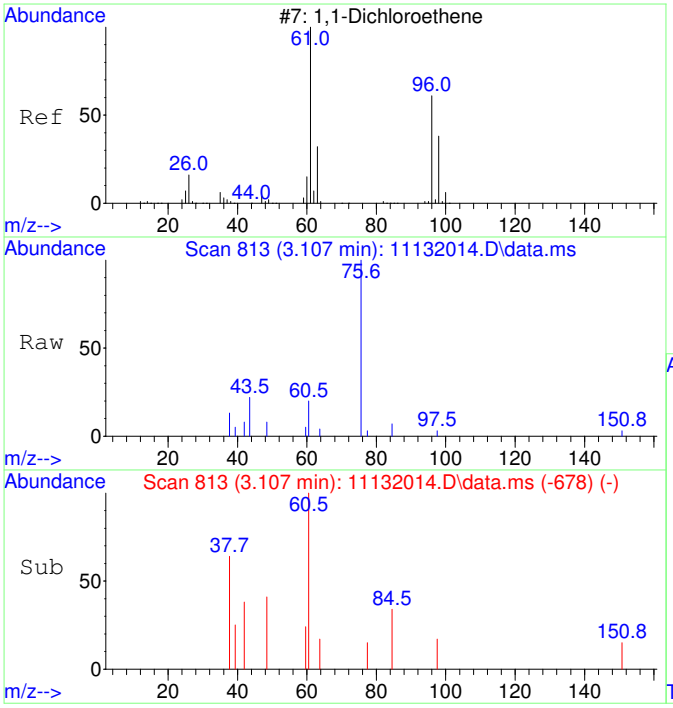
#25
2-Fluorotoluene SCAN
Concen: 4785.07 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. 0.000 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion:109 Resp: 172421

Ion	Ratio	Lower	Upper
109	100		
83	15.6	0.0	43.8



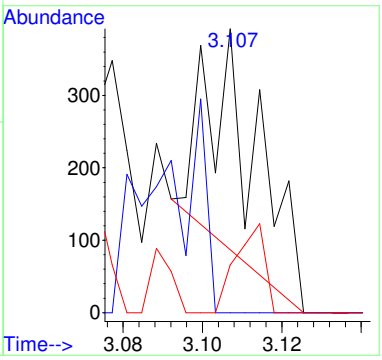


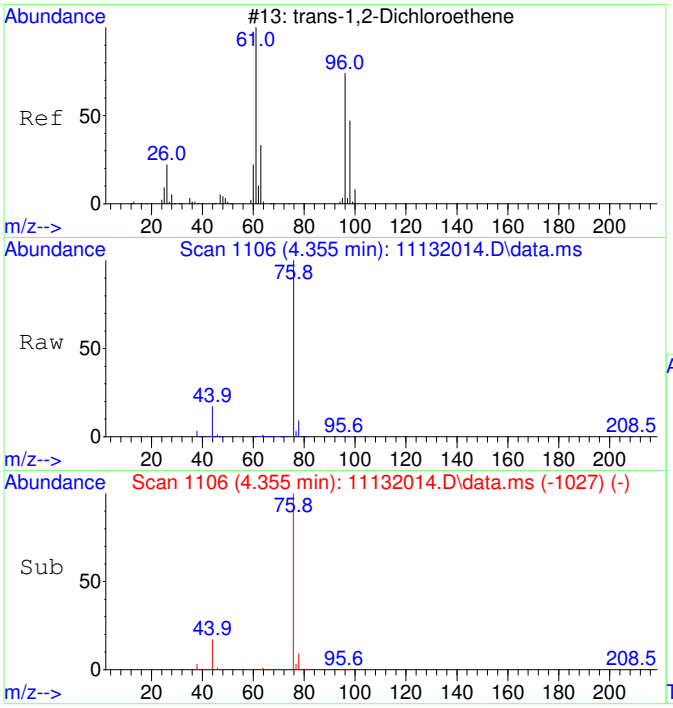


#26
1,1-Dichloroethene SCAN
Concen: 32.93 ug/L
RT: 3.107 min Scan# 813
Delta R.T. -0.000 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 61 Resp: 252

Ion	Ratio	Lower	Upper
61	100		
96	96.8	33.1	93.1#
98	25.0	11.2	71.2

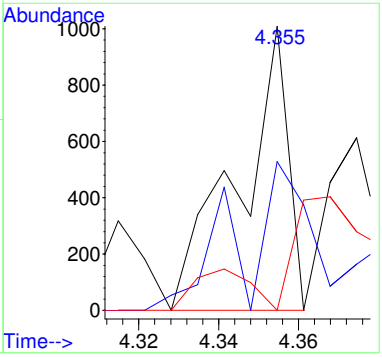


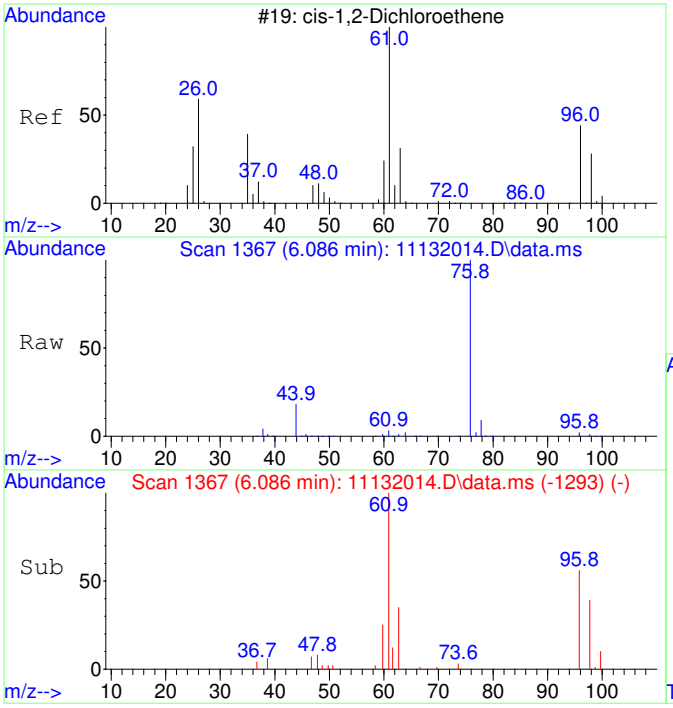


#27
trans-1,2-Dichloroethene SCAN
Concen: 91.66 ug/L
RT: 4.355 min Scan# 1106
Delta R.T. -0.046 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 61 Resp: 868

Ion	Ratio	Lower	Upper
61	100		
96	90.3	49.0	109.0
98	59.9	20.5	80.5

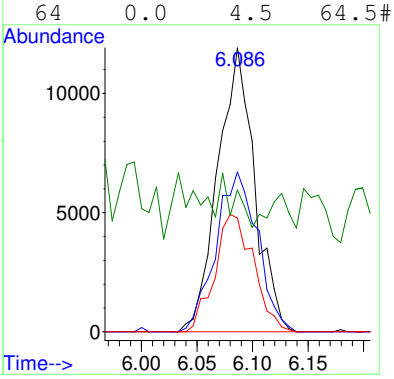


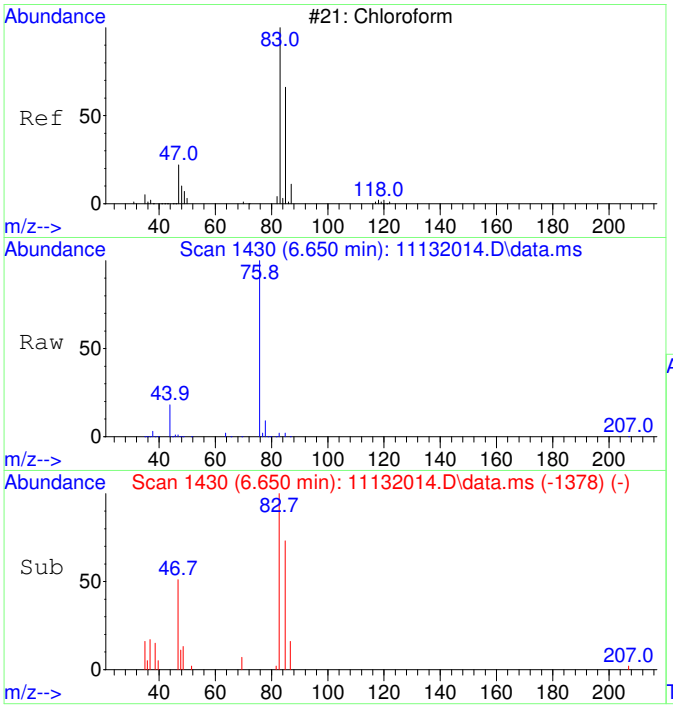


#29
cis-1,2-Dichloroethene SCAN
Concen: 2345.64 ug/L
RT: 6.086 min Scan# 1367
Delta R.T. -0.007 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 61 Resp: 27541

Ion	Ratio	Lower	Upper
61	100		
96	63.8	39.9	99.9
98	43.6	13.5	73.5
64	0.0	4.5	64.5#

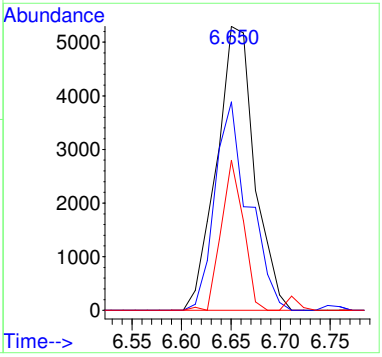


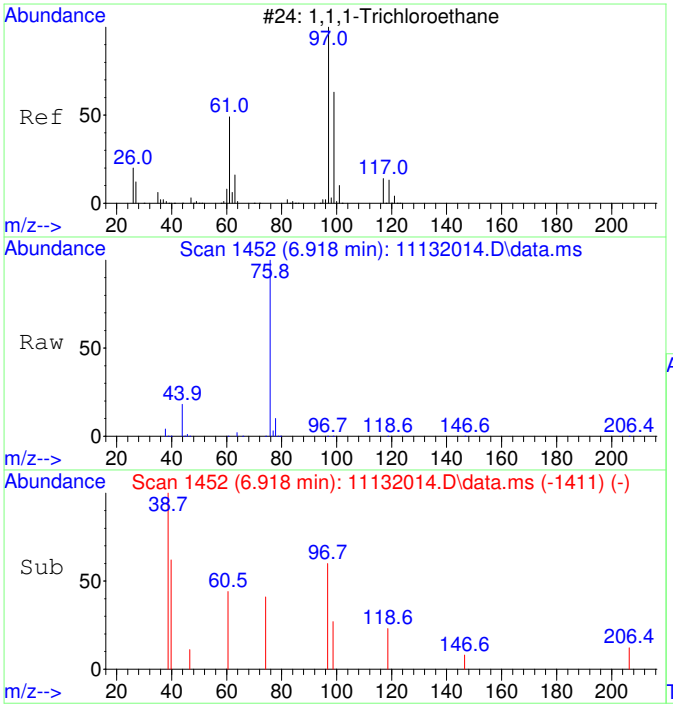


#30
Chloroform SCAN
Concen: 1107.49 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 83 Resp: 14104

Ion	Ratio	Lower	Upper
83	100		
85	65.3	34.6	94.6
47	31.1	0.0	53.4

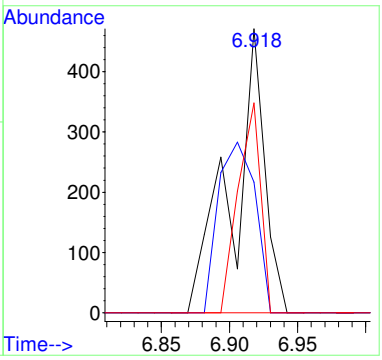


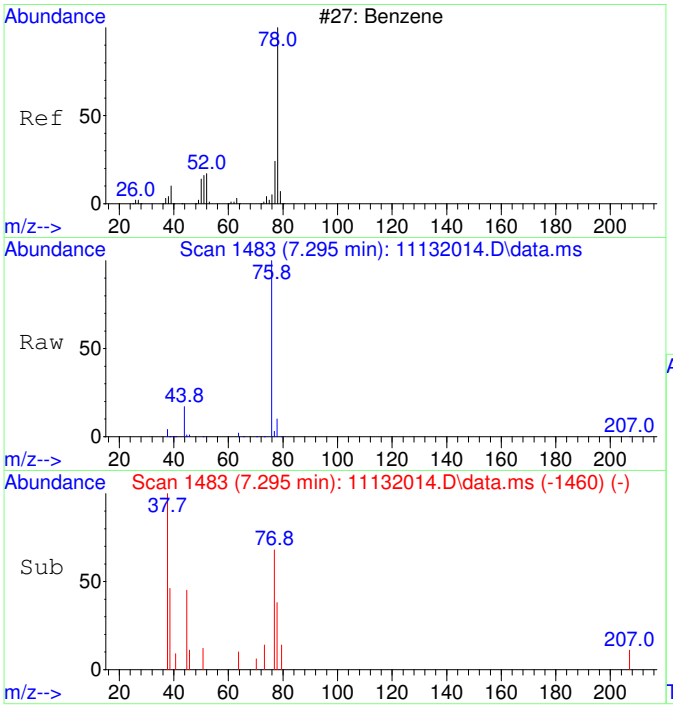


#31
1,1,1-Trichloroethane SCAN
Concen: 66.52 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. 0.000 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 97 Resp: 772

Ion	Ratio	Lower	Upper
97	100		
99	69.3	43.6	103.6
61	51.9	18.0	78.0

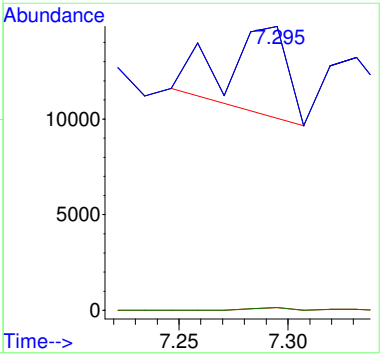


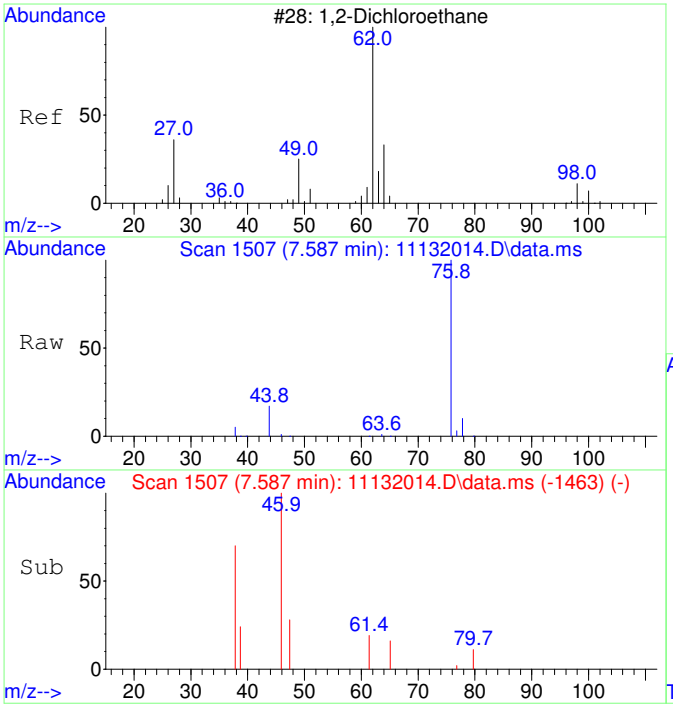


#33
Benzene SCAN
Concen: 253.80 ug/L
RT: 7.295 min Scan# 1483
Delta R.T. -0.219 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 78 Resp: 8110

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	3.0	0.0	47.9
51	3.0	0.0	44.1

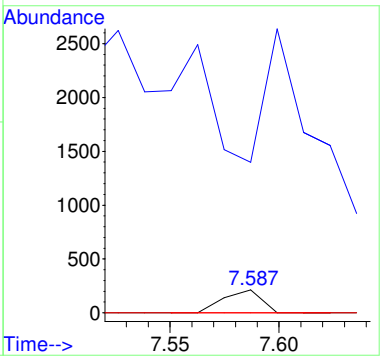


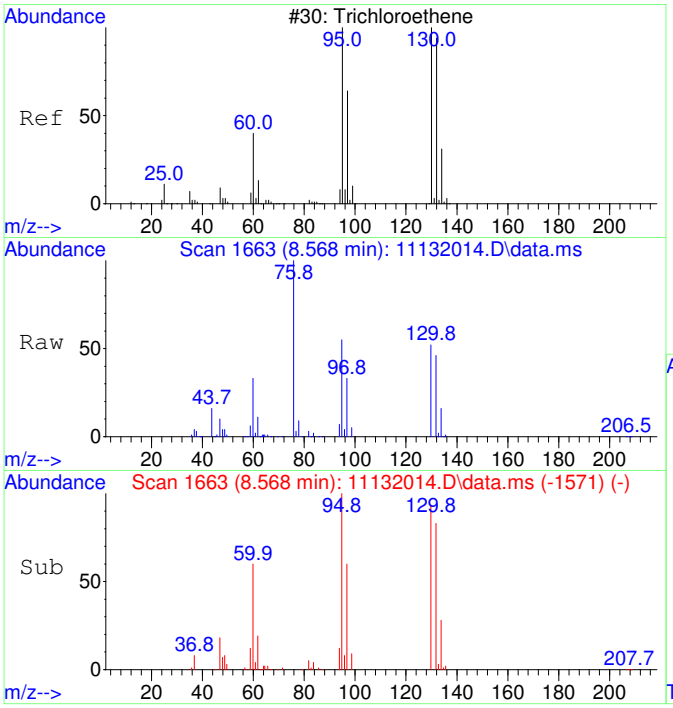


#34
1,2-Dichloroethane SCAN
Concen: 21.87 ug/L
RT: 7.587 min Scan# 1507
Delta R.T. 0.037 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 62 Resp: 258

Ion	Ratio	Lower	Upper
62	100		
64	607.8	5.2	65.2#
49	0.0	3.9	63.9#

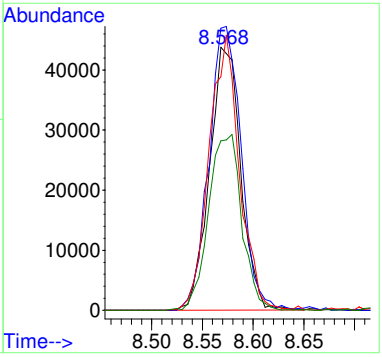


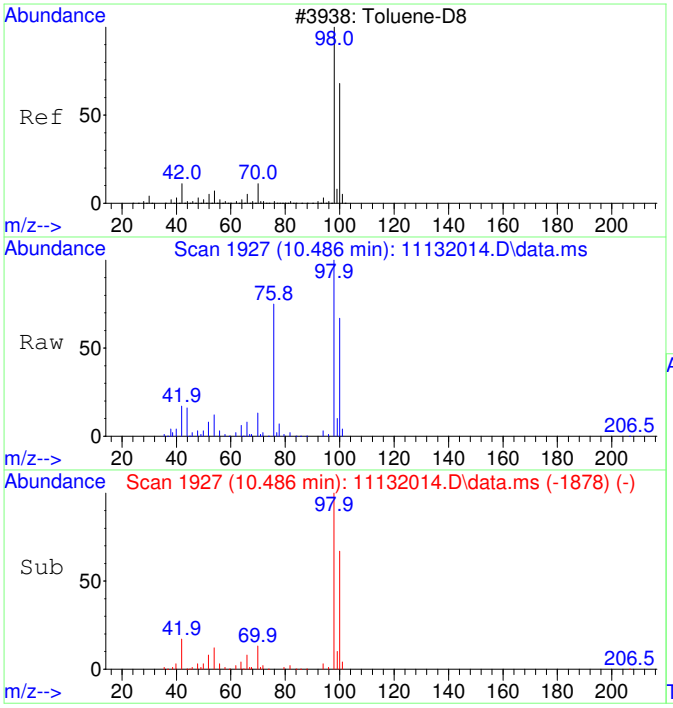


#35
Trichloroethene SCAN
Concen: 10687.50 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. 0.000 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion:130 Resp: 93848

Ion	Ratio	Lower	Upper
130	100		
95	110.7	60.5	120.5
132	101.0	59.6	119.6
97	71.1	28.2	88.2

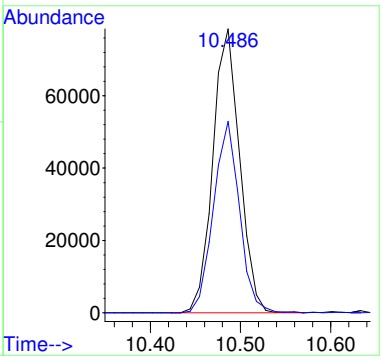


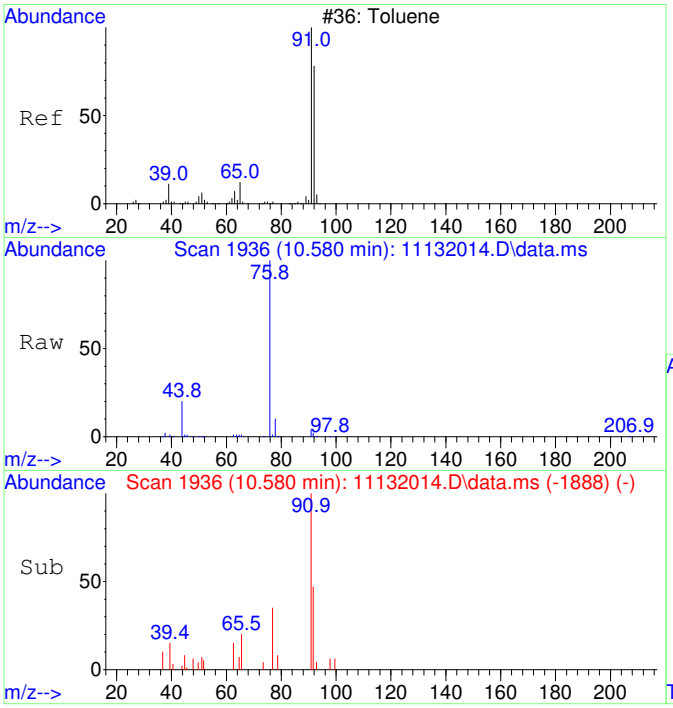


#36
Toluene-d8 SCAN
Concen: 4611.87 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.011 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 98 Resp: 162519

Ion	Ratio	Lower	Upper
98	100		
100	65.7	40.0	100.0

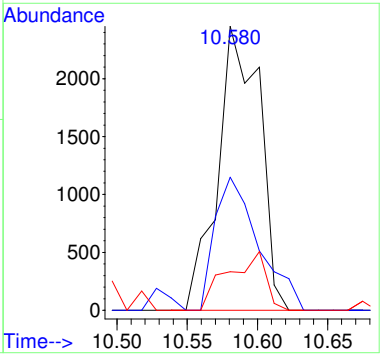


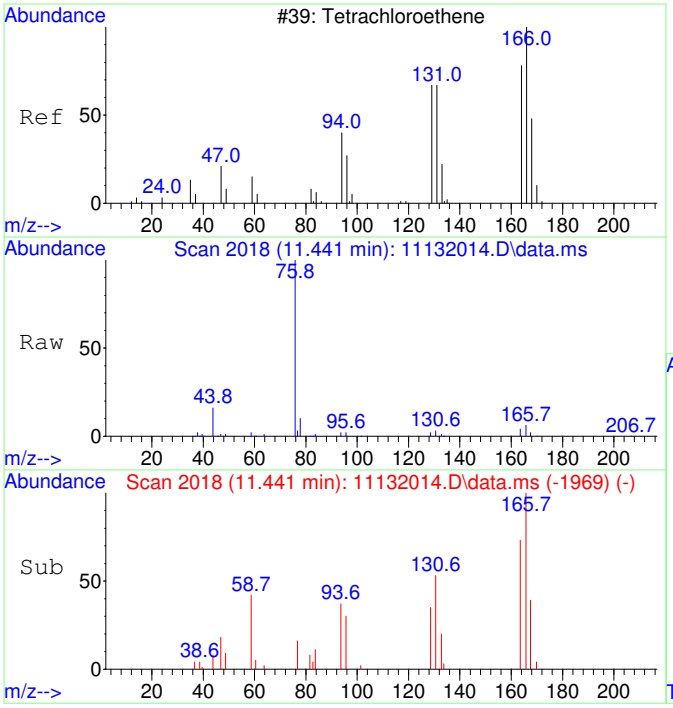


#37
Toluene SCAN
Concen: 113.54 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 91 Resp: 5124

Ion	Ratio	Lower	Upper
91	100		
92	49.1	28.3	88.3
65	0.0	0.0	41.0

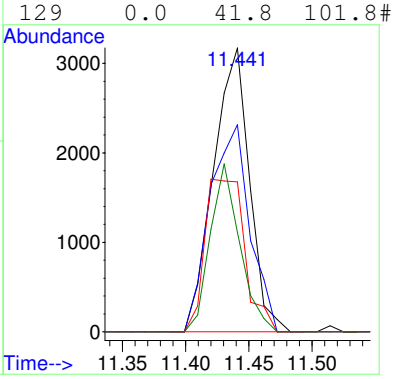


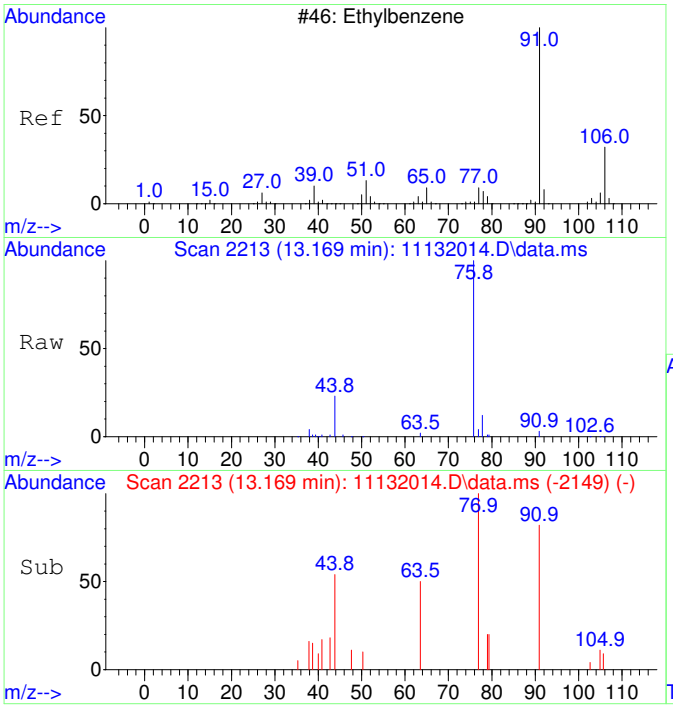


#39
Tetrachloroethene SCAN
Concen: 580.24 ug/L
RT: 11.441 min Scan# 2018
Delta R.T. 0.011 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion:166 Resp: 6291

Ion	Ratio	Lower	Upper
166	100		
164	81.1	50.9	110.9
131	0.0	38.7	98.7#
129	0.0	41.8	101.8#

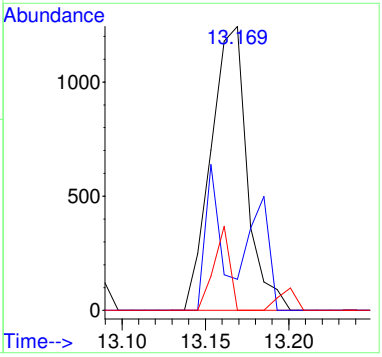


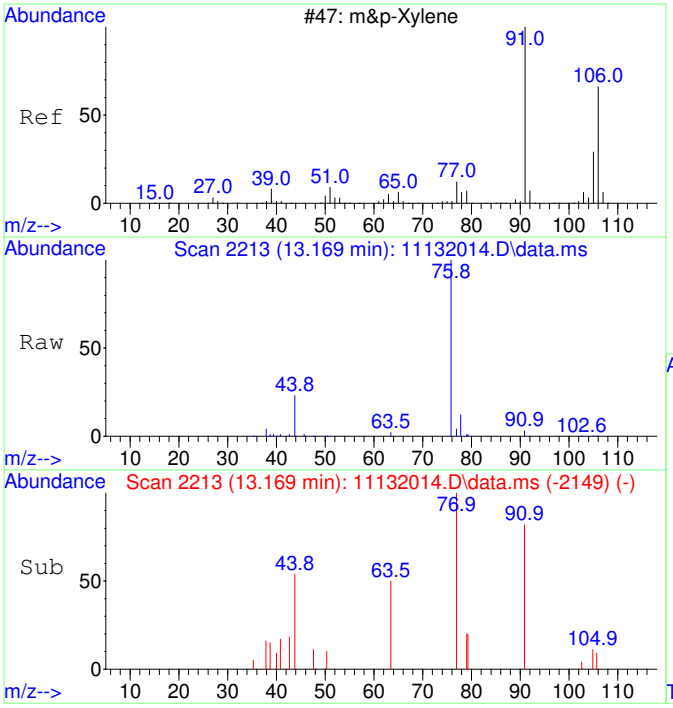


#42
Ethylbenzene SCAN
Concen: 22.91 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 91 Resp: 1884

Ion	Ratio	Lower	Upper
91	100		
106	18.4	23.1	83.1#
51	13.1	0.0	40.1

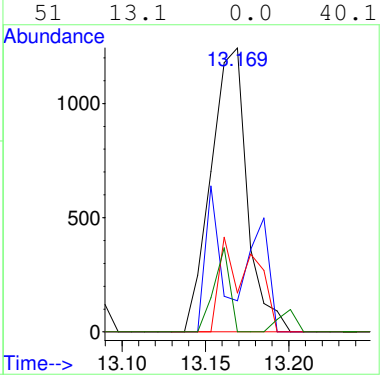


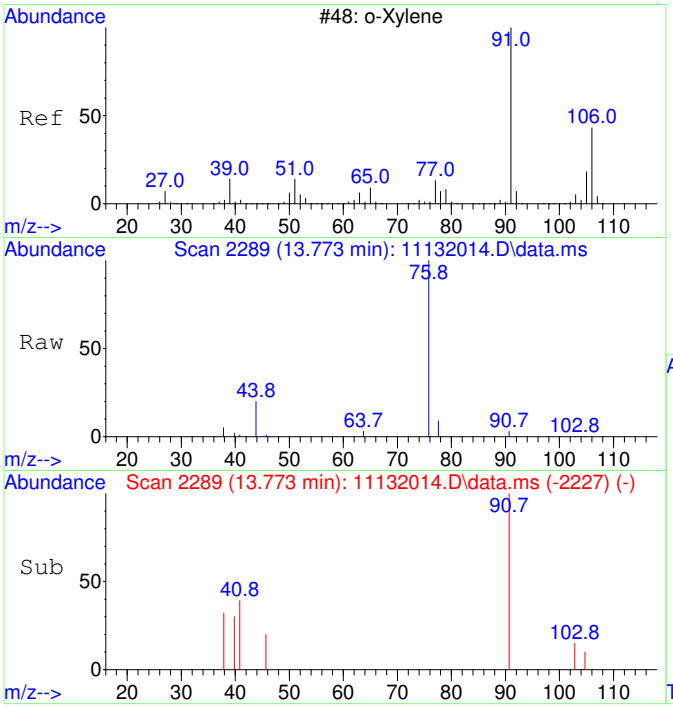


#43
m&p-Xylene SCAN
Concen: 22.91 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 91 Resp: 1884

Ion	Ratio	Lower	Upper
91	100		
106	18.4	23.1	83.1#
105	30.3	0.0	54.7
51	13.1	0.0	40.1

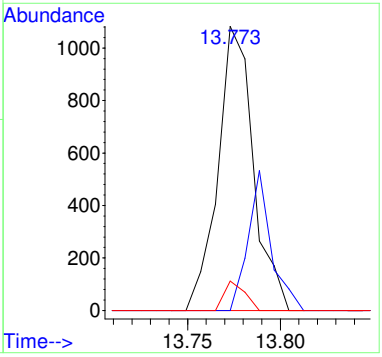




#44
o-Xylene SCAN
Concen: 32.79 ug/L
RT: 13.773 min Scan# 2289
Delta R.T. -0.008 min
Lab File: 11132014.D
Acq: 13 Nov 2020 15:53

Tgt Ion: 91 Resp: 1443

Ion	Ratio	Lower	Upper
91	100		
106	32.0	18.0	78.0
105	6.0	0.0	56.6



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 20316A
Client: California Site Cleanup Section 3
Project: MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID: AG5975CV
Calibration: 2008017
Sequence: S20K052

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
B20K043-MRL1	1,1-Dichloroethene	0.131	0.109	83	ug/m³ Air	50 - 150
	trans-1,2-Dichloroethene	0.160	0.140	87	ug/m³ Air	50 - 150
	1,1-Dichloroethane	0.157	0.139	88	ug/m³ Air	50 - 150
	cis-1,2-Dichloroethene	0.160	0.141	88	ug/m³ Air	50 - 150
	Chloroform	0.132	0.141	106	ug/m³ Air	50 - 150
	Trichloroethene	0.144	0.130	91	ug/m³ Air	50 - 150
	Tetrachloroethene	0.168	0.148	88	ug/m³ Air	50 - 150
	Toluene-d8	992	878	89	ug/m³ Air	86 - 118

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122008.D
Acq On : 12 Nov 2020 11:14
InstName : AG5975C
Operator : TD
Sample : B20K043-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 12 11:33:05 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

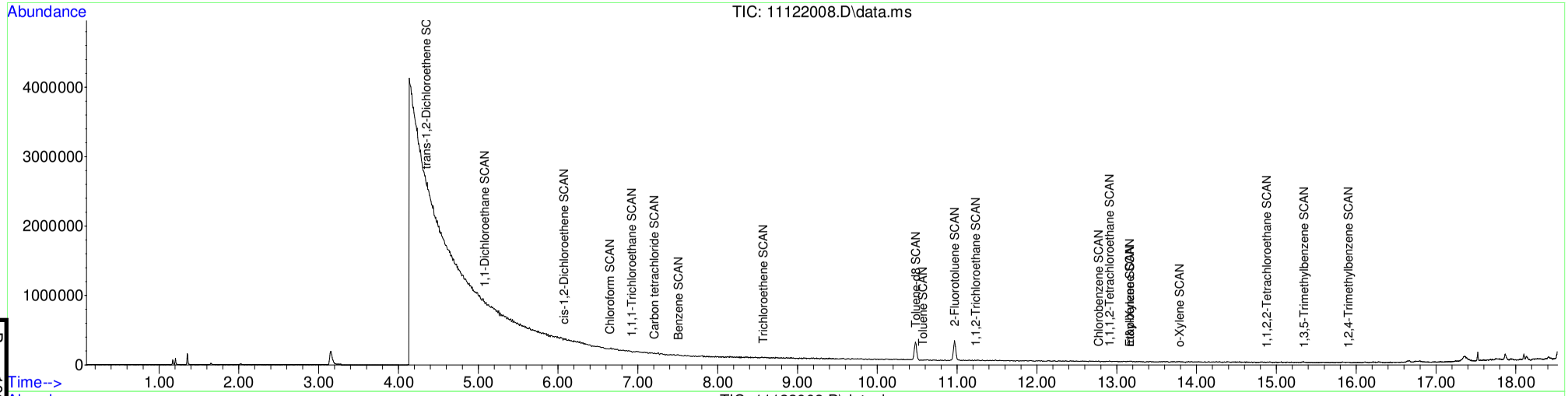
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	423133	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	366672	4426.65	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.53%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	1128	66.76	ug/L #	42
3] trans-1,2-Dichloroethene	4.362	61	852	43.64	ug/L	75
4] 1,1-Dichloroethane	5.079	63	1075	44.24	ug/L	74
5] cis-1,2-Dichloroethene	6.081	61	1129	44.01	ug/L	100
6] Chloroform	6.652	83	1395	53.13	ug/L	98
7] 1,1,1-Trichloroethane	6.907	97	1247	43.73	ug/L	99
8] Carbon tetrachloride	7.175	117	1150	42.85	ug/L	97
9] Benzene	7.503	78	6781	94.32	ug/L	46
10] 1,2-Dichloroethane	7.539	62	1132	44.11	ug/L #	1
11] Trichloroethene	8.569	130	980	45.27	ug/L	93
13] Toluene	10.571	91	5597	53.00	ug/L	98
14] 1,1,2-Trichloroethane	11.222	97	1004	43.63	ug/L	93
15] Tetrachloroethene	11.432	166	1349	44.14	ug/L	99
16] Chlorobenzene	12.765	112	4650	61.49	ug/L	83
17] 1,1,1,2-Tetrachloroethane	12.916	131	1264	46.65	ug/L	95
18] Ethylbenzene	12.972	91	6801	52.91	ug/L	95
19] m&p-Xylene	13.162	91	10416	103.68	ug/L	95
20] o-Xylene	13.782	91	4912	45.76	ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.877	83	2142	45.03	ug/L	99
22] 1,3,5-Trimethylbenzene	15.345	105	5787	50.66	ug/L	93
23] 1,2,4-Trimethylbenzene	15.901	105	6128	51.64	ug/L	92
25) 2-Fluorotoluene SCAN	10.969	109	220361	5342.39	ug/L	97
27) trans-1,2-Dichloroethe...	4.348	61	603	55.63	ug/L #	35
28) 1,1-Dichloroethane SCAN	5.078	63	572	45.60	ug/L #	72
29) cis-1,2-Dichloroethene...	6.073	61	725	53.94	ug/L #	32
30) Chloroform SCAN	6.650	83	577	39.58	ug/L #	1
31) 1,1,1-Trichloroethane ...	6.918	97	582	43.81	ug/L #	55
32) Carbon tetrachloride SCAN	7.198	117	433	31.25	ug/L #	23
33) Benzene SCAN	7.502	78	12158	332.39	ug/L	92
35) Trichloroethene SCAN	8.568	130	678	67.45	ug/L #	32
36) Toluene-d8 SCAN	10.475	98	191185	4739.46	ug/L	99
37) Toluene SCAN	10.570	91	3110	60.20	ug/L	93
38) 1,1,2-Trichloroethane ...	11.231	97	595	51.31	ug/L #	49
40) Chlorobenzene SCAN	12.772	112	2513	71.19	ug/L #	86
41) 1,1,1,2-Tetrachloroeth...	12.907	131	401	30.70	ug/L #	54
42) Ethylbenzene SCAN	13.161	91	6775	71.99	ug/L	87
43) m&p-Xylene SCAN	13.161	91	6775	71.99	ug/L	85
44) o-Xylene SCAN	13.781	91	3828	75.99	ug/L	84
45) 1,1,2,2-Tetrachloroeth...	14.875	83	1201	48.89	ug/L #	63
46) 1,3,5-Trimethylbenzene...	15.343	105	3084	58.09	ug/L	79
47) 1,2,4-Trimethylbenzene...	15.904	105	3497	64.37	ug/L #	71

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122008.D
Acq On : 12 Nov 2020 11:14
InstName : AG5975C
Operator : TD
Sample : B20K043-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 12 11:33:05 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



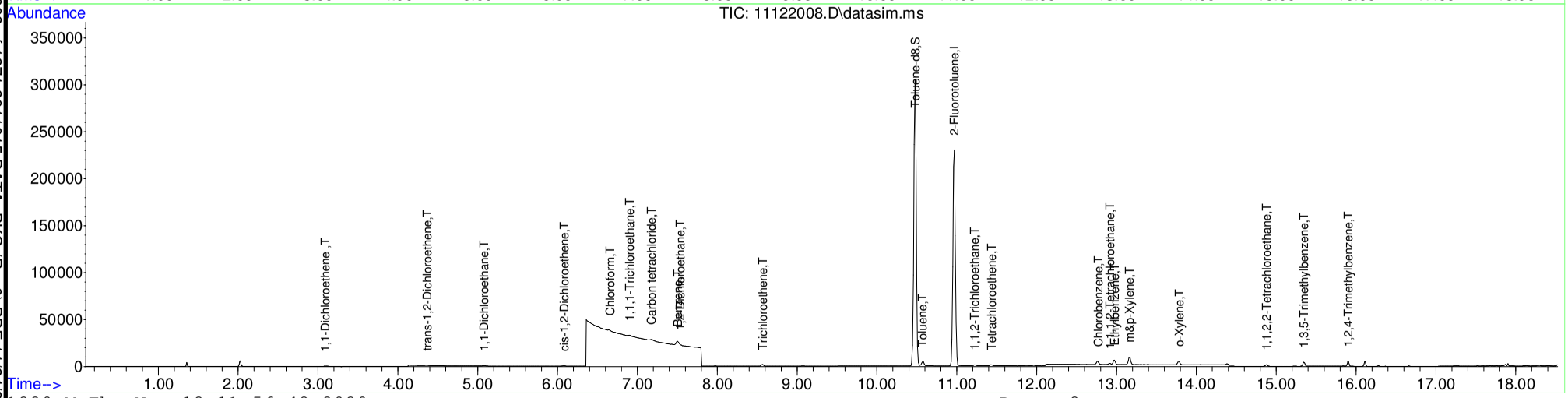
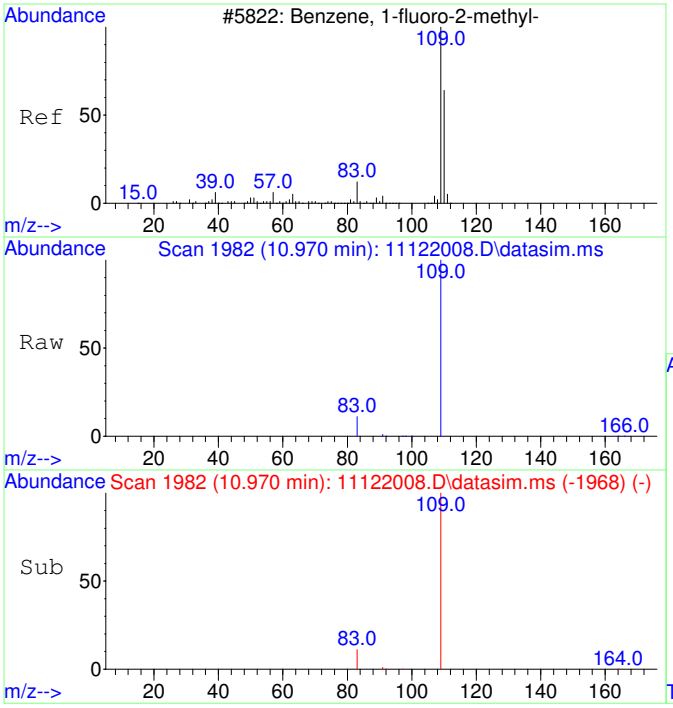


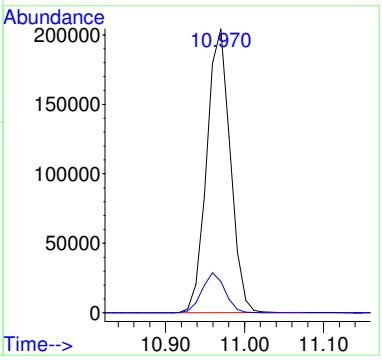
Table of Contents

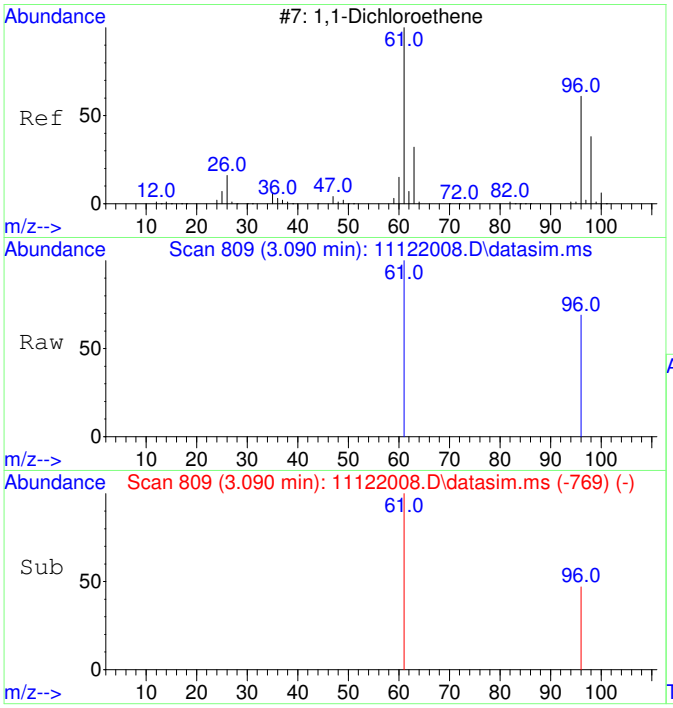


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:109 Resp: 423133

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

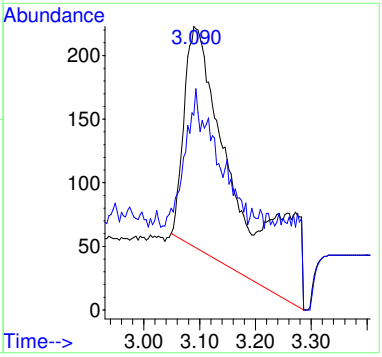




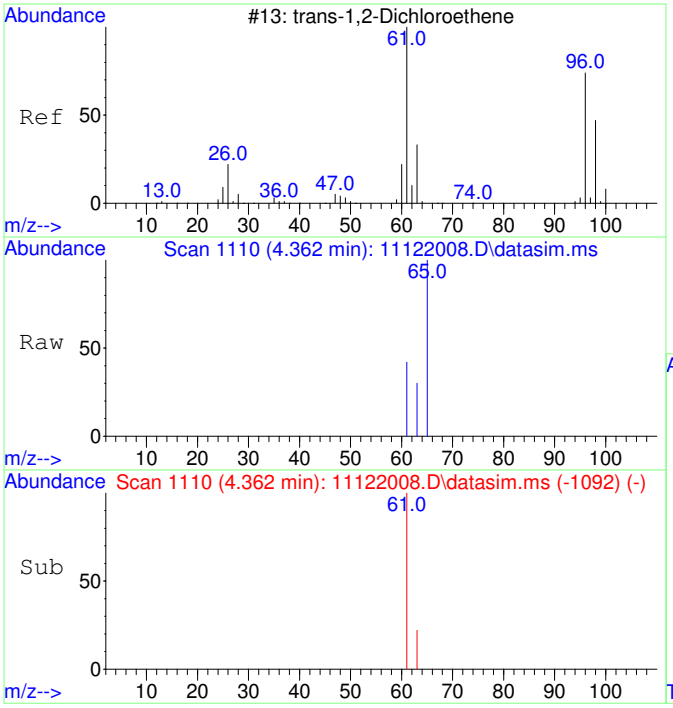
#2
1,1-Dichloroethene
Concen: 66.76 ug/L
RT: 3.090 min Scan# 809
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 1128

Ion	Ratio	Lower	Upper
61	100		
96	20.7	37.2	97.2#



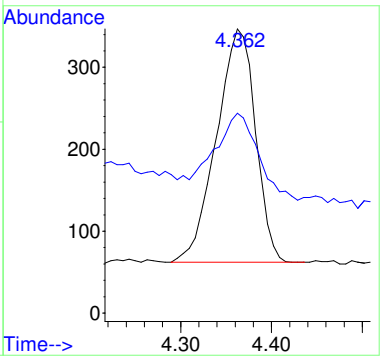
Before MI:
IMPROPER
BASELINE

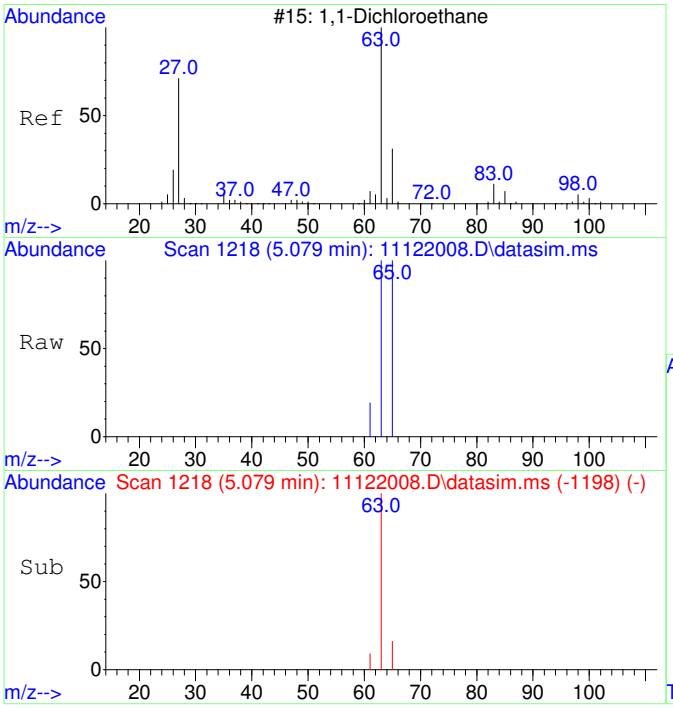


#3
trans-1,2-Dichloroethene
Concen: 43.64 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. -0.033 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 852

Ion	Ratio	Lower	Upper
61	100		
63	46.4	2.4	62.4

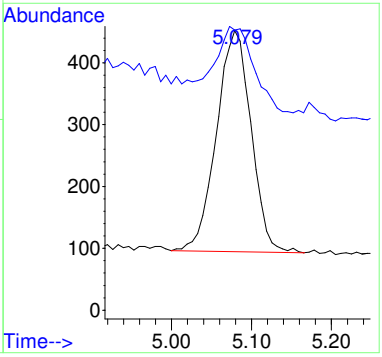


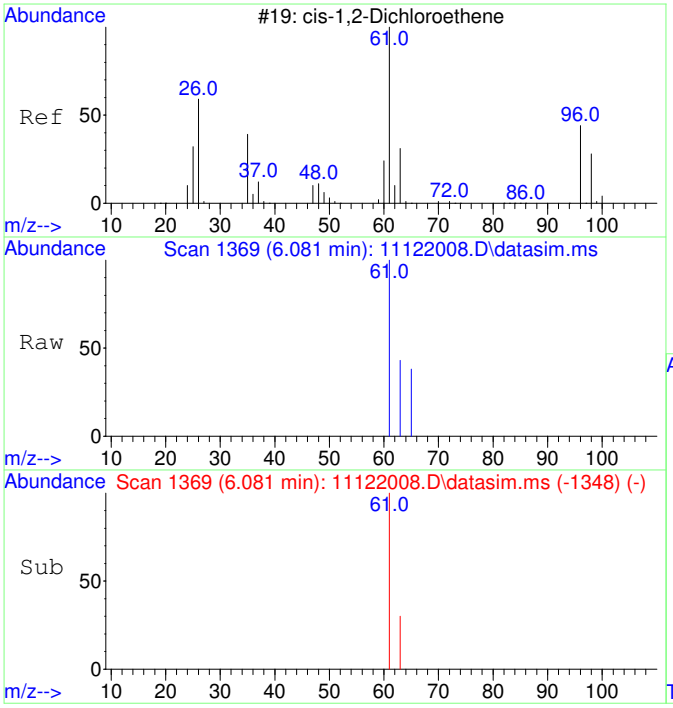


#4
1,1-Dichloroethane
Concen: 44.24 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 63 Resp: 1075

Ion	Ratio	Lower	Upper
63	100		
65	46.4	1.8	61.8

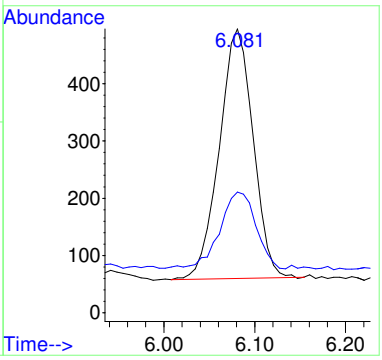


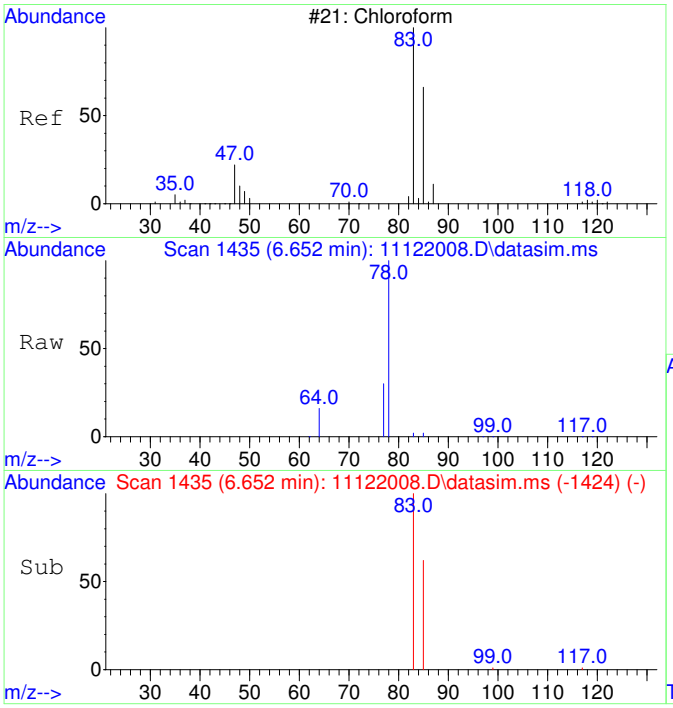


#5
cis-1,2-Dichloroethene
Concen: 44.01 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 1129

Ion	Ratio	Lower	Upper
61	100		
63	32.4	2.5	62.5

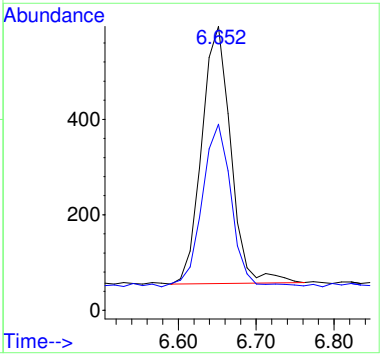


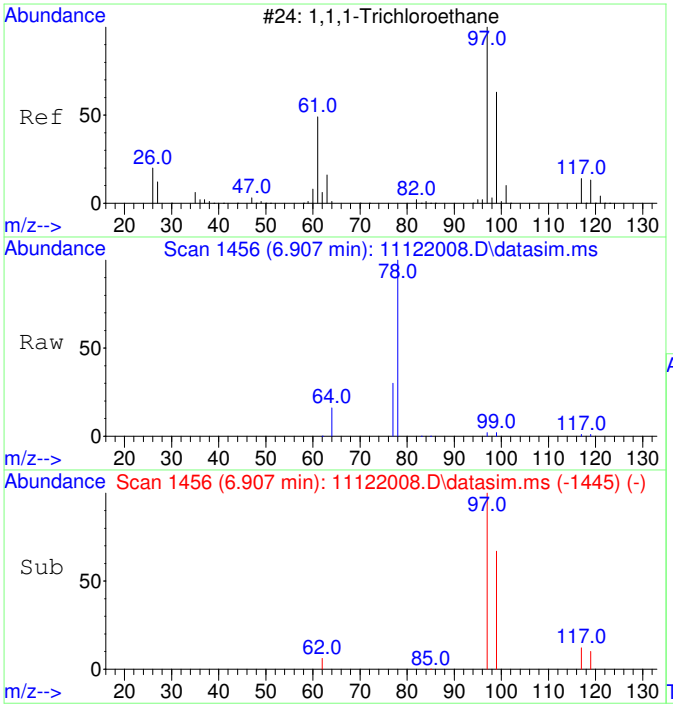


#6
Chloroform
Concen: 53.13 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 1395

Ion	Ratio	Lower	Upper
83	100		
85	63.2	35.1	95.1

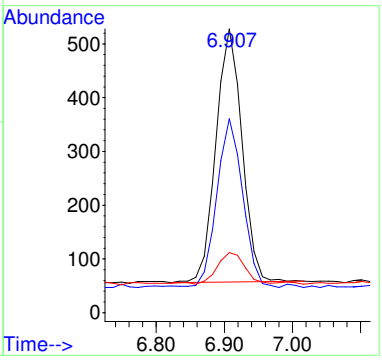


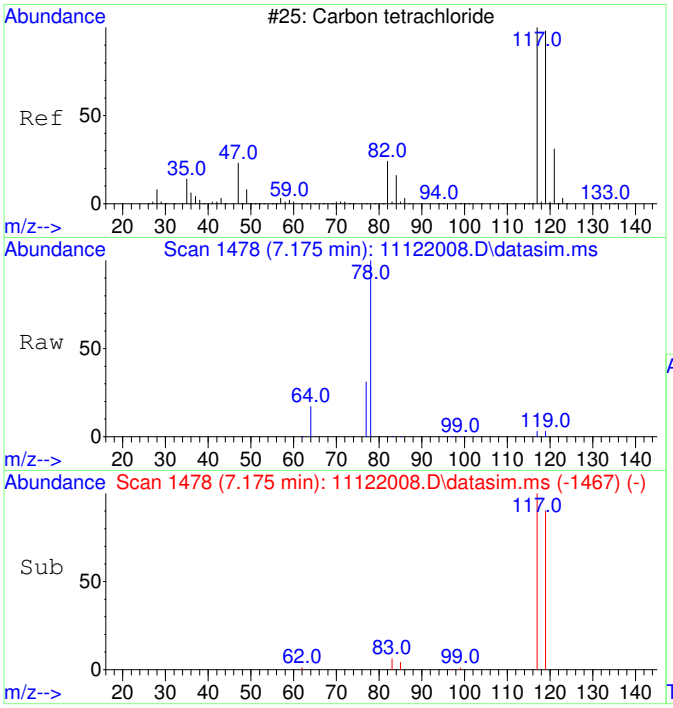


#7
1,1,1-Trichloroethane
Concen: 43.73 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 1247

Ion	Ratio	Lower	Upper
97	100		
99	65.3	34.6	94.6
117	13.2	0.0	43.2

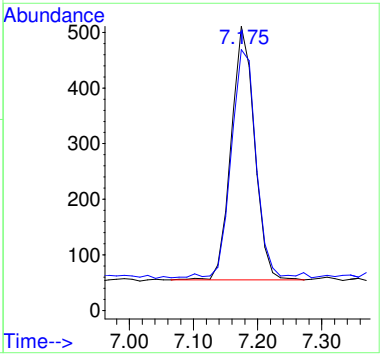


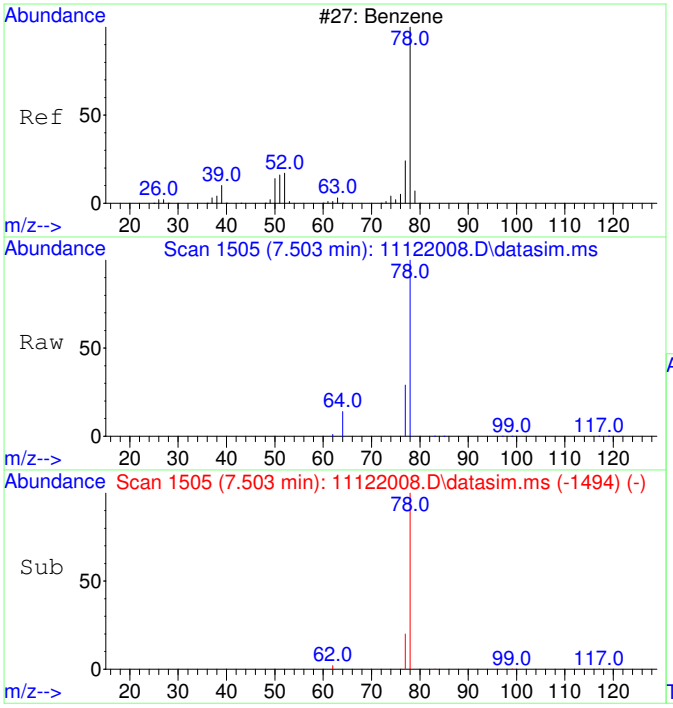


#8
Carbon tetrachloride
Concen: 42.85 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:117 Resp: 1150

Ion	Ratio	Lower	Upper
117	100		
119	93.6	66.4	126.4

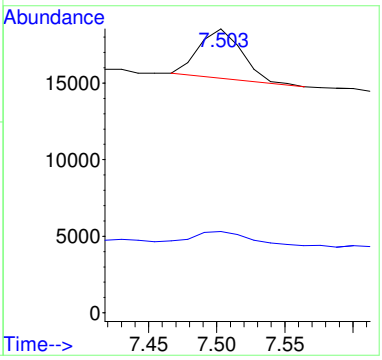


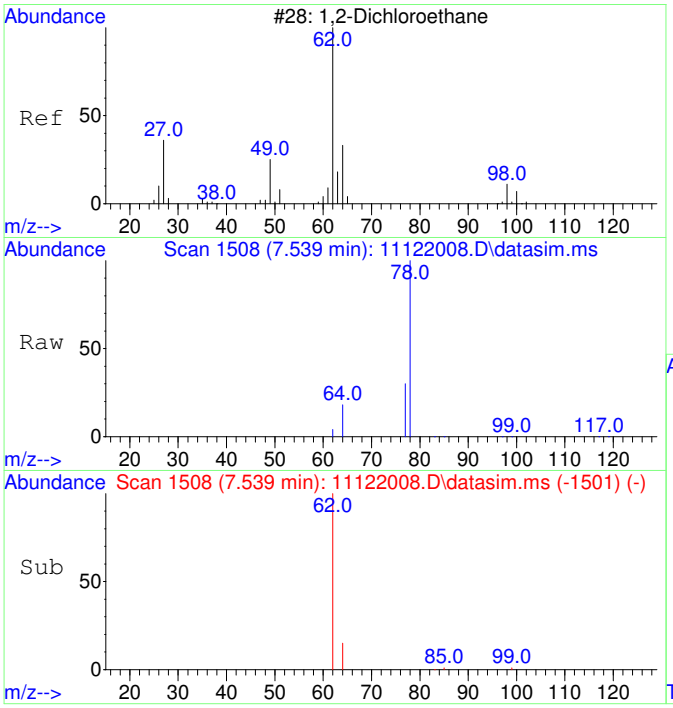


#9
Benzene
Concen: 94.32 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 78 Resp: 6781

Ion	Ratio	Lower	Upper
78	100		
77	49.5	0.0	53.2

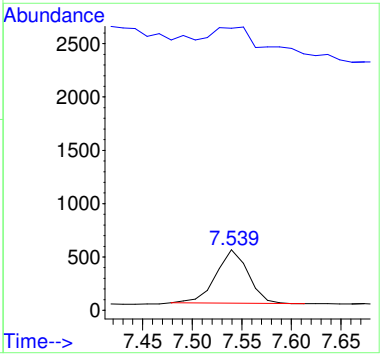


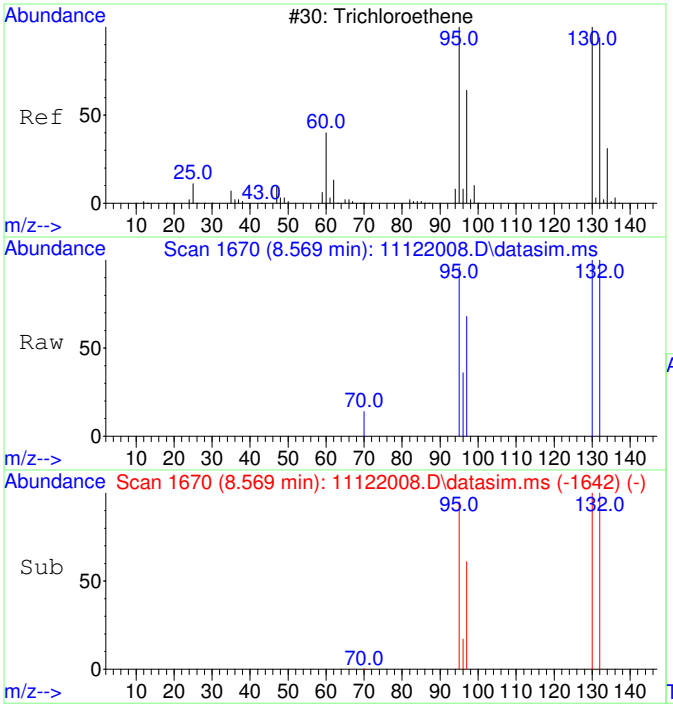


#10
1,2-Dichloroethane
Concen: 44.11 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 62 Resp: 1132

Ion	Ratio	Lower	Upper
62	100		
64	110.9	2.3	62.3#

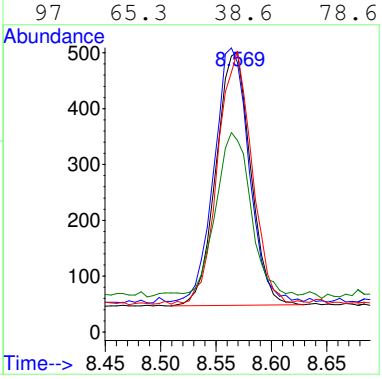


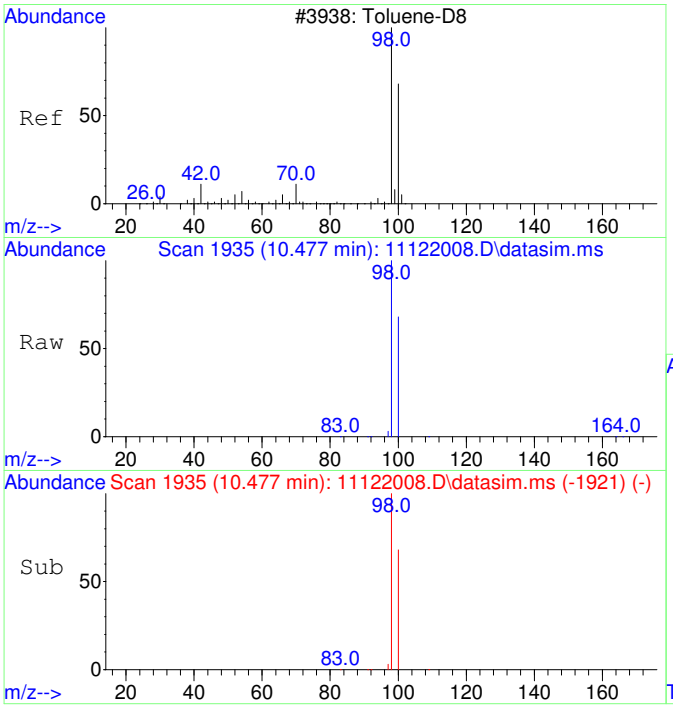


#11
Trichloroethene
Concen: 45.27 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:130 Resp: 980

Ion	Ratio	Lower	Upper
130	100		
95	100.6	60.7	120.7
132	98.1	76.0	116.0
97	65.3	38.6	78.6

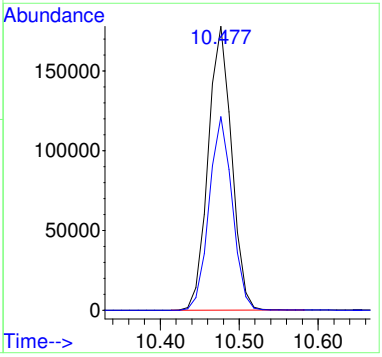


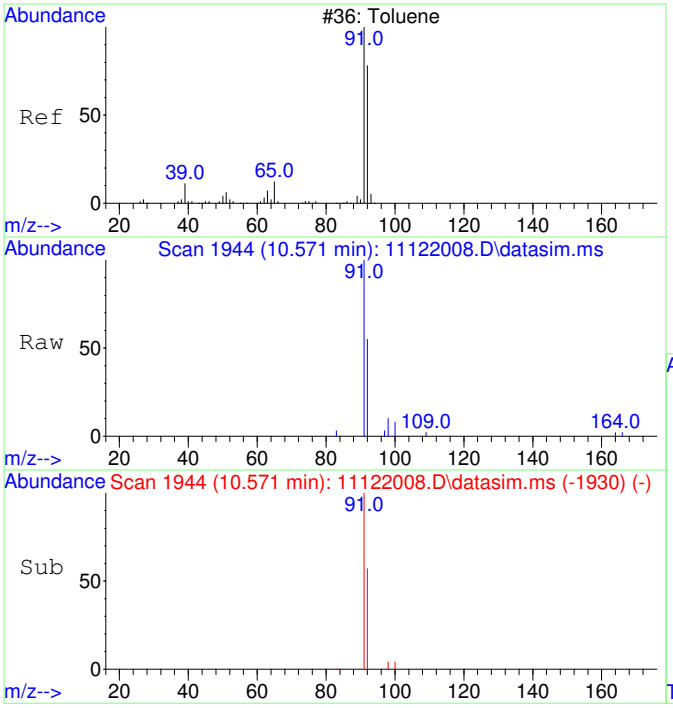


#12
Toluene-d8
Concen: 4426.65 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 98 Resp: 366672

Ion	Ratio	Lower	Upper
98	100		
100	67.0	37.1	97.1

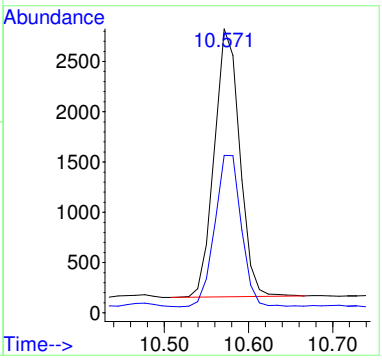


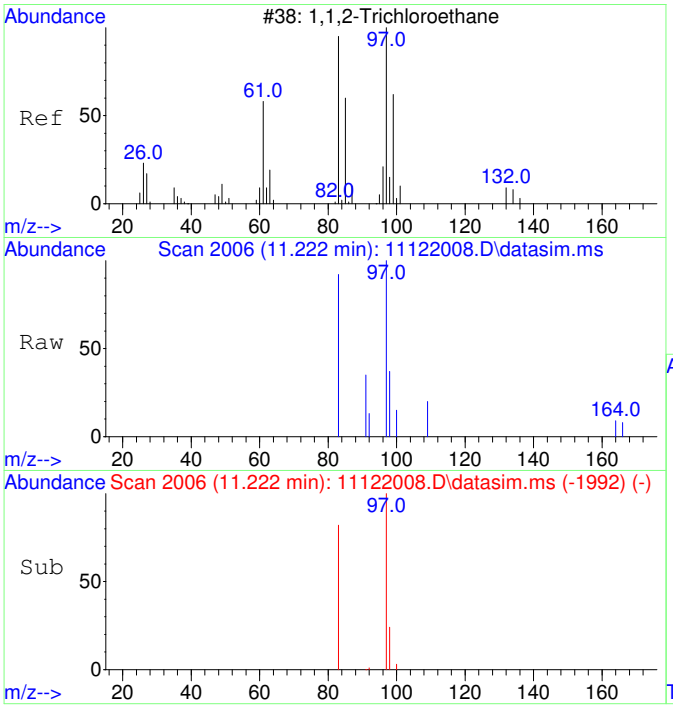


#13
Toluene
Concen: 53.00 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 5597

Ion	Ratio	Lower	Upper
91	100		
92	58.7	29.9	89.9

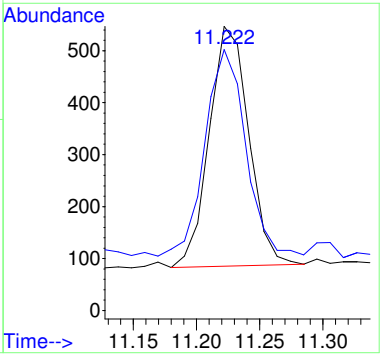


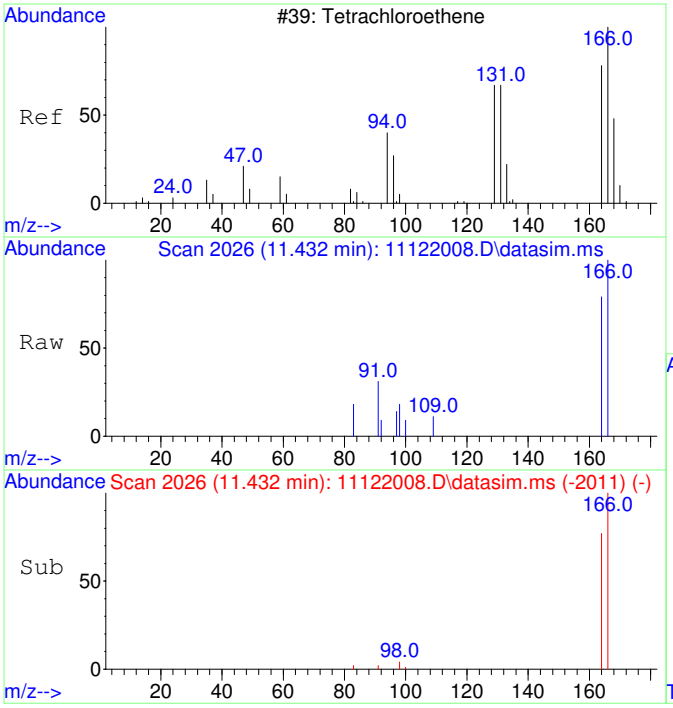


#14
1,1,2-Trichloroethane
Concen: 43.63 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 1004

Ion	Ratio	Lower	Upper
97	100		
83	87.6	51.2	111.2

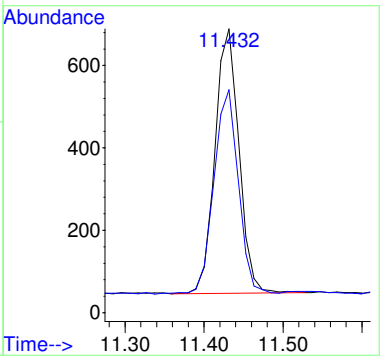


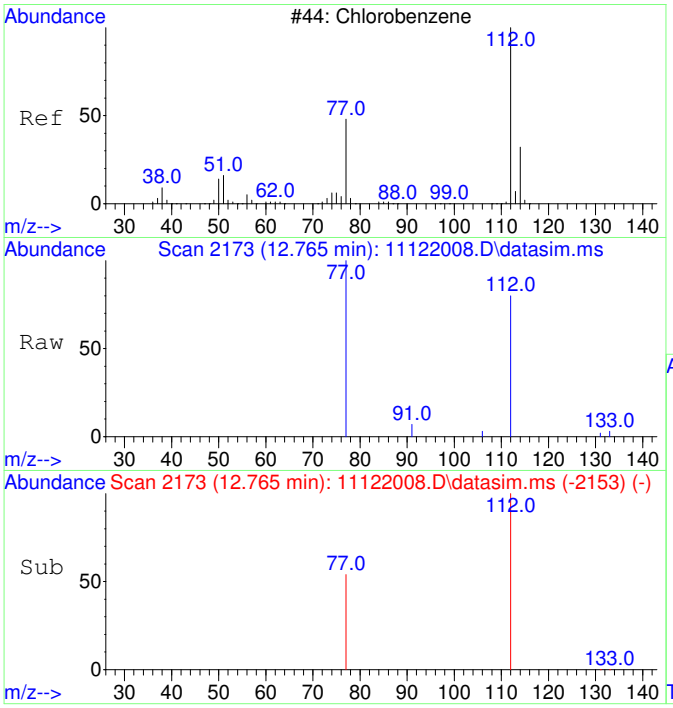


#15
Tetrachloroethene
Concen: 44.14 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:166 Resp: 1349

Ion	Ratio	Lower	Upper
166	100		
164	78.7	47.8	107.8

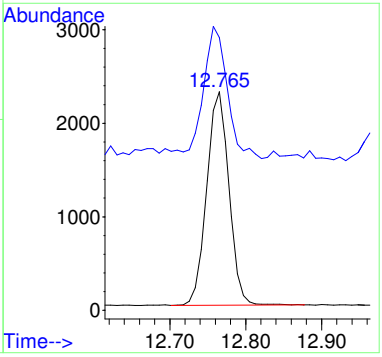


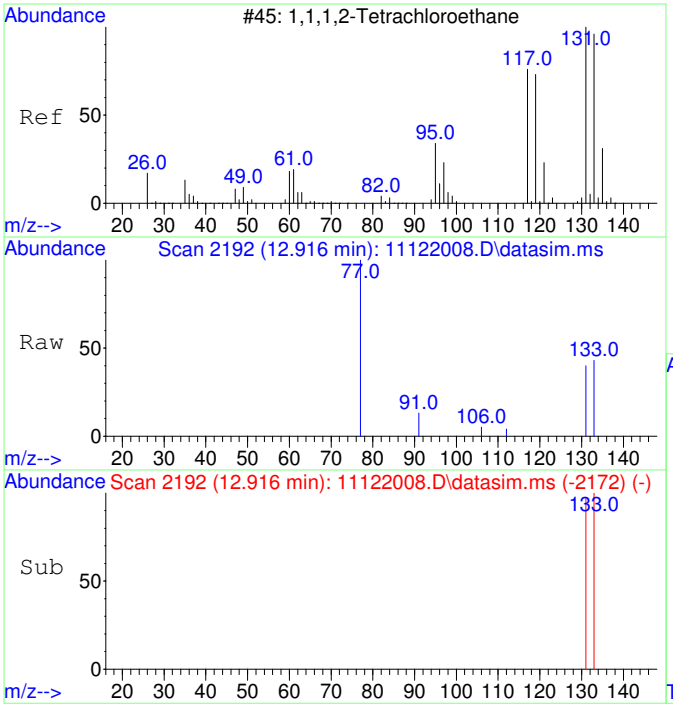


#16
Chlorobenzene
Concen: 61.49 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:112 Resp: 4650

Ion	Ratio	Lower	Upper
112	100		
77	65.8	23.6	83.6

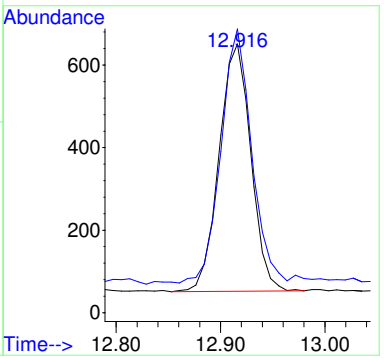


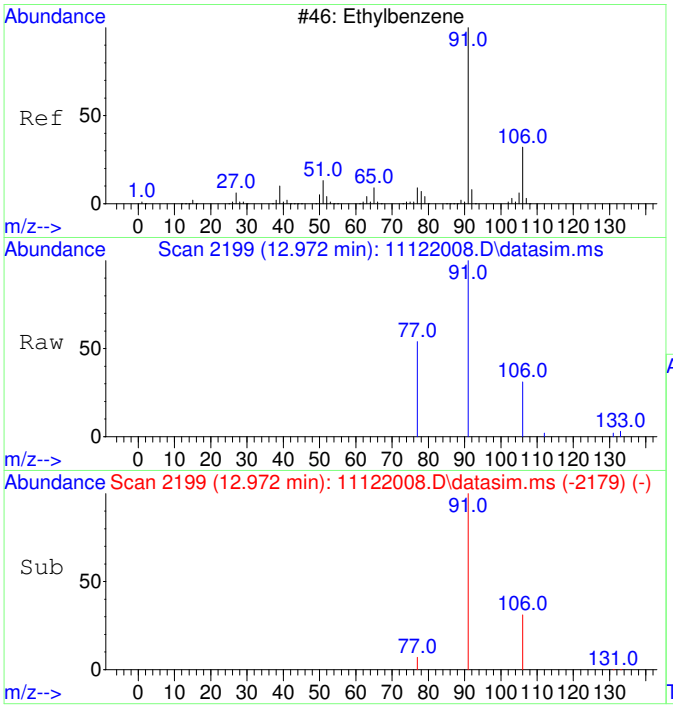


#17
1,1,1,2-Tetrachloroethane
Concen: 46.65 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:131 Resp: 1264

Ion	Ratio	Lower	Upper
131	100		
133	100.9	66.3	126.3

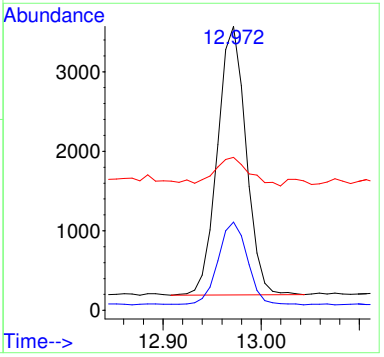


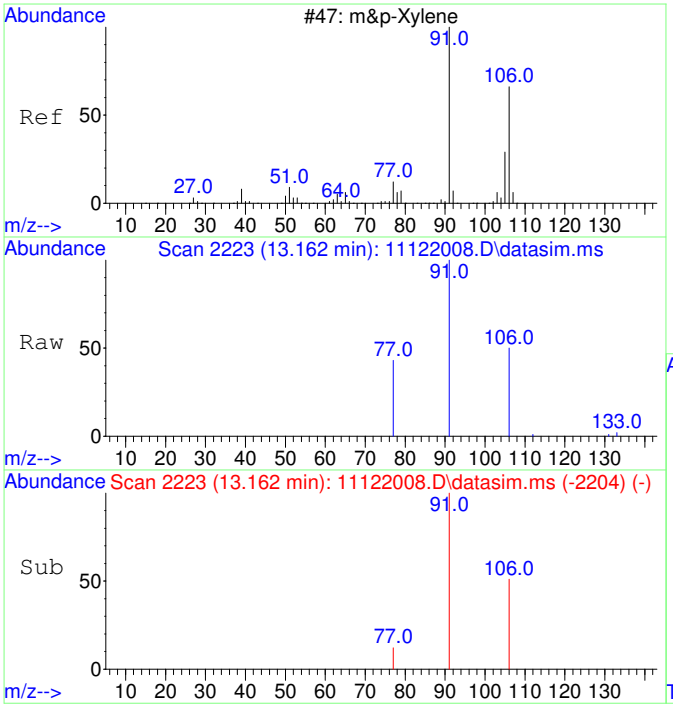


#18
Ethylbenzene
Concen: 52.91 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 6801

Ion	Ratio	Lower	Upper
91	100		
106	31.4	3.0	63.0
77	13.2	0.0	38.2

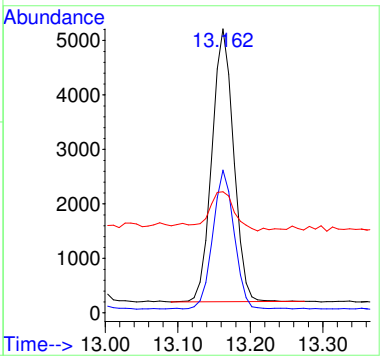


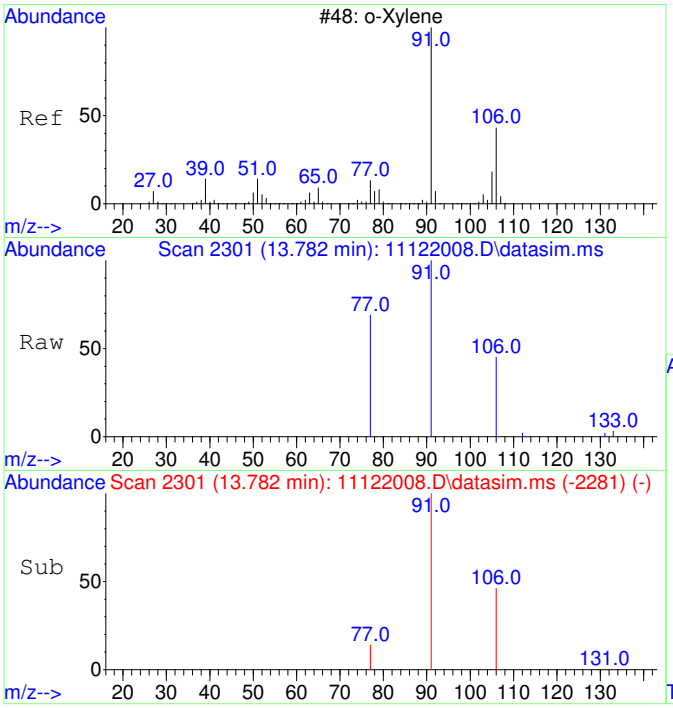


#19
m&p-Xylene
Concen: 103.68 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 10416

Ion	Ratio	Lower	Upper
91	100		
106	49.8	22.2	82.2
77	17.0	0.0	42.4

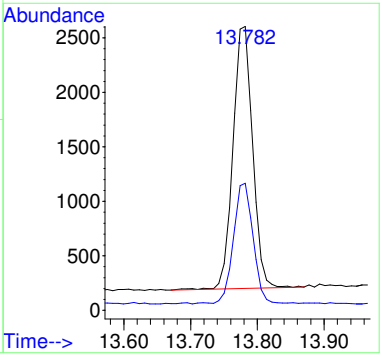


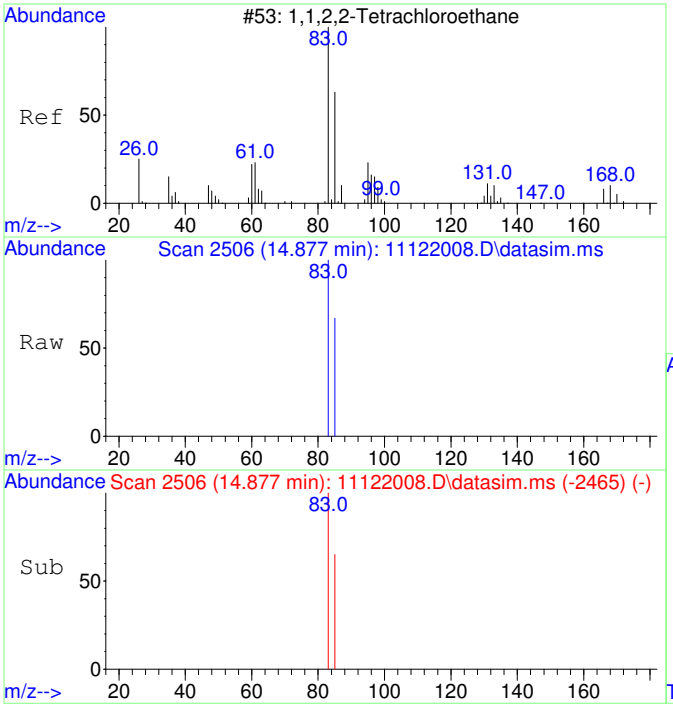


#20
o-Xylene
Concen: 45.76 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 4912

Ion	Ratio	Lower	Upper
91	100		
106	45.9	19.2	79.2

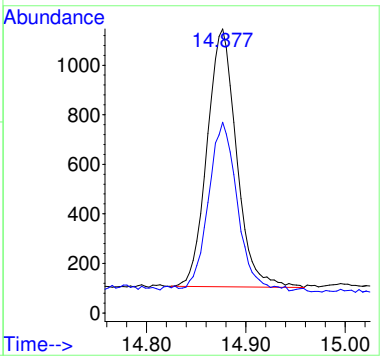


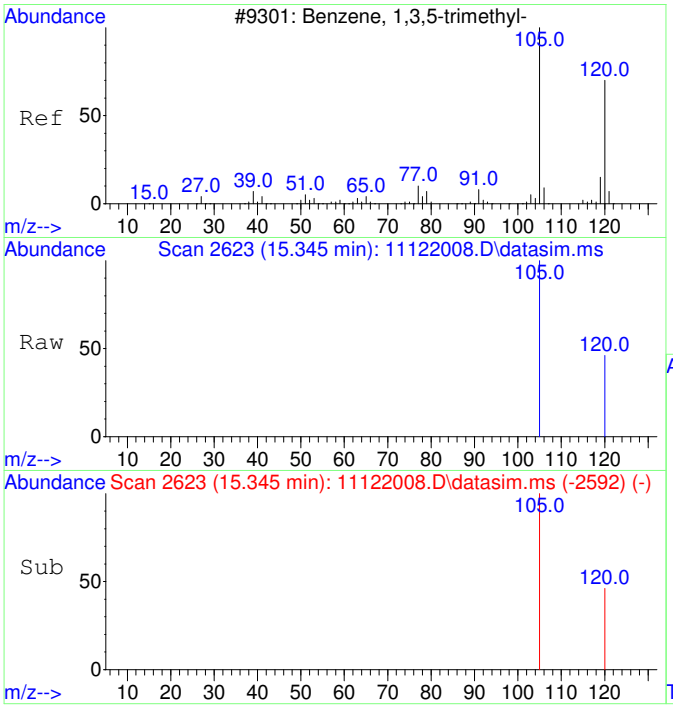


#21
1,1,2,2-Tetrachloroethane
Concen: 45.03 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. 0.004 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 2142

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.8	94.8

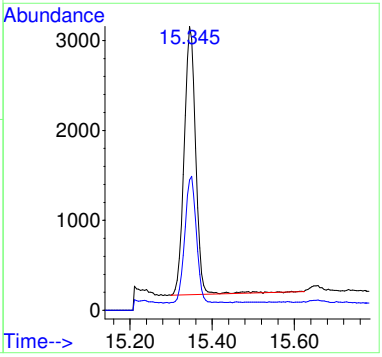


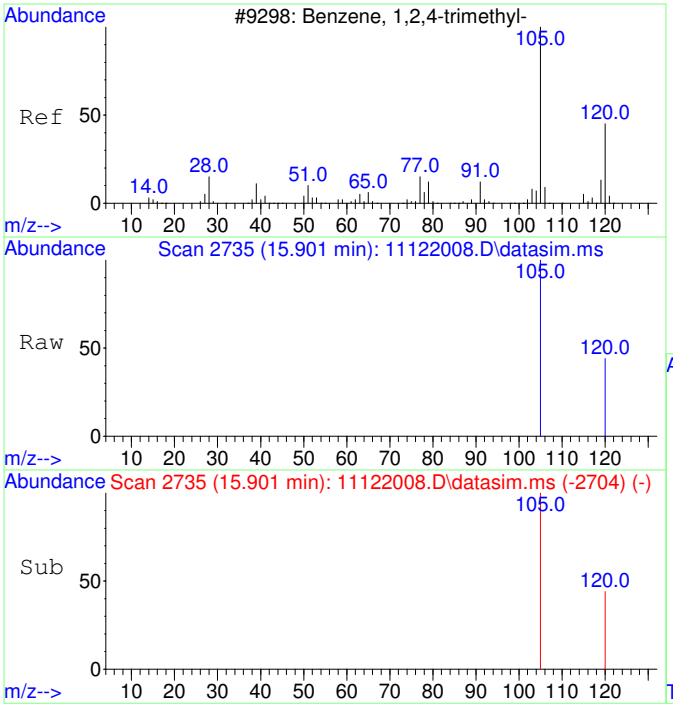


#22
1,3,5-Trimethylbenzene
Concen: 50.66 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 5787

Ion	Ratio	Lower	Upper
105	100		
120	46.4	21.1	81.1

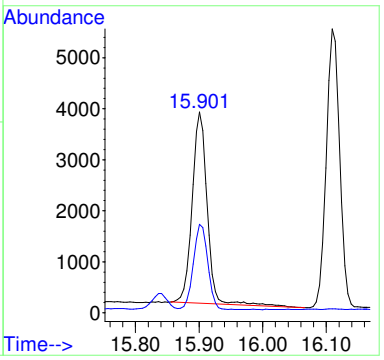


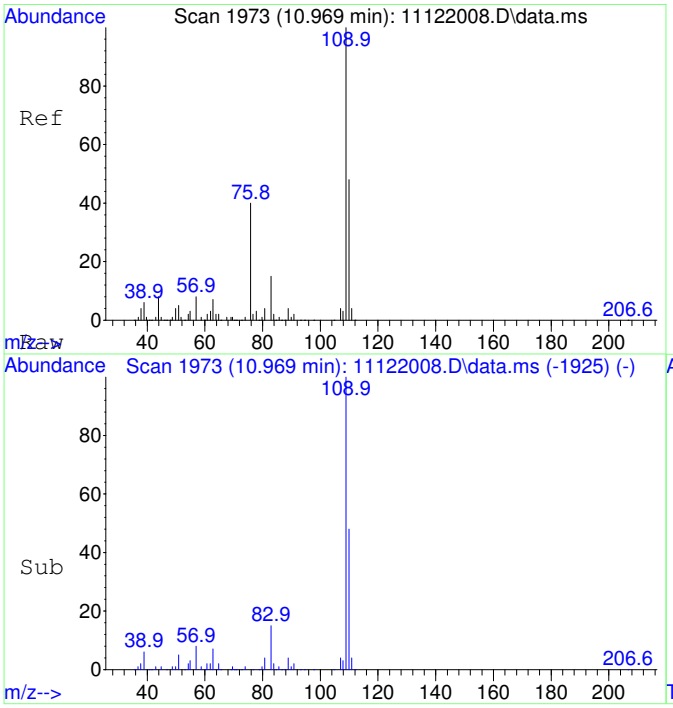


#23
1,2,4-Trimethylbenzene
Concen: 51.64 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 6128

Ion	Ratio	Lower	Upper
105	100		
120	41.9	17.2	77.2

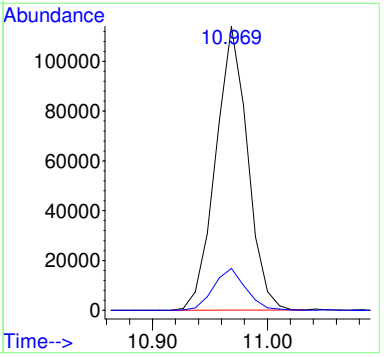


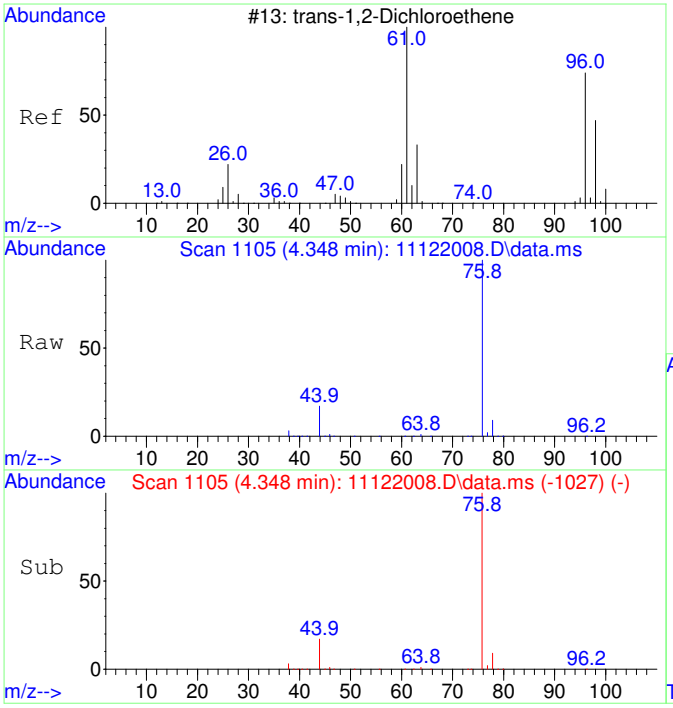


#25
2-Fluorotoluene SCAN
Concen: 5342.39 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:109 Resp: 220361

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	43.8

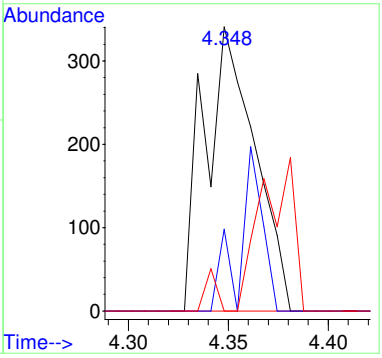


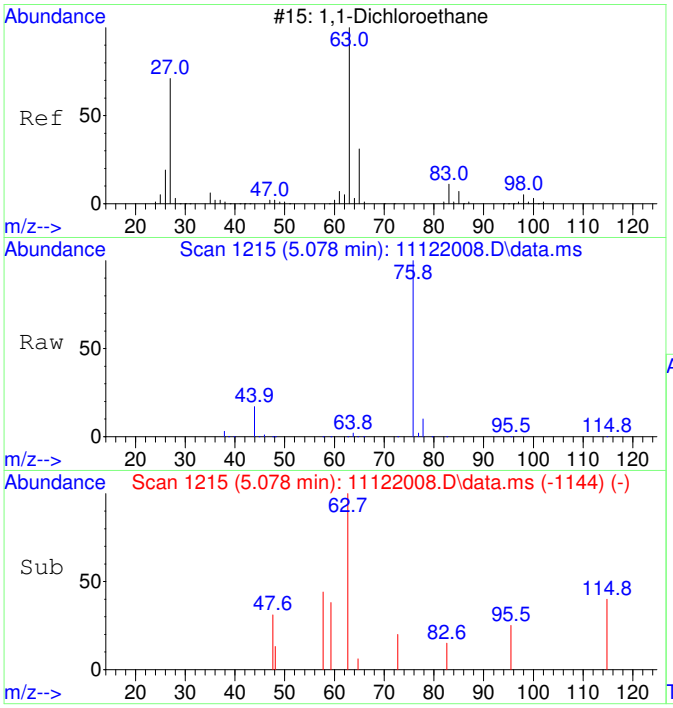


#27
trans-1,2-Dichloroethene SCAN
Concen: 55.63 ug/L
RT: 4.348 min Scan# 1105
Delta R.T. -0.053 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 603

Ion	Ratio	Lower	Upper
61	100		
96	26.2	49.0	109.0#
98	0.0	20.5	80.5#

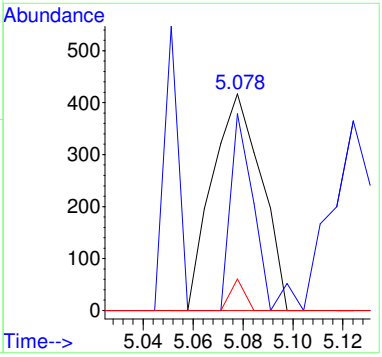


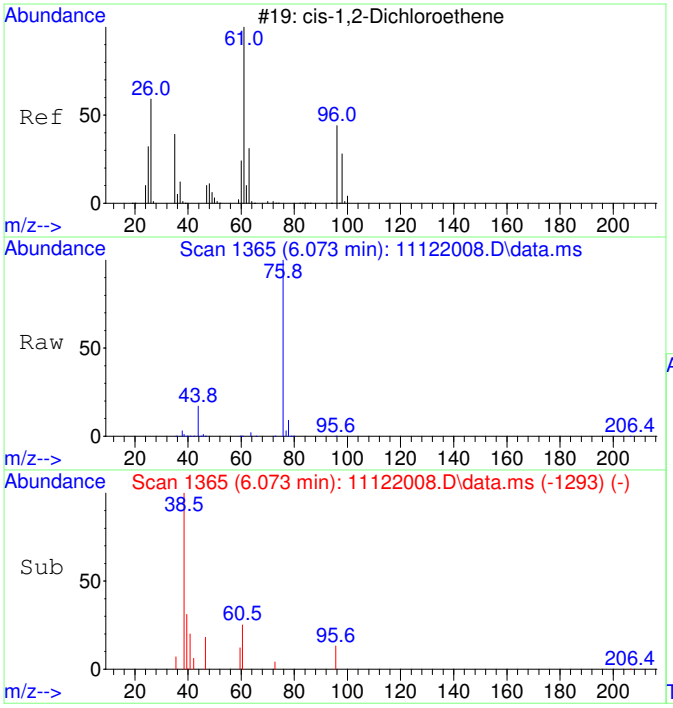


#28
1,1-Dichloroethane SCAN
Concen: 45.60 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. -0.027 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 63 Resp: 572

Ion	Ratio	Lower	Upper
63	100		
65	44.4	1.3	61.3
83	0.0	0.0	45.9

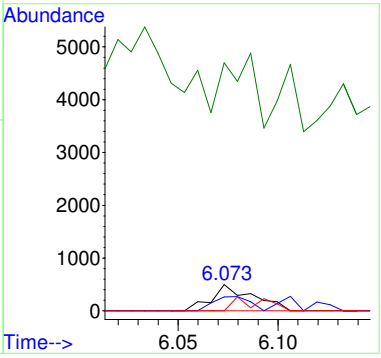


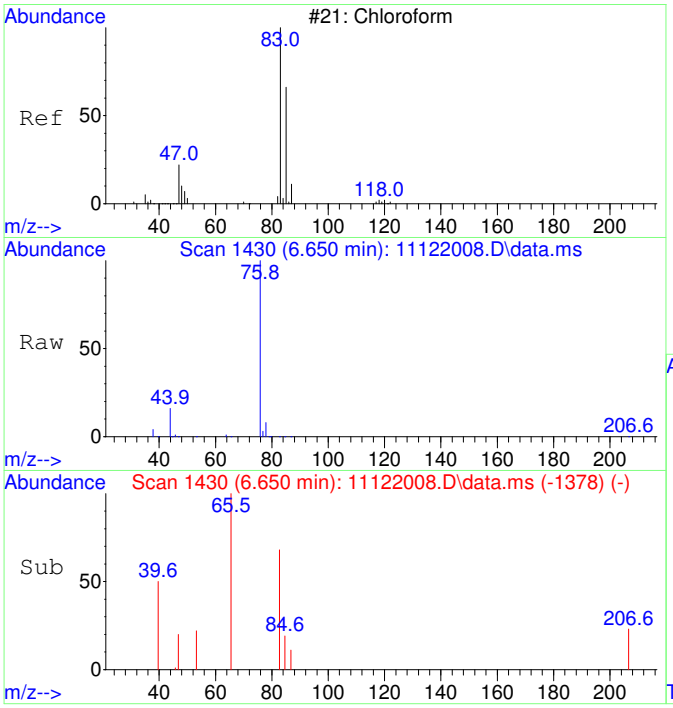


#29
cis-1,2-Dichloroethene SCAN
Concen: 53.94 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.020 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 725

Ion	Ratio	Lower	Upper
61	100		
96	46.8	39.9	99.9
98	37.5	13.5	73.5
64	162.3	4.5	64.5#

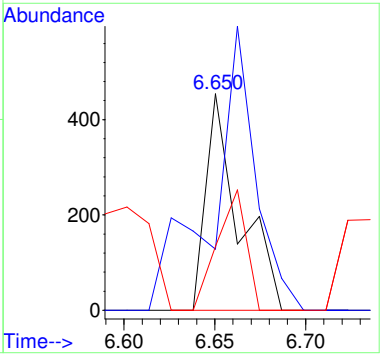


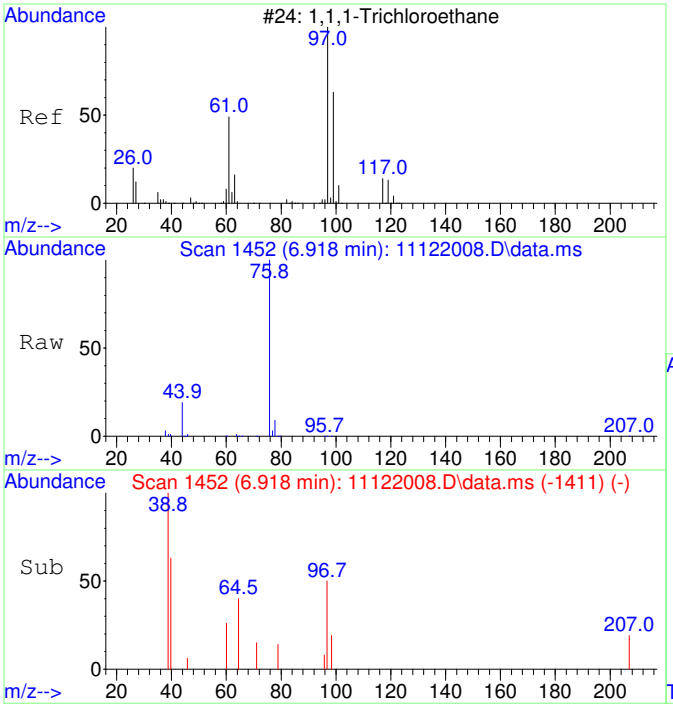


#30
Chloroform SCAN
Concen: 39.58 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 577

Ion	Ratio	Lower	Upper
83	100		
85	172.4	34.6	94.6#
47	48.9	0.0	53.4

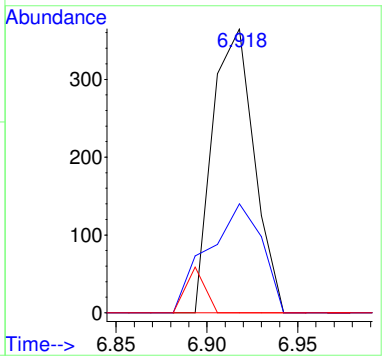


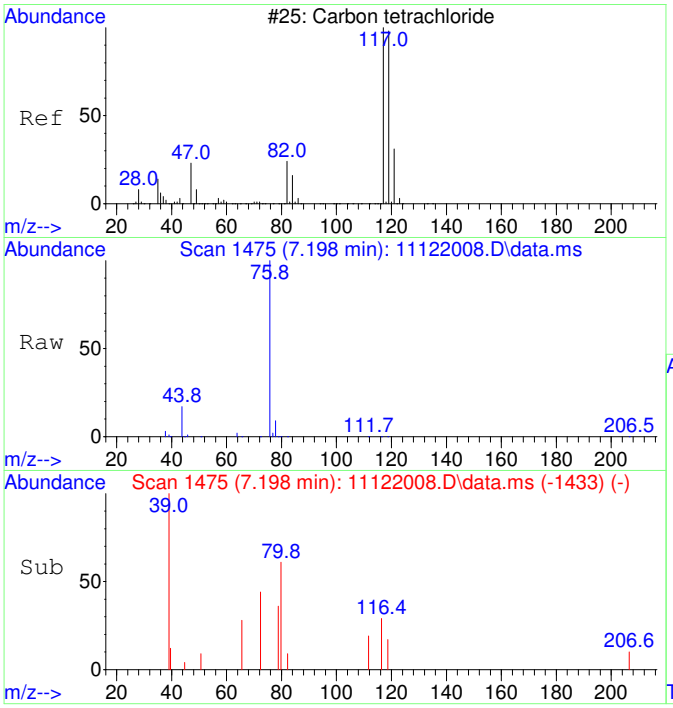


#31
1,1,1-Trichloroethane SCAN
Concen: 43.81 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 582

Ion	Ratio	Lower	Upper
97	100		
99	50.0	43.6	103.6
61	0.0	18.0	78.0#

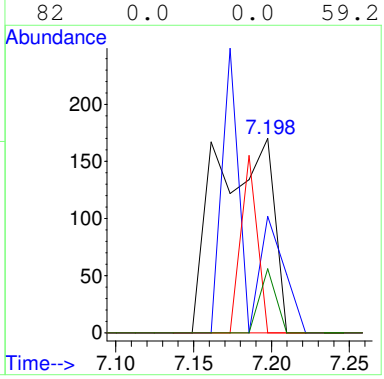


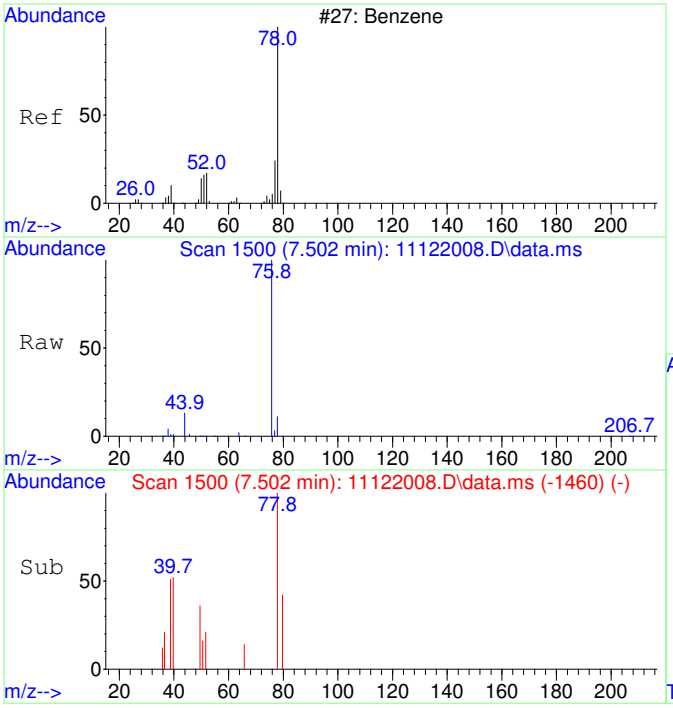


#32
Carbon tetrachloride SCAN
Concen: 31.25 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. 0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:117 Resp: 433

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	26.1	0.0	58.8
82	0.0	0.0	59.2

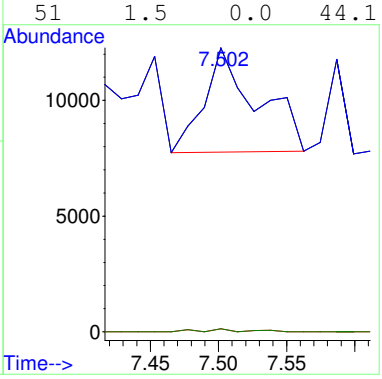


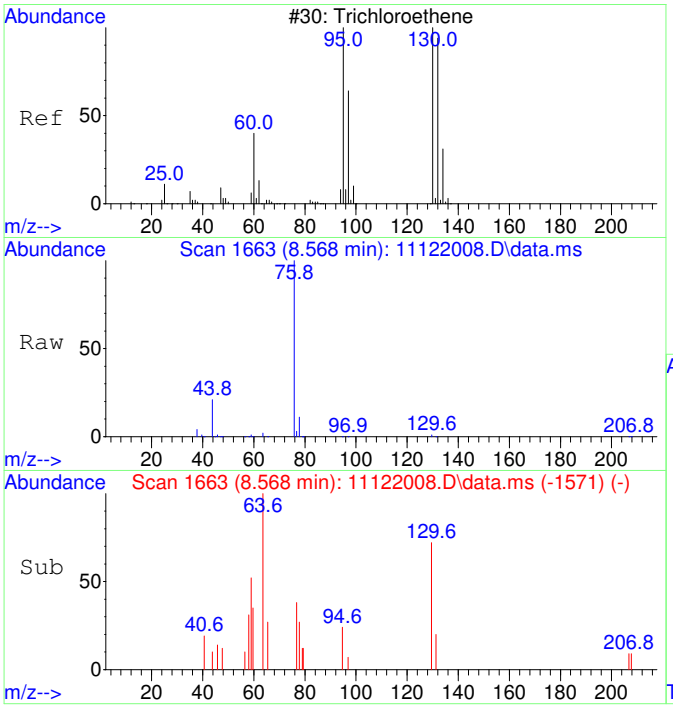


#33
Benzene SCAN
Concen: 332.39 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 78 Resp: 12158

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.5	0.0	47.9
51	1.5	0.0	44.1

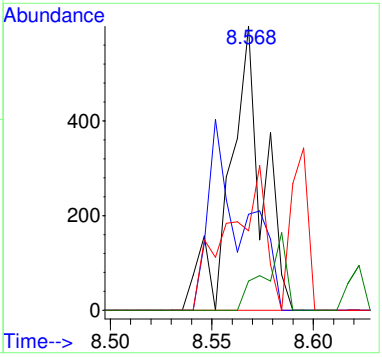


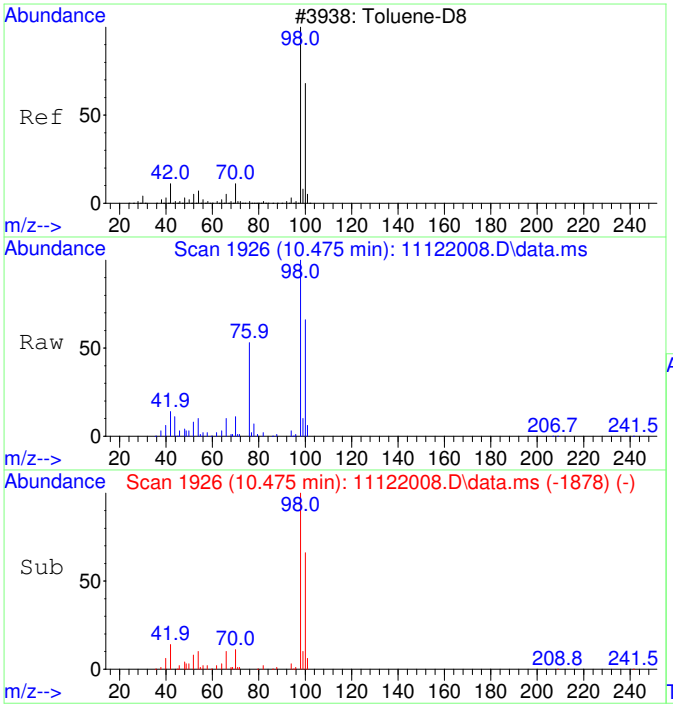


#35
Trichloroethene SCAN
Concen: 67.45 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:130 Resp: 678

Ion	Ratio	Lower	Upper
130	100		
95	0.0	60.5	120.5#
132	58.0	59.6	119.6#
97	0.0	28.2	88.2#

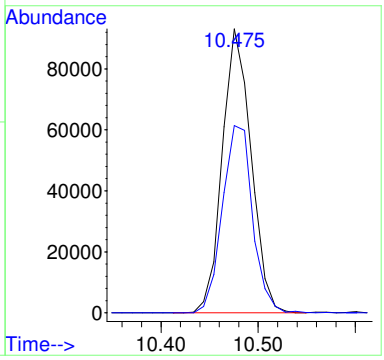


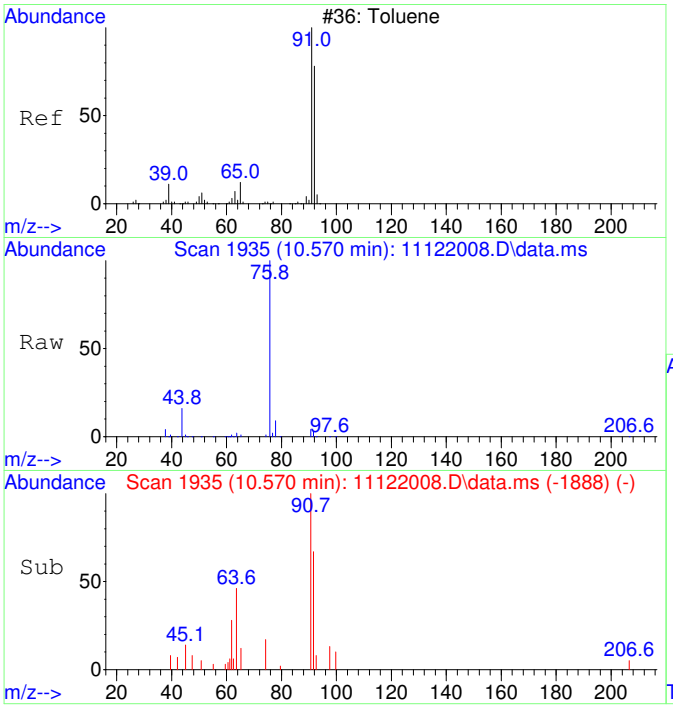


#36
Toluene-d8 SCAN
Concen: 4739.46 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 98 Resp: 191185

Ion	Ratio	Lower	Upper
98	100		
100	69.1	40.0	100.0

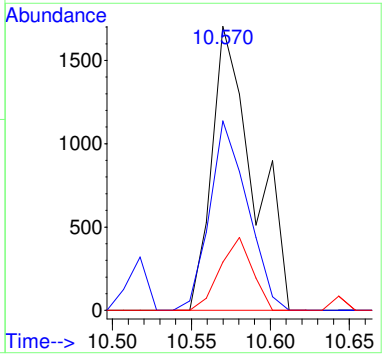


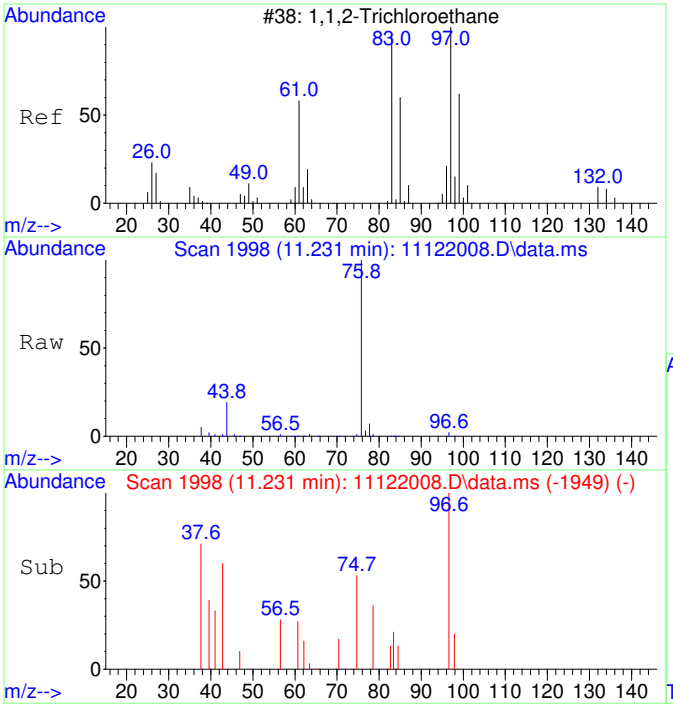


#37
Toluene SCAN
Concen: 60.20 ug/L
RT: 10.570 min Scan# 1935
Delta R.T. -0.011 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 3110

Ion	Ratio	Lower	Upper
91	100		
92	61.1	28.3	88.3
65	20.1	0.0	41.0

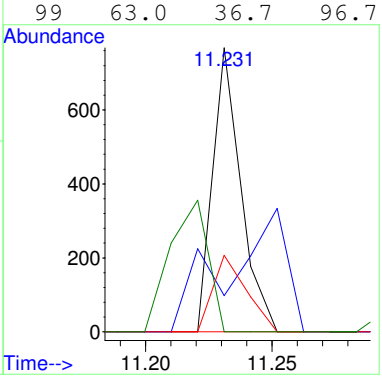


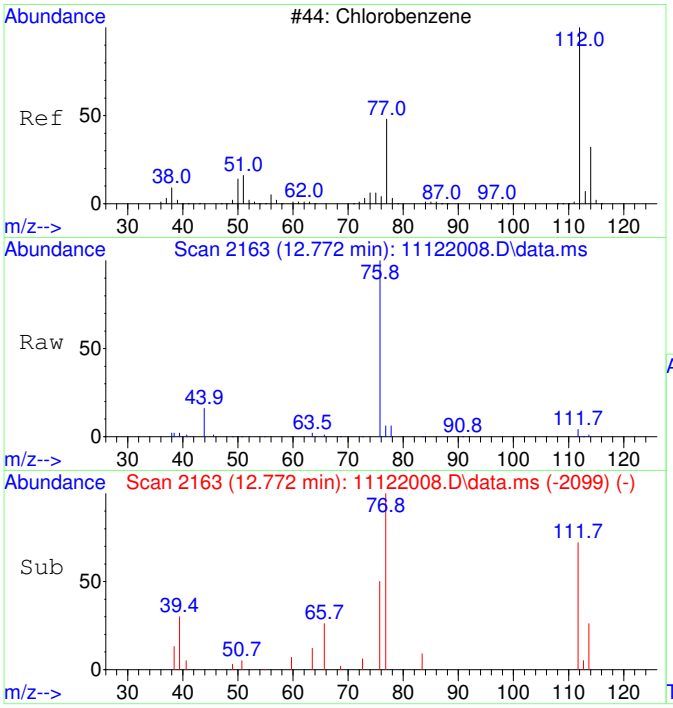


#38
1,1,2-Trichloroethane SCAN
Concen: 51.31 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. 0.010 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 595

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	31.9	32.1	92.1#
99	63.0	36.7	96.7

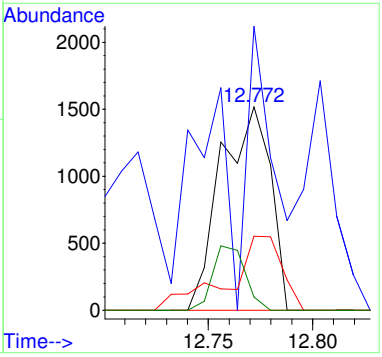


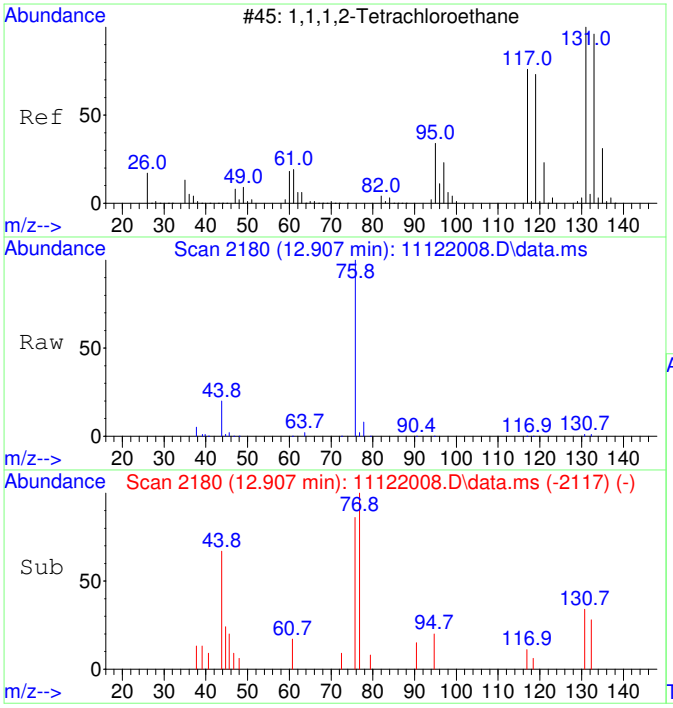


#40
Chlorobenzene SCAN
Concen: 71.19 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:112 Resp: 2513

Ion	Ratio	Lower	Upper
112	100		
77	55.4	28.2	88.2
114	39.6	2.3	62.3
51	0.0	0.0	50.1

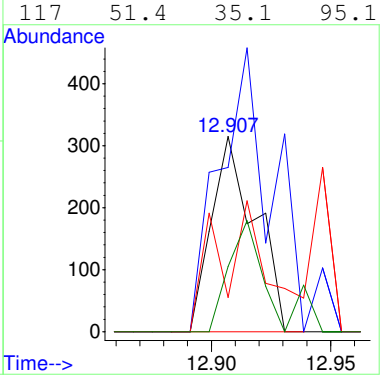


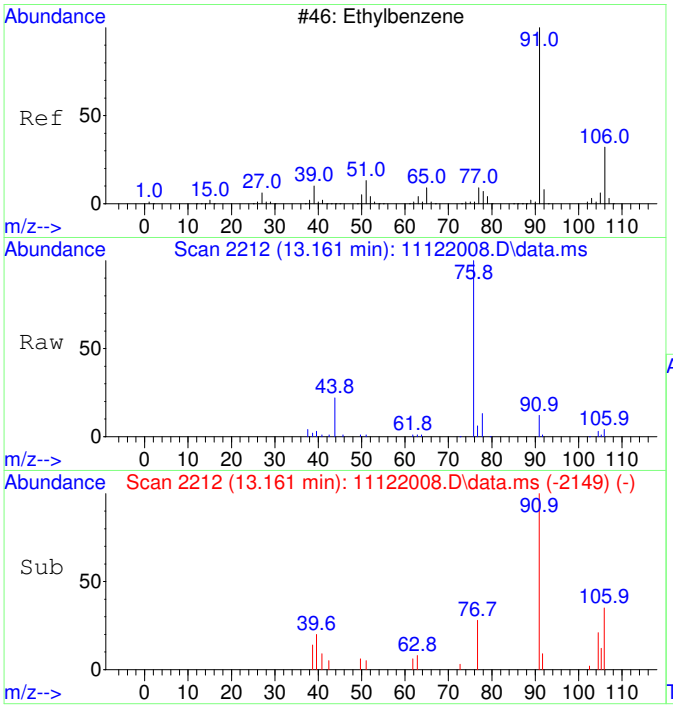


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 30.70 ug/L
RT: 12.907 min Scan# 2180
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:131 Resp: 401

Ion	Ratio	Lower	Upper
131	100		
133	183.5	66.9	126.9#
119	59.1	40.4	100.4
117	51.4	35.1	95.1

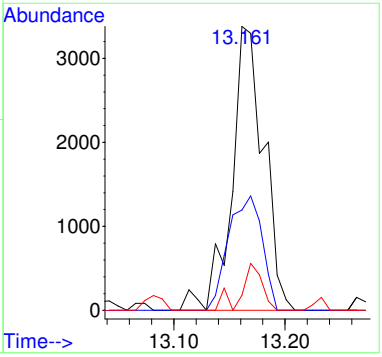


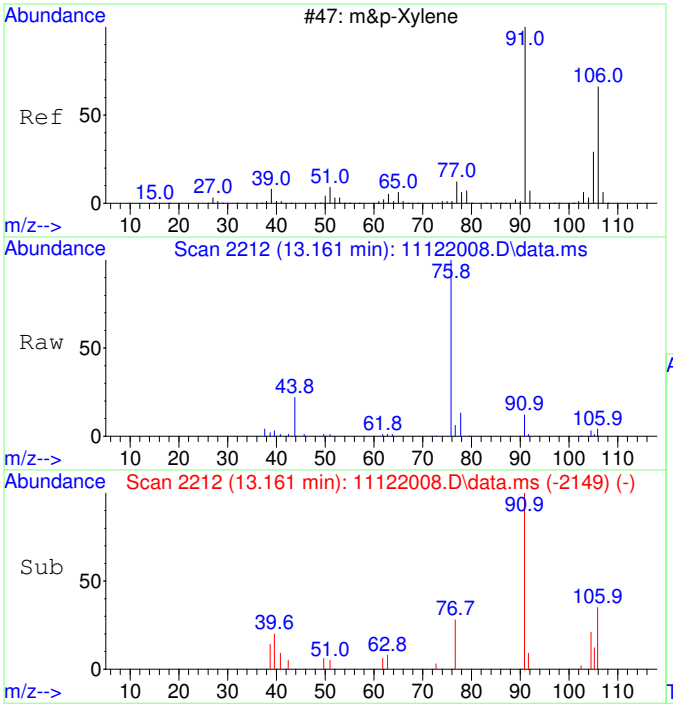


#42
Ethylbenzene SCAN
Concen: 71.99 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 6775

Ion	Ratio	Lower	Upper
91	100		
106	42.4	23.1	83.1
51	10.8	0.0	40.1

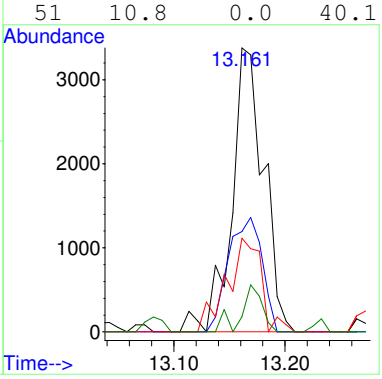


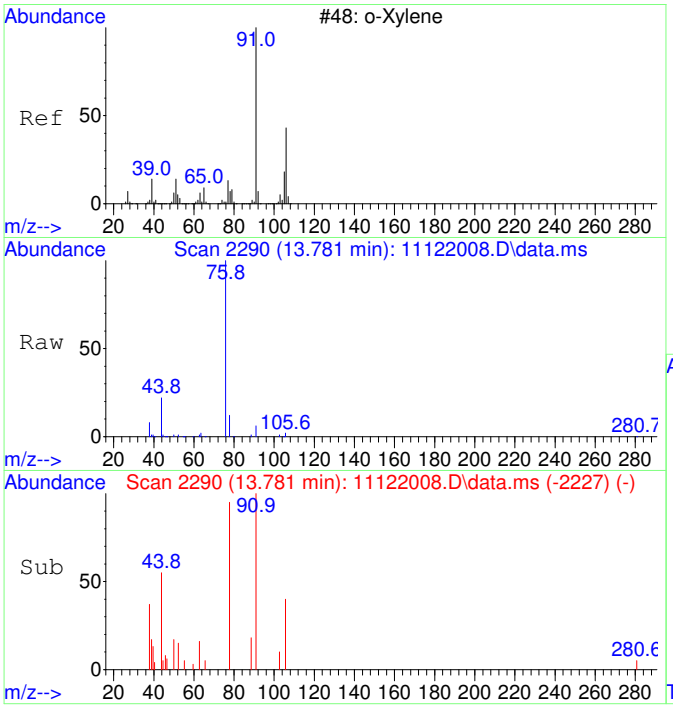


#43
m&p-Xylene SCAN
Concen: 71.99 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 6775

Ion	Ratio	Lower	Upper
91	100		
106	42.4	23.1	83.1
105	35.3	0.0	54.7
51	10.8	0.0	40.1

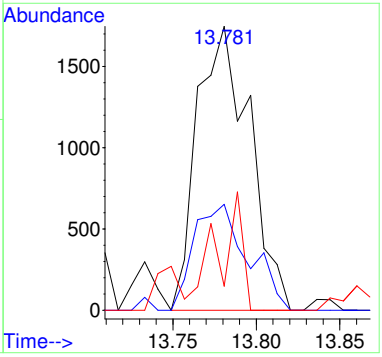


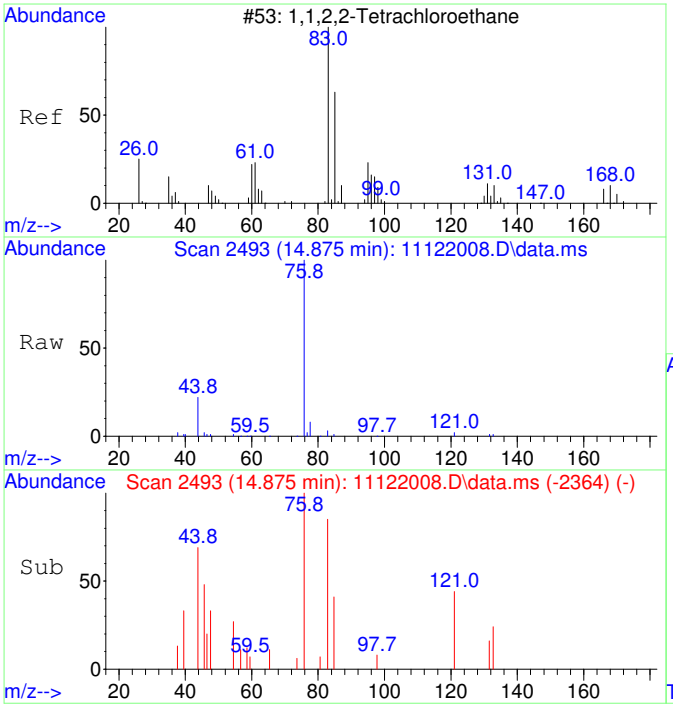


#44
o-Xylene SCAN
Concen: 75.99 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 3828

Ion	Ratio	Lower	Upper
91	100		
106	38.4	18.0	78.0
105	17.2	0.0	56.6

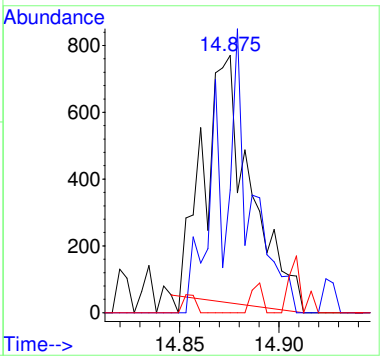


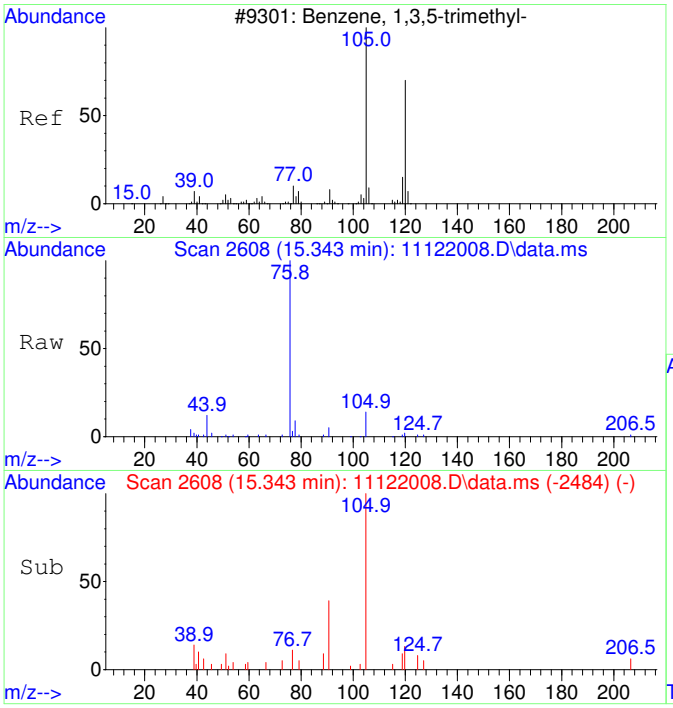


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 48.89 ug/L
RT: 14.875 min Scan# 2493
Delta R.T. 0.004 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 1201

Ion	Ratio	Lower	Upper
83	100		
85	36.7	35.9	95.9
95	0.0	0.0	47.4

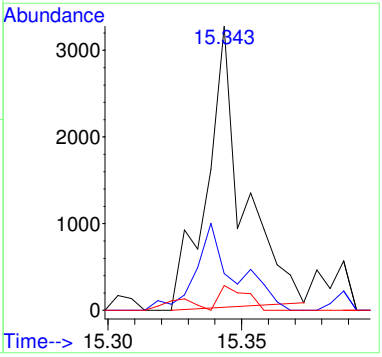


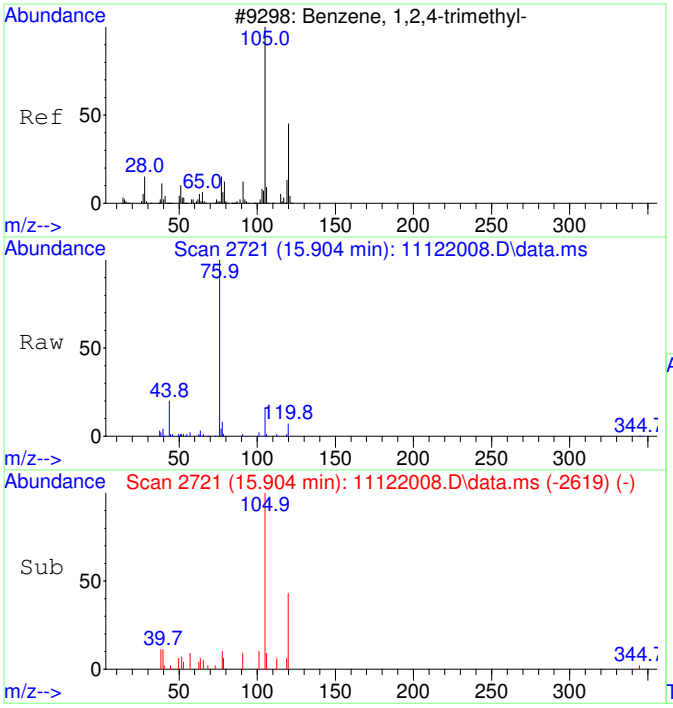


#46
1,3,5-Trimethylbenzene SCAN
Concen: 58.09 ug/L
RT: 15.343 min Scan# 2608
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 3084

Ion	Ratio	Lower	Upper
105	100		
120	33.4	18.3	78.3
119	6.6	0.0	43.1

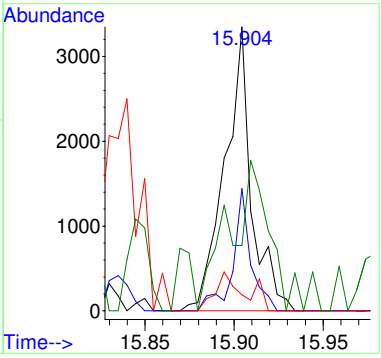




#47
1,2,4-Trimethylbenzene SCAN
Concen: 64.37 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 3497

Ion	Ratio	Lower	Upper
105	100		
120	28.9	16.9	76.9
119	0.0	0.0	41.9
77	24.9	0.0	42.3



Quantitation Report (QT Reviewed)

Table of Contents

M.I. Performed By:
TD at 12:00 pm, Nov 12, 2020

M.I. Approved By:
ZR at 2:15 pm, Nov 23, 2020

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122008.D
Acq On : 12 Nov 2020 11:14
InstName : AG5975C
Operator : TD
Sample : B20K043-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 12 11:33:05 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

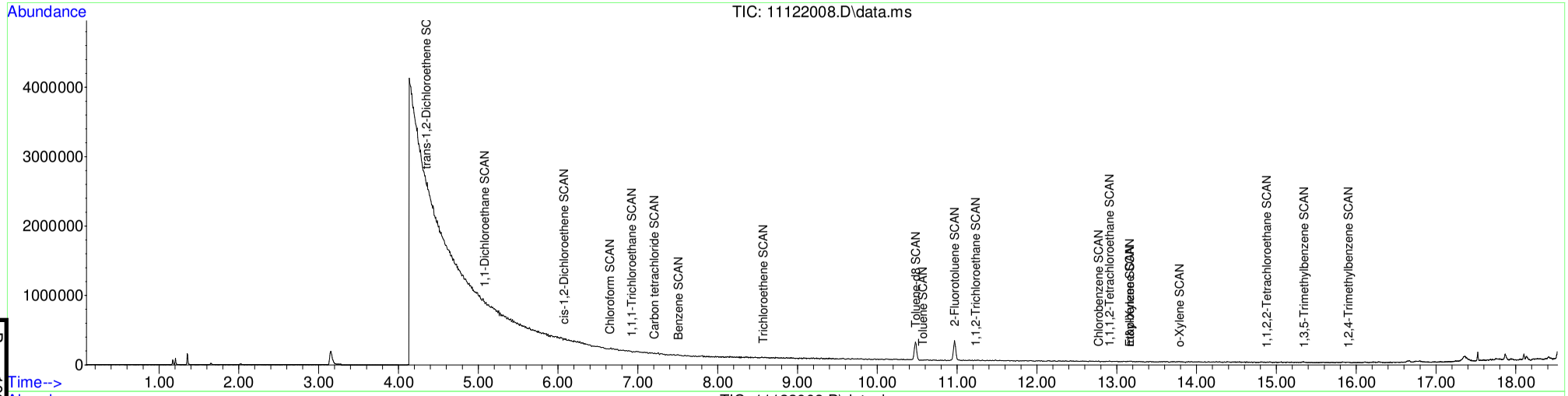
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	423133	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	366672	4426.65	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 88.53%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	703m	41.61	ug/L	
3] trans-1,2-Dichloroethene	4.362	61	852	43.64	ug/L	75
4] 1,1-Dichloroethane	5.079	63	1075	44.24	ug/L	74
5] cis-1,2-Dichloroethene	6.081	61	1129	44.01	ug/L	100
6] Chloroform	6.652	83	1395	53.13	ug/L	98
7] 1,1,1-Trichloroethane	6.907	97	1247	43.73	ug/L	99
8] Carbon tetrachloride	7.175	117	1150	42.85	ug/L	97
9] Benzene	7.503	78	6781	94.32	ug/L	46
10] 1,2-Dichloroethane	7.539	62	1132	44.11	ug/L #	1
11] Trichloroethene	8.569	130	980	45.27	ug/L	93
13] Toluene	10.571	91	5597	53.00	ug/L	98
14] 1,1,2-Trichloroethane	11.222	97	1004	43.63	ug/L	93
15] Tetrachloroethene	11.432	166	1349	44.14	ug/L	99
16] Chlorobenzene	12.765	112	4650	61.49	ug/L	83
17] 1,1,1,2-Tetrachloroethane	12.916	131	1264	46.65	ug/L	95
18] Ethylbenzene	12.972	91	6801	52.91	ug/L	95
19] m&p-Xylene	13.162	91	10416	103.68	ug/L	95
20] o-Xylene	13.782	91	4912	45.76	ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.877	83	2142	45.03	ug/L	99
22] 1,3,5-Trimethylbenzene	15.345	105	5787	50.66	ug/L	93
23] 1,2,4-Trimethylbenzene	15.901	105	6128	51.64	ug/L	92
25) 2-Fluorotoluene SCAN	10.969	109	220361	5342.39	ug/L	97
27) trans-1,2-Dichloroethe...	4.348	61	603	55.63	ug/L #	35
28) 1,1-Dichloroethane SCAN	5.078	63	572	45.60	ug/L #	72
29) cis-1,2-Dichloroethene...	6.073	61	725	53.94	ug/L #	32
30) Chloroform SCAN	6.650	83	577	39.58	ug/L #	1
31) 1,1,1-Trichloroethane ...	6.918	97	582	43.81	ug/L #	55
32) Carbon tetrachloride SCAN	7.198	117	433	31.25	ug/L #	23
33) Benzene SCAN	7.502	78	12158	332.39	ug/L	92
35) Trichloroethene SCAN	8.568	130	678	67.45	ug/L #	32
36) Toluene-d8 SCAN	10.475	98	191185	4739.46	ug/L	99
37) Toluene SCAN	10.570	91	3110	60.20	ug/L	93
38) 1,1,2-Trichloroethane ...	11.231	97	595	51.31	ug/L #	49
40) Chlorobenzene SCAN	12.772	112	2513	71.19	ug/L #	86
41) 1,1,1,2-Tetrachloroeth...	12.907	131	401	30.70	ug/L #	54
42) Ethylbenzene SCAN	13.161	91	6775	71.99	ug/L	87
43) m&p-Xylene SCAN	13.161	91	6775	71.99	ug/L	85
44) o-Xylene SCAN	13.781	91	3828	75.99	ug/L	84
45) 1,1,2,2-Tetrachloroeth...	14.875	83	1201	48.89	ug/L #	63
46) 1,3,5-Trimethylbenzene...	15.343	105	3084	58.09	ug/L	79
47) 1,2,4-Trimethylbenzene...	15.904	105	3497	64.37	ug/L #	71

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122008.D
Acq On : 12 Nov 2020 11:14
InstName : AG5975C
Operator : TD
Sample : B20K043-MRL1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 12 11:33:05 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



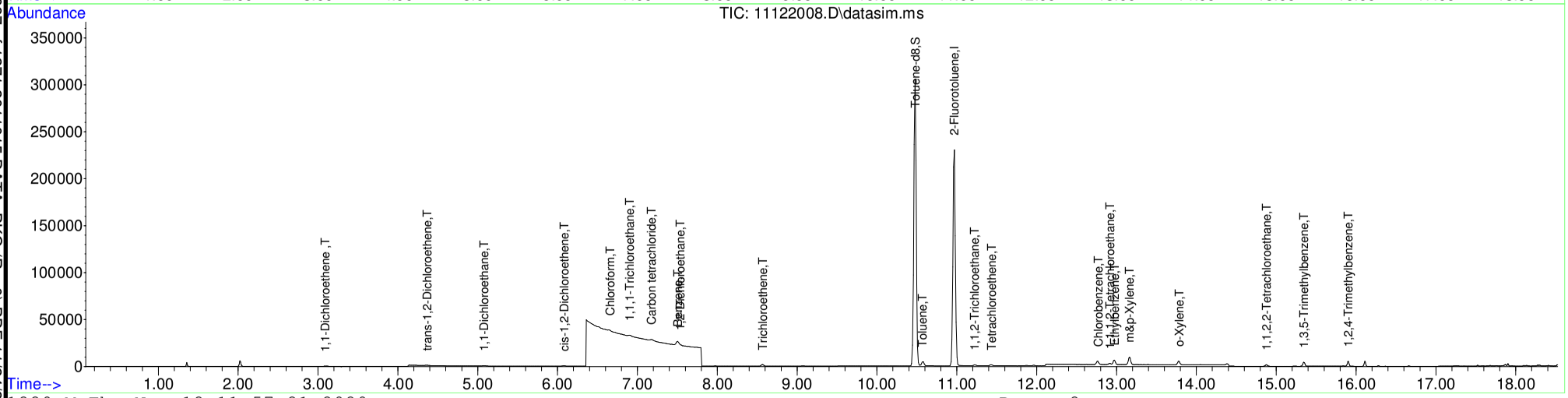
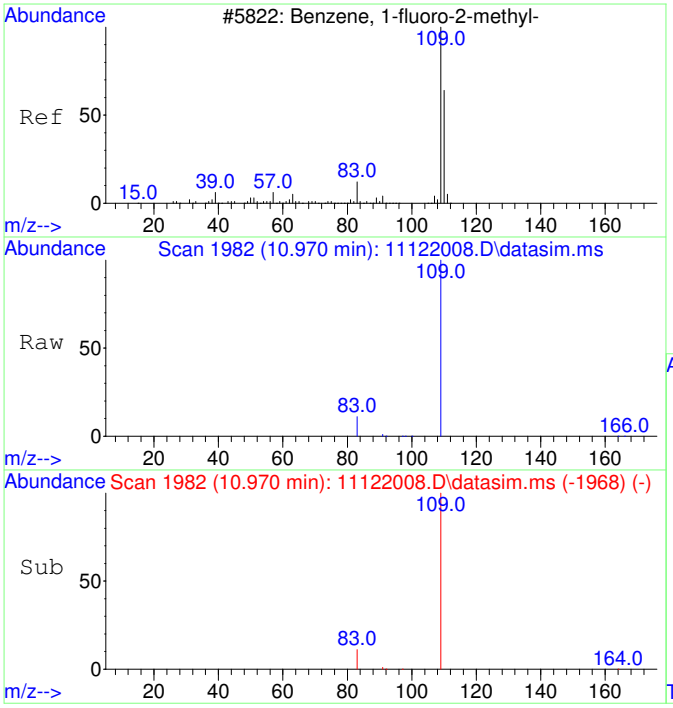


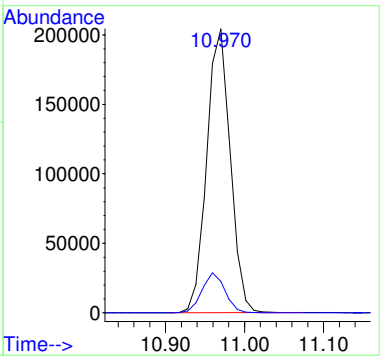
Table of Contents

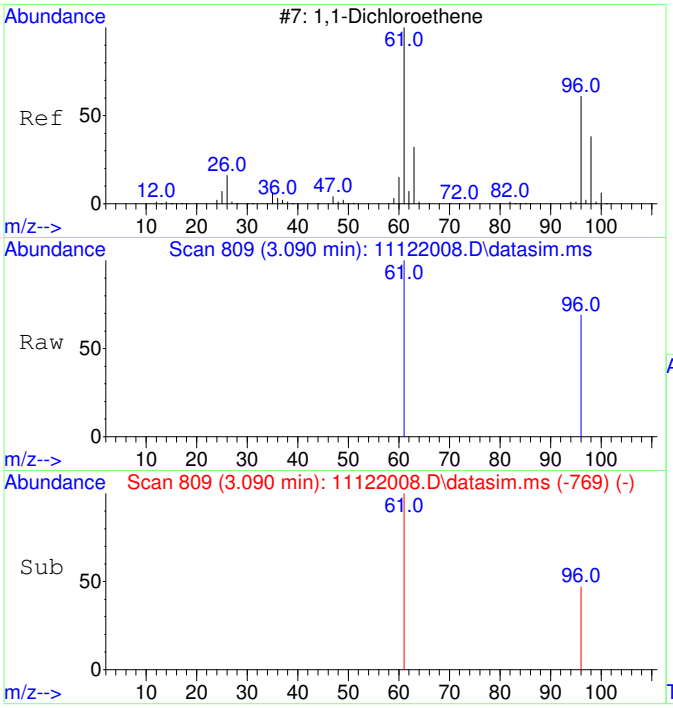


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:109 Resp: 423133

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	42.3

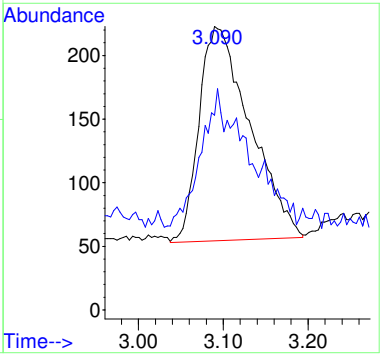


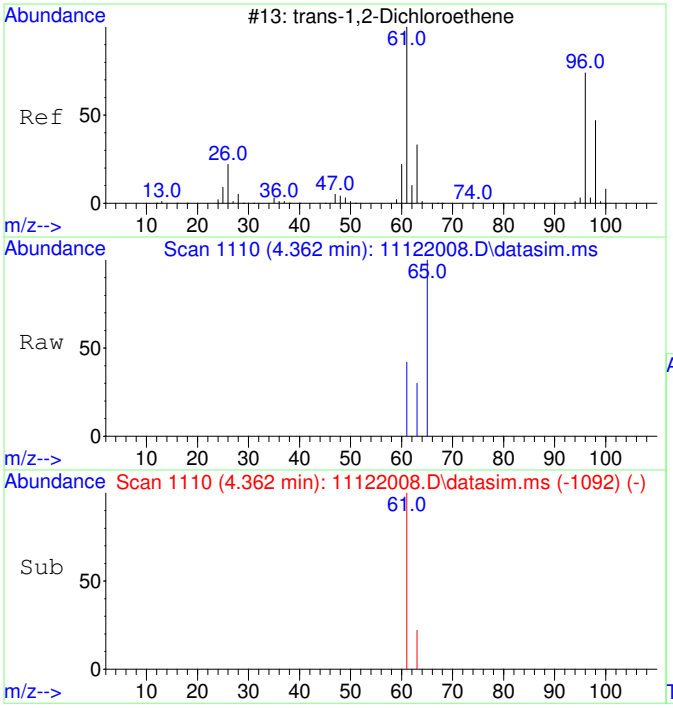


#2
1,1-Dichloroethene
Concen: 41.61 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 703

Ion	Ratio	Lower	Upper
61	100		
96	33.1	37.2	97.2#

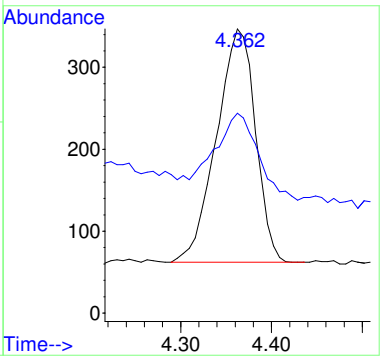


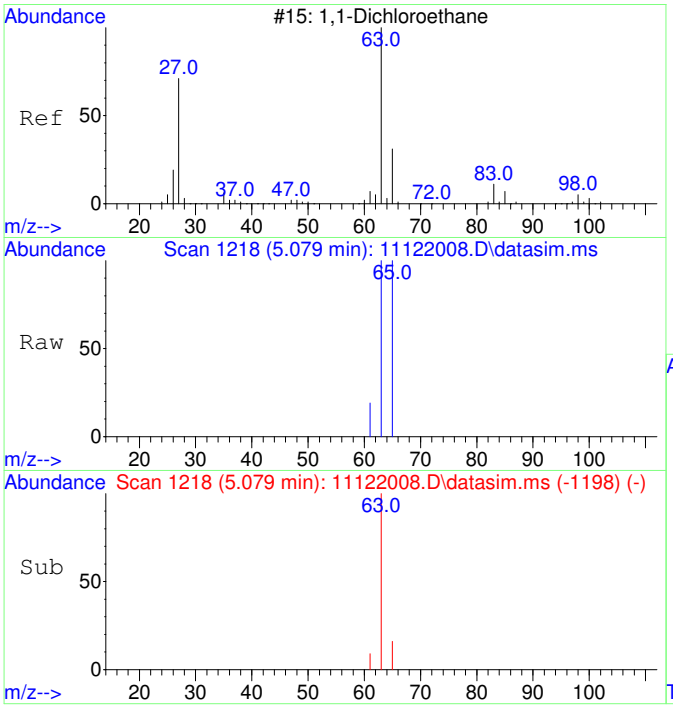


#3
trans-1,2-Dichloroethene
Concen: 43.64 ug/L
RT: 4.362 min Scan# 1110
Delta R.T. -0.033 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 852

Ion	Ratio	Lower	Upper
61	100		
63	46.4	2.4	62.4

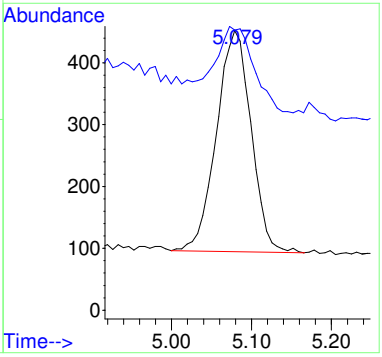


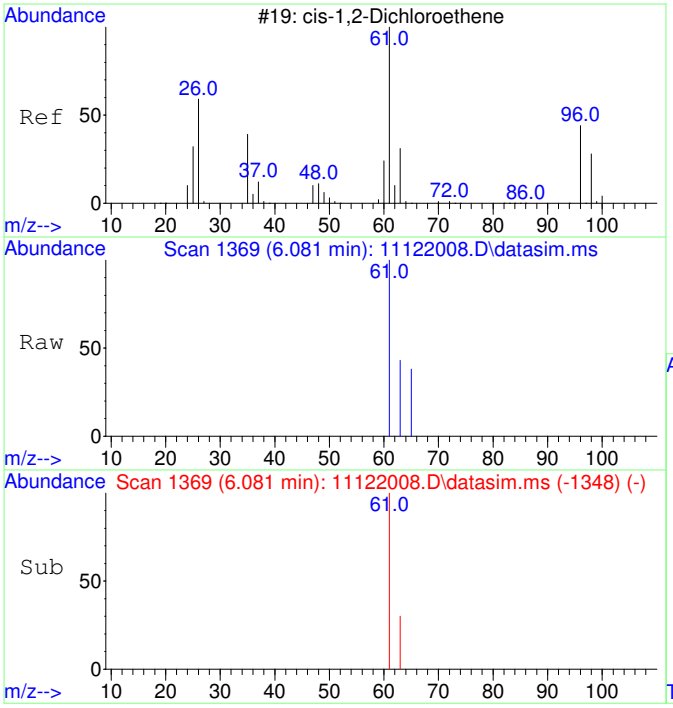


#4
1,1-Dichloroethane
Concen: 44.24 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 63 Resp: 1075

Ion	Ratio	Lower	Upper
63	100		
65	46.4	1.8	61.8

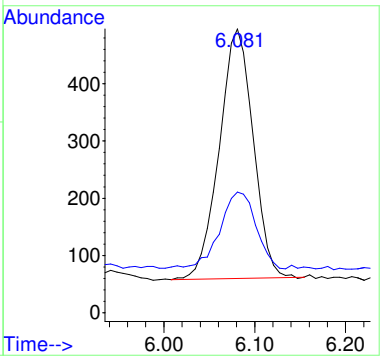


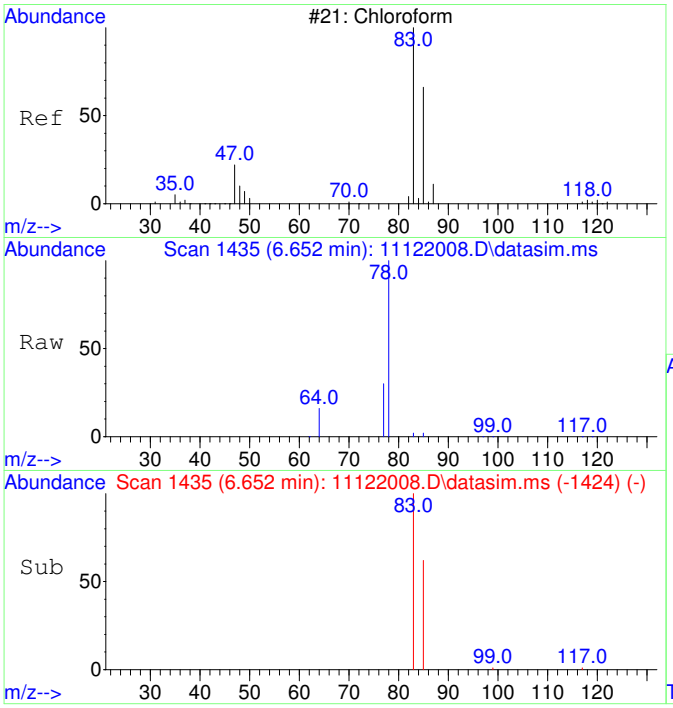


#5
cis-1,2-Dichloroethene
Concen: 44.01 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 1129

Ion	Ratio	Lower	Upper
61	100		
63	32.4	2.5	62.5

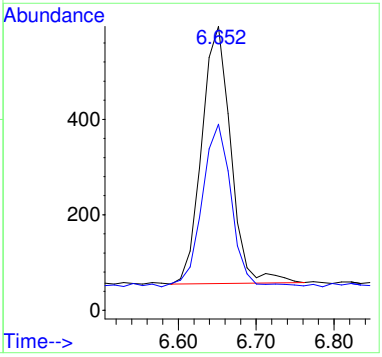


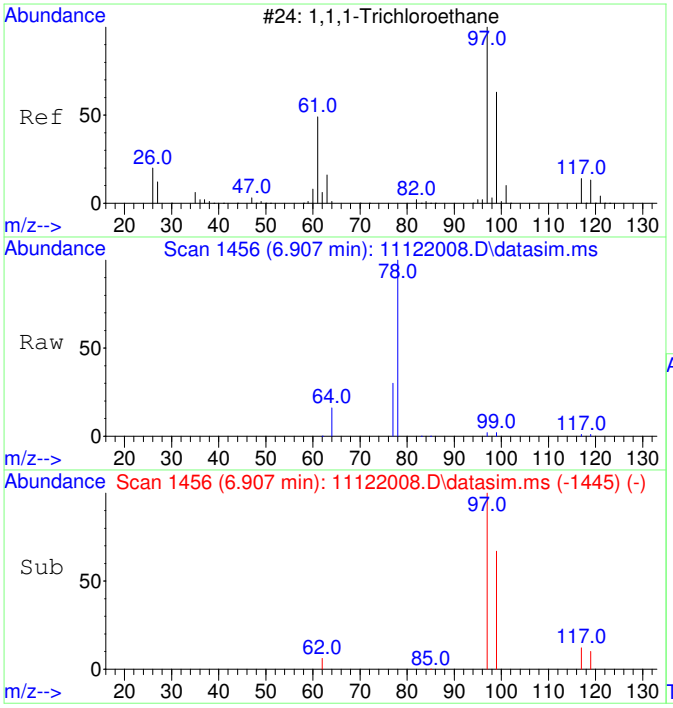


#6
Chloroform
Concen: 53.13 ug/L
RT: 6.652 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 1395

Ion	Ratio	Lower	Upper
83	100		
85	63.2	35.1	95.1

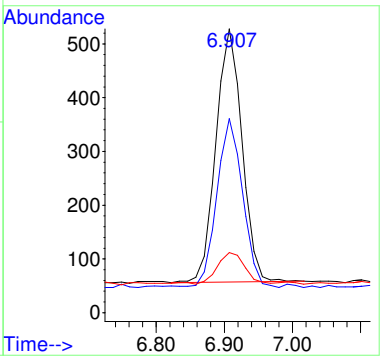


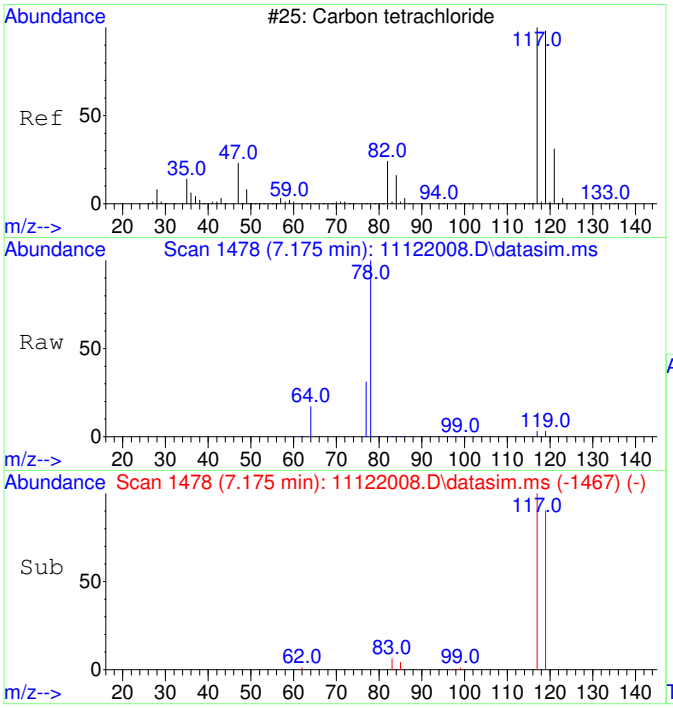


#7
1,1,1-Trichloroethane
Concen: 43.73 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 1247

Ion	Ratio	Lower	Upper
97	100		
99	65.3	34.6	94.6
117	13.2	0.0	43.2

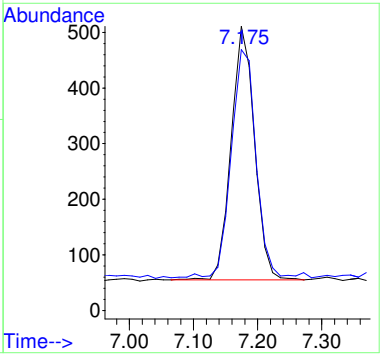


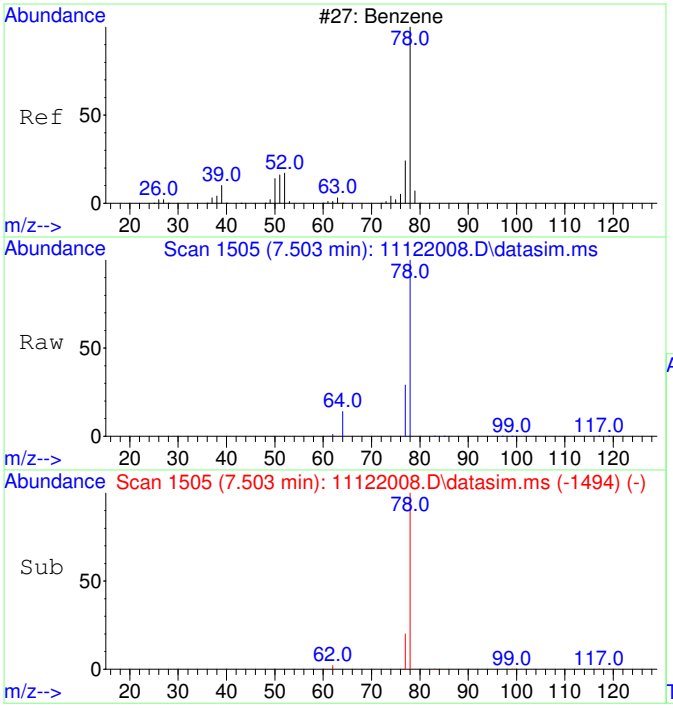


#8
Carbon tetrachloride
Concen: 42.85 ug/L
RT: 7.175 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:117 Resp: 1150

Ion	Ratio	Lower	Upper
117	100		
119	93.6	66.4	126.4

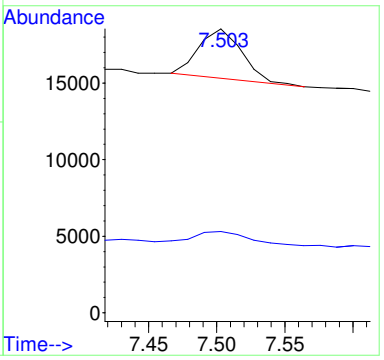


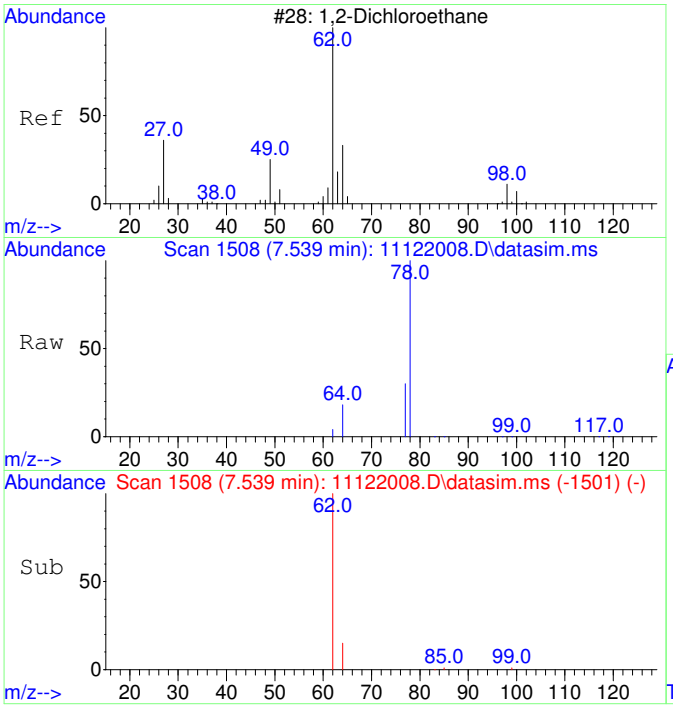


#9
Benzene
Concen: 94.32 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 78 Resp: 6781

Ion	Ratio	Lower	Upper
78	100		
77	49.5	0.0	53.2

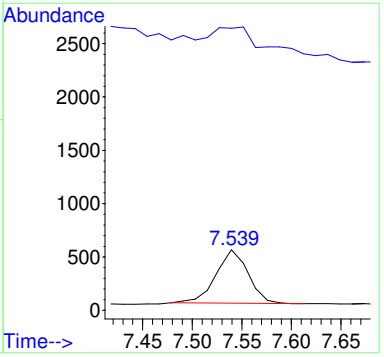


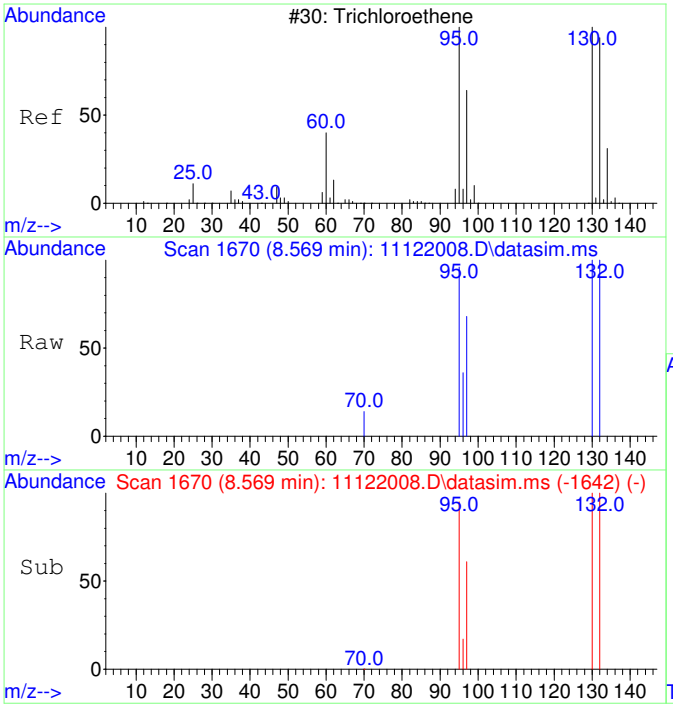


#10
1,2-Dichloroethane
Concen: 44.11 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 62 Resp: 1132

Ion	Ratio	Lower	Upper
62	100		
64	110.9	2.3	62.3#

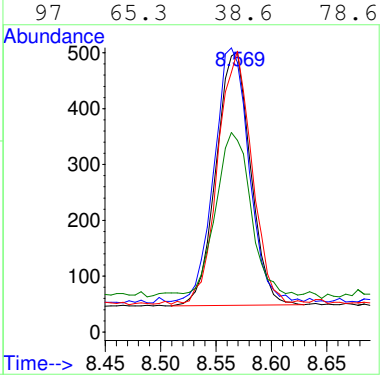


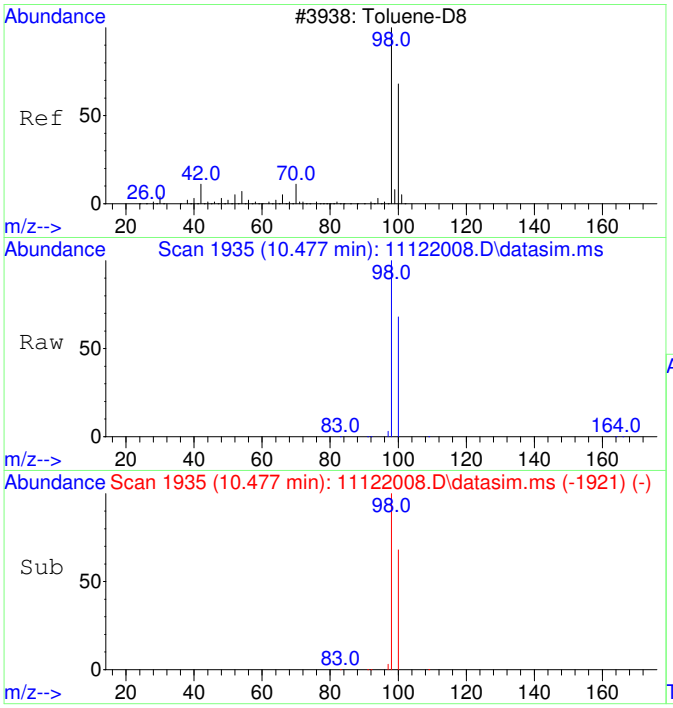


#11
Trichloroethene
Concen: 45.27 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:130 Resp: 980

Ion	Ratio	Lower	Upper
130	100		
95	100.6	60.7	120.7
132	98.1	76.0	116.0
97	65.3	38.6	78.6

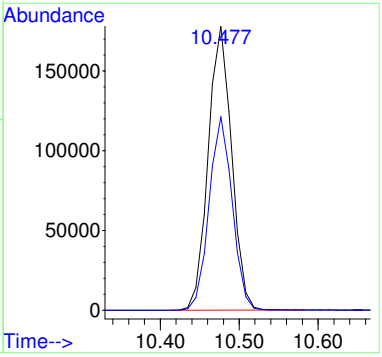


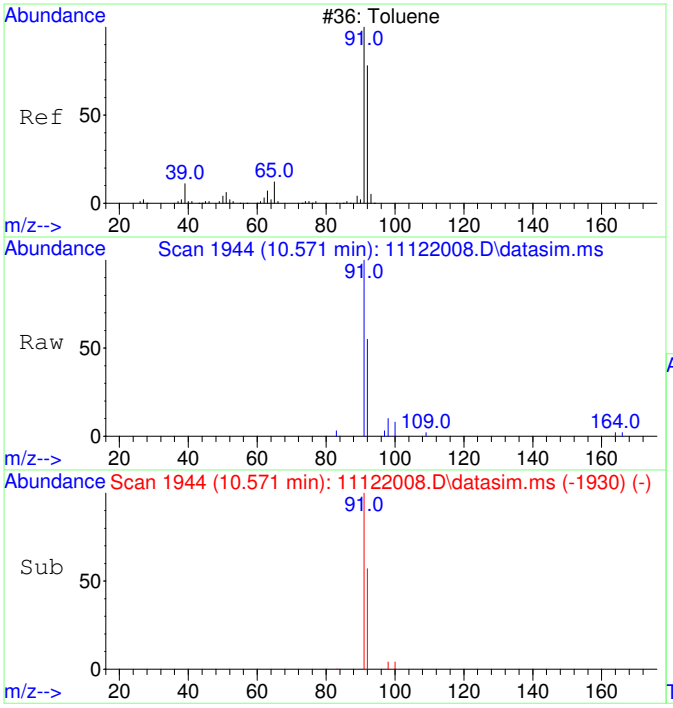


#12
Toluene-d8
Concen: 4426.65 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 98 Resp: 366672

Ion	Ratio	Lower	Upper
98	100		
100	67.0	37.1	97.1

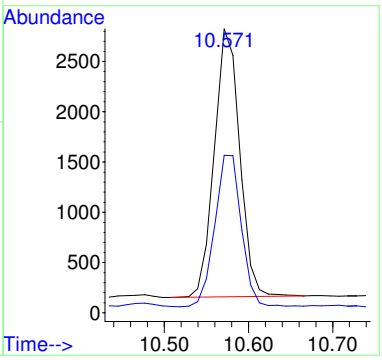


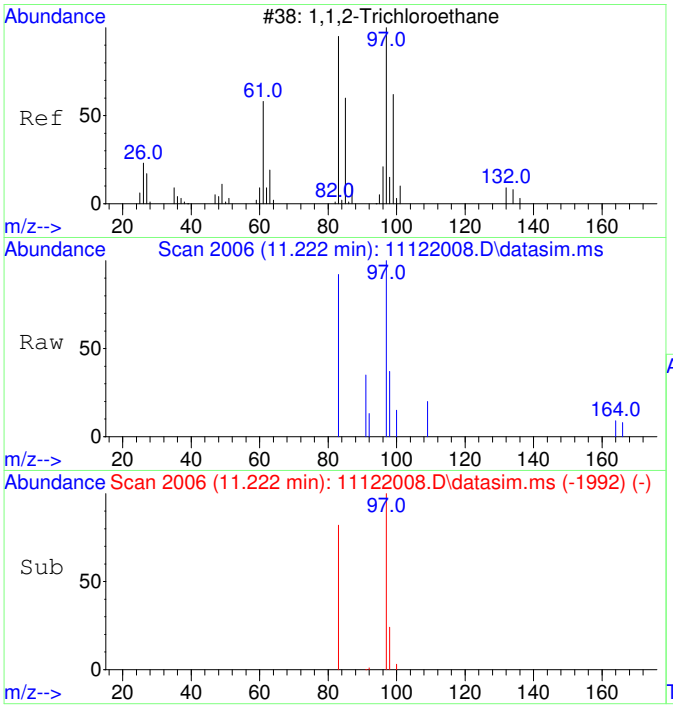


#13
Toluene
Concen: 53.00 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 5597

Ion	Ratio	Lower	Upper
91	100		
92	58.7	29.9	89.9

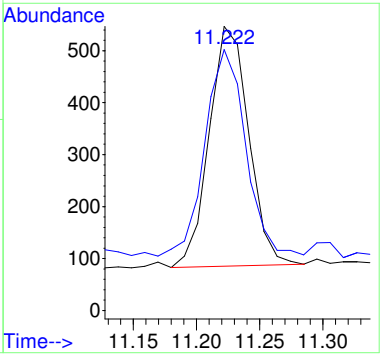


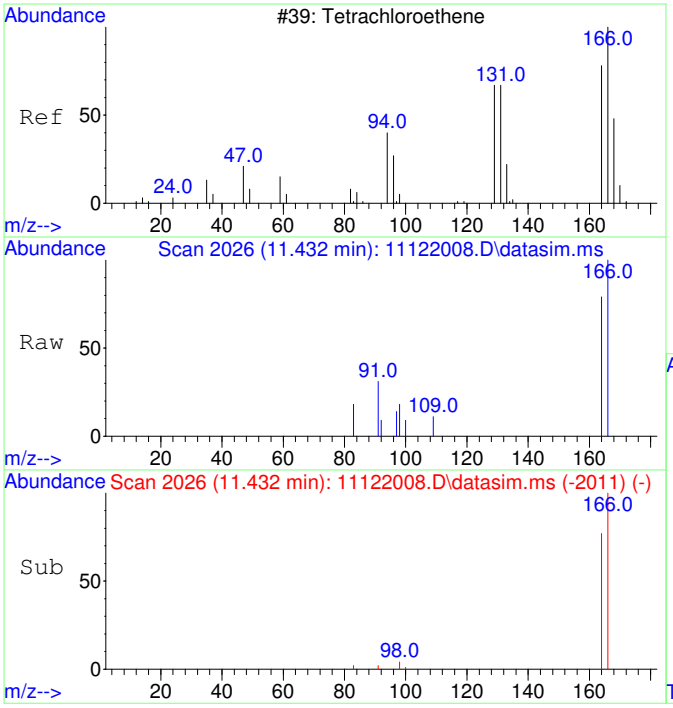


#14
1,1,2-Trichloroethane
Concen: 43.63 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 1004

Ion	Ratio	Lower	Upper
97	100		
83	87.6	51.2	111.2

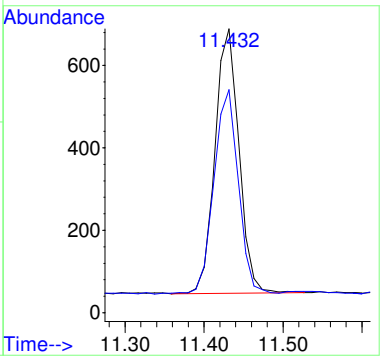


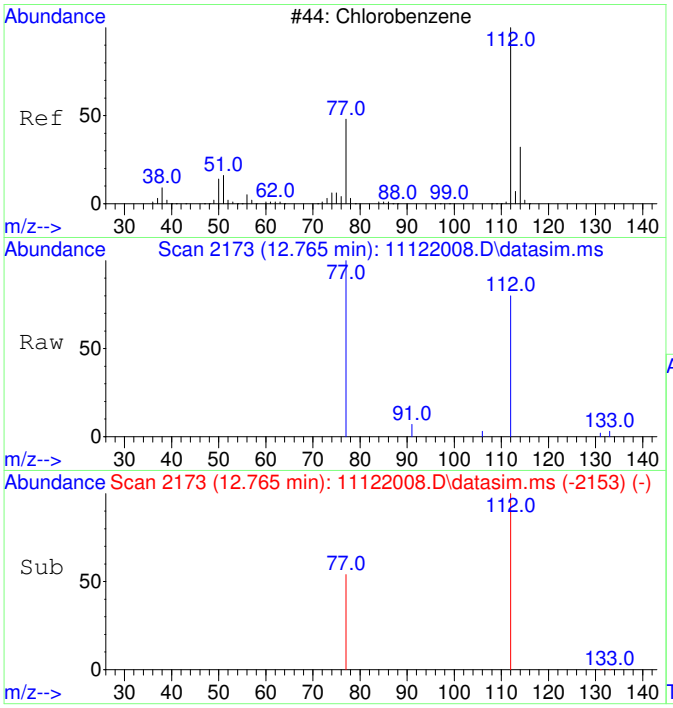


#15
Tetrachloroethene
Concen: 44.14 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:166 Resp: 1349

Ion	Ratio	Lower	Upper
166	100		
164	78.7	47.8	107.8

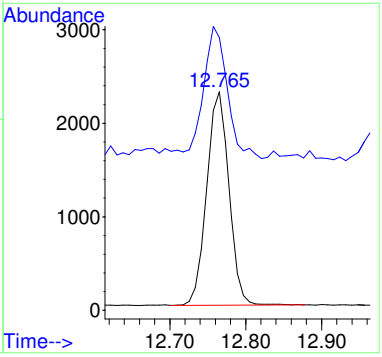


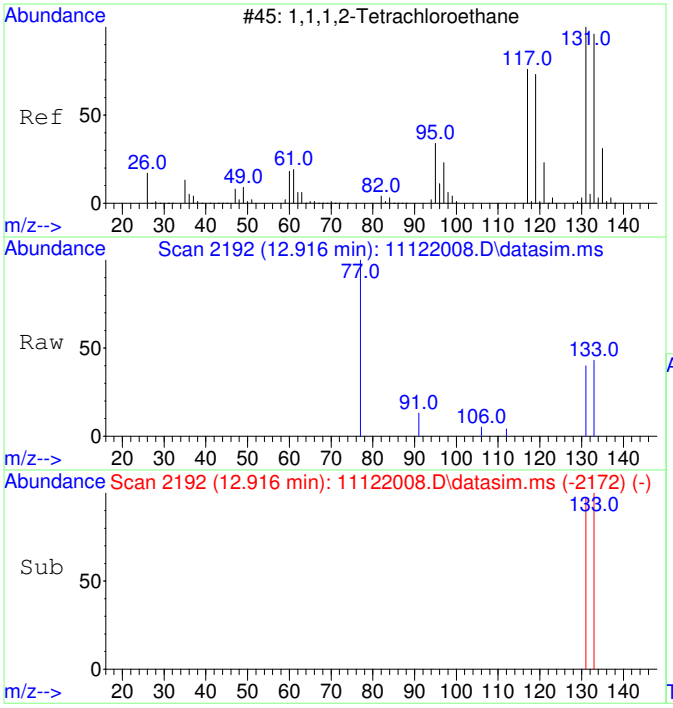


#16
Chlorobenzene
Concen: 61.49 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:112 Resp: 4650

Ion	Ratio	Lower	Upper
112	100		
77	65.8	23.6	83.6

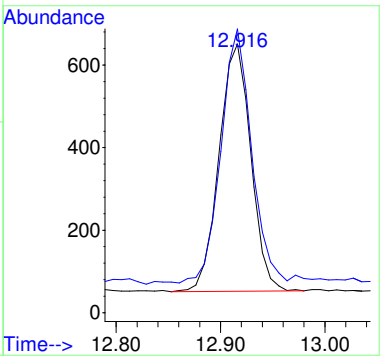


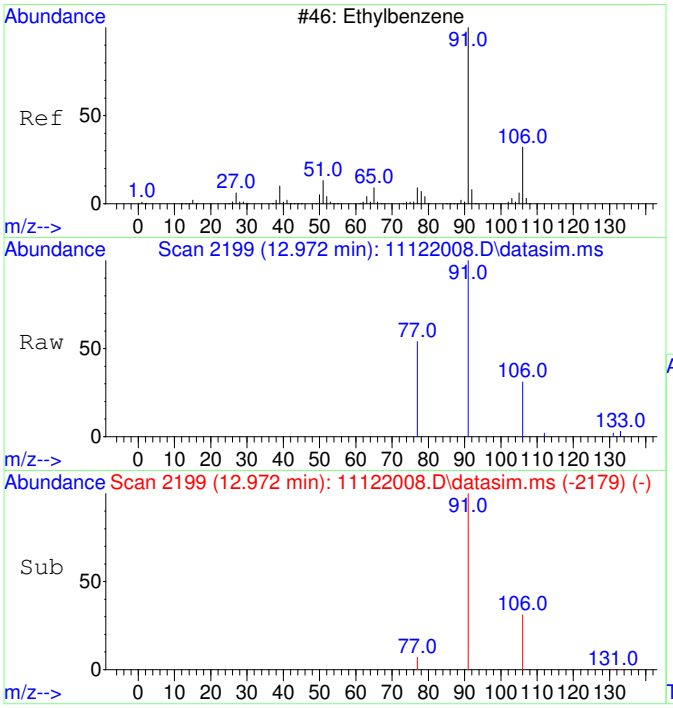


#17
1,1,1,2-Tetrachloroethane
Concen: 46.65 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:131 Resp: 1264

Ion	Ratio	Lower	Upper
131	100		
133	100.9	66.3	126.3

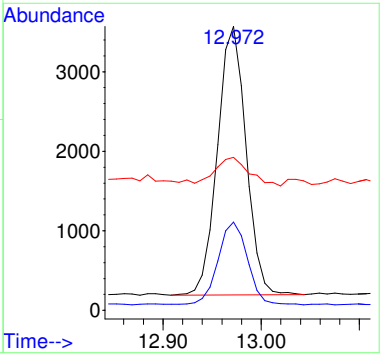


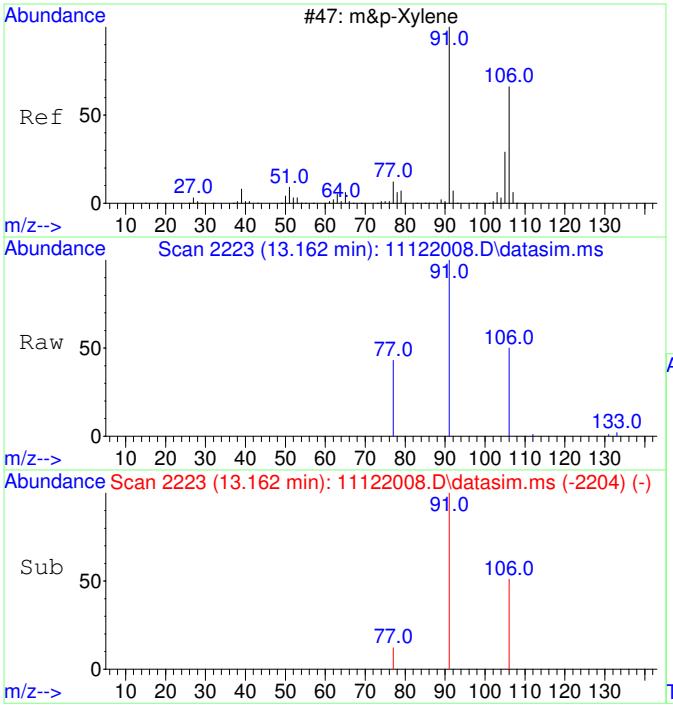


#18
Ethylbenzene
Concen: 52.91 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 6801

Ion	Ratio	Lower	Upper
91	100		
106	31.4	3.0	63.0
77	13.2	0.0	38.2

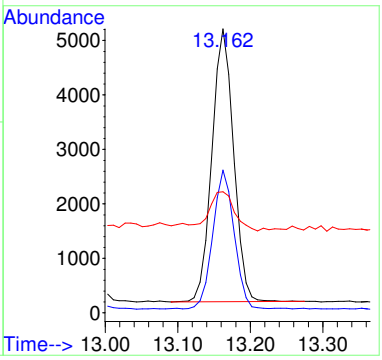


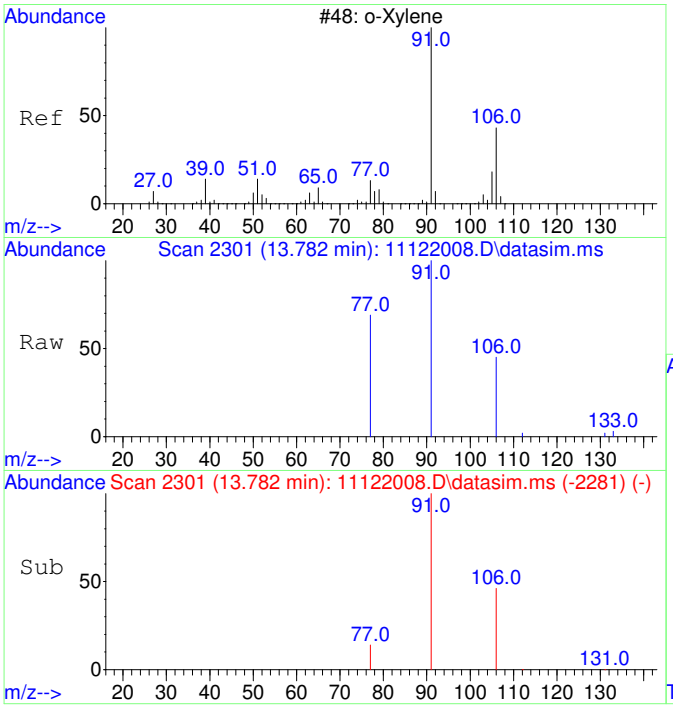


#19
m&p-Xylene
Concen: 103.68 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 10416

Ion	Ratio	Lower	Upper
91	100		
106	49.8	22.2	82.2
77	17.0	0.0	42.4

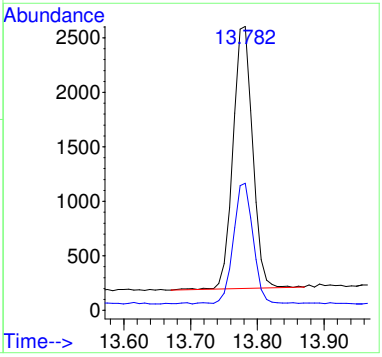


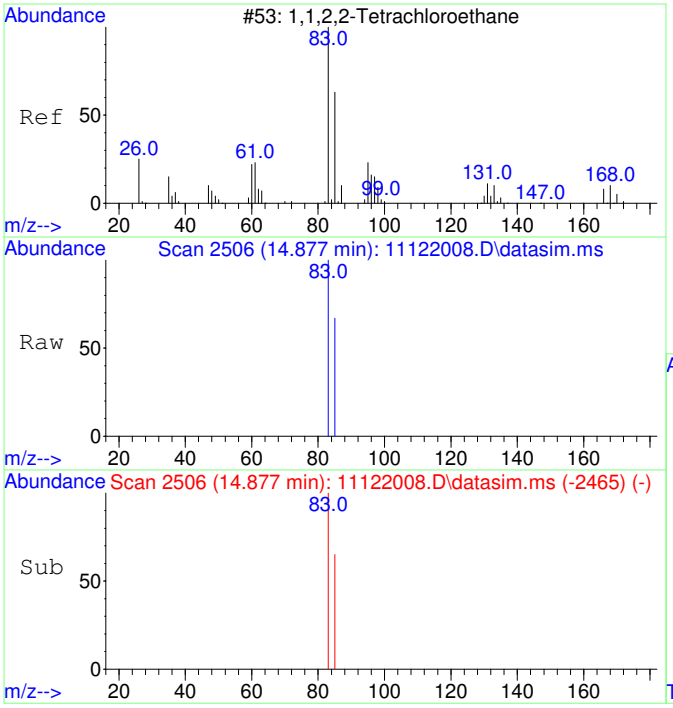


#20
o-Xylene
Concen: 45.76 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 4912

Ion	Ratio	Lower	Upper
91	100		
106	45.9	19.2	79.2

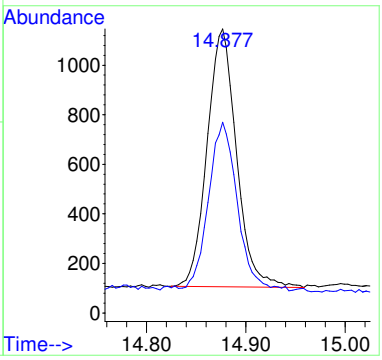


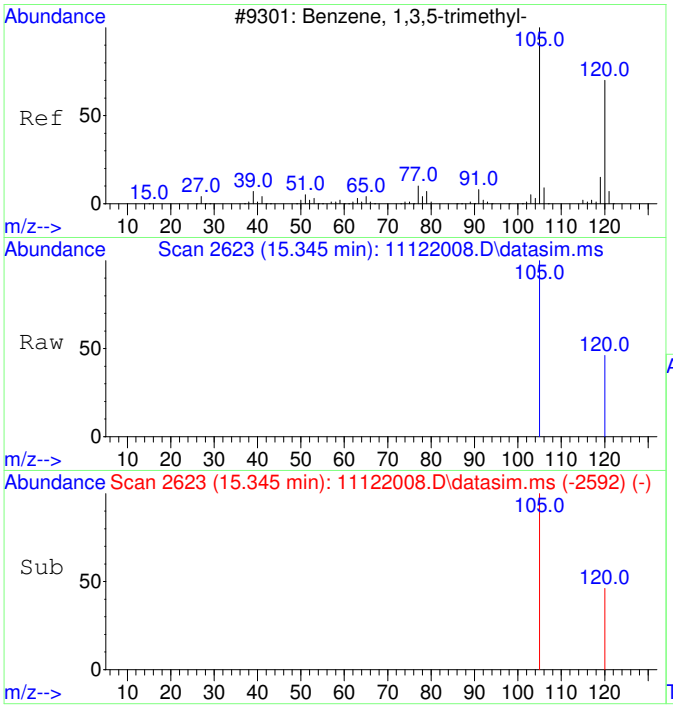


#21
1,1,2,2-Tetrachloroethane
Concen: 45.03 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. 0.004 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 2142

Ion	Ratio	Lower	Upper
83	100		
85	64.3	34.8	94.8

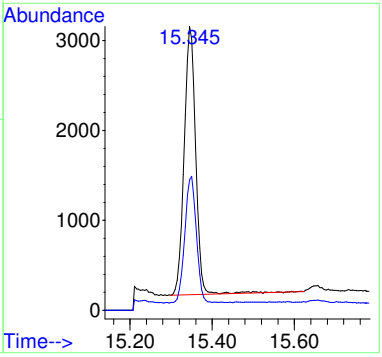


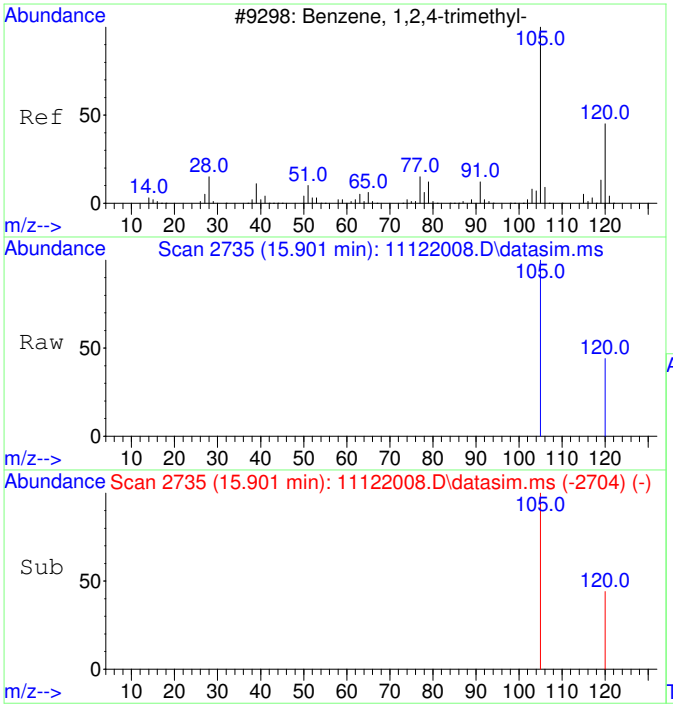


#22
1,3,5-Trimethylbenzene
Concen: 50.66 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 5787

Ion	Ratio	Lower	Upper
105	100		
120	46.4	21.1	81.1

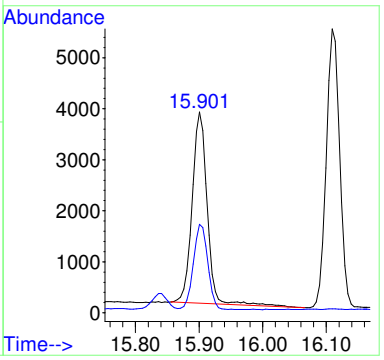


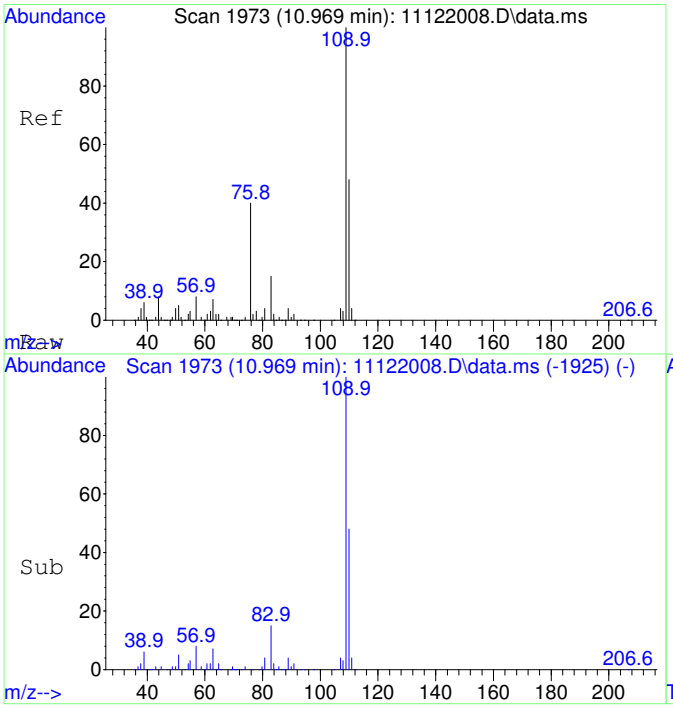


#23
1,2,4-Trimethylbenzene
Concen: 51.64 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 6128

Ion	Ratio	Lower	Upper
105	100		
120	41.9	17.2	77.2

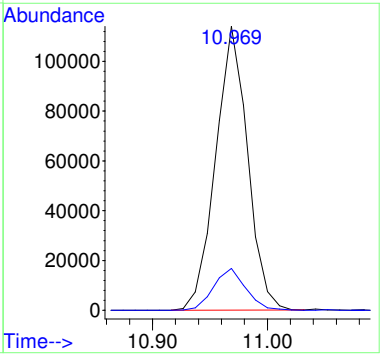


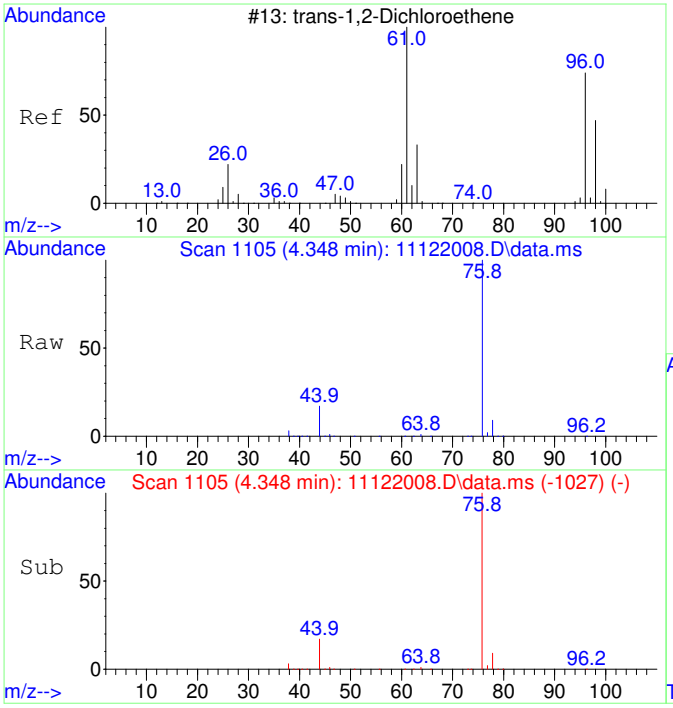


#25
2-Fluorotoluene SCAN
Concen: 5342.39 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:109 Resp: 220361

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	43.8

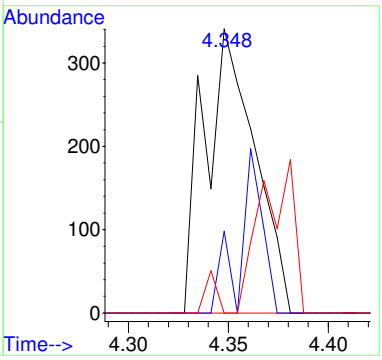


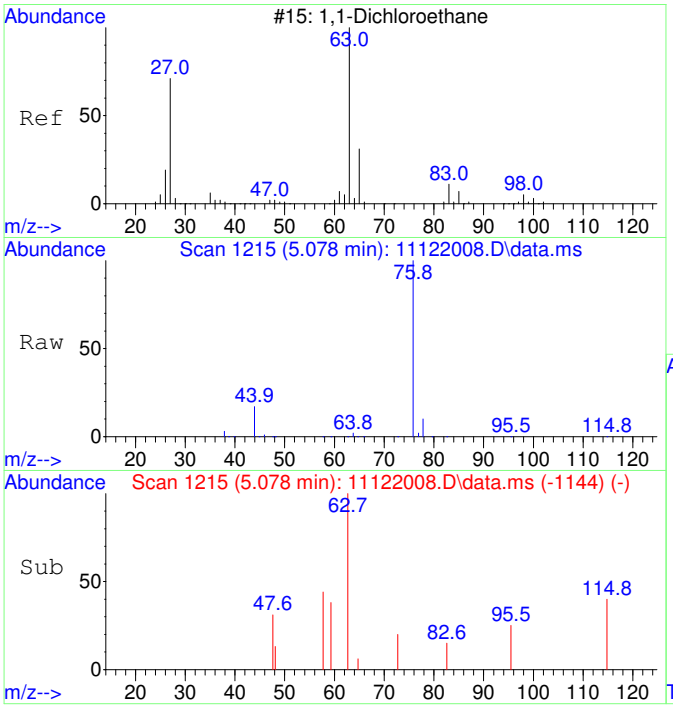


#27
trans-1,2-Dichloroethene SCAN
Concen: 55.63 ug/L
RT: 4.348 min Scan# 1105
Delta R.T. -0.053 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 603

Ion	Ratio	Lower	Upper
61	100		
96	26.2	49.0	109.0#
98	0.0	20.5	80.5#

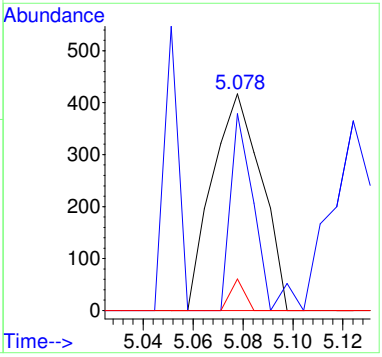


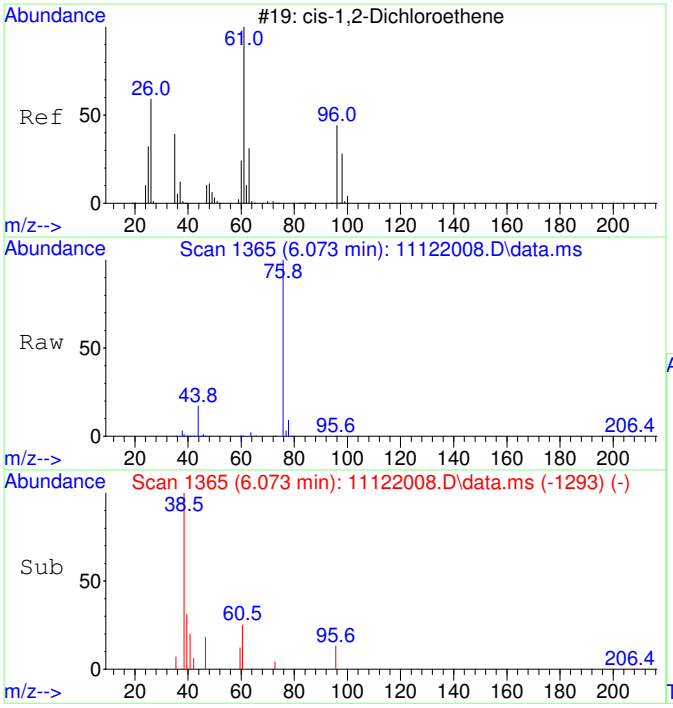


#28
1,1-Dichloroethane SCAN
Concen: 45.60 ug/L
RT: 5.078 min Scan# 1215
Delta R.T. -0.027 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 63 Resp: 572

Ion	Ratio	Lower	Upper
63	100		
65	44.4	1.3	61.3
83	0.0	0.0	45.9

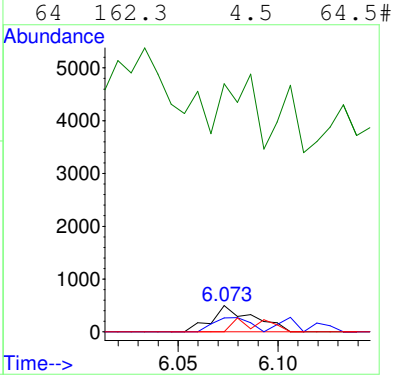


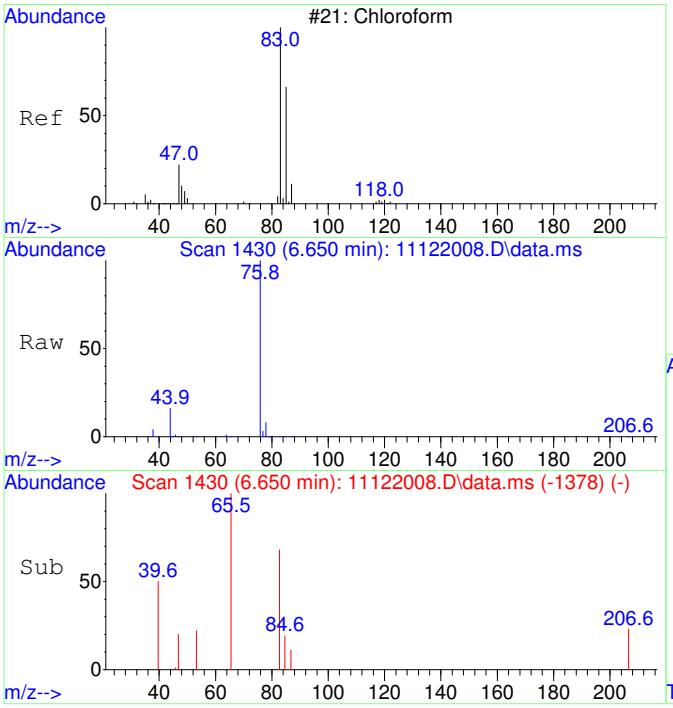


#29
cis-1,2-Dichloroethene SCAN
Concen: 53.94 ug/L
RT: 6.073 min Scan# 1365
Delta R.T. -0.020 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 61 Resp: 725

Ion	Ratio	Lower	Upper
61	100		
96	46.8	39.9	99.9
98	37.5	13.5	73.5
64	162.3	4.5	64.5#

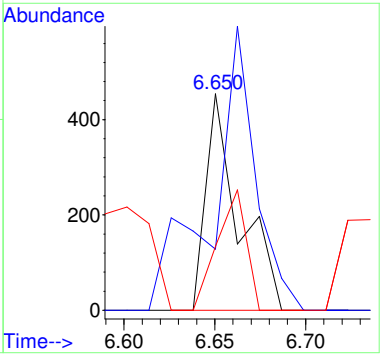


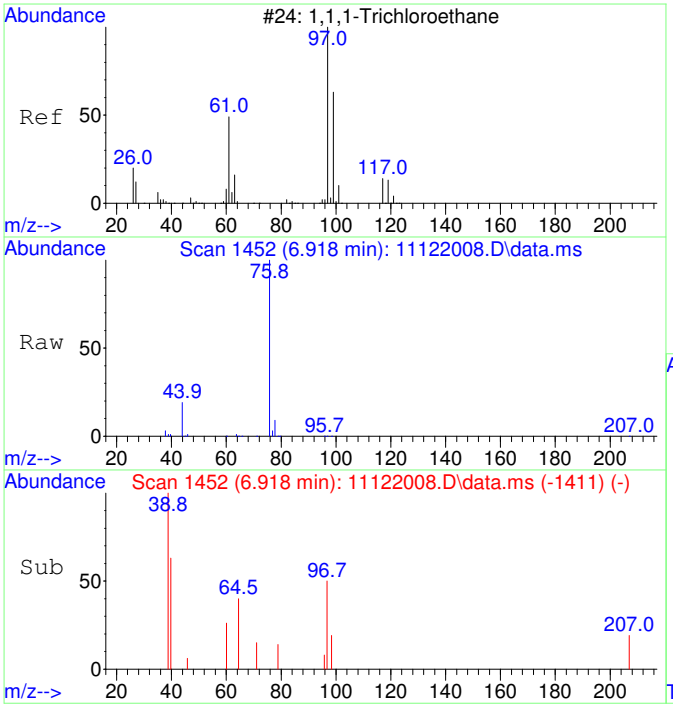


#30
Chloroform SCAN
Concen: 39.58 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 577

Ion	Ratio	Lower	Upper
83	100		
85	172.4	34.6	94.6#
47	48.9	0.0	53.4

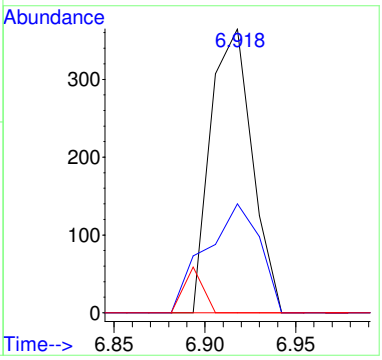


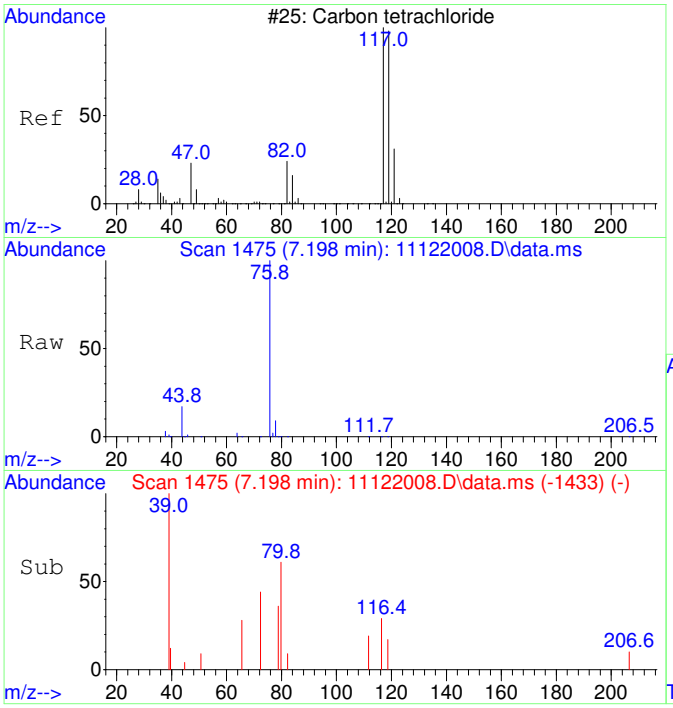


#31
1,1,1-Trichloroethane SCAN
Concen: 43.81 ug/L
RT: 6.918 min Scan# 1452
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 582

Ion	Ratio	Lower	Upper
97	100		
99	50.0	43.6	103.6
61	0.0	18.0	78.0#

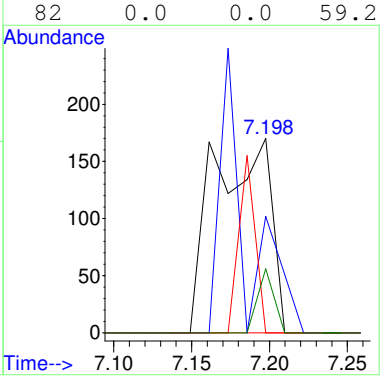


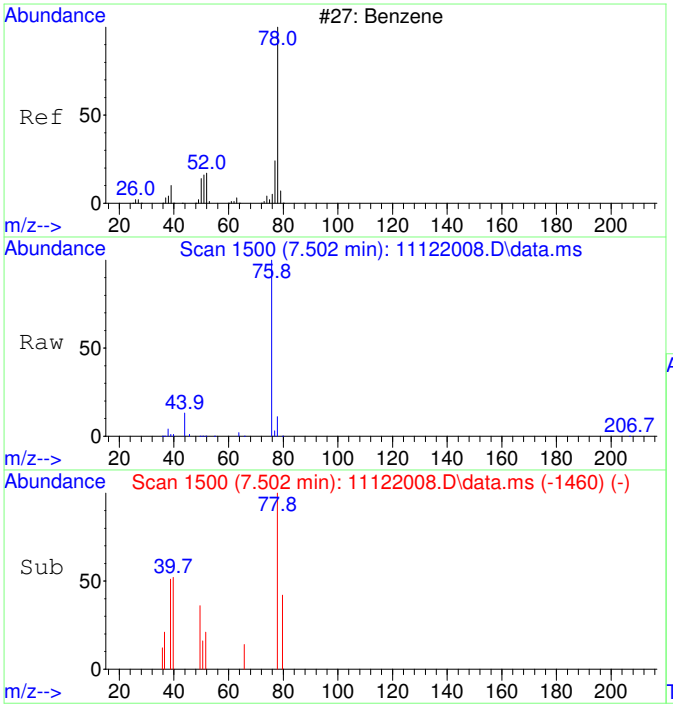


#32
Carbon tetrachloride SCAN
Concen: 31.25 ug/L
RT: 7.198 min Scan# 1475
Delta R.T. 0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:117 Resp: 433

Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.5	135.5#
121	26.1	0.0	58.8
82	0.0	0.0	59.2

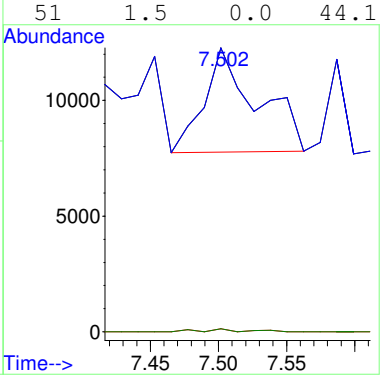


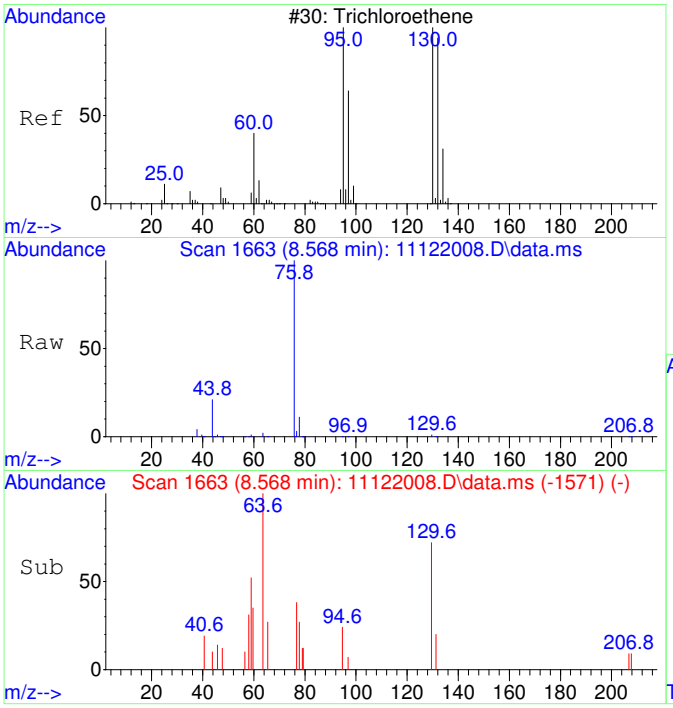


#33
Benzene SCAN
Concen: 332.39 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 78 Resp: 12158

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	1.5	0.0	47.9
51	1.5	0.0	44.1

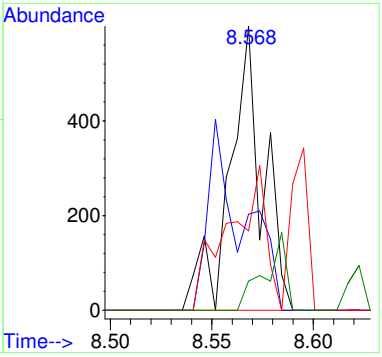


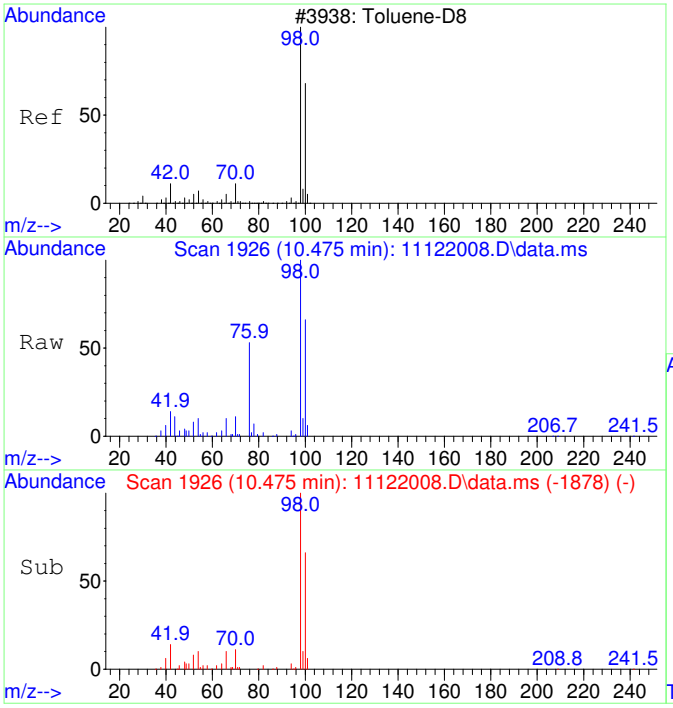


#35
Trichloroethene SCAN
Concen: 67.45 ug/L
RT: 8.568 min Scan# 1663
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:130 Resp: 678

Ion	Ratio	Lower	Upper
130	100		
95	0.0	60.5	120.5#
132	58.0	59.6	119.6#
97	0.0	28.2	88.2#

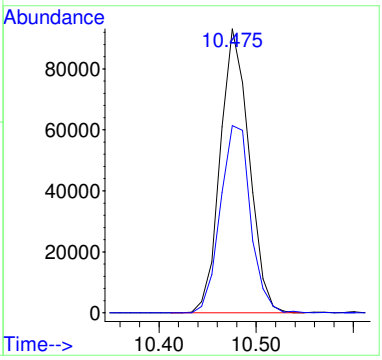


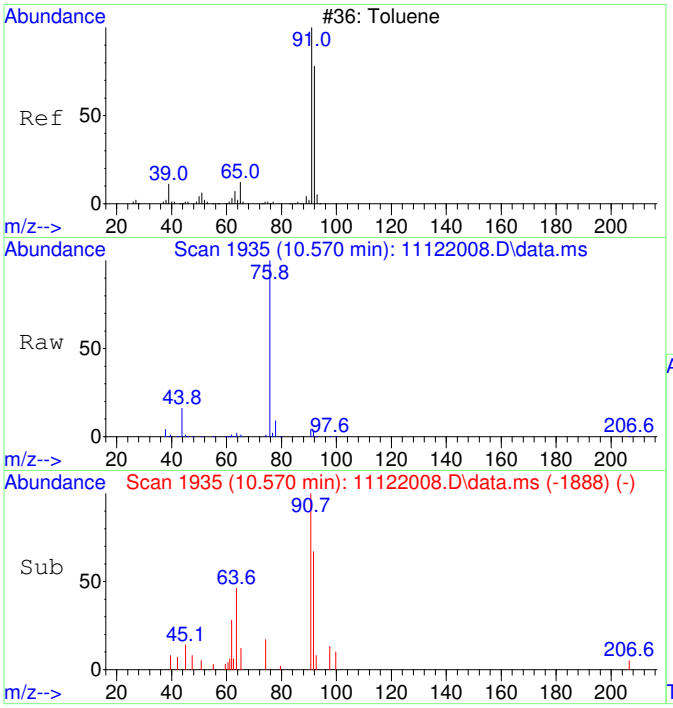


#36
Toluene-d8 SCAN
Concen: 4739.46 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 98 Resp: 191185

Ion	Ratio	Lower	Upper
98	100		
100	69.1	40.0	100.0

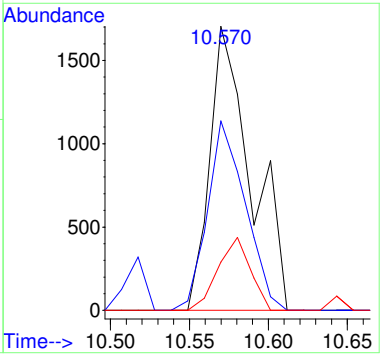


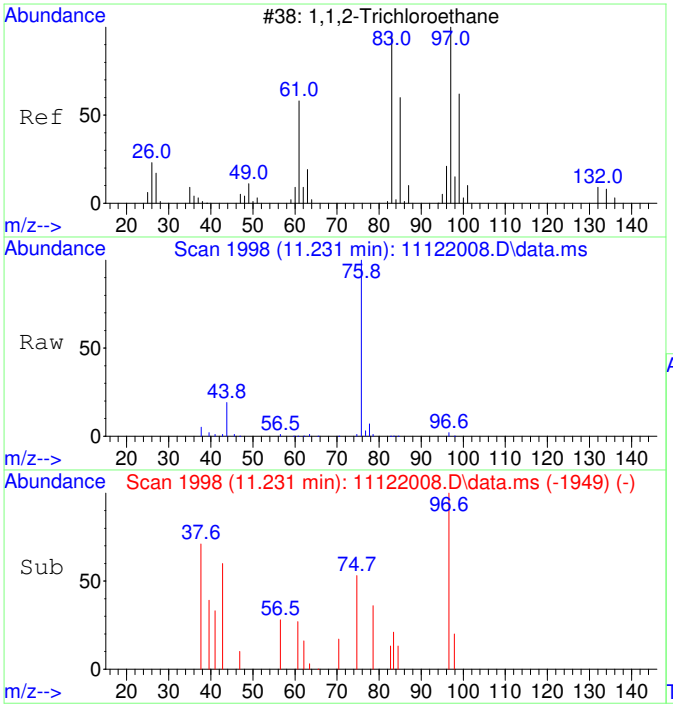


#37
Toluene SCAN
Concen: 60.20 ug/L
RT: 10.570 min Scan# 1935
Delta R.T. -0.011 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 3110

Ion	Ratio	Lower	Upper
91	100		
92	61.1	28.3	88.3
65	20.1	0.0	41.0

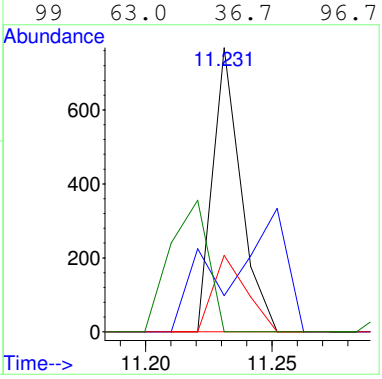


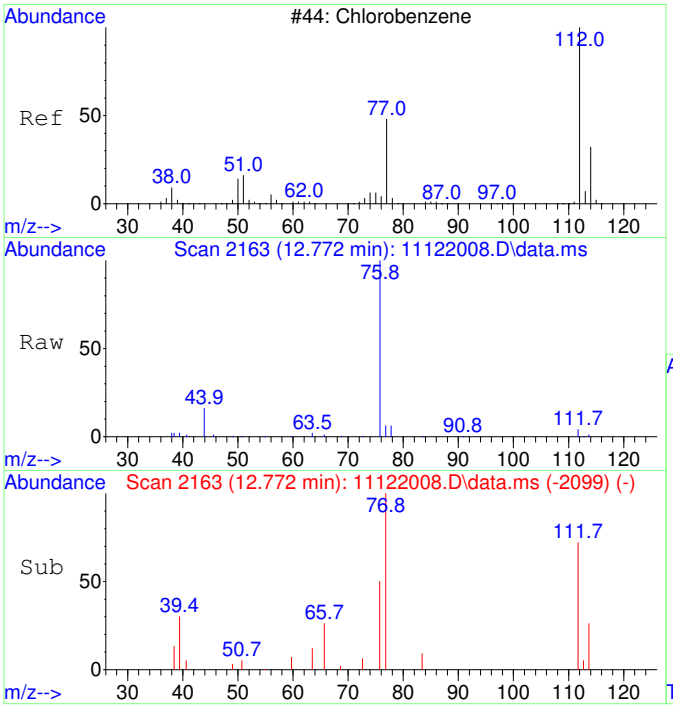


#38
1,1,2-Trichloroethane SCAN
Concen: 51.31 ug/L
RT: 11.231 min Scan# 1998
Delta R.T. 0.010 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 97 Resp: 595

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	31.9	32.1	92.1#
99	63.0	36.7	96.7

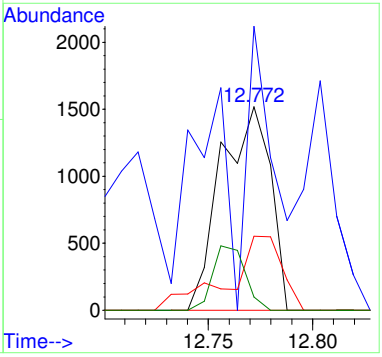


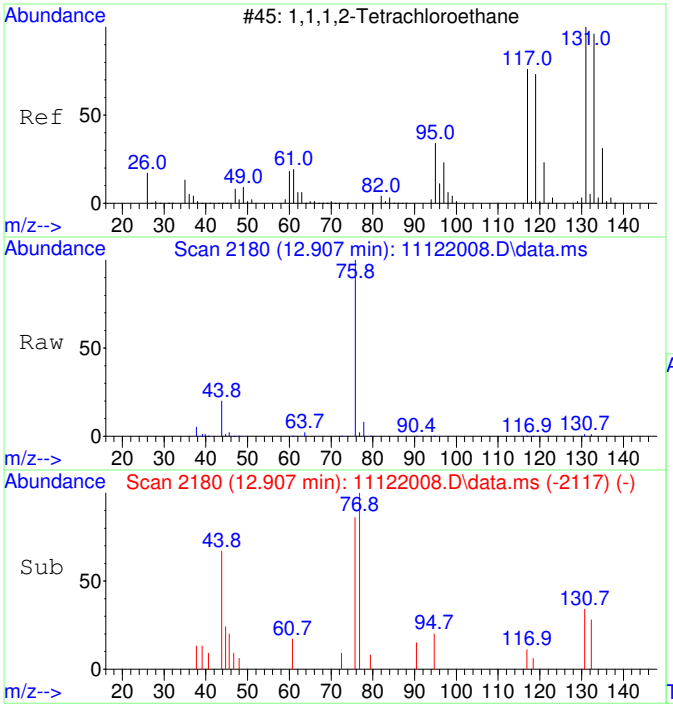


#40
Chlorobenzene SCAN
Concen: 71.19 ug/L
RT: 12.772 min Scan# 2163
Delta R.T. 0.008 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:112 Resp: 2513

Ion	Ratio	Lower	Upper
112	100		
77	55.4	28.2	88.2
114	39.6	2.3	62.3
51	0.0	0.0	50.1

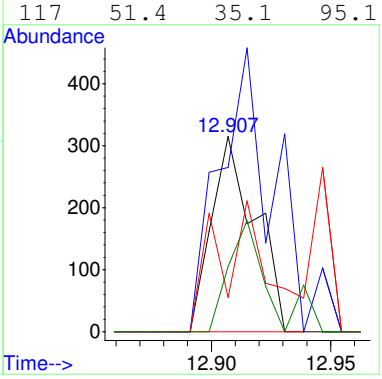


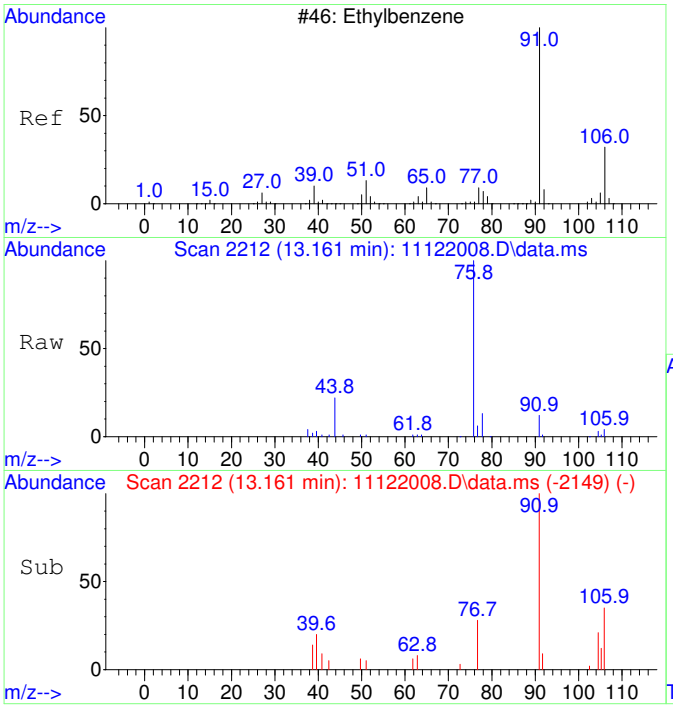


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 30.70 ug/L
RT: 12.907 min Scan# 2180
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:131 Resp: 401

Ion	Ratio	Lower	Upper
131	100		
133	183.5	66.9	126.9#
119	59.1	40.4	100.4
117	51.4	35.1	95.1

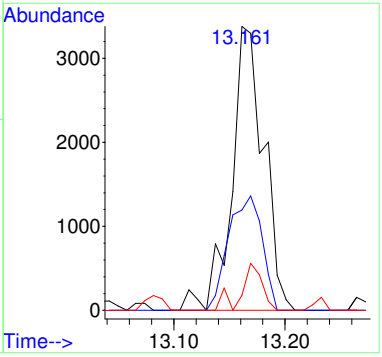


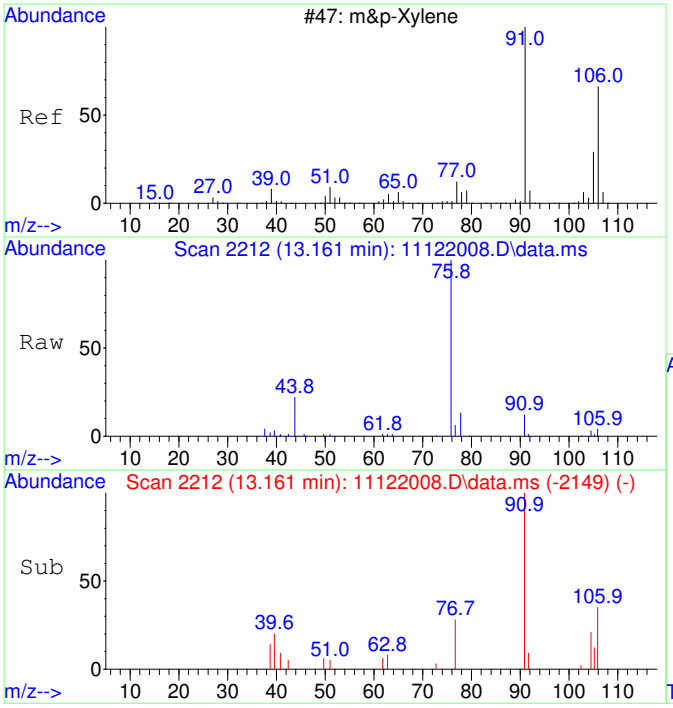


#42
Ethylbenzene SCAN
Concen: 71.99 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 6775

Ion	Ratio	Lower	Upper
91	100		
106	42.4	23.1	83.1
51	10.8	0.0	40.1

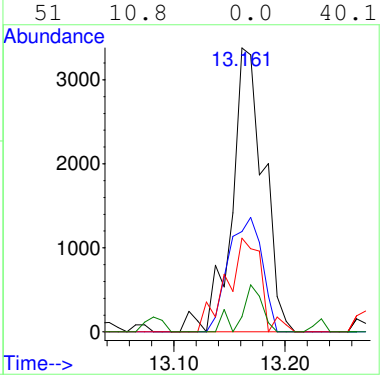


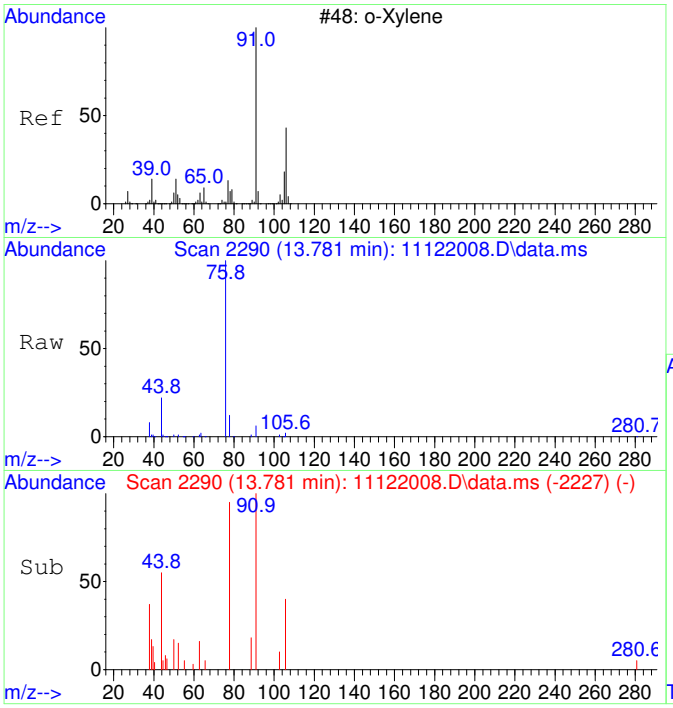


#43
m&p-Xylene SCAN
Concen: 71.99 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 6775

Ion	Ratio	Lower	Upper
91	100		
106	42.4	23.1	83.1
105	35.3	0.0	54.7
51	10.8	0.0	40.1

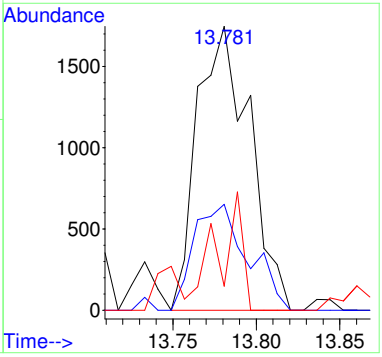


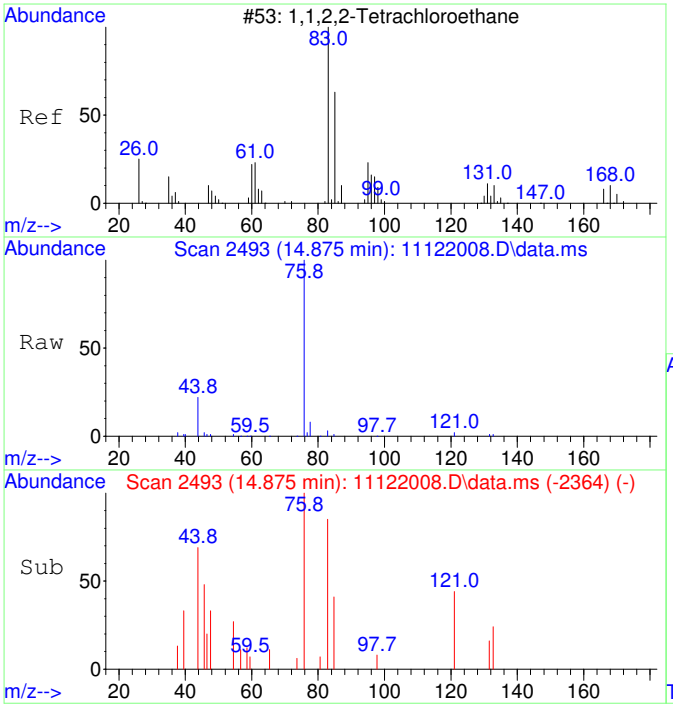


#44
o-Xylene SCAN
Concen: 75.99 ug/L
RT: 13.781 min Scan# 2290
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 91 Resp: 3828

Ion	Ratio	Lower	Upper
91	100		
106	38.4	18.0	78.0
105	17.2	0.0	56.6

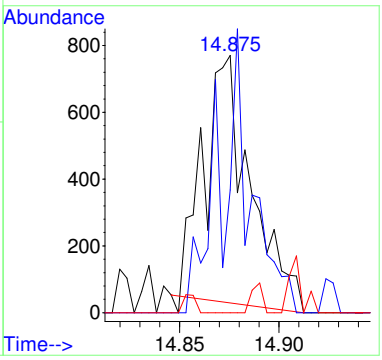


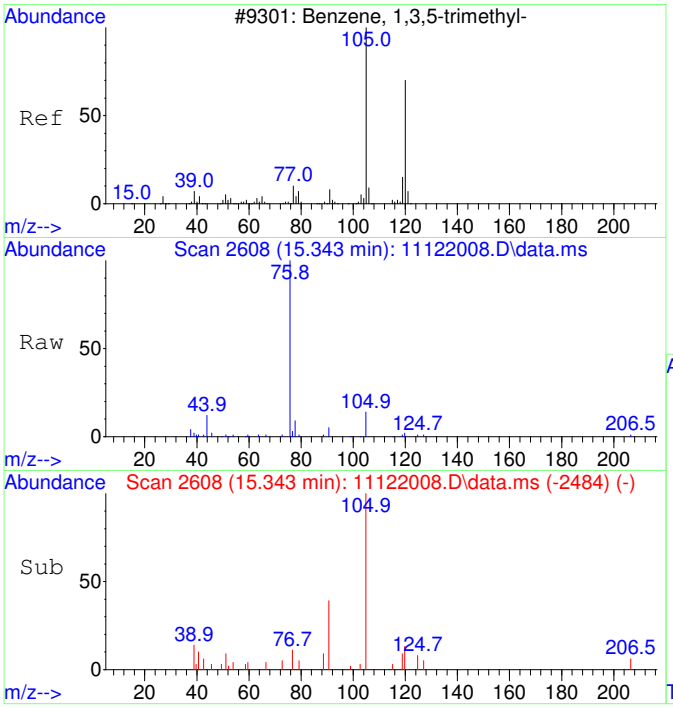


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 48.89 ug/L
RT: 14.875 min Scan# 2493
Delta R.T. 0.004 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion: 83 Resp: 1201

Ion	Ratio	Lower	Upper
83	100		
85	36.7	35.9	95.9
95	0.0	0.0	47.4

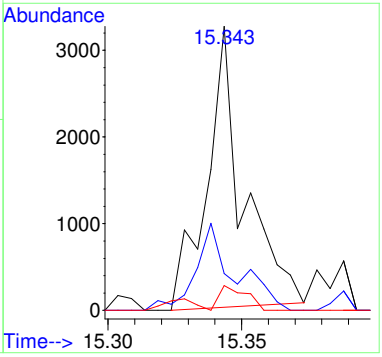


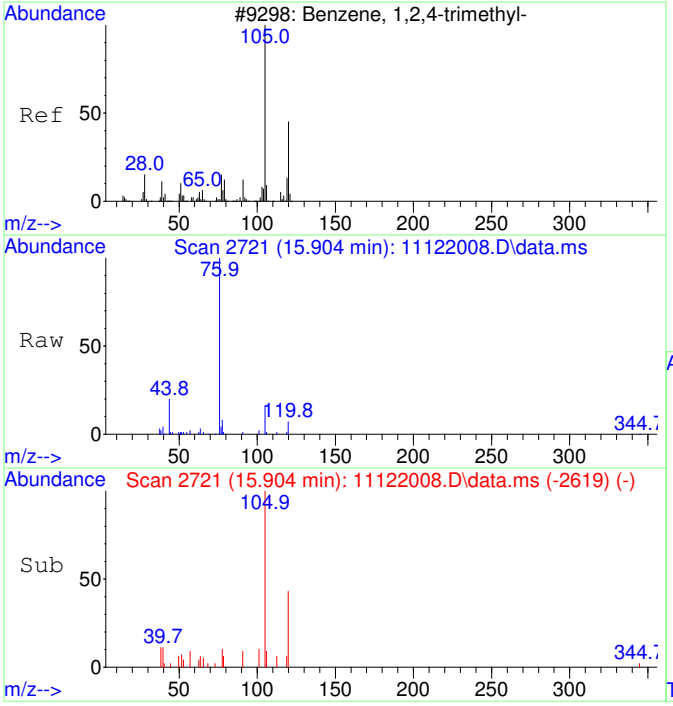


#46
1,3,5-Trimethylbenzene SCAN
Concen: 58.09 ug/L
RT: 15.343 min Scan# 2608
Delta R.T. -0.000 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 3084

Ion	Ratio	Lower	Upper
105	100		
120	33.4	18.3	78.3
119	6.6	0.0	43.1

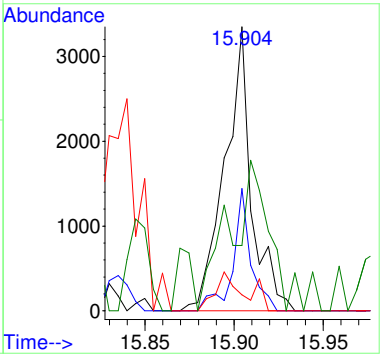




#47
1,2,4-Trimethylbenzene SCAN
Concen: 64.37 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122008.D
Acq: 12 Nov 2020 11:14

Tgt Ion:105 Resp: 3497

Ion	Ratio	Lower	Upper
105	100		
120	28.9	16.9	76.9
119	0.0	0.0	41.9
77	24.9	0.0	42.3



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 20316A
Client: California Site Cleanup Section 3
Project: MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID: AG5975CV
Calibration: 2008017
Sequence: S20K052

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S20K052-CRL1	1,1-Dichloroethene	50.0	51.2	102	ug/L	60 - 140
	trans-1,2-Dichloroethene	50.0	52.4	105	ug/L	60 - 140
	1,1-Dichloroethane	50.0	49.8	100	ug/L	60 - 140
	cis-1,2-Dichloroethene	50.0	51.5	103	ug/L	60 - 140
	Chloroform	50.0	47.0	94	ug/L	60 - 140
	Trichloroethene	50.0	46.7	93	ug/L	60 - 140
	Tetrachloroethene	50.0	48.9	98	ug/L	60 - 140
	Toluene-d8	50.0	50.1	100	ug/L	60 - 140

QLS REPORT

Instrument Name: AG5975C
Sample Name: S20K052-CRL1
Misc Info: 2030073 0.05 mg/L
Date Acquired: 11/12/20 9:39
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	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.090	50.0	51.25	102%	60	140	pass
3)	trans-1,2-Dichloroethene	4.396	50.0	52.40	105%	60	140	pass
4)	1,1-Dichloroethane	5.099	50.0	49.85	100%	60	140	pass
5)	cis-1,2-Dichloroethene	6.094	50.0	51.49	103%	60	140	pass
6)	Chloroform	6.664	50.0	47.05	94%	60	140	pass
7)	1,1,1-Trichloroethane	6.919	50.0	44.93	90%	60	140	pass
8)	Carbon tetrachloride	7.187	50.0	44.17	88%	60	140	pass
10)	1,2-Dichloroethane	7.552	50.0	47.61	95%	60	140	pass
11)	Trichloroethene	8.569	50.0	46.73	93%	60	140	pass
12)	Toluene-d8	10.477	50.0	50.09	100%	60	140	pass
13)	Toluene	10.571	50.0	50.78	102%	60	140	pass
14)	1,1,2-Trichloroethane	11.222	50.0	50.61	101%	60	140	pass
15)	Tetrachloroethene	11.421	50.0	48.90	98%	60	140	pass
16)	Chlorobenzene	12.757	50.0	52.70	105%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.908	50.0	51.58	103%	60	140	pass
18)	Ethylbenzene	12.964	50.0	54.19	108%	60	140	pass
19)	m&p-Xylene	13.162	100.0	107.56	108%	60	140	pass
20)	o-Xylene	13.774	50.0	52.85	106%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.873	50.0	54.48	109%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.345	50.0	55.86	112%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.896	50.0	57.28	115%	60	140	pass
24)	Naphthalene	17.903	50.0	52.44	105%	60	140	pass

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122004.D
Acq On : 12 Nov 2020 9:39
InstName : AG5975C
Operator : TD
Sample : S20K052-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 12 09:58:30 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

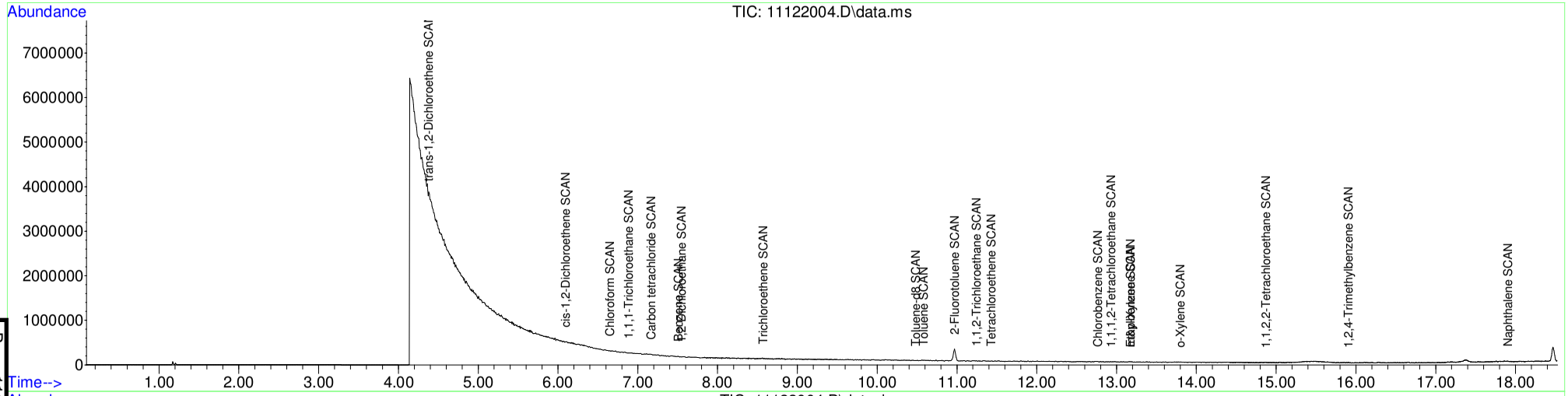
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	406587	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	3987	50.09	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 1.00%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.093	61	1240	76.38	ug/L #	49
3] trans-1,2-Dichloroethene	4.369	61	983	52.40	ug/L	66
4] 1,1-Dichloroethane	5.079	63	1164	49.85	ug/L	67
5] cis-1,2-Dichloroethene	6.081	61	1269	51.49	ug/L	98
6] Chloroform	6.651	83	1187	47.05	ug/L	99
7] 1,1,1-Trichloroethane	6.907	97	1231	44.93	ug/L	99
8] Carbon tetrachloride	7.174	117	1139	44.17	ug/L	98
9] Benzene	7.503	78	3775	54.65	ug/L #	6
10] 1,2-Dichloroethane	7.539	62	1174	47.61	ug/L #	22
11] Trichloroethene	8.564	130	972	46.73	ug/L	90
13] Toluene	10.571	91	5153	50.78	ug/L	99
14] 1,1,2-Trichloroethane	11.222	97	1119	50.61	ug/L	97
15] Tetrachloroethene	11.432	166	1436	48.90	ug/L	98
16] Chlorobenzene	12.765	112	3829	52.70	ug/L	75
17] 1,1,1,2-Tetrachloroethane	12.916	131	1343	51.58	ug/L	99
18] Ethylbenzene	12.972	91	6693	54.19	ug/L	95
19] m&p-Xylene	13.162	91	10383	107.56	ug/L	94
20] o-Xylene	13.782	91	5451	52.85	ug/L	95
21] 1,1,2,2-Tetrachloroethane	14.877	83	2490	54.48	ug/L	100
22] 1,3,5-Trimethylbenzene	15.345	105	6132	55.86	ug/L	93
23] 1,2,4-Trimethylbenzene	15.901	105	6531	57.28	ug/L	91
24] Naphthalene	17.902	128	9451	52.44	ug/L	98
25) 2-Fluorotoluene SCAN	10.969	109	207598	5237.78	ug/L	99
27) trans-1,2-Dichloroethe...	4.374	61	276	26.50	ug/L #	43
29) cis-1,2-Dichloroethene...	6.093	61	386	29.89	ug/L #	1
30) Chloroform SCAN	6.650	83	803	57.32	ug/L #	81
31) 1,1,1-Trichloroethane ...	6.881	97	299	23.42	ug/L #	19
32) Carbon tetrachloride SCAN	7.161	117	633	47.54	ug/L #	15
33) Benzene SCAN	7.502	78	8311	236.46	ug/L	94
34) 1,2-Dichloroethane SCAN	7.550	62	782	60.25	ug/L #	40
35) Trichloroethene SCAN	8.573	130	335	34.68	ug/L #	72
36) Toluene-d8 SCAN	10.486	98	2482	64.03	ug/L	87
37) Toluene SCAN	10.580	91	4279	86.20	ug/L	73
38) 1,1,2-Trichloroethane ...	11.241	97	833	74.76	ug/L #	35
39) Tetrachloroethene SCAN	11.430	166	704	59.03	ug/L	89
40) Chlorobenzene SCAN	12.764	112	2266	66.80	ug/L #	78
41) 1,1,1,2-Tetrachloroeth...	12.931	131	652	51.94	ug/L #	10
42) Ethylbenzene SCAN	13.169	91	5494	60.75	ug/L	82
43) m&p-Xylene SCAN	13.169	91	5494	60.75	ug/L	82
44) o-Xylene SCAN	13.796	91	3111	64.27	ug/L	96
45) 1,1,2,2-Tetrachloroeth...	14.872	83	1089	46.14	ug/L	77
47) 1,2,4-Trimethylbenzene...	15.904	105	3455	66.19	ug/L #	79
48) Naphthalene SCAN	17.901	128	5869	74.30	ug/L	92

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122004.D
Acq On : 12 Nov 2020 9:39
InstName : AG5975C
Operator : TD
Sample : S20K052-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 12 09:58:30 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



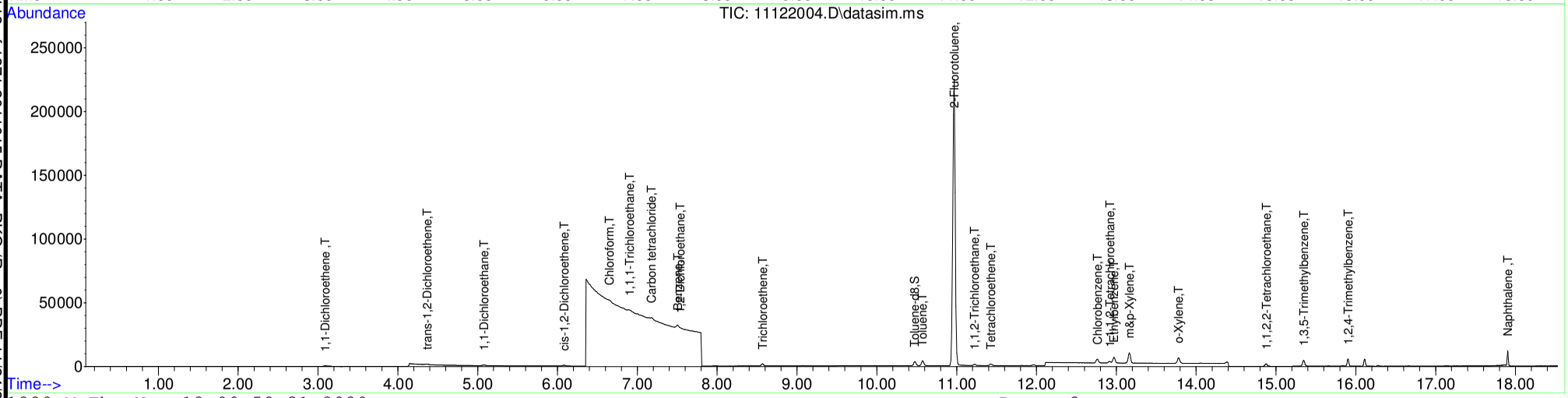
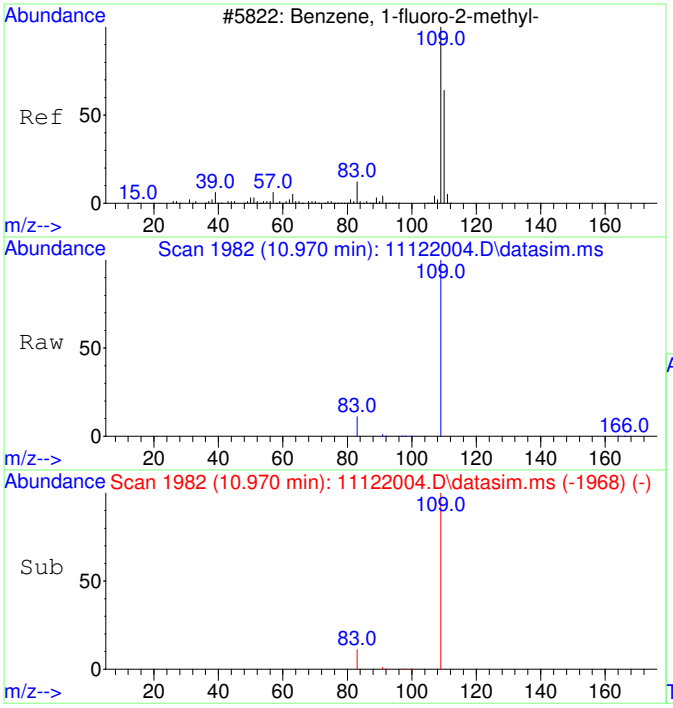


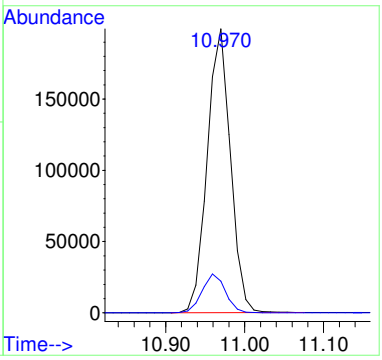
Table of Contents

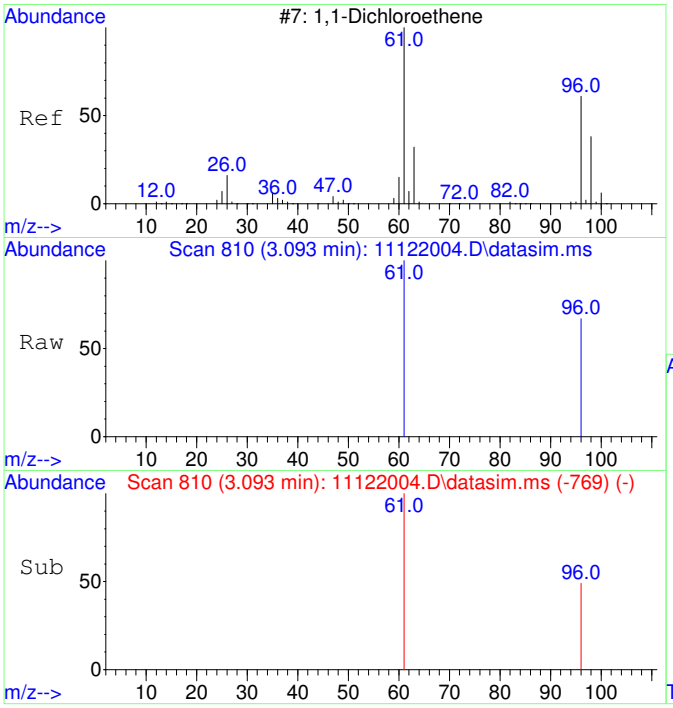


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:109 Resp: 406587

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

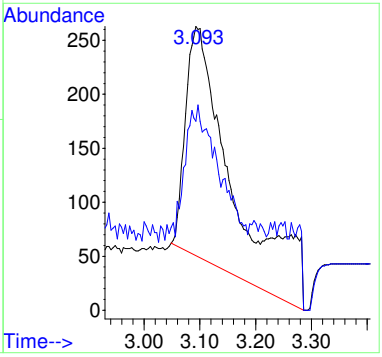




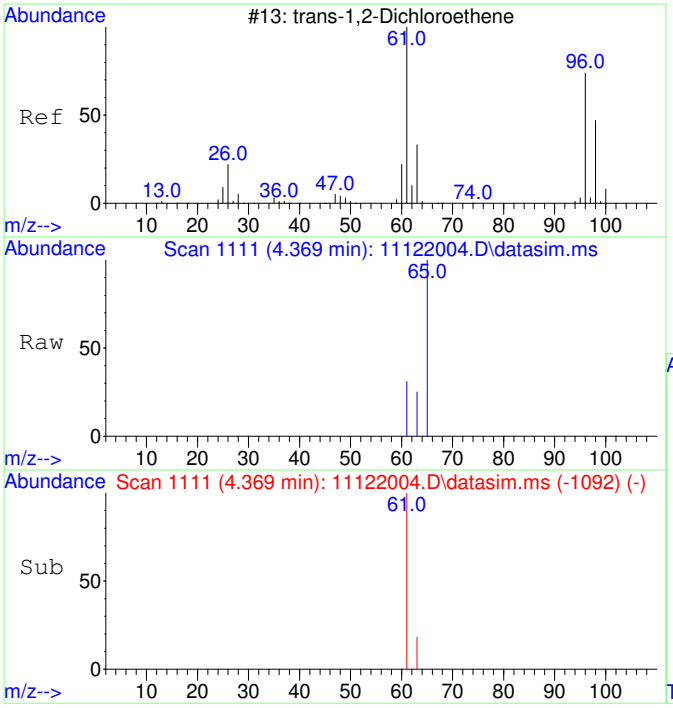
#2
1,1-Dichloroethene
Concen: 76.38 ug/L
RT: 3.093 min Scan# 810
Delta R.T. 0.003 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 1240

Ion	Ratio	Lower	Upper
61	100		
96	26.2	37.2	97.2#



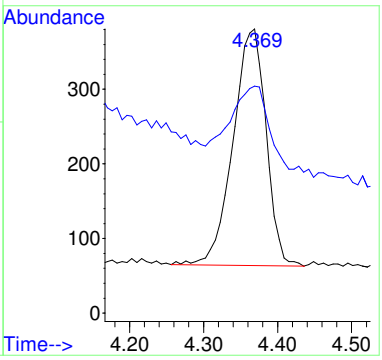
Before MI:
IMPROPER
BASELINE

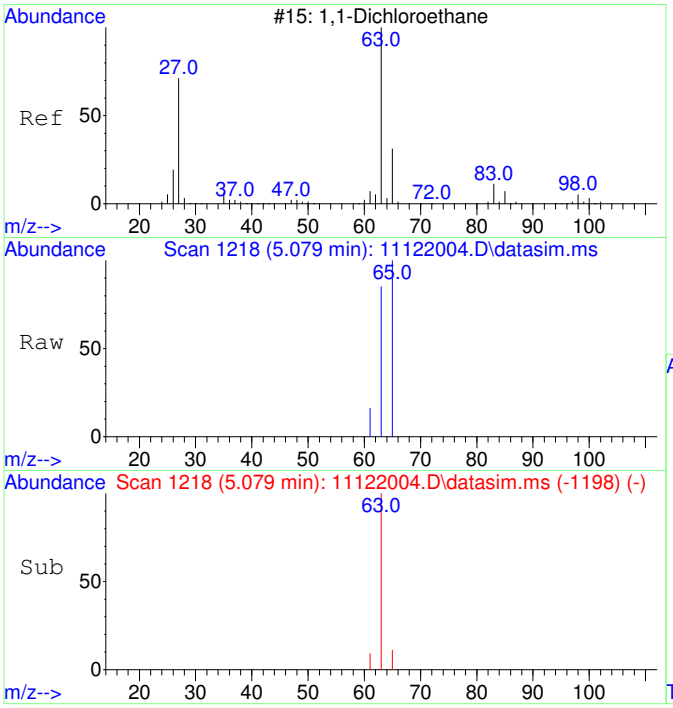


#3
trans-1,2-Dichloroethene
Concen: 52.40 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. -0.027 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 983

Ion	Ratio	Lower	Upper
61	100		
63	51.7	2.4	62.4

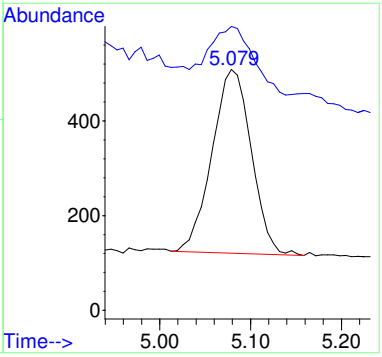


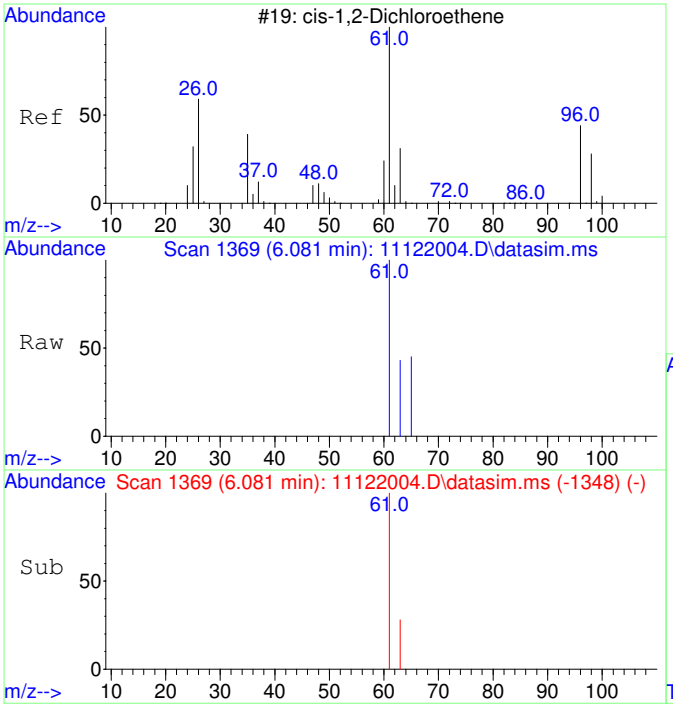


#4
1,1-Dichloroethane
Concen: 49.85 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 63 Resp: 1164

Ion	Ratio	Lower	Upper
63	100		
65	50.0	1.8	61.8

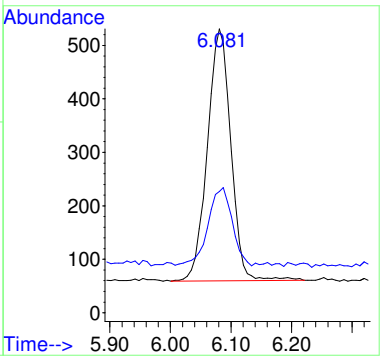


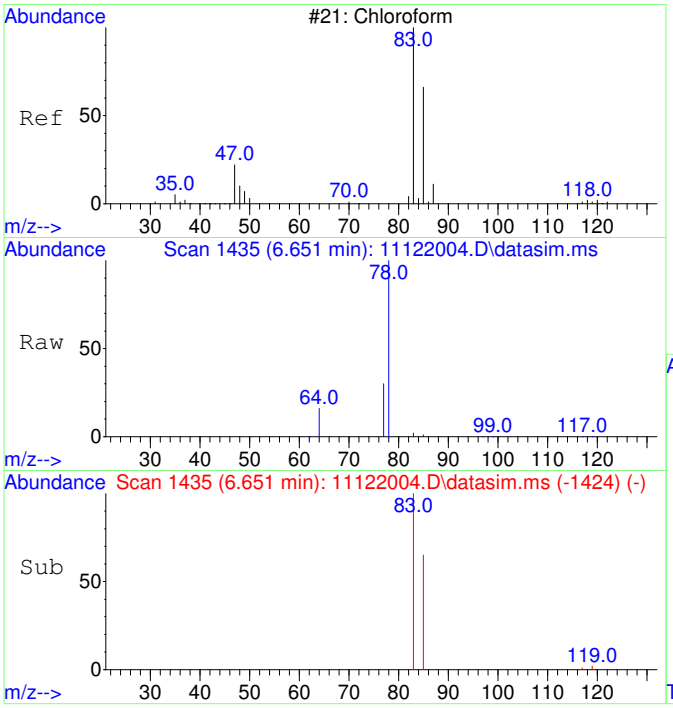


#5
cis-1,2-Dichloroethene
Concen: 51.49 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 1269

Ion	Ratio	Lower	Upper
61	100		
63	31.6	2.5	62.5

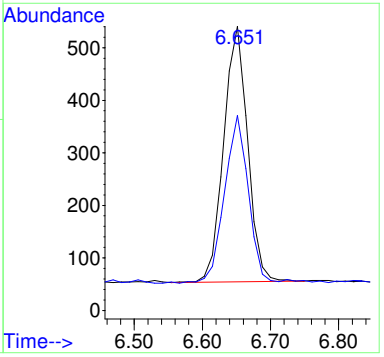


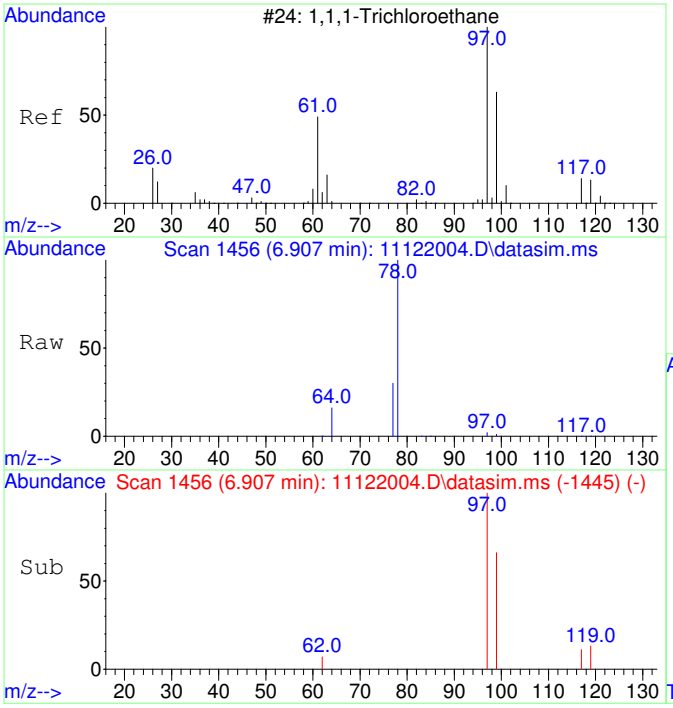


#6
Chloroform
Concen: 47.05 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 1187

Ion	Ratio	Lower	Upper
83	100		
85	64.0	35.1	95.1

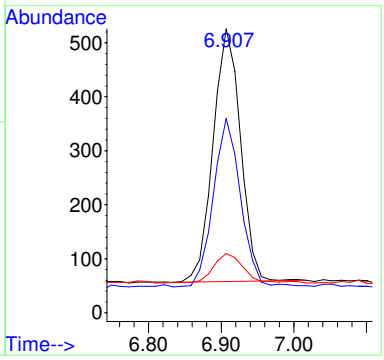


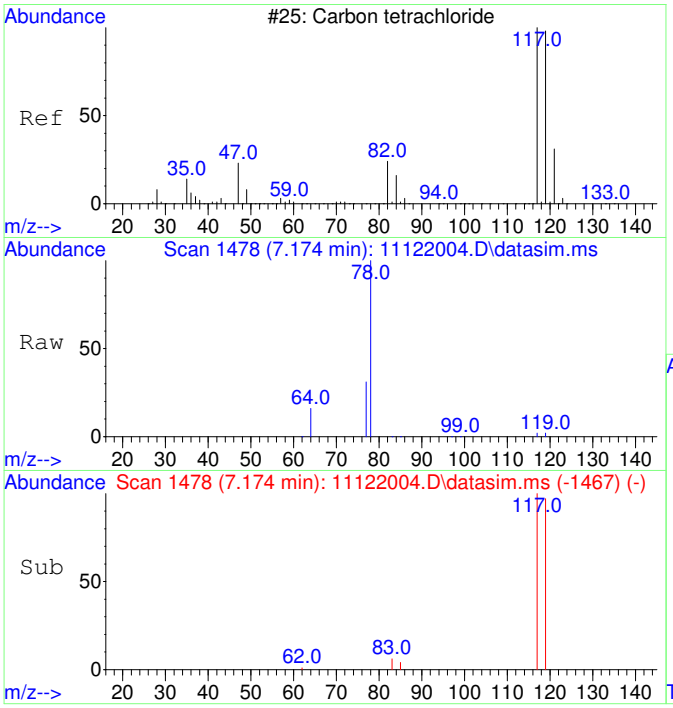


#7
1,1,1-Trichloroethane
Concen: 44.93 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 1231

Ion	Ratio	Lower	Upper
97	100		
99	65.2	34.6	94.6
117	13.0	0.0	43.2

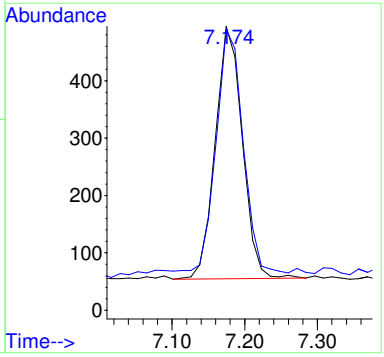


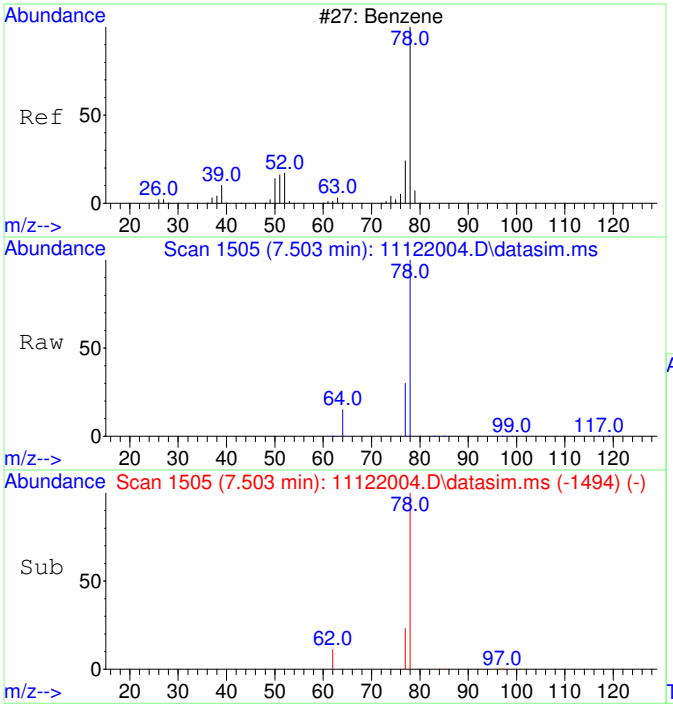


#8
Carbon tetrachloride
Concen: 44.17 ug/L
RT: 7.174 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:117 Resp: 1139

Ion	Ratio	Lower	Upper
117	100		
119	94.6	66.4	126.4

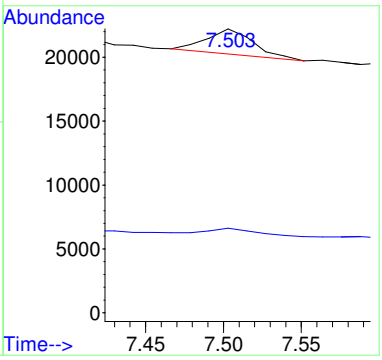


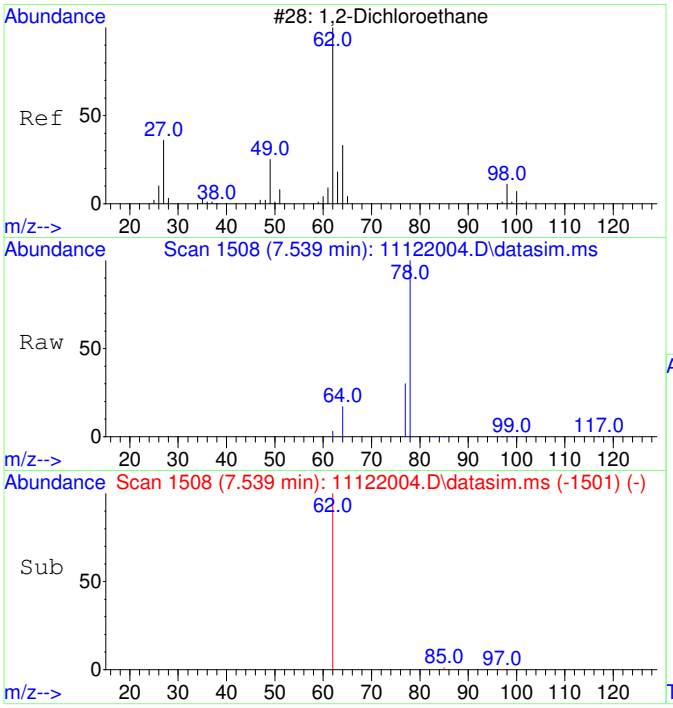


#9
Benzene
Concen: 54.65 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 78 Resp: 3775

Ion	Ratio	Lower	Upper
78	100		
77	68.8	0.0	53.2#

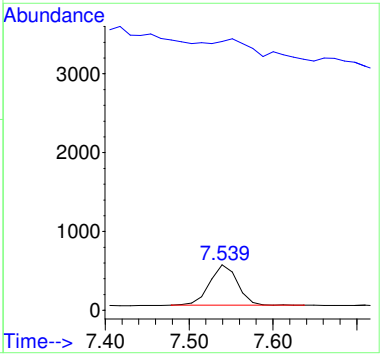


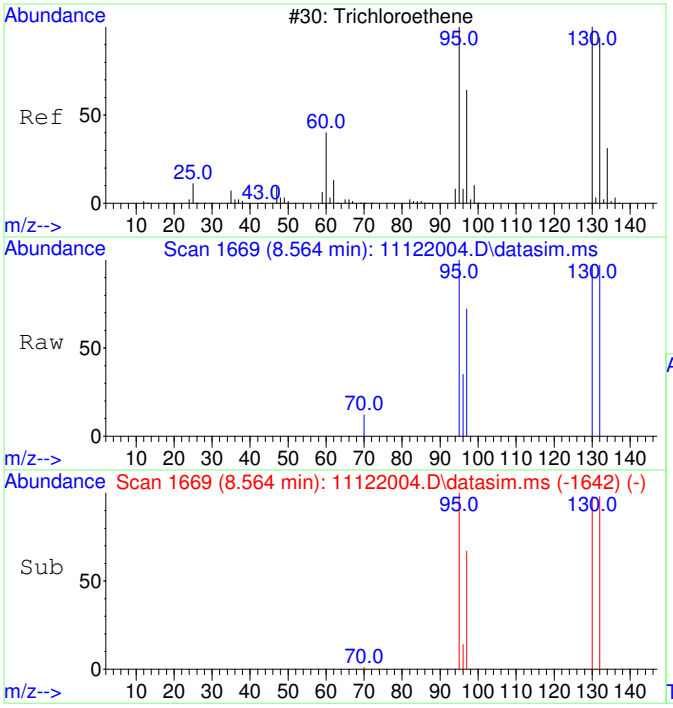


#10
1,2-Dichloroethane
Concen: 47.61 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 62 Resp: 1174

Ion	Ratio	Lower	Upper
62	100		
64	76.2	2.3	62.3#

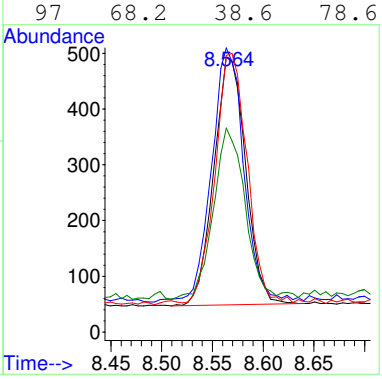


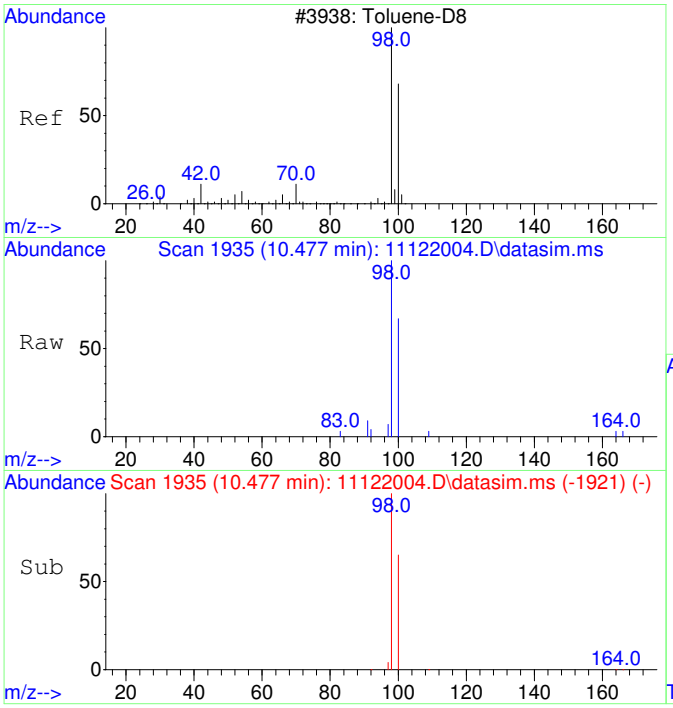


#11
Trichloroethene
Concen: 46.73 ug/L
RT: 8.564 min Scan# 1669
Delta R.T. -0.006 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:130 Resp: 972

Ion	Ratio	Lower	Upper
130	100		
95	103.4	60.7	120.7
132	100.2	76.0	116.0
97	68.2	38.6	78.6

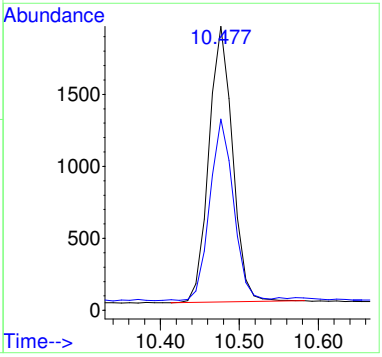


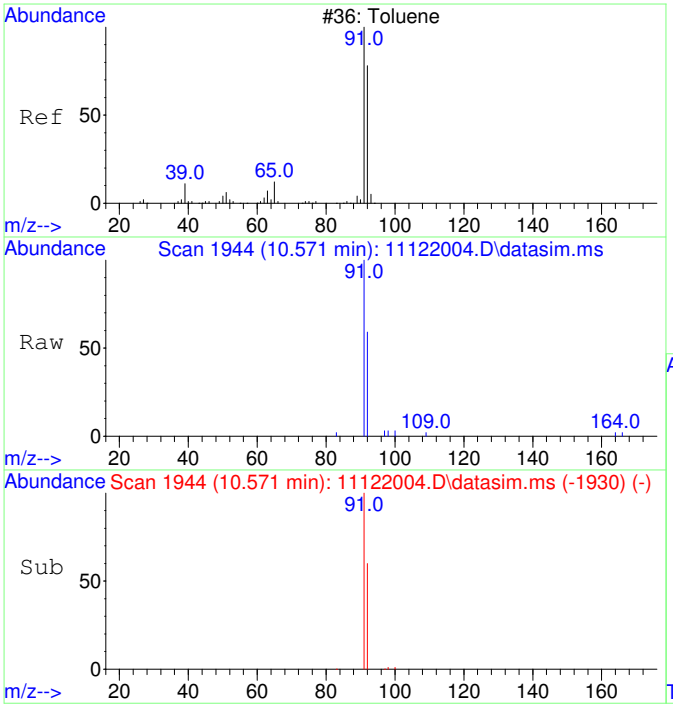


#12
Toluene-d8
Concen: 50.09 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 98 Resp: 3987

Ion	Ratio	Lower	Upper
98	100		
100	64.7	37.1	97.1

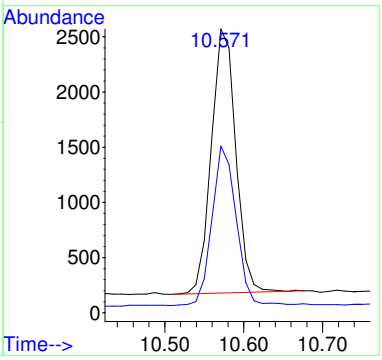


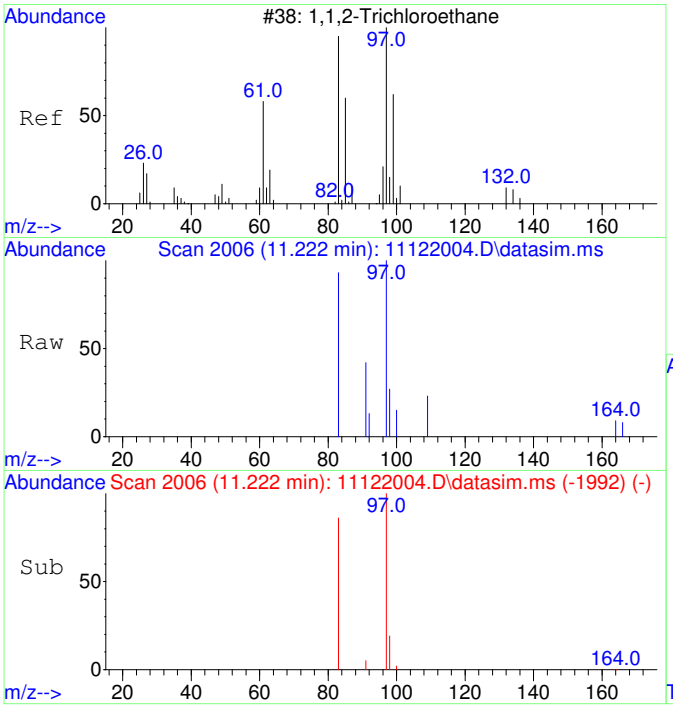


#13
Toluene
Concen: 50.78 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5153

Ion	Ratio	Lower	Upper
91	100		
92	58.8	29.9	89.9

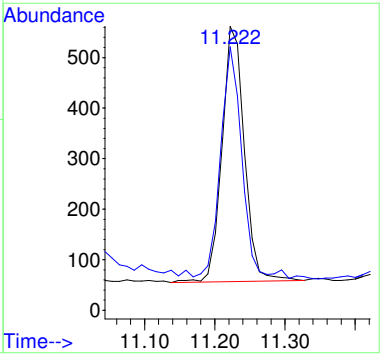


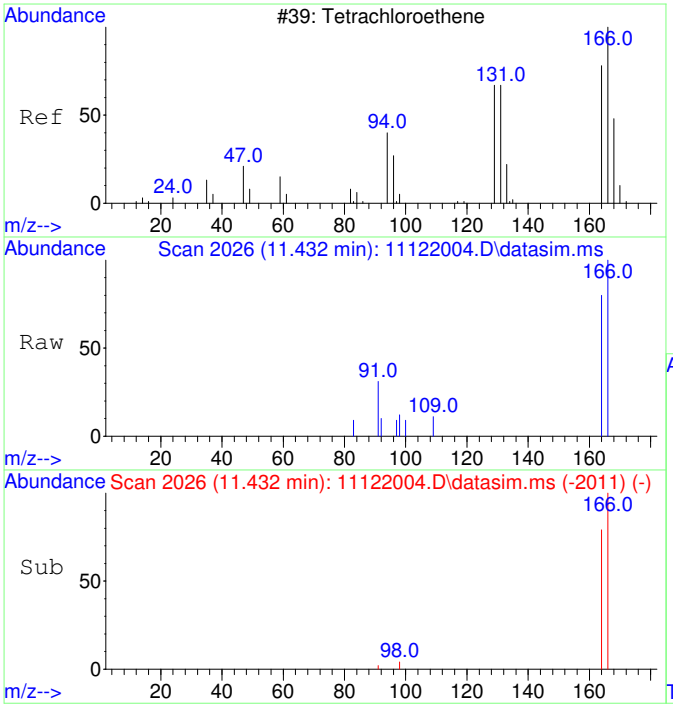


#14
1,1,2-Trichloroethane
Concen: 50.61 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 1119

Ion	Ratio	Lower	Upper
97	100		
83	84.0	51.2	111.2

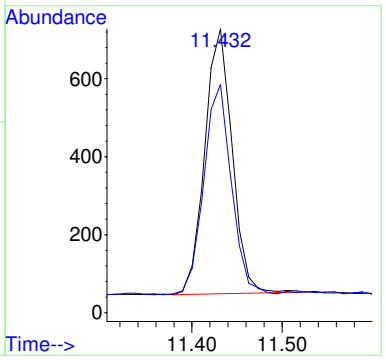


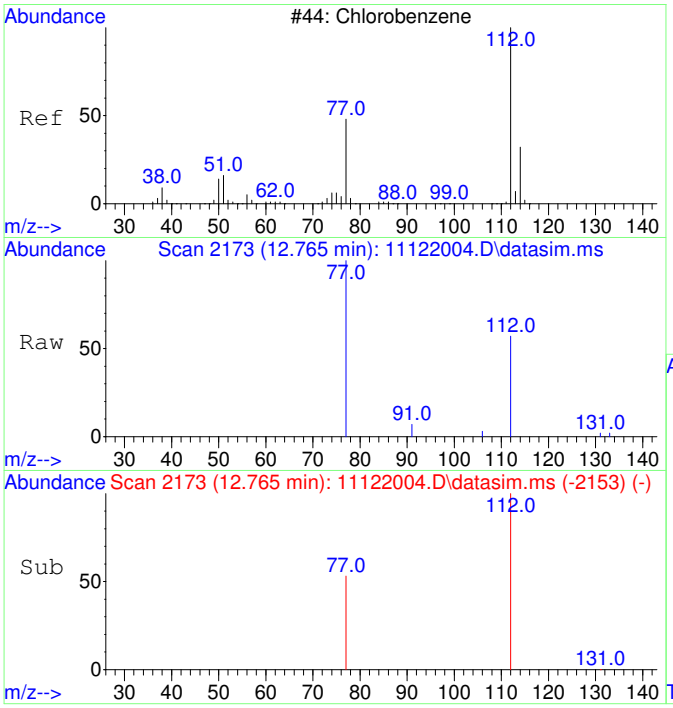


#15
Tetrachloroethene
Concen: 48.90 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:166 Resp: 1436

Ion	Ratio	Lower	Upper
166	100		
164	79.4	47.8	107.8

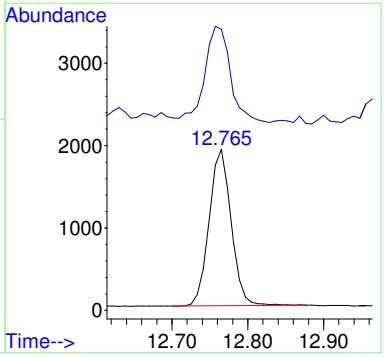


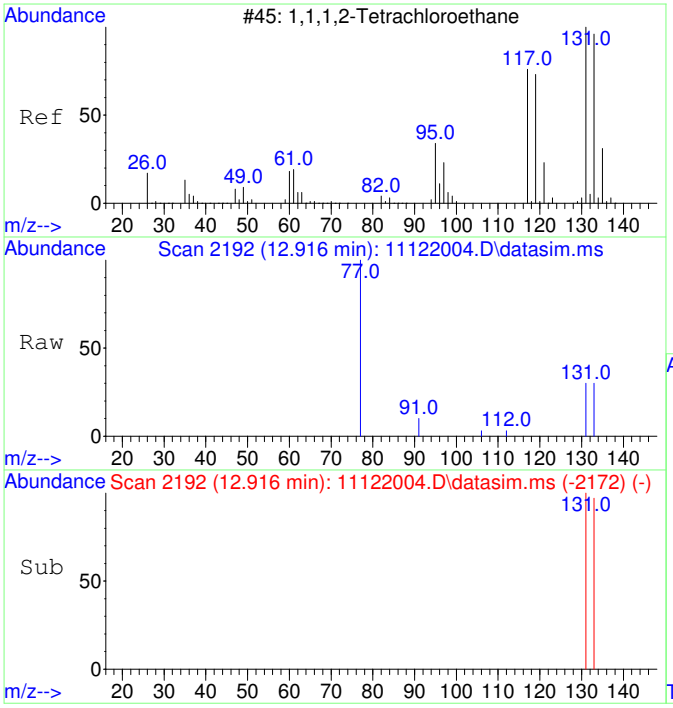


#16
Chlorobenzene
Concen: 52.70 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:112 Resp: 3829

Ion	Ratio	Lower	Upper
112	100		
77	71.3	23.6	83.6

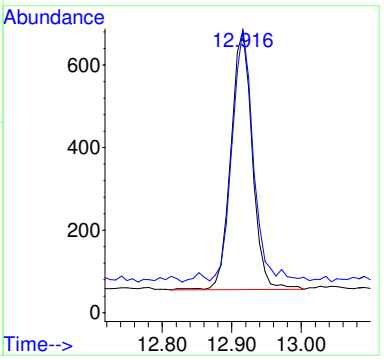


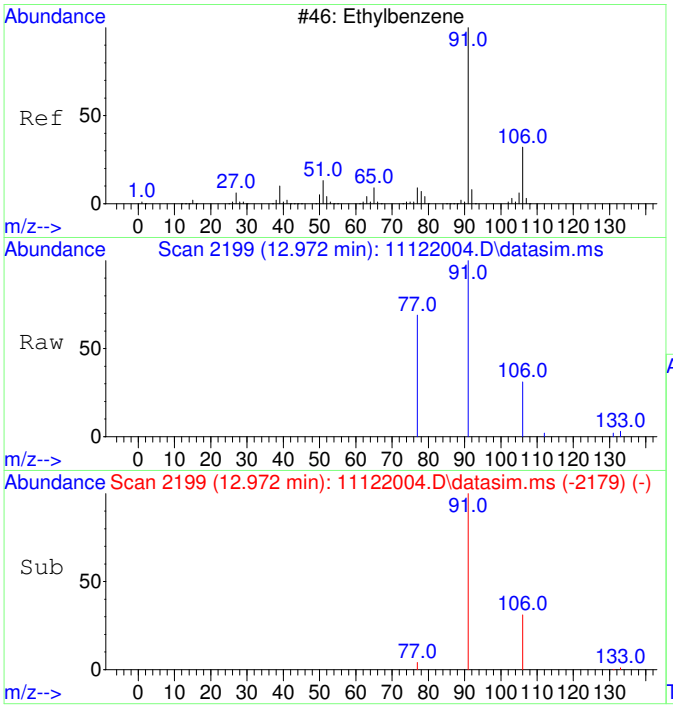


#17
1,1,1,2-Tetrachloroethane
Concen: 51.58 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:131 Resp: 1343

Ion	Ratio	Lower	Upper
131	100		
133	95.2	66.3	126.3

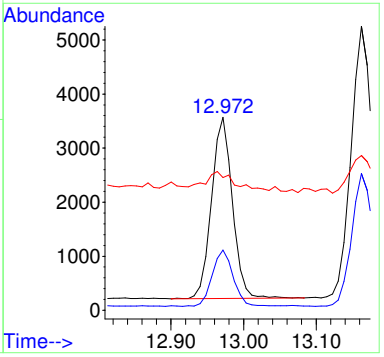


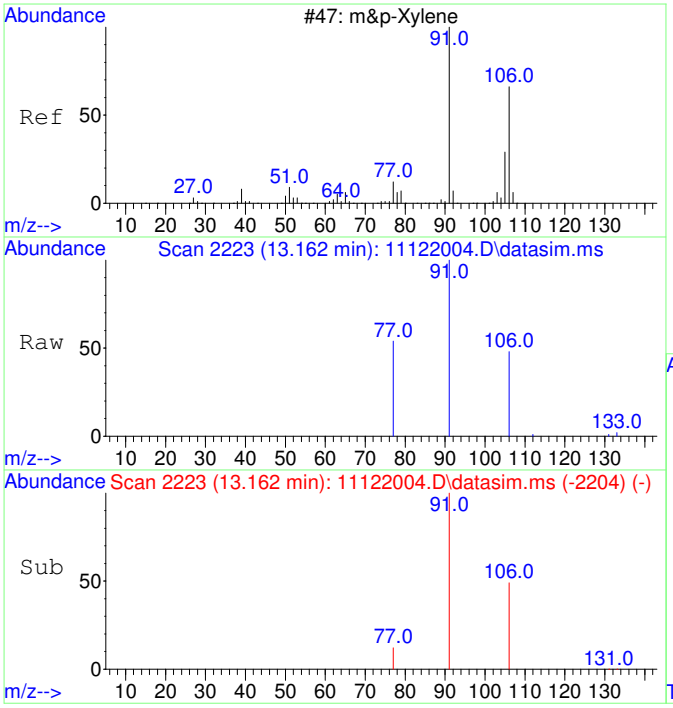


#18
Ethylbenzene
Concen: 54.19 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 6693

Ion	Ratio	Lower	Upper
91	100		
106	31.5	3.0	63.0
77	14.0	0.0	38.2

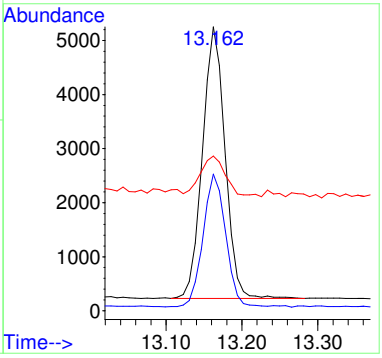


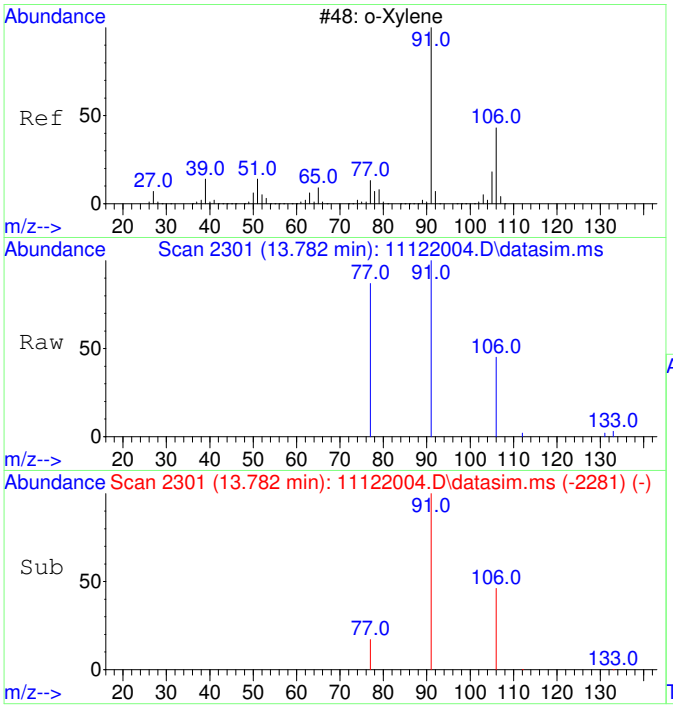


#19
m&p-Xylene
Concen: 107.56 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 10383

Ion	Ratio	Lower	Upper
91	100		
106	48.3	22.2	82.2
77	14.9	0.0	42.4

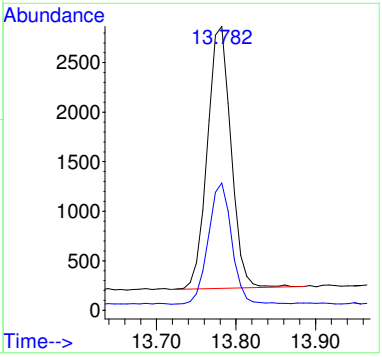


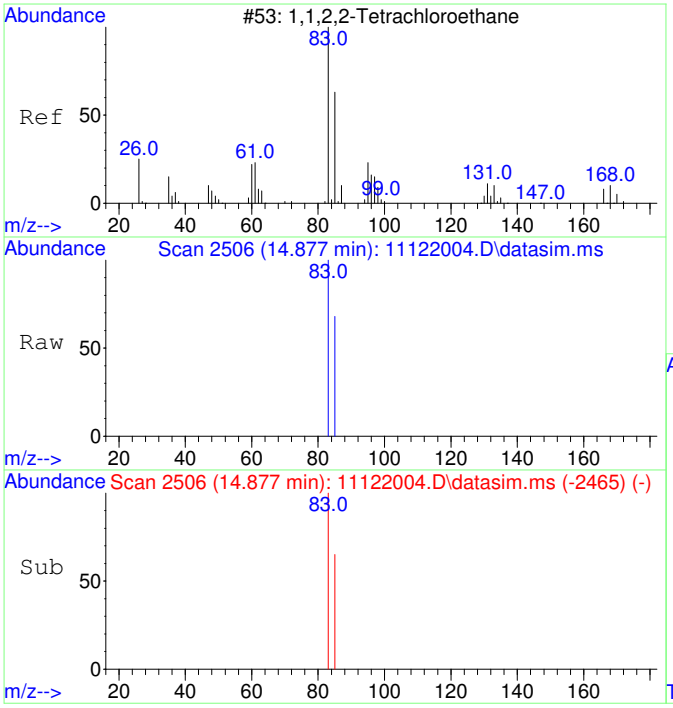


#20
o-Xylene
Concen: 52.85 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5451

Ion	Ratio	Lower	Upper
91	100		
106	45.7	19.2	79.2

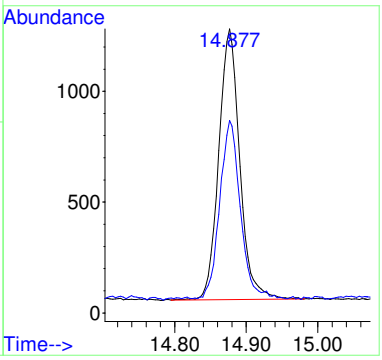


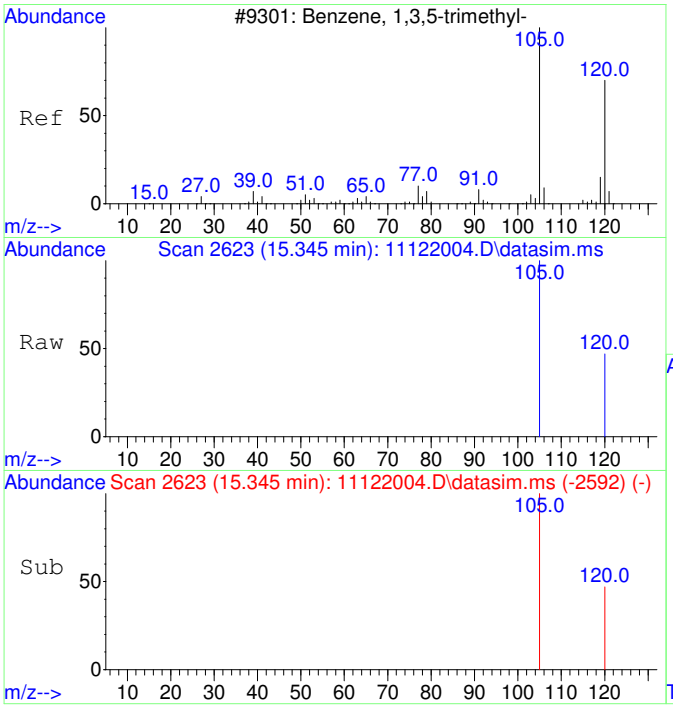


#21
1,1,2,2-Tetrachloroethane
Concen: 54.48 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. 0.004 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 2490

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.8	94.8

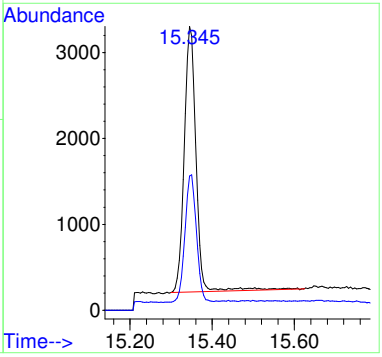


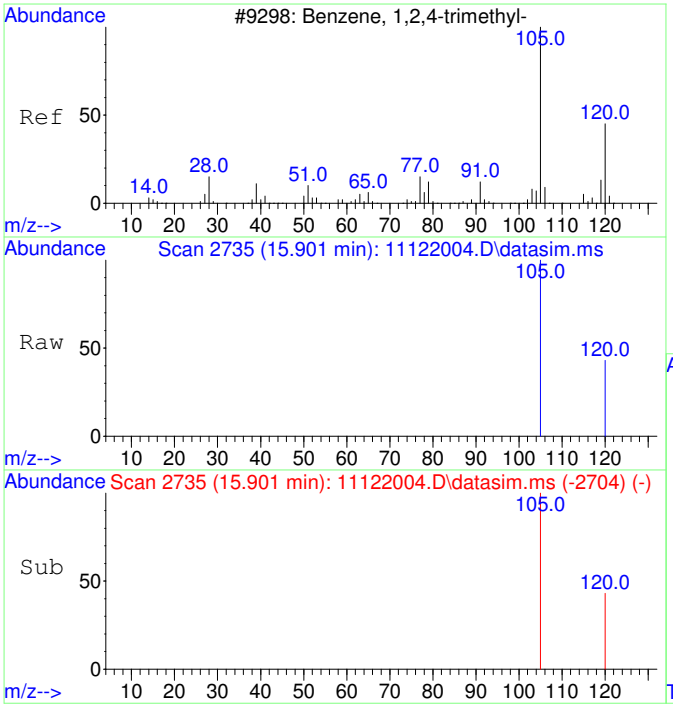


#22
1,3,5-Trimethylbenzene
Concen: 55.86 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:105 Resp: 6132

Ion	Ratio	Lower	Upper
105	100		
120	46.0	21.1	81.1

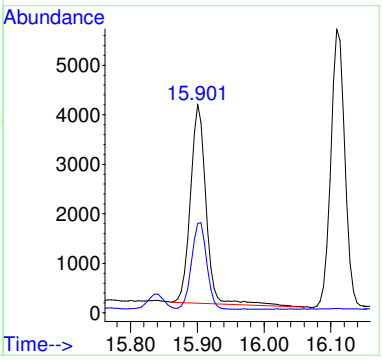


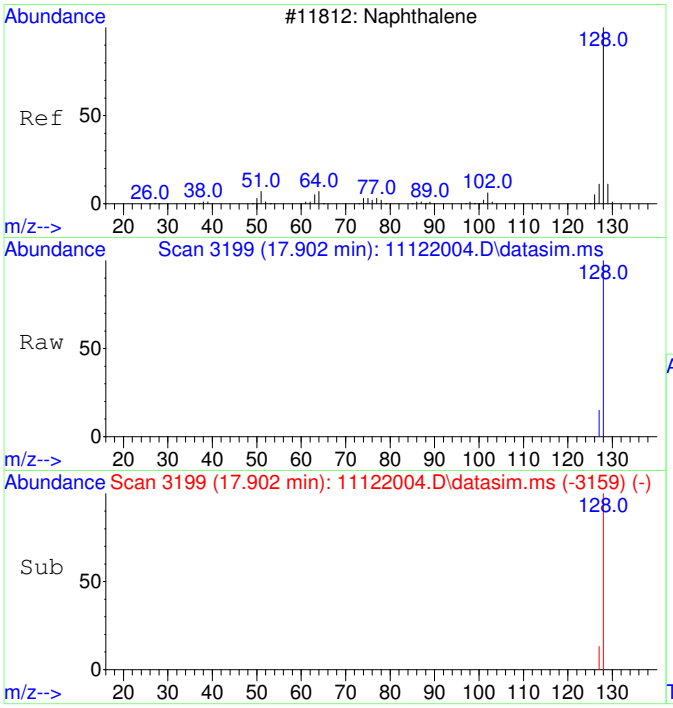


#23
1,2,4-Trimethylbenzene
Concen: 57.28 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:105 Resp: 6531

Ion	Ratio	Lower	Upper
105	100		
120	41.4	17.2	77.2

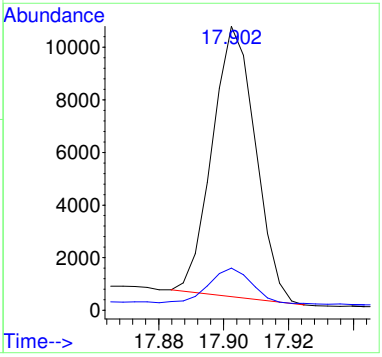


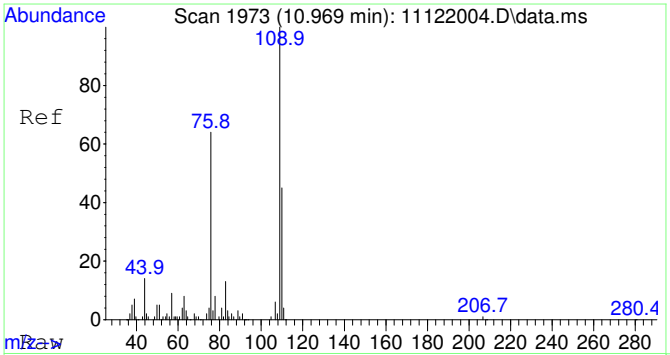


#24
Naphthalene
Concen: 52.44 ug/L
RT: 17.902 min Scan# 3199
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:128 Resp: 9451

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.5

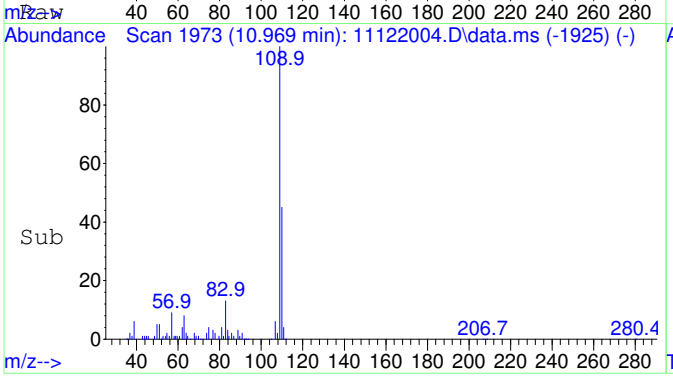


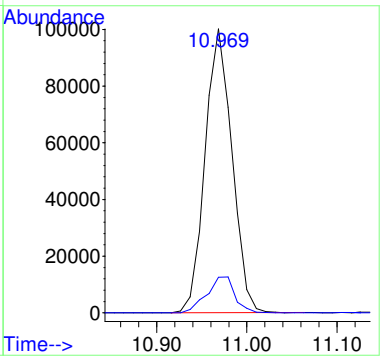


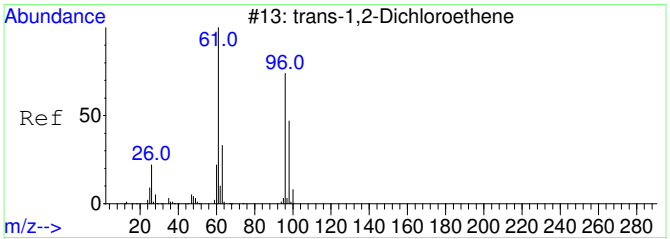
#25
2-Fluorotoluene SCAN
Concen: 5237.78 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:109 Resp: 207598

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.8



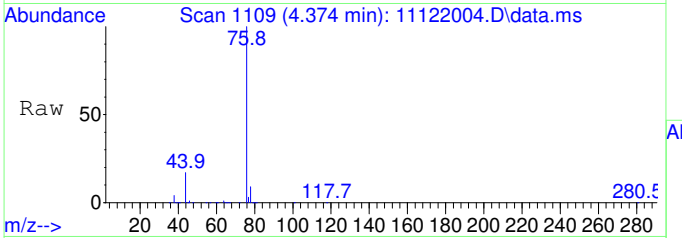


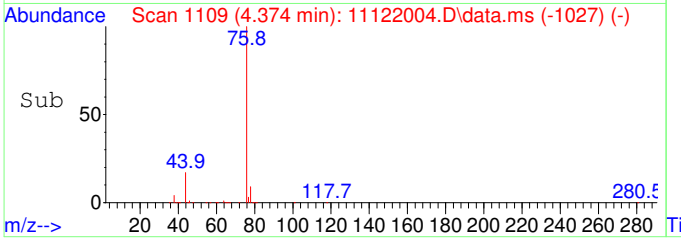


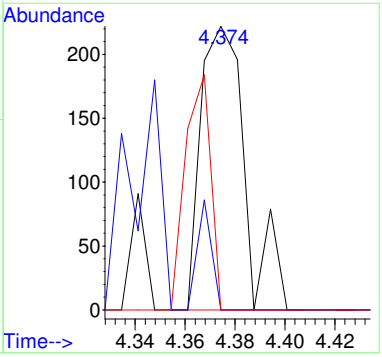
#27
trans-1,2-Dichloroethene SCAN
Concen: 26.50 ug/L
RT: 4.374 min Scan# 1109
Delta R.T. -0.027 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

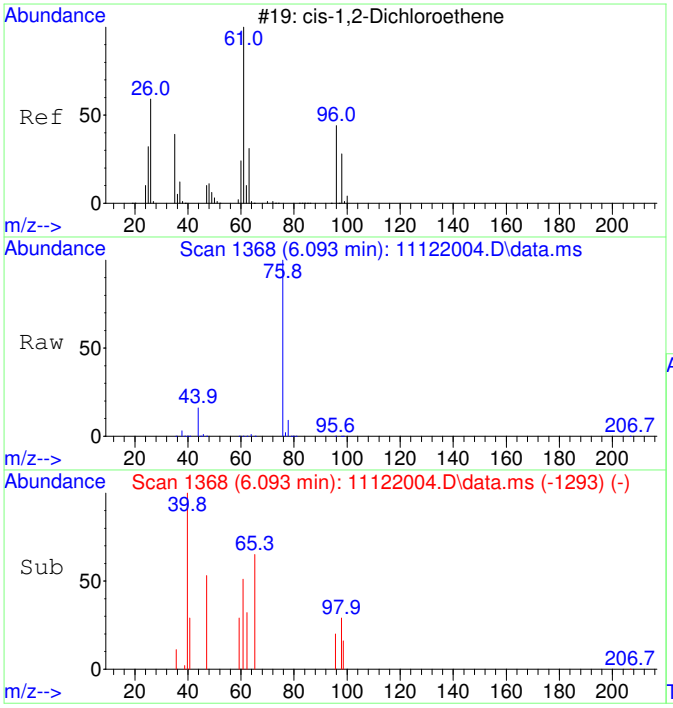
Tgt Ion: 61 Resp: 276

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	47.1	20.5	80.5





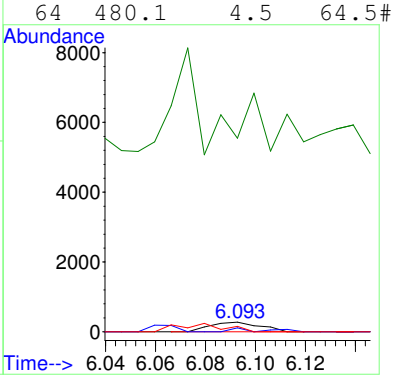


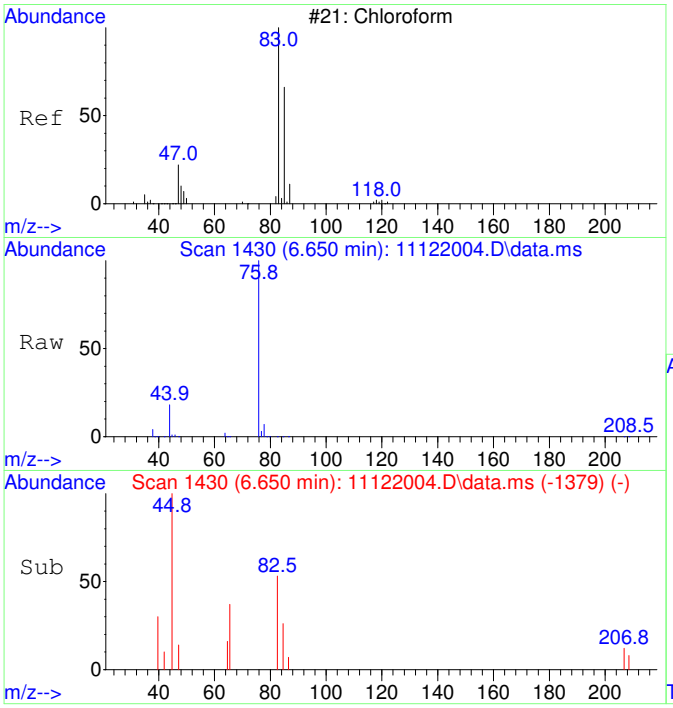


#29
cis-1,2-Dichloroethene SCAN
Concen: 29.89 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 386

Ion	Ratio	Lower	Upper
61	100		
96	23.8	39.9	99.9#
98	80.8	13.5	73.5#
64	480.1	4.5	64.5#

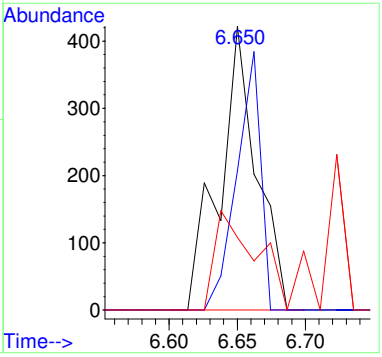


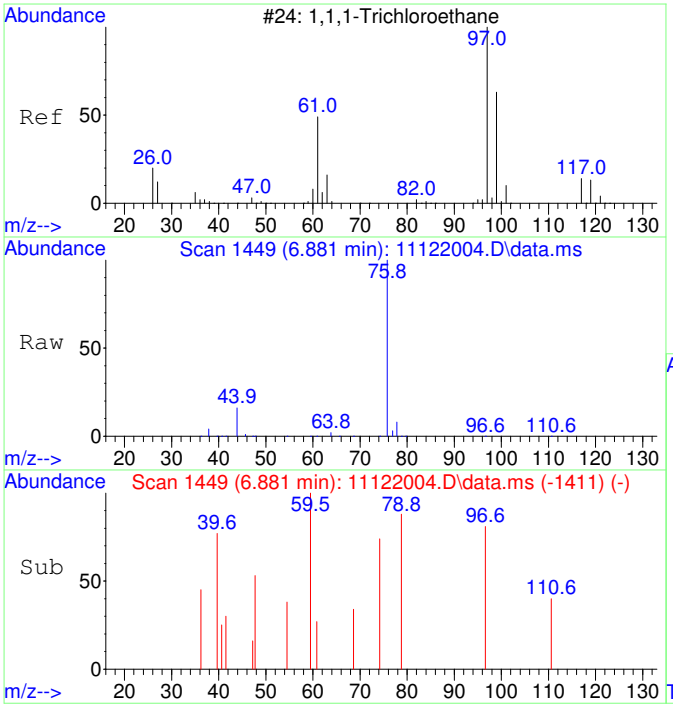


#30
Chloroform SCAN
Concen: 57.32 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 803

Ion	Ratio	Lower	Upper
83	100		
85	58.3	34.6	94.6
47	0.0	0.0	53.4

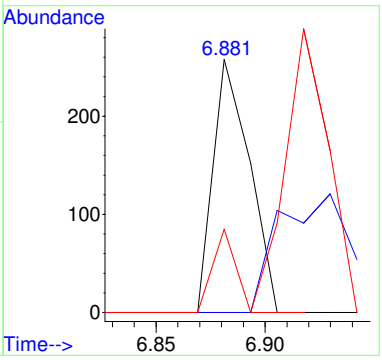


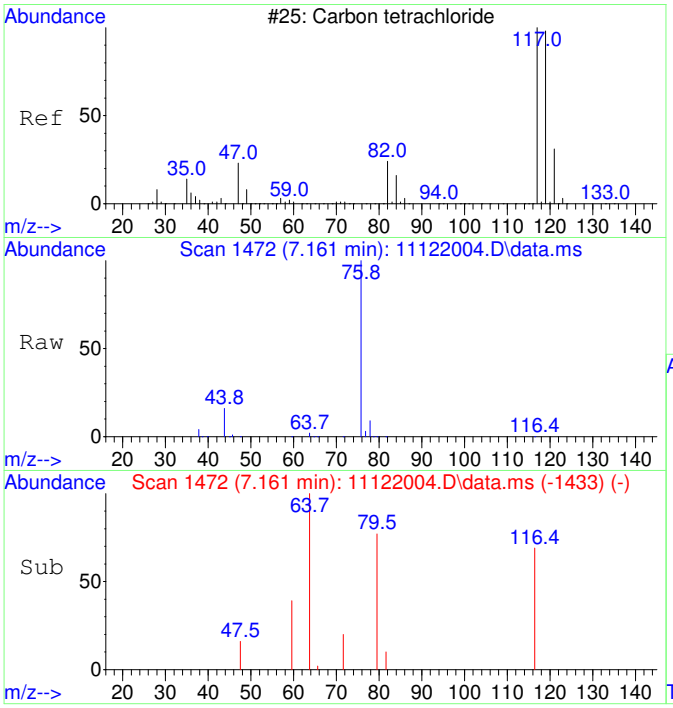


#31
1,1,1-Trichloroethane SCAN
Concen: 23.42 ug/L
RT: 6.881 min Scan# 1449
Delta R.T. -0.037 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 299

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

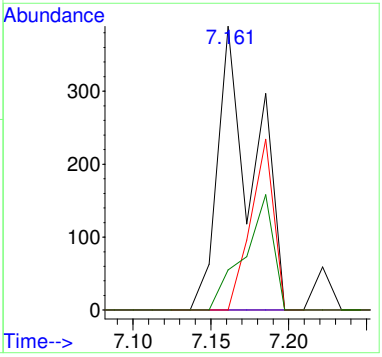


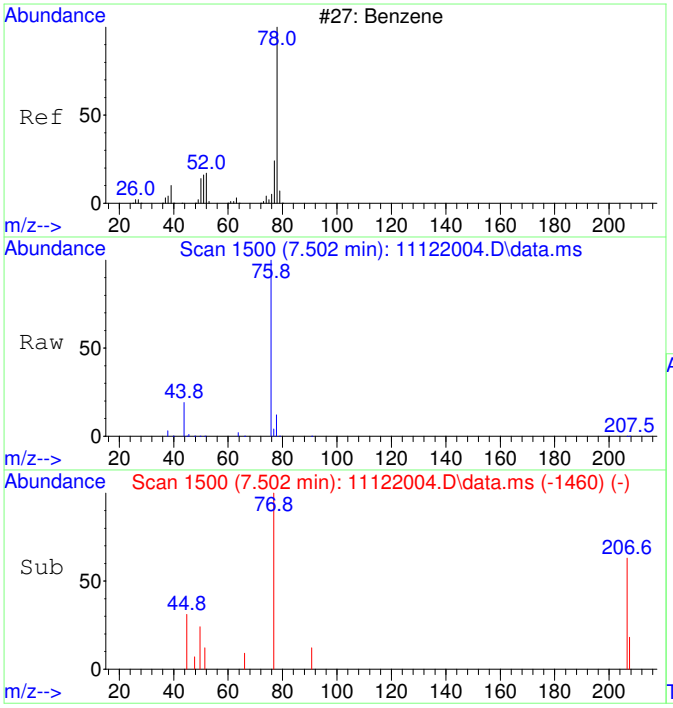


#32
Carbon tetrachloride SCAN
Concen: 47.54 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.024 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:117 Resp: 633

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

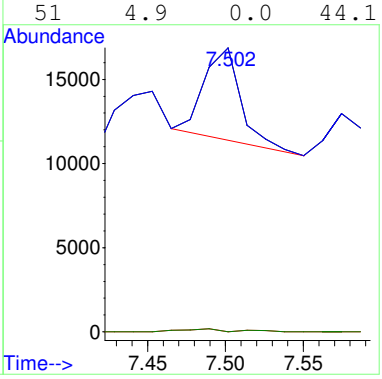


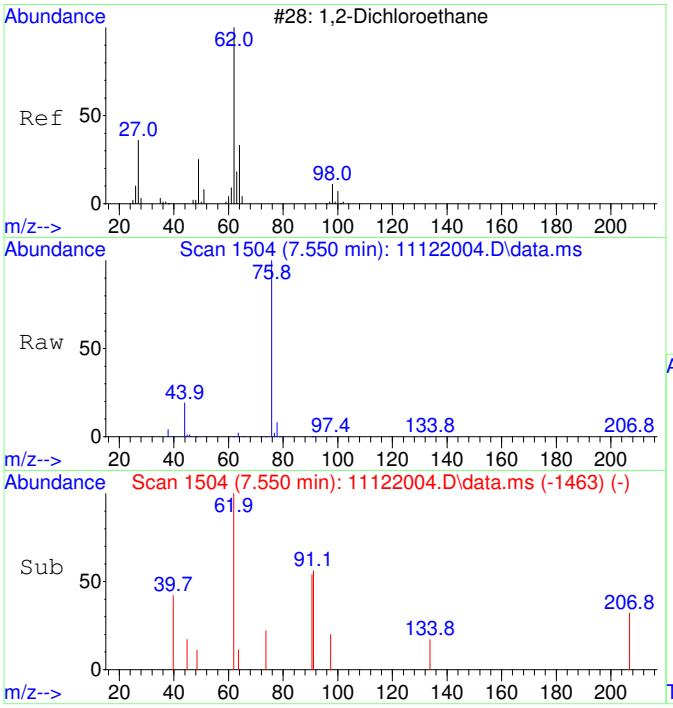


#33
Benzene SCAN
Concen: 236.46 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 78 Resp: 8311

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	4.9	0.0	47.9
51	4.9	0.0	44.1

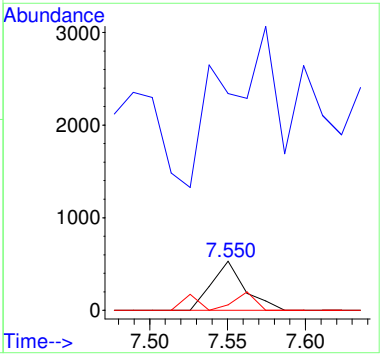


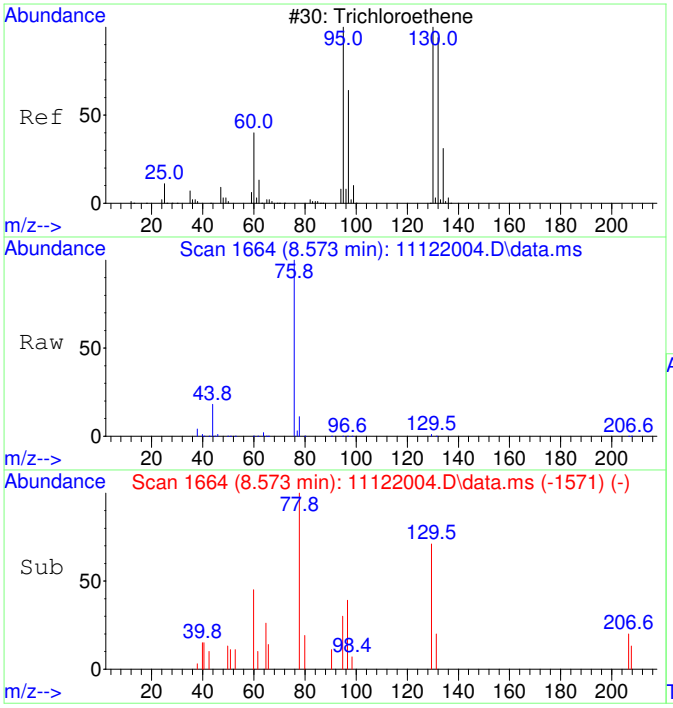


#34
1,2-Dichloroethane SCAN
Concen: 60.25 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 62 Resp: 782

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

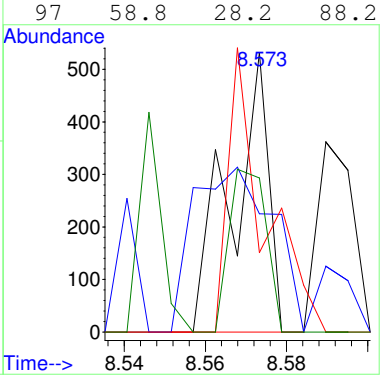


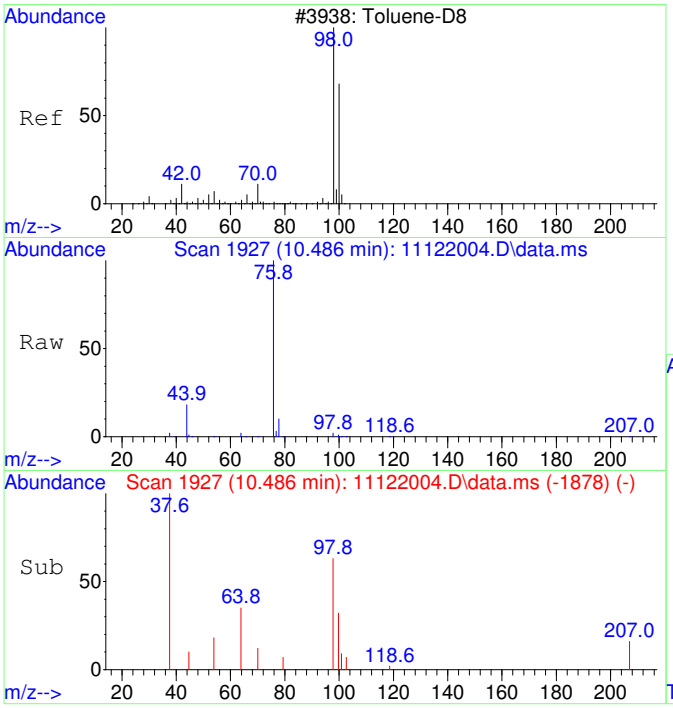


#35
Trichloroethene SCAN
Concen: 34.68 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.005 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:130 Resp: 335

Ion	Ratio	Lower	Upper
130	100		
95	149.6	60.5	120.5#
132	99.1	59.6	119.6
97	58.8	28.2	88.2

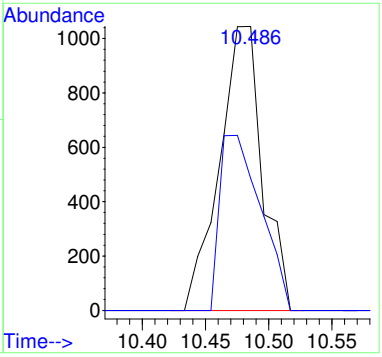


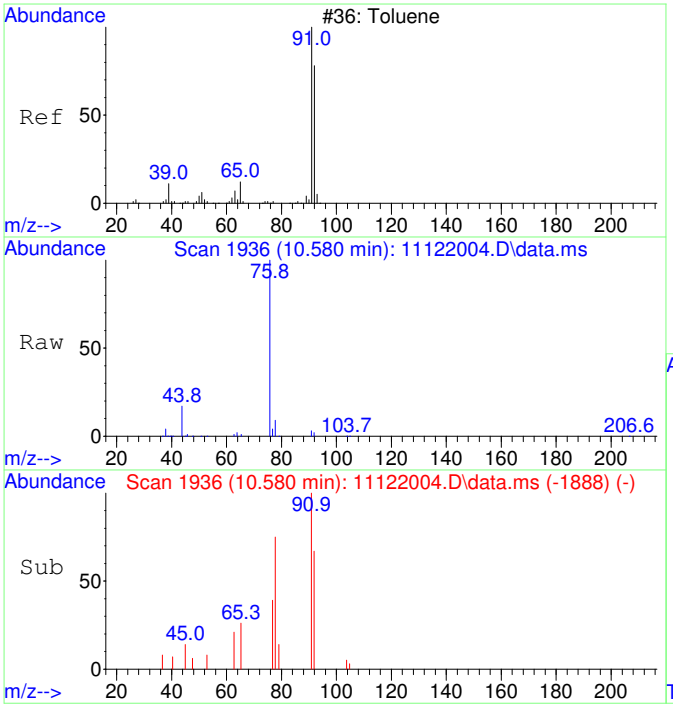


#36
Toluene-d8 SCAN
Concen: 64.03 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 98 Resp: 2482

Ion	Ratio	Lower	Upper
98	100		
100	58.9	40.0	100.0

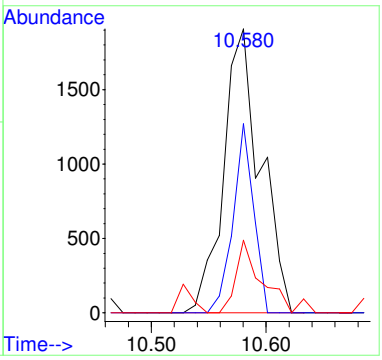


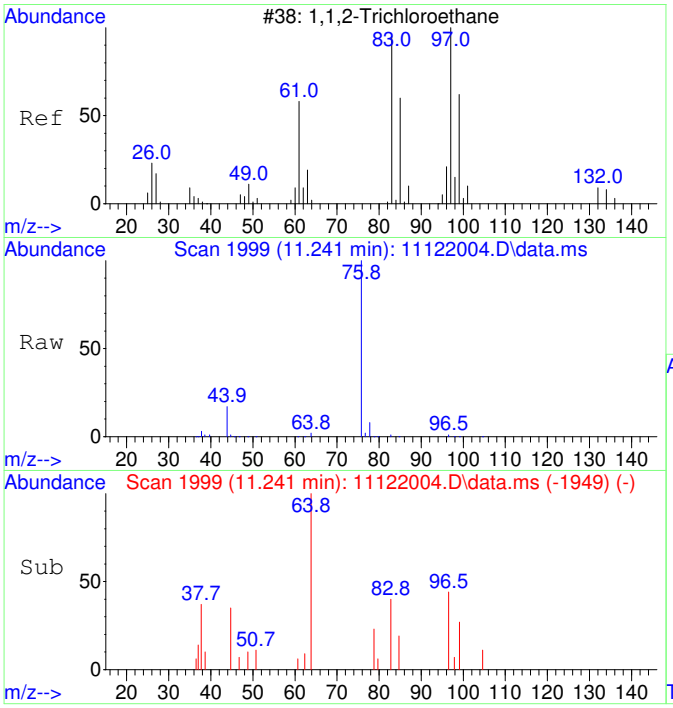


#37
Toluene SCAN
Concen: 86.20 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 4279

Ion	Ratio	Lower	Upper
91	100		
92	36.8	28.3	88.3
65	18.6	0.0	41.0

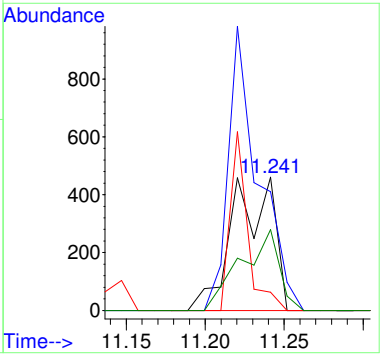


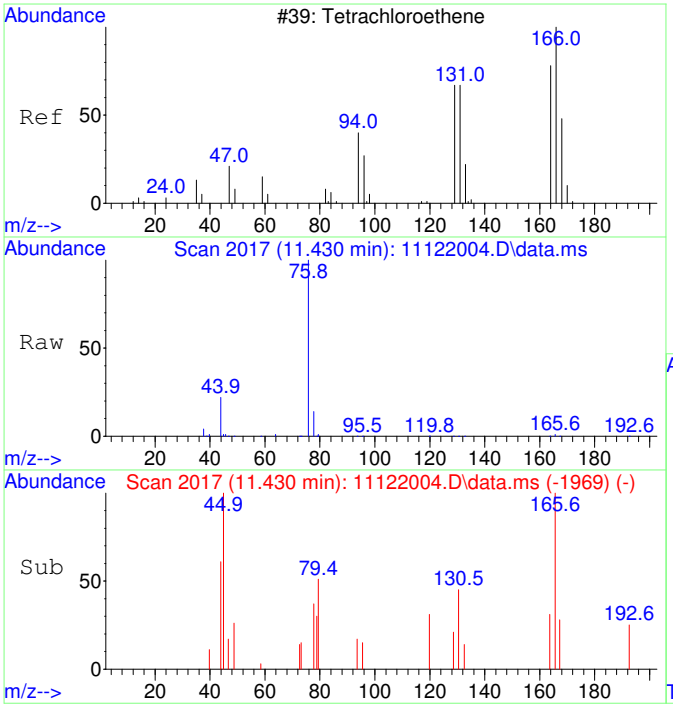


#38
1,1,2-Trichloroethane SCAN
Concen: 74.76 ug/L
RT: 11.241 min Scan# 1999
Delta R.T. 0.021 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 833

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	56.8	36.7	96.7

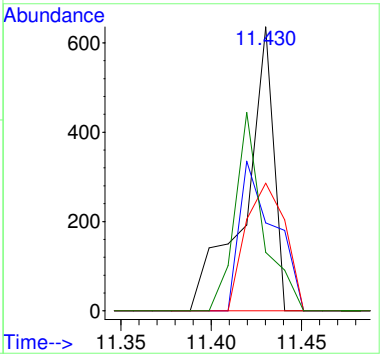


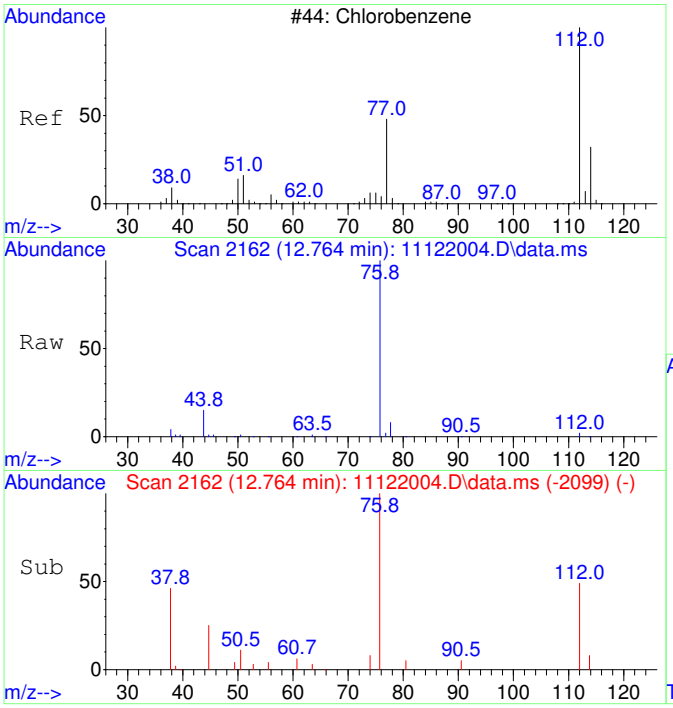


#39
Tetrachloroethene SCAN
Concen: 59.03 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:166 Resp: 704

Ion	Ratio	Lower	Upper
166	100		
164	63.6	50.9	110.9
131	62.2	38.7	98.7
129	68.6	41.8	101.8

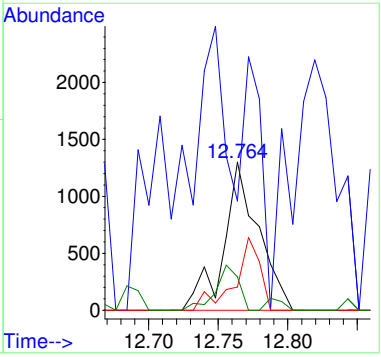


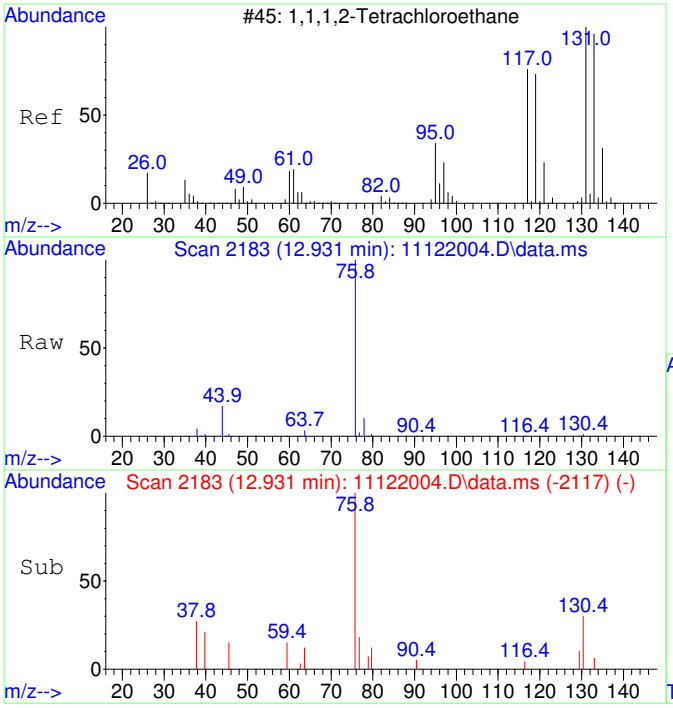


#40
Chlorobenzene SCAN
Concen: 66.80 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:112 Resp: 2266

Ion	Ratio	Lower	Upper
112	100		
77	65.9	28.2	88.2
114	0.0	2.3	62.3#
51	20.1	0.0	50.1

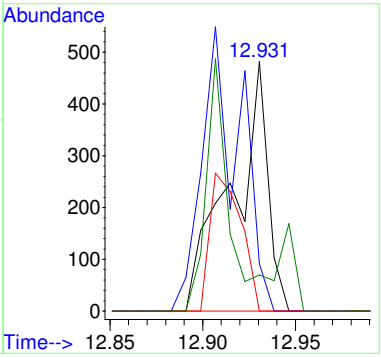


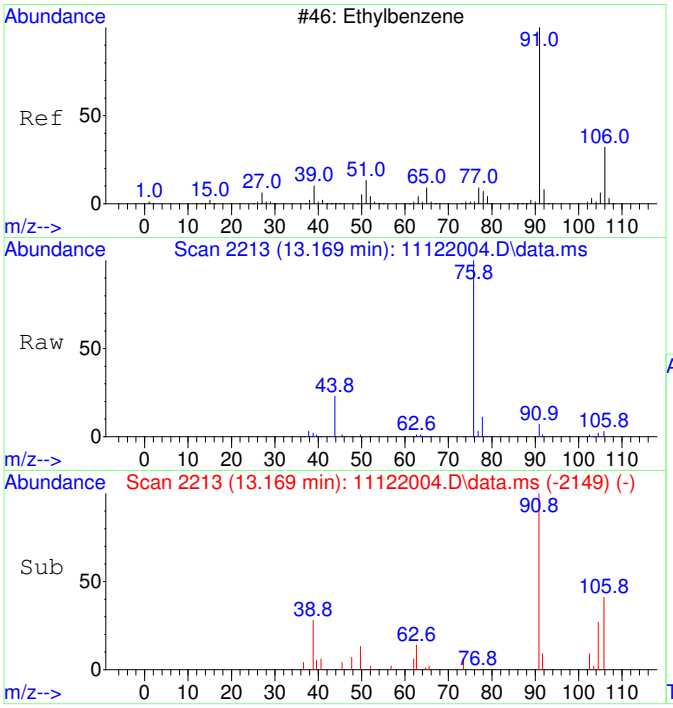


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 51.94 ug/L
RT: 12.931 min Scan# 2183
Delta R.T. 0.024 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:131 Resp: 652

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#

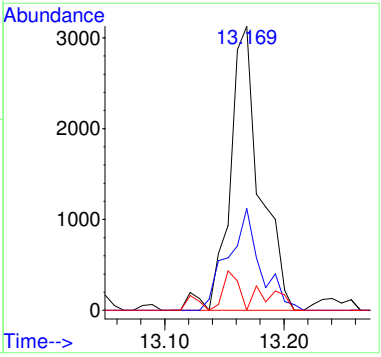


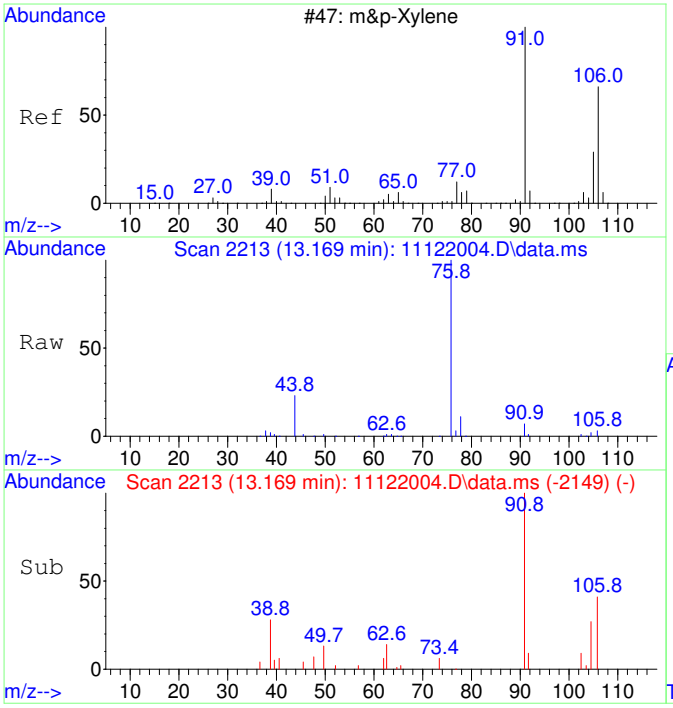


#42
Ethylbenzene SCAN
Concen: 60.75 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5494

Ion	Ratio	Lower	Upper
91	100		
106	38.8	23.1	83.1
51	6.4	0.0	40.1

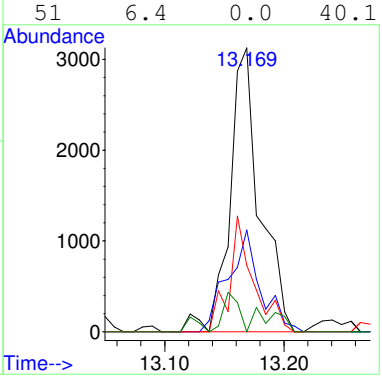


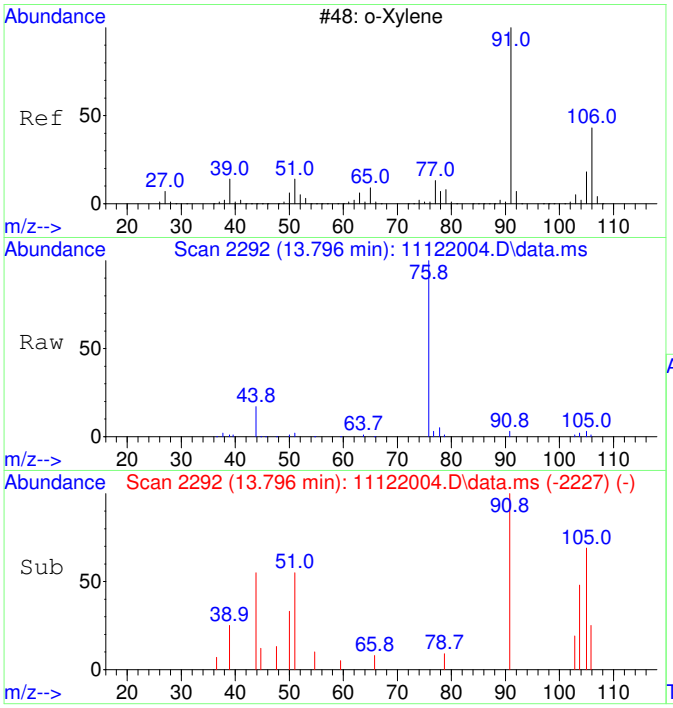


#43
m&p-Xylene SCAN
Concen: 60.75 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5494

Ion	Ratio	Lower	Upper
91	100		
106	38.8	23.1	83.1
105	32.6	0.0	54.7
51	6.4	0.0	40.1

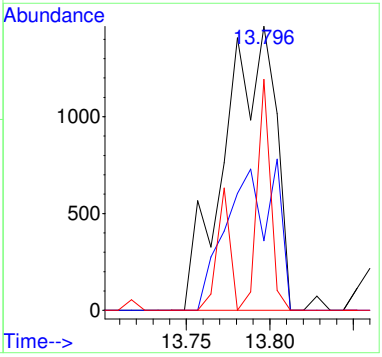


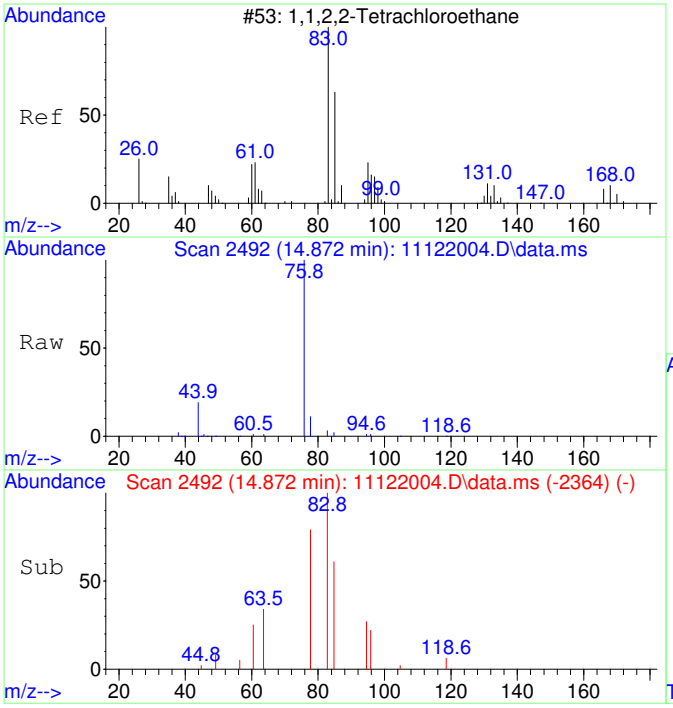


#44
o-Xylene SCAN
Concen: 64.27 ug/L
RT: 13.796 min Scan# 2292
Delta R.T. 0.016 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 3111

Ion	Ratio	Lower	Upper
91	100		
106	48.4	18.0	78.0
105	21.3	0.0	56.6

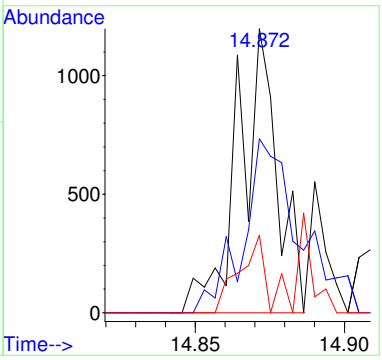


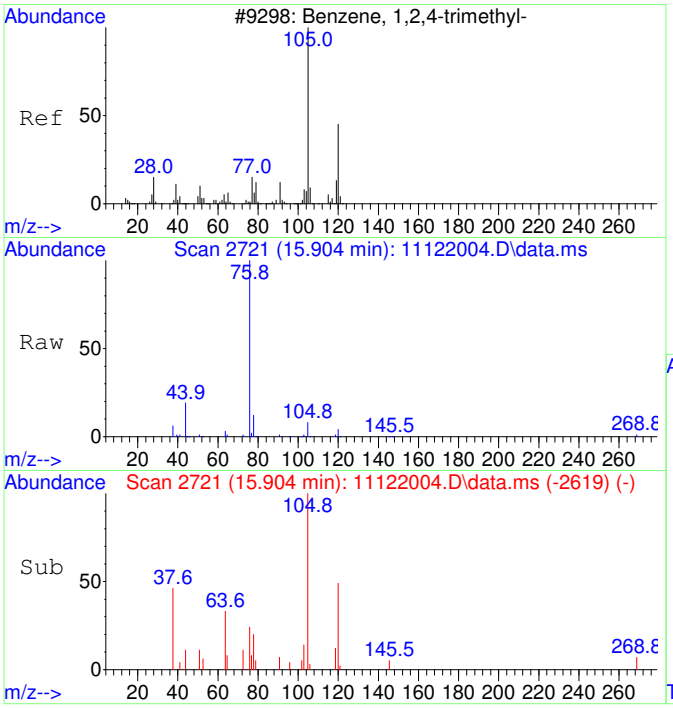


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 46.14 ug/L
RT: 14.872 min Scan# 2492
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 1089

Ion	Ratio	Lower	Upper
83	100		
85	88.7	35.9	95.9
95	17.1	0.0	47.4

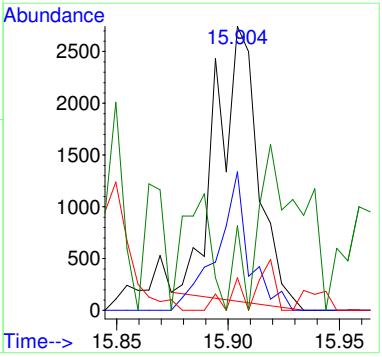


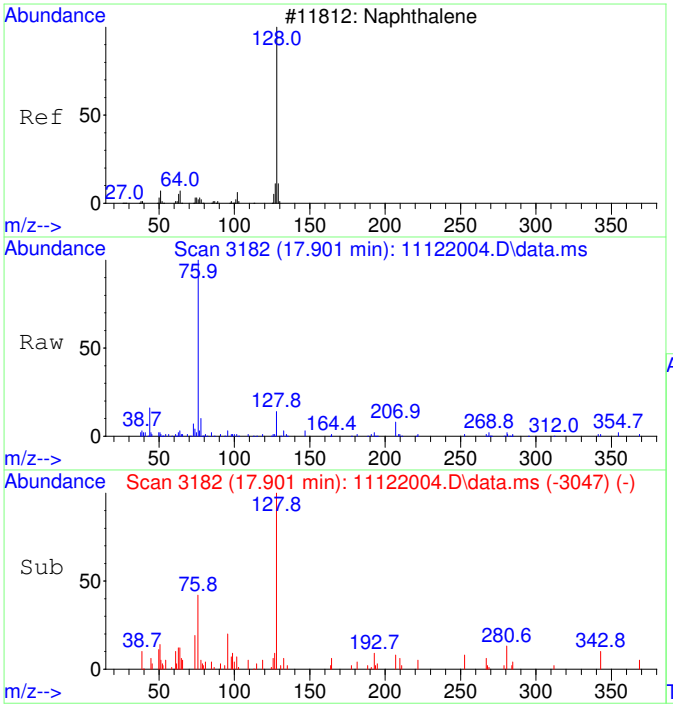


#47
1,2,4-Trimethylbenzene SCAN
Concen: 66.19 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:105 Resp: 3455

Ion	Ratio	Lower	Upper
105	100		
120	38.4	16.9	76.9
119	0.0	0.0	41.9
77	28.1	0.0	42.3

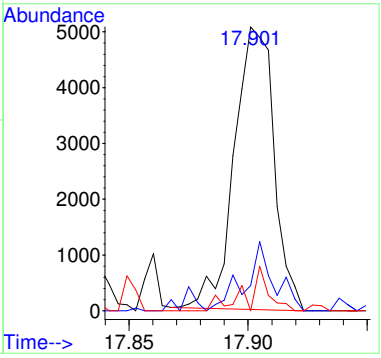




#48
Naphthalene SCAN
Concen: 74.30 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:128 Resp: 5869

Ion	Ratio	Lower	Upper
128	100		
127	17.7	0.0	44.0
129	8.7	0.0	40.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122004.D
Acq On : 12 Nov 2020 9:39
InstName : AG5975C
Operator : TD
Sample : S20K052-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

M.I. Performed By:
TD at 10:51 am, Nov 12, 2020

M.I. Approved By:
ZR at 2:14 pm, Nov 23, 2020

Quant Time: Nov 12 09:58:30 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

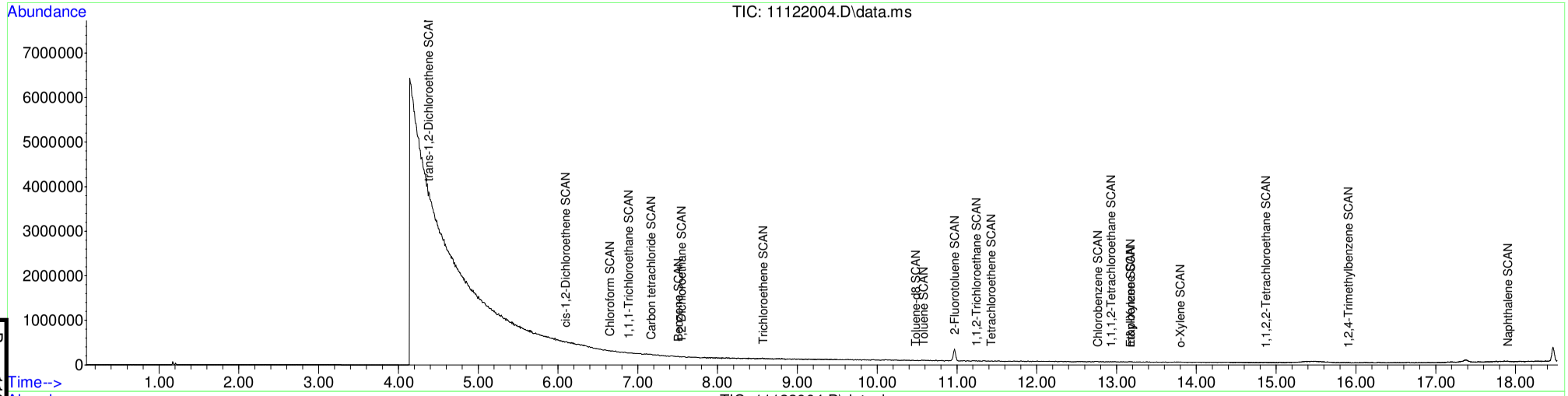
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.970	109	406587	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	10.477	98	3987	50.09	ug/L		0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	1.00%#			
Target Compounds							Qvalue
2] 1,1-Dichloroethene	3.093	61	832m	51.25	ug/L		
3] trans-1,2-Dichloroethene	4.369	61	983	52.40	ug/L		66
4] 1,1-Dichloroethane	5.079	63	1164	49.85	ug/L		67
5] cis-1,2-Dichloroethene	6.081	61	1269	51.49	ug/L		98
6] Chloroform	6.651	83	1187	47.05	ug/L		99
7] 1,1,1-Trichloroethane	6.907	97	1231	44.93	ug/L		99
8] Carbon tetrachloride	7.174	117	1139	44.17	ug/L		98
9] Benzene	7.503	78	3775	54.65	ug/L	#	6
10] 1,2-Dichloroethane	7.539	62	1174	47.61	ug/L	#	22
11] Trichloroethene	8.564	130	972	46.73	ug/L		90
13] Toluene	10.571	91	5153	50.78	ug/L		99
14] 1,1,2-Trichloroethane	11.222	97	1119	50.61	ug/L		97
15] Tetrachloroethene	11.432	166	1436	48.90	ug/L		98
16] Chlorobenzene	12.765	112	3829	52.70	ug/L		75
17] 1,1,1,2-Tetrachloroethane	12.916	131	1343	51.58	ug/L		99
18] Ethylbenzene	12.972	91	6693	54.19	ug/L		95
19] m&p-Xylene	13.162	91	10383	107.56	ug/L		94
20] o-Xylene	13.782	91	5451	52.85	ug/L		95
21] 1,1,2,2-Tetrachloroethane	14.877	83	2490	54.48	ug/L		100
22] 1,3,5-Trimethylbenzene	15.345	105	6132	55.86	ug/L		93
23] 1,2,4-Trimethylbenzene	15.901	105	6531	57.28	ug/L		91
24] Naphthalene	17.902	128	9451	52.44	ug/L		98
25) 2-Fluorotoluene SCAN	10.969	109	207598	5237.78	ug/L		99
27) trans-1,2-Dichloroethe...	4.374	61	276	26.50	ug/L	#	43
29) cis-1,2-Dichloroethene...	6.093	61	386	29.89	ug/L	#	1
30) Chloroform SCAN	6.650	83	803	57.32	ug/L	#	81
31) 1,1,1-Trichloroethane ...	6.881	97	299	23.42	ug/L	#	19
32) Carbon tetrachloride SCAN	7.161	117	633	47.54	ug/L	#	15
33) Benzene SCAN	7.502	78	8311	236.46	ug/L		94
34) 1,2-Dichloroethane SCAN	7.550	62	782	60.25	ug/L	#	40
35) Trichloroethene SCAN	8.573	130	335	34.68	ug/L	#	72
36) Toluene-d8 SCAN	10.486	98	2482	64.03	ug/L		87
37) Toluene SCAN	10.580	91	4279	86.20	ug/L		73
38) 1,1,2-Trichloroethane ...	11.241	97	833	74.76	ug/L	#	35
39) Tetrachloroethene SCAN	11.430	166	704	59.03	ug/L		89
40) Chlorobenzene SCAN	12.764	112	2266	66.80	ug/L	#	78
41) 1,1,1,2-Tetrachloroeth...	12.931	131	652	51.94	ug/L	#	10
42) Ethylbenzene SCAN	13.169	91	5494	60.75	ug/L		82
43) m&p-Xylene SCAN	13.169	91	5494	60.75	ug/L		82
44) o-Xylene SCAN	13.796	91	3111	64.27	ug/L		96
45) 1,1,2,2-Tetrachloroeth...	14.872	83	1089	46.14	ug/L		77
47) 1,2,4-Trimethylbenzene...	15.904	105	3455	66.19	ug/L	#	79
48) Naphthalene SCAN	17.901	128	5869	74.30	ug/L		92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111220\
Data File : 11122004.D
Acq On : 12 Nov 2020 9:39
InstName : AG5975C
Operator : TD
Sample : S20K052-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 12 09:58:30 2020
Quant Method : C:\msdchem\1\Ravioli Methods\2020\111220.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



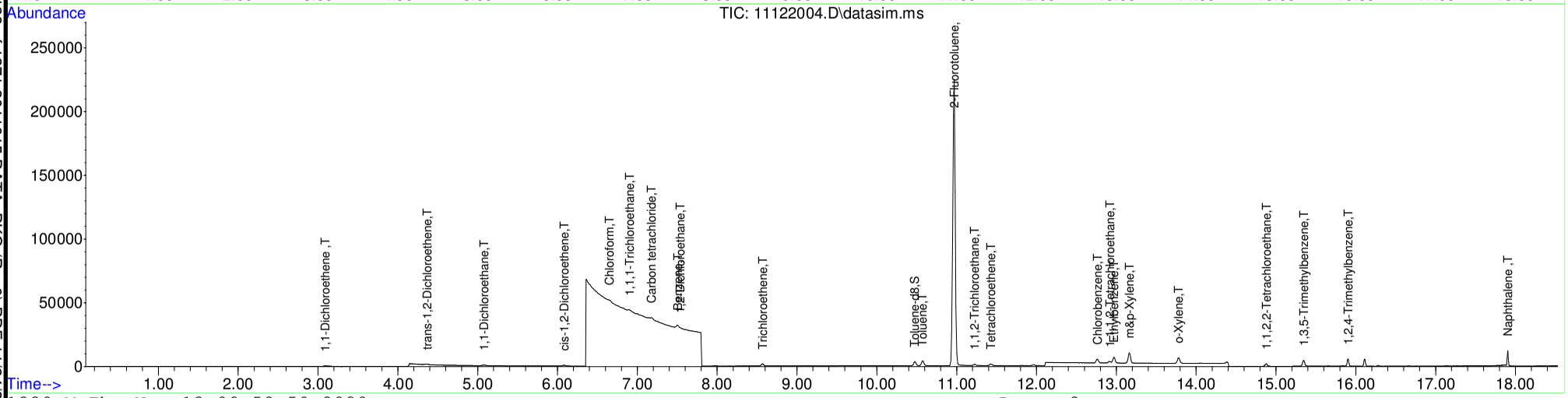
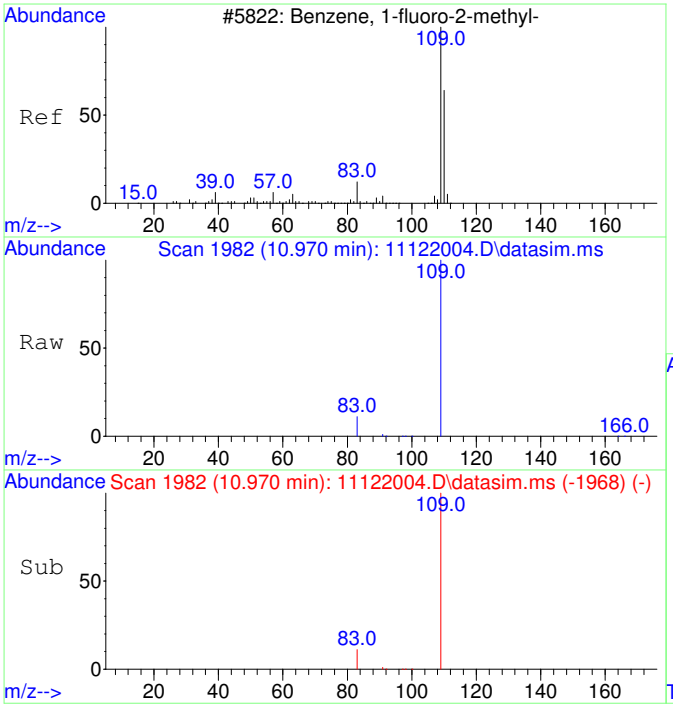


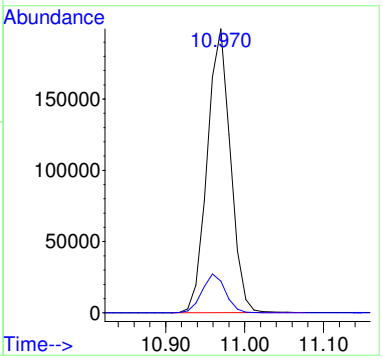
Table of Contents

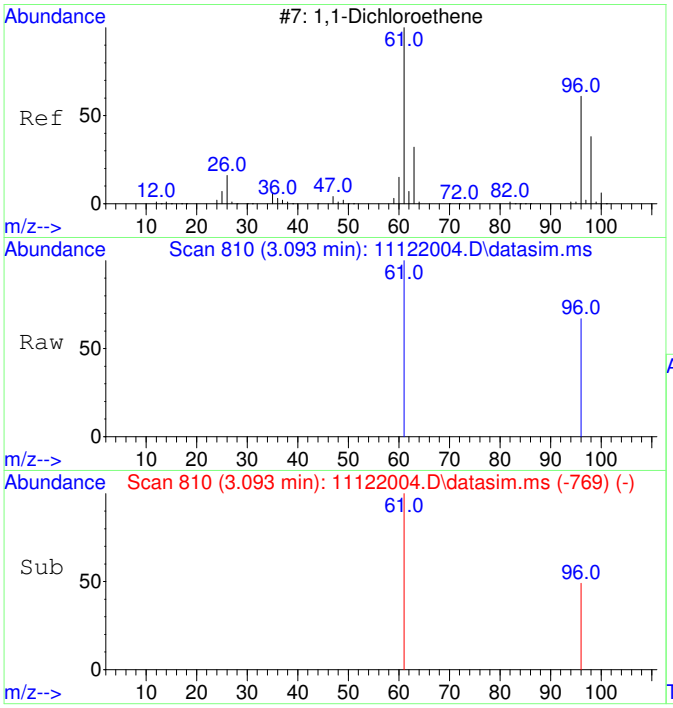


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:109 Resp: 406587

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

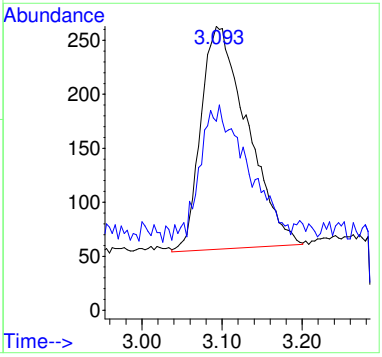


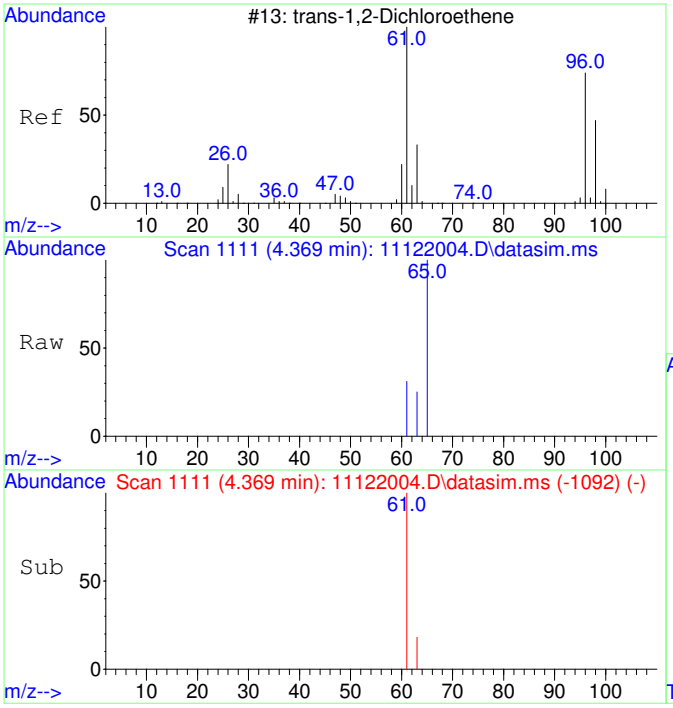


#2
1,1-Dichloroethene
Concen: 51.25 ug/L m
RT: 3.093 min Scan# 810
Delta R.T. 0.003 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 832

Ion	Ratio	Lower	Upper
61	100		
96	39.1	37.2	97.2

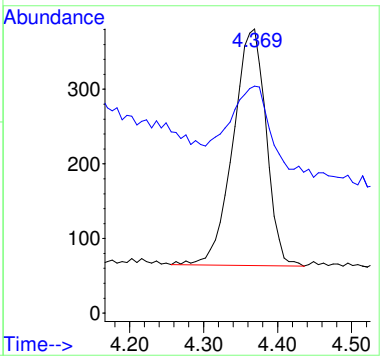


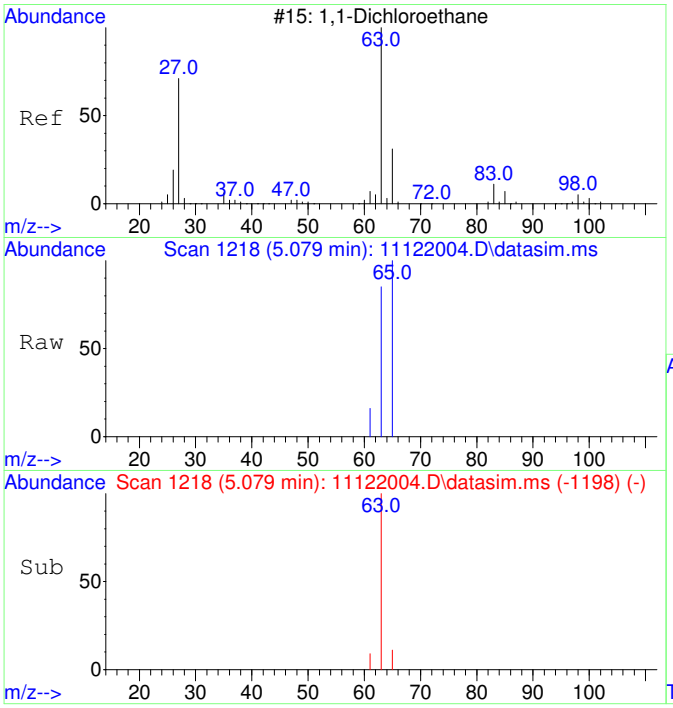


#3
trans-1,2-Dichloroethene
Concen: 52.40 ug/L
RT: 4.369 min Scan# 1111
Delta R.T. -0.027 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 983

Ion	Ratio	Lower	Upper
61	100		
63	51.7	2.4	62.4

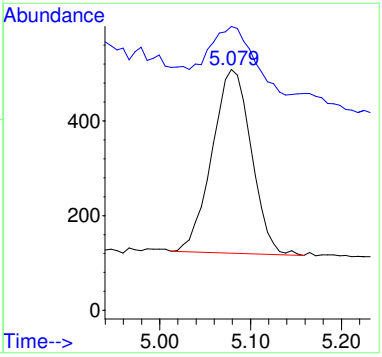


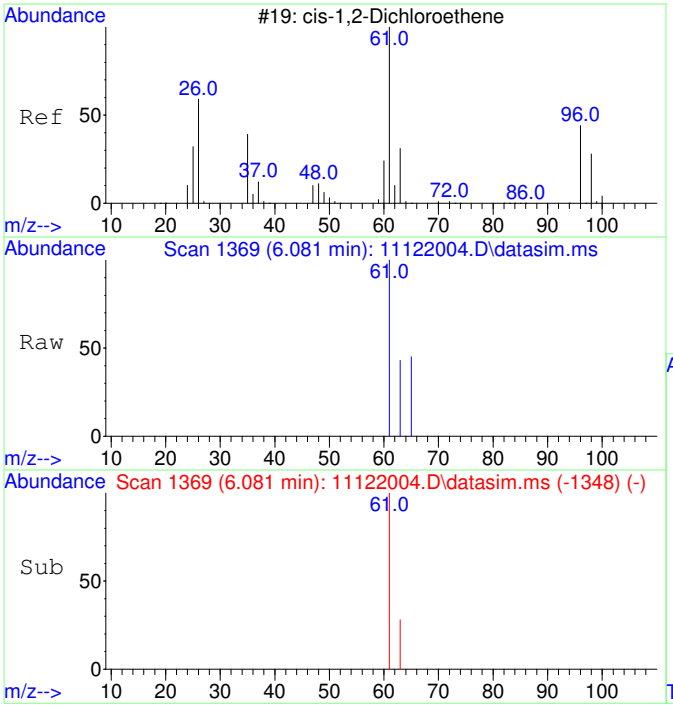


#4
1,1-Dichloroethane
Concen: 49.85 ug/L
RT: 5.079 min Scan# 1218
Delta R.T. -0.020 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 63 Resp: 1164

Ion	Ratio	Lower	Upper
63	100		
65	50.0	1.8	61.8

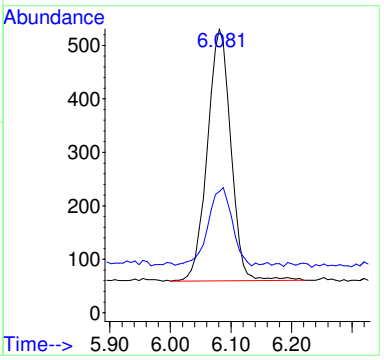


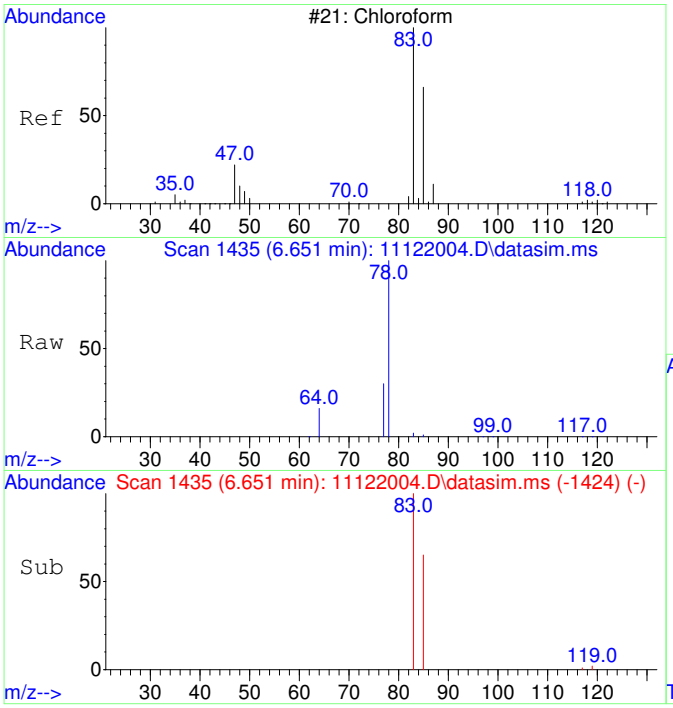


#5
cis-1,2-Dichloroethene
Concen: 51.49 ug/L
RT: 6.081 min Scan# 1369
Delta R.T. -0.013 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 1269

Ion	Ratio	Lower	Upper
61	100		
63	31.6	2.5	62.5

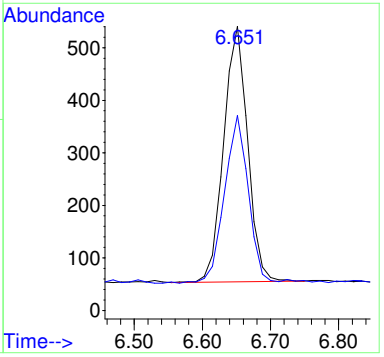


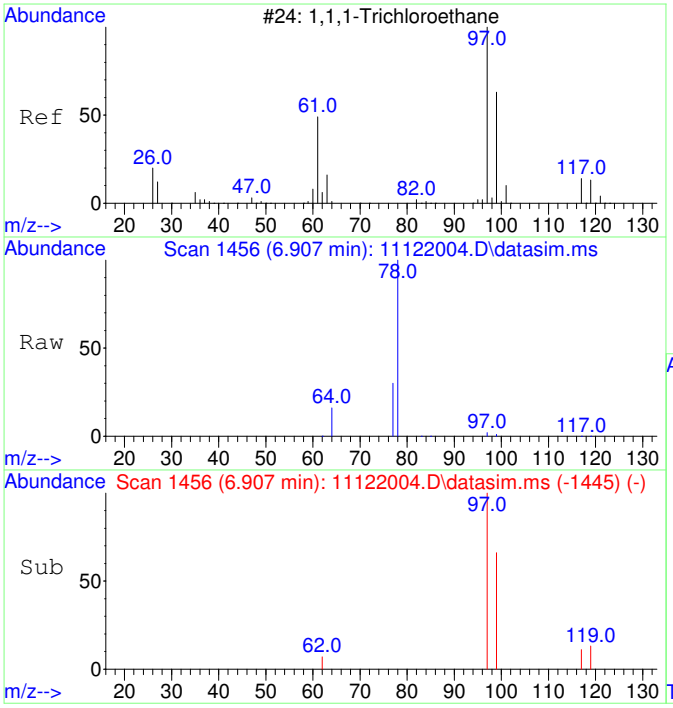


#6
Chloroform
Concen: 47.05 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 1187

Ion	Ratio	Lower	Upper
83	100		
85	64.0	35.1	95.1

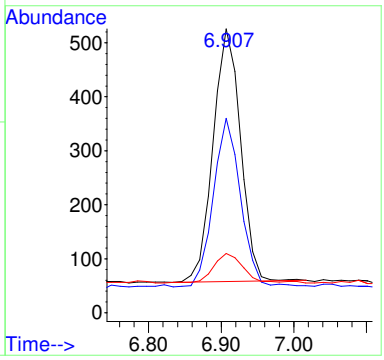


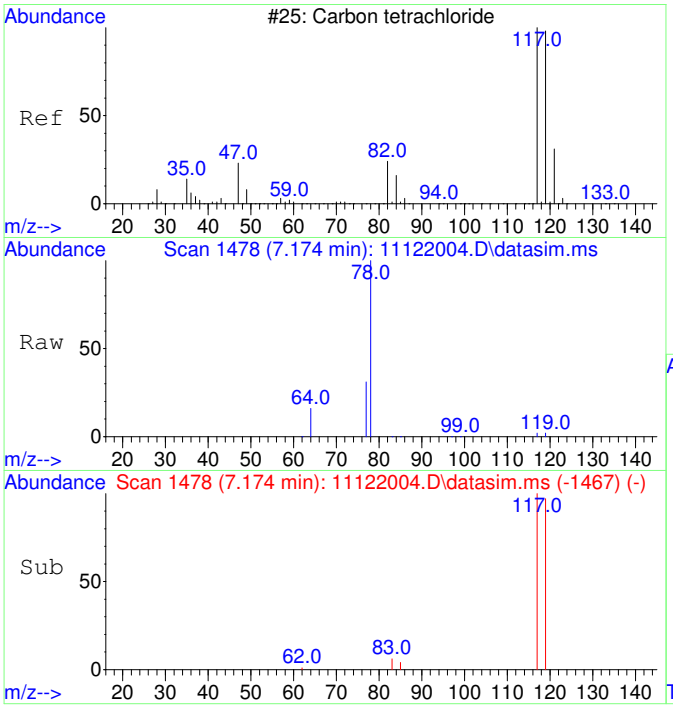


#7
1,1,1-Trichloroethane
Concen: 44.93 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 1231

Ion	Ratio	Lower	Upper
97	100		
99	65.2	34.6	94.6
117	13.0	0.0	43.2

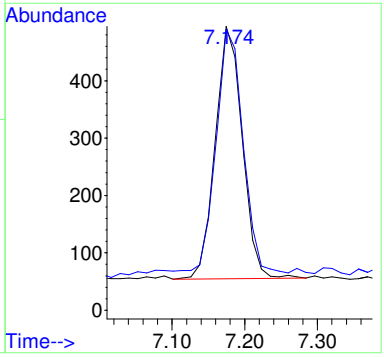


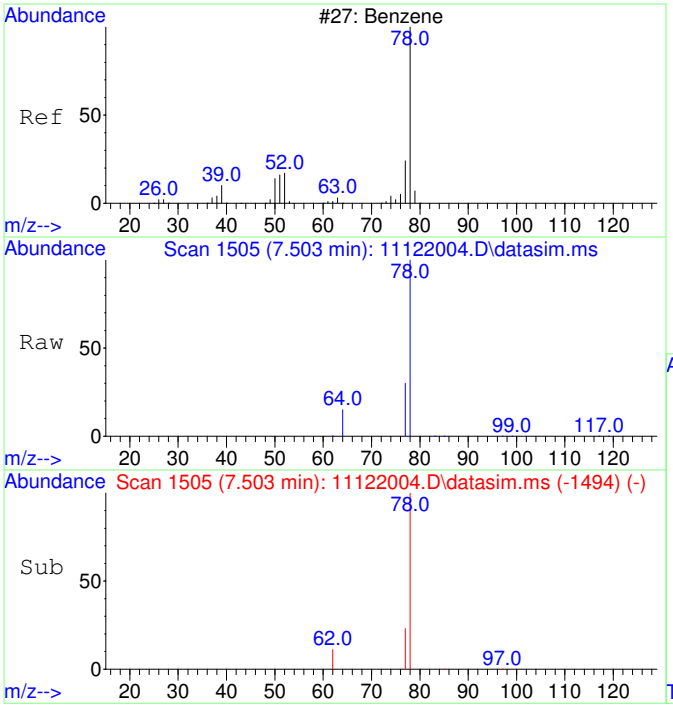


#8
Carbon tetrachloride
Concen: 44.17 ug/L
RT: 7.174 min Scan# 1478
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:117 Resp: 1139

Ion	Ratio	Lower	Upper
117	100		
119	94.6	66.4	126.4

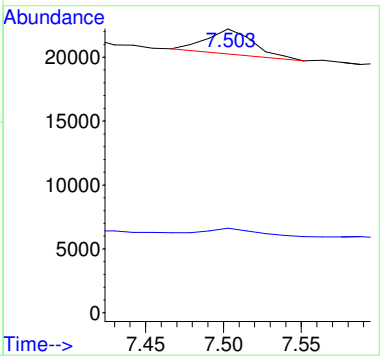


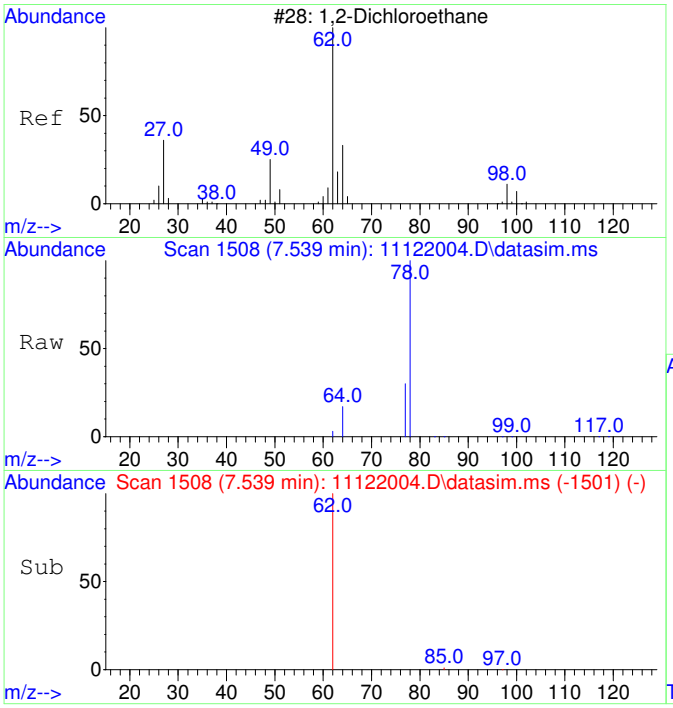


#9
Benzene
Concen: 54.65 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 78 Resp: 3775

Ion	Ratio	Lower	Upper
78	100		
77	68.8	0.0	53.2#

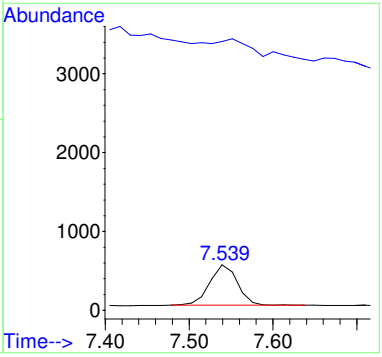


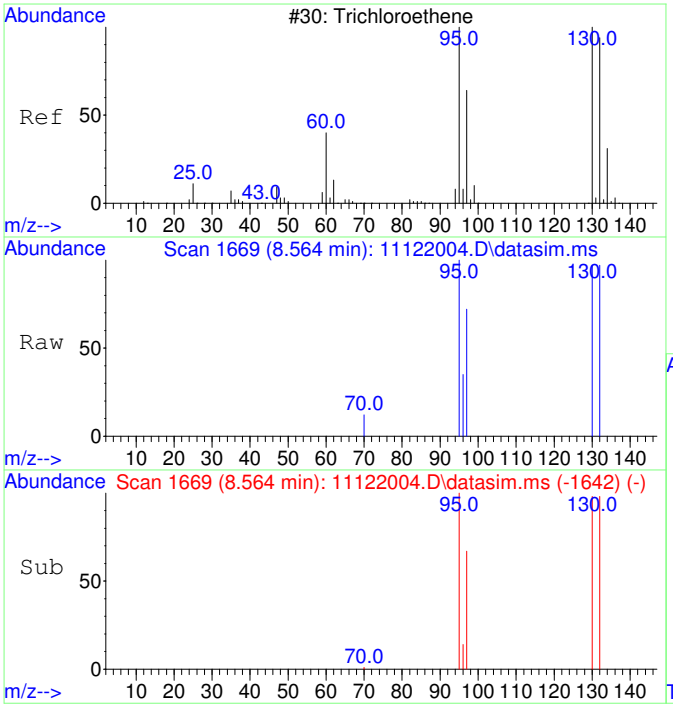


#10
1,2-Dichloroethane
Concen: 47.61 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 62 Resp: 1174

Ion	Ratio	Lower	Upper
62	100		
64	76.2	2.3	62.3#

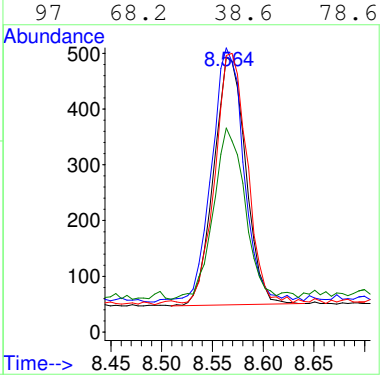


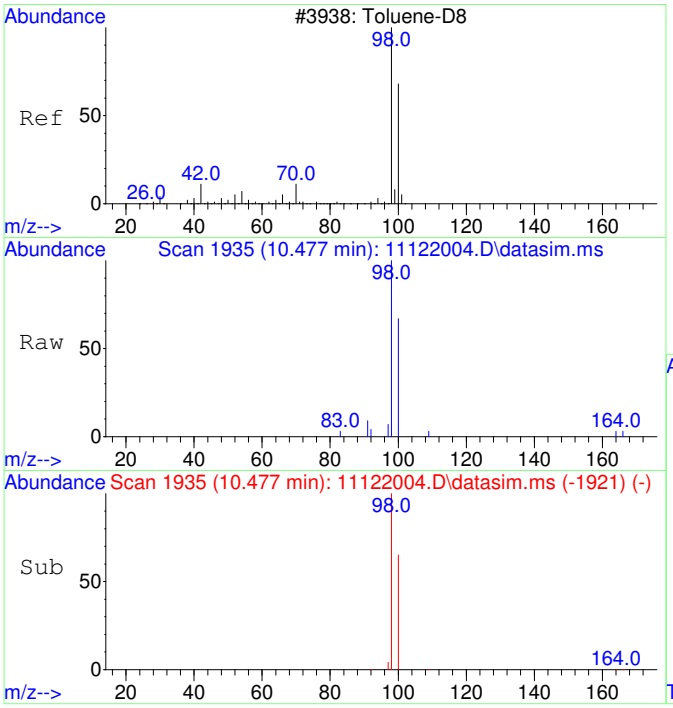


#11
Trichloroethene
Concen: 46.73 ug/L
RT: 8.564 min Scan# 1669
Delta R.T. -0.006 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:130 Resp: 972

Ion	Ratio	Lower	Upper
130	100		
95	103.4	60.7	120.7
132	100.2	76.0	116.0
97	68.2	38.6	78.6

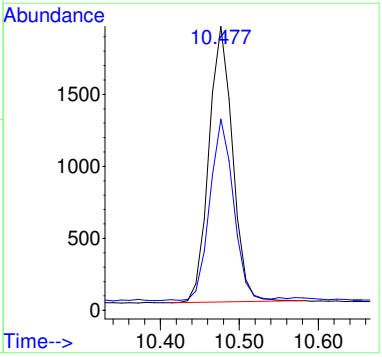


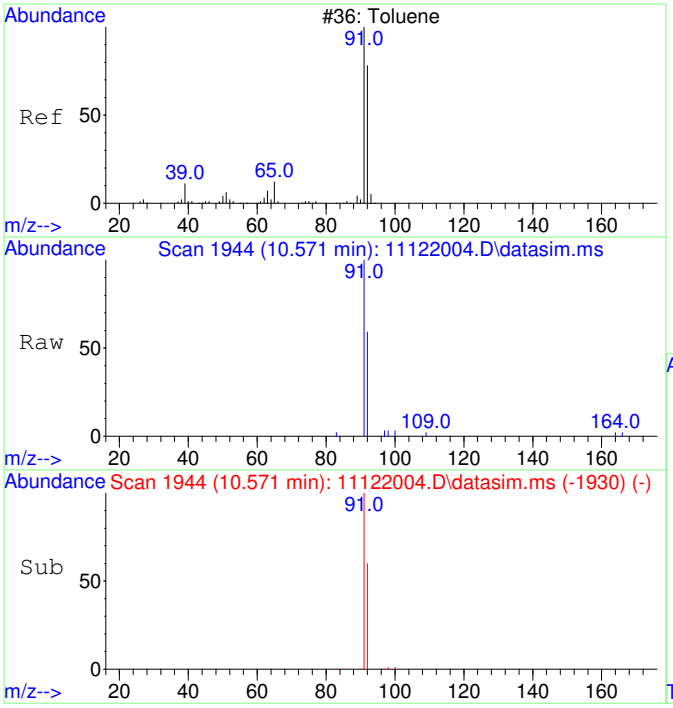


#12
Toluene-d8
Concen: 50.09 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 98 Resp: 3987

Ion	Ratio	Lower	Upper
98	100		
100	64.7	37.1	97.1

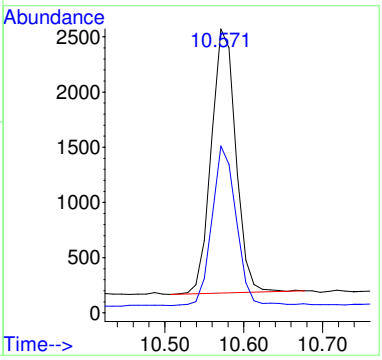


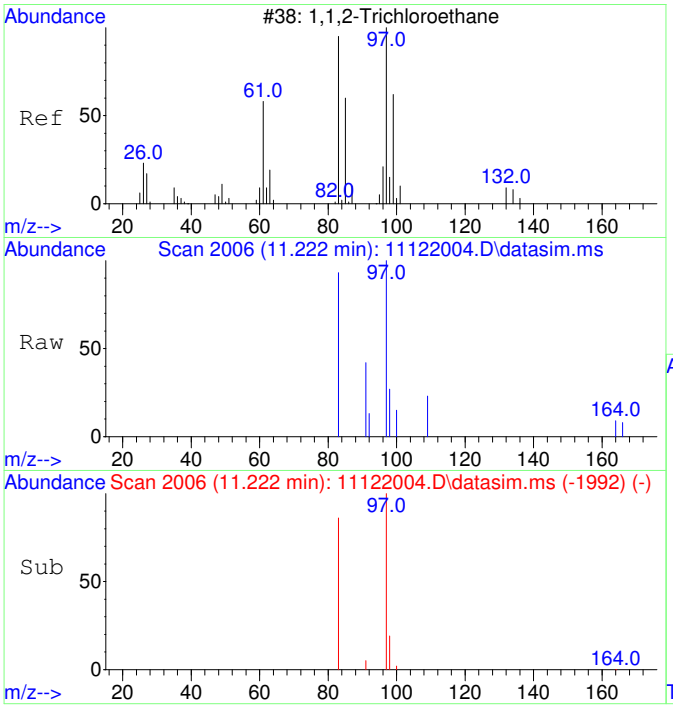


#13
Toluene
Concen: 50.78 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5153

Ion	Ratio	Lower	Upper
91	100		
92	58.8	29.9	89.9

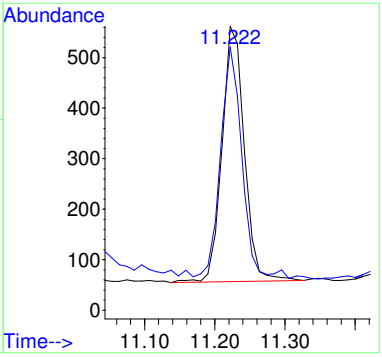


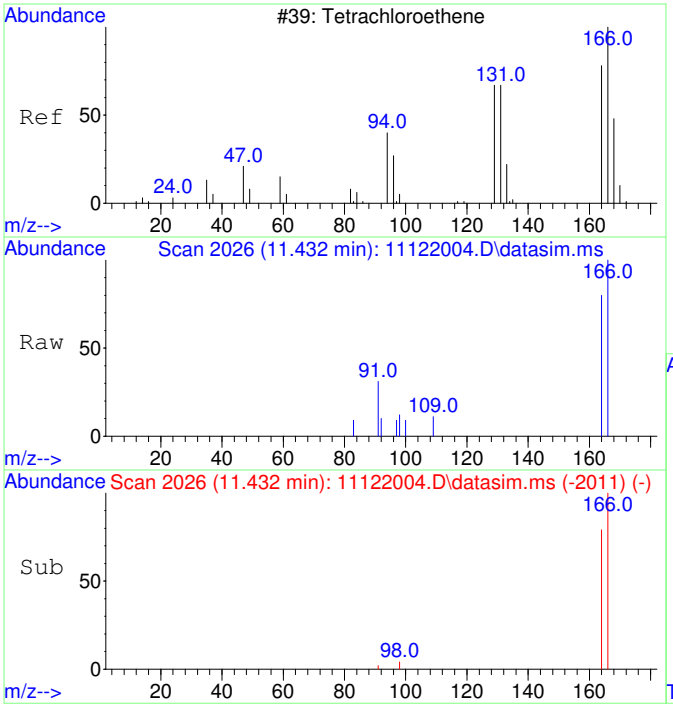


#14
1,1,2-Trichloroethane
Concen: 50.61 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 1119

Ion	Ratio	Lower	Upper
97	100		
83	84.0	51.2	111.2

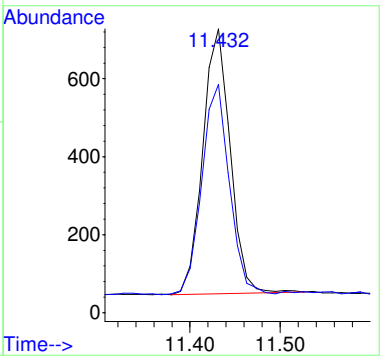


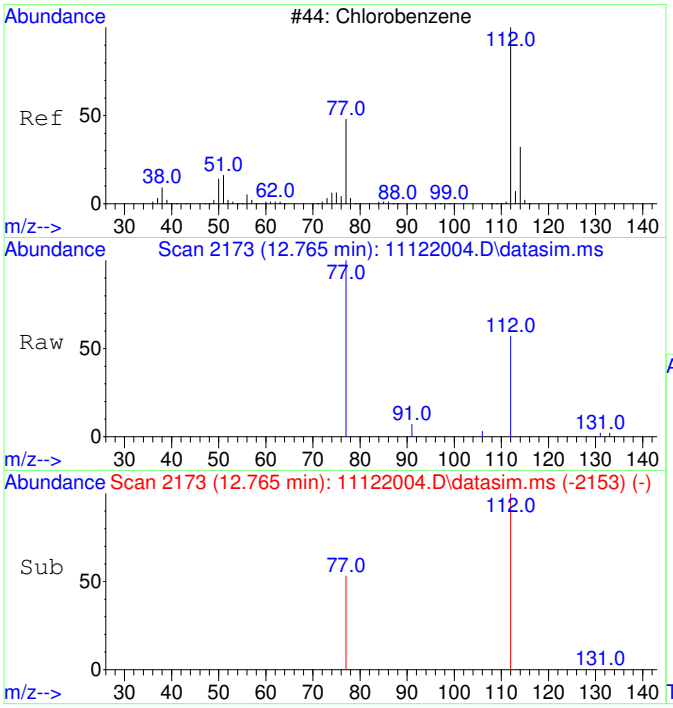


#15
Tetrachloroethene
Concen: 48.90 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:166 Resp: 1436

Ion	Ratio	Lower	Upper
166	100		
164	79.4	47.8	107.8

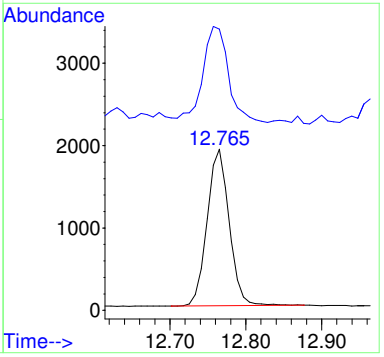


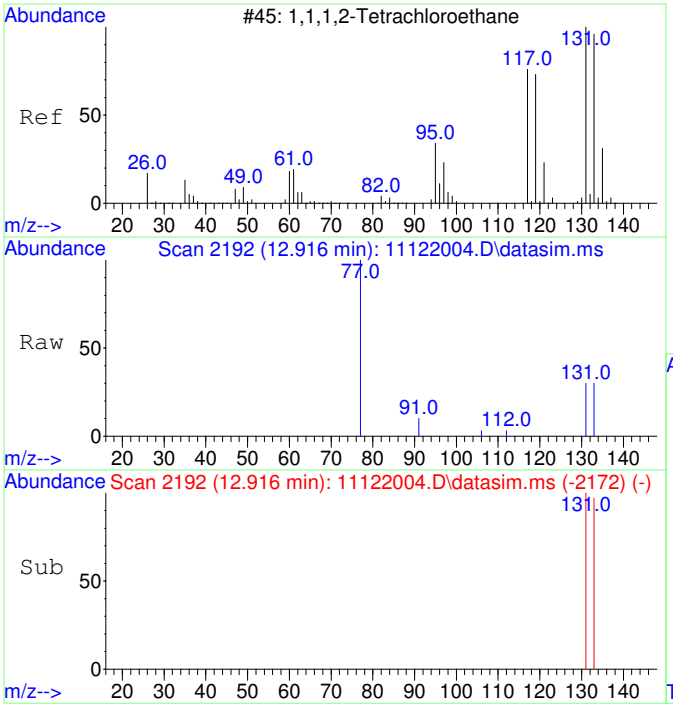


#16
Chlorobenzene
Concen: 52.70 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:112 Resp: 3829

Ion	Ratio	Lower	Upper
112	100		
77	71.3	23.6	83.6

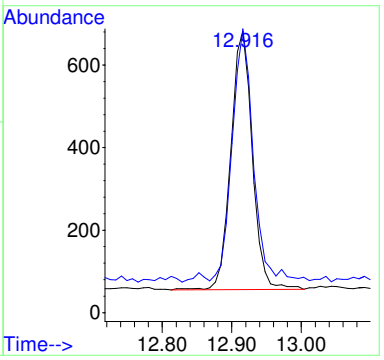


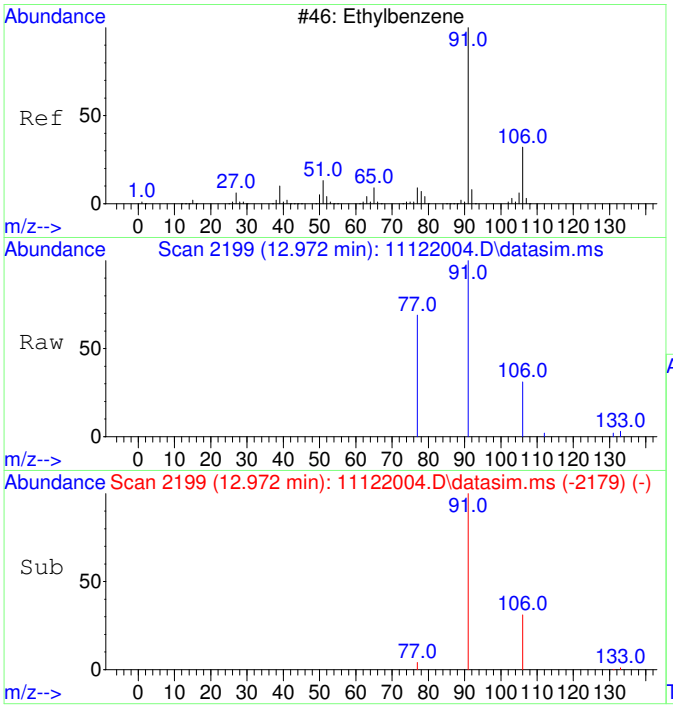


#17
1,1,1,2-Tetrachloroethane
Concen: 51.58 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:131 Resp: 1343

Ion	Ratio	Lower	Upper
131	100		
133	95.2	66.3	126.3

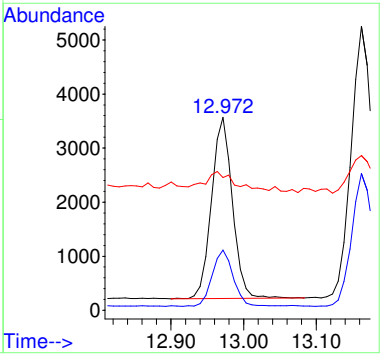


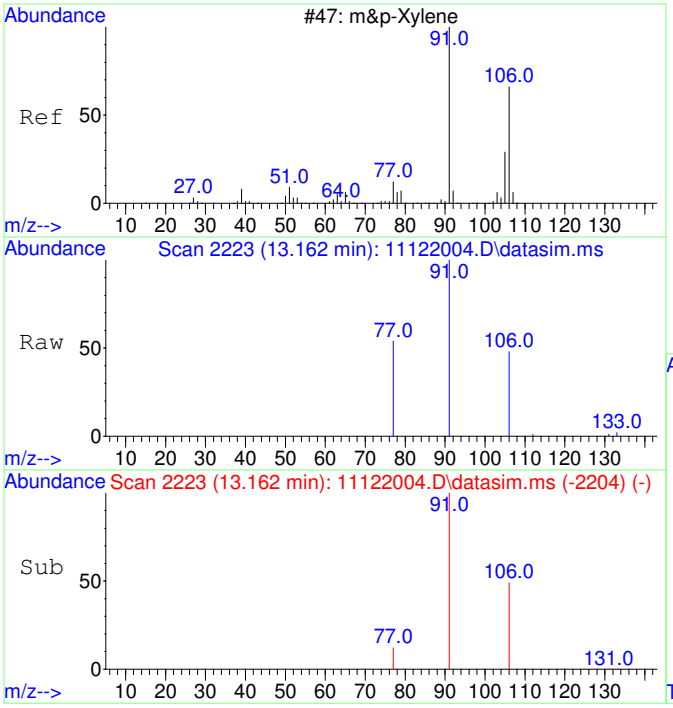


#18
Ethylbenzene
Concen: 54.19 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 6693

Ion	Ratio	Lower	Upper
91	100		
106	31.5	3.0	63.0
77	14.0	0.0	38.2

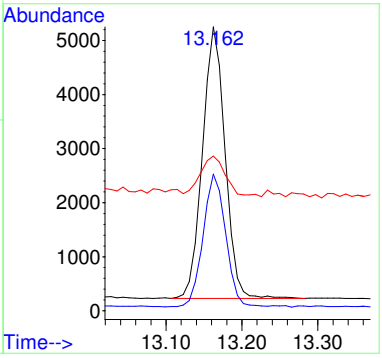


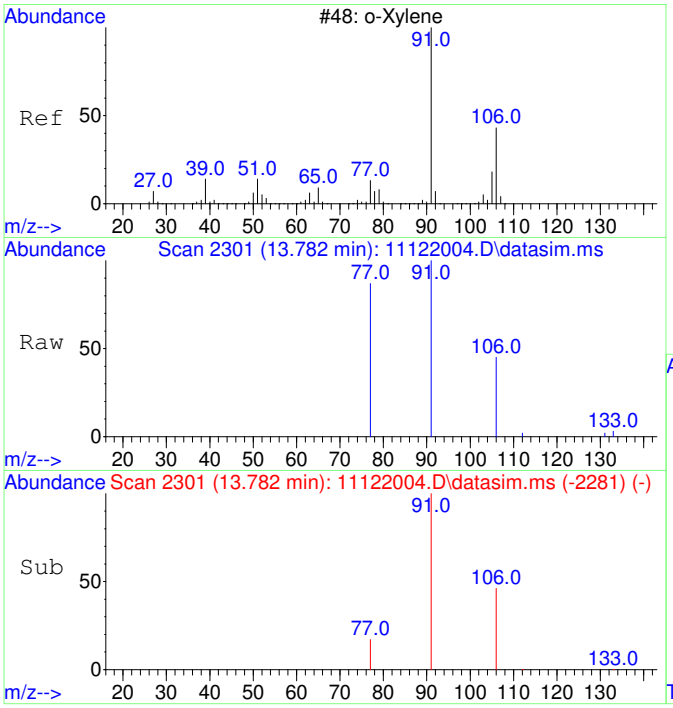


#19
m&p-Xylene
Concen: 107.56 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 10383

Ion	Ratio	Lower	Upper
91	100		
106	48.3	22.2	82.2
77	14.9	0.0	42.4

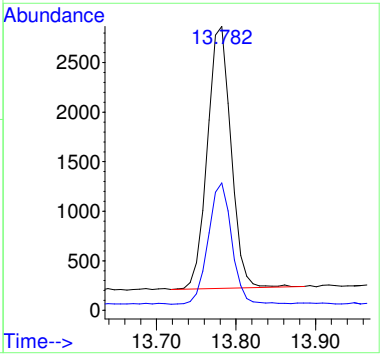


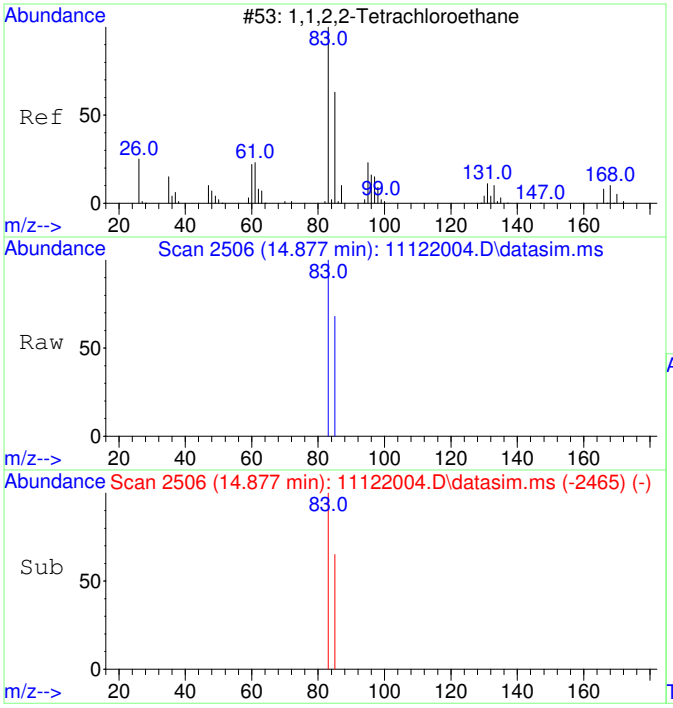


#20
o-Xylene
Concen: 52.85 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5451

Ion	Ratio	Lower	Upper
91	100		
106	45.7	19.2	79.2

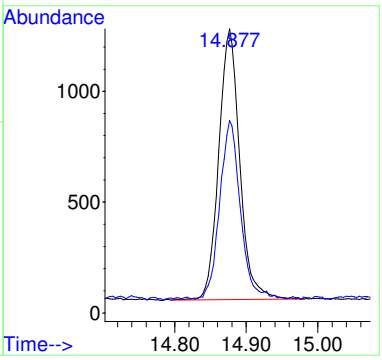


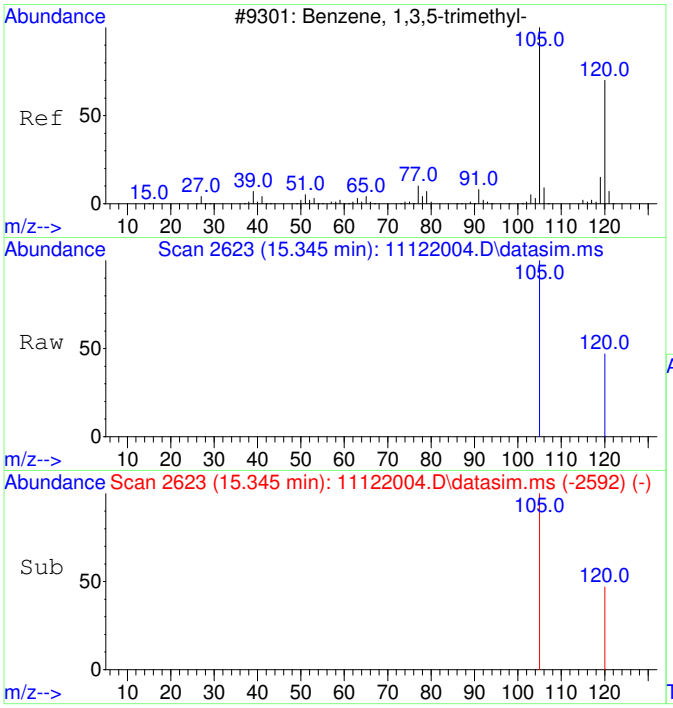


#21
1,1,2,2-Tetrachloroethane
Concen: 54.48 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. 0.004 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 2490

Ion	Ratio	Lower	Upper
83	100		
85	64.4	34.8	94.8

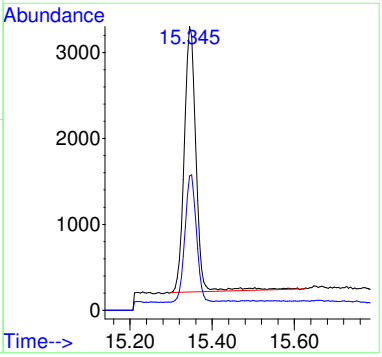


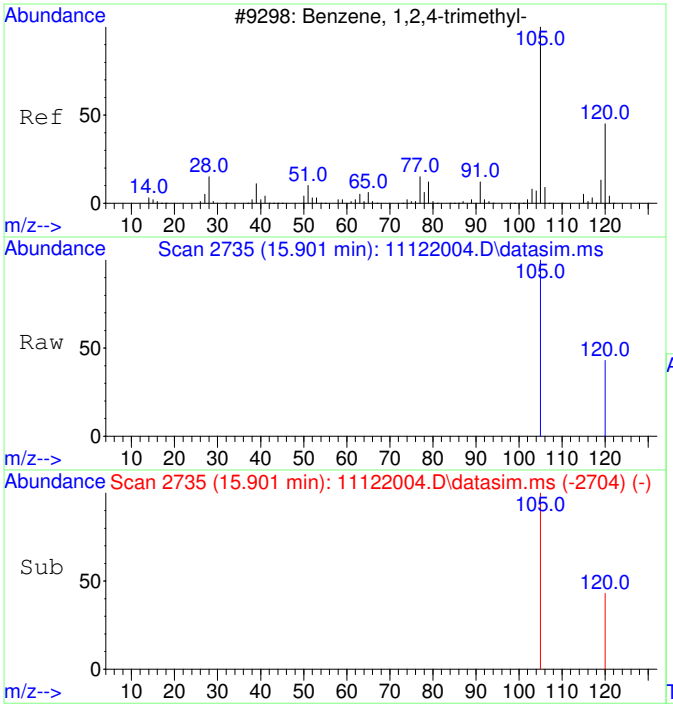


#22
1,3,5-Trimethylbenzene
Concen: 55.86 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:105 Resp: 6132

Ion	Ratio	Lower	Upper
105	100		
120	46.0	21.1	81.1

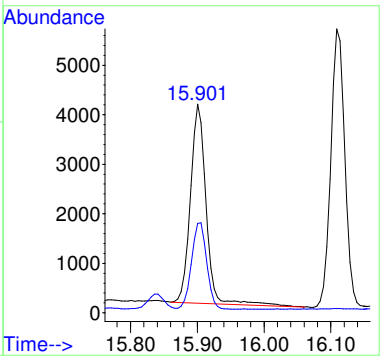


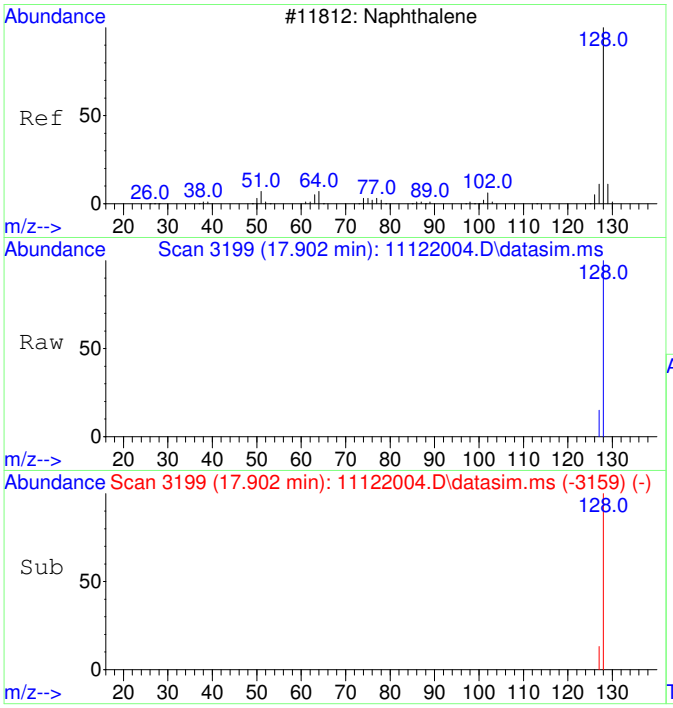


#23
1,2,4-Trimethylbenzene
Concen: 57.28 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:105 Resp: 6531

Ion	Ratio	Lower	Upper
105	100		
120	41.4	17.2	77.2

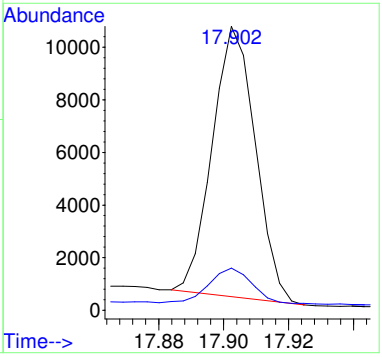


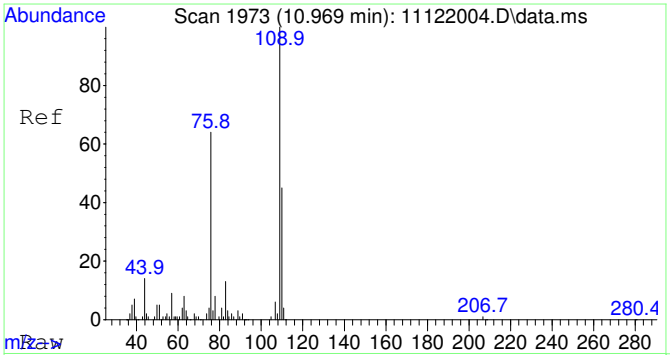


#24
Naphthalene
Concen: 52.44 ug/L
RT: 17.902 min Scan# 3199
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:128 Resp: 9451

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.5

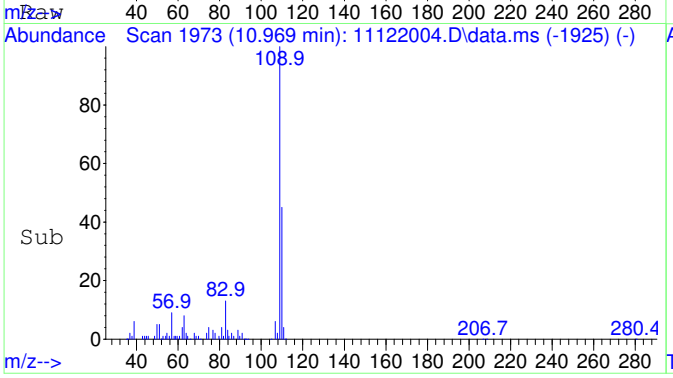


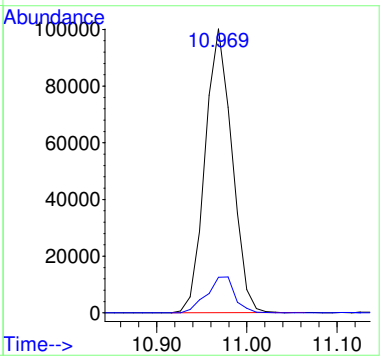


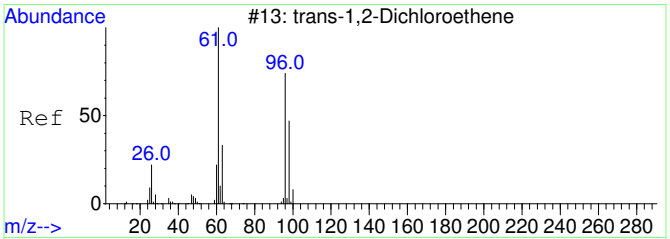
#25
2-Fluorotoluene SCAN
Concen: 5237.78 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:109 Resp: 207598

Ion	Ratio	Lower	Upper
109	100		
83	13.2	0.0	43.8



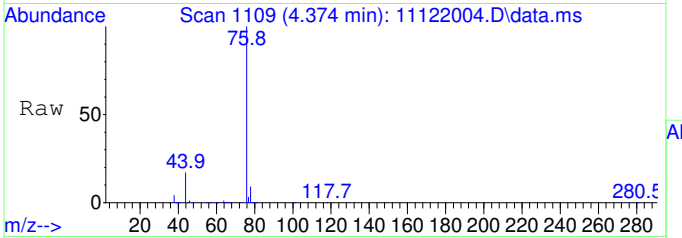


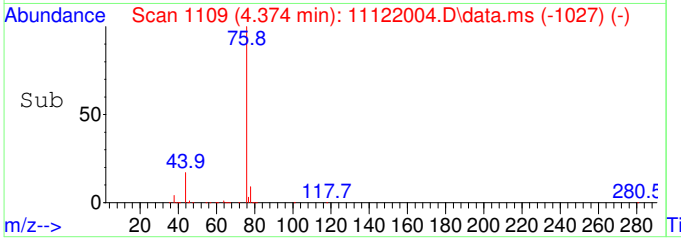


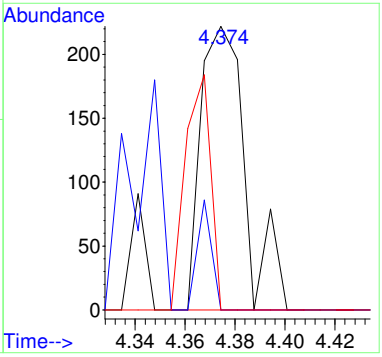
#27
trans-1,2-Dichloroethene SCAN
Concen: 26.50 ug/L
RT: 4.374 min Scan# 1109
Delta R.T. -0.027 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

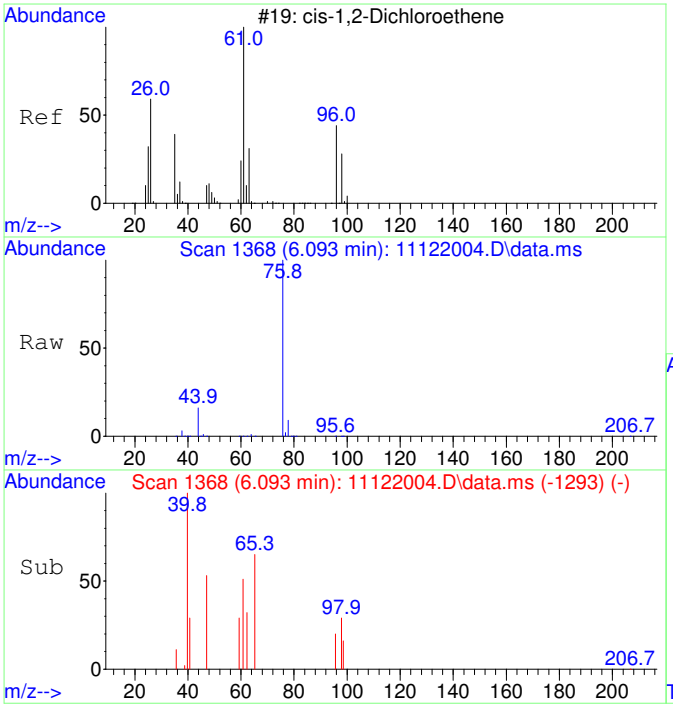
Tgt Ion: 61 Resp: 276

Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.0	109.0#
98	47.1	20.5	80.5





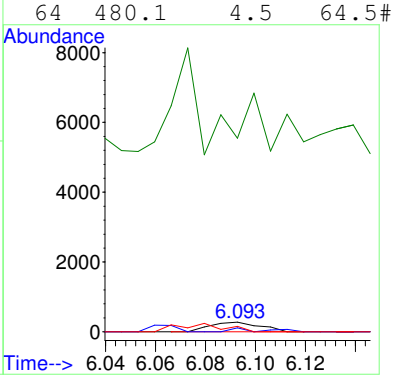


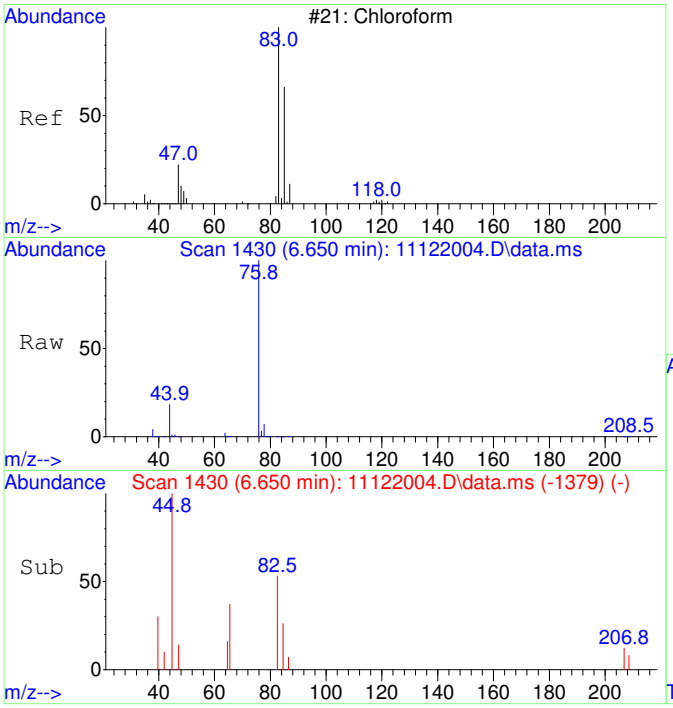


#29
cis-1,2-Dichloroethene SCAN
Concen: 29.89 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 61 Resp: 386

Ion	Ratio	Lower	Upper
61	100		
96	23.8	39.9	99.9#
98	80.8	13.5	73.5#
64	480.1	4.5	64.5#

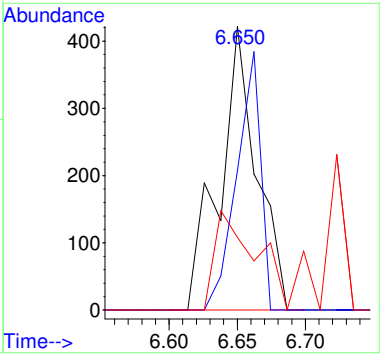


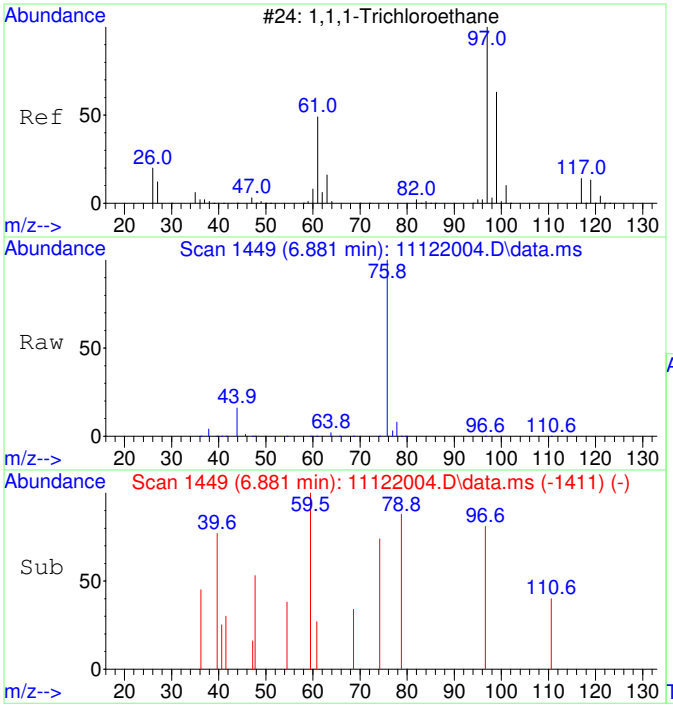


#30
Chloroform SCAN
Concen: 57.32 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 803

Ion	Ratio	Lower	Upper
83	100		
85	58.3	34.6	94.6
47	0.0	0.0	53.4

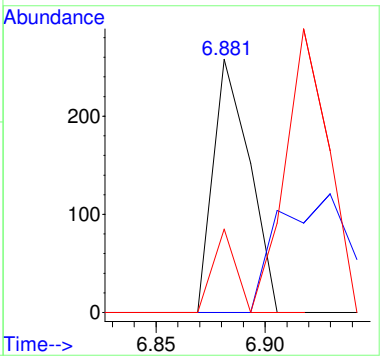


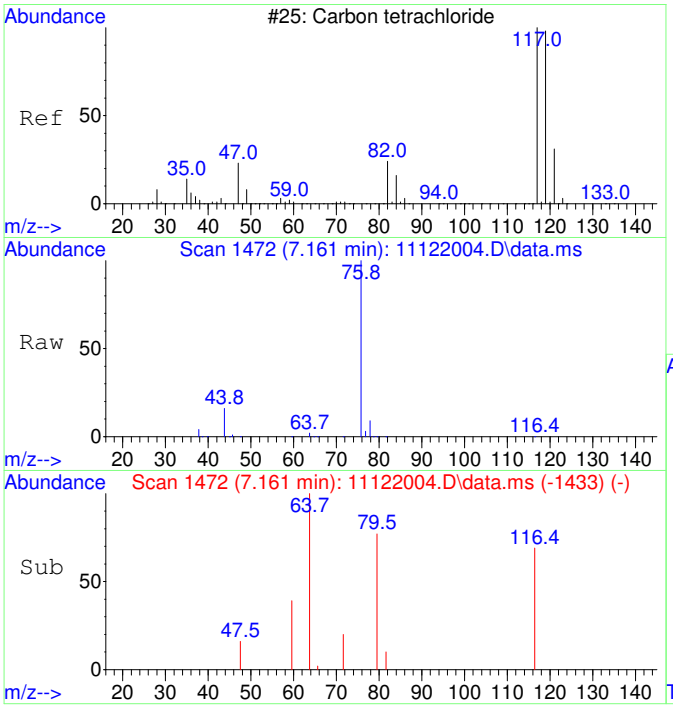


#31
1,1,1-Trichloroethane SCAN
Concen: 23.42 ug/L
RT: 6.881 min Scan# 1449
Delta R.T. -0.037 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 299

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

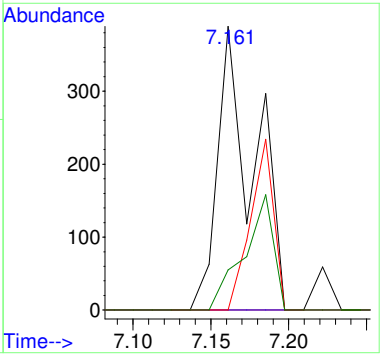


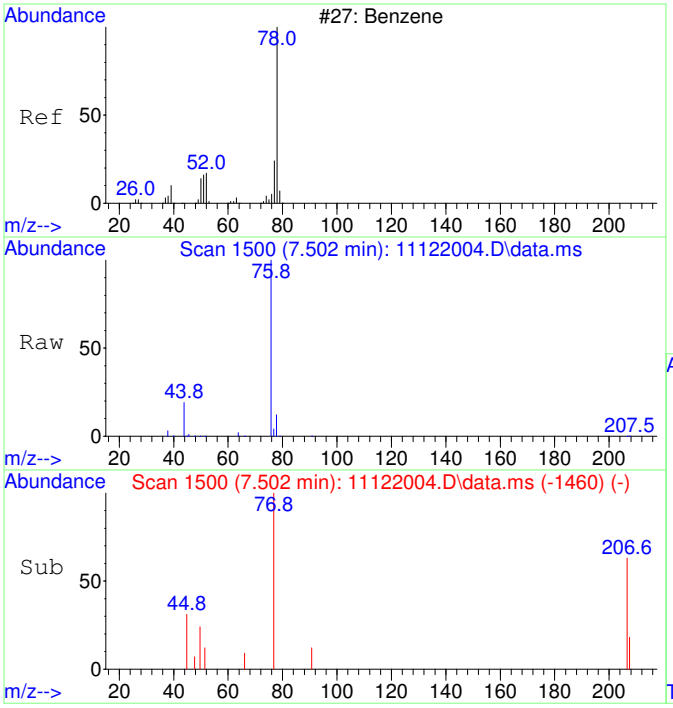


#32
Carbon tetrachloride SCAN
Concen: 47.54 ug/L
RT: 7.161 min Scan# 1472
Delta R.T. -0.024 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:117 Resp: 633

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

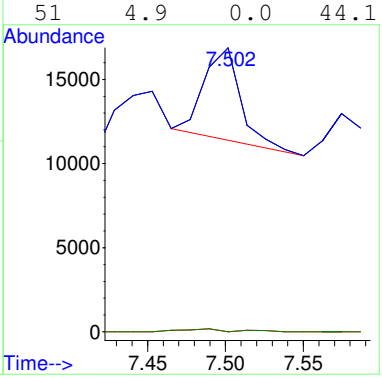


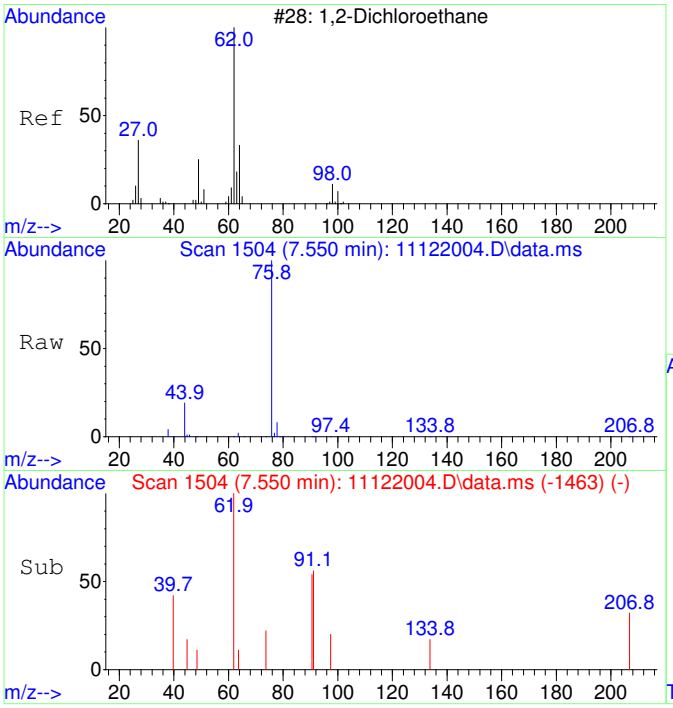


#33
Benzene SCAN
Concen: 236.46 ug/L
RT: 7.502 min Scan# 1500
Delta R.T. -0.012 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 78 Resp: 8311

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	4.9	0.0	47.9
51	4.9	0.0	44.1

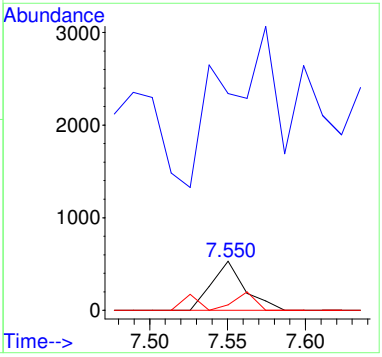


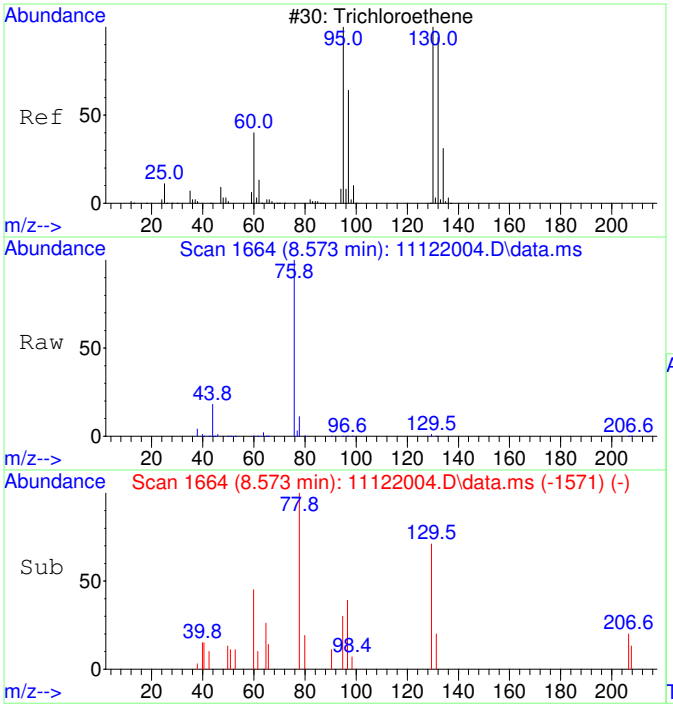


#34
1,2-Dichloroethane SCAN
Concen: 60.25 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 62 Resp: 782

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

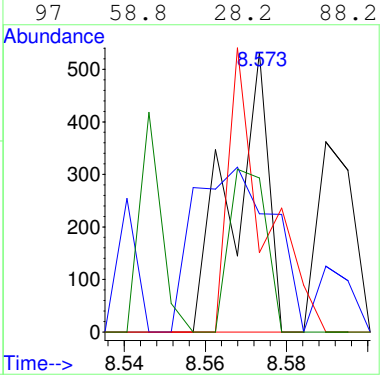


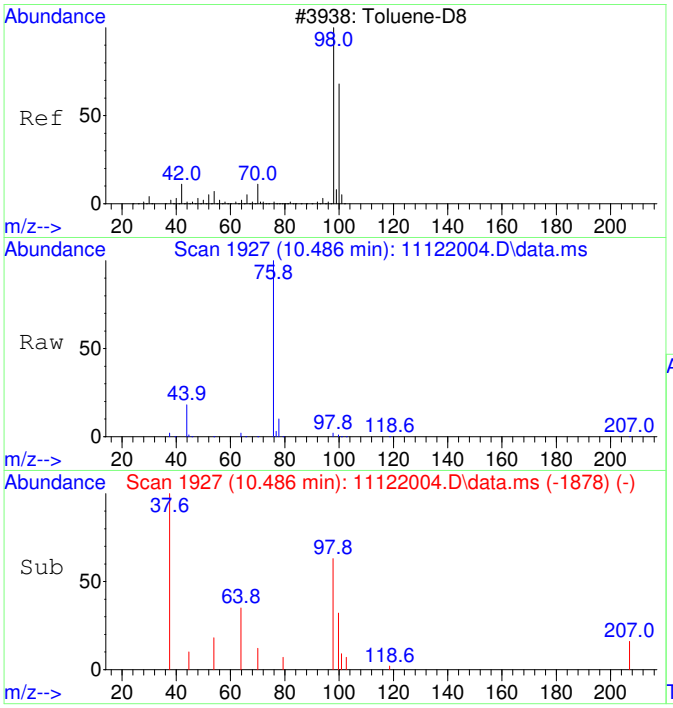


#35
Trichloroethene SCAN
Concen: 34.68 ug/L
RT: 8.573 min Scan# 1664
Delta R.T. 0.005 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:130 Resp: 335

Ion	Ratio	Lower	Upper
130	100		
95	149.6	60.5	120.5#
132	99.1	59.6	119.6
97	58.8	28.2	88.2

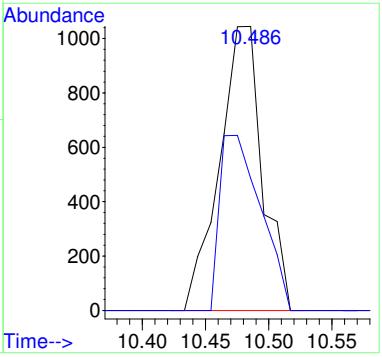


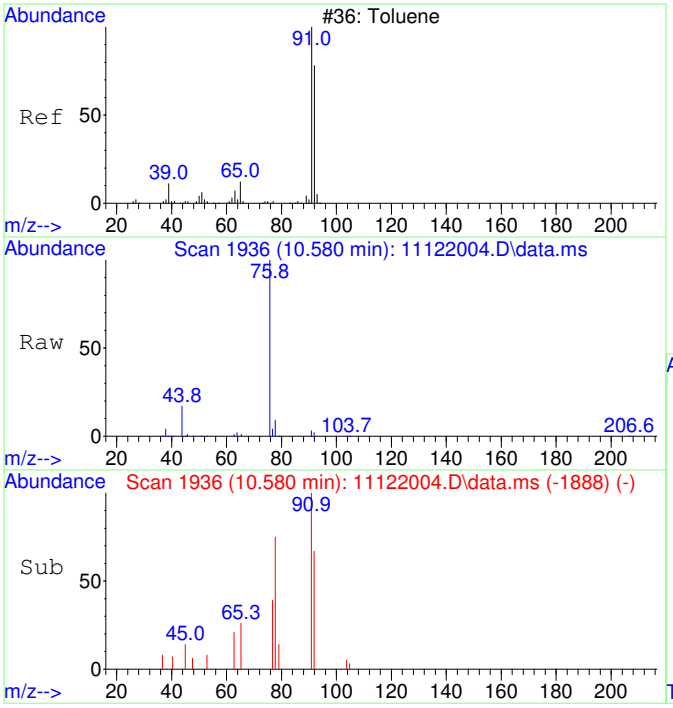


#36
Toluene-d8 SCAN
Concen: 64.03 ug/L
RT: 10.486 min Scan# 1927
Delta R.T. 0.010 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 98 Resp: 2482

Ion	Ratio	Lower	Upper
98	100		
100	58.9	40.0	100.0

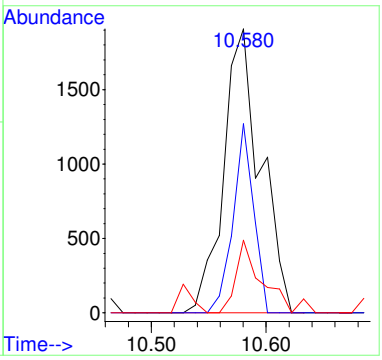


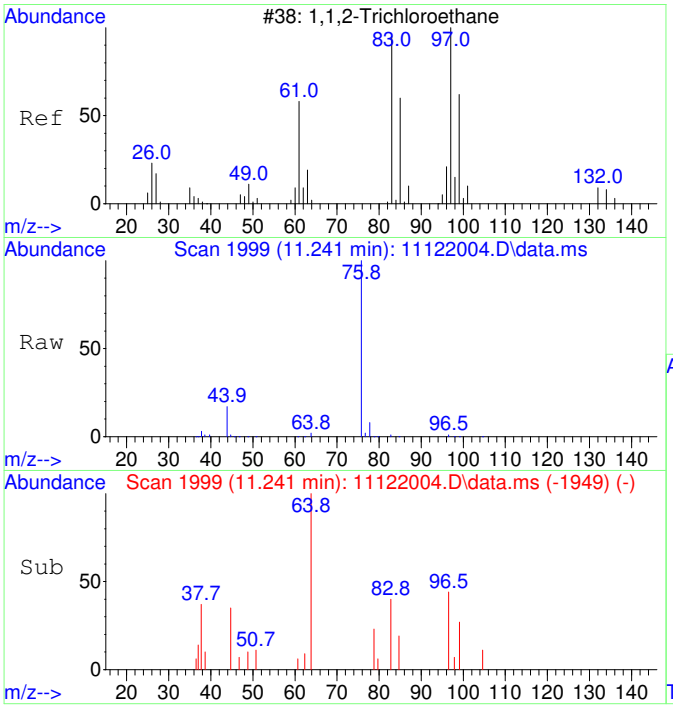


#37
Toluene SCAN
Concen: 86.20 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 4279

Ion	Ratio	Lower	Upper
91	100		
92	36.8	28.3	88.3
65	18.6	0.0	41.0

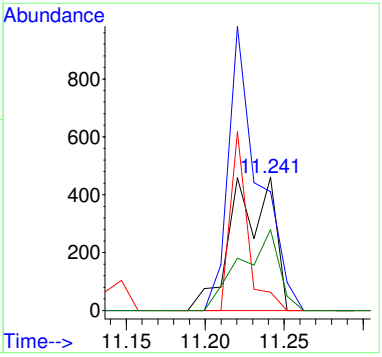


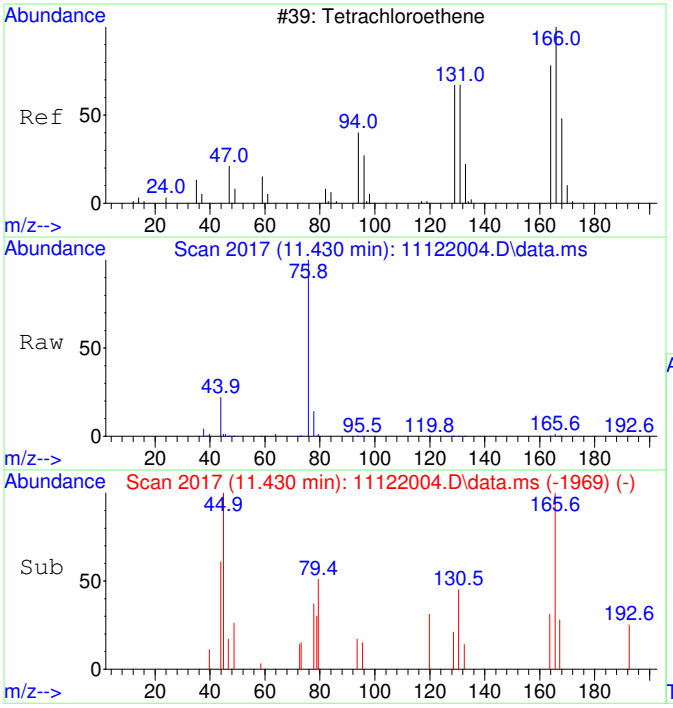


#38
1,1,2-Trichloroethane SCAN
Concen: 74.76 ug/L
RT: 11.241 min Scan# 1999
Delta R.T. 0.021 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 97 Resp: 833

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.7	117.7#
61	0.0	32.1	92.1#
99	56.8	36.7	96.7

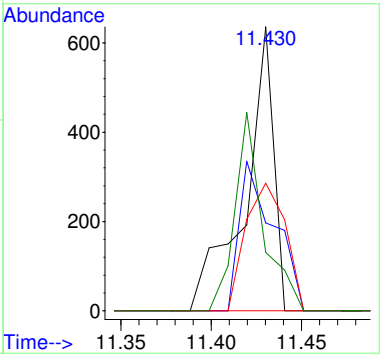


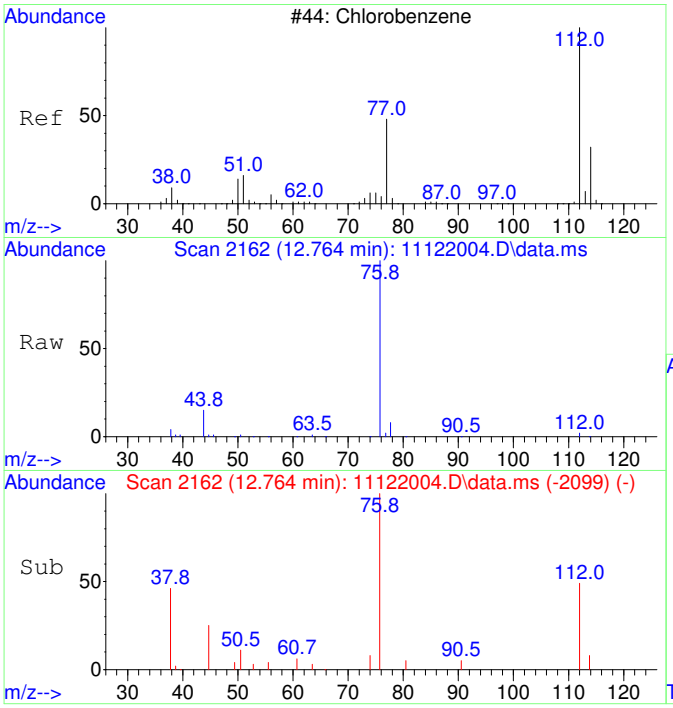


#39
Tetrachloroethene SCAN
Concen: 59.03 ug/L
RT: 11.430 min Scan# 2017
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:166 Resp: 704

Ion	Ratio	Lower	Upper
166	100		
164	63.6	50.9	110.9
131	62.2	38.7	98.7
129	68.6	41.8	101.8

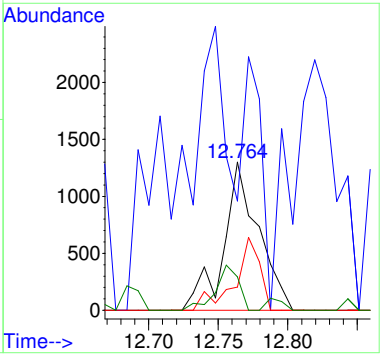


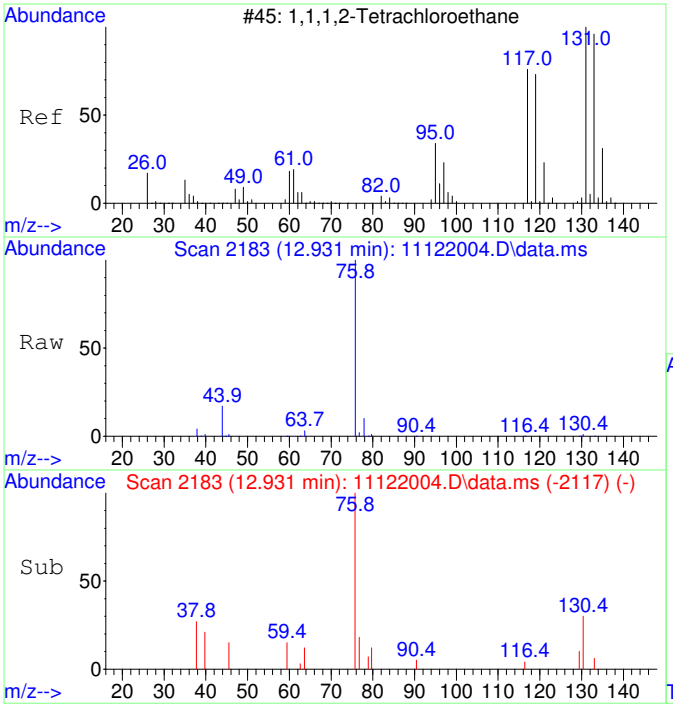


#40
Chlorobenzene SCAN
Concen: 66.80 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:112 Resp: 2266

Ion	Ratio	Lower	Upper
112	100		
77	65.9	28.2	88.2
114	0.0	2.3	62.3#
51	20.1	0.0	50.1

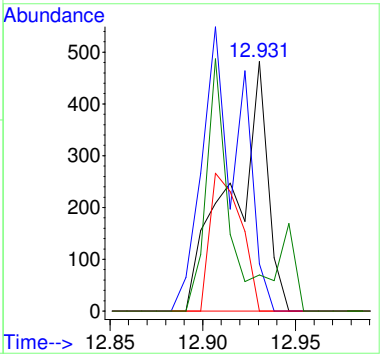


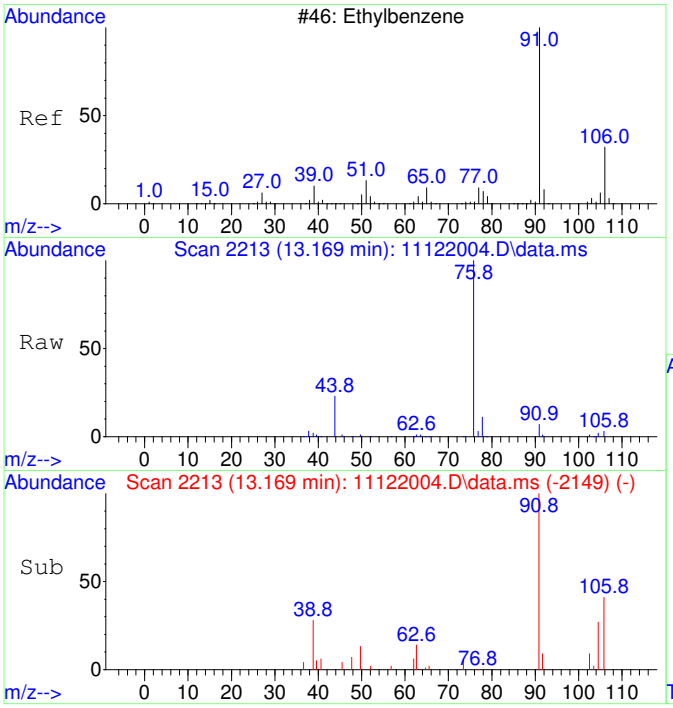


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 51.94 ug/L
RT: 12.931 min Scan# 2183
Delta R.T. 0.024 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:131 Resp: 652

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#

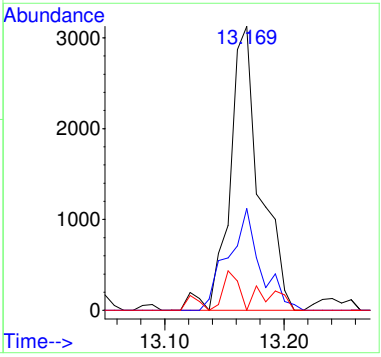


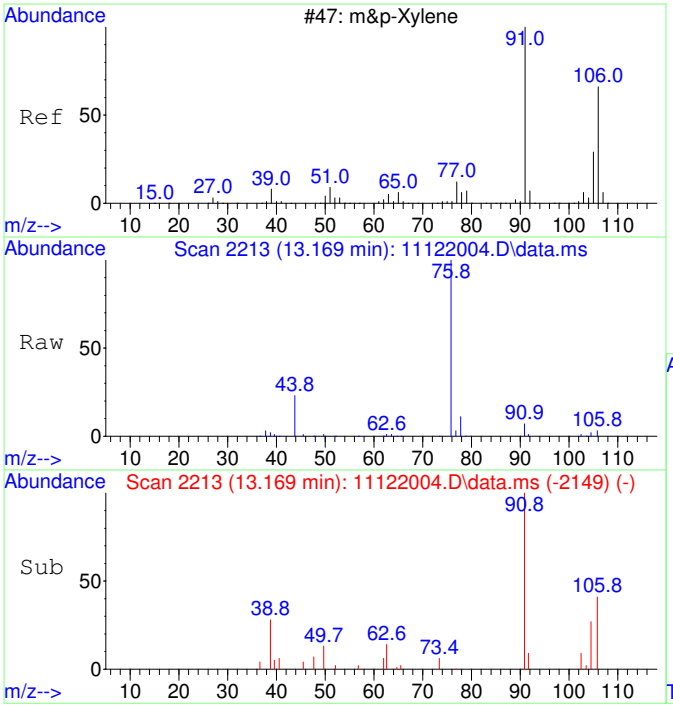


#42
Ethylbenzene SCAN
Concen: 60.75 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5494

Ion	Ratio	Lower	Upper
91	100		
106	38.8	23.1	83.1
51	6.4	0.0	40.1

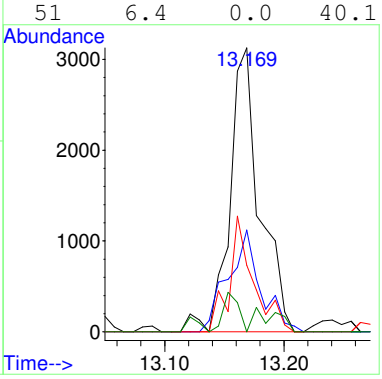


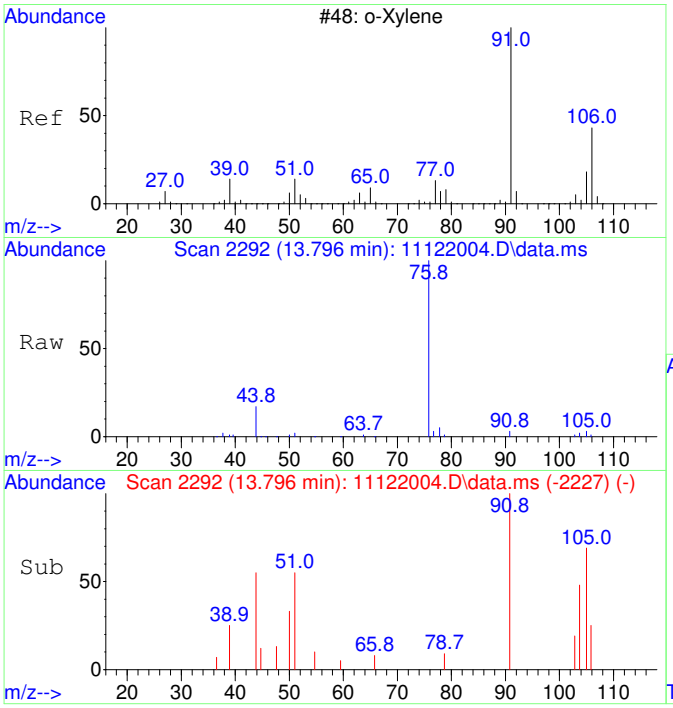


#43
m&p-Xylene SCAN
Concen: 60.75 ug/L
RT: 13.169 min Scan# 2213
Delta R.T. 0.008 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 5494

Ion	Ratio	Lower	Upper
91	100		
106	38.8	23.1	83.1
105	32.6	0.0	54.7
51	6.4	0.0	40.1

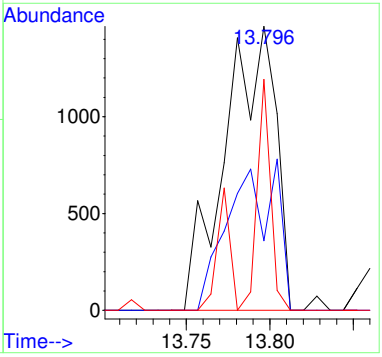


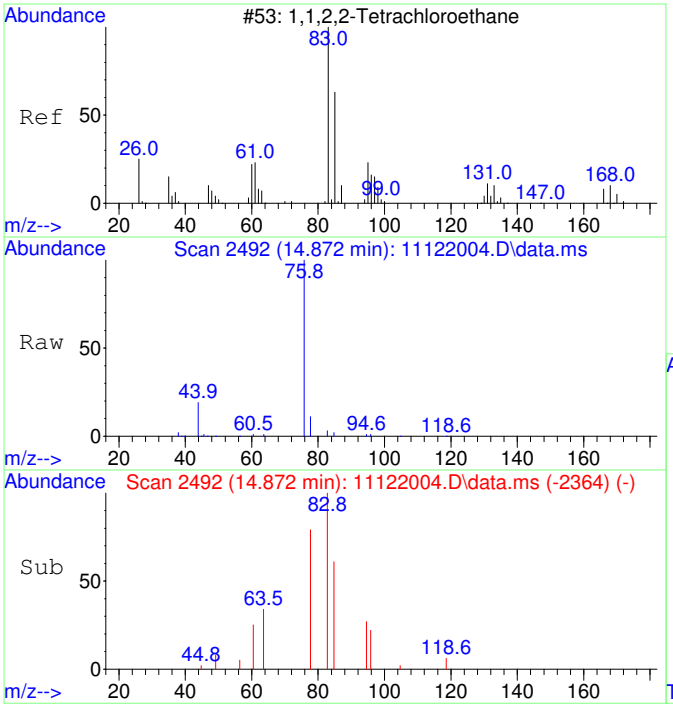


#44
o-Xylene SCAN
Concen: 64.27 ug/L
RT: 13.796 min Scan# 2292
Delta R.T. 0.016 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 91 Resp: 3111

Ion	Ratio	Lower	Upper
91	100		
106	48.4	18.0	78.0
105	21.3	0.0	56.6

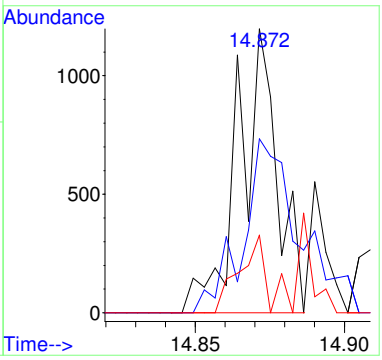


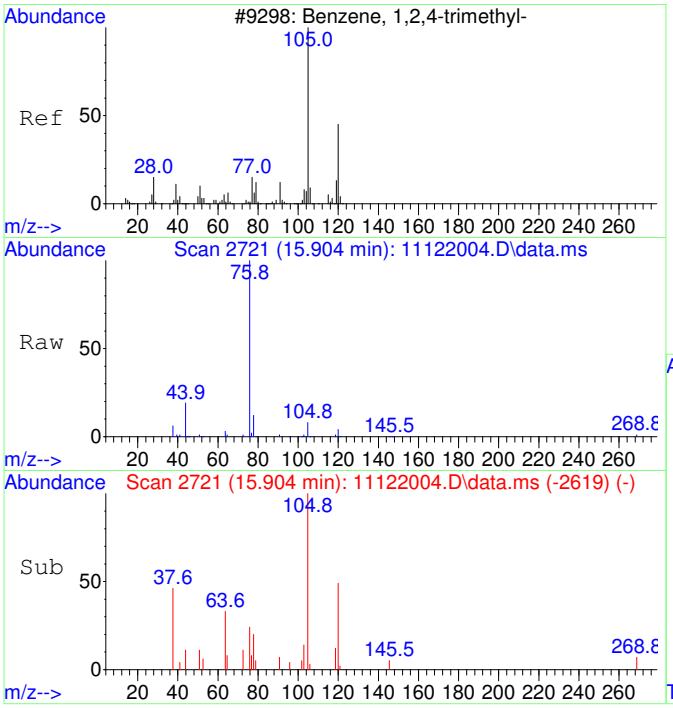


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 46.14 ug/L
RT: 14.872 min Scan# 2492
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion: 83 Resp: 1089

Ion	Ratio	Lower	Upper
83	100		
85	88.7	35.9	95.9
95	17.1	0.0	47.4

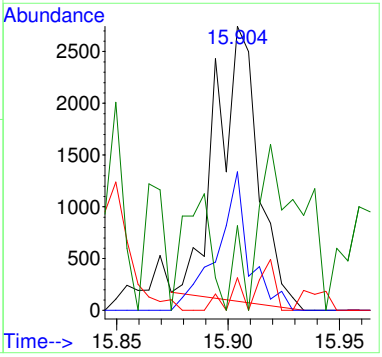


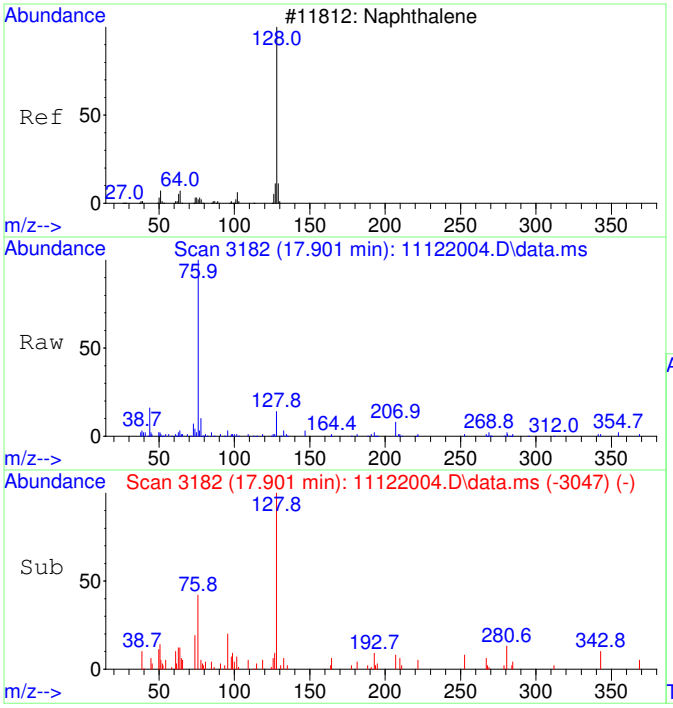


#47
1,2,4-Trimethylbenzene SCAN
Concen: 66.19 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:105 Resp: 3455

Ion	Ratio	Lower	Upper
105	100		
120	38.4	16.9	76.9
119	0.0	0.0	41.9
77	28.1	0.0	42.3

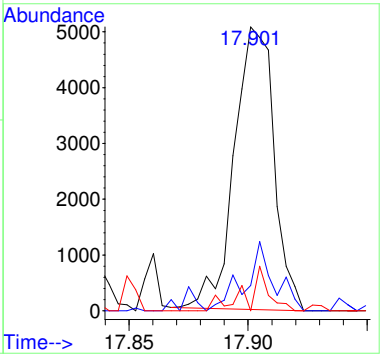




#48
Naphthalene SCAN
Concen: 74.30 ug/L
RT: 17.901 min Scan# 3182
Delta R.T. -0.000 min
Lab File: 11122004.D
Acq: 12 Nov 2020 9:39

Tgt Ion:128 Resp: 5869

Ion	Ratio	Lower	Upper
128	100		
127	17.7	0.0	44.0
129	8.7	0.0	40.8



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 20316A
Client: California Site Cleanup Section 3
Project: MEW OU1 FY2021 Vapor Intrusion Investigation
Instrument ID: AG5975CV
Calibration: 2008017
Sequence: S20K055

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S20K055-CRL1	1,1-Dichloroethene	50.0	48.7	97	ug/L	60 - 140
	trans-1,2-Dichloroethene	50.0	49.8	100	ug/L	60 - 140
	1,1-Dichloroethane	50.0	50.4	101	ug/L	60 - 140
	cis-1,2-Dichloroethene	50.0	49.1	98	ug/L	60 - 140
	Chloroform	50.0	48.2	96	ug/L	60 - 140
	Trichloroethene	50.0	47.8	96	ug/L	60 - 140
	Tetrachloroethene	50.0	48.6	97	ug/L	60 - 140
	Toluene-d8	50.0	49.5	99	ug/L	60 - 140

QLS REPORT

Instrument Name: AG5975C
Sample Name: S20K055-CRL1
Misc Info: 2030073 0.05 mg/L
Date Acquired: 11/13/20 11:56
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	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	3.090	50.0	48.73	97%	60	140	pass
3)	trans-1,2-Dichloroethene	4.396	50.0	49.84	100%	60	140	pass
4)	1,1-Dichloroethane	5.099	50.0	50.39	101%	60	140	pass
5)	cis-1,2-Dichloroethene	6.094	50.0	49.14	98%	60	140	pass
6)	Chloroform	6.664	50.0	48.22	96%	60	140	pass
7)	1,1,1-Trichloroethane	6.919	50.0	46.65	93%	60	140	pass
8)	Carbon tetrachloride	7.187	50.0	45.36	91%	60	140	pass
10)	1,2-Dichloroethane	7.552	50.0	48.86	98%	60	140	pass
11)	Trichloroethene	8.569	50.0	47.79	96%	60	140	pass
12)	Toluene-d8	10.477	50.0	49.50	99%	60	140	pass
13)	Toluene	10.571	50.0	50.08	100%	60	140	pass
14)	1,1,2-Trichloroethane	11.222	50.0	48.03	96%	60	140	pass
15)	Tetrachloroethene	11.421	50.0	48.60	97%	60	140	pass
16)	Chlorobenzene	12.757	50.0	52.03	104%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.908	50.0	48.99	98%	60	140	pass
18)	Ethylbenzene	12.964	50.0	52.91	106%	60	140	pass
19)	m&p-Xylene	13.162	100.0	105.95	106%	60	140	pass
20)	o-Xylene	13.774	50.0	52.24	104%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.873	50.0	50.75	102%	60	140	pass
22)	1,3,5-Trimethylbenzene	15.345	50.0	52.70	105%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.896	50.0	53.54	107%	60	140	pass
24)	Naphthalene	17.903	50.0	50.74	101%	60	140	pass

Quantitation Report (Not Reviewed)

Table of Contents

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132004.D
Acq On : 13 Nov 2020 11:56
InstName : AG5975C
Operator : TD
Sample : S20K055-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 16 08:18:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.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	10.970	109	460945	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	10.477	98	4467	49.50 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery =	0.99%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	3.090	61	1304	70.85 ug/L	91
3] trans-1,2-Dichloroethene	4.382	61	1060	49.84 ug/L	87
4] 1,1-Dichloroethane	5.086	63	1334	50.39 ug/L	64
5] cis-1,2-Dichloroethene	6.088	61	1373	49.14 ug/L	99
6] Chloroform	6.651	83	1379	48.22 ug/L	98
7] 1,1,1-Trichloroethane	6.907	97	1449	46.65 ug/L	99
8] Carbon tetrachloride	7.187	117	1326	45.36 ug/L	99
9] Benzene	7.503	78	4218	53.86 ug/L	51
10] 1,2-Dichloroethane	7.539	62	1366	48.86 ug/L	69
11] Trichloroethene	8.569	130	1127	47.79 ug/L	94
13] Toluene	10.571	91	5761	50.08 ug/L	99
14] 1,1,2-Trichloroethane	11.222	97	1204	48.03 ug/L	96
15] Tetrachloroethene	11.432	166	1618	48.60 ug/L	100
16] Chlorobenzene	12.765	112	4286	52.03 ug/L	82
17] 1,1,1,2-Tetrachloroethane	12.916	131	1446	48.99 ug/L	95
18] Ethylbenzene	12.972	91	7409	52.91 ug/L	96
19] m&p-Xylene	13.162	91	11595	105.95 ug/L	95
20] o-Xylene	13.782	91	6108	52.24 ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.877	83	2630	50.75 ug/L	99
22] 1,3,5-Trimethylbenzene	15.345	105	6559	52.70 ug/L	95
23] 1,2,4-Trimethylbenzene	15.901	105	6921	53.54 ug/L	93
24] Naphthalene	17.902	128	10366	50.74 ug/L	97
25) 2-Fluorotoluene SCAN	10.969	109	236195	5256.53 ug/L	97
27) trans-1,2-Dichloroethe...	4.394	61	756	64.02 ug/L #	71
29) cis-1,2-Dichloroethene...	6.093	61	638	43.57 ug/L #	1
30) Chloroform SCAN	6.650	83	908	57.18 ug/L #	62
31) 1,1,1-Trichloroethane ...	6.906	97	426	29.44 ug/L #	11
32) Carbon tetrachloride SCAN	7.185	117	425	28.15 ug/L	75
33) Benzene SCAN	7.514	78	7688	192.94 ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	1135	77.14 ug/L #	8
35) Trichloroethene SCAN	8.579	130	829	75.71 ug/L #	38
36) Toluene-d8 SCAN	10.475	98	3579	81.45 ug/L	70
37) Toluene SCAN	10.580	91	4468	79.39 ug/L #	76
38) 1,1,2-Trichloroethane ...	11.252	97	984	77.90 ug/L #	13
39) Tetrachloroethene SCAN	11.409	166	301	22.26 ug/L #	1
40) Chlorobenzene SCAN	12.764	112	1853	48.19 ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.931	131	351	24.66 ug/L #	58
42) Ethylbenzene SCAN	13.161	91	7190	70.13 ug/L	90
43) m&p-Xylene SCAN	13.161	91	7190	70.13 ug/L	86
44) o-Xylene SCAN	13.797	91	4107	74.84 ug/L #	36
45) 1,1,2,2-Tetrachloroeth...	14.879	83	791	29.56 ug/L #	20
46) 1,3,5-Trimethylbenzene...	15.343	105	3622	62.62 ug/L	88
47) 1,2,4-Trimethylbenzene...	15.904	105	4183	70.68 ug/L	86
48) Naphthalene SCAN	17.897	128	5271	58.86 ug/L	95

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

Quantitation Report (Not Reviewed)

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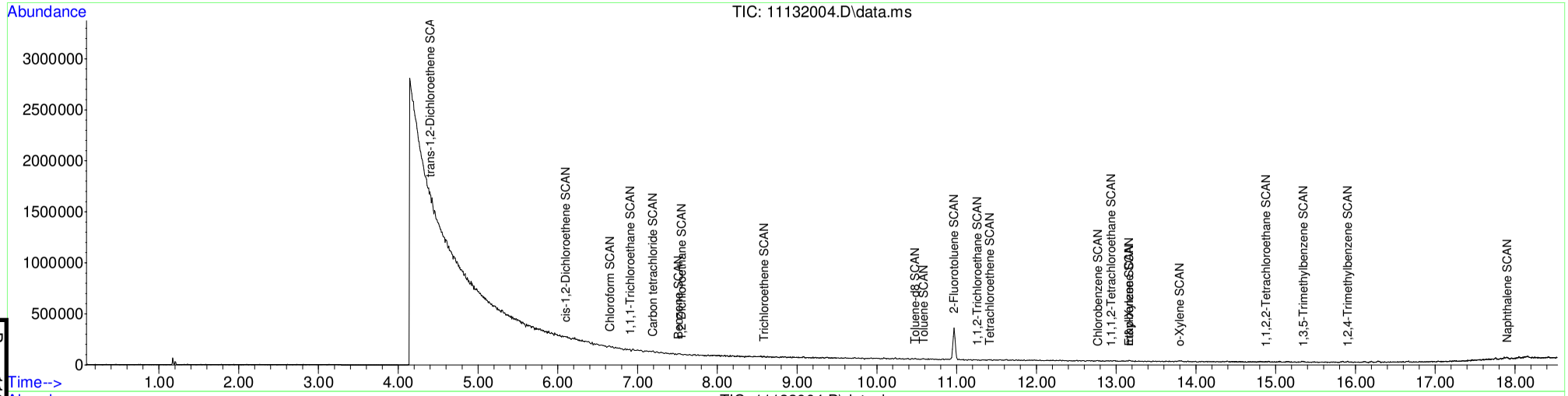


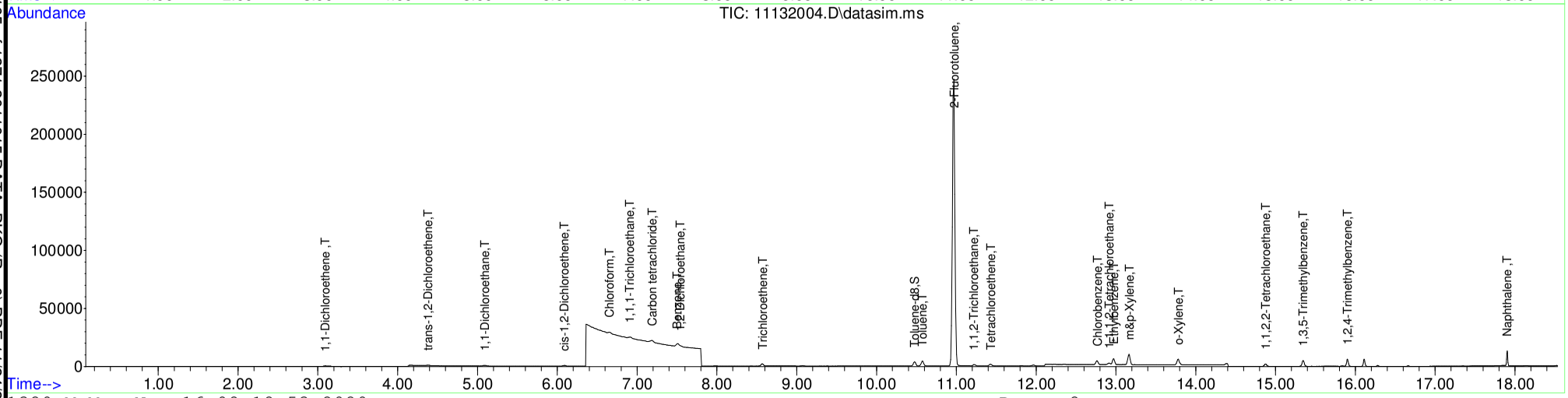
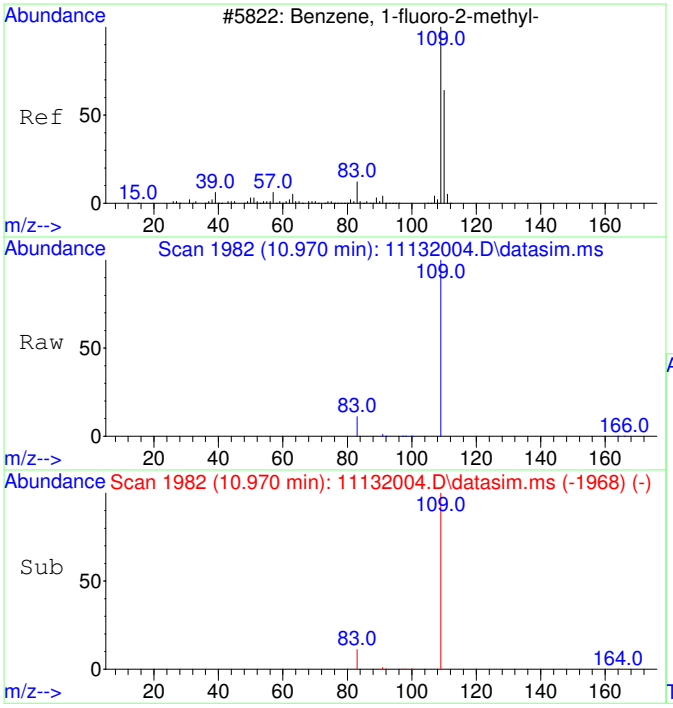


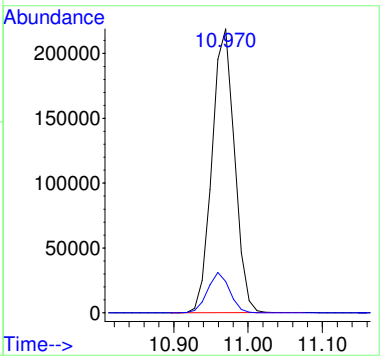
Table of Contents

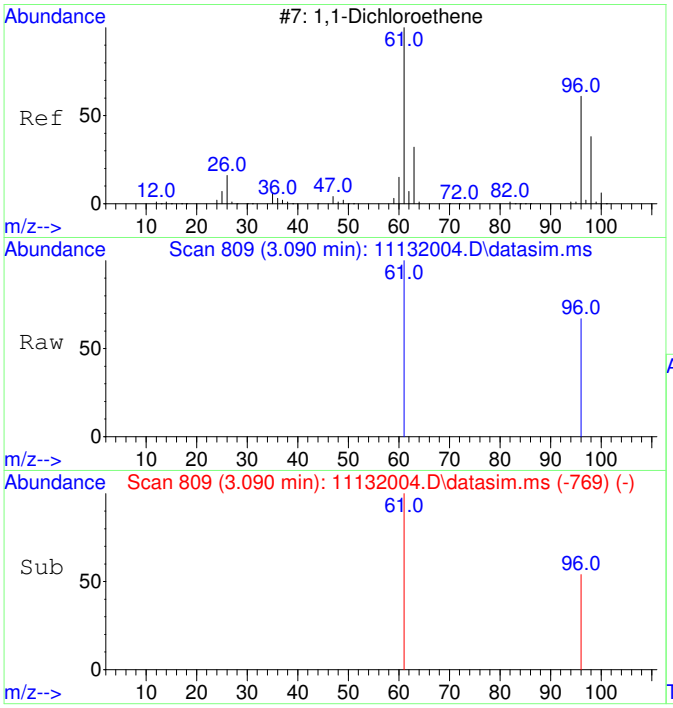


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:109 Resp: 460945

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

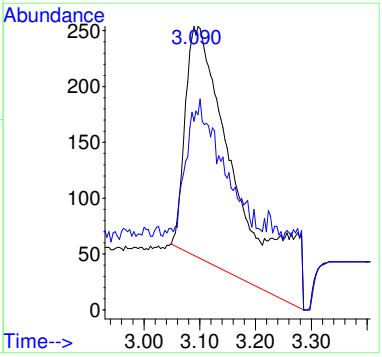




#2
1,1-Dichloroethene
Concen: 70.85 ug/L
RT: 3.090 min Scan# 809
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 1304

Ion	Ratio	Lower	Upper
61	100		
96	60.0	37.2	97.2



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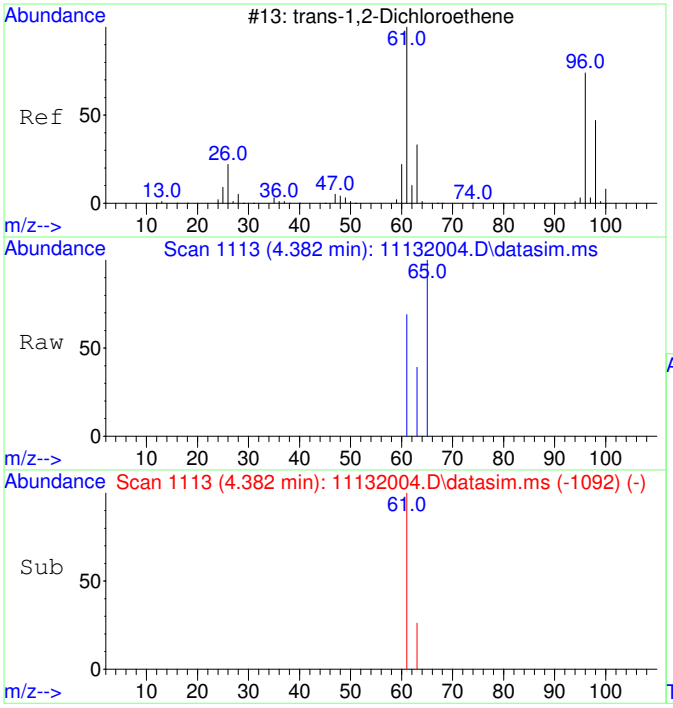
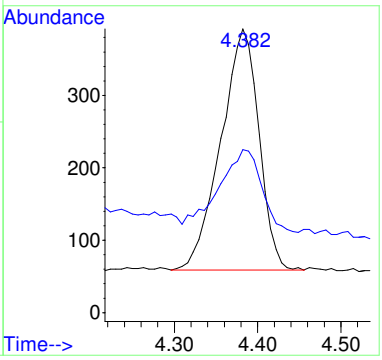
IMPROPER
BASELINE

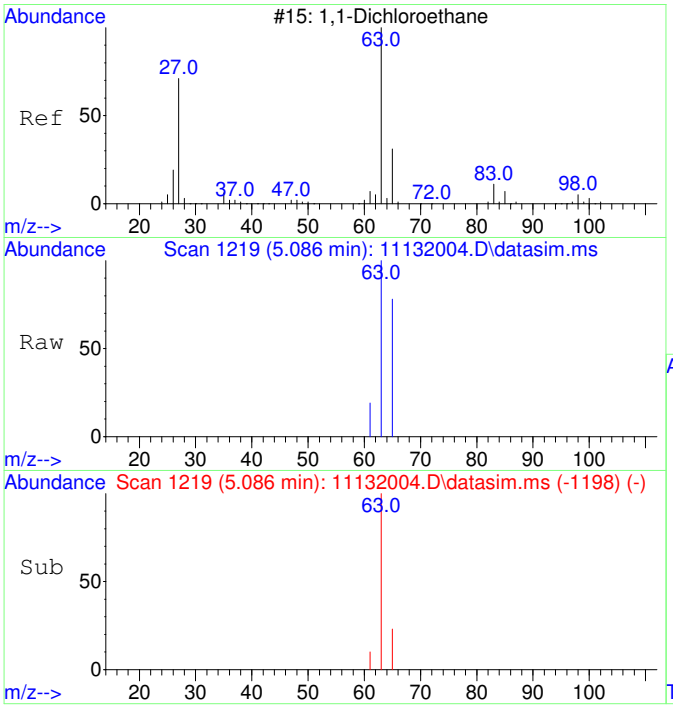


#3
trans-1,2-Dichloroethene
Concen: 49.84 ug/L
RT: 4.382 min Scan# 1113
Delta R.T. -0.013 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 1060

Ion	Ratio	Lower	Upper
61	100		
63	39.9	2.4	62.4

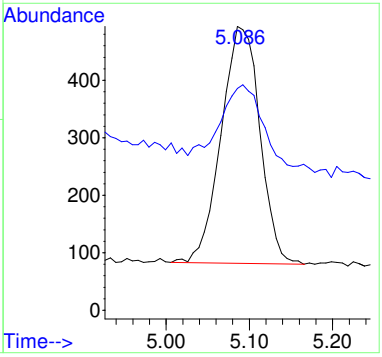


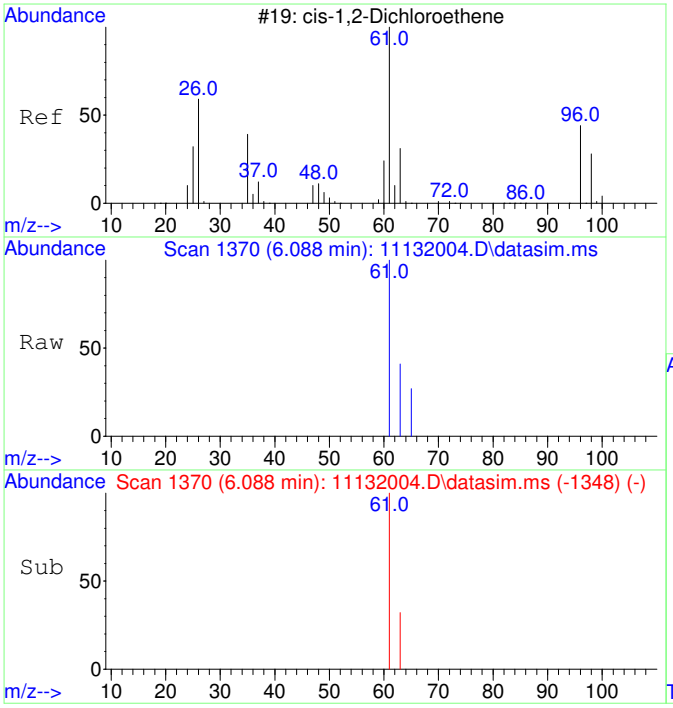


#4
1,1-Dichloroethane
Concen: 50.39 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. -0.013 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 63 Resp: 1334

Ion	Ratio	Lower	Upper
63	100		
65	51.6	1.8	61.8

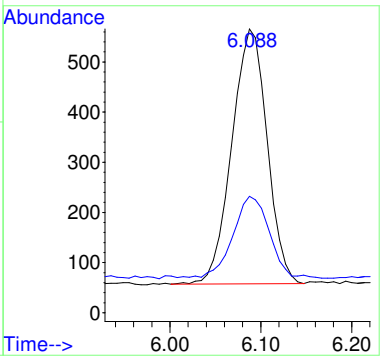


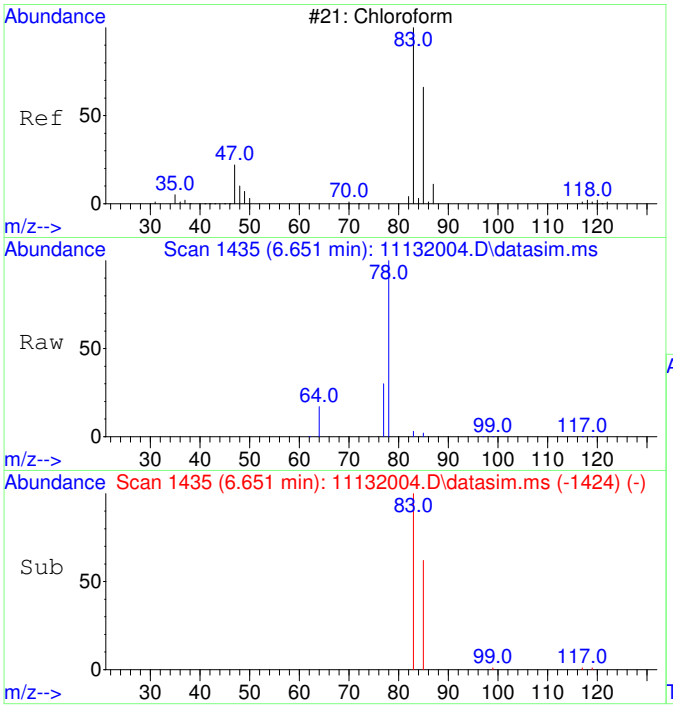


#5
cis-1,2-Dichloroethene
Concen: 49.14 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 1373

Ion	Ratio	Lower	Upper
61	100		
63	32.8	2.5	62.5

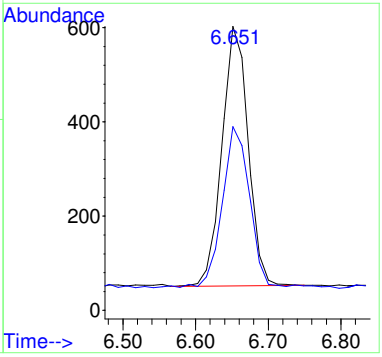


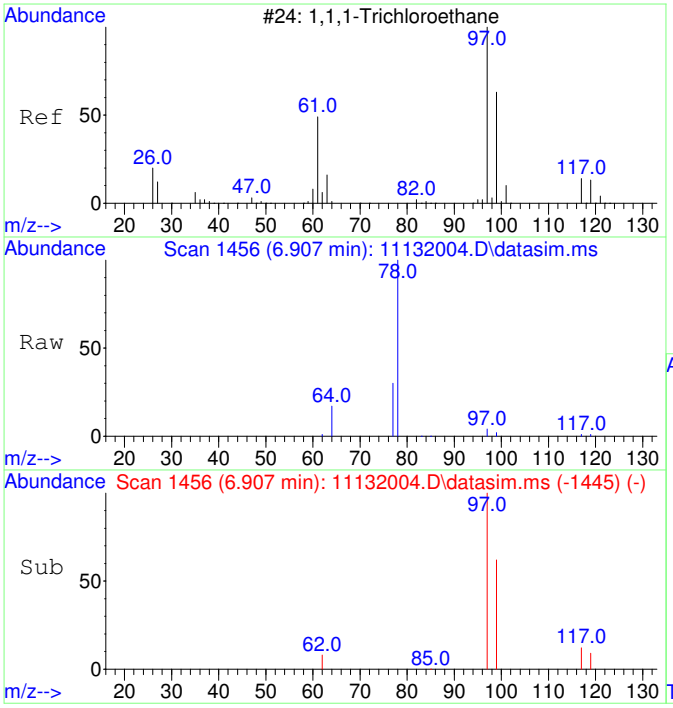


#6
Chloroform
Concen: 48.22 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 1379

Ion	Ratio	Lower	Upper
83	100		
85	63.6	35.1	95.1

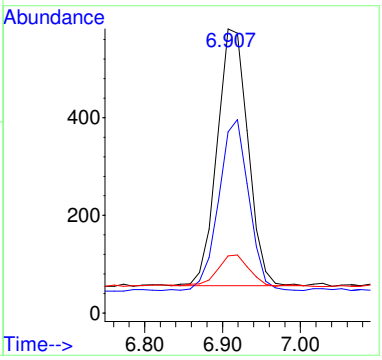


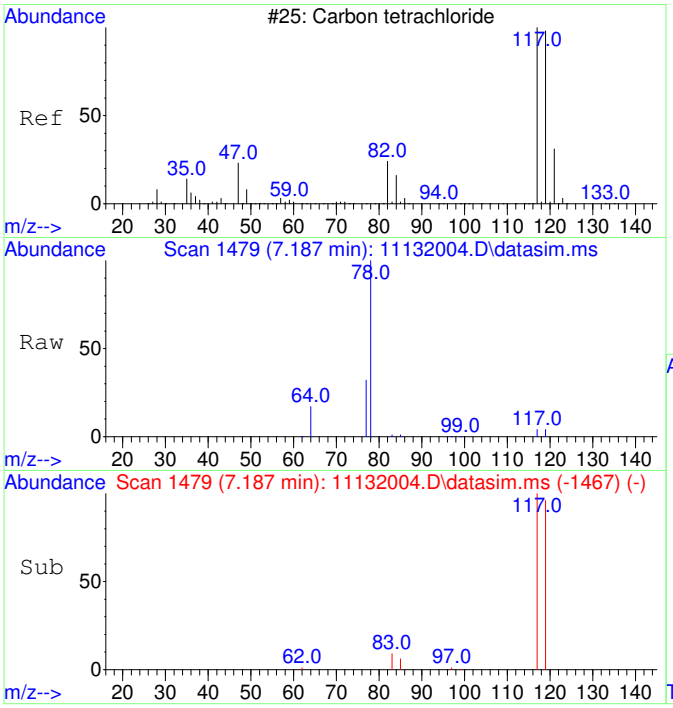


#7
1,1,1-Trichloroethane
Concen: 46.65 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 1449

Ion	Ratio	Lower	Upper
97	100		
99	65.0	34.6	94.6
117	12.8	0.0	43.2

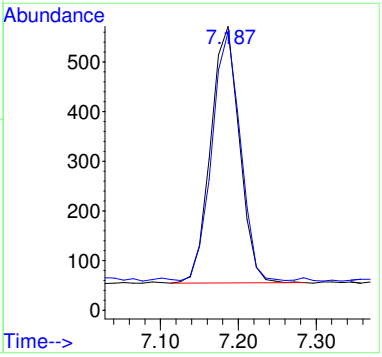


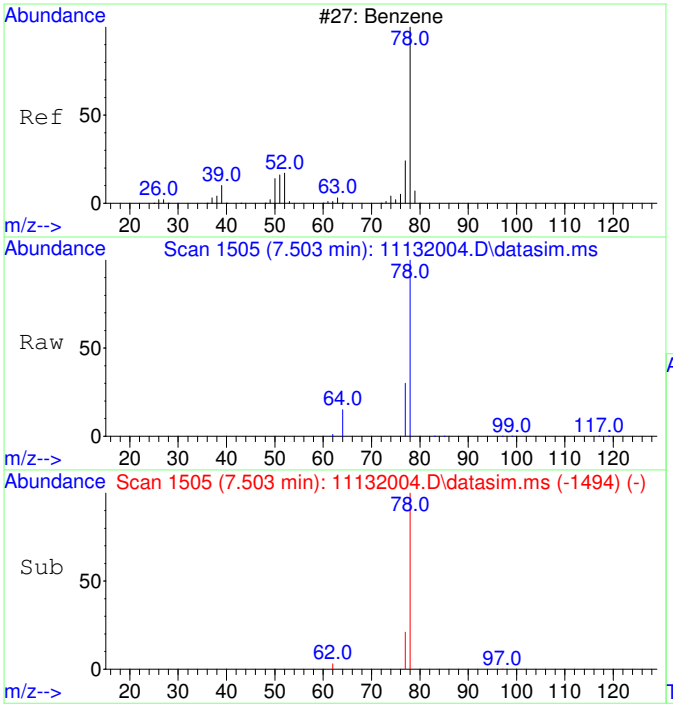


#8
Carbon tetrachloride
Concen: 45.36 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:117 Resp: 1326

Ion	Ratio	Lower	Upper
117	100		
119	95.2	66.4	126.4

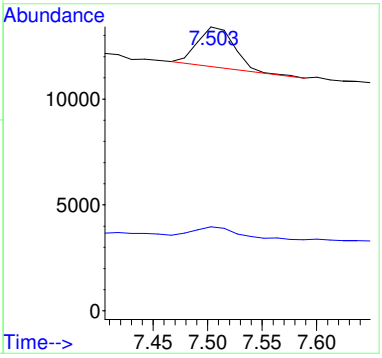


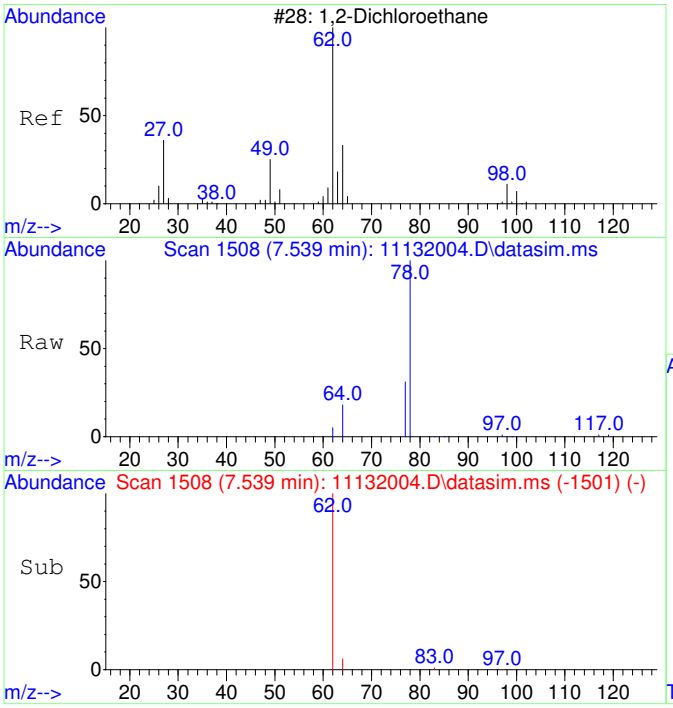


#9
Benzene
Concen: 53.86 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 78 Resp: 4218

Ion	Ratio	Lower	Upper
78	100		
77	47.2	0.0	53.2

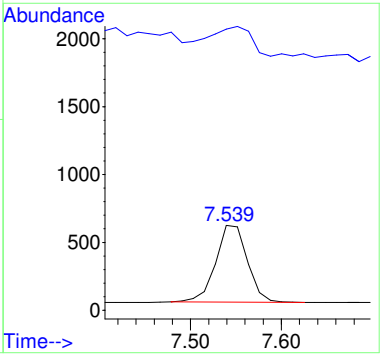


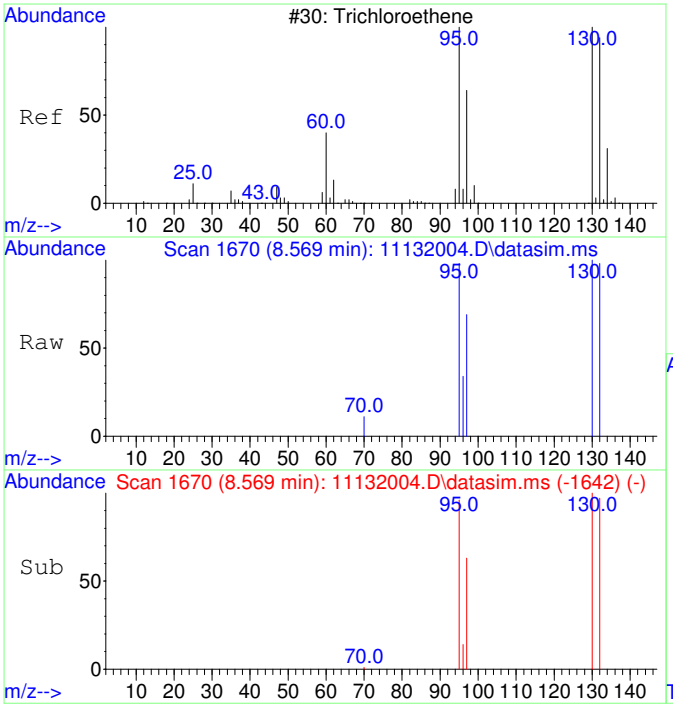


#10
1,2-Dichloroethane
Concen: 48.86 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 62 Resp: 1366

Ion	Ratio	Lower	Upper
62	100		
64	49.6	2.3	62.3

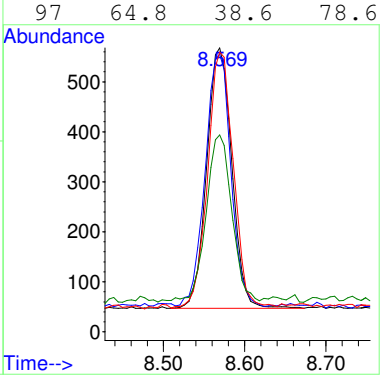


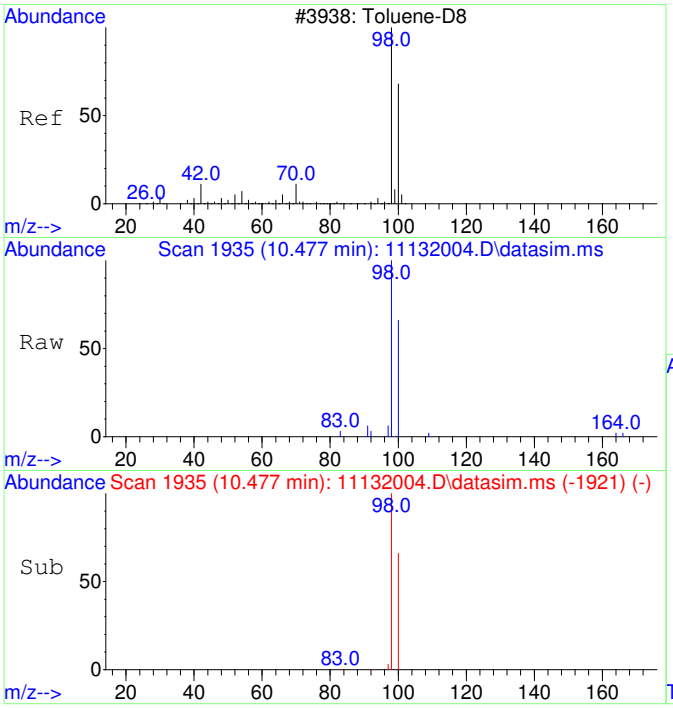


#11
Trichloroethene
Concen: 47.79 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:130 Resp: 1127

Ion	Ratio	Lower	Upper
130	100		
95	97.9	60.7	120.7
132	98.8	76.0	116.0
97	64.8	38.6	78.6

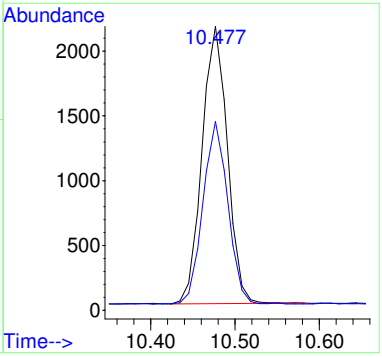


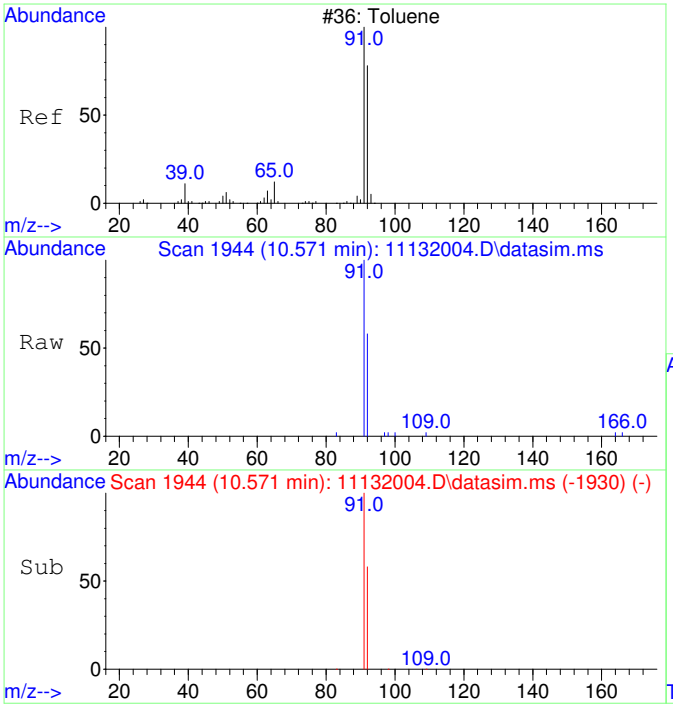


#12
Toluene-d8
Concen: 49.50 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 98 Resp: 4467

Ion	Ratio	Lower	Upper
98	100		
100	64.3	37.1	97.1

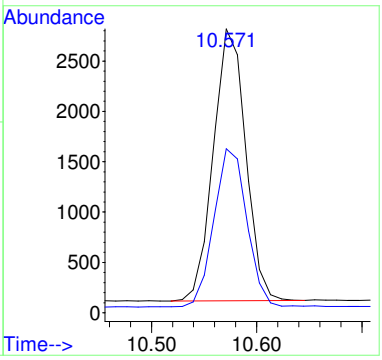


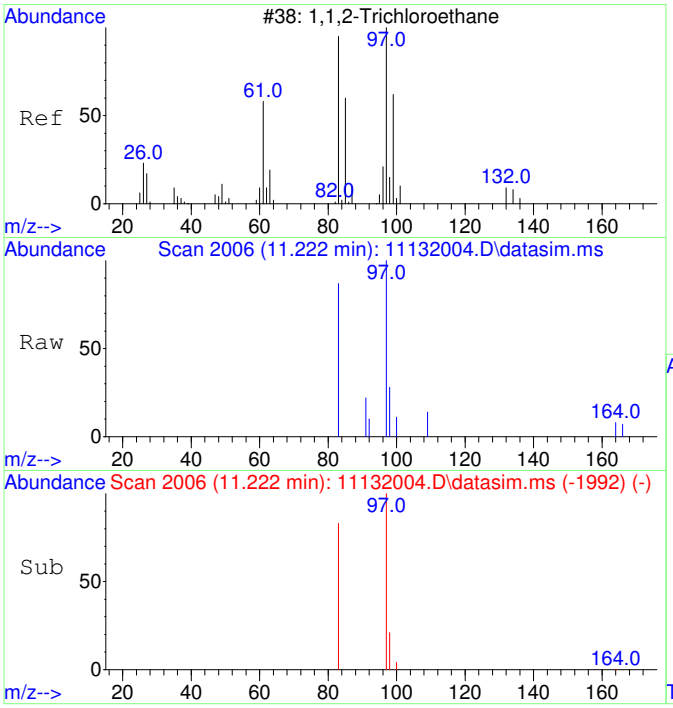


#13
Toluene
Concen: 50.08 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 5761

Ion	Ratio	Lower	Upper
91	100		
92	59.3	29.9	89.9

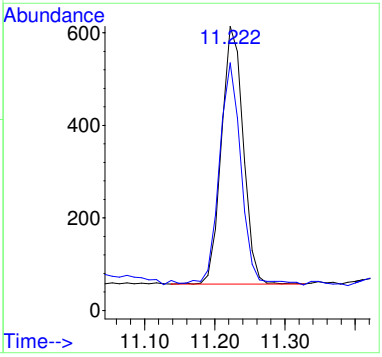


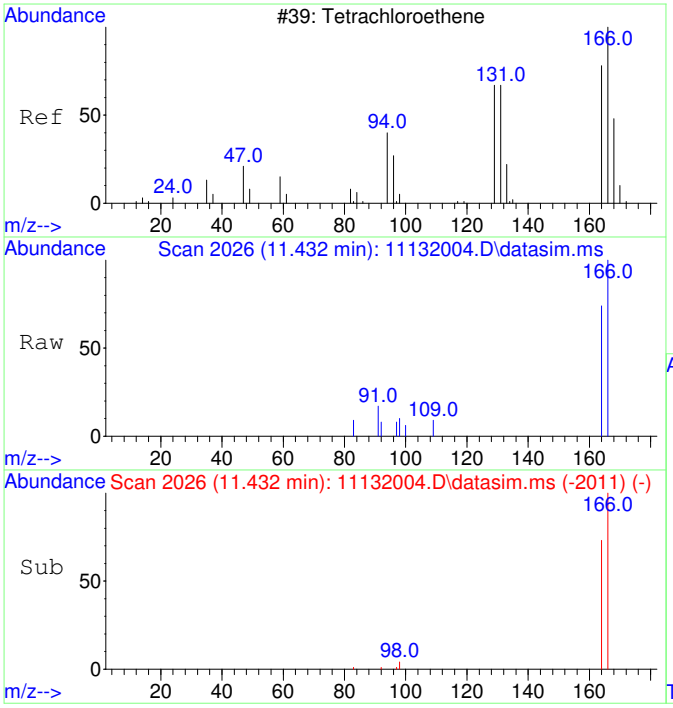


#14
1,1,2-Trichloroethane
Concen: 48.03 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 1204

Ion	Ratio	Lower	Upper
97	100		
83	84.9	51.2	111.2

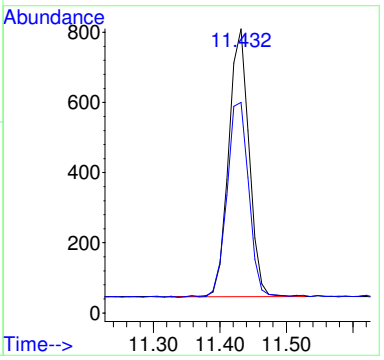


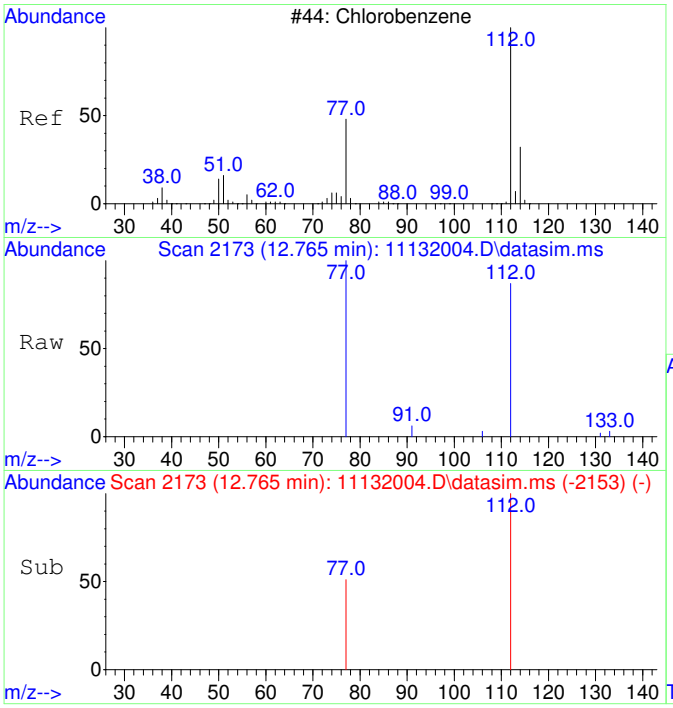


#15
Tetrachloroethene
Concen: 48.60 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:166 Resp: 1618

Ion	Ratio	Lower	Upper
166	100		
164	77.4	47.8	107.8

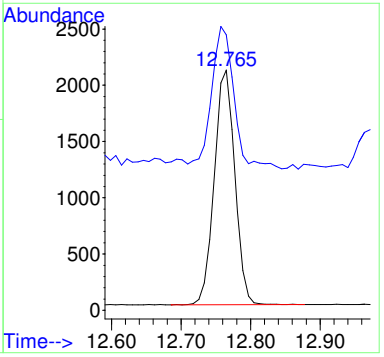


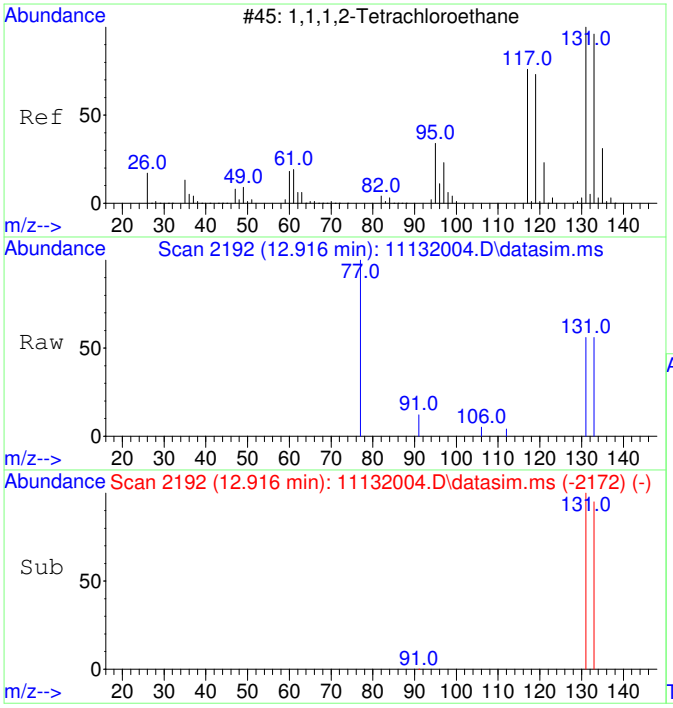


#16
Chlorobenzene
Concen: 52.03 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:112 Resp: 4286

Ion	Ratio	Lower	Upper
112	100		
77	66.3	23.6	83.6

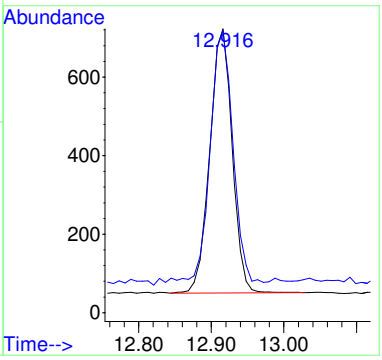


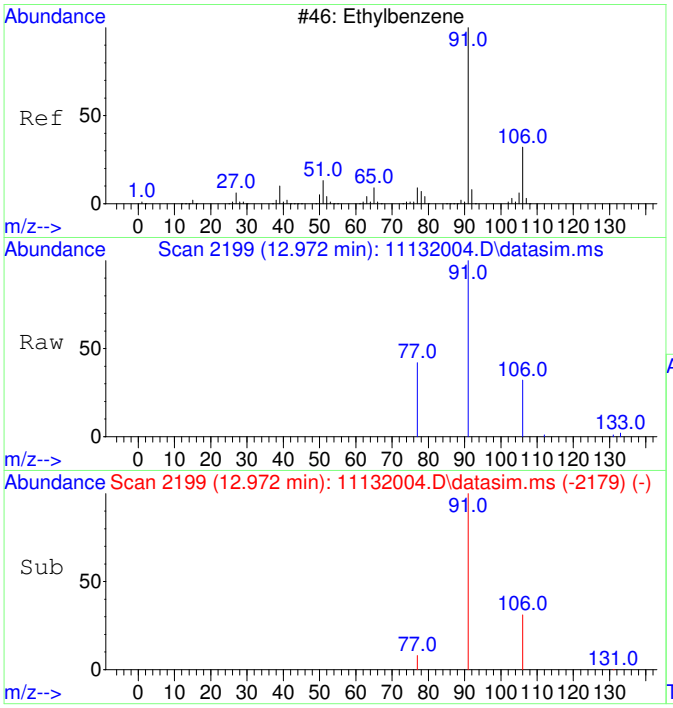


#17
1,1,1,2-Tetrachloroethane
Concen: 48.99 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:131 Resp: 1446

Ion	Ratio	Lower	Upper
131	100		
133	100.8	66.3	126.3

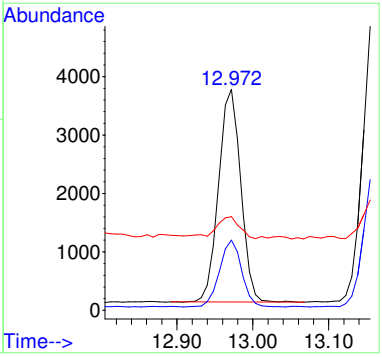


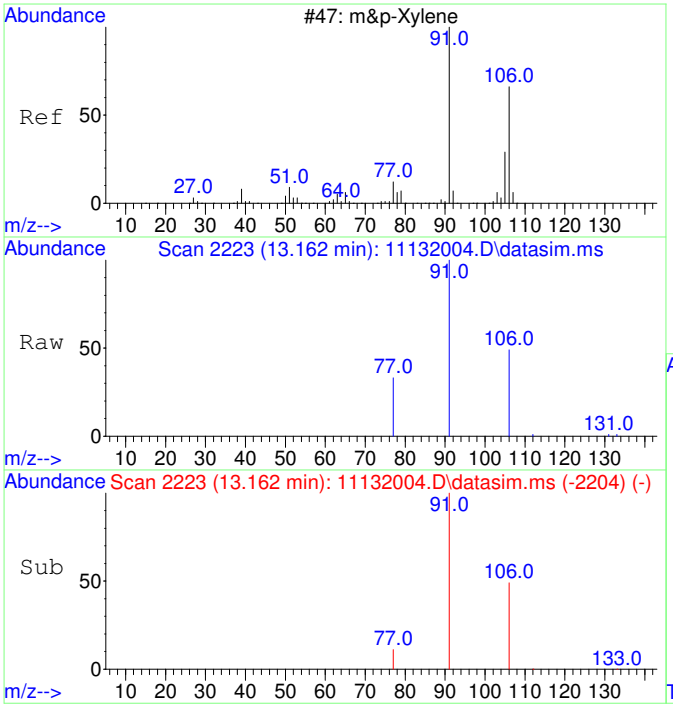


#18
Ethylbenzene
Concen: 52.91 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 7409

Ion	Ratio	Lower	Upper
91	100		
106	31.2	3.0	63.0
77	11.3	0.0	38.2

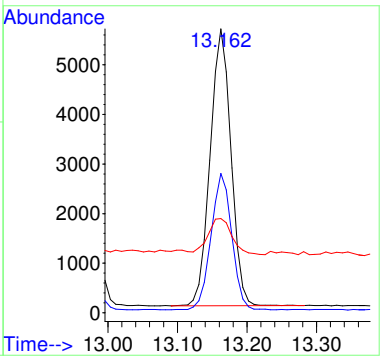


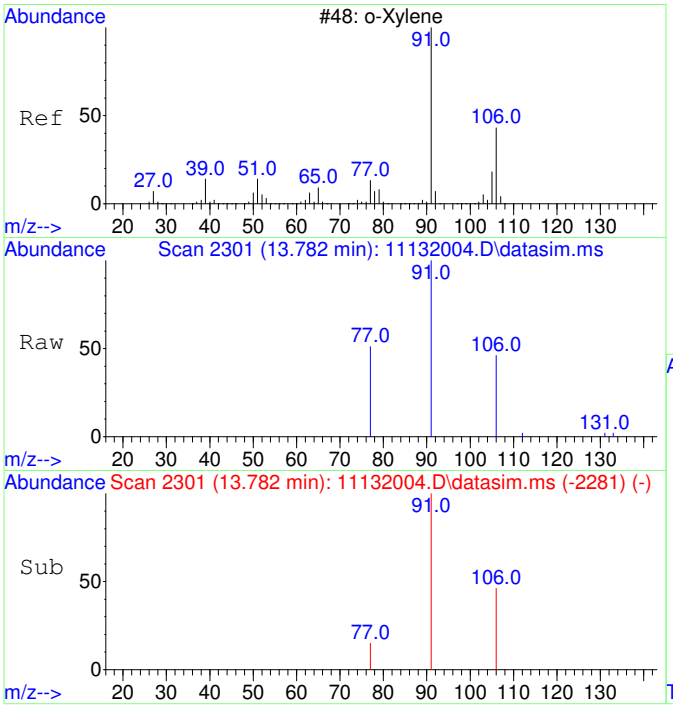


#19
m&p-Xylene
Concen: 105.95 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 11595

Ion	Ratio	Lower	Upper
91	100		
106	49.0	22.2	82.2
77	14.9	0.0	42.4

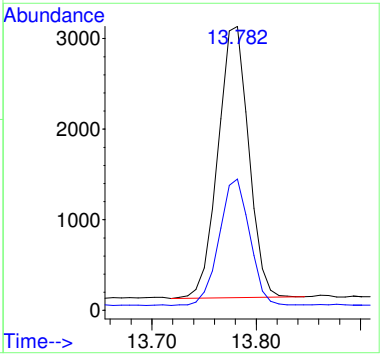


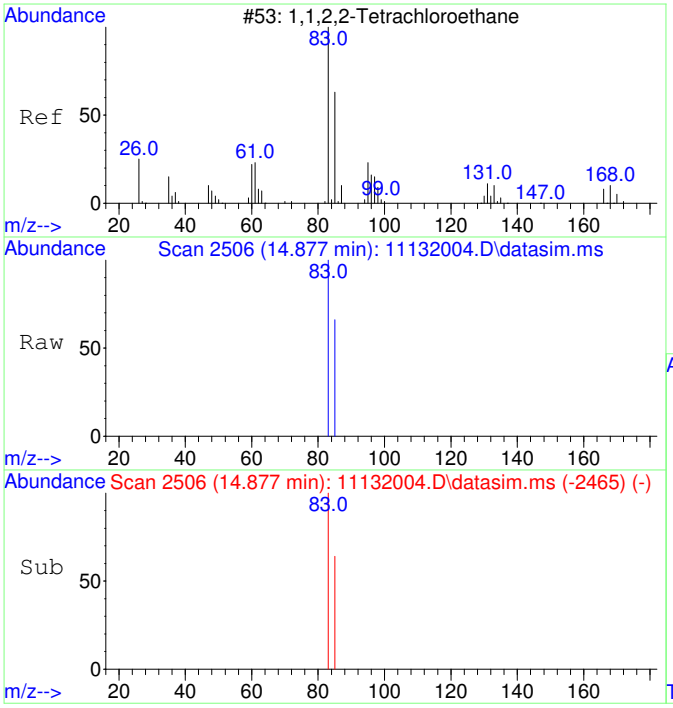


#20
o-Xylene
Concen: 52.24 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 6108

Ion	Ratio	Lower	Upper
91	100		
106	46.2	19.2	79.2

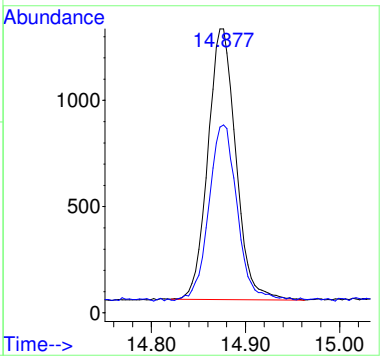


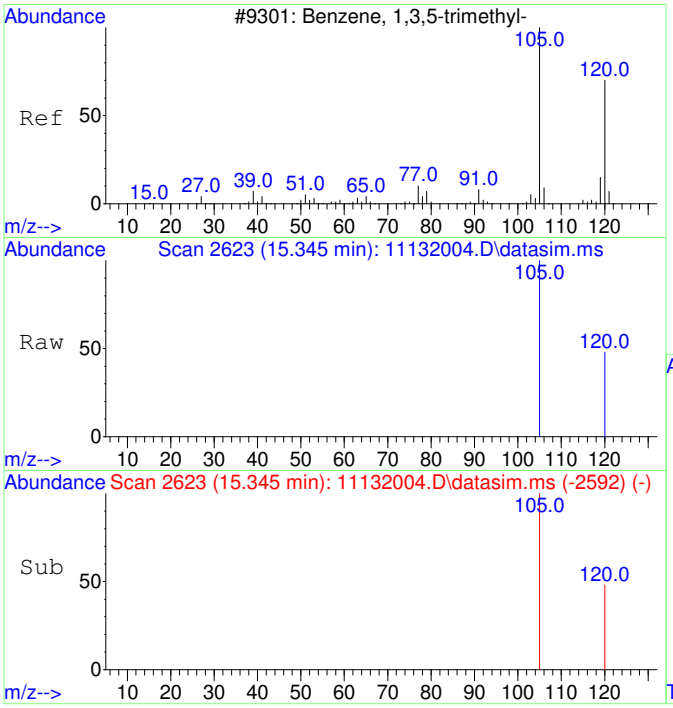


#21
1,1,2,2-Tetrachloroethane
Concen: 50.75 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. 0.004 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 2630

Ion	Ratio	Lower	Upper
83	100		
85	65.2	34.8	94.8

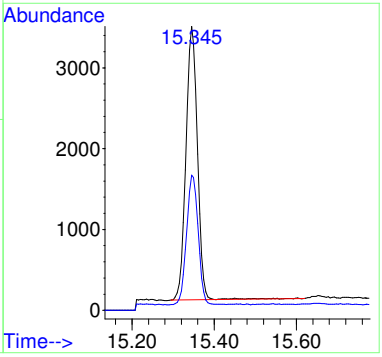


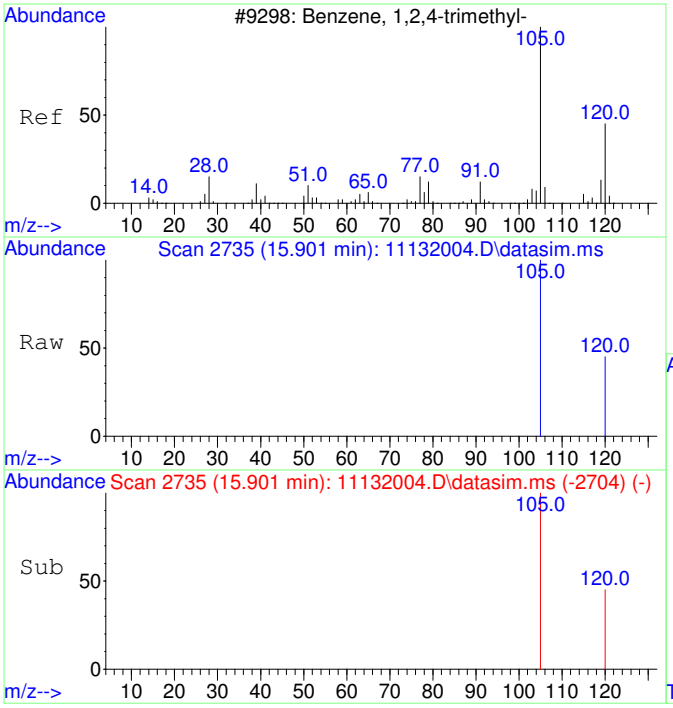


#22
1,3,5-Trimethylbenzene
Concen: 52.70 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 6559

Ion	Ratio	Lower	Upper
105	100		
120	47.6	21.1	81.1

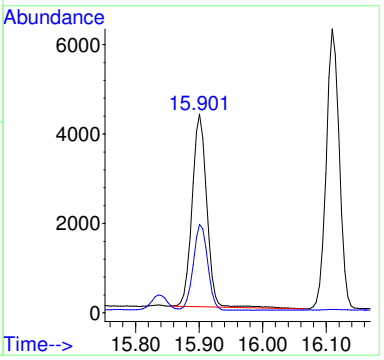


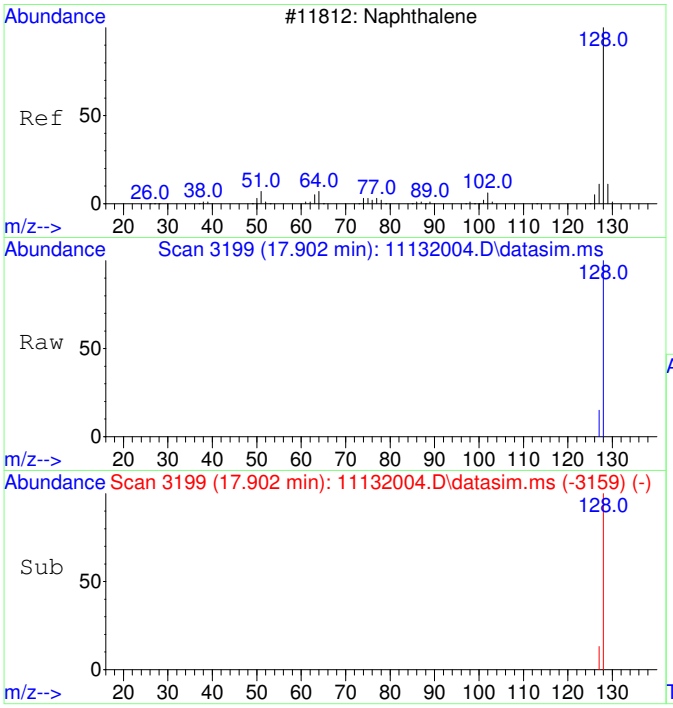


#23
1,2,4-Trimethylbenzene
Concen: 53.54 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 6921

Ion	Ratio	Lower	Upper
105	100		
120	42.3	17.2	77.2

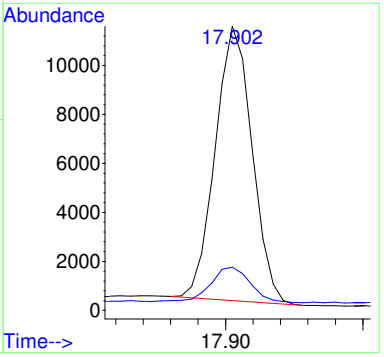


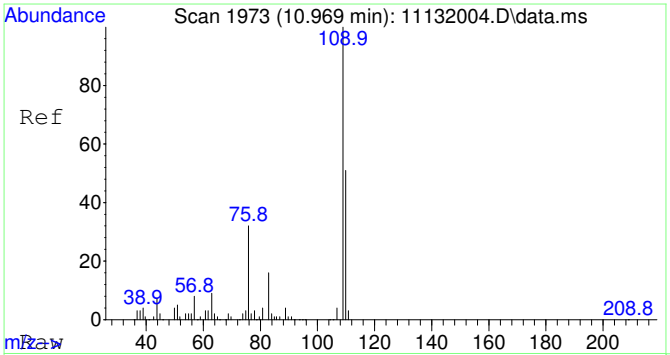


#24
Naphthalene
Concen: 50.74 ug/L
RT: 17.902 min Scan# 3199
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:128 Resp: 10366

Ion	Ratio	Lower	Upper
128	100		
127	13.7	0.0	42.5

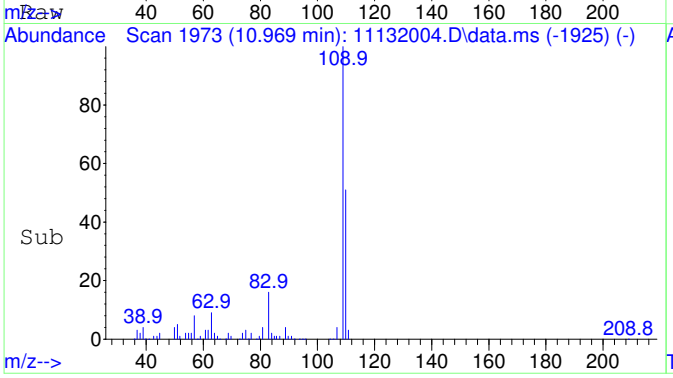


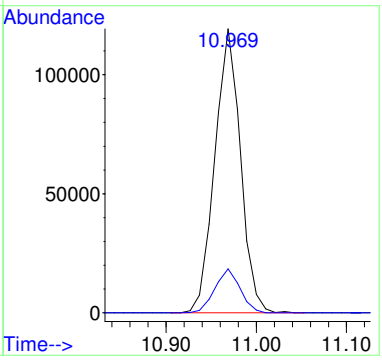


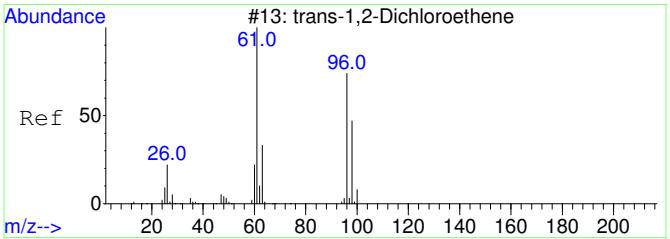
#25
2-Fluorotoluene SCAN
Concen: 5256.53 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

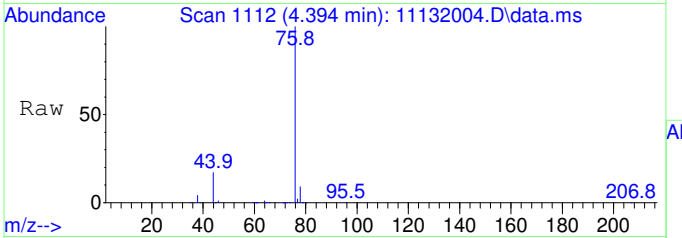
Tgt Ion:109 Resp: 236195

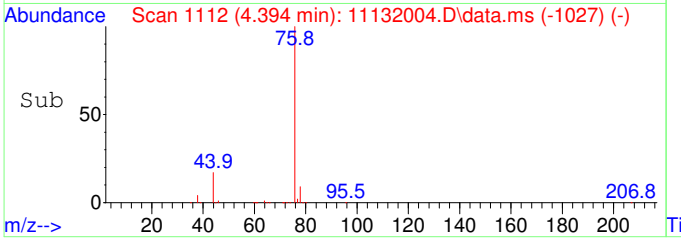
Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	43.8







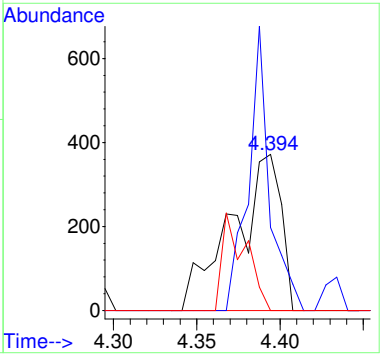


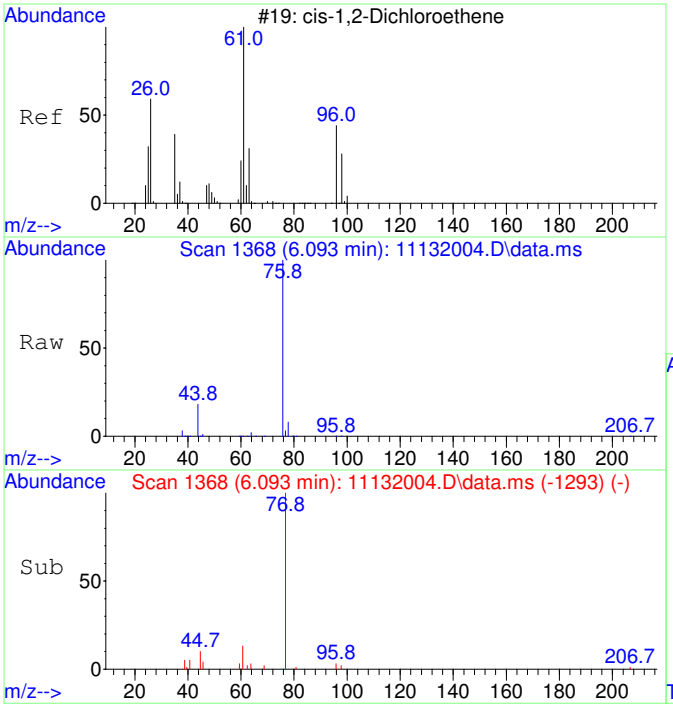


#27
trans-1,2-Dichloroethene SCAN
Concen: 64.02 ug/L
RT: 4.394 min Scan# 1112
Delta R.T. -0.007 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 756

Ion	Ratio	Lower	Upper
61	100		
96	79.4	49.0	109.0
98	0.0	20.5	80.5#

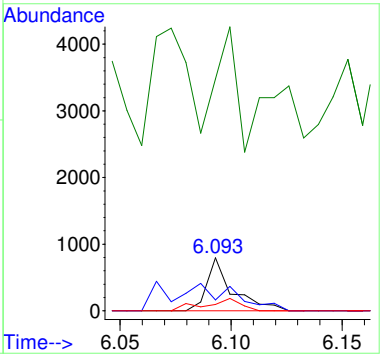


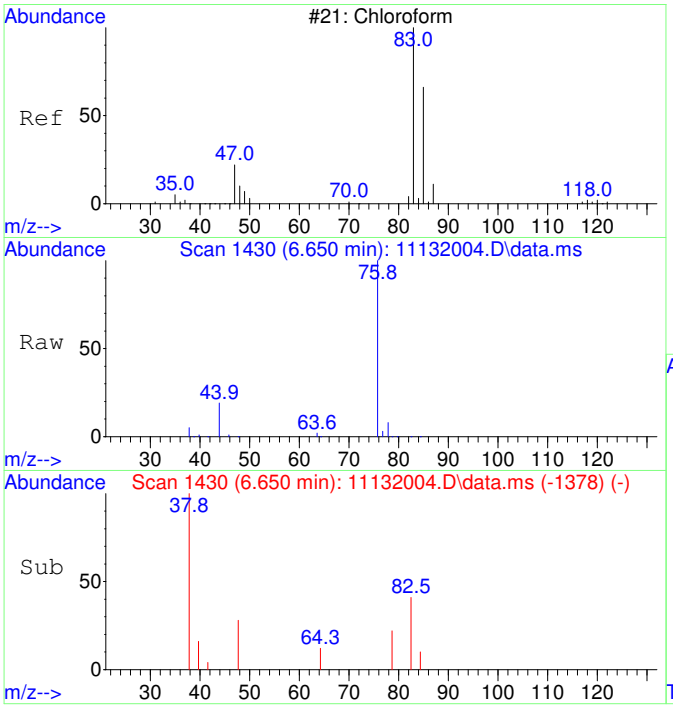


#29
cis-1,2-Dichloroethene SCAN
Concen: 43.57 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 638

Ion	Ratio	Lower	Upper
61	100		
96	9.4	39.9	99.9#
98	32.9	13.5	73.5
64	214.6	4.5	64.5#

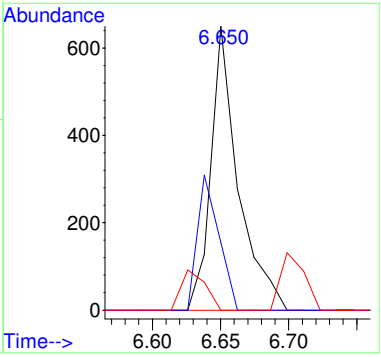


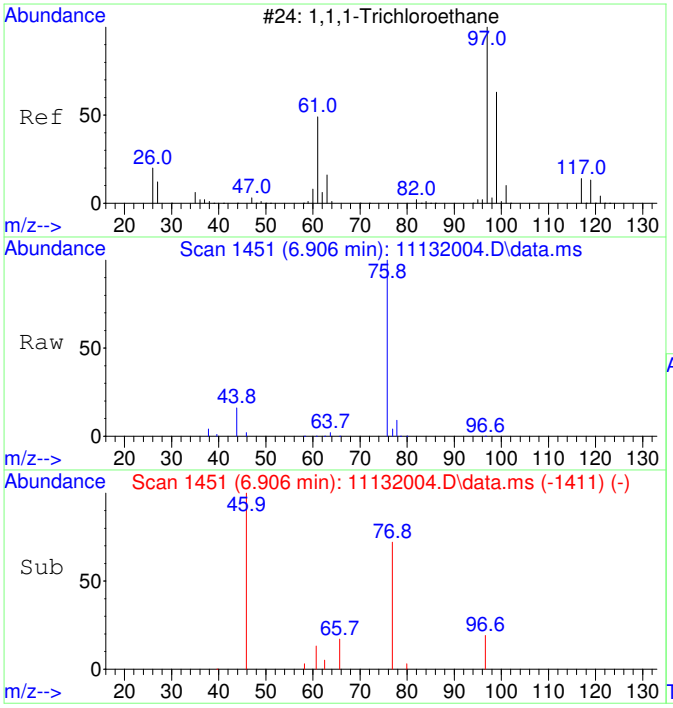


#30
Chloroform SCAN
Concen: 57.18 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 908

Ion	Ratio	Lower	Upper
83	100		
85	37.3	34.6	94.6
47	0.0	0.0	53.4

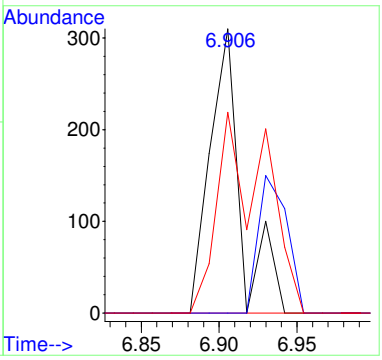


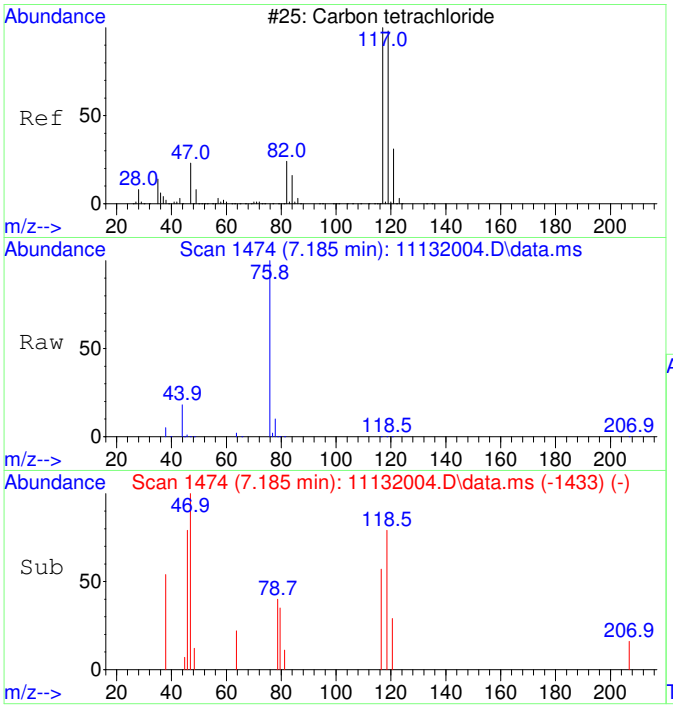


#31
1,1,1-Trichloroethane SCAN
Concen: 29.44 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 426

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	109.2	18.0	78.0#

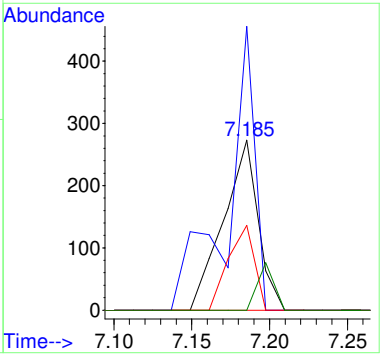


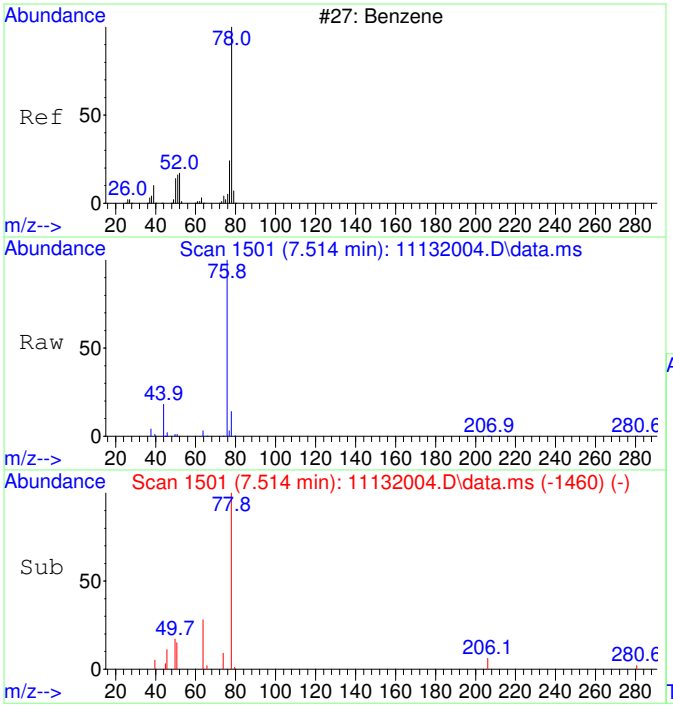


#32
Carbon tetrachloride SCAN
Concen: 28.15 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:117 Resp: 425

Ion	Ratio	Lower	Upper
117	100		
119	132.5	75.5	135.5
121	37.6	0.0	58.8
82	12.9	0.0	59.2

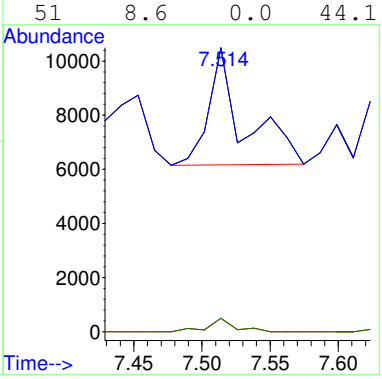


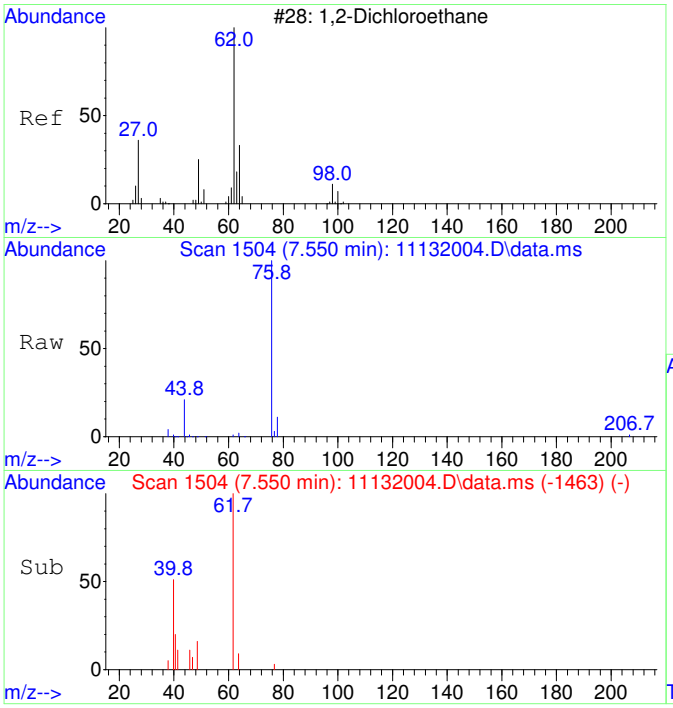


#33
Benzene SCAN
Concen: 192.94 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 78 Resp: 7688

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.6	0.0	47.9
51	8.6	0.0	44.1

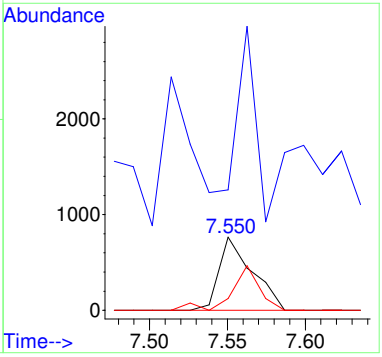


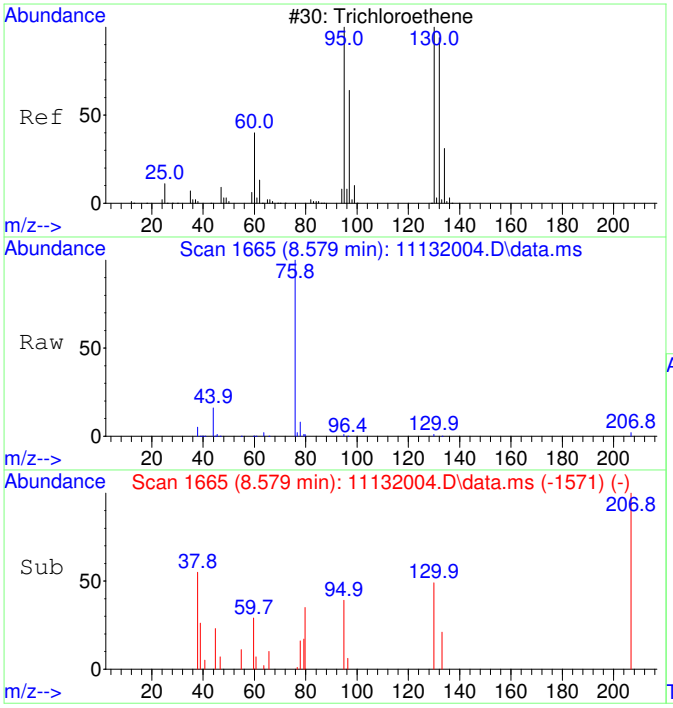


#34
1,2-Dichloroethane SCAN
Concen: 77.14 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 62 Resp: 1135

Ion	Ratio	Lower	Upper
62	100		
64	123.5	5.2	65.2#
49	50.9	3.9	63.9

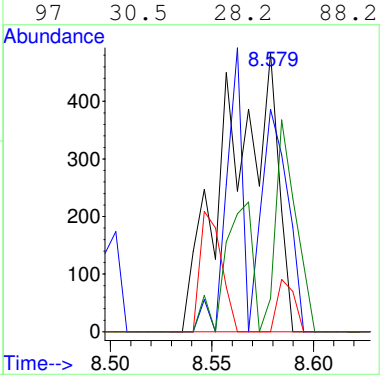


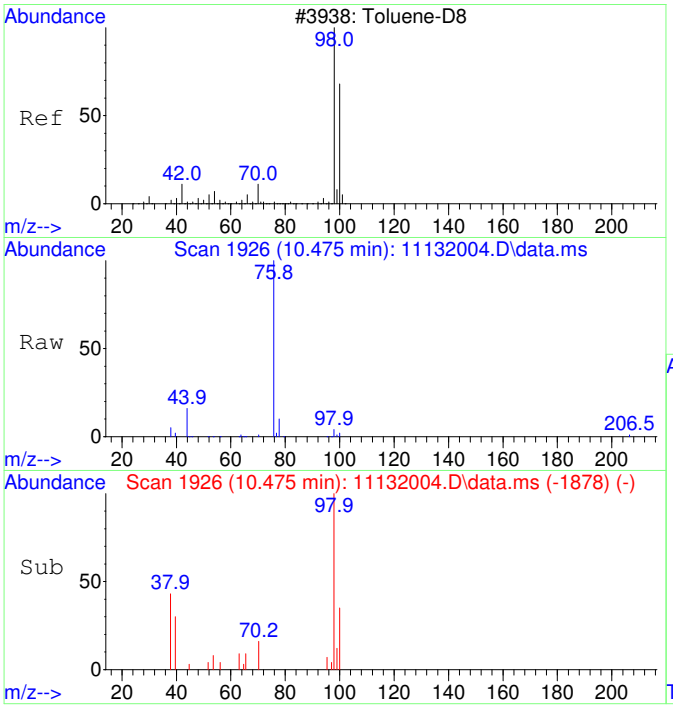


#35
Trichloroethene SCAN
Concen: 75.71 ug/L
RT: 8.579 min Scan# 1665
Delta R.T. 0.011 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:130 Resp: 829

Ion	Ratio	Lower	Upper
130	100		
95	42.1	60.5	120.5#
132	6.4	59.6	119.6#
97	30.5	28.2	88.2

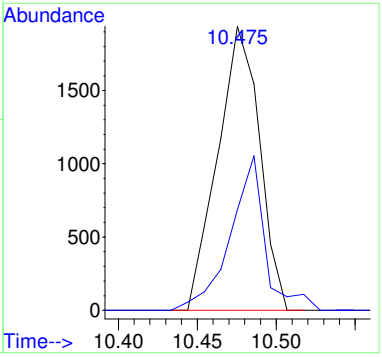


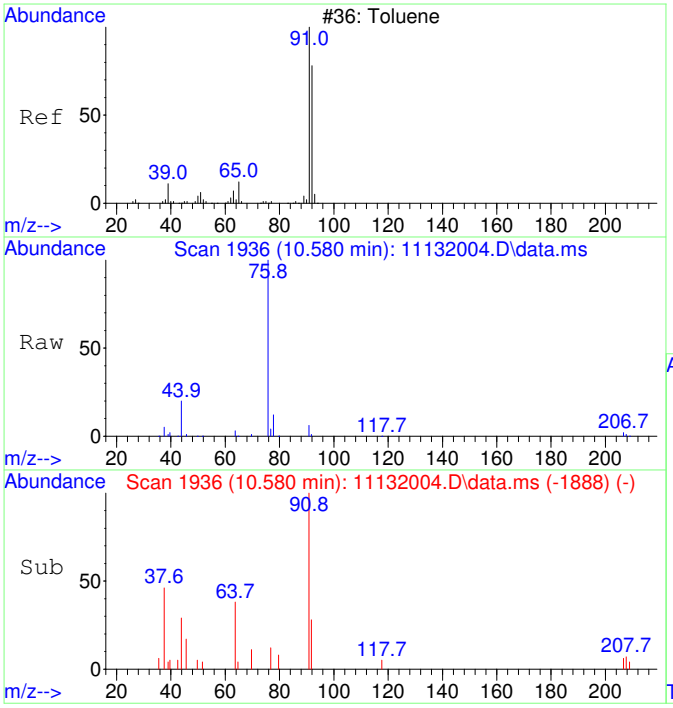


#36
Toluene-d8 SCAN
Concen: 81.45 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 98 Resp: 3579

Ion	Ratio	Lower	Upper
98	100		
100	45.0	40.0	100.0

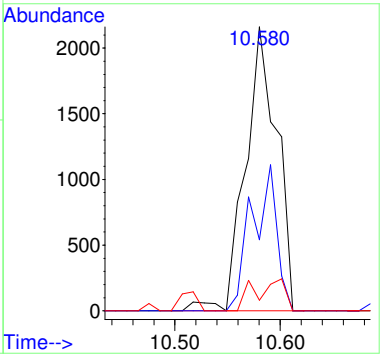


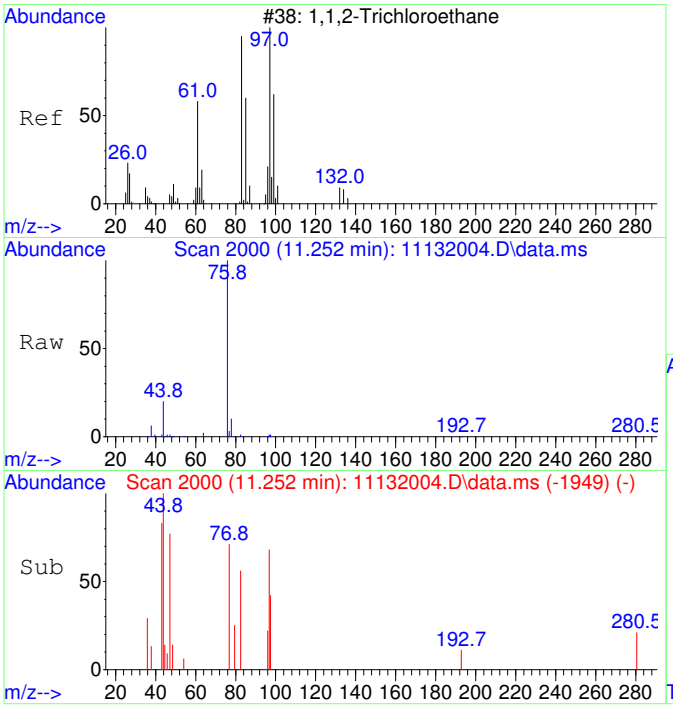


#37
Toluene SCAN
Concen: 79.39 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 4468

Ion	Ratio	Lower	Upper
91	100		
92	40.9	28.3	88.3
65	0.0	0.0	41.0

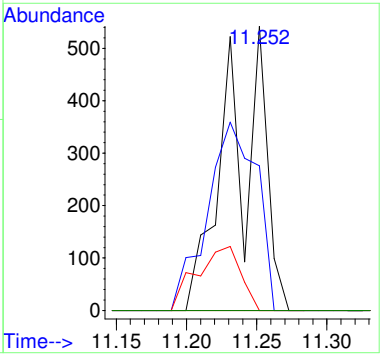


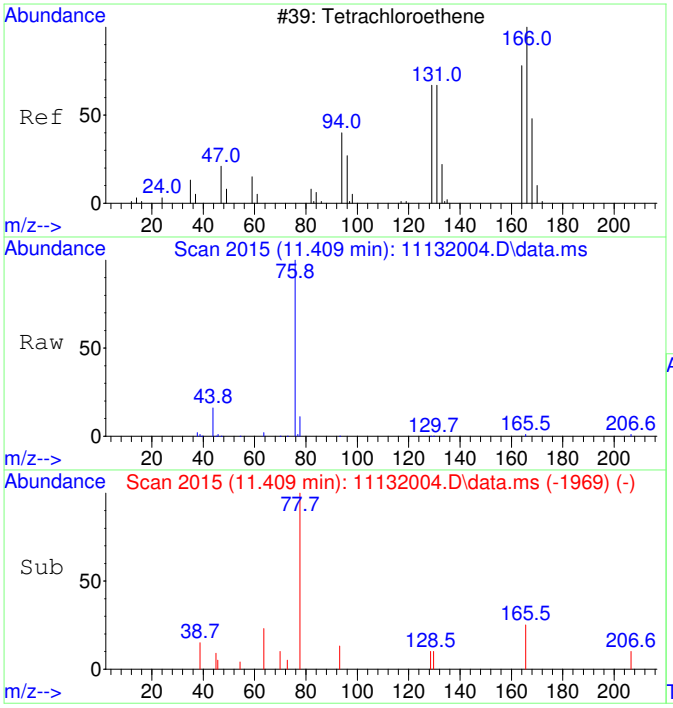


#38
1,1,2-Trichloroethane SCAN
Concen: 77.90 ug/L
RT: 11.252 min Scan# 2000
Delta R.T. 0.031 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 984

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#

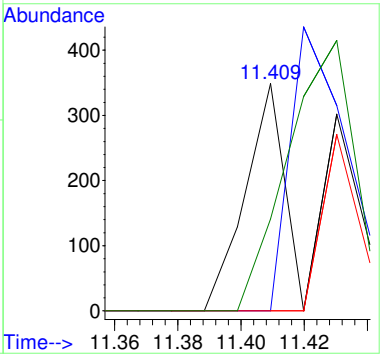


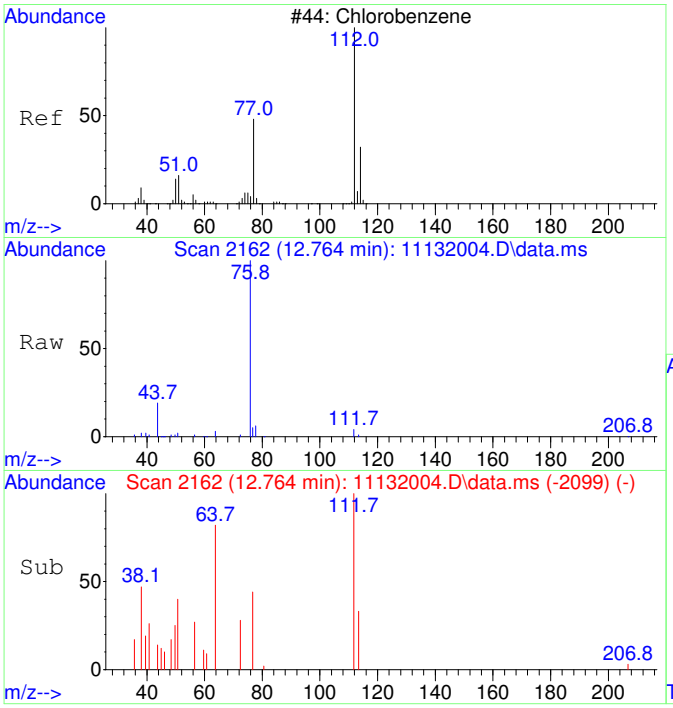


#39
Tetrachloroethene SCAN
Concen: 22.26 ug/L
RT: 11.409 min Scan# 2015
Delta R.T. -0.021 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:166 Resp: 301

Ion	Ratio	Lower	Upper
166	100		
164	199.0	50.9	110.9#
131	0.0	38.7	98.7#
129	0.0	41.8	101.8#

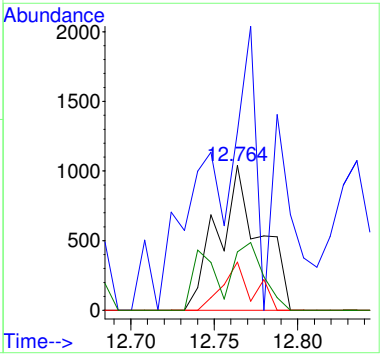


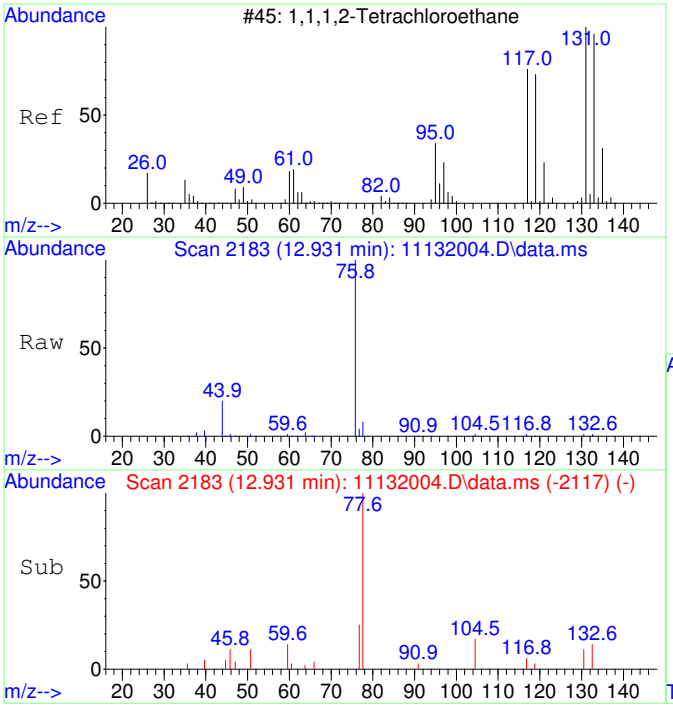


#40
Chlorobenzene SCAN
Concen: 48.19 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:112 Resp: 1853

Ion	Ratio	Lower	Upper
112	100		
77	201.7	28.2	88.2#
114	23.3	2.3	62.3
51	26.7	0.0	50.1

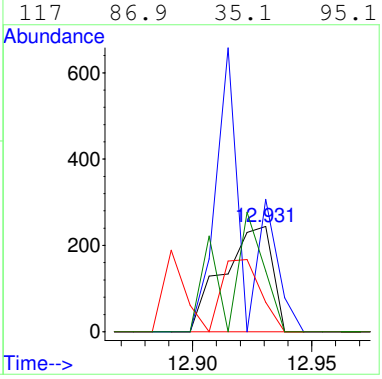


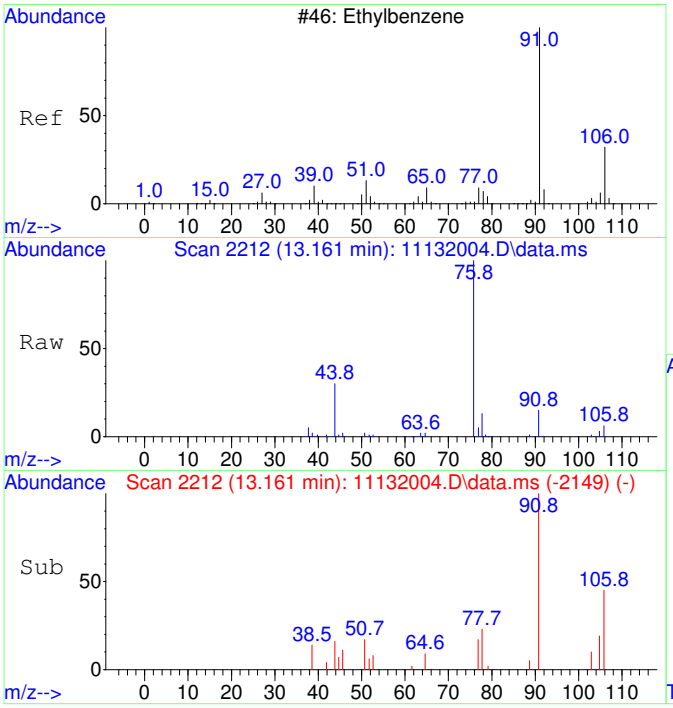


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 24.66 ug/L
RT: 12.931 min Scan# 2183
Delta R.T. 0.024 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:131 Resp: 351

Ion	Ratio	Lower	Upper
131	100		
133	164.7	66.9	126.9#
119	54.1	40.4	100.4
117	86.9	35.1	95.1

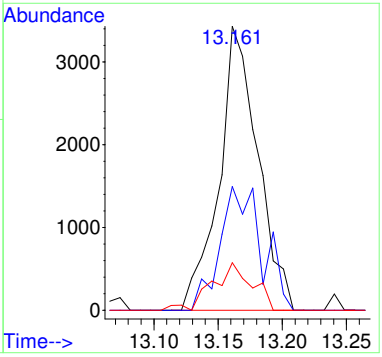


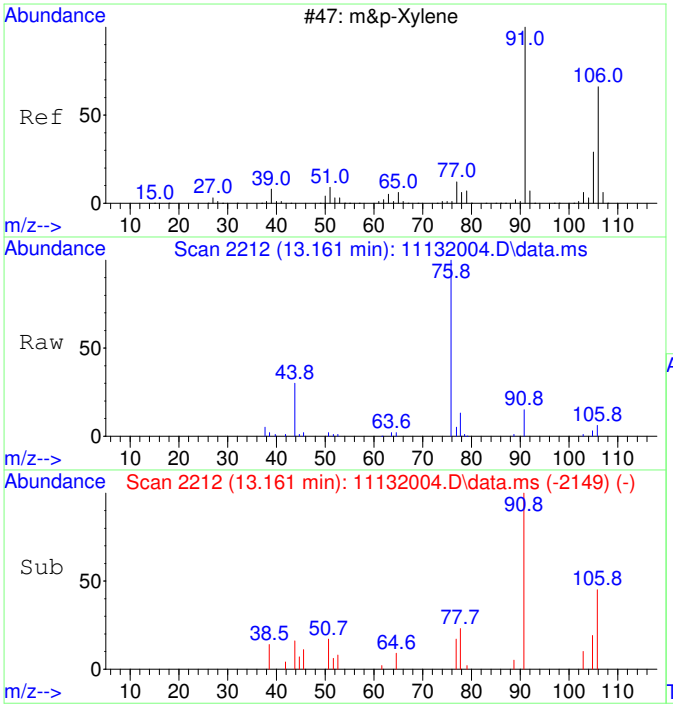


#42
Ethylbenzene SCAN
Concen: 70.13 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 7190

Ion	Ratio	Lower	Upper
91	100		
106	47.4	23.1	83.1
51	17.2	0.0	40.1

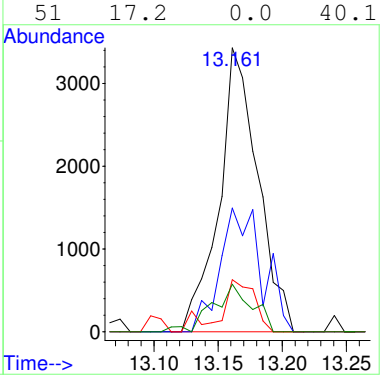


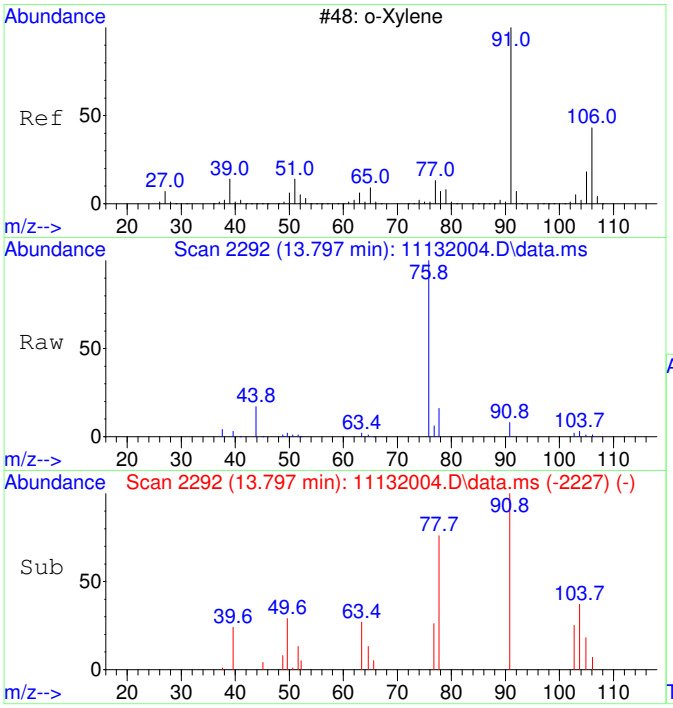


#43
m&p-Xylene SCAN
Concen: 70.13 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 7190

Ion	Ratio	Lower	Upper
91	100		
106	47.4	23.1	83.1
105	11.6	0.0	54.7
51	17.2	0.0	40.1

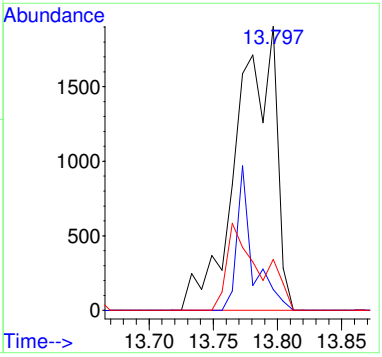


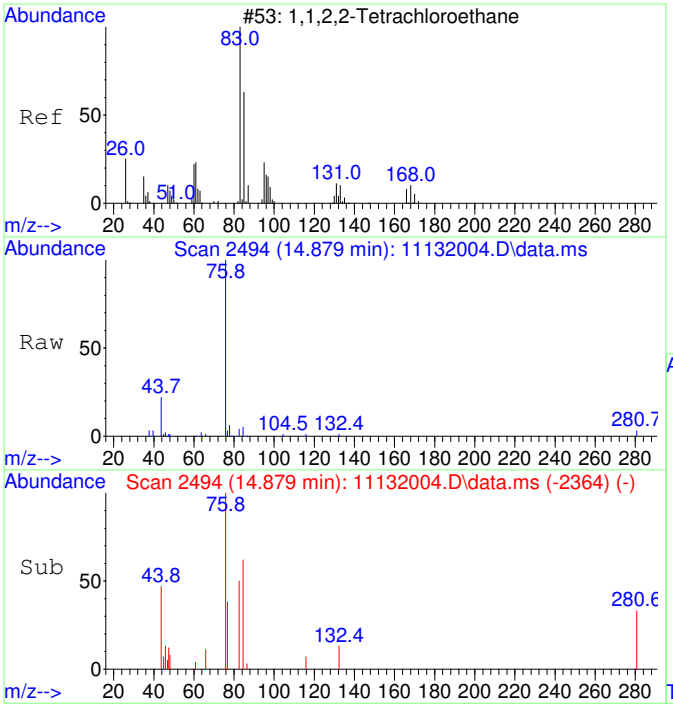


#44
o-Xylene SCAN
Concen: 74.84 ug/L
RT: 13.797 min Scan# 2292
Delta R.T. 0.016 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 4107

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

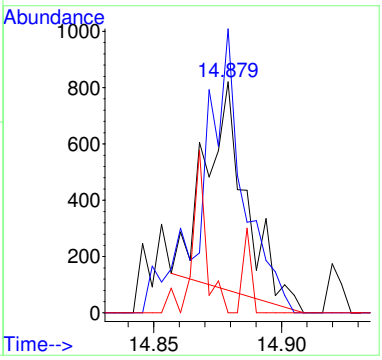


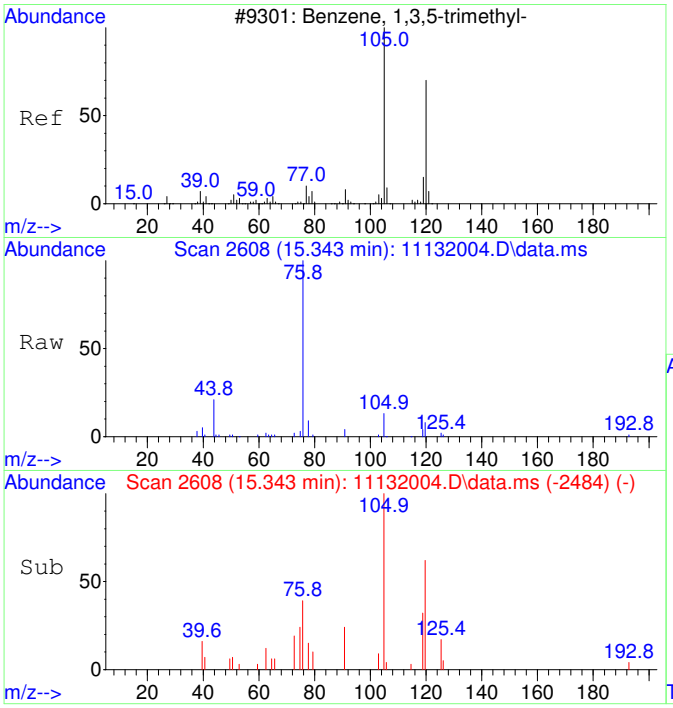


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 29.56 ug/L
RT: 14.879 min Scan# 2494
Delta R.T. 0.007 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 791

Ion	Ratio	Lower	Upper
83	100		
85	142.2	35.9	95.9#
95	8.5	0.0	47.4

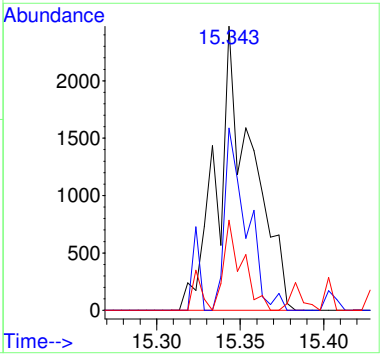


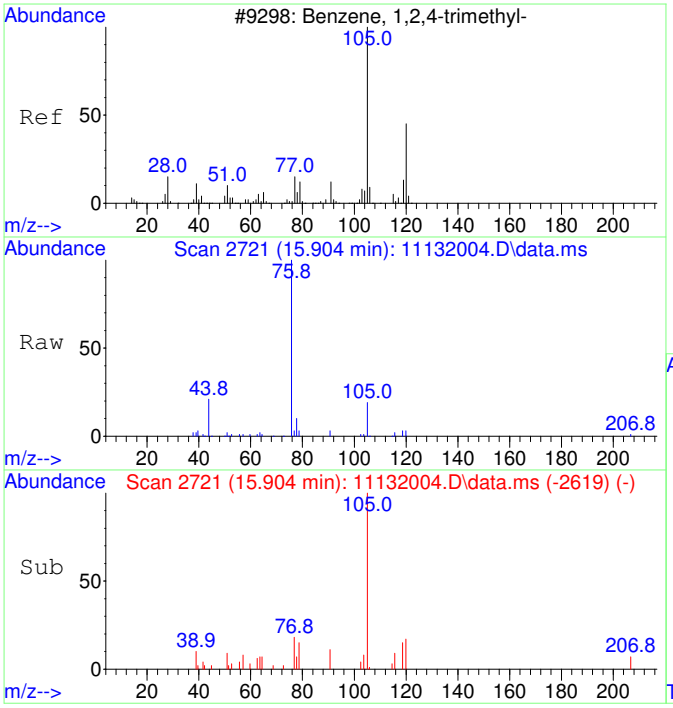


#46
1,3,5-Trimethylbenzene SCAN
Concen: 62.62 ug/L
RT: 15.343 min Scan# 2608
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 3622

Ion	Ratio	Lower	Upper
105	100		
120	39.8	18.3	78.3
119	17.0	0.0	43.1

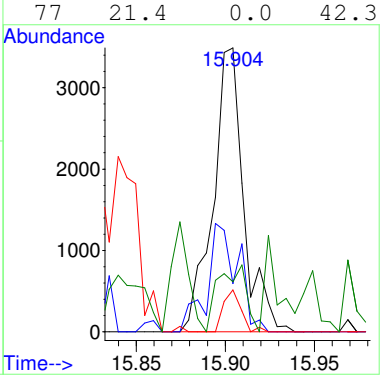


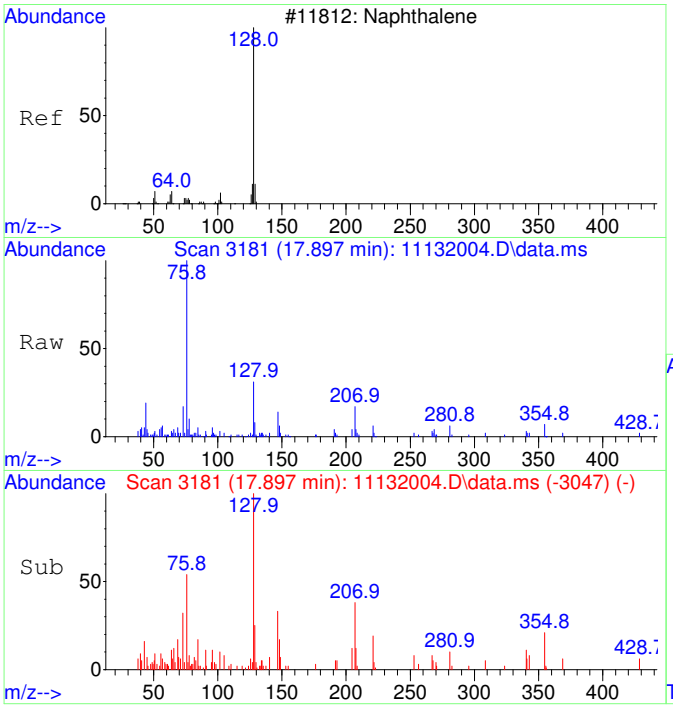


#47
1,2,4-Trimethylbenzene SCAN
Concen: 70.68 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 4183

Ion	Ratio	Lower	Upper
105	100		
120	38.7	16.9	76.9
119	8.5	0.0	41.9
77	21.4	0.0	42.3

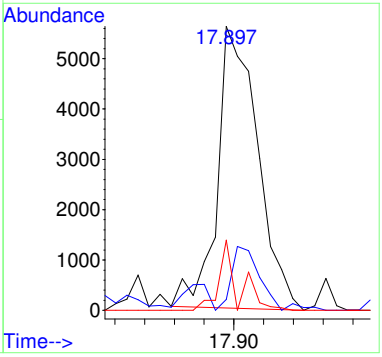




#48
Naphthalene SCAN
Concen: 58.86 ug/L
RT: 17.897 min Scan# 3181
Delta R.T. -0.004 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:128 Resp: 5271

Ion	Ratio	Lower	Upper
128	100		
127	16.4	0.0	44.0
129	12.0	0.0	40.8



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132004.D
Acq On : 13 Nov 2020 11:56
InstName : AG5975C
Operator : TD
Sample : S20K055-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

M.I. Performed By:
TD at 8:54 am, Nov 16, 2020

M.I. Approved By:
ZR at 6:19 pm, Nov 23, 2020

Quant Time: Nov 16 08:18:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration

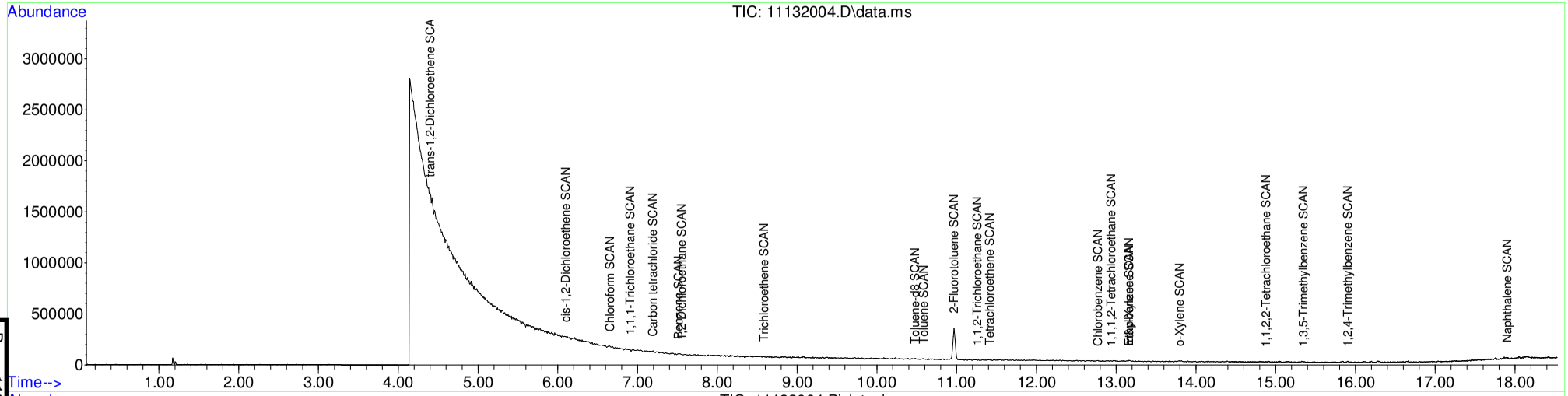
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.970	109	460945	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	10.477	98	4467	49.50	ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 0.99%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	3.090	61	897m	48.73	ug/L	
3] trans-1,2-Dichloroethene	4.382	61	1060	49.84	ug/L	87
4] 1,1-Dichloroethane	5.086	63	1334	50.39	ug/L	64
5] cis-1,2-Dichloroethene	6.088	61	1373	49.14	ug/L	99
6] Chloroform	6.651	83	1379	48.22	ug/L	98
7] 1,1,1-Trichloroethane	6.907	97	1449	46.65	ug/L	99
8] Carbon tetrachloride	7.187	117	1326	45.36	ug/L	99
9] Benzene	7.503	78	4218	53.86	ug/L	51
10] 1,2-Dichloroethane	7.539	62	1366	48.86	ug/L	69
11] Trichloroethene	8.569	130	1127	47.79	ug/L	94
13] Toluene	10.571	91	5761	50.08	ug/L	99
14] 1,1,2-Trichloroethane	11.222	97	1204	48.03	ug/L	96
15] Tetrachloroethene	11.432	166	1618	48.60	ug/L	100
16] Chlorobenzene	12.765	112	4286	52.03	ug/L	82
17] 1,1,1,2-Tetrachloroethane	12.916	131	1446	48.99	ug/L	95
18] Ethylbenzene	12.972	91	7409	52.91	ug/L	96
19] m&p-Xylene	13.162	91	11595	105.95	ug/L	95
20] o-Xylene	13.782	91	6108	52.24	ug/L	96
21] 1,1,2,2-Tetrachloroethane	14.877	83	2630	50.75	ug/L	99
22] 1,3,5-Trimethylbenzene	15.345	105	6559	52.70	ug/L	95
23] 1,2,4-Trimethylbenzene	15.901	105	6921	53.54	ug/L	93
24] Naphthalene	17.902	128	10366	50.74	ug/L	97
25) 2-Fluorotoluene SCAN	10.969	109	236195	5256.53	ug/L	97
27) trans-1,2-Dichloroethe...	4.394	61	756	64.02	ug/L #	71
29) cis-1,2-Dichloroethene...	6.093	61	638	43.57	ug/L #	1
30) Chloroform SCAN	6.650	83	908	57.18	ug/L #	62
31) 1,1,1-Trichloroethane ...	6.906	97	426	29.44	ug/L #	11
32) Carbon tetrachloride SCAN	7.185	117	425	28.15	ug/L	75
33) Benzene SCAN	7.514	78	7688	192.94	ug/L	96
34) 1,2-Dichloroethane SCAN	7.550	62	1135	77.14	ug/L #	8
35) Trichloroethene SCAN	8.579	130	829	75.71	ug/L #	38
36) Toluene-d8 SCAN	10.475	98	3579	81.45	ug/L	70
37) Toluene SCAN	10.580	91	4468	79.39	ug/L #	76
38) 1,1,2-Trichloroethane ...	11.252	97	984	77.90	ug/L #	13
39) Tetrachloroethene SCAN	11.409	166	301	22.26	ug/L #	1
40) Chlorobenzene SCAN	12.764	112	1853	48.19	ug/L #	1
41) 1,1,1,2-Tetrachloroeth...	12.931	131	351	24.66	ug/L #	58
42) Ethylbenzene SCAN	13.161	91	7190	70.13	ug/L	90
43) m&p-Xylene SCAN	13.161	91	7190	70.13	ug/L	86
44) o-Xylene SCAN	13.797	91	4107	74.84	ug/L #	36
45) 1,1,2,2-Tetrachloroeth...	14.879	83	791	29.56	ug/L #	20
46) 1,3,5-Trimethylbenzene...	15.343	105	3622	62.62	ug/L	88
47) 1,2,4-Trimethylbenzene...	15.904	105	4183	70.68	ug/L	86
48) Naphthalene SCAN	17.897	128	5271	58.86	ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2020\111320\
Data File : 11132004.D
Acq On : 13 Nov 2020 11:56
InstName : AG5975C
Operator : TD
Sample : S20K055-CRL1
Misc : 2030073 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 16 08:18:49 2020
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2020\111320.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Fri Aug 21 08:33:54 2020
Response via : Initial Calibration



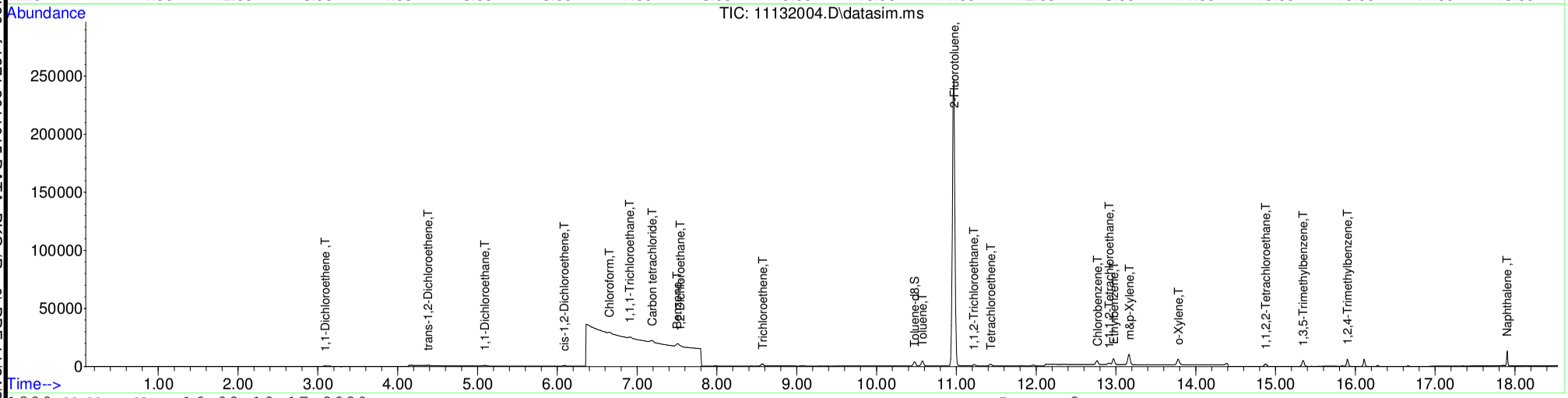
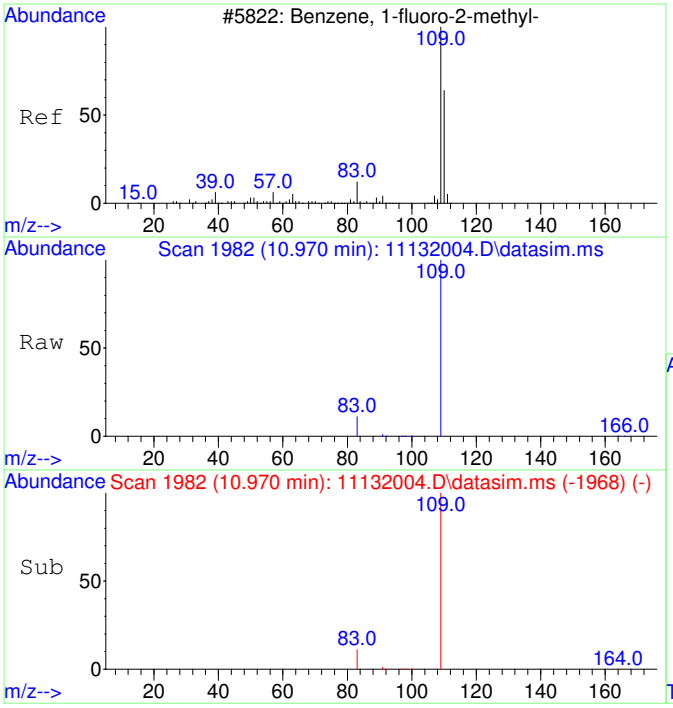


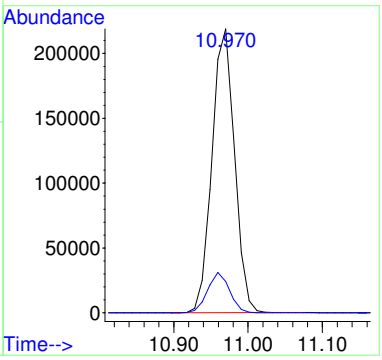
Table of Contents

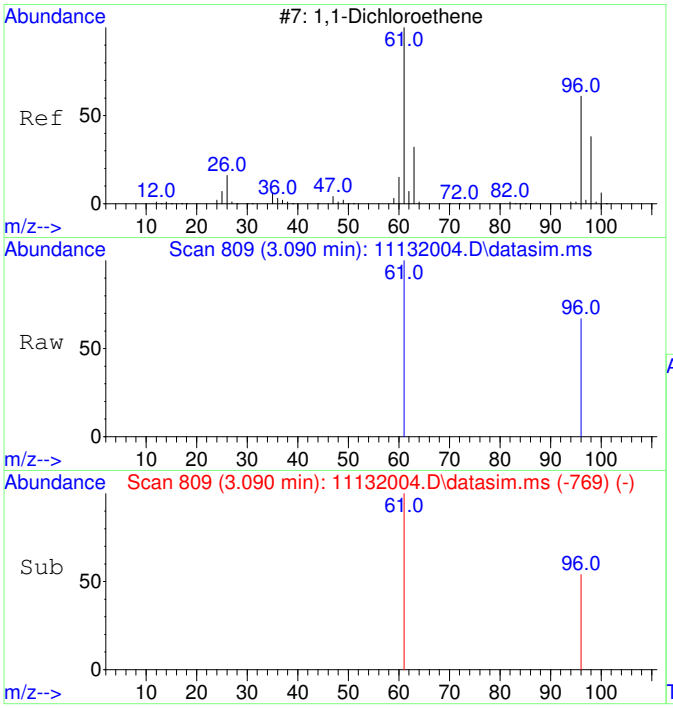


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.970 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:109 Resp: 460945

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	42.3

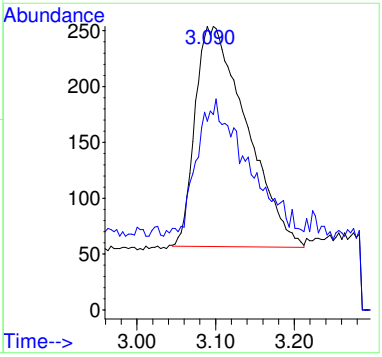


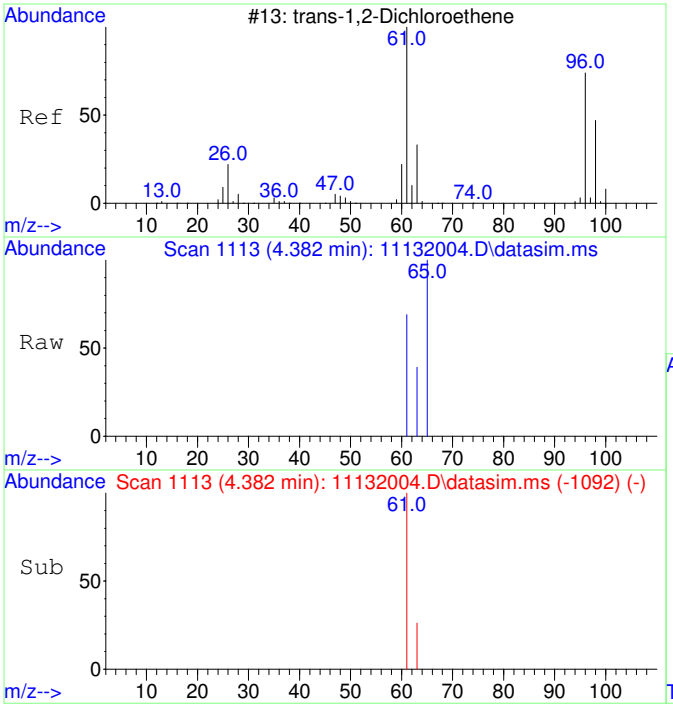


#2
1,1-Dichloroethene
Concen: 48.73 ug/L m
RT: 3.090 min Scan# 809
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 897

Ion	Ratio	Lower	Upper
61	100		
96	87.3	37.2	97.2

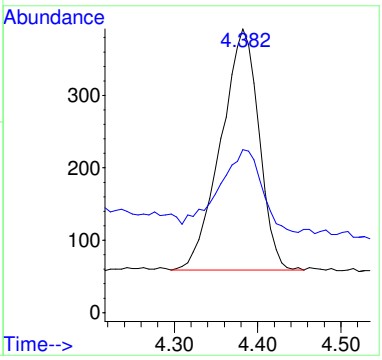


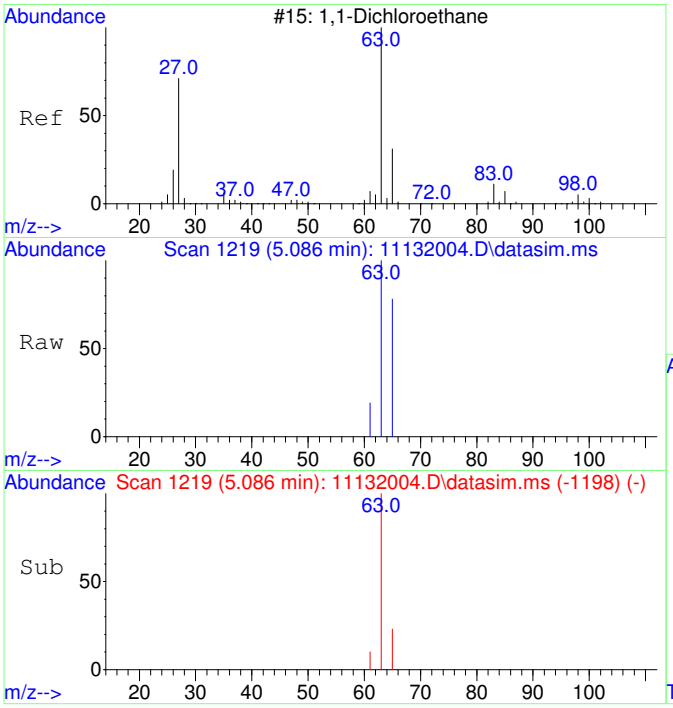


#3
trans-1,2-Dichloroethene
Concen: 49.84 ug/L
RT: 4.382 min Scan# 1113
Delta R.T. -0.013 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 1060

Ion	Ratio	Lower	Upper
61	100		
63	39.9	2.4	62.4

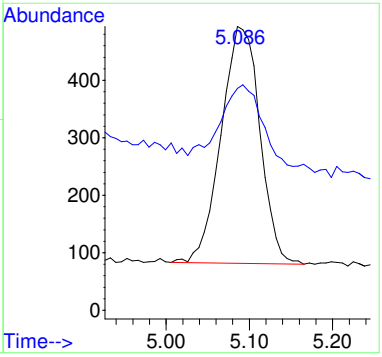


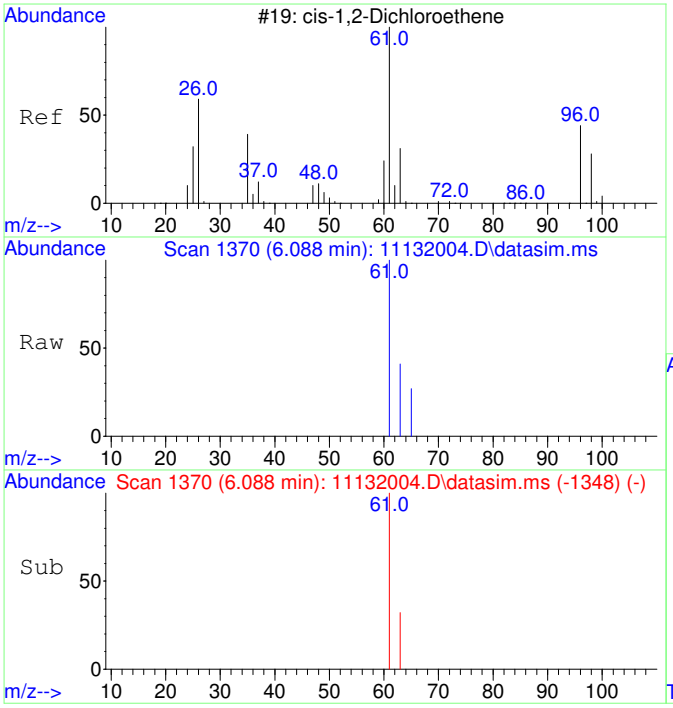


#4
1,1-Dichloroethane
Concen: 50.39 ug/L
RT: 5.086 min Scan# 1219
Delta R.T. -0.013 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 63 Resp: 1334

Ion	Ratio	Lower	Upper
63	100		
65	51.6	1.8	61.8

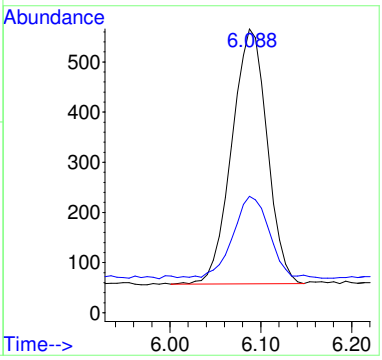


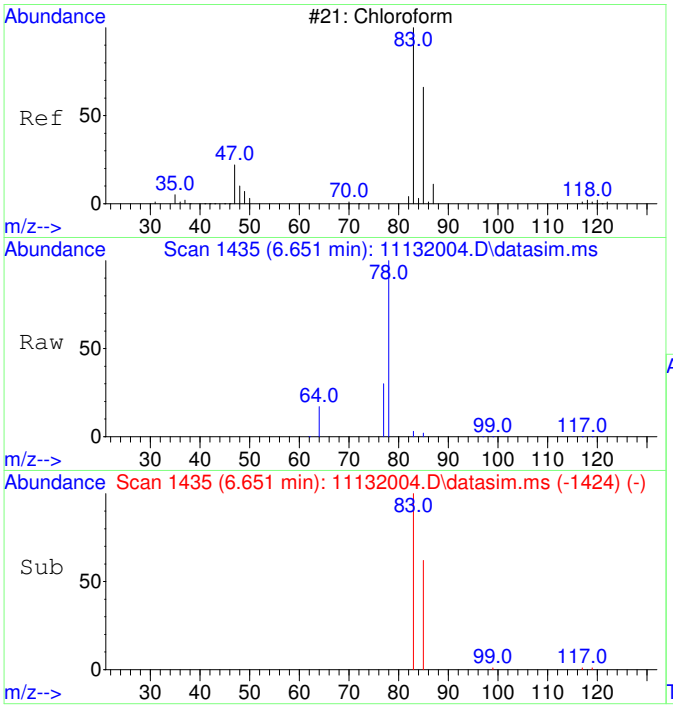


#5
cis-1,2-Dichloroethene
Concen: 49.14 ug/L
RT: 6.088 min Scan# 1370
Delta R.T. -0.007 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 1373

Ion	Ratio	Lower	Upper
61	100		
63	32.8	2.5	62.5

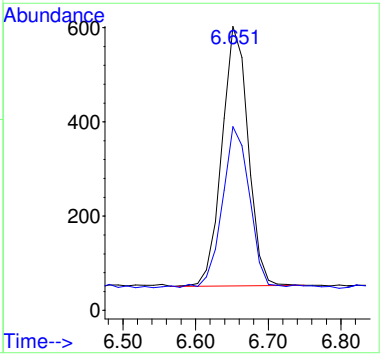


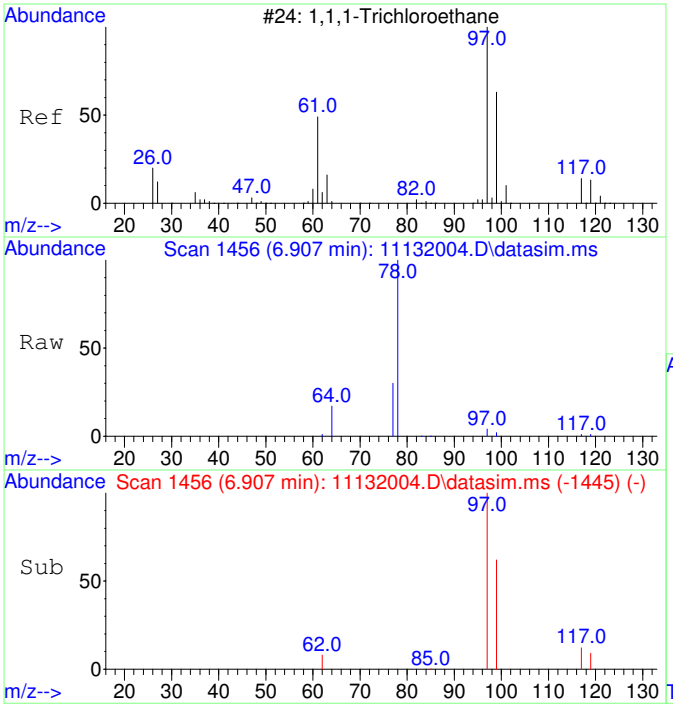


#6
Chloroform
Concen: 48.22 ug/L
RT: 6.651 min Scan# 1435
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 1379

Ion	Ratio	Lower	Upper
83	100		
85	63.6	35.1	95.1

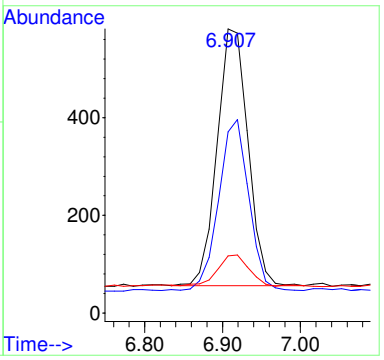


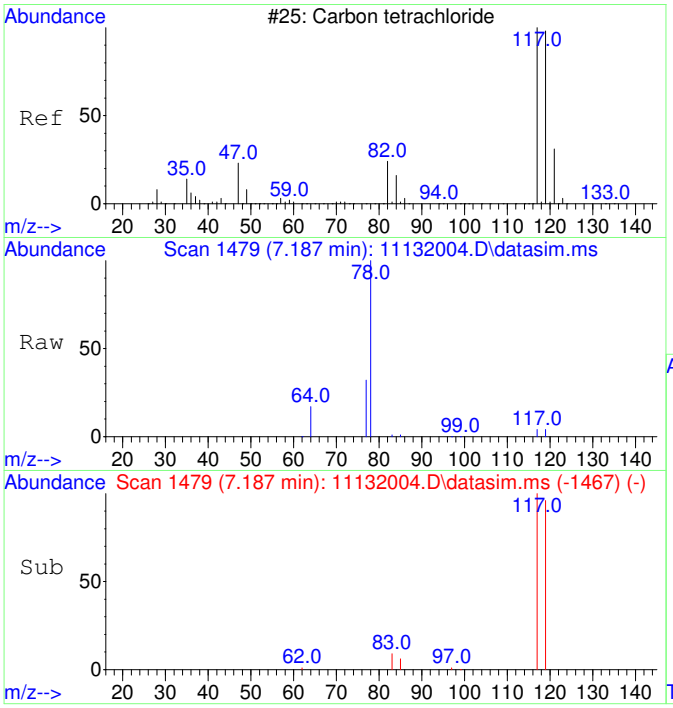


#7
1,1,1-Trichloroethane
Concen: 46.65 ug/L
RT: 6.907 min Scan# 1456
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 1449

Ion	Ratio	Lower	Upper
97	100		
99	65.0	34.6	94.6
117	12.8	0.0	43.2

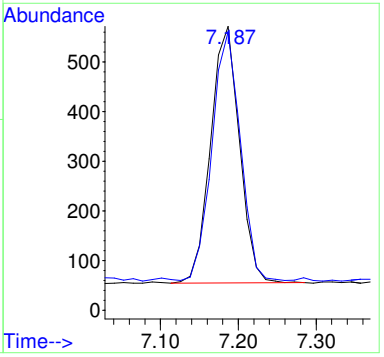


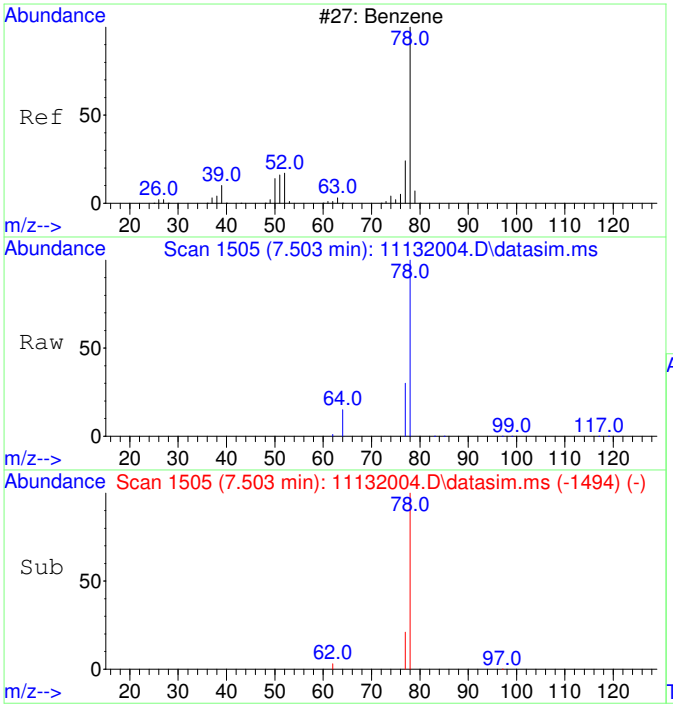


#8
Carbon tetrachloride
Concen: 45.36 ug/L
RT: 7.187 min Scan# 1479
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:117 Resp: 1326

Ion	Ratio	Lower	Upper
117	100		
119	95.2	66.4	126.4

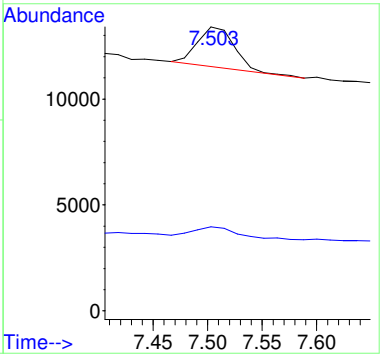


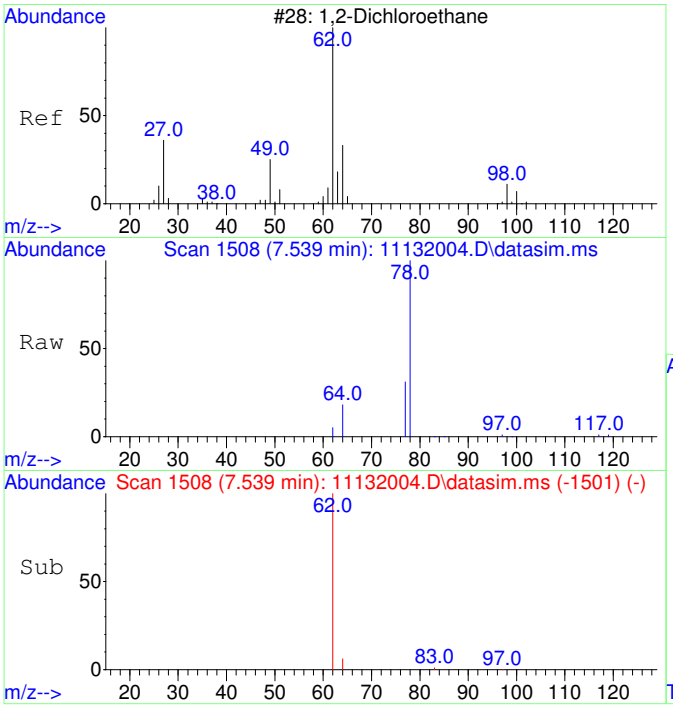


#9
Benzene
Concen: 53.86 ug/L
RT: 7.503 min Scan# 1505
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 78 Resp: 4218

Ion	Ratio	Lower	Upper
78	100		
77	47.2	0.0	53.2

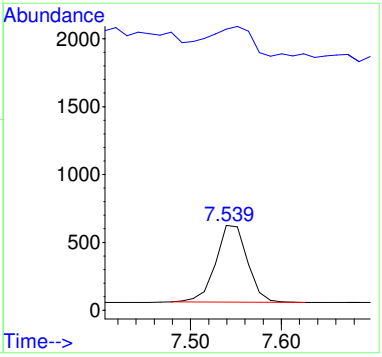


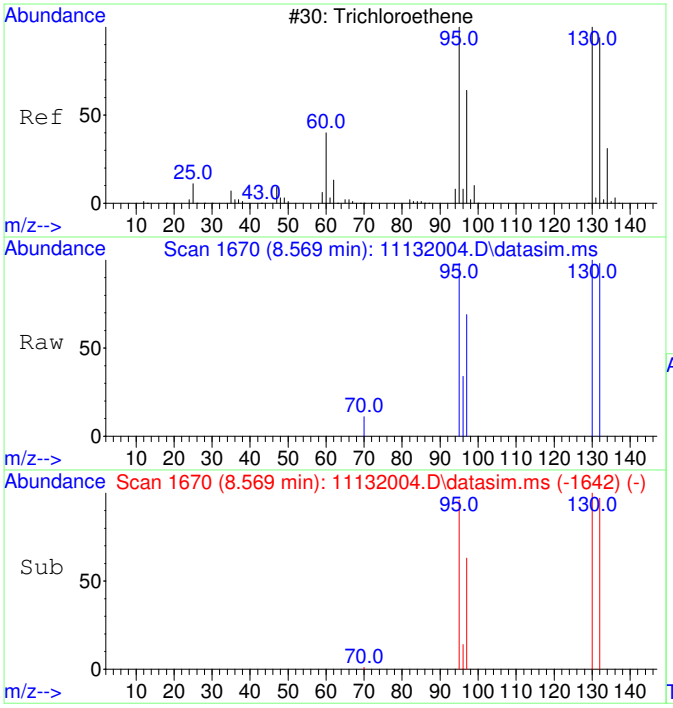


#10
1,2-Dichloroethane
Concen: 48.86 ug/L
RT: 7.539 min Scan# 1508
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 62 Resp: 1366

Ion	Ratio	Lower	Upper
62	100		
64	49.6	2.3	62.3

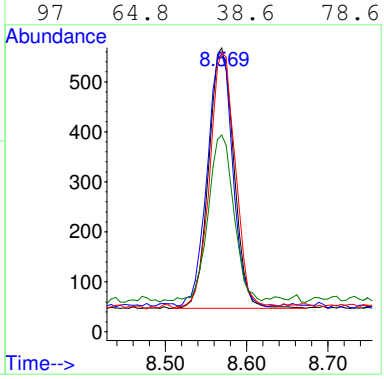


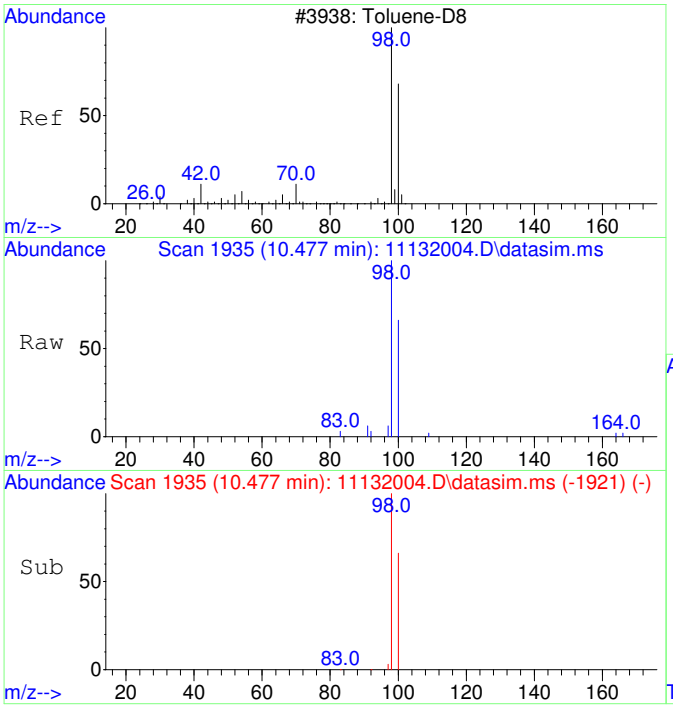


#11
Trichloroethene
Concen: 47.79 ug/L
RT: 8.569 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:130 Resp: 1127

Ion	Ratio	Lower	Upper
130	100		
95	97.9	60.7	120.7
132	98.8	76.0	116.0
97	64.8	38.6	78.6

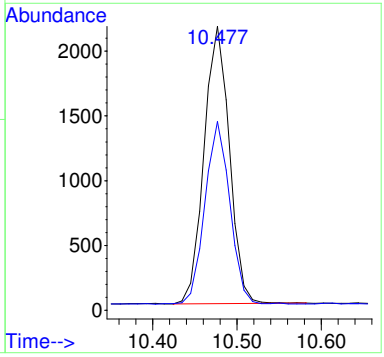


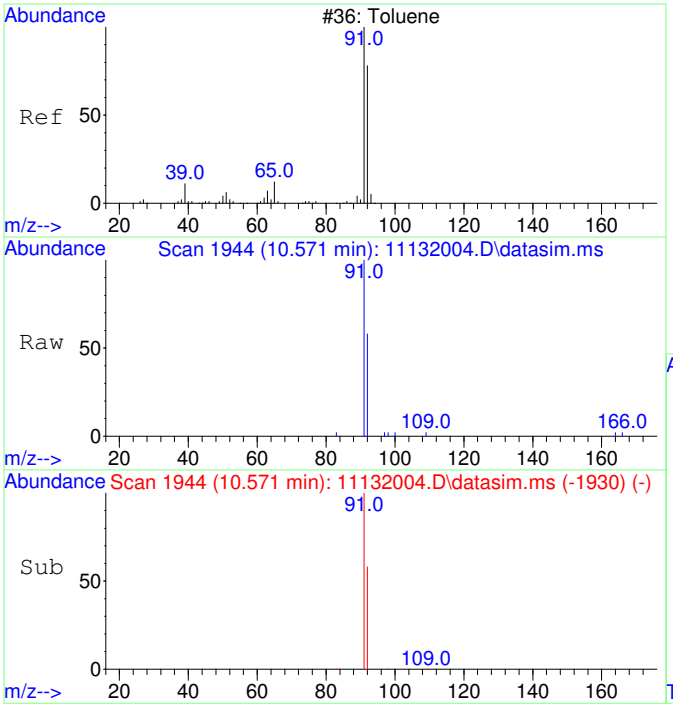


#12
Toluene-d8
Concen: 49.50 ug/L
RT: 10.477 min Scan# 1935
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 98 Resp: 4467

Ion	Ratio	Lower	Upper
98	100		
100	64.3	37.1	97.1

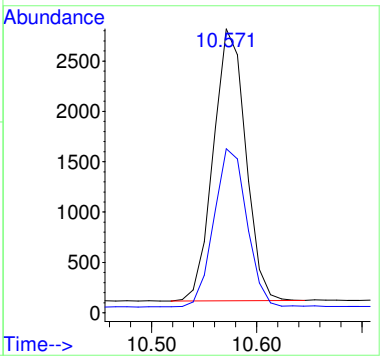


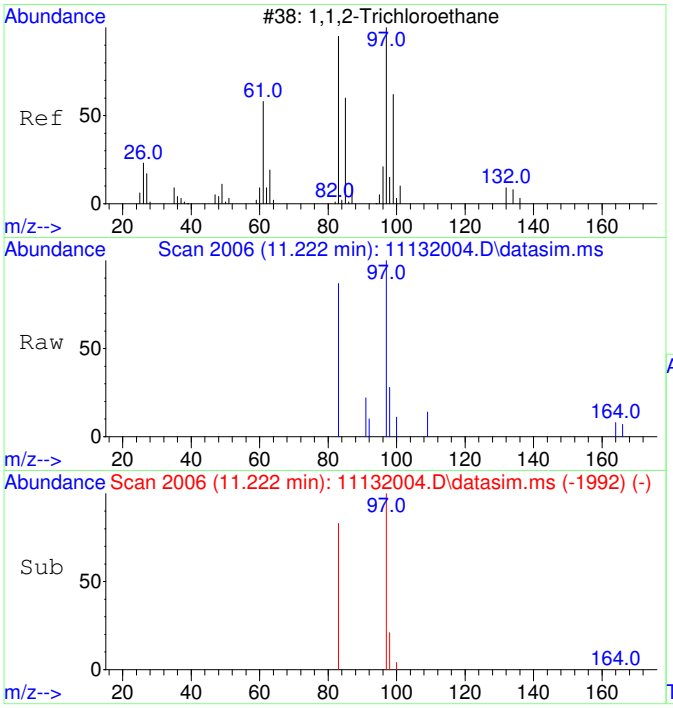


#13
Toluene
Concen: 50.08 ug/L
RT: 10.571 min Scan# 1944
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 5761

Ion	Ratio	Lower	Upper
91	100		
92	59.3	29.9	89.9

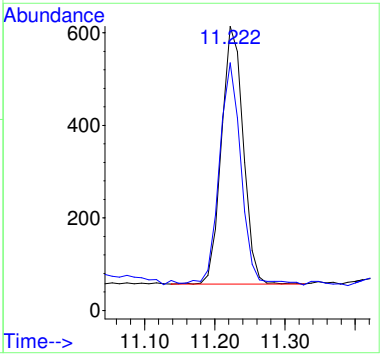


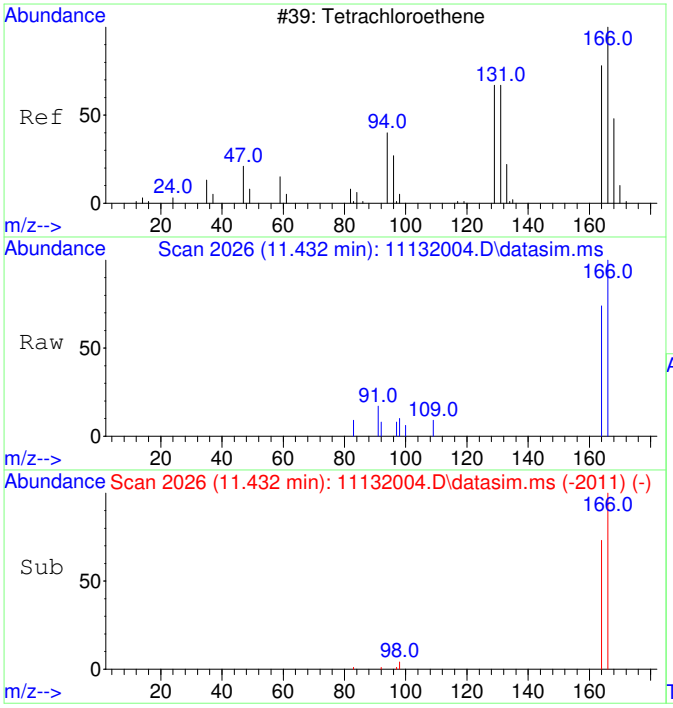


#14
1,1,2-Trichloroethane
Concen: 48.03 ug/L
RT: 11.222 min Scan# 2006
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 1204

Ion	Ratio	Lower	Upper
97	100		
83	84.9	51.2	111.2

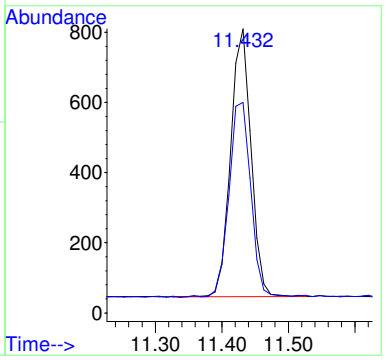


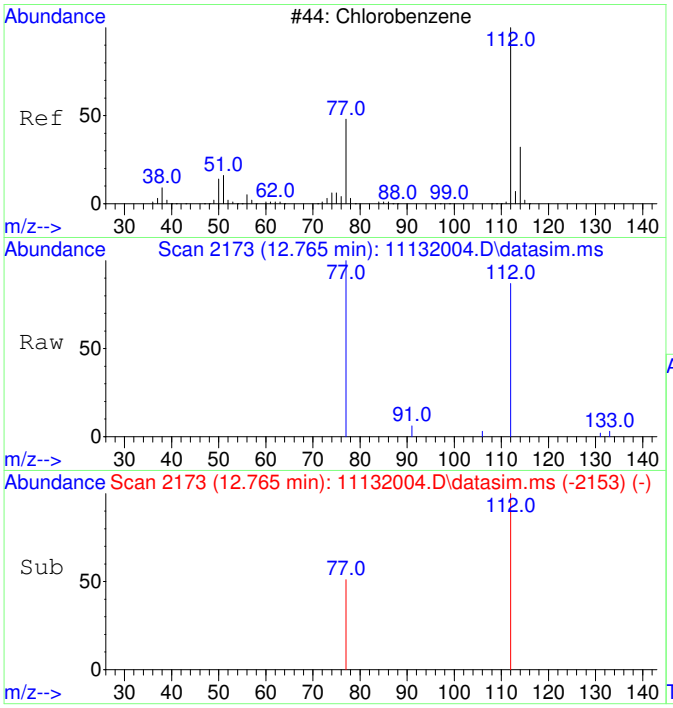


#15
Tetrachloroethene
Concen: 48.60 ug/L
RT: 11.432 min Scan# 2026
Delta R.T. 0.010 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:166 Resp: 1618

Ion	Ratio	Lower	Upper
166	100		
164	77.4	47.8	107.8

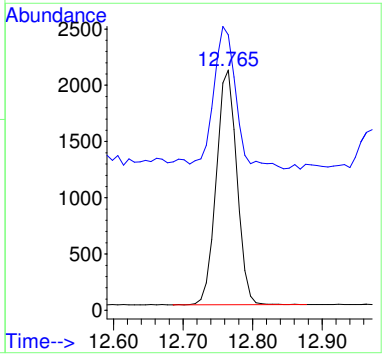


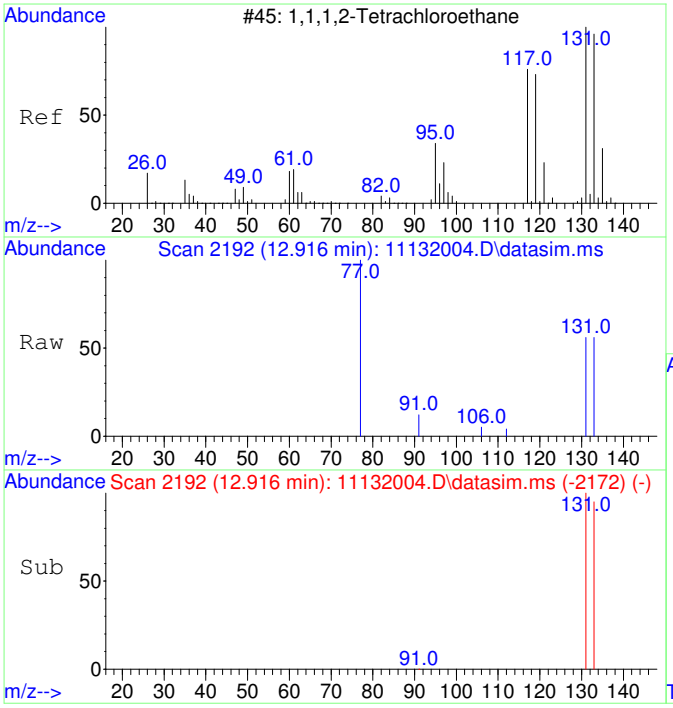


#16
Chlorobenzene
Concen: 52.03 ug/L
RT: 12.765 min Scan# 2173
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:112 Resp: 4286

Ion	Ratio	Lower	Upper
112	100		
77	66.3	23.6	83.6

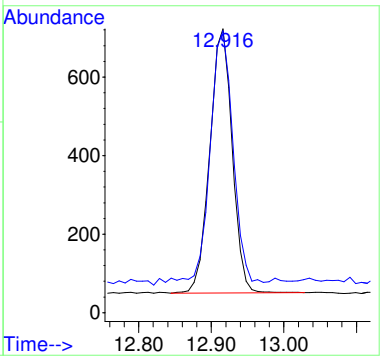


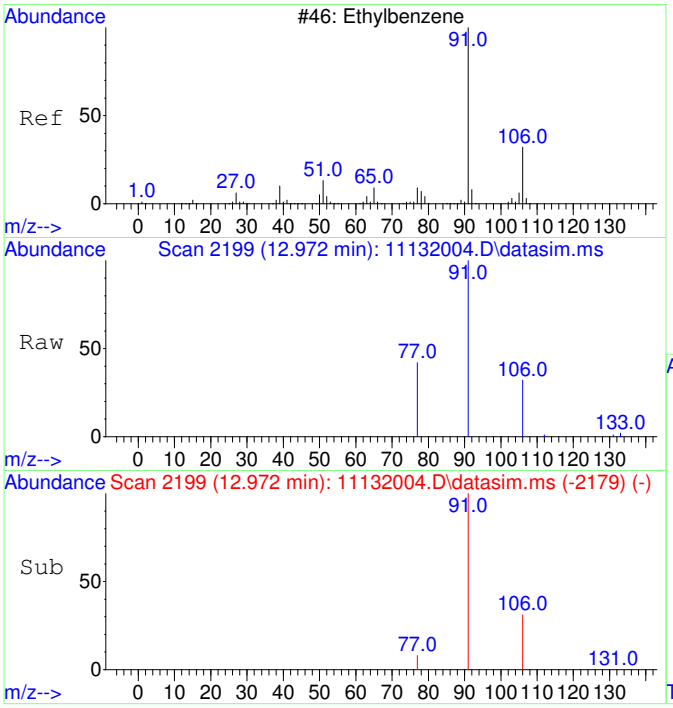


#17
1,1,1,2-Tetrachloroethane
Concen: 48.99 ug/L
RT: 12.916 min Scan# 2192
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:131 Resp: 1446

Ion	Ratio	Lower	Upper
131	100		
133	100.8	66.3	126.3

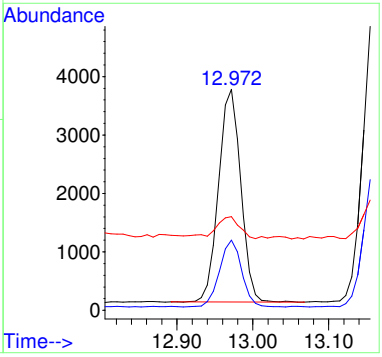


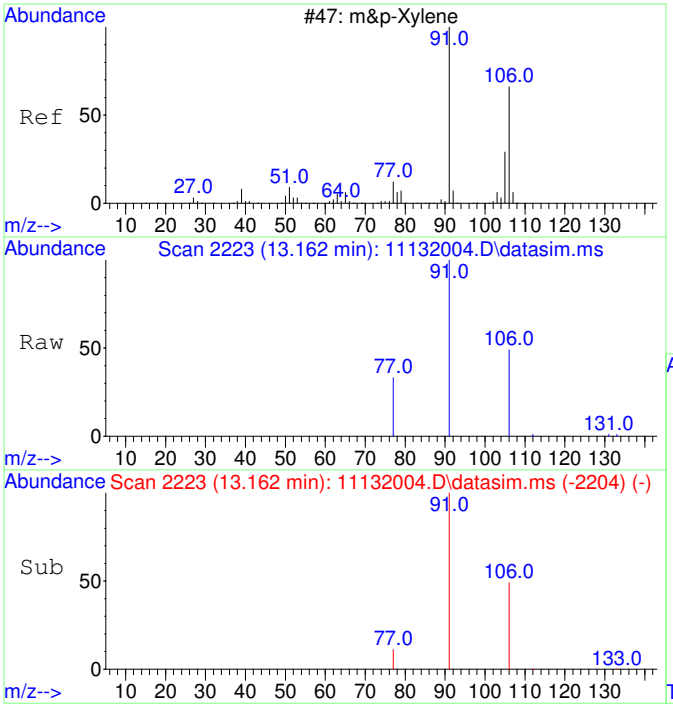


#18
Ethylbenzene
Concen: 52.91 ug/L
RT: 12.972 min Scan# 2199
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 7409

Ion	Ratio	Lower	Upper
91	100		
106	31.2	3.0	63.0
77	11.3	0.0	38.2

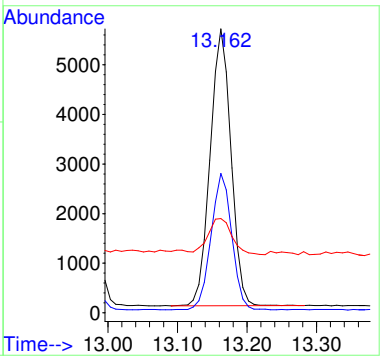


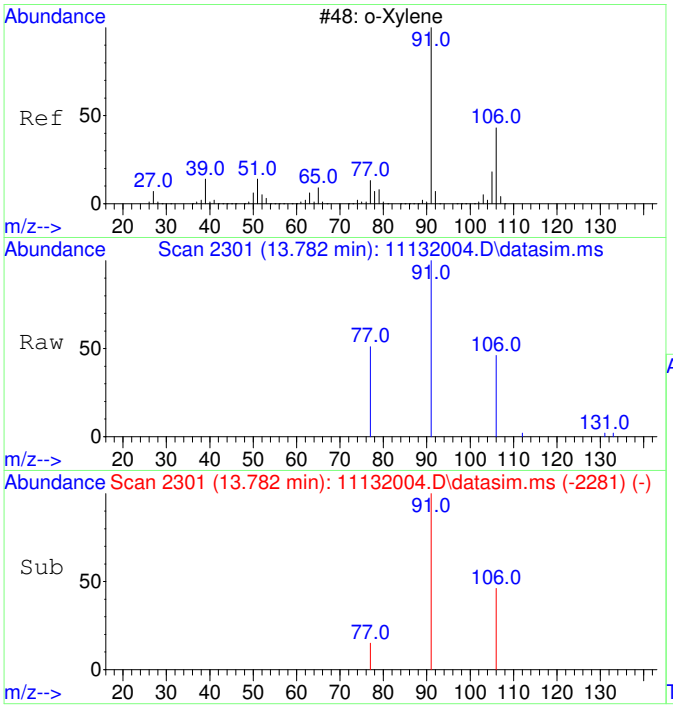


#19
m&p-Xylene
Concen: 105.95 ug/L
RT: 13.162 min Scan# 2223
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 11595

Ion	Ratio	Lower	Upper
91	100		
106	49.0	22.2	82.2
77	14.9	0.0	42.4

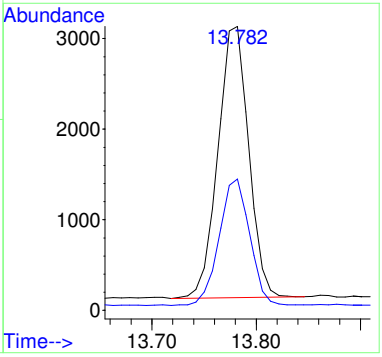


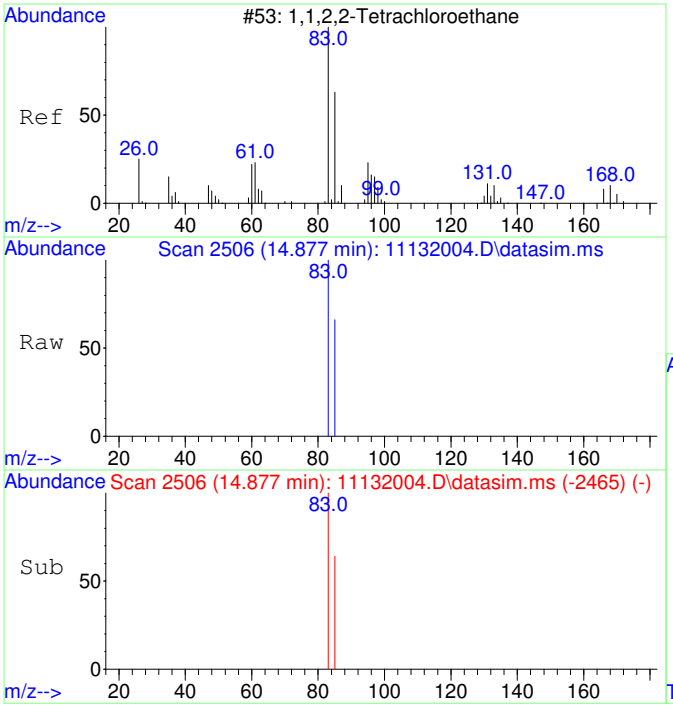


#20
o-Xylene
Concen: 52.24 ug/L
RT: 13.782 min Scan# 2301
Delta R.T. 0.008 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 6108

Ion	Ratio	Lower	Upper
91	100		
106	46.2	19.2	79.2

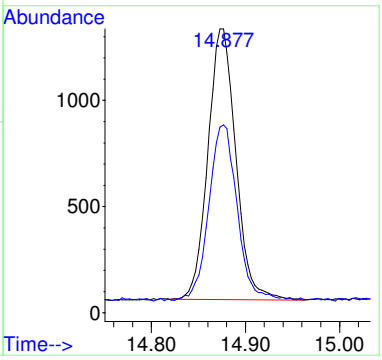


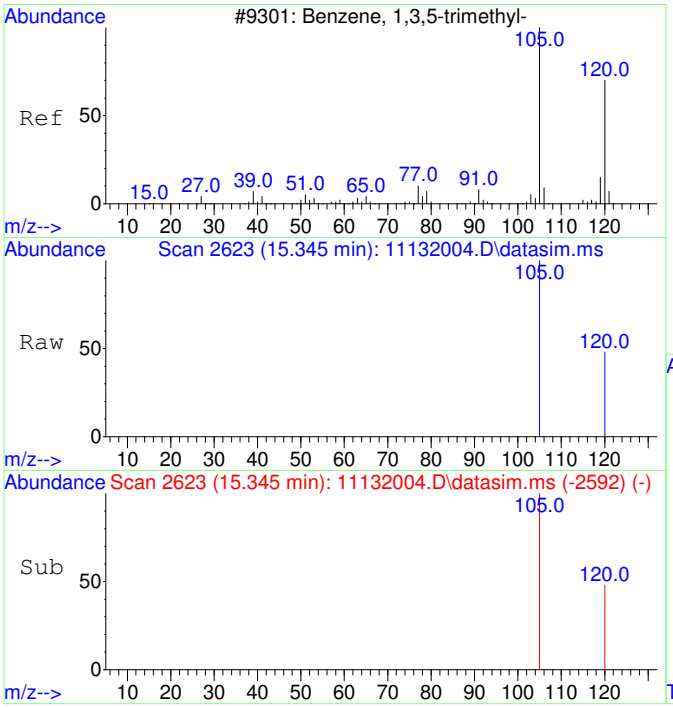


#21
1,1,2,2-Tetrachloroethane
Concen: 50.75 ug/L
RT: 14.877 min Scan# 2506
Delta R.T. 0.004 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 2630

Ion	Ratio	Lower	Upper
83	100		
85	65.2	34.8	94.8

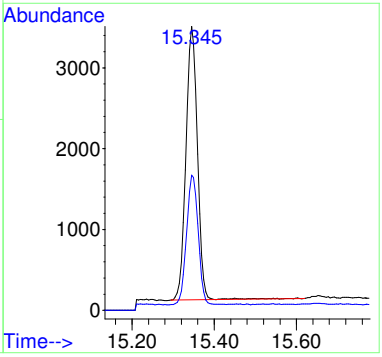


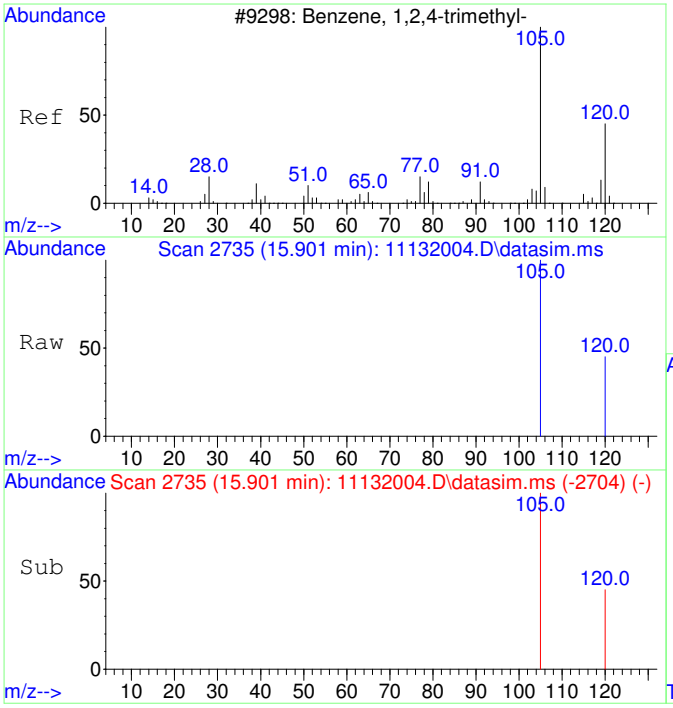


#22
1,3,5-Trimethylbenzene
Concen: 52.70 ug/L
RT: 15.345 min Scan# 2623
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 6559

Ion	Ratio	Lower	Upper
105	100		
120	47.6	21.1	81.1

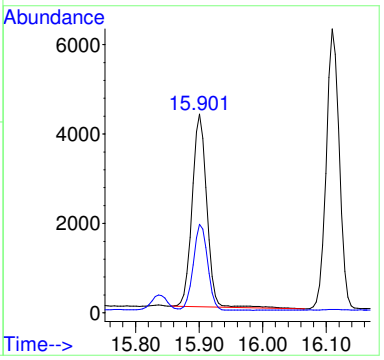


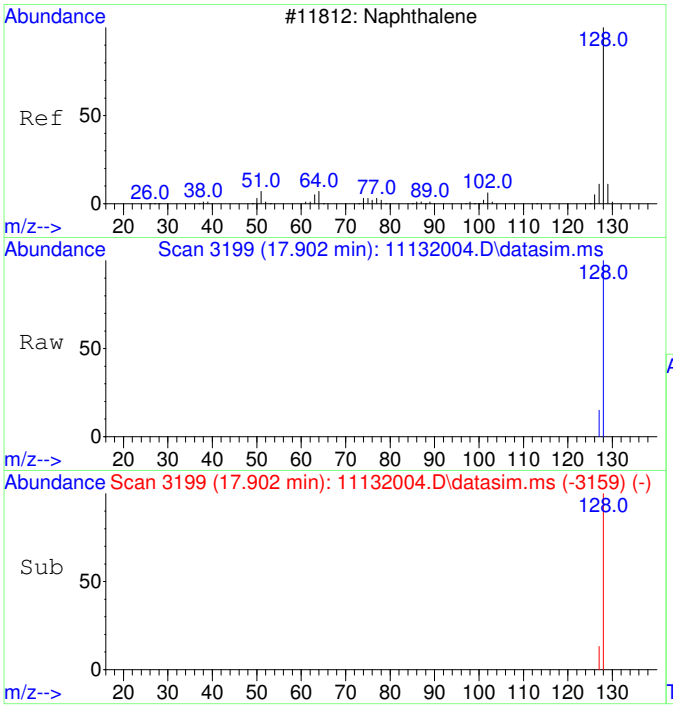


#23
1,2,4-Trimethylbenzene
Concen: 53.54 ug/L
RT: 15.901 min Scan# 2735
Delta R.T. 0.005 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 6921

Ion	Ratio	Lower	Upper
105	100		
120	42.3	17.2	77.2

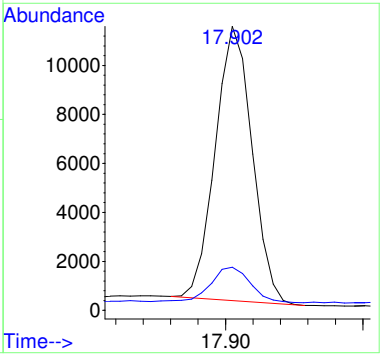


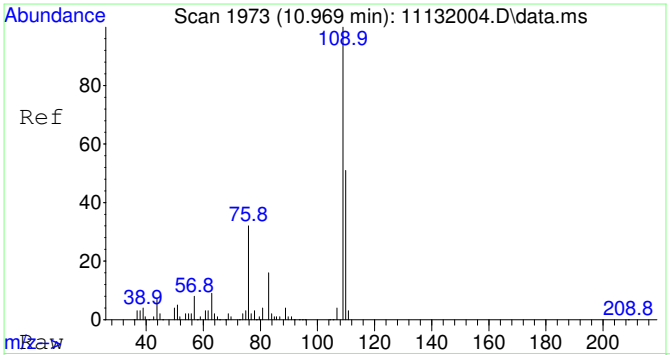


#24
Naphthalene
Concen: 50.74 ug/L
RT: 17.902 min Scan# 3199
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:128 Resp: 10366

Ion	Ratio	Lower	Upper
128	100		
127	13.7	0.0	42.5

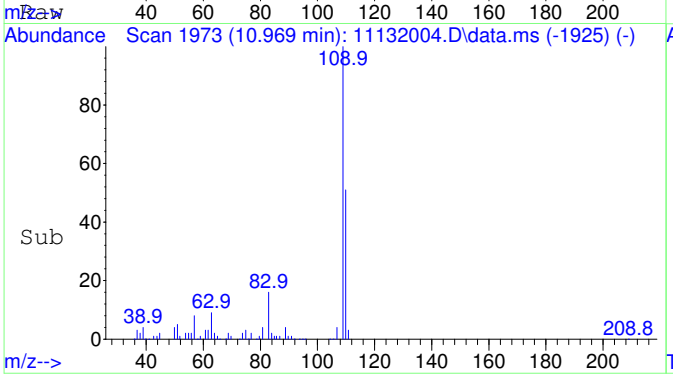


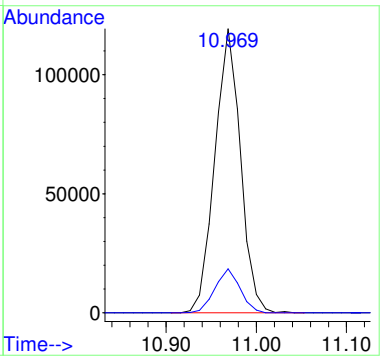


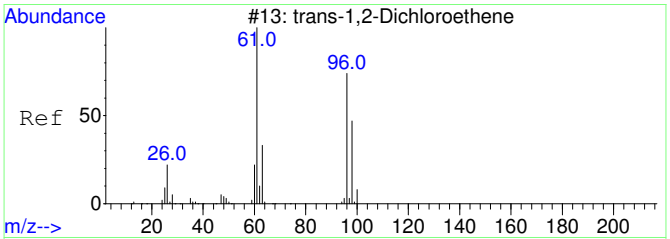
#25
2-Fluorotoluene SCAN
Concen: 5256.53 ug/L
RT: 10.969 min Scan# 1973
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

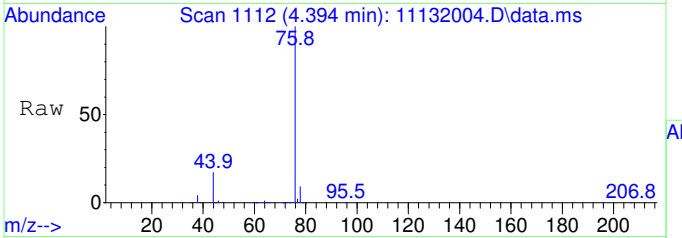
Tgt Ion:109 Resp: 236195

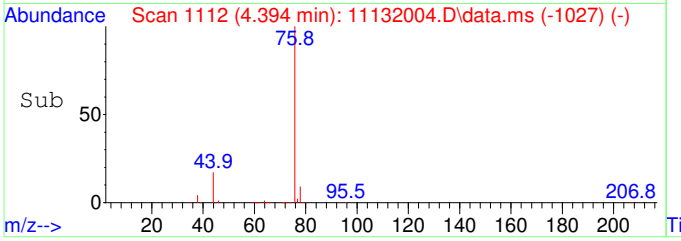
Ion	Ratio	Lower	Upper
109	100		
83	15.2	0.0	43.8







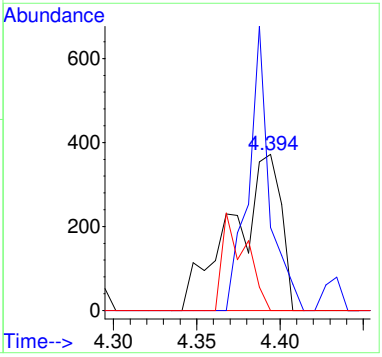


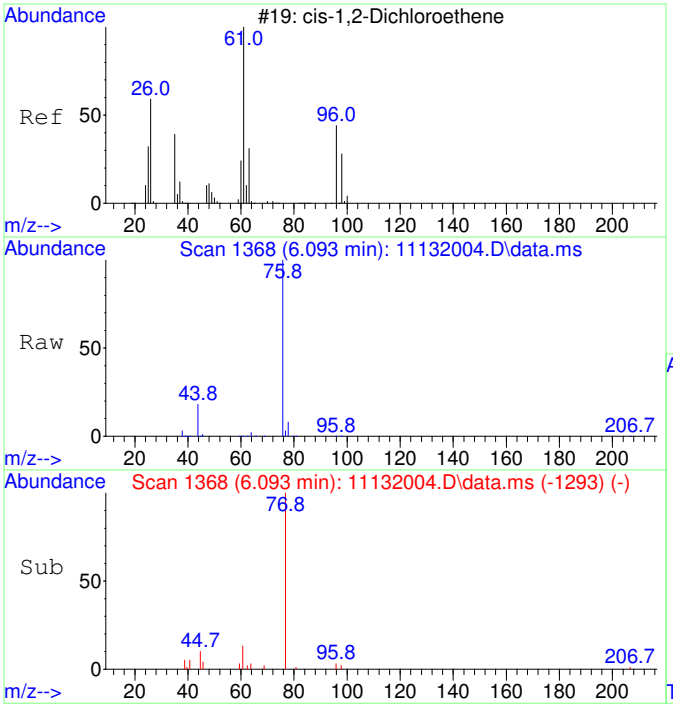


#27
trans-1,2-Dichloroethene SCAN
Concen: 64.02 ug/L
RT: 4.394 min Scan# 1112
Delta R.T. -0.007 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 756

Ion	Ratio	Lower	Upper
61	100		
96	79.4	49.0	109.0
98	0.0	20.5	80.5#

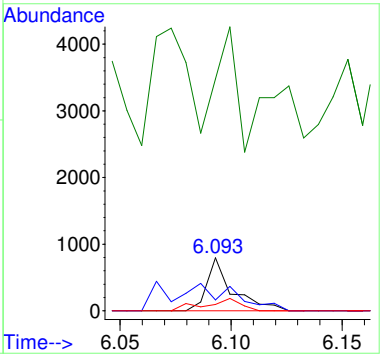


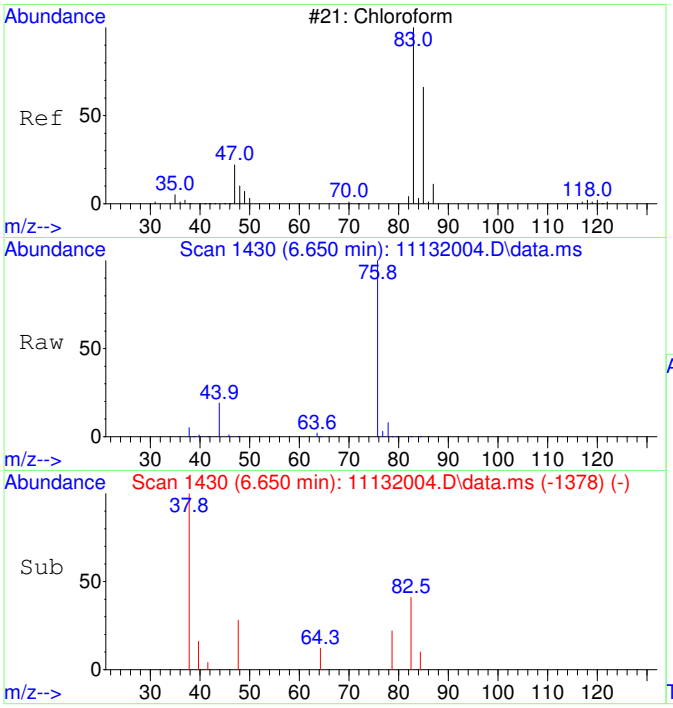


#29
cis-1,2-Dichloroethene SCAN
Concen: 43.57 ug/L
RT: 6.093 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 61 Resp: 638

Ion	Ratio	Lower	Upper
61	100		
96	9.4	39.9	99.9#
98	32.9	13.5	73.5
64	214.6	4.5	64.5#

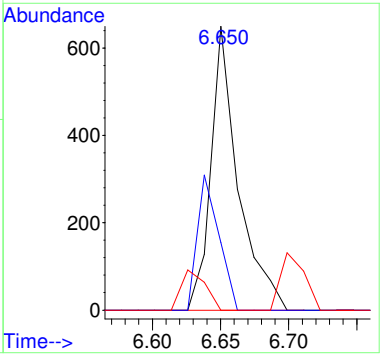


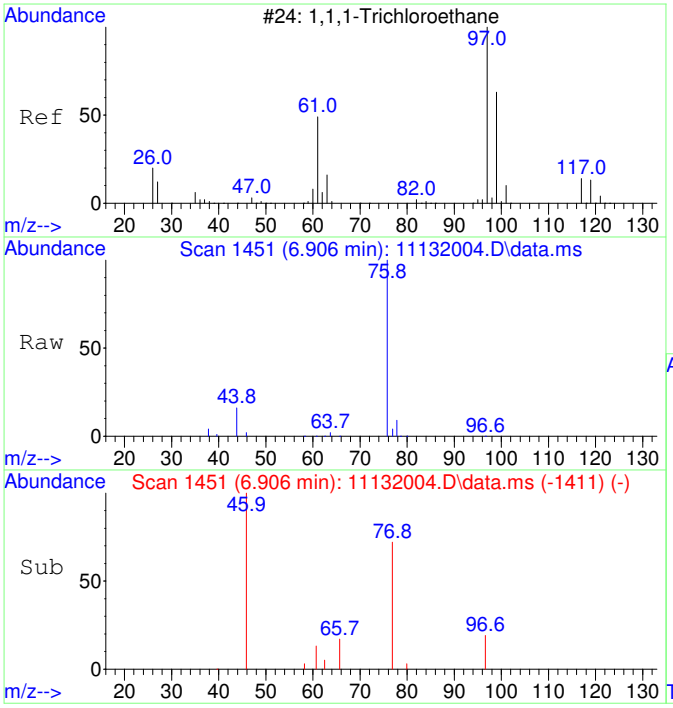


#30
Chloroform SCAN
Concen: 57.18 ug/L
RT: 6.650 min Scan# 1430
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 908

Ion	Ratio	Lower	Upper
83	100		
85	37.3	34.6	94.6
47	0.0	0.0	53.4

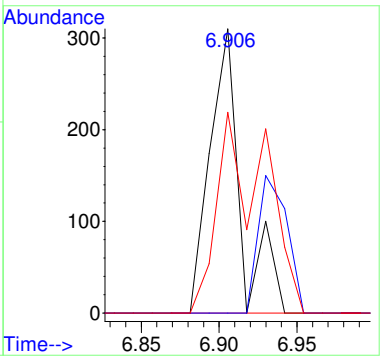


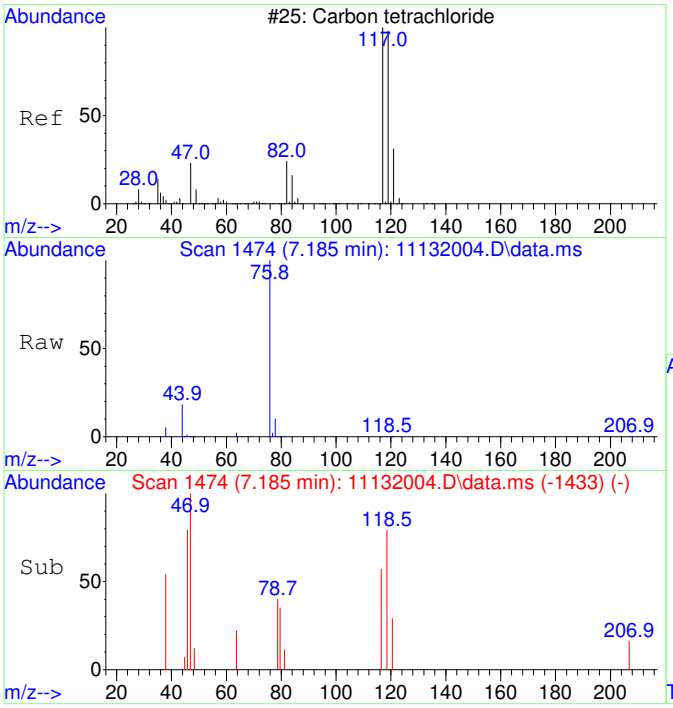


#31
1,1,1-Trichloroethane SCAN
Concen: 29.44 ug/L
RT: 6.906 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 426

Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.6	103.6#
61	109.2	18.0	78.0#

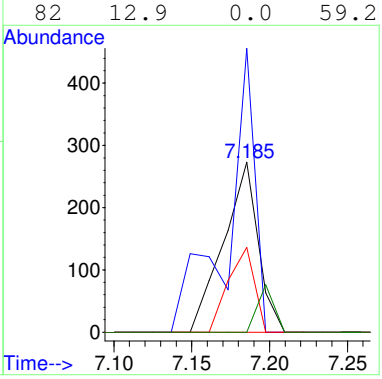


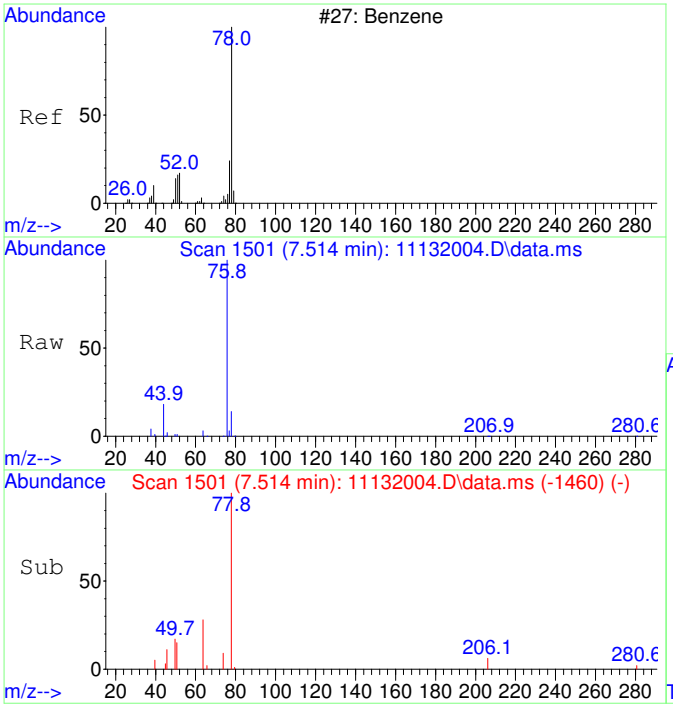


#32
Carbon tetrachloride SCAN
Concen: 28.15 ug/L
RT: 7.185 min Scan# 1474
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:117 Resp: 425

Ion	Ratio	Lower	Upper
117	100		
119	132.5	75.5	135.5
121	37.6	0.0	58.8
82	12.9	0.0	59.2

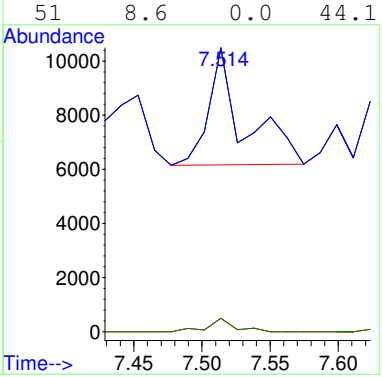


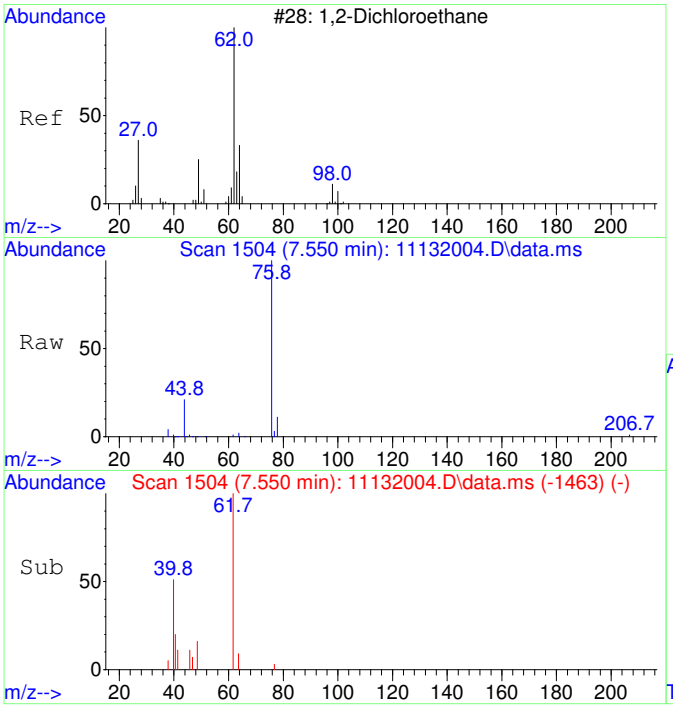


#33
Benzene SCAN
Concen: 192.94 ug/L
RT: 7.514 min Scan# 1501
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 78 Resp: 7688

Ion	Ratio	Lower	Upper
78	100		
78	100.0	70.0	130.0
51	8.6	0.0	47.9
51	8.6	0.0	44.1

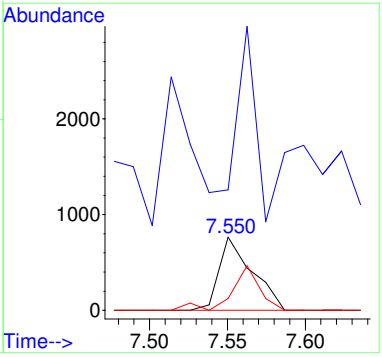


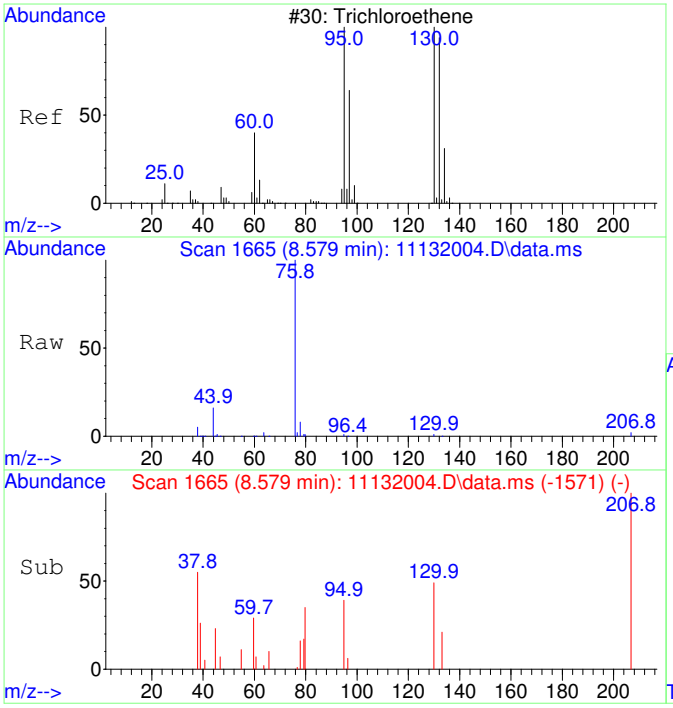


#34
1,2-Dichloroethane SCAN
Concen: 77.14 ug/L
RT: 7.550 min Scan# 1504
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 62 Resp: 1135

Ion	Ratio	Lower	Upper
62	100		
64	123.5	5.2	65.2#
49	50.9	3.9	63.9

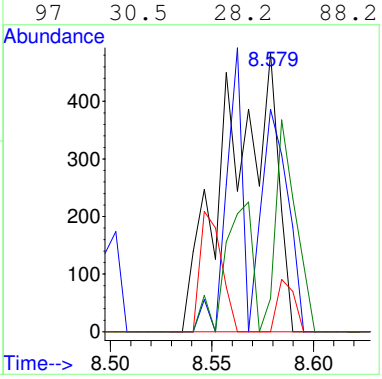


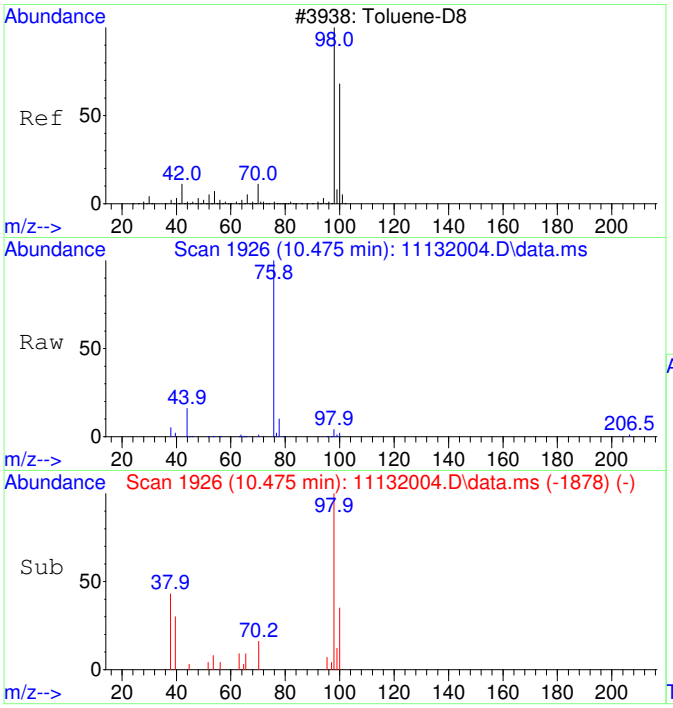


#35
Trichloroethene SCAN
Concen: 75.71 ug/L
RT: 8.579 min Scan# 1665
Delta R.T. 0.011 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:130 Resp: 829

Ion	Ratio	Lower	Upper
130	100		
95	42.1	60.5	120.5#
132	6.4	59.6	119.6#
97	30.5	28.2	88.2

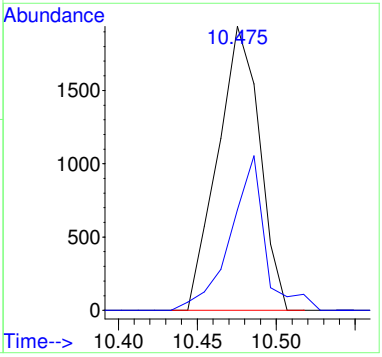


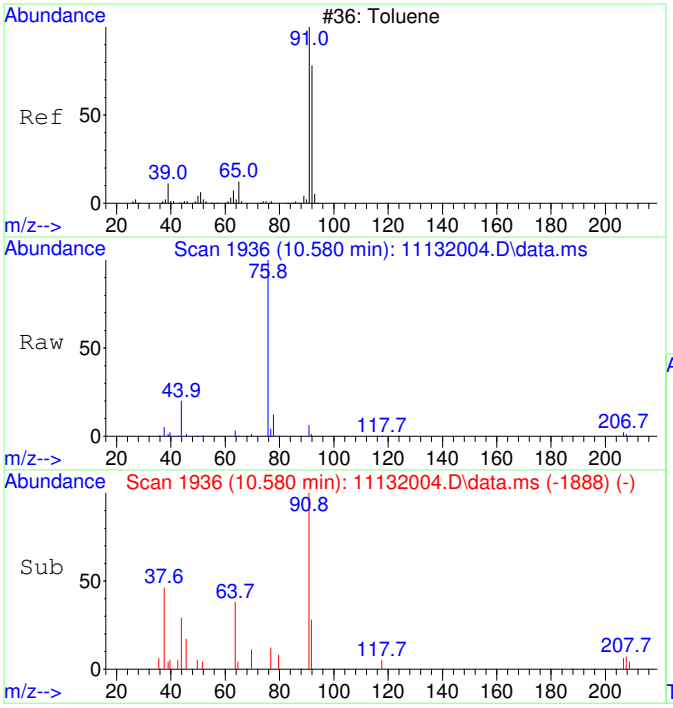


#36
Toluene-d8 SCAN
Concen: 81.45 ug/L
RT: 10.475 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 98 Resp: 3579

Ion	Ratio	Lower	Upper
98	100		
100	45.0	40.0	100.0

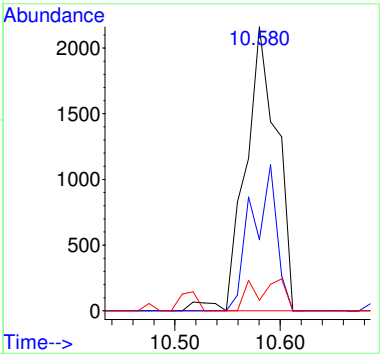


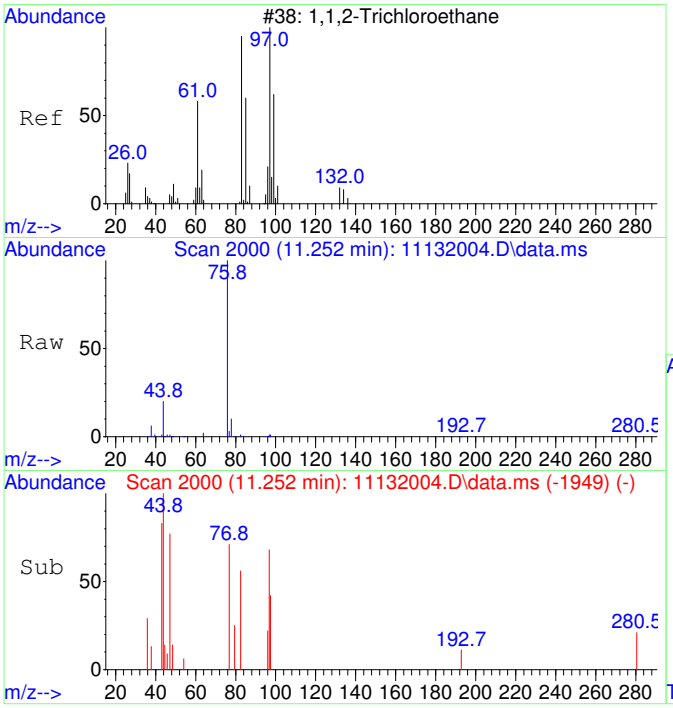


#37
Toluene SCAN
Concen: 79.39 ug/L
RT: 10.580 min Scan# 1936
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 4468

Ion	Ratio	Lower	Upper
91	100		
92	40.9	28.3	88.3
65	0.0	0.0	41.0

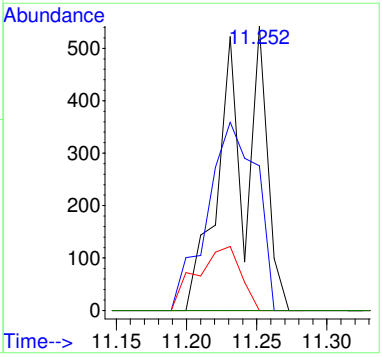


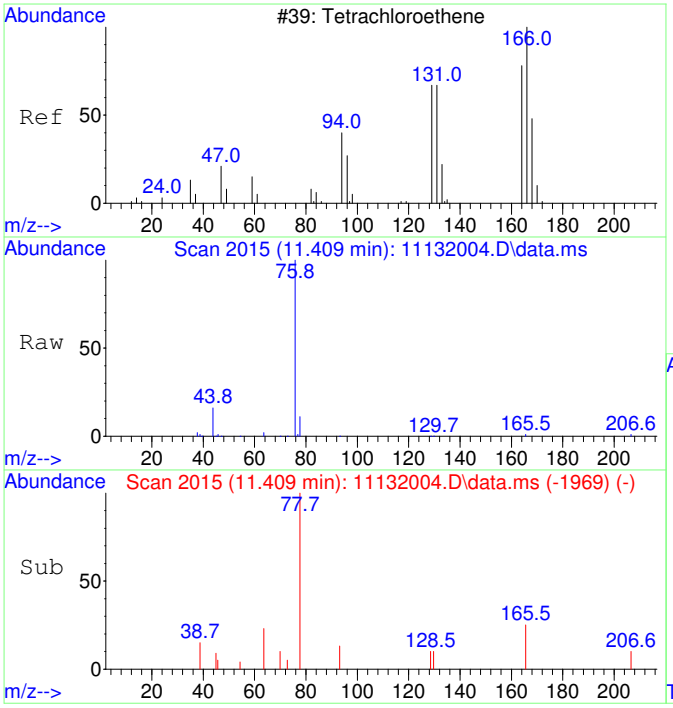


#38
1,1,2-Trichloroethane SCAN
Concen: 77.90 ug/L
RT: 11.252 min Scan# 2000
Delta R.T. 0.031 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 97 Resp: 984

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#

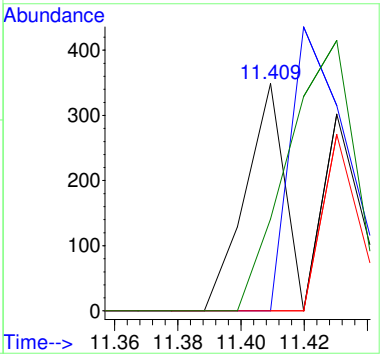


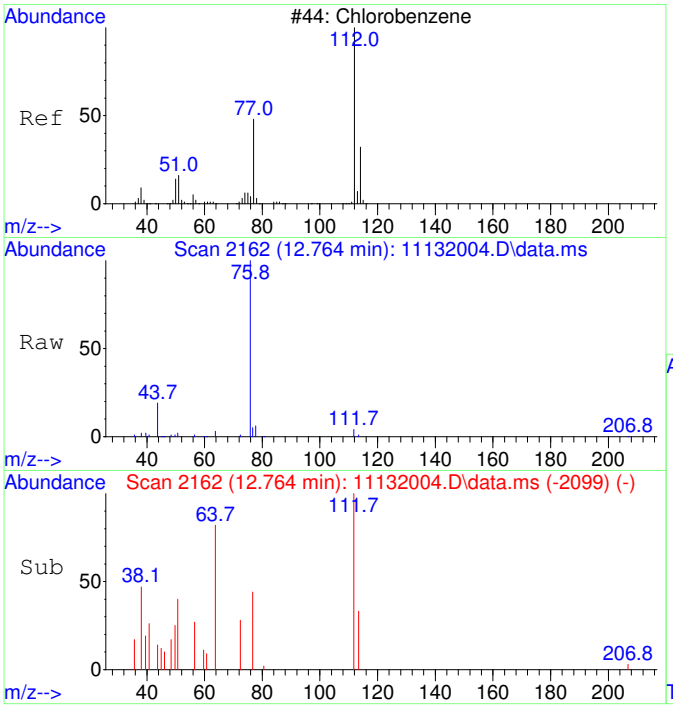


#39
Tetrachloroethene SCAN
Concen: 22.26 ug/L
RT: 11.409 min Scan# 2015
Delta R.T. -0.021 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:166 Resp: 301

Ion	Ratio	Lower	Upper
166	100		
164	199.0	50.9	110.9#
131	0.0	38.7	98.7#
129	0.0	41.8	101.8#

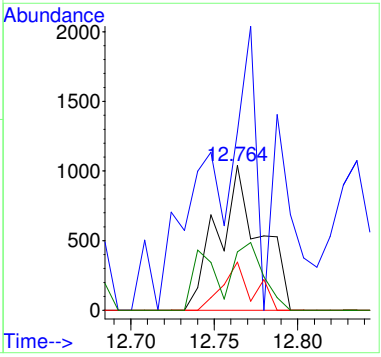


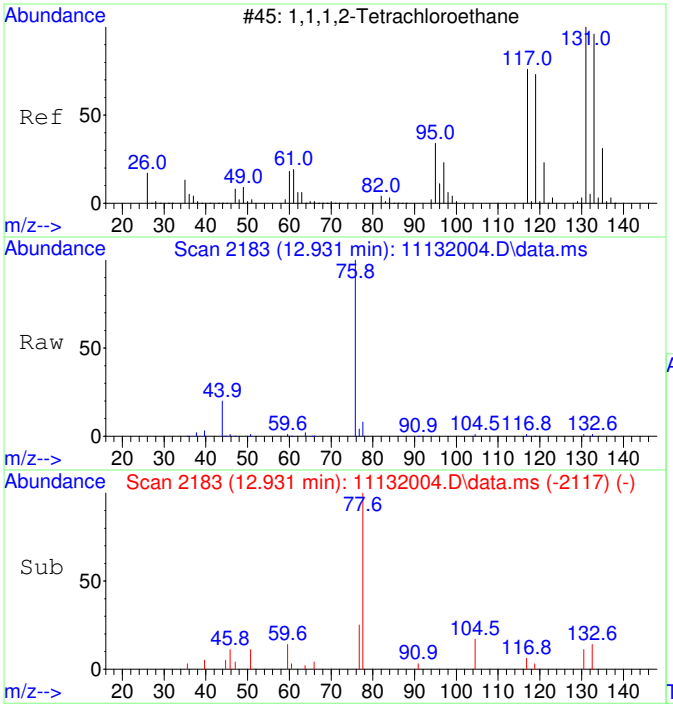


#40
Chlorobenzene SCAN
Concen: 48.19 ug/L
RT: 12.764 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:112 Resp: 1853

Ion	Ratio	Lower	Upper
112	100		
77	201.7	28.2	88.2#
114	23.3	2.3	62.3
51	26.7	0.0	50.1

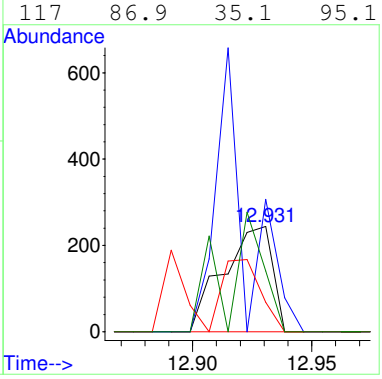


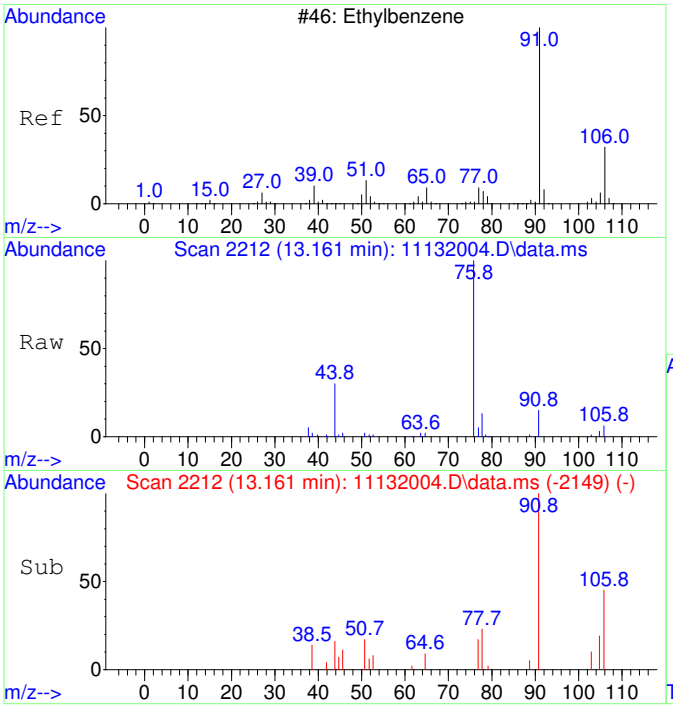


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 24.66 ug/L
RT: 12.931 min Scan# 2183
Delta R.T. 0.024 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:131 Resp: 351

Ion	Ratio	Lower	Upper
131	100		
133	164.7	66.9	126.9#
119	54.1	40.4	100.4
117	86.9	35.1	95.1

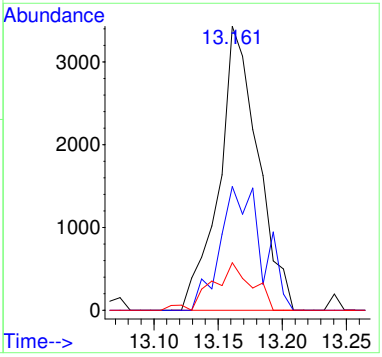


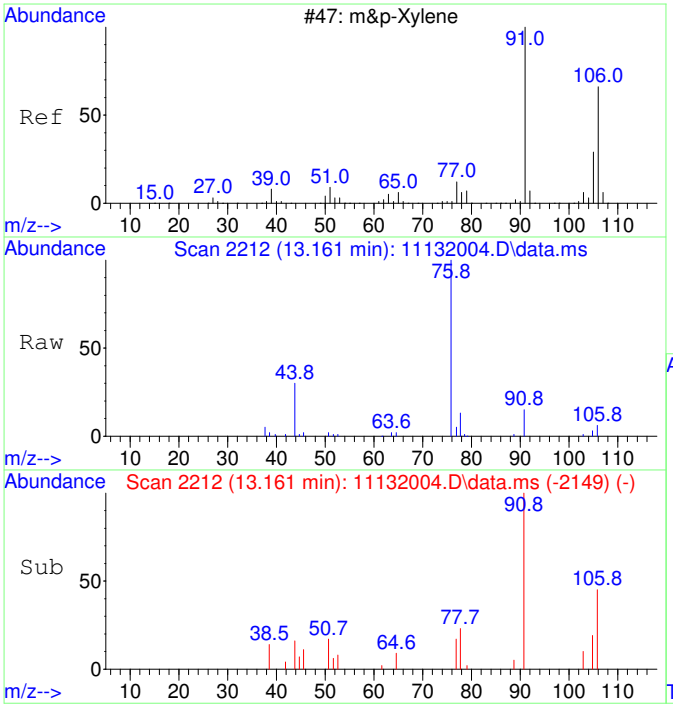


#42
Ethylbenzene SCAN
Concen: 70.13 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 7190

Ion	Ratio	Lower	Upper
91	100		
106	47.4	23.1	83.1
51	17.2	0.0	40.1

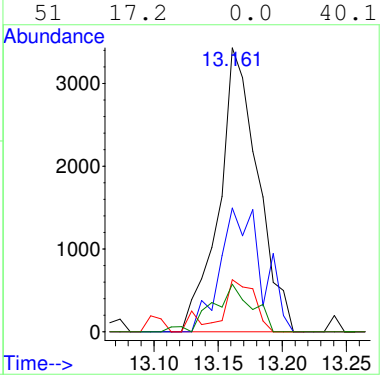


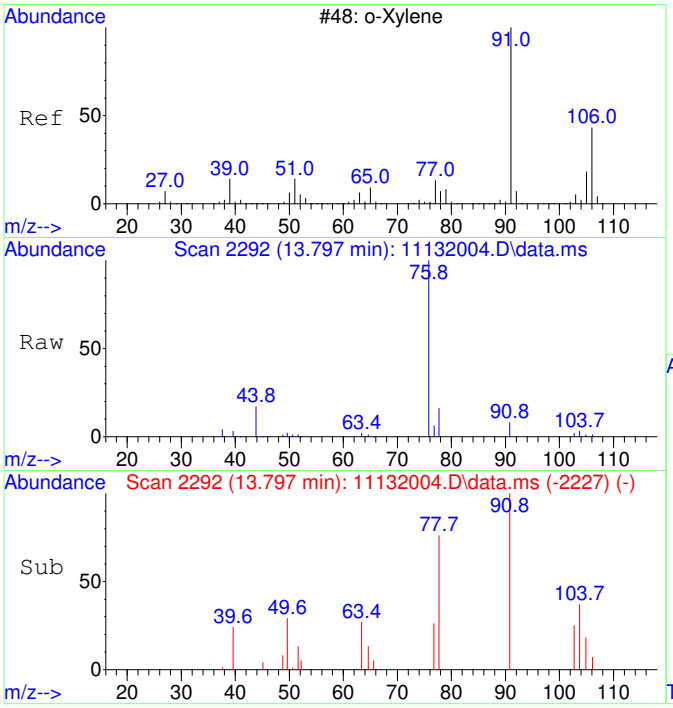


#43
m&p-Xylene SCAN
Concen: 70.13 ug/L
RT: 13.161 min Scan# 2212
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 7190

Ion	Ratio	Lower	Upper
91	100		
106	47.4	23.1	83.1
105	11.6	0.0	54.7
51	17.2	0.0	40.1

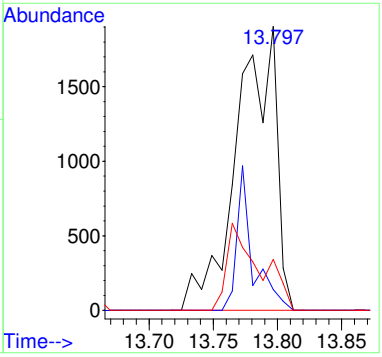


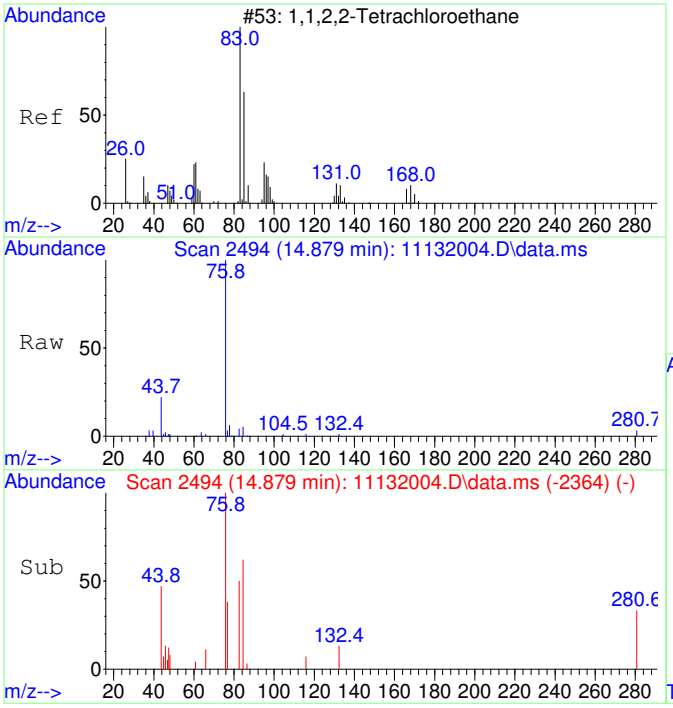


#44
o-Xylene SCAN
Concen: 74.84 ug/L
RT: 13.797 min Scan# 2292
Delta R.T. 0.016 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 91 Resp: 4107

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

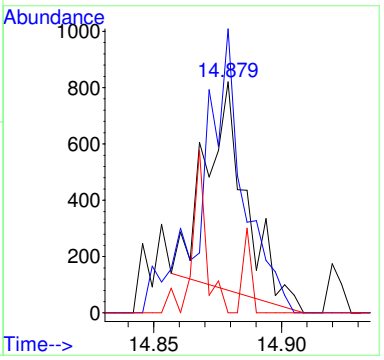


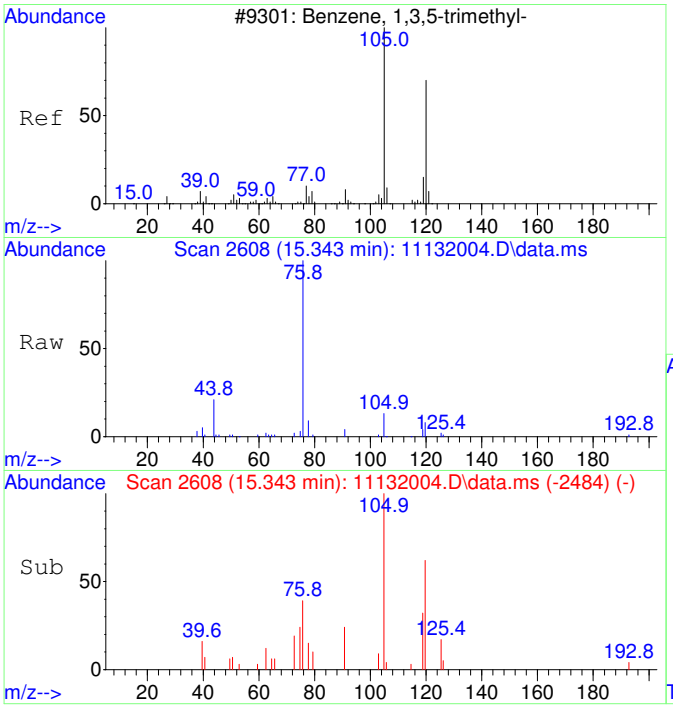


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 29.56 ug/L
RT: 14.879 min Scan# 2494
Delta R.T. 0.007 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion: 83 Resp: 791

Ion	Ratio	Lower	Upper
83	100		
85	142.2	35.9	95.9#
95	8.5	0.0	47.4

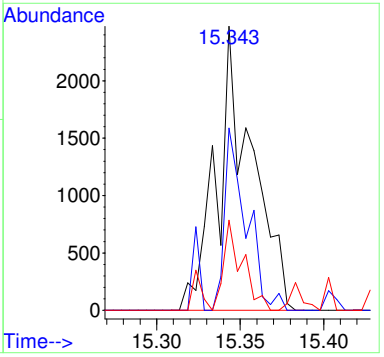


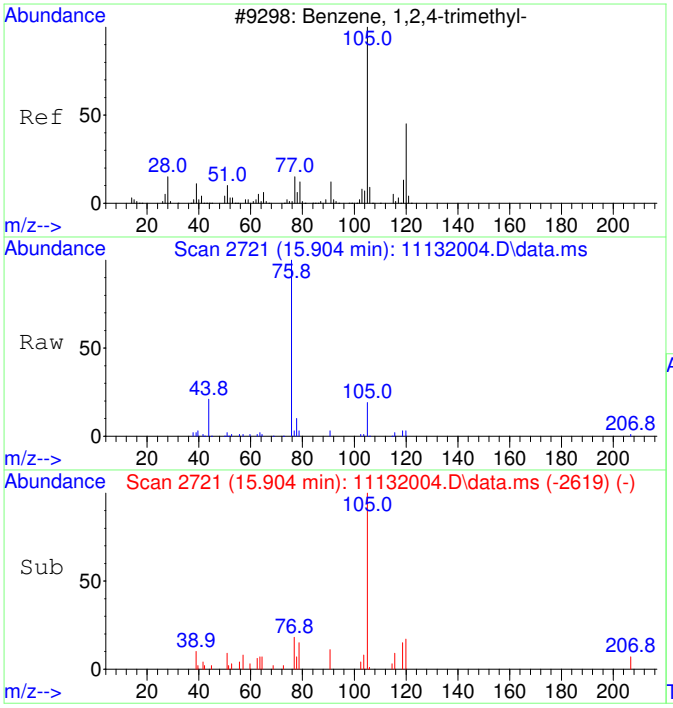


#46
1,3,5-Trimethylbenzene SCAN
Concen: 62.62 ug/L
RT: 15.343 min Scan# 2608
Delta R.T. -0.000 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 3622

Ion	Ratio	Lower	Upper
105	100		
120	39.8	18.3	78.3
119	17.0	0.0	43.1

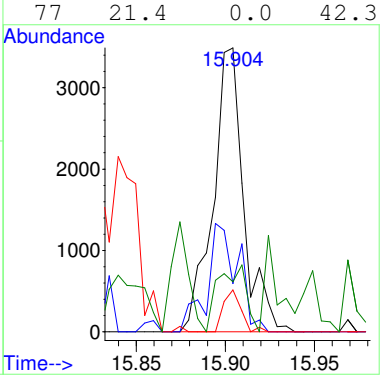


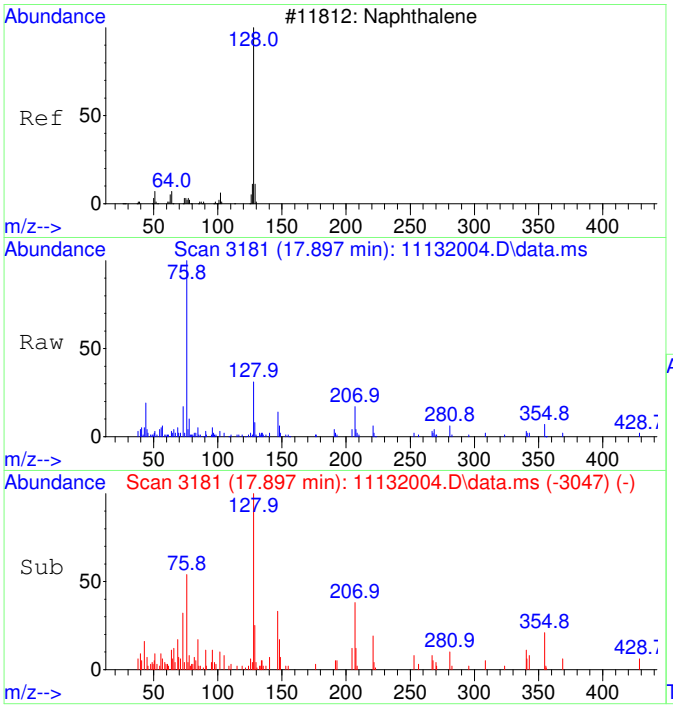


#47
1,2,4-Trimethylbenzene SCAN
Concen: 70.68 ug/L
RT: 15.904 min Scan# 2721
Delta R.T. 0.005 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:105 Resp: 4183

Ion	Ratio	Lower	Upper
105	100		
120	38.7	16.9	76.9
119	8.5	0.0	41.9
77	21.4	0.0	42.3

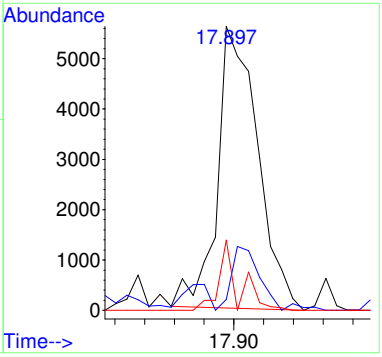




#48
Naphthalene SCAN
Concen: 58.86 ug/L
RT: 17.897 min Scan# 3181
Delta R.T. -0.004 min
Lab File: 11132004.D
Acq: 13 Nov 2020 11:56

Tgt Ion:128 Resp: 5271

Ion	Ratio	Lower	Upper
128	100		
127	16.4	0.0	44.0
129	12.0	0.0	40.8



SECOND SOURCE CALIBRATION CHECK

Radiello D1

Laboratory:	EPA Region 9 Laboratory	SDG:	20316A
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

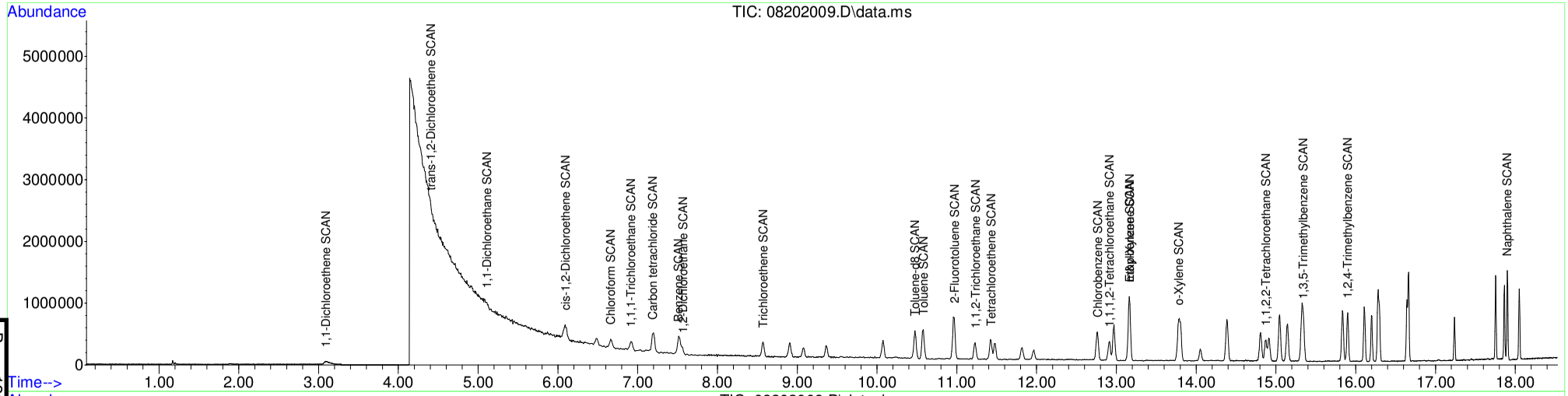
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.959	109	757040	5000.00 ug/L	-0.01
System Monitoring Compounds					
12) Toluene-d8	10.477	98	641391	4327.91 ug/L	0.00
Spiked Amount 5000.000	Range 86 - 118		Recovery = 86.56%		
Target Compounds					Qvalue
2] 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



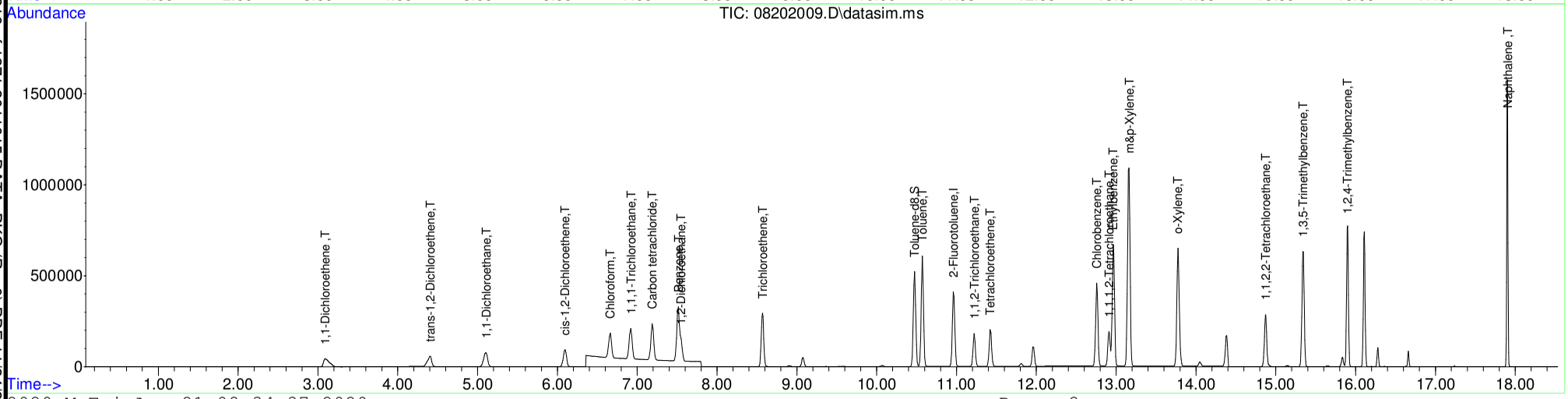


Table of Contents

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

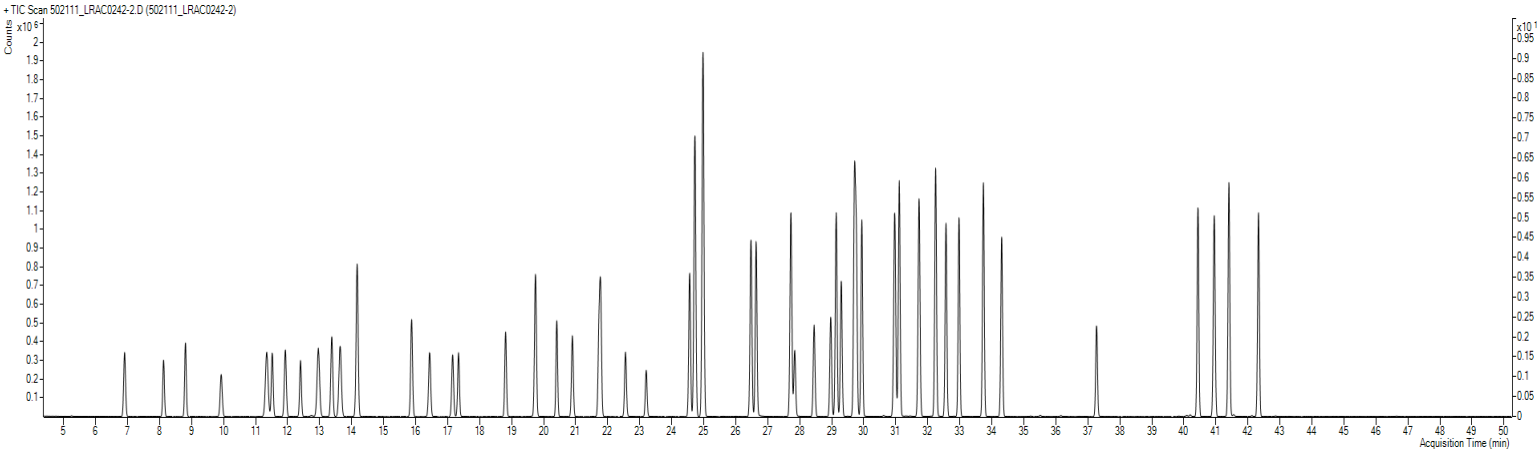
Certificate of Analysis

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
rtctechgroup@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

1937062

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 AU011278

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

1937062

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)

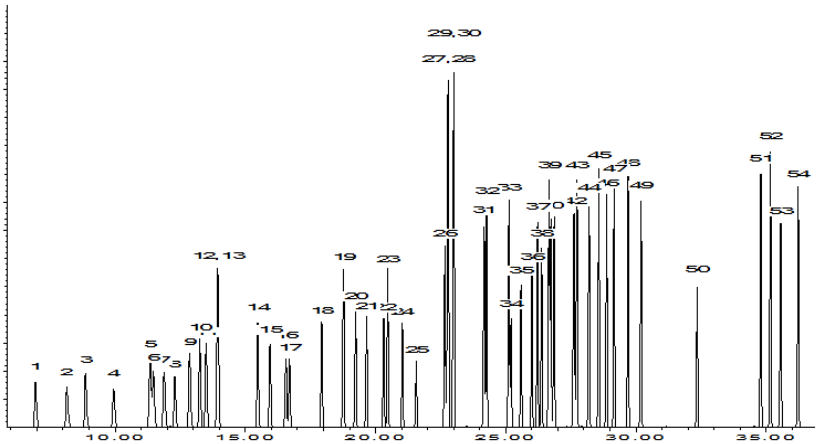
Carrier Gas:
helium-constant pressure 30 psi

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

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)

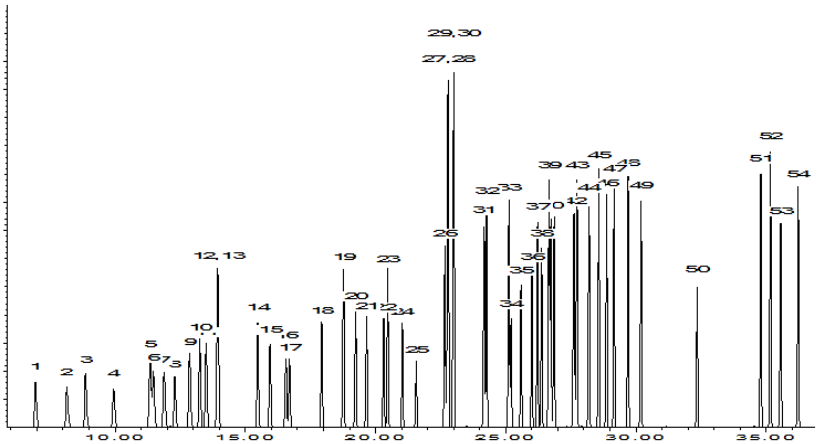
Carrier Gas:
helium-constant pressure 30 psi

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

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

2020011

Description:	Passive indoor air MRL Spike	**Expires:**	11/13/20
Standard Type:	Analyte Spike	**Prepared:**	05/13/20
Solvent:	CS2	**Prepared By:**	Tatyana Dadiomov
Final Volume (mls):	2	**Department:**	Volatiles
Vials:	1	**Last Edit:**	05/13/20 10:46 by TD
Vendor:	*Prepared*	**Lot Numbe**	1748145

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

2020011

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)
1937062	VOA 502.2 CAL 2000 MEGA MIX, St	09/10/19	** Vendor **	11/13/20	05/13/20 10:46 by TD	0.02

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)

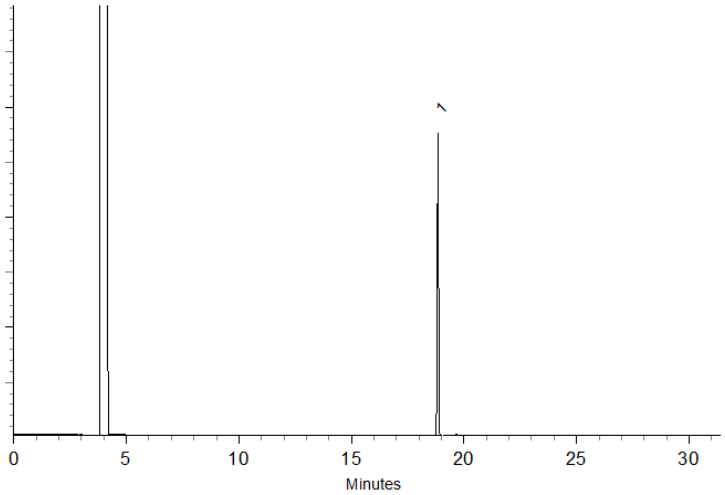
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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