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United States Environmental Protection Agency
Region 9 Laboratory

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

Date: **6/23/2017**

Subject: **Analytical Testing Results - Project R17S65**
SDG: 17158A

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 OU3 May 2017 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 Eugenia McNaughton 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**	**SDG:** 17158A
Project Number: R17S65	**75 Hawthorne Street**	**Reported:** 06/23/17 08:31
Project: MEW OU3 May 2017 Investigation	**San Francisco CA, 94105**	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
F5-054-5ft-7d	1706012-01	Radiello 130	06/06/17 15:02	06/07/17 14:45
F5-054-3ft-7d	1706012-02	Radiello 130	06/06/17 15:08	06/07/17 14:45
F5-058-5ft-7d	1706012-03	Radiello 130	06/06/17 14:57	06/07/17 14:45
F5-060-5ft-7d	1706012-04	Radiello 130	06/06/17 15:28	06/07/17 14:45
F5-062-5ft-7d	1706012-05	Radiello 130	06/06/17 15:24	06/07/17 14:45
F6-006-5ft-5d	1706012-06	Radiello 130	06/06/17 13:50	06/07/17 14:45
F6-002-5ft-5d	1706012-07	Radiello 130	06/06/17 13:35	06/07/17 14:45
F5-038-5ft-5d	1706012-08	Radiello 130	06/06/17 13:58	06/07/17 14:45

Work Order 1706012

One ambient collection temperature (68 degrees F) was provided on the chain of custody for each Radiello cartridge. This was assumed to be an average temperature during deployment and used in the result calculations.

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Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Alana Lee	**California Site Cleanup Section 3**	**SDG:** 17158A
Project Number: R17S65	**75 Hawthorne Street**	**Reported:** 06/23/17 08:31
Project: MEW OU3 May 2017 Investigation	**San Francisco CA, 94105**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1706012-01									**Radiello 130 - Sampled: 06/06/17 15:02**
Sample ID: F5-054-5ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.13	ug/m³ Air	B17F042	06/09/17	06/09/17	Radiello D1
trans-1,2-Dichloroethene		0.97		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		19		0.16	"	"	"	"	Radiello D1
Chloroform		3.2		0.13	"	"	"	"	Radiello D1
Benzene		2.2		0.38	"	"	"	"	Radiello D1
Trichloroethene		44		0.15	"	"	"	"	Radiello D1
Tetrachloroethene		19		0.17	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			104 %	*90-110%*		"	"	"	
Lab ID: 1706012-02									**Radiello 130 - Sampled: 06/06/17 15:08**
Sample ID: F5-054-3ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.13	ug/m³ Air	B17F042	06/09/17	06/09/17	Radiello D1
trans-1,2-Dichloroethene		0.65		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		13		0.16	"	"	"	"	Radiello D1
Chloroform		2.3		0.13	"	"	"	"	Radiello D1
Benzene		1.3		0.38	"	"	"	"	Radiello D1
Trichloroethene		28		0.15	"	"	"	"	Radiello D1
Tetrachloroethene		12		0.17	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			103 %	*90-110%*		"	"	"	
Lab ID: 1706012-03									**Radiello 130 - Sampled: 06/06/17 14:57**
Sample ID: F5-058-5ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		0.25		0.13	ug/m³ Air	B17F042	06/09/17	06/09/17	Radiello D1
trans-1,2-Dichloroethene		7.2		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene	RE1	120		1.6	"	"	"	06/12/17	Radiello D1
Chloroform		23		0.14	"	"	"	06/09/17	Radiello D1
Benzene		3.3		0.38	"	"	"	"	Radiello D1
Trichloroethene	RE1	300		1.5	"	"	"	06/12/17	Radiello D1
Tetrachloroethene	RE1	190		1.7	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			103 %	*90-110%*		"	"	*06/09/17*	
Lab ID: 1706012-04									**Radiello 130 - Sampled: 06/06/17 15:28**
Sample ID: F5-060-5ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.13	ug/m³ Air	B17F042	06/09/17	06/09/17	Radiello D1
trans-1,2-Dichloroethene		2.0		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		17		0.16	"	"	"	"	Radiello D1
Chloroform		15		0.14	"	"	"	"	Radiello D1
Benzene		5.7		0.38	"	"	"	"	Radiello D1
Trichloroethene	RE1	340		1.5	"	"	"	06/12/17	Radiello D1
Tetrachloroethene	RE1	280		1.7	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			102 %	*90-110%*		"	"	*06/09/17*	

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**	**SDG:** 17158A
Project Number: R17S65	**75 Hawthorne Street**	**Reported:** 06/23/17 08:31
Project: MEW OU3 May 2017 Investigation	**San Francisco CA, 94105**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1706012-05									**Radiello 130 - Sampled: 06/06/17 15:24**
Sample ID: F5-062-5ft-7d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		ND	U	0.13	ug/m³ Air	B17F042	06/09/17	06/09/17	Radiello D1
trans-1,2-Dichloroethene		2.6		0.16	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		32		0.16	"	"	"	"	Radiello D1
Chloroform		21		0.14	"	"	"	"	Radiello D1
Benzene		20		0.38	"	"	"	"	Radiello D1
Trichloroethene	RE1	240		1.5	"	"	"	06/12/17	Radiello D1
Tetrachloroethene	RE1	260		1.7	"	"	"	"	Radiello D1
Surrogate: Toluene-d8			96 %	*90-110%*		"	"	*06/09/17*	
Lab ID: 1706012-06									**Radiello 130 - Sampled: 06/06/17 13:50**
Sample ID: F6-006-5ft-5d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		5.1		0.19	ug/m³ Air	B17F042	06/09/17	06/09/17	Radiello D1
trans-1,2-Dichloroethene		9.1		0.23	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene	RE1	180		23	"	"	"	06/12/17	Radiello D1
Chloroform		55		0.19	"	"	"	06/09/17	Radiello D1
Benzene		ND	U	0.54	"	"	"	"	Radiello D1
Trichloroethene	RE1	1,200		21	"	"	"	06/12/17	Radiello D1
Tetrachloroethene		94		0.24	"	"	"	06/09/17	Radiello D1
Surrogate: Toluene-d8			103 %	*90-110%*		"	"	"	
Lab ID: 1706012-07									**Radiello 130 - Sampled: 06/06/17 13:35**
Sample ID: F6-002-5ft-5d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		4.4		0.19	ug/m³ Air	B17F042	06/09/17	06/09/17	Radiello D1
trans-1,2-Dichloroethene		5.0		0.23	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		64		0.23	"	"	"	"	Radiello D1
Chloroform	RE1	160		1.9	"	"	"	06/12/17	Radiello D1
Benzene		2.0		0.55	"	"	"	06/09/17	Radiello D1
Trichloroethene	RE1	420		2.1	"	"	"	06/12/17	Radiello D1
Tetrachloroethene		34		0.25	"	"	"	06/09/17	Radiello D1
Surrogate: Toluene-d8			104 %	*90-110%*		"	"	"	
Lab ID: 1706012-08									**Radiello 130 - Sampled: 06/06/17 13:58**
Sample ID: F5-038-5ft-5d									
					Volatile Organic Compounds Collected on Passive Air Sampling Devices				
1,1-Dichloroethene		6.0		0.19	ug/m³ Air	B17F042	06/09/17	06/09/17	Radiello D1
trans-1,2-Dichloroethene		5.8		0.23	"	"	"	"	Radiello D1
cis-1,2-Dichloroethene		72		0.23	"	"	"	"	Radiello D1
Chloroform		150		0.19	"	"	"	"	Radiello D1
Benzene		2.6		0.54	"	"	"	"	Radiello D1
Trichloroethene	RE1	370		2.1	"	"	"	06/12/17	Radiello D1
Tetrachloroethene		34		0.25	"	"	"	06/09/17	Radiello D1
Surrogate: Toluene-d8			105 %	*90-110%*		"	"	"	

United States Environmental Protection Agency
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Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	17158A
Project Number:	R17S65	**75 Hawthorne Street**		**Reported:**	06/23/17 08:31
Project:	MEW OU3 May 2017 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 B17F042 - Passive Air Sampler										
Blank (B17F042-BLK1)				Prepared & Analyzed: 06/09/17						
1,1-Dichloroethene	ND	0.13	ug/m³ Air							U
trans-1,2-Dichloroethene	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
Benzene	ND	0.37	ug/m³ Air							U
Trichloroethene	ND	0.14	ug/m³ Air							U
Tetrachloroethene	ND	0.17	ug/m³ Air							U
Surrogate: Toluene-d8	*1040*		ug/m³ Air	*992*		*105*	*90-110*			
LCS (B17F042-BS1)				Prepared & Analyzed: 06/09/17						
1,1-Dichloroethene	12.7	0.13	ug/m³ Air	13.1		97	49-125			
trans-1,2-Dichloroethene	15.0	0.16	ug/m³ Air	16.0		94	47-131			
cis-1,2-Dichloroethene	15.2	0.16	ug/m³ Air	16.0		95	58-127			
Chloroform	12.0	0.13	ug/m³ Air	13.2		91	61-128			
Benzene	10.0	0.37	ug/m³ Air	12.4		81	69-111			
Trichloroethene	12.0	0.14	ug/m³ Air	14.4		84	65-116			
Tetrachloroethene	13.1	0.17	ug/m³ Air	16.8		78	58-118			
Surrogate: Toluene-d8	*1030*		ug/m³ Air	*992*		*104*	*90-110*			
LCS Dup (B17F042-BSD1)				Prepared & Analyzed: 06/09/17						
1,1-Dichloroethene	14.5	0.13	ug/m³ Air	13.1		111	49-125	13	38	
trans-1,2-Dichloroethene	17.0	0.16	ug/m³ Air	16.0		106	47-131	12	14	
cis-1,2-Dichloroethene	17.1	0.16	ug/m³ Air	16.0		107	58-127	12	28	
Chloroform	13.4	0.13	ug/m³ Air	13.2		101	61-128	11	20	
Benzene	11.2	0.37	ug/m³ Air	12.4		90	69-111	11	20	
Trichloroethene	13.3	0.14	ug/m³ Air	14.4		93	65-116	10	22	
Tetrachloroethene	14.1	0.17	ug/m³ Air	16.8		84	58-118	8	24	
Surrogate: Toluene-d8	*1040*		ug/m³ Air	*992*		*104*	*90-110*			

United States Environmental Protection Agency
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Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	17158A
Project Number:	R17S65	**75 Hawthorne Street**		**Reported:**	06/23/17 08:31
Project:	MEW OU3 May 2017 Investigation	**San Francisco CA, 94105**			

Qualifiers and Comments

U	Not Detected
NR	Not Reported
RE1, RE2, etc:	Result is from a sample re-analysis.

United States Environmental Protection Agency
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Project Manager:	Alana Lee	**California Site Cleanup Section 3**		**SDG:**	17158A
Project Number:	R17S65	**75 Hawthorne Street**		**Reported:**	06/23/17 08:31
Project:	MEW OU3 May 2017 Investigation	**San Francisco CA, 94105**			

Sample Receiving:
Sample F5-058-5ft-7d has a unique ID of 027B on the COC but has a sample label ID of 027NB. Sample F5-062-5ft-7d has a unique ID of 028B on the COC but has a sample label ID of 028NB. Both samples were logged in per the sample label ID.
Only one temperature was given for all samples. Assumed the same temperature for both the start and ending temperatures.
-JDM 06/07/2017

WORK ORDER

Printed: 6/7/2017 3:51:53PM

1706012

EPA Region 9 Laboratory

Client: **California Site Cleanup Section 3**
Project: **MEW OU3 May 2017 Investigation**
Project Number: **R17S65**

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	Box	22	Yes	Yes	Yes	No	Yes	

Date Due:	07/08/17 17:00 (30 day TAT)	SDG:	17158A
Received By:	Jack Berges	Date Received:	06/07/17 14:45
Logged In By:	Junn Masongsong	Date Logged In:	06/07/17 15:27

Analysis	Hold Time Expires	Comments	
1706012-01 F5-054-5ft-7d [Radiello 130] Sampled 06/06/17 15:02 (GMT-08:00) Pacific Time (US &			**674MW**
VOCs, Passive Samplers	12/03/17	6 analytes, 14 day prelim	
1706012-02 F5-054-3ft-7d [Radiello 130] Sampled 06/06/17 15:08 (GMT-08:00) Pacific Time (US &			**675MW**
VOCs, Passive Samplers	12/03/17	6 analytes, 14 day prelim	
1706012-03 F5-058-5ft-7d [Radiello 130] Sampled 06/06/17 14:57 (GMT-08:00) Pacific Time (US &			**673MW**
VOCs, Passive Samplers	12/03/17	6 analytes, 14 day prelim	
1706012-04 F5-060-5ft-7d [Radiello 130] Sampled 06/06/17 15:28 (GMT-08:00) Pacific Time (US &			**027NB**
VOCs, Passive Samplers	12/03/17	6 analytes, 14 day prelim	
1706012-05 F5-062-5ft-7d [Radiello 130] Sampled 06/06/17 15:24 (GMT-08:00) Pacific Time (US &			**028NB**
VOCs, Passive Samplers	12/03/17	6 analytes, 14 day prelim	
1706012-06 F6-006-5ft-5d [Radiello 130] Sampled 06/06/17 13:50 (GMT-08:00) Pacific Time (US &			**671MW**
VOCs, Passive Samplers	12/03/17	6 analytes, 14 day prelim	

WORK ORDER

Printed: 6/7/2017 3:51:53PM

1706012

EPA Region 9 Laboratory

Client: **California Site Cleanup Section 3** **Project Number:** **R17S65**
Project: **MEW OU3 May 2017 Investigation**

Analysis	Hold Time Expires	Comments

Analysis	Expires	Comments

1706012-07 F6-002-5ft-5d [Radiello 130] Sampled 06/06/17 13:35 (GMT-08:00) 670MW
Pacific Time (US &

VOCs, Passive Samplers	12/03/17	6 analytes, 14 day prelim

1706012-08 F5-038-5ft-5d [Radiello 130] Sampled 06/06/17 13:58 (GMT-08:00) 672MW
Pacific Time (US &

VOCs, Passive Samplers	12/03/17	6 analytes, 14 day prelim

Reviewed By Date

U.S. Environmental Protection Agency

CHAIN OF CUSTODY RECORD

EPA REGION 9
75 Hawthorne Street
San Francisco, California 94105

Project / Case Number: MEW-09M6 R17565

Project Name: MEW 003 Sampling Investigation

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

Laboratory: EPA R9 Lab

Samplers: (Signature) Alana Lee

	Start Date /Time	End Date/Time	Matrix	Comp	Grab	EPA ID Number	Unique ID	Number of Containers	RAD130 - Solvent Extraction	Temperature °C	COMMENTS Previous TCE Screening (ug/m³)
1	5/30/17 1350	~~6/6/17~~ 1502		X		F5-054-5ft-7d	674MW	1	X	68	~50 - 800
2	5/30/17 1410	6/6/17 1508		X		F5-054-3ft-7d	675MW	1	X	68	~50 - 800
3	5/30/17 1535	6/6/17 ~~1528~~ 1457		X		F5-058-5ft-7d	673MW	1	X	68	~300 - 1000
4	5/30/17 ~~1410~~	6/6/17 1528		X		F5-060-5ft-7d	027B	1	X	68	~300 - 700
5	1550	6/6/17 1524		X		F5-062-5ft-7d	028B	1	X	68	~40 - 180
6	5/30/17 1600	6/6/17 1350		X		F6-006-5ft-5d	671MW	1	X	68	~800 - 1000
7	6/1/17 1601	6/6/17 1335		X		F6-002-5ft-5d	670MW	1	X	68	~50
8	6/1/17 1545	6/6/17 1358		X		F5-038-5ft-5d	672MW	1	X	68	~500

Alana Lee 6/6/17

Alana Lee 6/6/17

Alana Lee 6/6/17

Relinquished by: (Signature) Alana Lee Date/Time 6/7/17 1645

Received for Laboratory by: (Signature) Date/Time 6/7/17 14:45

Received by: (Signature) Date/Time

Relinquished by: (Signature) Date/Time

Temp | Seals Intact? (Y/N) | Conditions / Remarks

Table of Contents

Cooler/Box/Env 1 of 1

U.S. Environmental Protection Agency
Region 9 Richmond Laboratory

1337 South 46th Street
Richmond, CA 94804

Sample Receipt Checklist

Project No: R17565 **Work Order No(s):** 1706012 **Date:** 6/7/17 **by** JDM

CUSTODY SEALS Intact ☒ Yes ☐ No ☐ N/A- None
Check if applies: ☒ External Seals ☐ Internal Seals ☐ Hand Delivered

TEMPERATURE 22 **°C Within Acceptable Range** ☐ Yes ☐ No ☒ Ambient OK
Check if applies:
☐ Provided Temp Blank ☐ Between 6°C to 10°C ☐ Still cooling (sampled today & iced)
☐ Previously Frozen ☐ Insufficient/Melted Ice ☐ Delivery Delay

SAMPLE CONTAINERS Intact ☒ Yes ☐ No
If not intact, was volume recoverable for analysis? ☐ Yes ☐ No ☒ N/A
Check if applies: ☐ Bottle/Jar/Vial broken ☐ Cap broken or loose ☐ Other _____

CHAIN OF CUSTODY Received ☒ Yes ☐ No
COC complete and consistent with labels ☐ Yes ☒ No ☐ N/A
Check if applies: ☐ Not relinquished ☒ Inconsistency resolved ☐ Follow-up needed (see comments)
TAT and analyses match scheduling ☒ Yes ☐ No ☐ N/A
Check if applies: ☐ Preliminary Results ☐ Rush Request ☐ 7-day TAT
Within hold times ☐ Expires today ☒ Yes ☐ No ☐ N/A
All shipping and sample containers accounted for ☒ Yes ☐ No ☐ N/A

PRESERVATION / FILTRATION ☒ N/A No chem. pres./filtra.
Check if applies: ☐ Sample Receiving to preserve
☐ Analyst to filter and/or preserve
Preserved and/or filtered samples correctly identified ☐ Yes ☐ No ☒ N/A
Preserved samples (non-VOA vials) measured at correct pH ☐ Yes ☐ No ☒ N/A
Preservation/measured pH_____

Sample Receiving Preservation and/or pH Adjustments*

Sample ID	Initial pH	Pres.	Date/time Pres. added	Adjusted pH	pH after 16-hrs (metals)	Date/time of pH recheck	Rechecked by

*(continue on back, if needed)

FOLLOW-UP / COMMENTS SAMPLE F5-068-5ft-7d HAS A UNIQUE ID OF 027B ON THE COC BUT HAS A SAMPLE LABEL ID OF 027NB. SAMPLE F5-062-5ft-7d HAS A UNIQUE ID OF 028B ON THE COC BUT HAS A SAMPLE LABEL ID OF 028NB. BOTH SAMPLES LOGGED IN PER SAMPLE LABEL ID.

ONLY ONE TEMP. GIVEN - ASSUMED THE SAME TEMP. FOR START AND END TEMPS.

Exposure Time in Minutes

Sample numb	Retrieved	Deployed	Minutes	Start temp F	end temp F	Avg temp K
F5-054-5ft-7d	6/6/17 15:02	5/30/17 13:30	10172	68	68	293.15
F5-054-3ft-7d	6/6/17 15:08	5/30/17 14:10	10138	68	68	293.15
F5-058-5ft-7d	6/6/17 14:57	5/30/17 15:35	10042	68	68	293.15
F5-060-5ft-7d	6/6/17 15:28	5/30/17 15:50	10058	68	68	293.15
F5-062-5ft-7d	6/6/17 15:24	5/30/17 16:00	10044	68	68	293.15
F6-006-5ft-5d	6/6/17 13:50	6/1/17 15:25	7105	68	68	293.15
F6-002-5ft-5d	6/6/17 13:35	6/1/17 16:01	7054	68	68	293.15
F5-038-5ft-5d	6/6/17 13:58	6/1/17 15:45	7093	68	68	293.15

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BATCH

B17F042

PREPARATION BENCH SHEET

B17F042

EPA Region 9 Laboratory

Project: R17S65

Printed: 6/13/2017 4:02:02PM

Matrix: Radiello 13 **Analysis: VOCs, Passive Sampler** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 1717055**

Lab Number	SampleName	Prepared	Initial (Tube)	Final (mL)	Source ID	Spike ID 1	ul Spike 1	ul Surrogate	Prepared by	Extraction Comments
1706012-01 A	F5-054-5ft-7d	06/09/17 09:35	1	2				50	RH	6 analytes, 14 day prelim
1706012-02 A	F5-054-3ft-7d	06/09/17 09:35	1	2				50	RH	6 analytes, 14 day prelim
1706012-03 A	F5-058-5ft-7d	06/09/17 09:35	1	2				50	RH	6 analytes, 14 day prelim
1706012-03RE1 A	F5-058-5ft-7d	06/09/17 09:35	1	2				50	RH	Added 6/13/2017 by RH
1706012-04 A	F5-060-5ft-7d	06/09/17 09:35	1	2				50	RH	6 analytes, 14 day prelim
1706012-04RE1 A	F5-060-5ft-7d	06/09/17 09:35	1	2				50	RH	Added 6/13/2017 by RH
1706012-05 A	F5-062-5ft-7d	06/09/17 09:35	1	2				50	RH	6 analytes, 14 day prelim
1706012-05RE1 A	F5-062-5ft-7d	06/09/17 09:35	1	2				50	RH	Added 6/13/2017 by RH
1706012-06 A	F6-006-5ft-5d	06/09/17 09:35	1	2				50	RH	6 analytes, 14 day prelim
1706012-06RE1 A	F6-006-5ft-5d	06/09/17 09:35	1	2				50	RH	Added 6/13/2017 by RH
1706012-07 A	F6-002-5ft-5d	06/09/17 09:35	1	2				50	RH	6 analytes, 14 day prelim
1706012-07RE1 A	F6-002-5ft-5d	06/09/17 09:35	1	2				50	RH	Added 6/13/2017 by RH
1706012-08 A	F5-038-5ft-5d	06/09/17 09:35	1	2				50	RH	6 analytes, 14 day prelim
1706012-08RE1 A	F5-038-5ft-5d	06/09/17 09:35	1	2				50	RH	Added 6/13/2017 by RH
B17F042-BLK1	Blank	06/09/17 09:35	1	2				50	RH	
B17F042-BS1	LCS	06/09/17 09:35	1	2		1618022	5	50	RH	
B17F042-BSD1	LCS Dup	06/09/17 09:35	1	2		1618022	5	50	RH	

Batch Comments

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PREPARATION BENCH SHEET

B17F042

EPA Region 9 Laboratory

Project: R17S65

Printed: 6/13/2017 4:02:02PM

Matrix: Radiello 13 **Analysis: QC** **Prepared using: Volatiles - Passive Air Sampler** **Surrogate used: 1717055**

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

Reagents

Reagent #	Description
1702068	passive air Radiello tubes
1705140	Carbon disulfide
1717077	Carbon disulfide

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Calibration

1706007

Response Factor Report AG5975C

Method Path : C:\msdchem\1\Ravioli Methods\2017\
Method File : 060617_PASSIVE_SIM_SCAN.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Tue Jun 06 15:10:51 2017
Response Via : Initial Calibration

Calibration Files
25 =06061703.D 10 =06061704.D 5 =06061705.D 1 =06061706.D .15 =06061707.D .05 =06061708.D

		Compound	25	10	5	1	.15	.05	Avg	%RSD
1)	I	2-Fluorotoluene	----------ISTD----------							
2)	T	1,1-Dichloroet...	0.365	0.455	0.375	0.431	0.371	0.369	0.394	9.85
3)	T	trans-1,2-Dich...	0.387	0.471	0.406	0.458	0.414	0.428	0.427	7.49
4)	T	1,1-Dichloroet...	0.423	0.515	0.447	0.497	0.445	0.438	0.461	7.96
5)	T	cis-1,2-Dichlo...	0.404	0.485	0.429	0.475	0.428	0.421	0.440	7.28
6)	T	Chloroform	0.381	0.450	0.406	0.445	0.425	0.449	0.426	6.56
7)	T	1,1,1-Trichlor...	0.364	0.416	0.388	0.415	0.387	0.378	0.391	5.30
8)	T	Carbon tetrach...	0.321	0.357	0.337	0.356	0.329	0.324	0.338	4.67
9)	T	Benzene	0.866	0.982	0.940	1.033	1.141		0.992	10.39
10)	T	1,2-Dichloroet...	0.341	0.395	0.363	0.394	0.359	0.354	0.368	6.01
11)	T	Trichloroethene	0.237	0.261	0.254	0.271	0.259	0.250	0.255	4.48
12)	S	Toluene-d8	0.766	0.810	0.822	0.863	0.835	0.817	0.819	3.89
13)	T	Toluene	0.970	1.030	1.045	1.108	1.126	1.228	1.084	8.32
14)	T	1,1,2-Trichlor...	0.217	0.233	0.232	0.244	0.234	0.231	0.232	3.72
15)	T	Tetrachloroethene	0.263	0.273	0.280	0.294	0.283	0.274	0.278	3.76
16)	T	Chlorobenzene	0.653	0.675	0.695	0.732	0.701	0.677	0.689	3.96
17)	T	1,1,1,2-Tetrac...	0.224	0.226	0.230	0.235	0.225	0.216	0.226	2.77
18)	T	Ethylbenzene	1.133	1.143	1.183	1.237	1.178	1.128	1.167	3.53
19)	T	m&p-Xylene	0.886	0.900	0.938	0.975	0.918	0.876	0.915	4.00
)	T	o-Xylene	0.916	0.922	0.962	1.005	0.958	0.918	0.947	3.71
)	T	1,1,2,2-Tetrac...	0.395	0.397	0.411	0.425	0.403	0.384	0.403	3.52
)	T	1,3,5-Trimethy...	0.944	0.920	0.978	0.991	0.926	0.849	0.935	5.40
)	T	1,2,4-Trimethy...	0.972	0.948	1.003	1.009	0.949	0.870	0.958	5.26
)	T	Naphthalene	1.518	1.458	1.538	1.520	1.376	1.106	1.419	11.61
)		2-Fluorotoluen...			0.606				0.606	0.00
)		1,1-Dichloroet...			0.255				0.255	0.00
)		trans-1,2-Dich...			0.272				0.272	0.00
)		1,1-Dichloroet...			0.310				0.310	0.00
)		cis-1,2-Dichlo...			0.314				0.314	0.00
)		Chloroform SCAN			0.283				0.283	0.00
)		1,1,1-Trichlor...			0.233				0.233	0.00
)		Carbon tetrach...			0.215				0.215	0.00
)		Benzene SCAN			0.642				0.642	0.00
)		1,2-Dichloroet...			0.277				0.277	0.00
)		Trichloroethen...			0.149				0.149	0.00
)		Toluene-d8 SCAN			0.500				0.500	0.00
)		Toluene SCAN			0.667				0.667	0.00
)		1,1,2-Trichlor...			0.150				0.150	0.00
)		Tetrachloroeth...			0.137				0.137	0.00
)		Chlorobenzene ...			0.410				0.410	0.00
)		1,1,1,2-Tetrac...			0.128				0.128	0.00
)		Ethylbenzene SCAN			0.747				0.747	0.00

All results reported from SIM (compounds #1-24). SCAN (compounds #25-48) is for qualitative purposes only. RH 6/6/17

Page 18 of 810 1706012 DATA_PKG (Rev0).PDF 06/23/17 08:39:42

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Response Factor Report AG5975C

Method Path : C:\msdchem\1\Ravioli Methods\2017\
Method File : 060617_PASSIVE_SIM_SCAN.M

43)	m&p-Xylene SCAN	1.167	1.167	0.00
44)	o-Xylene SCAN	0.601	0.601	0.00
45)	1,1,2,2-Tetrac...	0.272	0.272	0.00
46)	1,3,5-Trimethy...	0.570	0.570	0.00
47)	1,2,4-Trimethy...	0.594	0.594	0.00
48)	Naphthalene SCAN	0.819	0.819	0.00

(#) = Out of Range

Method Path : C:\msdchem\1\Ravioli Methods\2017\
Method File : 060617_PASSIVE_SIM_SCAN.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Tue Jun 06 15:10:51 2017
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	10.480	1.000	A	1	A	B
2	T	1,1-Dichloroethene	-61	2.711	0.259	A	1	A	B
3	T	trans-1,2-Dichloroethene	-61	3.869	0.369	A	1	A	B
4	T	1,1-Dichloroethane	-63	4.553	0.434	A	1	A	B
5	T	cis-1,2-Dichloroethene	-61	5.568	0.531	A	1	A	B
6	T	Chloroform	-83	6.152	0.587	A	1	A	B
7	T	1,1,1-Trichloroethane	-97	6.383	0.609	A	2	A	B
8	T	Carbon tetrachloride	-117	6.638	0.633	A	1	A	B
9	T	Benzene	-78	6.991	0.667	A	1	A	B
10	T	1,2-Dichloroethane	-62	7.064	0.674	A	1	A	B
11	T	Trichloroethene	-130	8.063	0.769	A	3	A	B
12	S	Toluene-d8	-98	9.987	0.953	A	1	A	B
13	T	Toluene	-91	10.092	0.963	A	1	A	B
14	T	1,1,2-Trichloroethane	-97	10.774	1.028	A	1	A	B
15	T	Tetrachloroethene	-166	10.921	1.042	A	1	A	B
16	T	Chlorobenzene	-112	12.274	1.171	A	1	A	B
17	T	1,1,1,2-Tetrachloroethane	-131	12.433	1.186	A	1	A	B
18	T	Ethylbenzene	-91	12.480	1.191	A	2	A	B
19	T	m&p-Xylene	-91	12.679	1.210	A	2	A	B
20	T	o-Xylene	-91	13.291	1.268	A	1	A	B
21	T	1,1,2,2-Tetrachloroethane	-83	14.429	1.377	A	1	A	B
22	T	1,3,5-Trimethylbenzene	-105	14.853	1.417	A	1	A	B
23	T	1,2,4-Trimethylbenzene	-105	15.439	1.473	A	1	A	B
24	T	Naphthalene	-128	17.661	1.685	A	1	A	B
25		2-Fluorotoluene SCAN	109	10.490	1.001	A	1	A	B
26		1,1-Dichloroethene SCAN	61	2.713	0.259	A	2	A	B
27		trans-1,2-Dichloroethene SCAN	61	3.868	0.369	A	2	A	B
28		1,1-Dichloroethane SCAN	63	4.551	0.434	A	2	A	B
29		cis-1,2-Dichloroethene SCAN	61	5.566	0.531	A	3	A	B
30		Chloroform SCAN	83	6.150	0.587	A	2	A	B
31		1,1,1-Trichloroethane SCAN	97	6.381	0.609	A	2	A	B
32		Carbon tetrachloride SCAN	117	6.637	0.633	A	3	A	B
33		Benzene SCAN	78	7.002	0.668	A	3	A	B
34		1,2-Dichloroethane SCAN	62	7.063	0.674	A	2	A	B
35		Trichloroethene SCAN	130	8.062	0.769	A	3	A	B
36		Toluene-d8 SCAN	98	9.996	0.954	A	1	A	B
37		Toluene SCAN	91	10.091	0.963	A	2	A	B
38		1,1,2-Trichloroethane SCAN	97	10.783	1.029	A	3	A	B
39		Tetrachloroethene SCAN	166	10.920	1.042	A	3	A	B
40		Chlorobenzene SCAN	112	12.281	1.172	A	3	A	B
41		1,1,1,2-Tetrachloroethane SCAN	131	12.439	1.187	A	3	A	B
42		Ethylbenzene SCAN	91	12.487	1.192	A	2	A	B
43		m&p-Xylene SCAN	91	12.678	1.210	A	3	A	B
44		o-Xylene SCAN	91	13.297	1.269	A	2	A	B
45		1,1,2,2-Tetrachloroethane SCAN	83	14.428	1.377	A	2	A	B
46		1,3,5-Trimethylbenzene SCAN	105	14.857	1.418	A	2	A	B
47		1,2,4-Trimethylbenzene SCAN	105	15.443	1.474	A	3	A	B
48		Naphthalene SCAN	128	17.660	1.685	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

060617_PASSIVE_SIM_SCAN.M Tue Jun 06 16:24:21 2017

CHEMSTATION CONCENTRATION REPORT

AG5975C
S17F020SCV1
1717064 5 mg/L
6/6/2017
Tue Jun 06 15:10:51 2017
RH

#	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

CHEMSTATION AREA COUNT REPORT

AG5975C
S17F020SCV1
1717064 5 mg/L
6/6/2017
Tue Jun 06 15:10:51 2017
RH

#	Name	L1	L2	L3	L4	L5	L6
1)	2-Fluorotoluene	744490	634075	753112	682142	849562	837314
2)	1,1-Dichloroethene	1357690	577380	282652	58844	9444	3088
3)	trans-1,2-Dichloroethene	1441083	597454	305598	62523	10564	3580
4)	1,1-Dichloroethane	1573119	653484	336338	67796	11332	3668
5)	cis-1,2-Dichloroethene	1504492	614963	322806	64797	10912	3528
6)	Chloroform	1418074	570936	305780	60736	10842	3759
7)	1,1,1-Trichloroethane	1355427	527807	292158	56670	9854	3164
8)	Carbon tetrachloride	1195709	452884	254113	48604	8397	2714
9)	Benzene	3222489	1244842	708174	140991	29070	12265
10)	1,2-Dichloroethane	1268705	500479	273396	53804	9144	2966
11)	Trichloroethene	880934	331428	191179	36904	6593	2095
12)	Toluene-d8	2852539	1026913	618742	117739	21282	6844
13)	Toluene	3609682	1305976	786682	151097	28707	10284
14)	1,1,2-Trichloroethane	807946	295396	174420	33273	5976	1937
15)	Tetrachloroethene	979389	346677	210806	40119	7214	2295
16)	Chlorobenzene	2429058	855639	523280	99882	17878	5669
17)	1,1,1,2-Tetrachloroethane	832828	286901	173326	32031	5745	1810
18)	Ethylbenzene	4217695	1449717	890919	168760	30016	9446
19)	m&p-Xylene	6595653	2283200	1412472	266009	46809	14667
20)	o-Xylene	3410732	1169268	724395	137163	24405	7684
21)	1,1,2,2-Tetrachloroethane	1470275	504054	309719	57976	10279	3216
22)	1,3,5-Trimethylbenzene	3512544	1167311	736788	135222	23610	7110
23)	1,2,4-Trimethylbenzene	3617132	1202406	755062	137611	24195	7283
24)	Naphthalene	5650277	1849249	1158599	207347	35064	9258

SEQUENCE

S17F020

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	ICAL	SEQUENCE #:	S17F020
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.	Tue Jun 06 15:10:51 2017			
	Initial Calibration ID (LIMS number):	1706007			
	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 #:	S17F020
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:	RH 6/6/17
	REVIEWED BY:	Ziyad Rajabi (affiliate) Digitally signed by Ziyad Rajabi (affiliate) Date: 2017.06.08 12:53:18 -07'00' SIGN HERE

COMMENTS

Injection Log

Operator: RH
Directory: C:\msdchem\1\Ravioli Data\2017\060617\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	06061701.D	1	S17F020-IBL1		6 Jun 2017 11:34
2	06061702.D	1	S17F020-TUN1	BFB 1652069	6 Jun 2017 11:55
3	06061703.D	1	S17F020-CAL1	1717057 25 mg/L	6 Jun 2017 12:03
4	06061704.D	1	S17F020-CAL2	1717058 10mg/L	6 Jun 2017 12:27
5	06061705.D	1	S17F020-CAL3	1717059 5 mg/L	6 Jun 2017 12:51
6	06061706.D	1	S17F020-CAL4	1717060 1 mg/L	6 Jun 2017 13:15
7	06061707.D	1	S17F020-CAL5	1717061 0.15 mg/L	6 Jun 2017 13:39
8	06061708.D	1	S17F020-CAL6	1717062 0.05 mg/L	6 Jun 2017 14:03
9	06061709.D	1	S17F020SCV1	1717064 5 mg/L	6 Jun 2017 14:26

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\Ravioli Data\2017\060617\06061702.D
Tune Time : 6 Jun 2017 11:55

Daily Calibration File : C:\msdchem\1\Ravioli Data\2017\060617\06061705.D

753112

File	Sample	Surrogate Recovery %	Internal Standard Responses
06061703.D			
	S17F020-CA	468*	744490
06061704.D			
	S17F020-CA	198*	634075
06061705.D			
	S17F020-CA	100	753112
06061706.D			
	S17F020-CA	21*	682142
06061707.D			
	S17F020-CA	3*	849562
06061708.D			
	S17F020-CA	1*	837314
06061709.D			
	S17F020SCV	100	706482

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

Created: Tue Jun 06 16:25:53 2017 AG5975C

Analysis Sequence

S17F020

Project:
Analysis:

Instrument: AG5975CV **Calibration ID:** 1706007 Printed: 06/07/2017 9:43 am

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S17F020-IBL1	Instrument Blank	1	6/6/17 11:34		1717055	RH	06061701.D	
S17F020-TUN1	BFB	2	6/6/17 11:55	1652069		RH	06061702.D	
S17F020-CAL1	1639122	3	6/6/17 12:03	1717057		RH	06061703.D	
S17F020-CAL2	1639123	4	6/6/17 12:27	1717058		RH	06061704.D	
S17F020-CAL3	1639124	5	6/6/17 12:51	1717059		RH	06061705.D	
S17F020-CAL4	1639125	6	6/6/17 13:15	1717060		RH	06061706.D	
S17F020-CAL5	1639126	7	6/6/17 13:39	1717061		RH	06061707.D	
S17F020-CAL6	1639127	8	6/6/17 14:03	1717062		RH	06061708.D	
S17F020-SCV1	1639128	9	6/6/17 14:26	1717064		RH	06061709.D	

Sequence Comments

Reagents

Reagent #	Description

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SEQUENCE DATA

S17F020

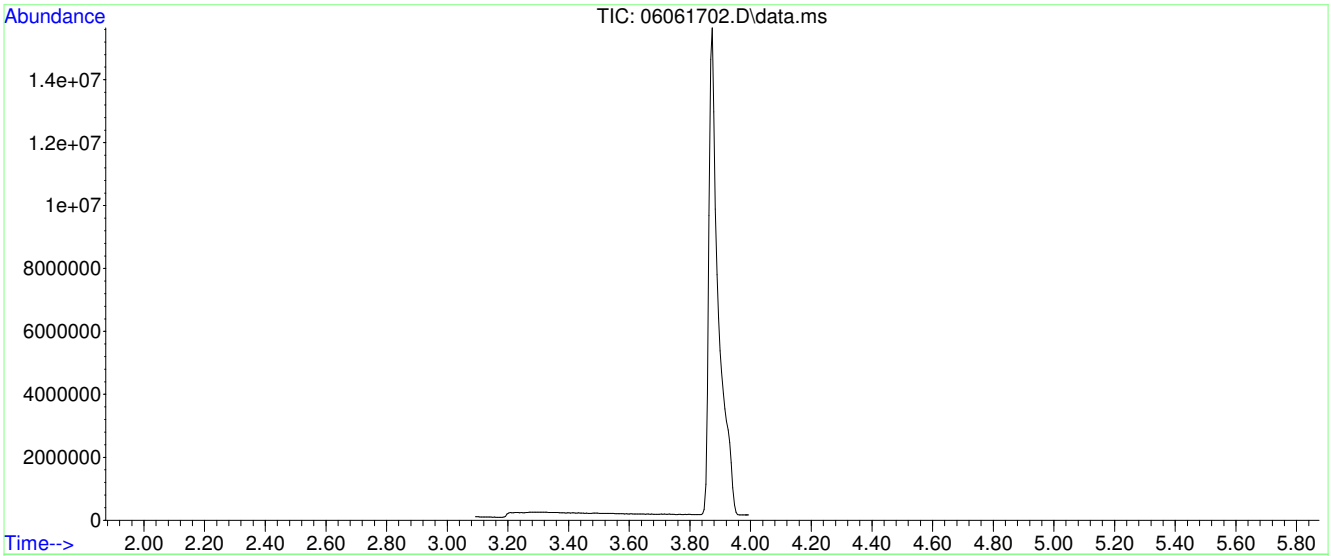
S17F020-TUN1

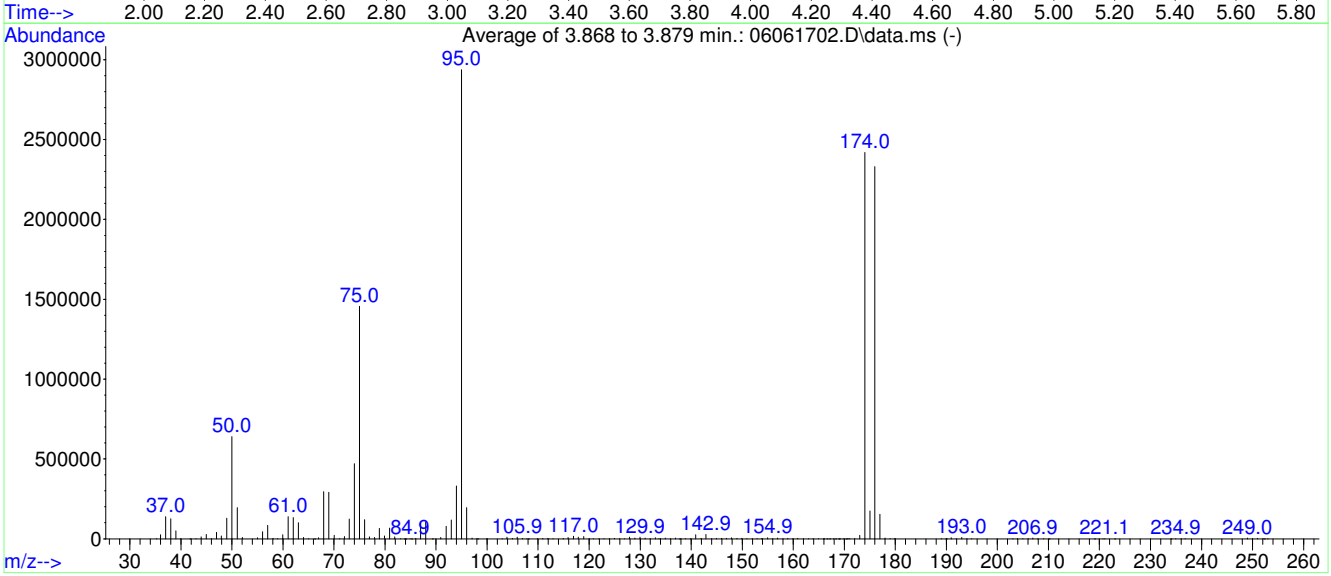
Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061702.D
Acq On : 6 Jun 2017 11:55
Operator : RH
Sample : S17F020-TUN1
Misc : BFB 1652069
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: Benzene.P

Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Tue Jun 06 15:10:51 2017





AutoFind: Scans 149, 150, 151; Background Corrected with Scan 143

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8	639831	PASS
75	95	30	60	49.6	1456625	PASS
95	95	100	100	100.0	2936994	PASS
96	95	5	9	6.6	194695	PASS
173	174	0.00	2	0.9	22056	PASS
174	95	50	120	82.4	2419200	PASS
175	174	5	9	7.2	175296	PASS
176	174	95	101	96.3	2330105	PASS
177	176	5	9	6.6	154503	PASS

Average of 3.868 to 3.879 min.: 06061702.D\data.ms
S17F020-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.25	167	47.00	41133	59.95	24905	71.10	1023
36.00	25055	47.95	17231	61.00	137989	72.05	13382
37.00	138873	49.00	129955	62.00	133639	73.00	123023
38.00	125786	50.00	639831	63.00	100774	74.00	471235
39.00	49771	51.05	194624	64.00	8501	75.00	1.45663e+006
39.95	1240	52.05	8248	65.05	525	76.00	120069
41.80	64	55.00	6831	66.20	86	76.95	12818
42.95	926	56.00	43811	67.00	7115	77.95	8587
44.00	13101	57.00	84343	68.00	294418	78.90	66022
45.00	28209	58.05	3383	69.00	290709	79.90	18933
46.00	1706	58.95	1027	70.05	21133	80.90	67389

Average of 3.868 to 3.879 min.: 06061702.D\data.ms
S17F020-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.90	13111	92.00	78168	104.95	3405	115.90	8695
83.05	1745	93.00	118901	105.90	10995	116.95	16642
83.80	59	94.00	331115	106.95	2583	117.90	10210
84.10	82	95.00	2.93699e+006	107.80	140	118.95	14677
84.90	132	96.00	194695	108.10	62	120.00	571
85.20	79	97.05	5476	109.85	1772	120.85	157
86.00	2677	98.00	196	110.90	2405	121.95	497
86.95	105055	98.20	110	111.85	1257	122.90	665
88.00	104168	99.90	58	112.10	275	123.95	1603
89.30	69	102.95	1949	112.95	2005	124.95	2182
90.95	8631	103.90	11012	114.95	3002	125.95	1314

Average of 3.868 to 3.879 min.: 06061702.D\data.ms
S17F020-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
126.90	779	136.90	4624	146.90	2482	156.95	4661
127.90	10296	137.70	57	147.90	6584	158.00	457
128.95	4575	138.00	187	148.95	2293	158.95	2856
129.95	10300	138.85	919	149.90	2850	159.95	229
130.95	4109	139.90	1683	150.90	246	160.90	3607
132.00	540	140.90	26352	151.95	1248	162.00	298
133.00	6034	141.95	2949	152.90	1884	163.00	1419
133.70	426	142.90	28168	153.80	554	163.90	306
134.00	1958	144.00	1356	153.95	839	164.95	932
134.90	5458	144.95	2491	154.95	6408	165.90	79
135.90	790	145.95	3671	155.95	594	166.05	146

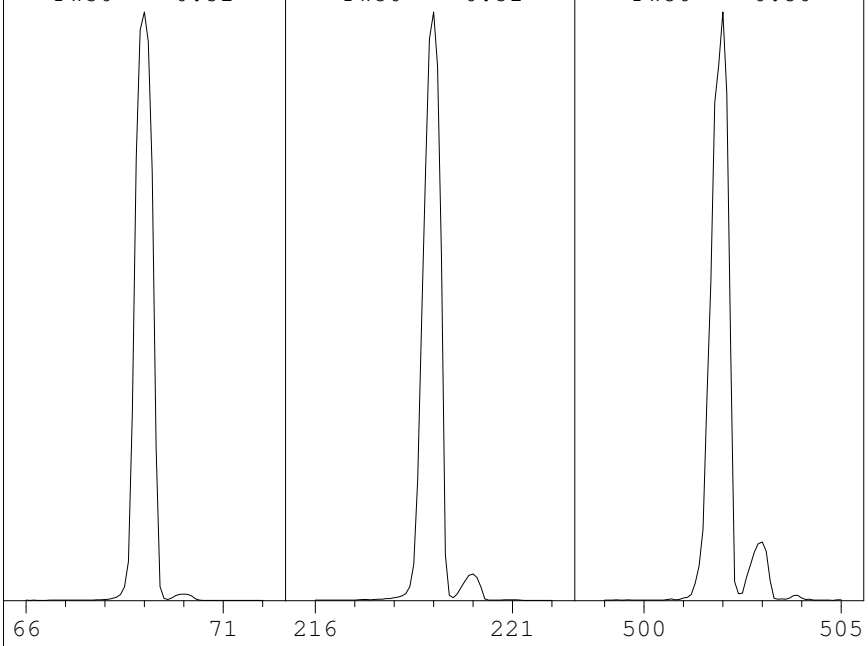
Average of 3.868 to 3.879 min.: 06061702.D\data.ms
S17F020-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
166.60	54	172.00	737	189.90	59	206.95	4787
167.10	70	173.00	22056	190.15	262	207.95	1218
167.90	137	174.00	2.4192e+006	190.95	6342	209.05	576
168.30	68	175.00	175296	191.95	1405	210.10	53
168.90	96	175.95	2.33011e+006	193.00	7939	219.00	69
169.10	52	176.95	154503	194.00	1678	220.70	165
169.80	281	177.95	4941	194.95	899	221.05	200
170.30	120	179.00	1962	203.05	850	223.00	75
170.60	142	179.80	158	203.90	222	234.00	52
170.90	263	180.00	141	205.00	1802	234.95	974
171.10	313	189.00	728	206.05	481	236.00	209

Average of 3.868 to 3.879 min.: 06061702.D\data.ms
S17F020-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
236.80	181						
249.00	5299						
250.00	1388						
251.00	2371						
252.05	666						
252.30	71						
253.00	392						

Mass	Ab	Pw50
69.00	563717	0.51
219.00	343110	0.51
502.00	13703	0.50

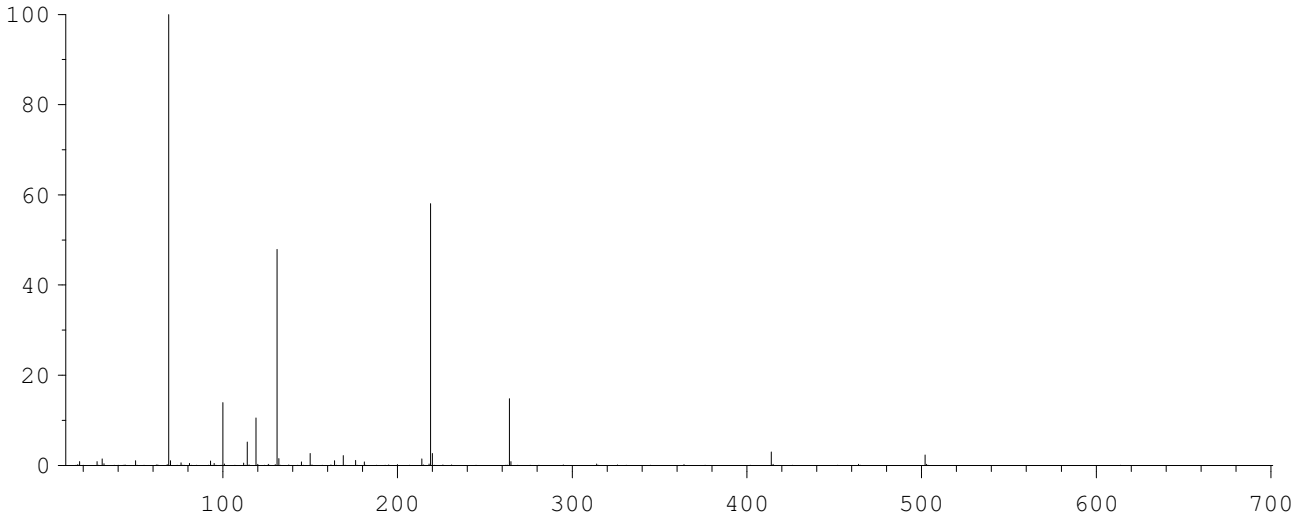


Ion Pol	Pos	MassGain	-1194
		MassOffs	-39
Emission	34.6	AmuGain	989
EIEnrgy	69.9	AmuOffs	128.31
Filament	1	Wid219	0.001
		DC Pol	Pos
Repeller	28.28		
IonFcus	79.7	HEDEnab	On
EntLens	0.0	EMVolts	2118
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	250	Turbo Speed	100
MS Quad	200	HiVac	0.00e00

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10
106 peaks Base: 69.00 Abundance: 532608



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	532608	100.00	70.00	5721	1.07
219.00	309056	58.03	220.00	13916	4.50
502.00	12353	2.32	503.00	1415	11.45

Air/Water Check: H20~0.86% N2~0.86% O2~0.38% CO2~0.13% N2/H2O~99.69%

Column(1) Flow: 0.97 Column(2): -1.79769e+308 ml/min. Interface Temp: 300

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 99444
Repeller Maximum 30 volts using ion 219; Gain Factor 0.99

MassGain Values(Samples): -1184(3) -1179(2) -1165(1) -1130(0) -1069(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	128.3	128.3	128.3	128.3	128.3	128.3	128.3
Entrance Lens Offset:	15.3	13.3	13.1	13.8	16.6	18.3	18.3
Target Abund(%):	1.0	100.0	45.0	55.0	2.5	2.0	
Actual Tune Abund(%):	1.0	100.0	47.9	58.0	3.0	2.3	

S17F020-CAL1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061703.D
Acq On : 6 Jun 2017 12:03
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL1
Misc : 1717057 25 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 15:07:35 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration

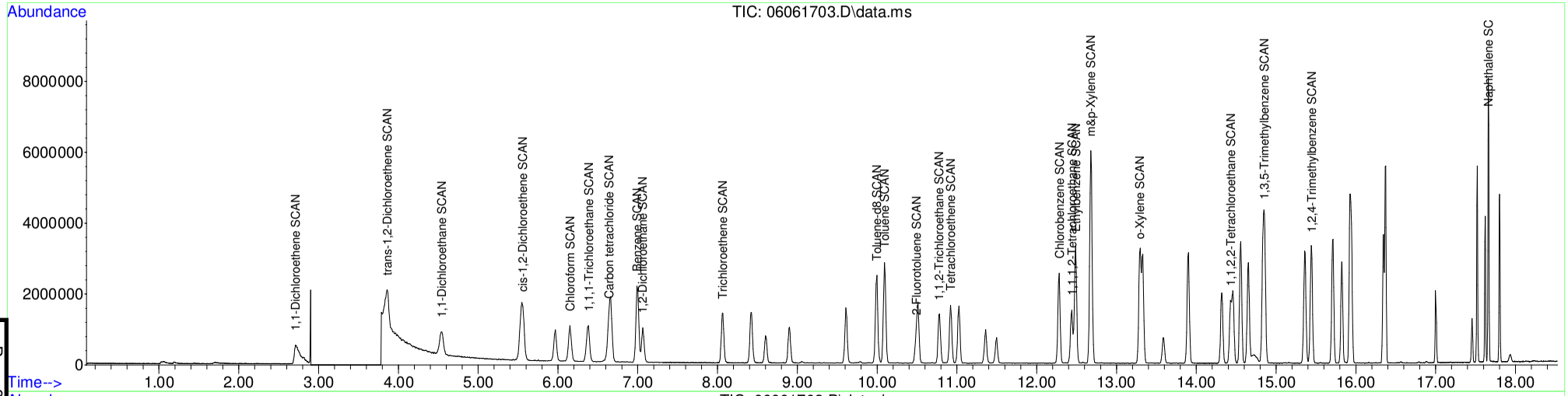
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.480	109	744490	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	2852539	23396.00 ug/L	0.00
Spiked Amount 5000.000 Range 70 - 130 Recovery = 467.92%#					
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.715	61	1357690	22452.16 ug/L	100
3] trans-1,2-Dichloroethene	3.856	61	1441083	22644.95 ug/L	100
4] 1,1-Dichloroethane	4.539	63	1573119	22933.25 ug/L	100
5] cis-1,2-Dichloroethene	5.561	61	1504492	22945.20 ug/L	100
6] Chloroform	6.140	83	1418074	22350.18 ug/L	99
7] 1,1,1-Trichloroethane	6.371	97	1355427	23260.19 ug/L	100
8] Carbon tetrachloride	6.638	117	1195709	23786.58 ug/L	100
9] Benzene	6.991	78	3222489	21809.44 ug/L	100
10] 1,2-Dichloroethane	7.052	62	1268705	23176.18 ug/L	100
11] Trichloroethene	8.063	130	880934	23182.59 ug/L	100
13] Toluene	10.082	91	3609682	22356.56 ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	807946	23400.85 ug/L	100
15] Tetrachloroethene	10.921	166	979389	23666.14 ug/L	100
16] Chlorobenzene	12.274	112	2429058	23684.58 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.433	131	832828	24740.38 ug/L	100
18] Ethylbenzene	12.480	91	4217695	24272.47 ug/L	100
19] m&p-Xylene	12.679	91	6595653	48385.59 ug/L	100
20] o-Xylene	13.291	91	3410732	24193.65 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	1470275	24521.99 ug/L	100
22] 1,3,5-Trimethylbenzene	14.854	105	3512544	25234.38 ug/L	100
23] 1,2,4-Trimethylbenzene	15.440	105	3617132	25347.83 ug/L	100
24] Naphthalene	17.662	128	5650277	26736.62 ug/L	100
25) 2-Fluorotoluene SCAN	10.490	109	428321	4745.19 ug/L	93
26) 1,1-Dichloroethene SCAN	2.710	61	961883	25327.00 ug/L	89
27) trans-1,2-Dichloroethe...	3.861	61	979762	24173.27 ug/L	97
28) 1,1-Dichloroethane SCAN	4.538	63	1093600	23665.85 ug/L	98
29) cis-1,2-Dichloroethene...	5.560	61	1040414	22252.12 ug/L	97
30) Chloroform SCAN	6.150	83	936969	22223.32 ug/L	97
31) 1,1,1-Trichloroethane ...	6.381	97	869086	25048.03 ug/L	97
32) Carbon tetrachloride SCAN	6.637	117	715818	22410.57 ug/L	98
33) Benzene SCAN	6.990	78	2156687	22569.70 ug/L	99
34) 1,2-Dichloroethane SCAN	7.063	62	960968	23306.87 ug/L	91
35) Trichloroethene SCAN	8.066	130	493396	22296.63 ug/L	96
36) Toluene-d8 SCAN	9.996	98	1785536	23968.20 ug/L	97
37) Toluene SCAN	10.091	91	2295595	23103.84 ug/L	100
38) 1,1,2-Trichloroethane ...	10.773	97	509826	22782.83 ug/L	98
39) Tetrachloroethene SCAN	10.920	166	494696	24285.88 ug/L	94
40) Chlorobenzene SCAN	12.281	112	1398944	22921.19 ug/L	98
41) 1,1,1,2-Tetrachloroeth...	12.439	131	484046	25482.52 ug/L	97
42) Ethylbenzene SCAN	12.487	91	2656711	23879.61 ug/L	99
43) m&p-Xylene SCAN	12.678	91	4176174	24041.80 ug/L	98
44) o-Xylene SCAN	13.289	91	2125188	23758.84 ug/L	98
45) 1,1,2,2-Tetrachloroeth...	14.427	83	967487	23910.65 ug/L	99
46) 1,3,5-Trimethylbenzene...	14.853	105	2115854	24937.29 ug/L	97
47) 1,2,4-Trimethylbenzene...	15.444	105	2177491	24627.06 ug/L	99
48) Naphthalene SCAN	17.661	128	3088005	25322.98 ug/L	100

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061703.D
Acq On : 6 Jun 2017 12:03
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL1
Misc : 1717057 25 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 15:07:35 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration



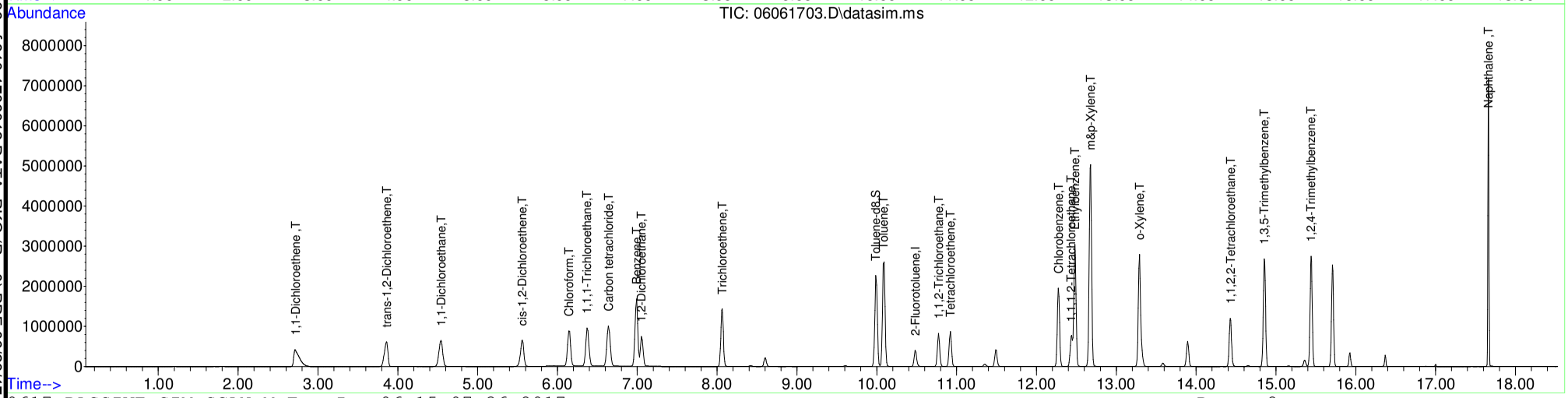


Table of Contents

S17F020-CAL2

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061704.D
Acq On : 6 Jun 2017 12:27
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL2
Misc : 1717058 10mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 15:07:43 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration

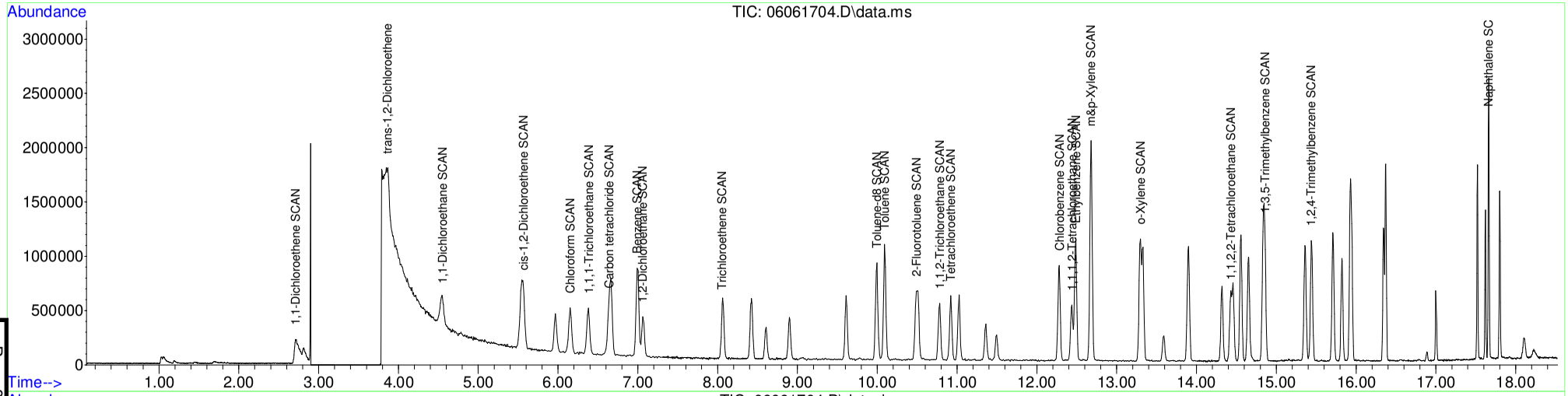
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.481	109	634075	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	1026913	9889.22 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 197.78%#		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.711	61	577380	11210.82 ug/L	100
3] trans-1,2-Dichloroethene	3.863	61	597454	11023.13 ug/L	100
4] 1,1-Dichloroethane	4.546	63	653484	11185.55 ug/L	100
5] cis-1,2-Dichloroethene	5.561	61	614963	11012.08 ug/L	100
6] Chloroform	6.152	83	570936	10565.45 ug/L	99
7] 1,1,1-Trichloroethane	6.371	97	527807	10634.83 ug/L	100
8] Carbon tetrachloride	6.638	117	452884	10578.20 ug/L	100
9] Benzene	6.991	78	1244842	9892.03 ug/L	100
10] 1,2-Dichloroethane	7.052	62	500479	10734.59 ug/L	100
11] Trichloroethene	8.063	130	331428	10240.61 ug/L	100
13] Toluene	10.082	91	1305976	9497.06 ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	295396	10045.51 ug/L	100
15] Tetrachloroethene	10.921	166	346677	9835.93 ug/L	100
16] Chlorobenzene	12.274	112	855639	9795.73 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.433	131	286901	10006.94 ug/L	100
18] Ethylbenzene	12.481	91	1449717	9795.81 ug/L	100
19] m&p-Xylene	12.671	91	2283200	19666.20 ug/L	100
20] o-Xylene	13.291	91	1169268	9738.37 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	504054	9870.80 ug/L	100
22] 1,3,5-Trimethylbenzene	14.855	105	1167311	9846.36 ug/L	100
23] 1,2,4-Trimethylbenzene	15.440	105	1202406	9893.40 ug/L	100
24] Naphthalene	17.662	128	1849249	10274.26 ug/L	100
25) 2-Fluorotoluene SCAN	10.490	109	389802	5070.45 ug/L	100
26) 1,1-Dichloroethene SCAN	2.710	61	411014	12706.80 ug/L	90
27) trans-1,2-Dichloroethe...	3.861	61	414109	11996.31 ug/L	96
28) 1,1-Dichloroethane SCAN	4.551	63	464165	11793.81 ug/L	97
29) cis-1,2-Dichloroethene...	5.567	61	429048	10774.31 ug/L	98
30) Chloroform SCAN	6.150	83	377673	10517.63 ug/L	95
31) 1,1,1-Trichloroethane ...	6.382	97	335783	11362.87 ug/L	96
32) Carbon tetrachloride SCAN	6.637	117	285181	10483.09 ug/L	97
33) Benzene SCAN	6.990	78	831677	10219.07 ug/L	99
34) 1,2-Dichloroethane SCAN	7.063	62	364711	10385.85 ug/L	94
35) Trichloroethene SCAN	8.057	130	188479	10000.57 ug/L	97
36) Toluene-d8 SCAN	9.996	98	671689	10586.52 ug/L	96
37) Toluene SCAN	10.091	91	817861	9664.66 ug/L	99
38) 1,1,2-Trichloroethane ...	10.784	97	184417	9676.20 ug/L	96
39) Tetrachloroethene SCAN	10.920	166	185535	10694.48 ug/L	95
40) Chlorobenzene SCAN	12.281	112	496868	9558.64 ug/L	98
41) 1,1,1,2-Tetrachloroeth...	12.440	131	169933	10503.93 ug/L	94
42) Ethylbenzene SCAN	12.487	91	927542	9788.92 ug/L	99
43) m&p-Xylene SCAN	12.678	91	1397358	9445.27 ug/L	99
44) o-Xylene SCAN	13.297	91	733884	9633.27 ug/L	99
45) 1,1,2,2-Tetrachloroeth...	14.427	83	337242	9786.02 ug/L	99
46) 1,3,5-Trimethylbenzene...	14.858	105	697772	9655.96 ug/L	98
47) 1,2,4-Trimethylbenzene...	15.439	105	723782	9611.30 ug/L	98
48) Naphthalene SCAN	17.661	128	992701	9558.14 ug/L	99

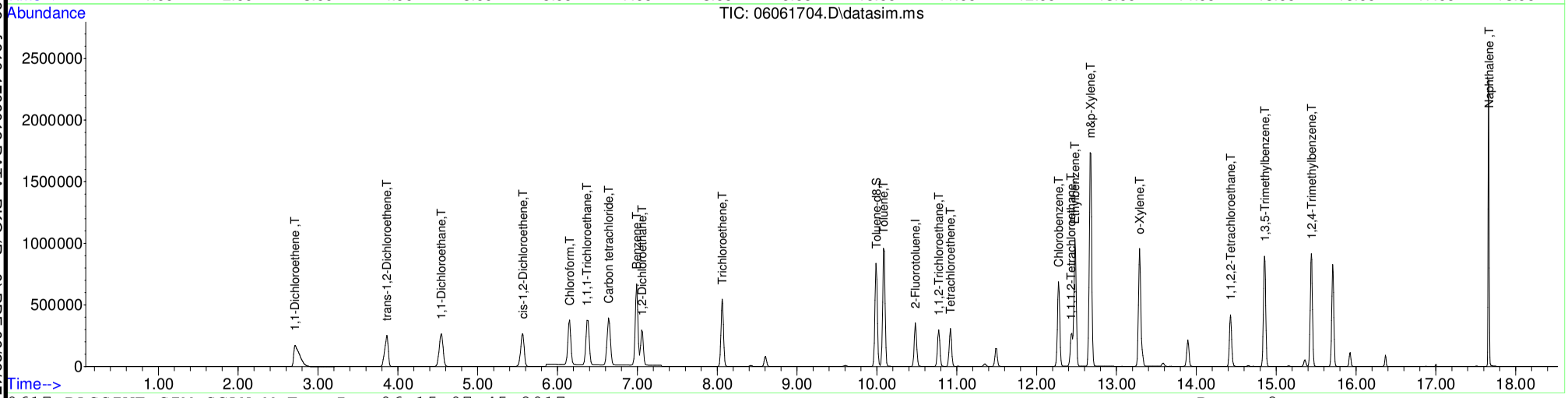
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061704.D
Acq On : 6 Jun 2017 12:27
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL2
Misc : 1717058 10mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 15:07:43 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration





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S17F020-CAL3

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061705.D
Acq On : 6 Jun 2017 12:51
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL3
Misc : 1717059 5 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 06 15:07:53 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration

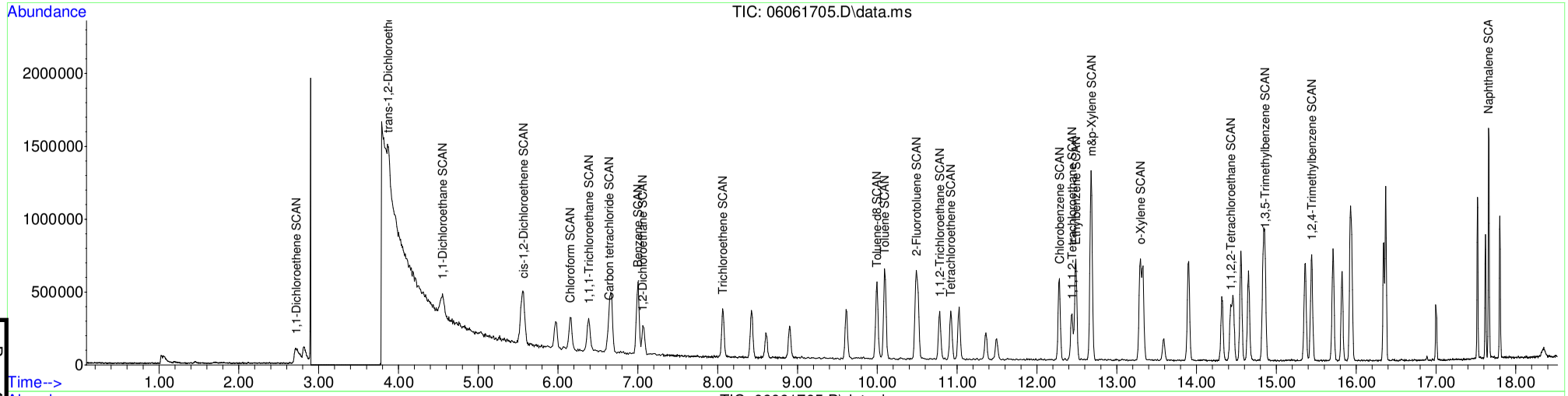
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.480	109	753112	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	618742	5016.71 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.33%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.711	61	282652	4620.71 ug/L	100
3] trans-1,2-Dichloroethene	3.869	61	305598	4747.14 ug/L	100
4] 1,1-Dichloroethane	4.553	63	336338	4847.07 ug/L	100
5] cis-1,2-Dichloroethene	5.568	61	322806	4866.79 ug/L	100
6] Chloroform	6.152	83	305780	4764.21 ug/L	100
7] 1,1,1-Trichloroethane	6.383	97	292158	4956.26 ug/L	100
8] Carbon tetrachloride	6.638	117	254113	4997.27 ug/L	100
9] Benzene	6.991	78	708174	4737.97 ug/L	100
10] 1,2-Dichloroethane	7.064	62	273396	4937.11 ug/L	100
11] Trichloroethene	8.063	130	191179	4973.45 ug/L	100
13] Toluene	10.092	91	786682	4816.53 ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	174420	4993.96 ug/L	100
15] Tetrachloroethene	10.921	166	210806	5035.64 ug/L	100
16] Chlorobenzene	12.274	112	523280	5043.84 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.433	131	173326	5089.96 ug/L	100
18] Ethylbenzene	12.480	91	890919	5068.46 ug/L	100
19] m&p-Xylene	12.679	91	1412472	10243.24 ug/L	100
20] o-Xylene	13.291	91	724395	5079.59 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.429	83	309719	5106.51 ug/L	100
22] 1,3,5-Trimethylbenzene	14.853	105	736788	5232.54 ug/L	100
23] 1,2,4-Trimethylbenzene	15.439	105	755062	5230.68 ug/L	100
24] Naphthalene	17.661	128	1158599	5419.63 ug/L	100
25) 2-Fluorotoluene SCAN	10.490	109	456548	5000.00 ug/L	100
26) 1,1-Dichloroethene SCAN	2.713	61	192092	5000.00 ug/L	100
27) trans-1,2-Dichloroethe...	3.868	61	205001	5000.00 ug/L	100
28) 1,1-Dichloroethane SCAN	4.551	63	233726	5000.00 ug/L	100
29) cis-1,2-Dichloroethene...	5.566	61	236486	5000.00 ug/L	100
30) Chloroform SCAN	6.150	83	213249	5000.00 ug/L	100
31) 1,1,1-Trichloroethane ...	6.381	97	175493	5000.00 ug/L	100
32) Carbon tetrachloride SCAN	6.637	117	161555	5000.00 ug/L	100
33) Benzene SCAN	7.002	78	483317	5000.00 ug/L	100
34) 1,2-Dichloroethane SCAN	7.063	62	208543	5000.00 ug/L	100
35) Trichloroethene SCAN	8.062	130	111925	5000.00 ug/L	100
36) Toluene-d8 SCAN	9.996	98	376794	5000.00 ug/L	100
37) Toluene SCAN	10.091	91	502553	5000.00 ug/L	100
38) 1,1,2-Trichloroethane ...	10.783	97	113184	5000.00 ug/L	100
39) Tetrachloroethene SCAN	10.920	166	103028	5000.00 ug/L	100
40) Chlorobenzene SCAN	12.281	112	308698	5000.00 ug/L	100
41) 1,1,1,2-Tetrachloroeth...	12.439	131	96076	5000.00 ug/L	100
42) Ethylbenzene SCAN	12.487	91	562714	5000.00 ug/L	100
43) m&p-Xylene SCAN	12.678	91	878582	5000.00 ug/L	100
44) o-Xylene SCAN	13.297	91	452421	5000.00 ug/L	100
45) 1,1,2,2-Tetrachloroeth...	14.428	83	204656	5000.00 ug/L	100
46) 1,3,5-Trimethylbenzene...	14.857	105	429148	5000.00 ug/L	100
47) 1,2,4-Trimethylbenzene...	15.443	105	447213	5000.00 ug/L	100
48) Naphthalene SCAN	17.660	128	616785	5000.00 ug/L	100

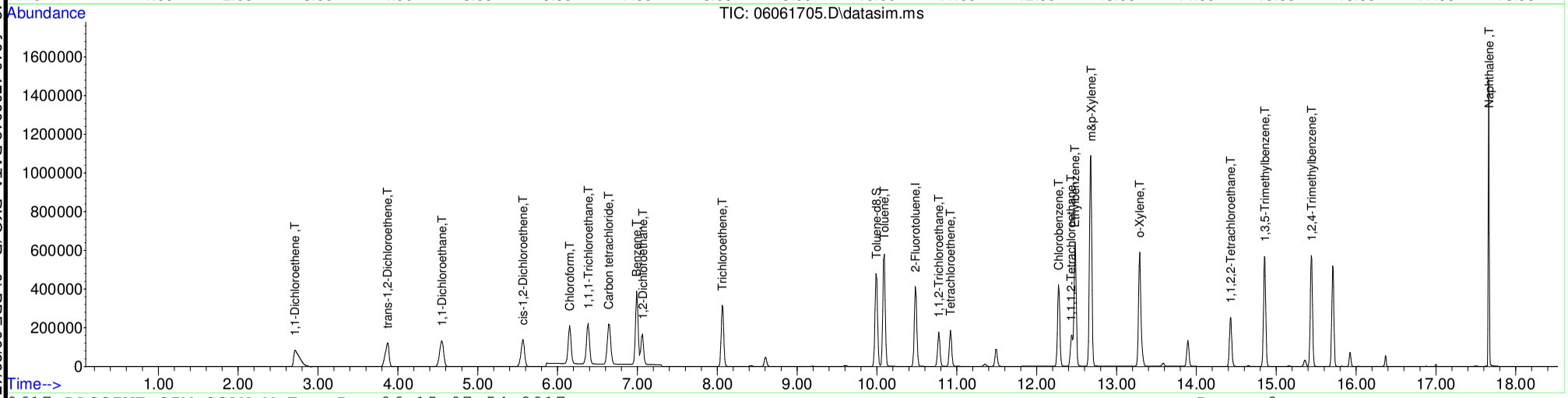
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061705.D
Acq On : 6 Jun 2017 12:51
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL3
Misc : 1717059 5 mg/L
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 06 15:07:53 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration





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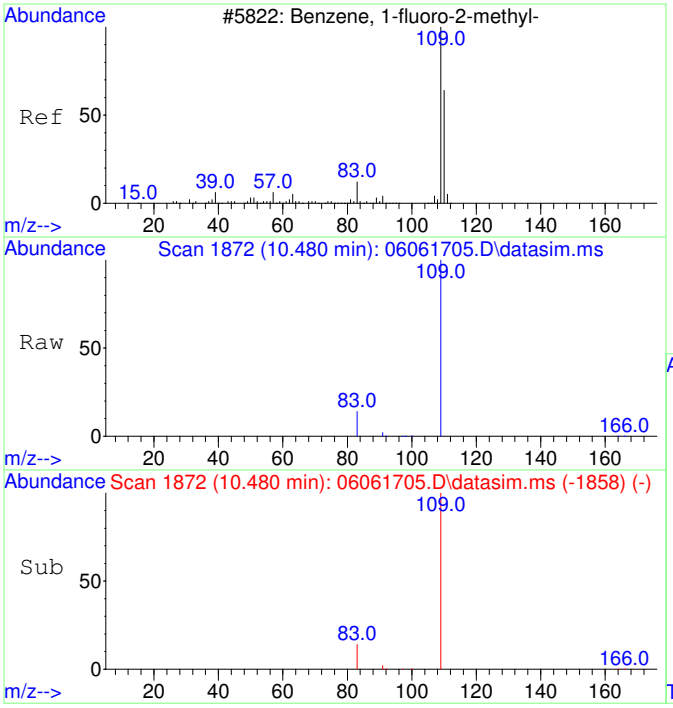
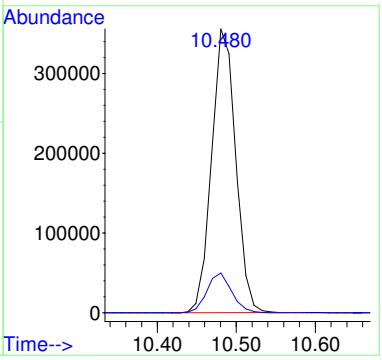
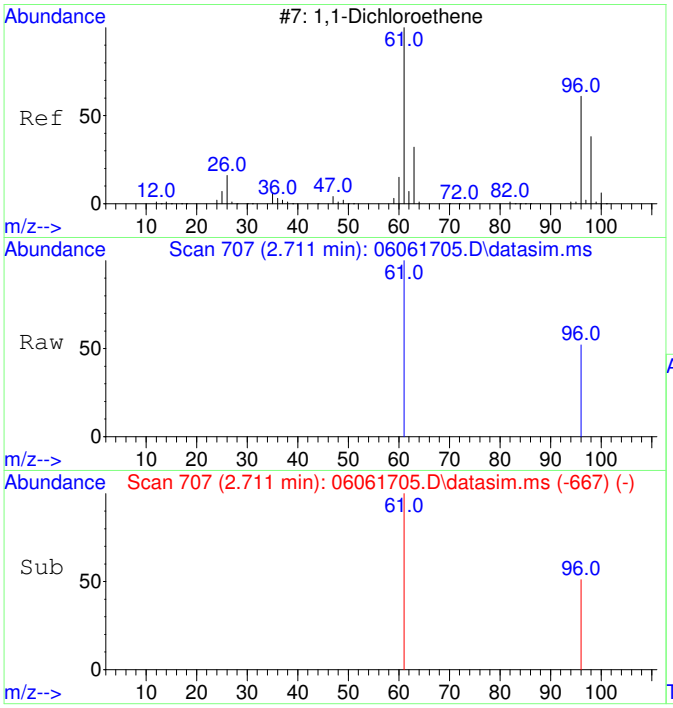


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:109 Resp: 753112

Ion	Ratio	Lower	Upper
109	100		
83	14.4	0.0	44.4

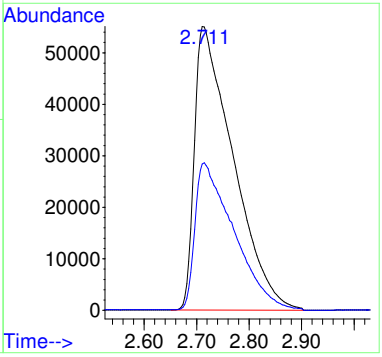


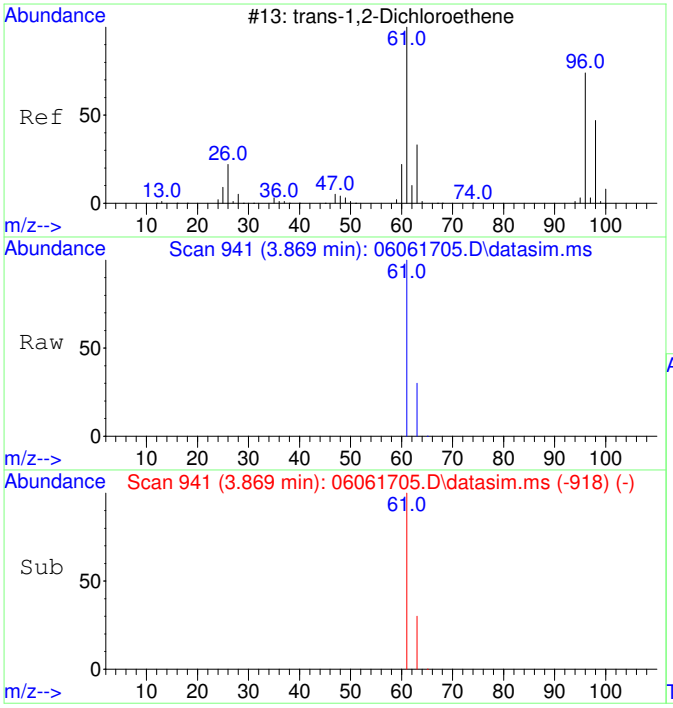


#2
1,1-Dichloroethene
Concen: 4620.71 ug/L
RT: 2.711 min Scan# 707
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 61 Resp: 282652

Ion	Ratio	Lower	Upper
61	100		
96	51.8	21.8	81.8

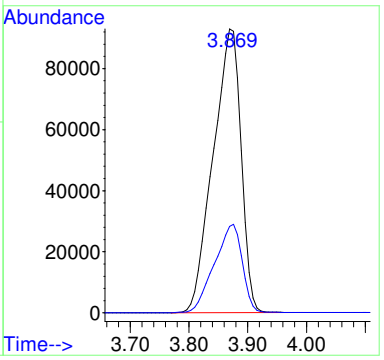


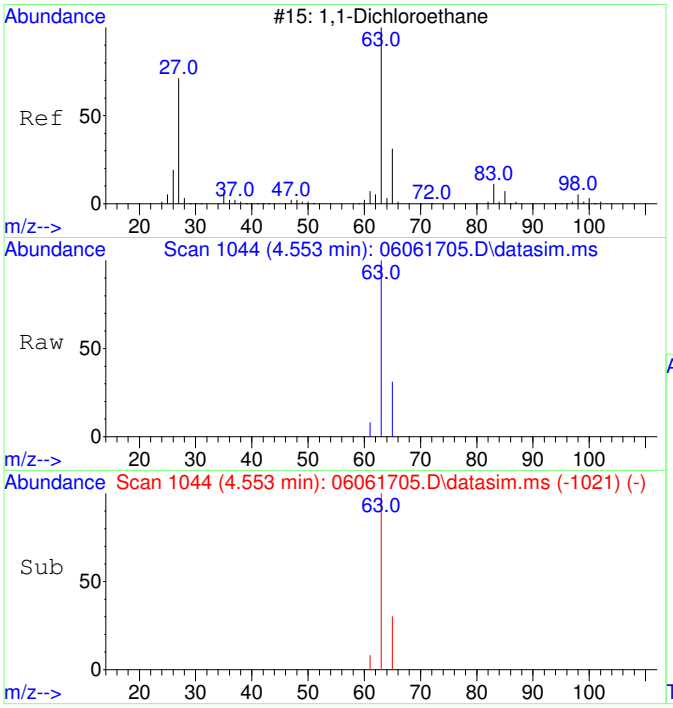


#3
trans-1,2-Dichloroethene
Concen: 4747.14 ug/L
RT: 3.869 min Scan# 941
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 61 Resp: 305598

Ion	Ratio	Lower	Upper
61	100		
63	31.0	1.0	61.0

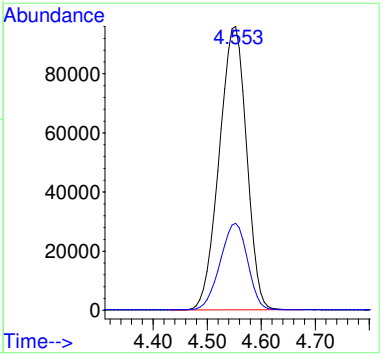


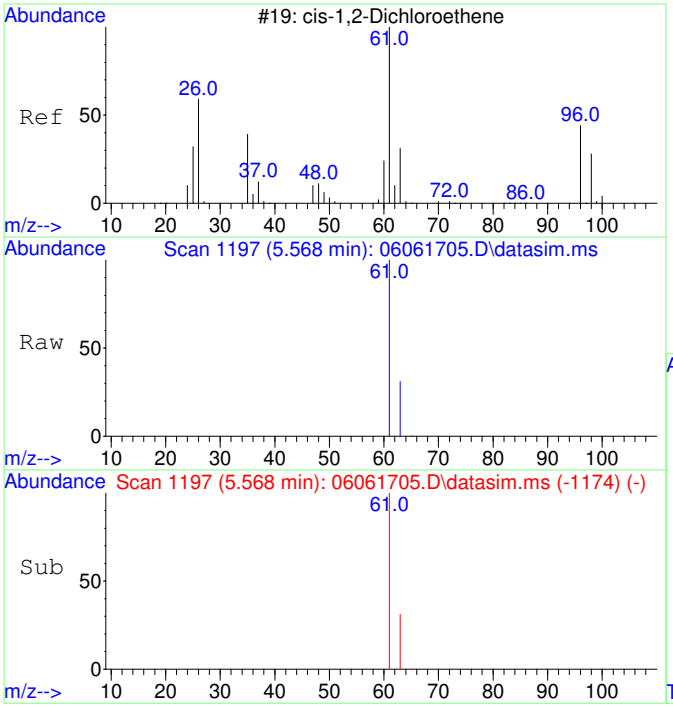


#4
1,1-Dichloroethane
Concen: 4847.07 ug/L
RT: 4.553 min Scan# 1044
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 63 Resp: 336338

Ion	Ratio	Lower	Upper
63	100		
65	30.4	0.5	60.5

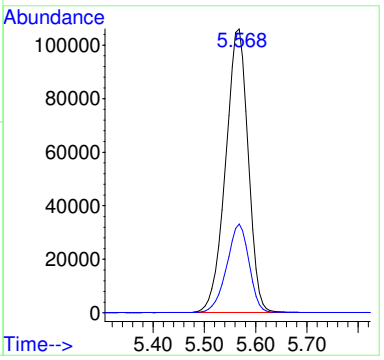


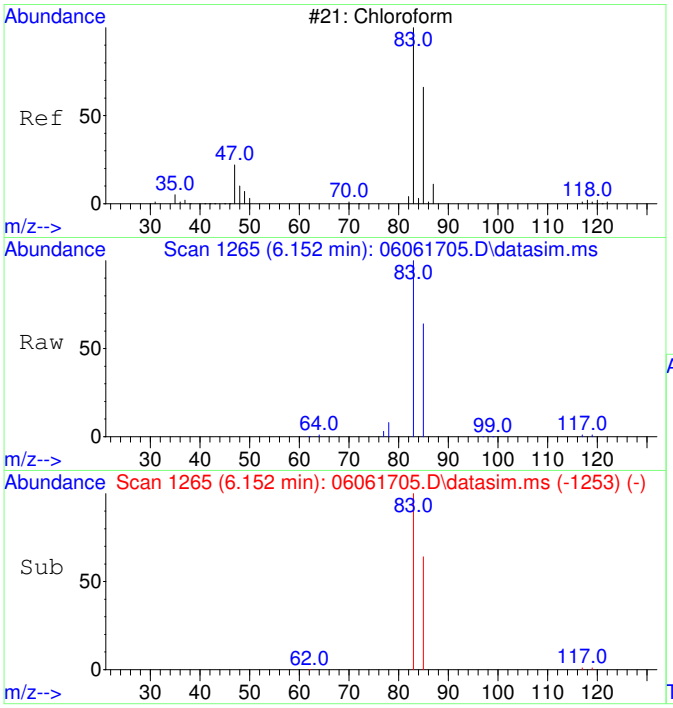


#5
cis-1,2-Dichloroethene
Concen: 4866.79 ug/L
RT: 5.568 min Scan# 1197
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 61 Resp: 322806

Ion	Ratio	Lower	Upper
61	100		
63	30.9	0.9	60.9

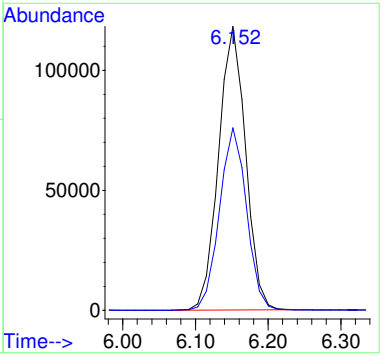


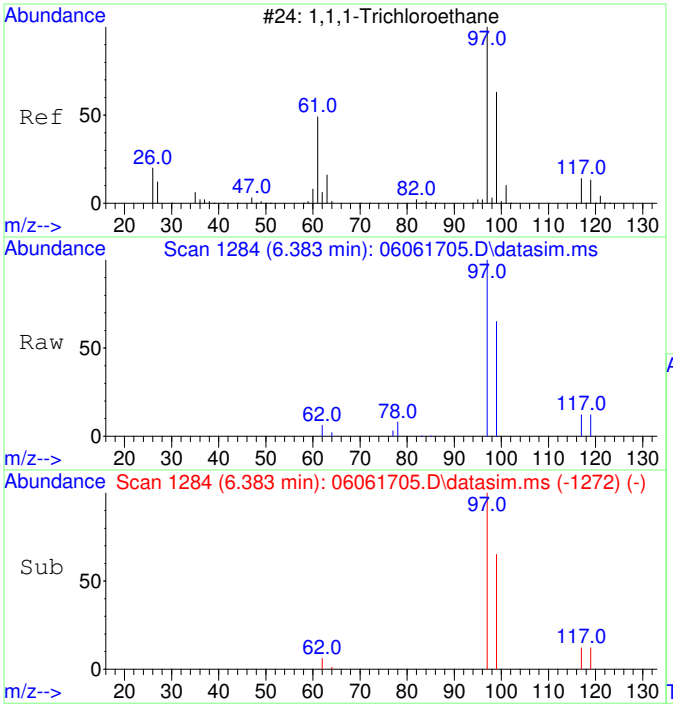


#6
Chloroform
Concen: 4764.21 ug/L
RT: 6.152 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 83 Resp: 305780

Ion	Ratio	Lower	Upper
83	100		
85	63.7	33.7	93.7

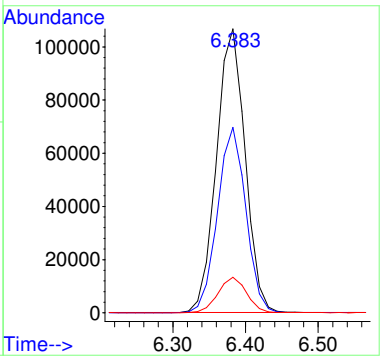


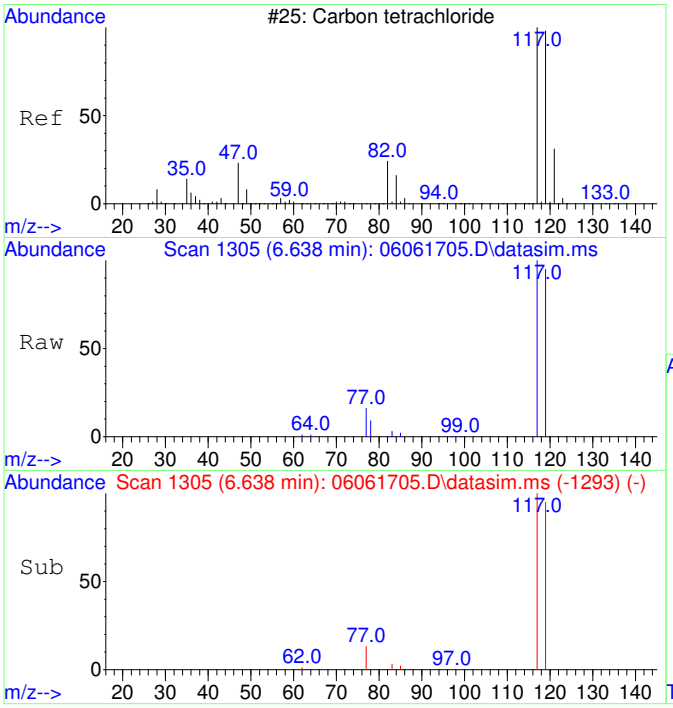


#7
1,1,1-Trichloroethane
Concen: 4956.26 ug/L
RT: 6.383 min Scan# 1284
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 97 Resp: 292158

Ion	Ratio	Lower	Upper
97	100		
99	64.3	34.3	94.3
117	12.3	0.0	42.3

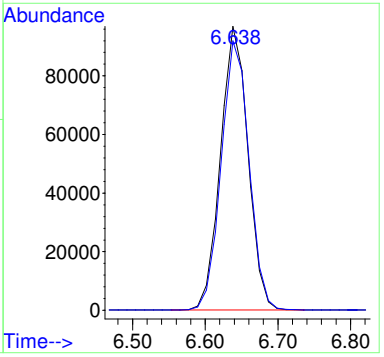


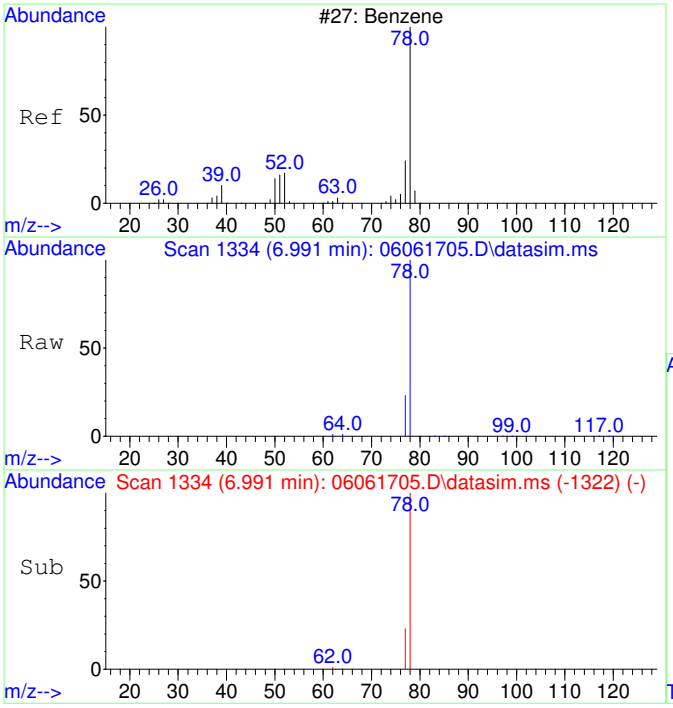


#8
Carbon tetrachloride
Concen: 4997.27 ug/L
RT: 6.638 min Scan# 1305
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:117 Resp: 254113

Ion	Ratio	Lower	Upper
117	100		
119	95.5	65.4	125.4

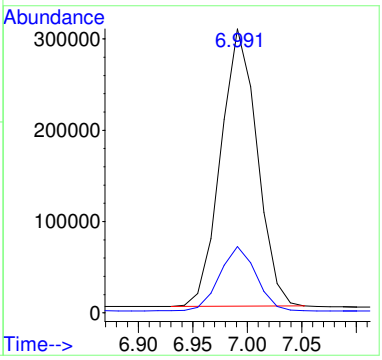


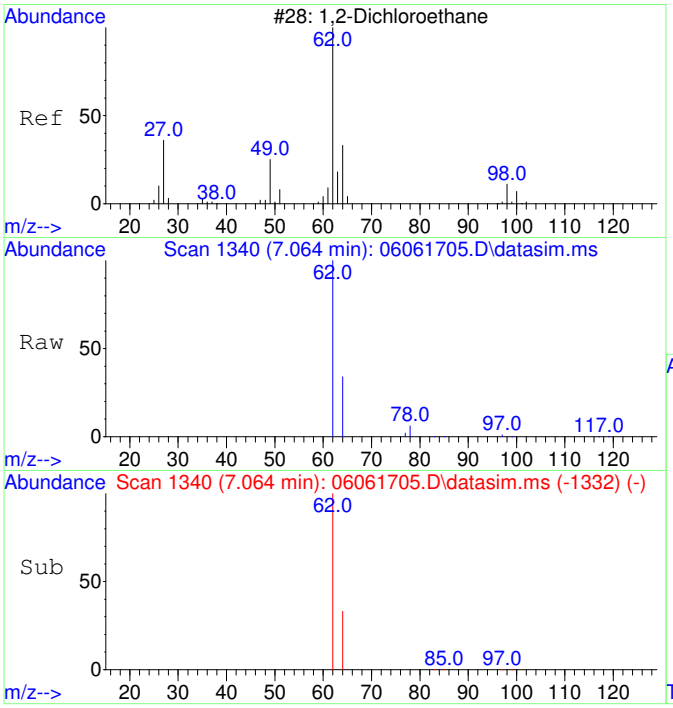


#9
Benzene
Concen: 4737.97 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 78 Resp: 708174

Ion	Ratio	Lower	Upper
78	100		
77	23.0	0.0	53.0

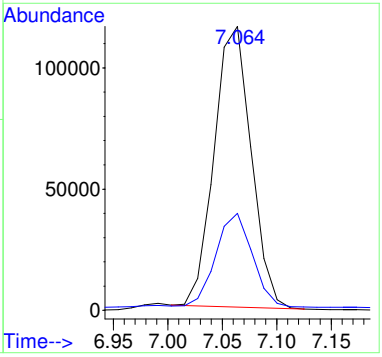


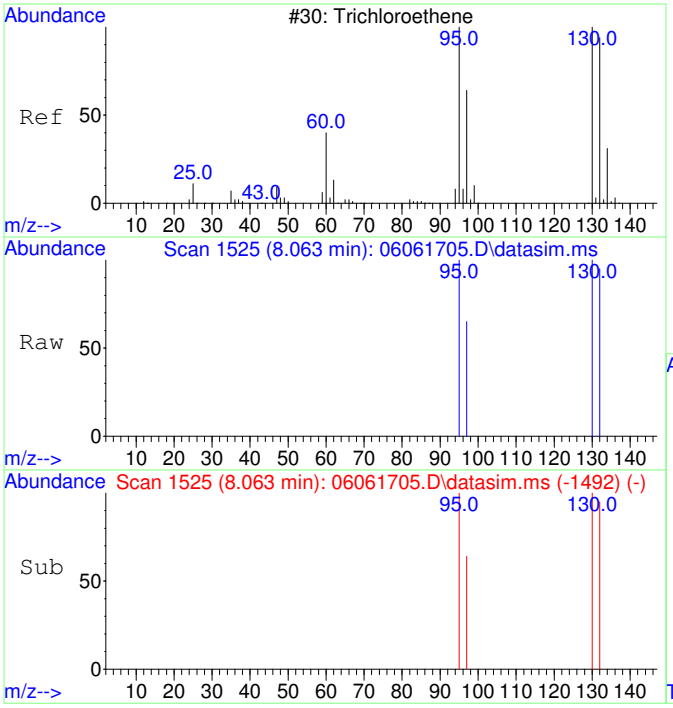


#10
1,2-Dichloroethane
Concen: 4937.11 ug/L
RT: 7.064 min Scan# 1340
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 62 Resp: 273396

Ion	Ratio	Lower	Upper
62	100		
64	32.6	2.6	62.6

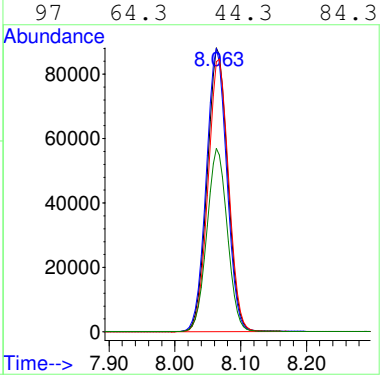


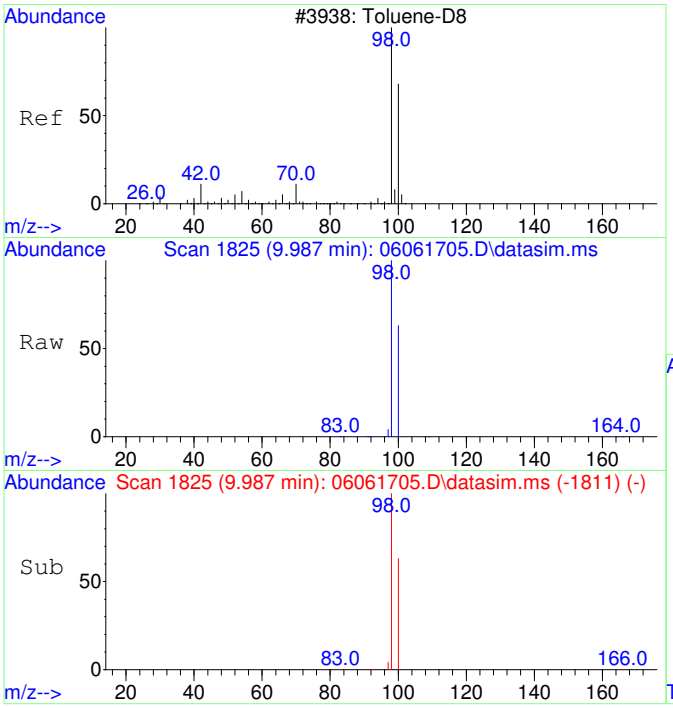


#11
Trichloroethene
Concen: 4973.45 ug/L
RT: 8.063 min Scan# 1525
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:130 Resp: 191179

Ion	Ratio	Lower	Upper
130	100		
95	99.8	69.8	129.8
132	96.4	76.4	116.4
97	64.3	44.3	84.3

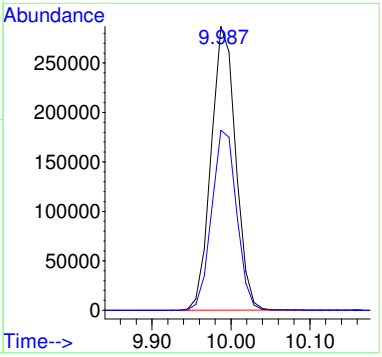


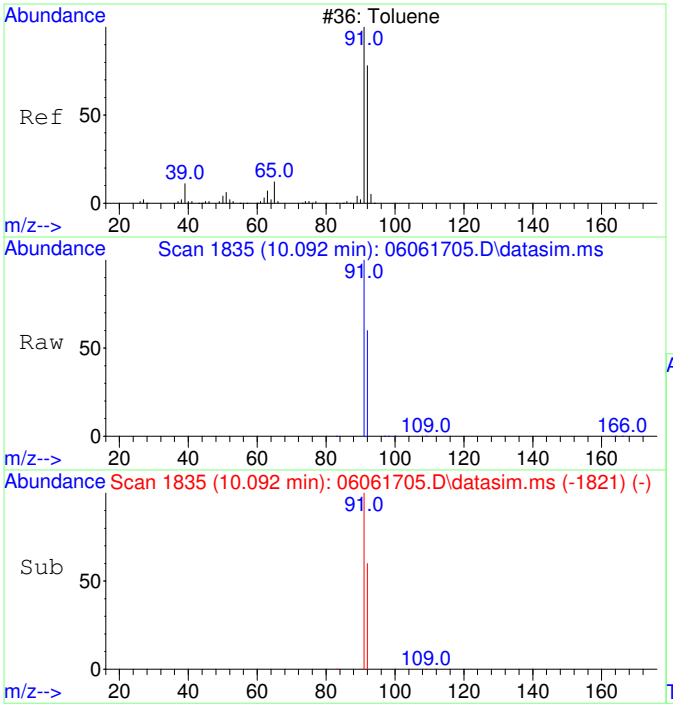


#12
Toluene-d8
Concen: 5016.71 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 98 Resp: 618742

Ion	Ratio	Lower	Upper
98	100		
100	64.2	34.2	94.2

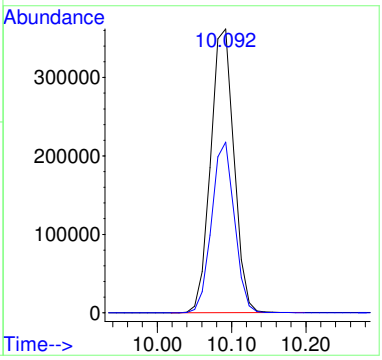


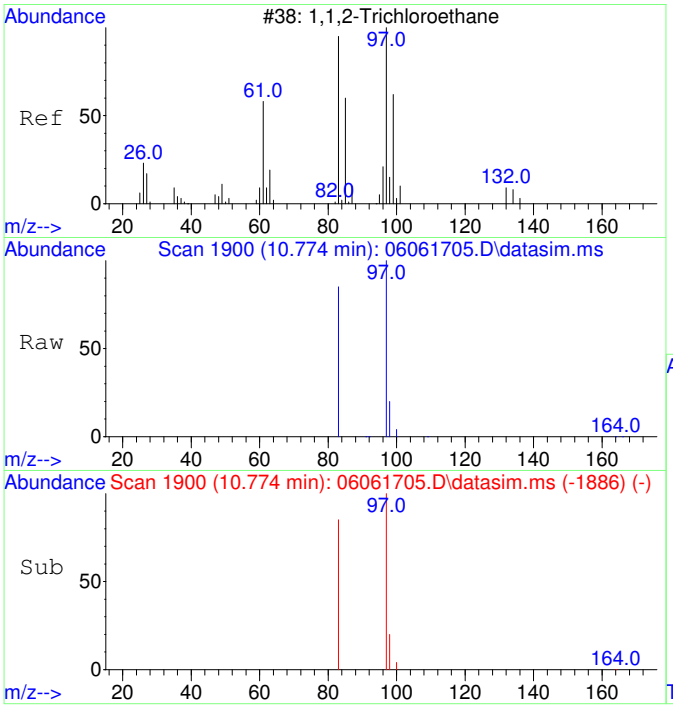


#13
Toluene
Concen: 4816.53 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 91 Resp: 786682

Ion	Ratio	Lower	Upper
91	100		
92	58.4	28.4	88.4

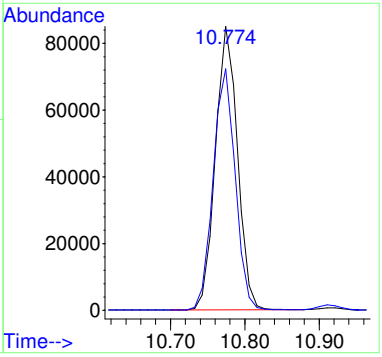


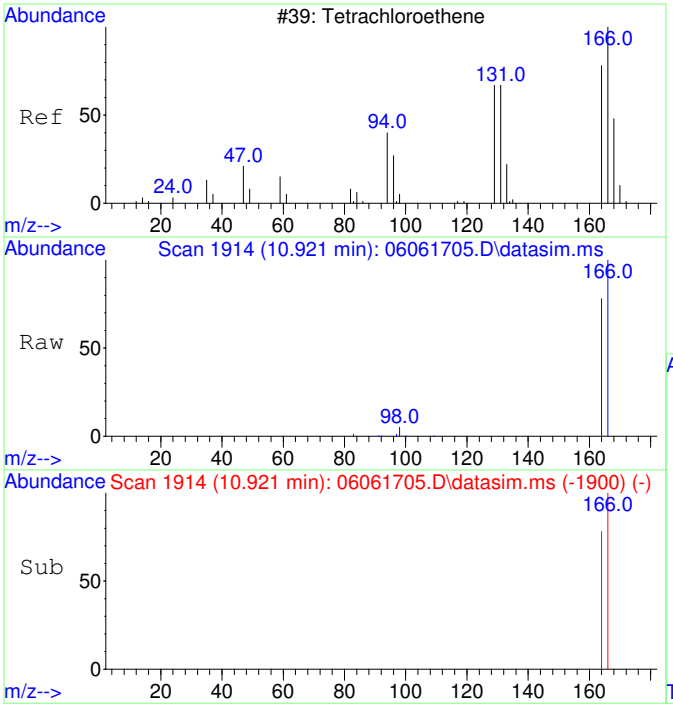


#14
1,1,2-Trichloroethane
Concen: 4993.96 ug/L
RT: 10.774 min Scan# 1900
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 97 Resp: 174420

Ion	Ratio	Lower	Upper
97	100		
83	84.5	54.5	114.5

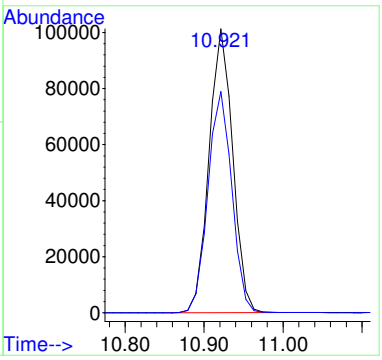


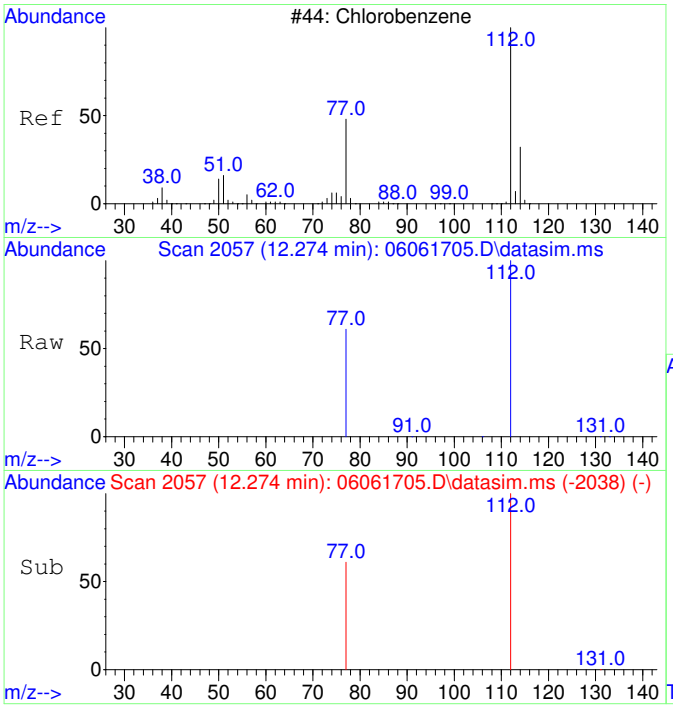


#15
Tetrachloroethene
Concen: 5035.64 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:166 Resp: 210806

Ion	Ratio	Lower	Upper
166	100		
164	78.1	48.2	108.2

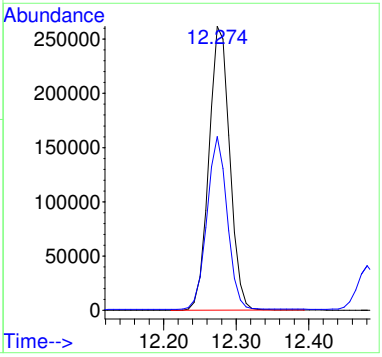


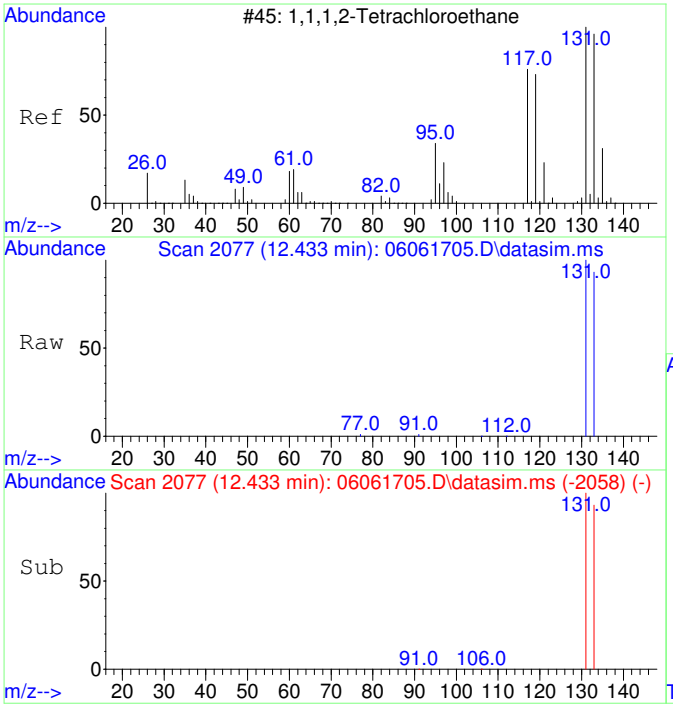


#16
Chlorobenzene
Concen: 5043.84 ug/L
RT: 12.274 min Scan# 2057
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:112 Resp: 523280

Ion	Ratio	Lower	Upper
112	100		
77	58.9	28.9	88.9

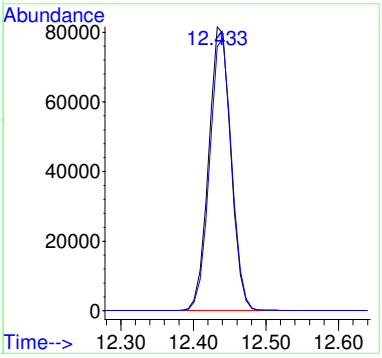


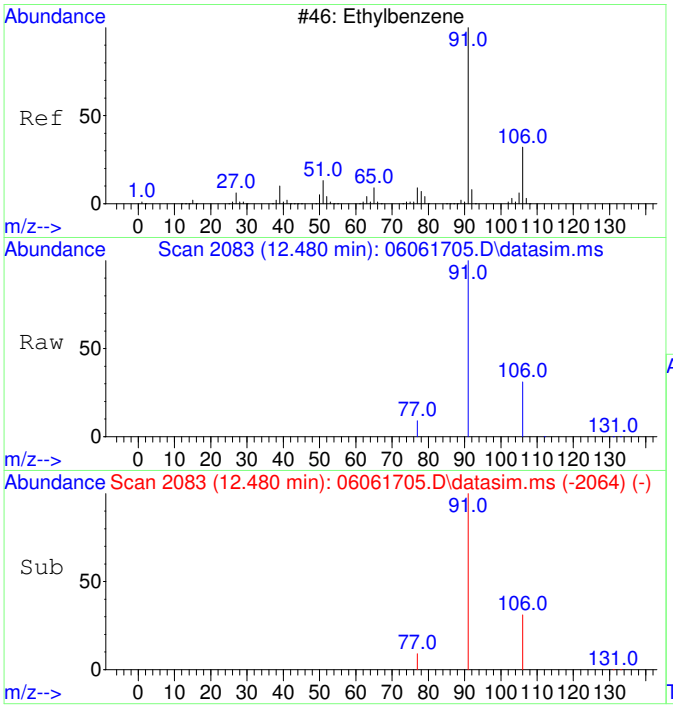


#17
1,1,1,2-Tetrachloroethane
Concen: 5089.96 ug/L
RT: 12.433 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:131 Resp: 173326

Ion	Ratio	Lower	Upper
131	100		
133	95.2	65.2	125.2

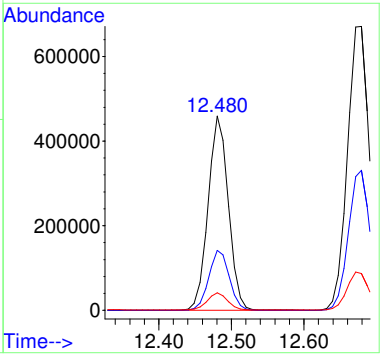


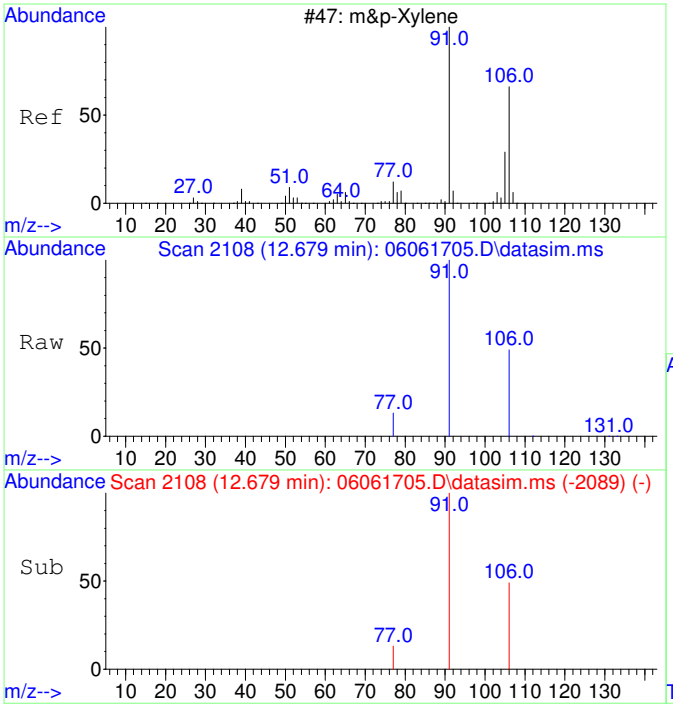


#18
Ethylbenzene
Concen: 5068.46 ug/L
RT: 12.480 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 91 Resp: 890919

Ion	Ratio	Lower	Upper
91	100		
106	31.2	1.2	61.2
77	8.6	0.0	38.6

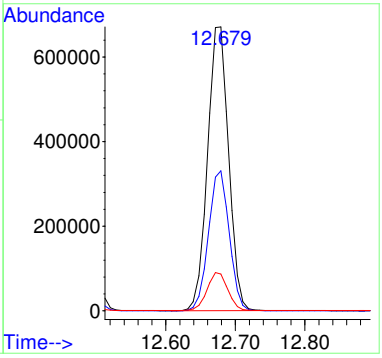


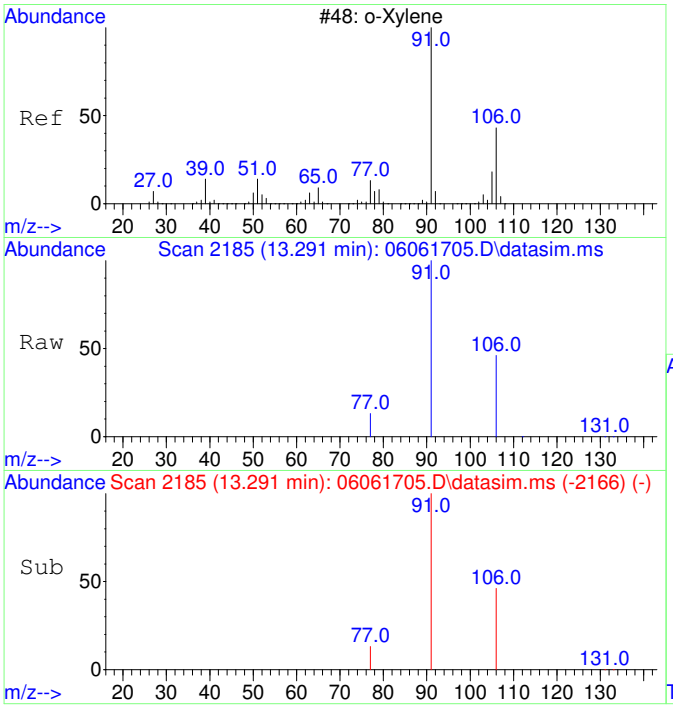


#19
m&p-Xylene
Concen: 10243.24 ug/L
RT: 12.679 min Scan# 2108
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 91 Resp: 1412472

Ion	Ratio	Lower	Upper
91	100		
106	48.4	18.4	78.4
77	13.1	0.0	43.0

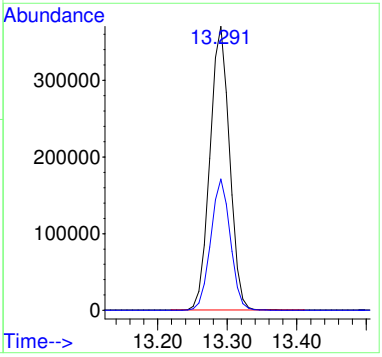


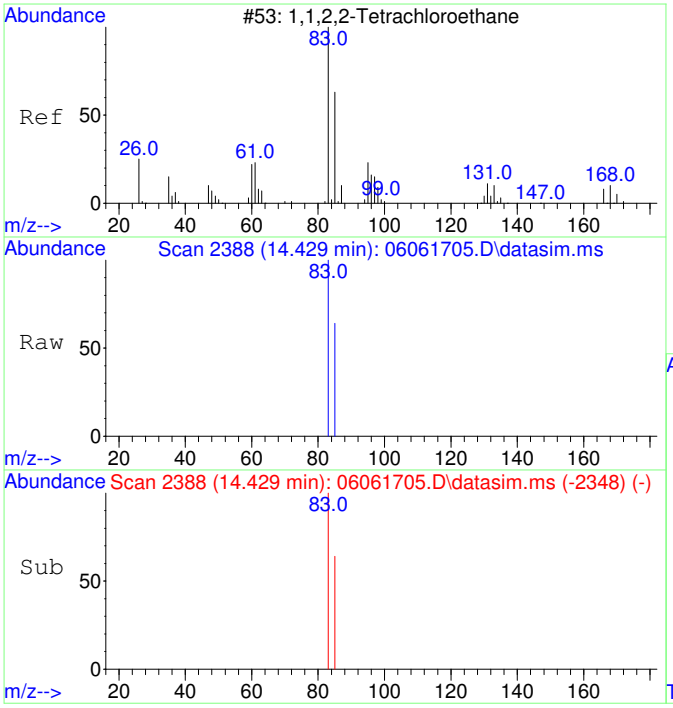


#20
o-Xylene
Concen: 5079.59 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 91 Resp: 724395

Ion	Ratio	Lower	Upper
91	100		
106	46.0	16.0	76.0

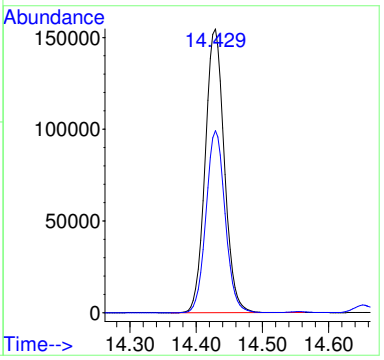


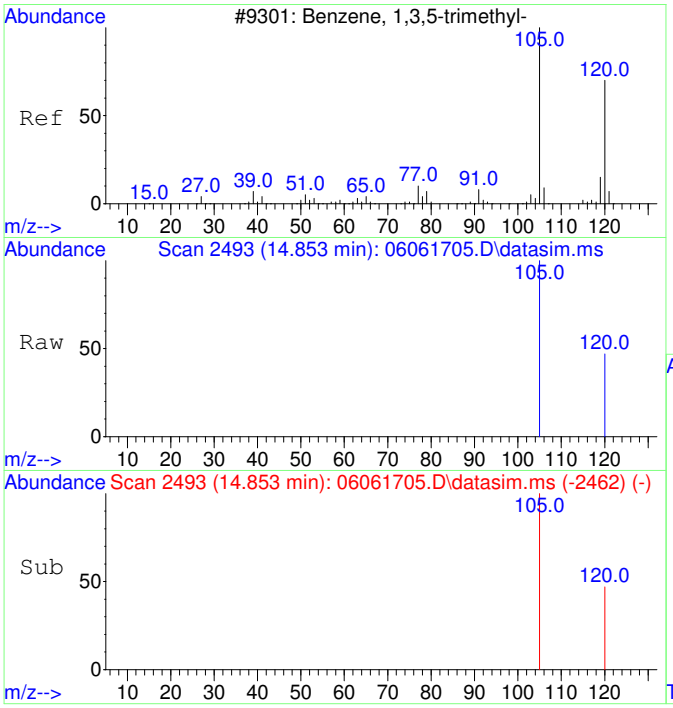


#21
1,1,2,2-Tetrachloroethane
Concen: 5106.51 ug/L
RT: 14.429 min Scan# 2388
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 83 Resp: 309719

Ion	Ratio	Lower	Upper
83	100		
85	64.1	34.2	94.2

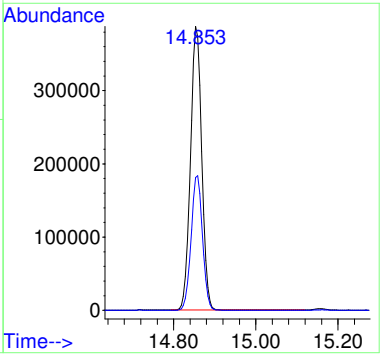


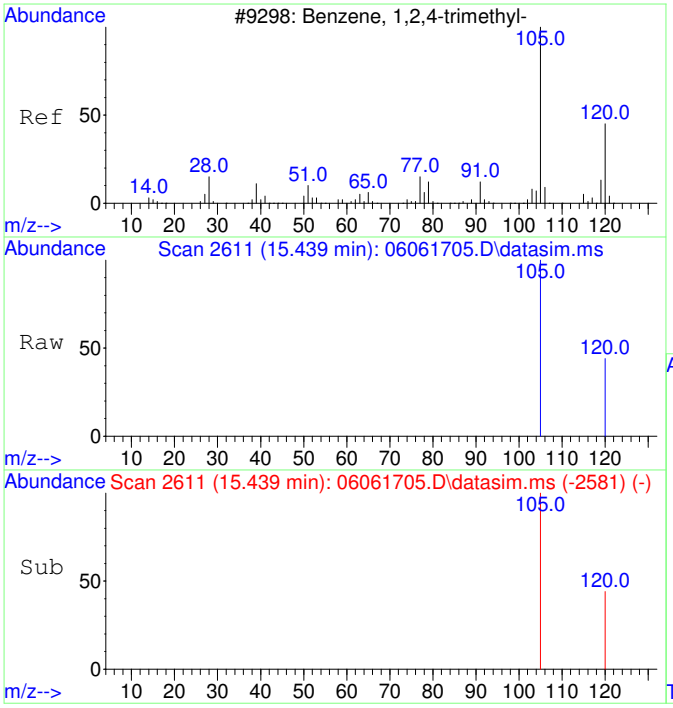


#22
1,3,5-Trimethylbenzene
Concen: 5232.54 ug/L
RT: 14.853 min Scan# 2493
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:105 Resp: 736788

Ion	Ratio	Lower	Upper
105	100		
120	48.0	18.0	78.0

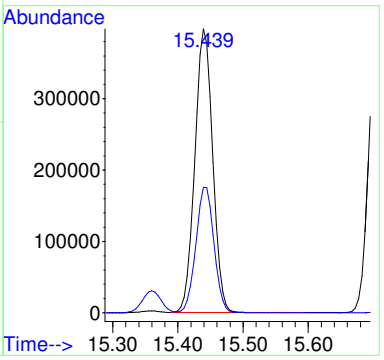


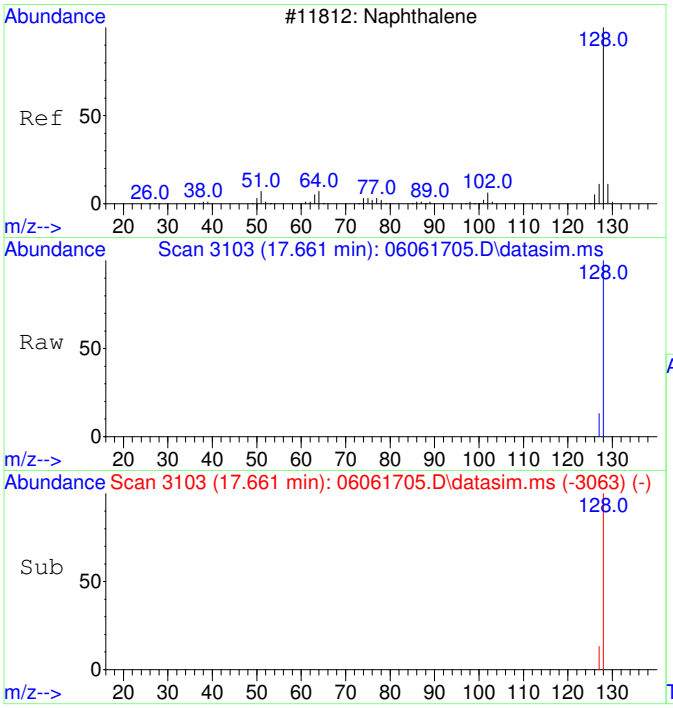


#23
1,2,4-Trimethylbenzene
Concen: 5230.68 ug/L
RT: 15.439 min Scan# 2611
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:105 Resp: 755062

Ion	Ratio	Lower	Upper
105	100		
120	44.4	14.4	74.4

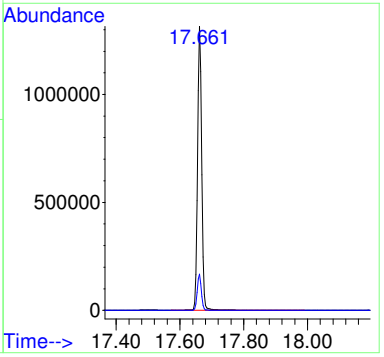


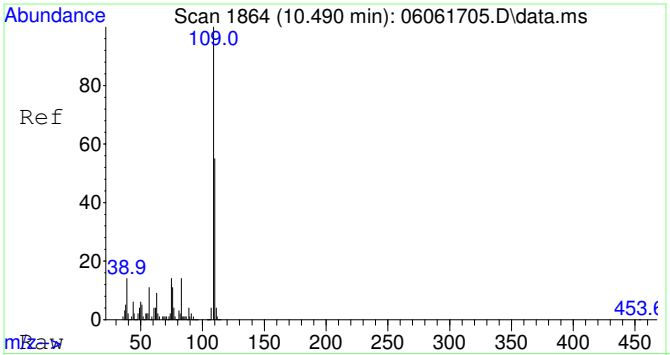


#24
Naphthalene
Concen: 5419.63 ug/L
RT: 17.661 min Scan# 3103
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:128 Resp: 1158599

Ion	Ratio	Lower	Upper
128	100		
127	12.7	0.0	42.7

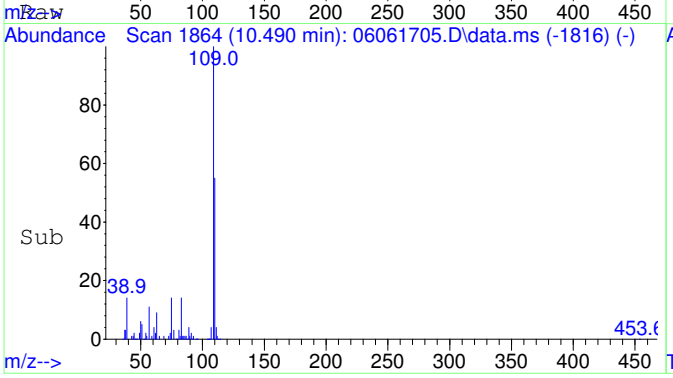


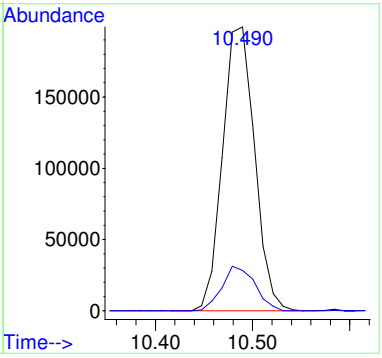


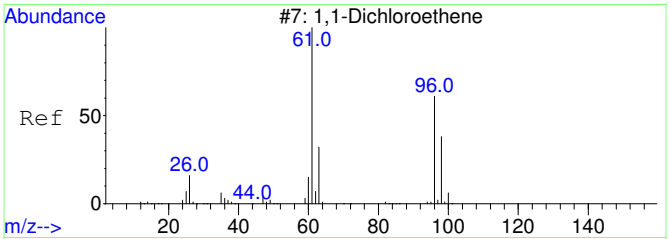
#25
2-Fluorotoluene SCAN
Concen: 5000.00 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:109 Resp: 456548

Ion	Ratio	Lower	Upper
109	100		
83	16.1	0.0	46.1



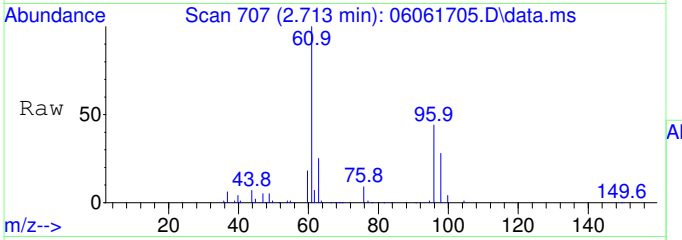


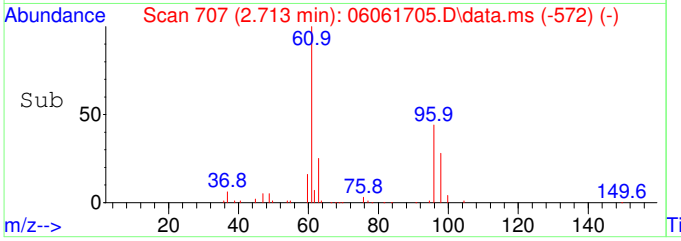


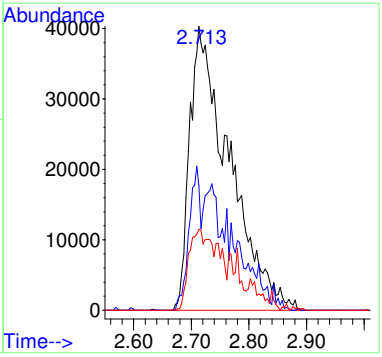
#26
1,1-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 2.713 min Scan# 707
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

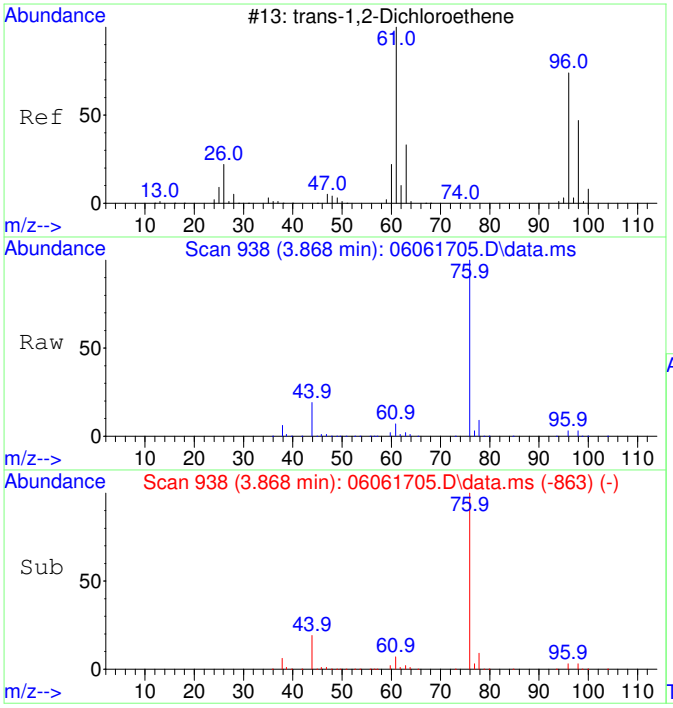
Tgt Ion: 61 Resp: 192092

Ion	Ratio	Lower	Upper
61	100		
96	46.7	16.7	76.7
98	15.3	0.0	45.3





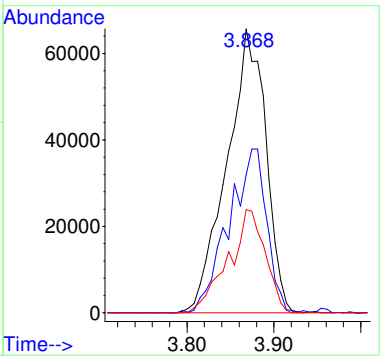


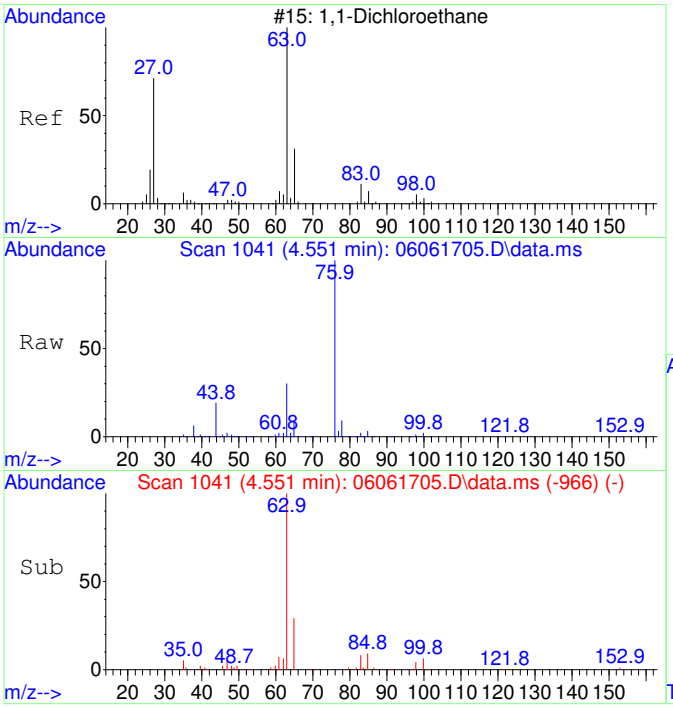


#27
trans-1,2-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 3.868 min Scan# 938
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 61 Resp: 205001

Ion	Ratio	Lower	Upper
61	100		
96	56.1	26.1	86.1
98	34.4	4.4	64.4

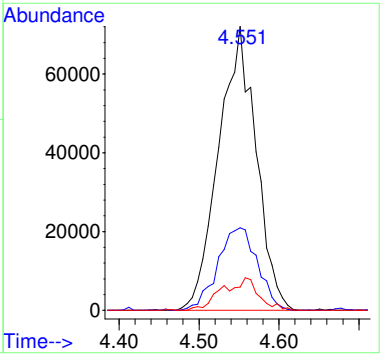


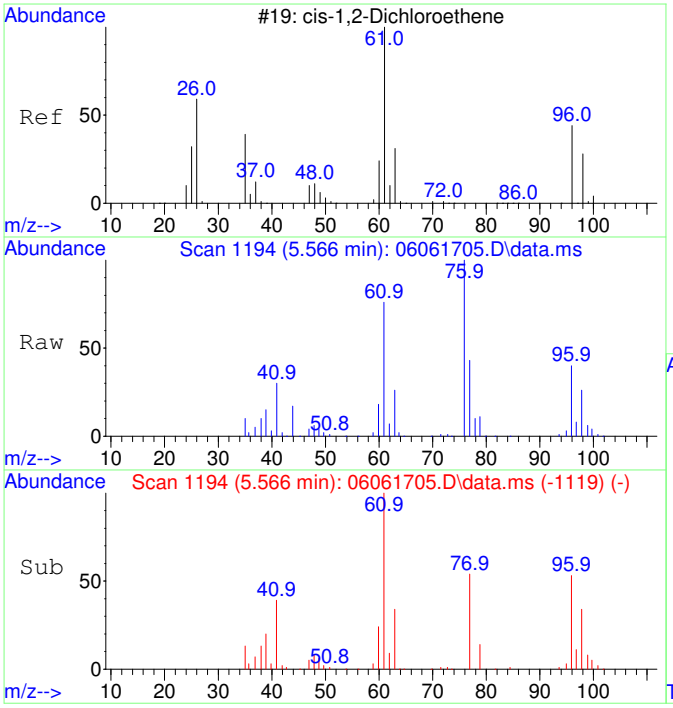


#28
1,1-Dichloroethane SCAN
Concen: 5000.00 ug/L
RT: 4.551 min Scan# 1041
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 63 Resp: 233726

Ion	Ratio	Lower	Upper
63	100		
65	31.1	1.1	61.1
83	1.5	0.0	31.5

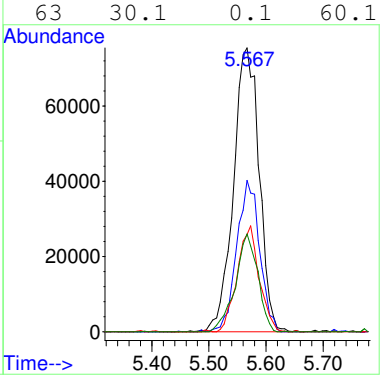


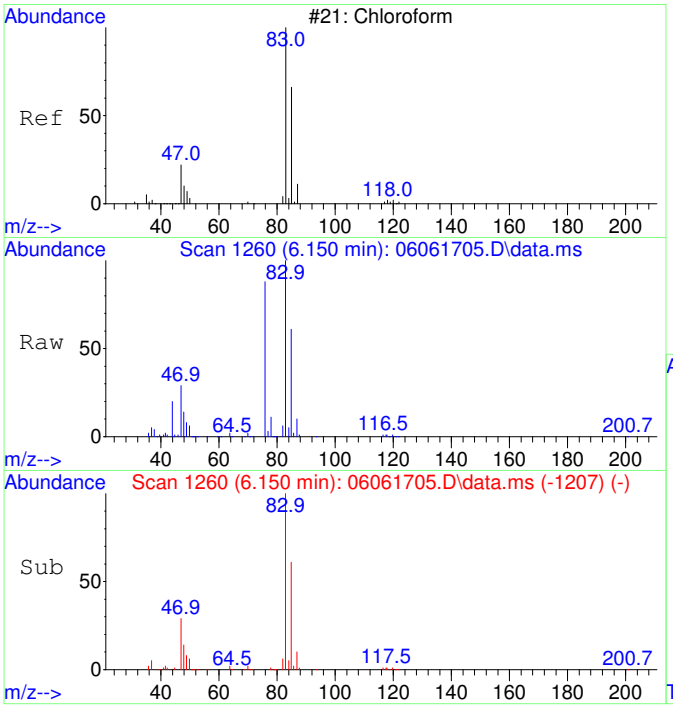


#29
cis-1,2-Dichloroethene SCAN
Concen: 5000.00 ug/L
RT: 5.566 min Scan# 1194
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 61 Resp: 236486

Ion	Ratio	Lower	Upper
61	100		
96	47.5	17.5	77.5
98	31.9	1.9	61.9
63	30.1	0.1	60.1

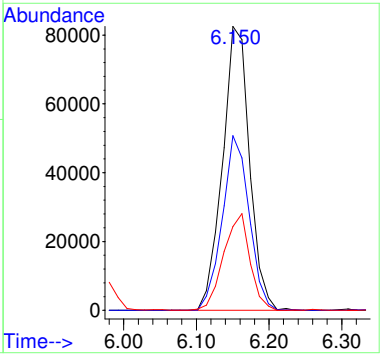


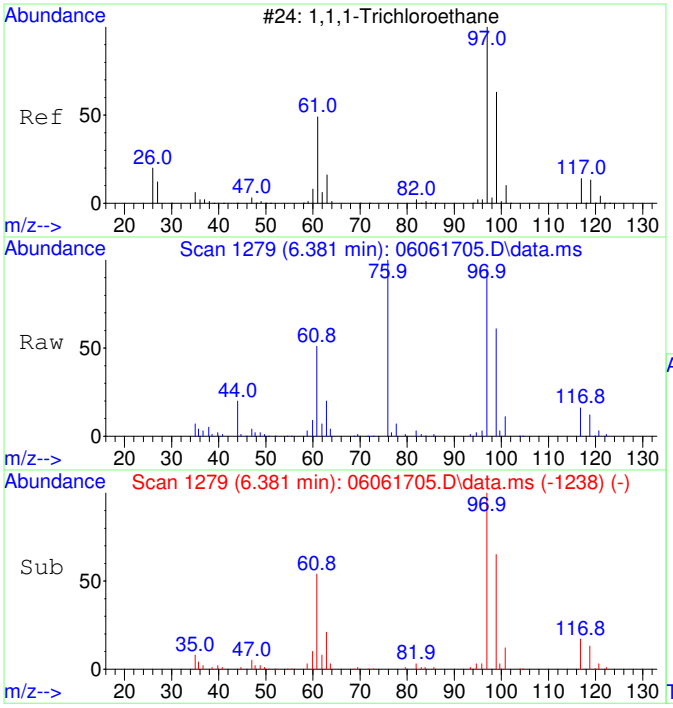


#30
Chloroform SCAN
Concen: 5000.00 ug/L
RT: 6.150 min Scan# 1260
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 83 Resp: 213249

Ion	Ratio	Lower	Upper
83	100		
85	61.2	31.2	91.2
47	33.2	3.2	63.2

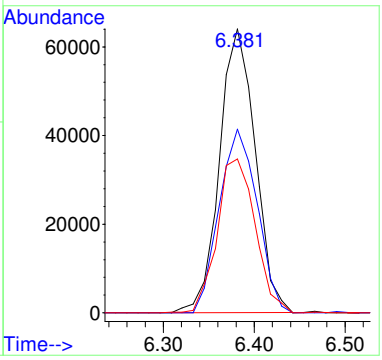


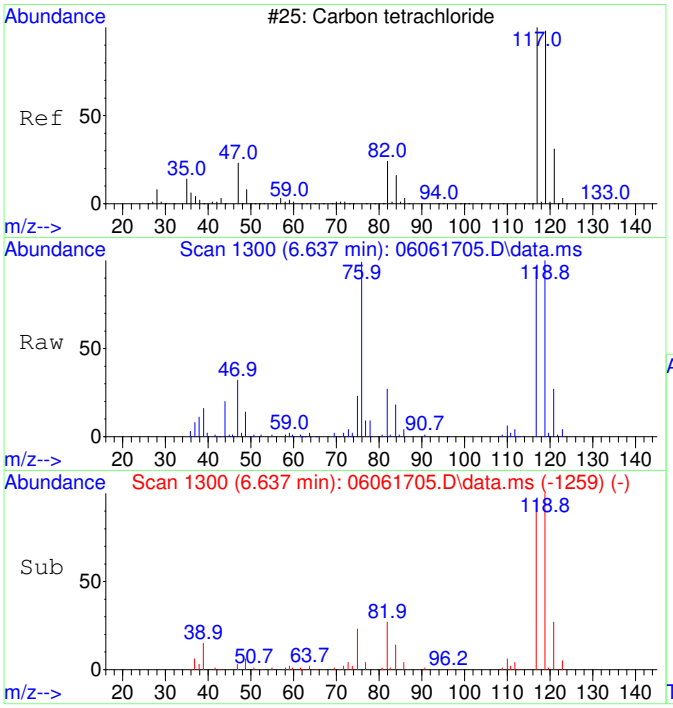


#31
1,1,1-Trichloroethane SCAN
Concen: 5000.00 ug/L
RT: 6.381 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 97 Resp: 175493

Ion	Ratio	Lower	Upper
97	100		
99	68.7	38.7	98.7
61	57.8	27.8	87.8

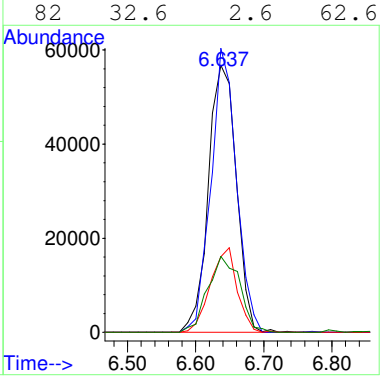


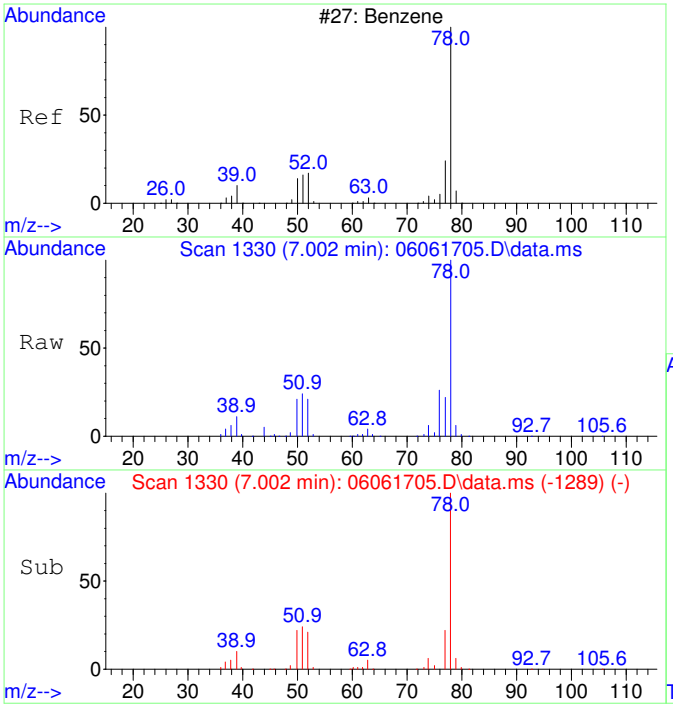


#32
Carbon tetrachloride SCAN
Concen: 5000.00 ug/L
RT: 6.637 min Scan# 1300
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:117 Resp: 161555

Ion	Ratio	Lower	Upper
117	100		
119	96.8	66.8	126.8
121	30.4	0.4	60.4
82	32.6	2.6	62.6

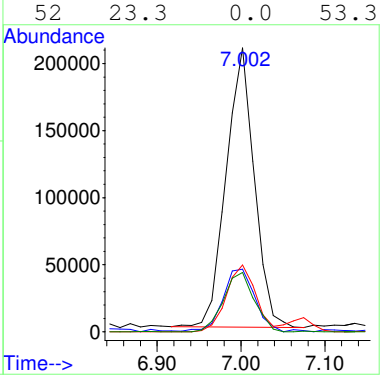


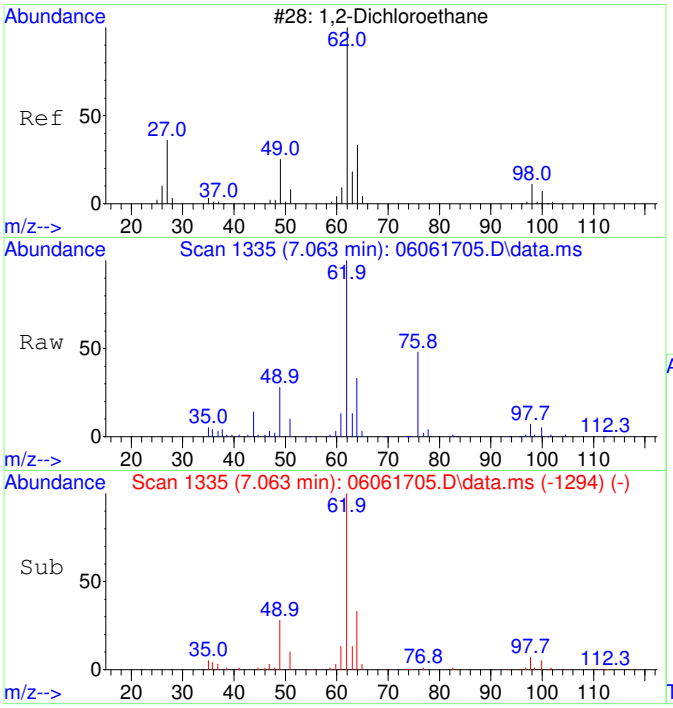


#33
Benzene SCAN
Concen: 5000.00 ug/L
RT: 7.002 min Scan# 1330
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 78 Resp: 483317

Ion	Ratio	Lower	Upper
78	100		
77	25.2	0.0	55.2
51	22.4	0.0	52.4
52	23.3	0.0	53.3

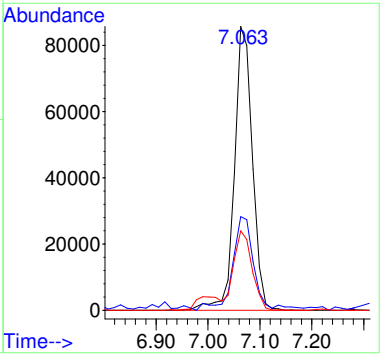


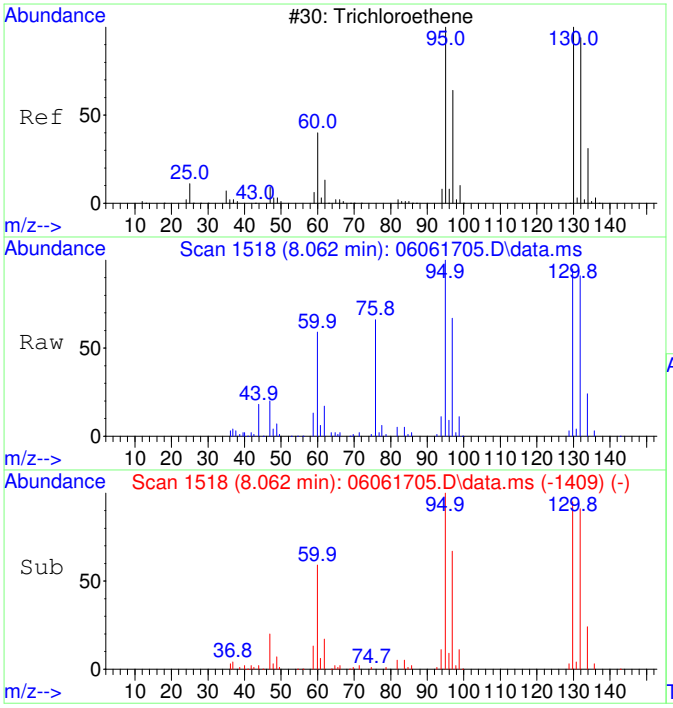


#34
1,2-Dichloroethane SCAN
Concen: 5000.00 ug/L
RT: 7.063 min Scan# 1335
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 62 Resp: 208543

Ion	Ratio	Lower	Upper
62	100		
64	37.4	7.4	67.4
49	24.8	0.0	54.8

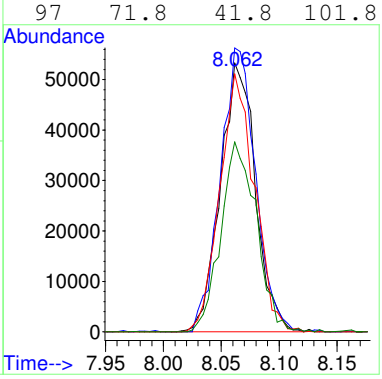


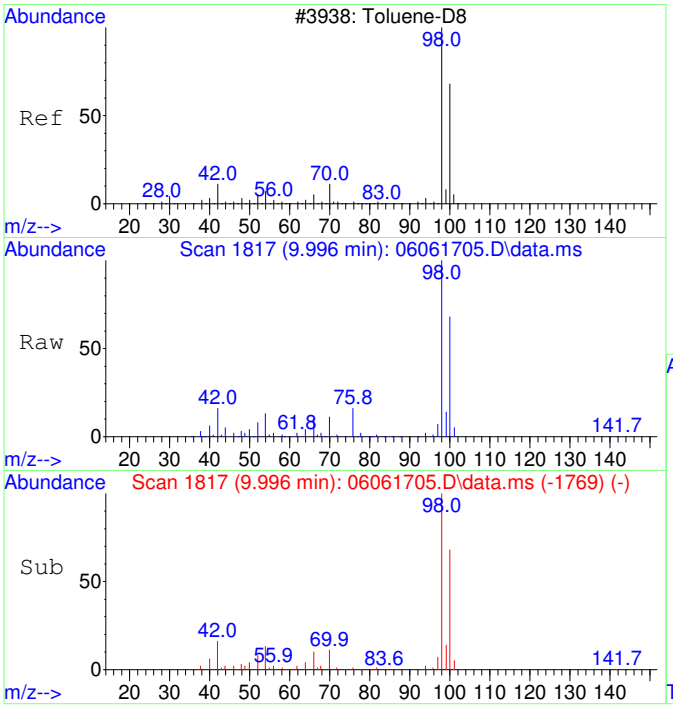


#35
Trichloroethene SCAN
Concen: 5000.00 ug/L
RT: 8.062 min Scan# 1518
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:130 Resp: 111925

Ion	Ratio	Lower	Upper
130	100		
95	106.1	76.1	136.1
132	95.6	65.6	125.6
97	71.8	41.8	101.8

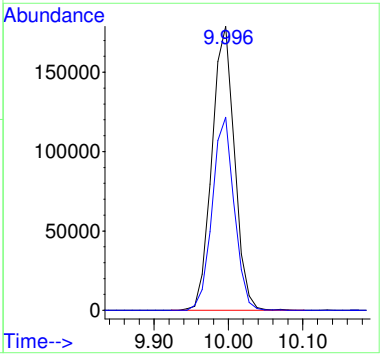


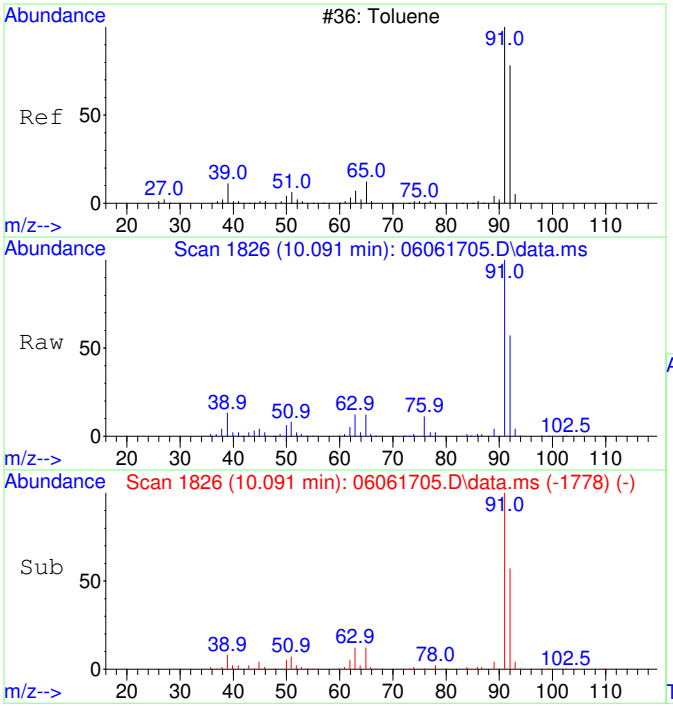


#36
Toluene-d8 SCAN
Concen: 5000.00 ug/L
RT: 9.996 min Scan# 1817
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 98 Resp: 376794

Ion	Ratio	Lower	Upper
98	100		
100	66.2	36.2	96.2

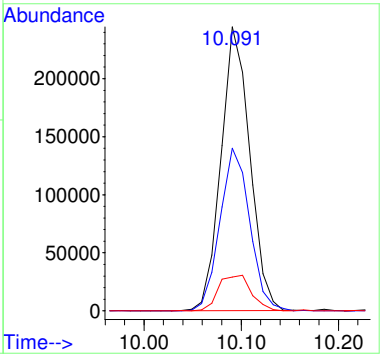


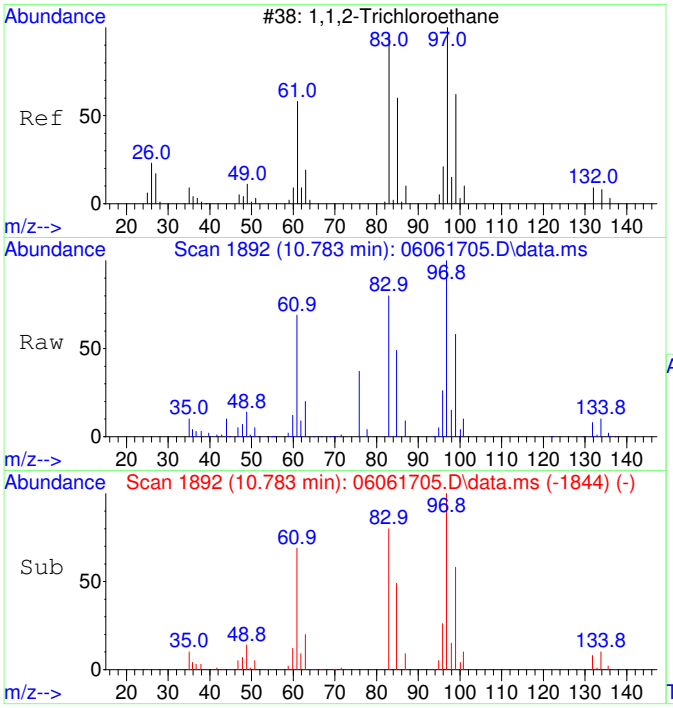


#37
Toluene SCAN
Concen: 5000.00 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 91 Resp: 502553

Ion	Ratio	Lower	Upper
91	100		
92	59.2	29.2	89.2
65	14.3	0.0	44.3

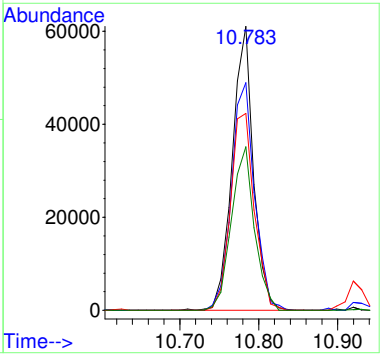


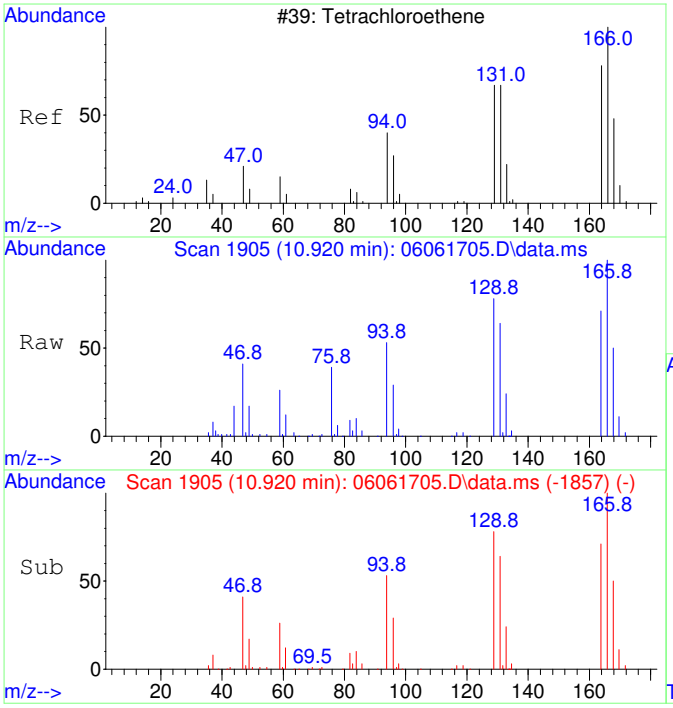


#38
1,1,2-Trichloroethane SCAN
Concen: 5000.00 ug/L
RT: 10.783 min Scan# 1892
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 97 Resp: 113184

Ion	Ratio	Lower	Upper
97	100		
83	87.8	57.8	117.8
61	78.6	48.6	108.6
99	62.7	32.7	92.7

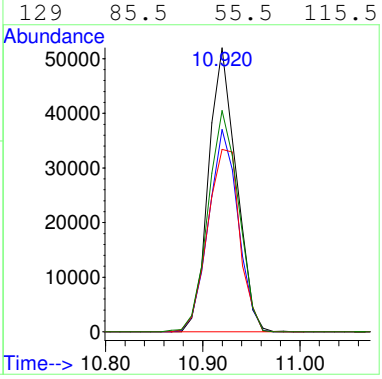


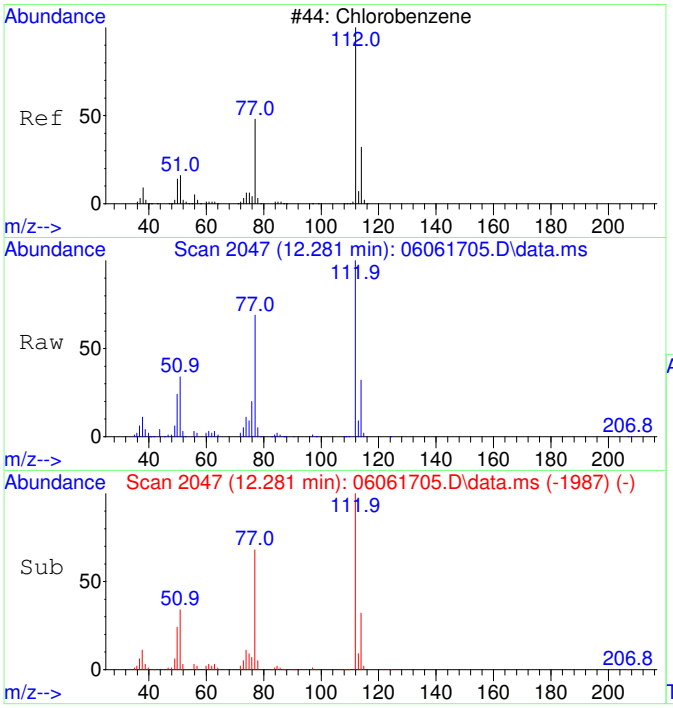


#39
Tetrachloroethene SCAN
Concen: 5000.00 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:166 Resp: 103028

Ion	Ratio	Lower	Upper
166	100		
164	75.7	45.7	105.7
131	74.8	44.8	104.8
129	85.5	55.5	115.5

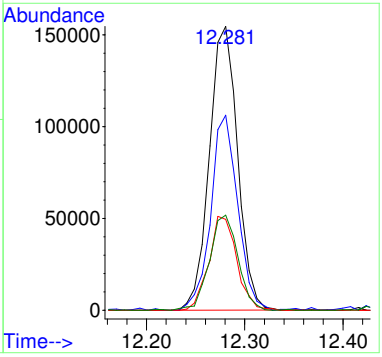


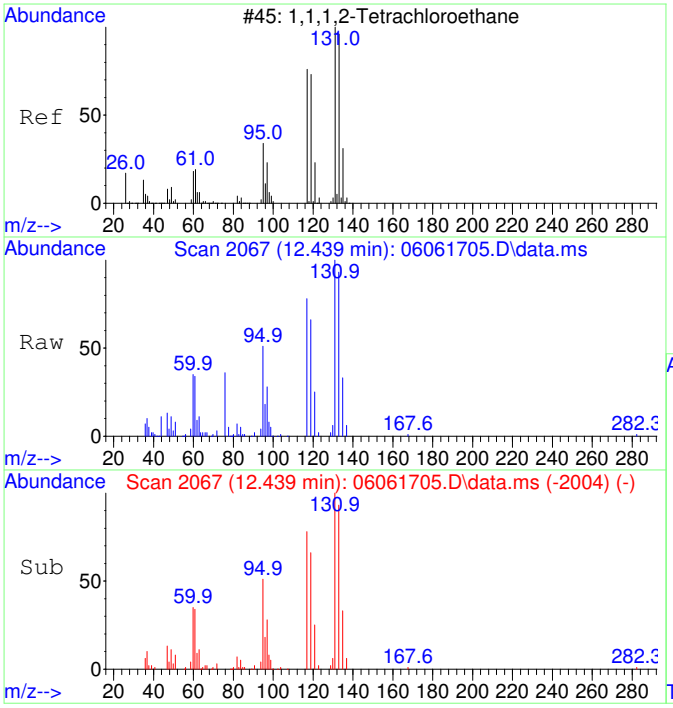


#40
Chlorobenzene SCAN
Concen: 5000.00 ug/L
RT: 12.281 min Scan# 2047
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:112 Resp: 308698

Ion	Ratio	Lower	Upper
112	100		
77	65.1	35.1	95.1
114	32.6	2.6	62.6
51	33.7	3.7	63.7

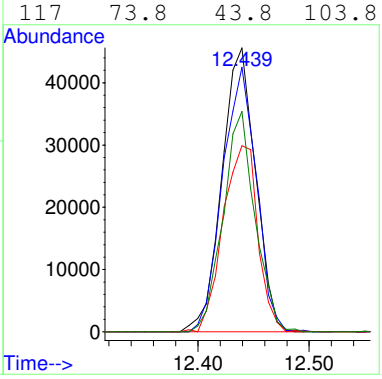


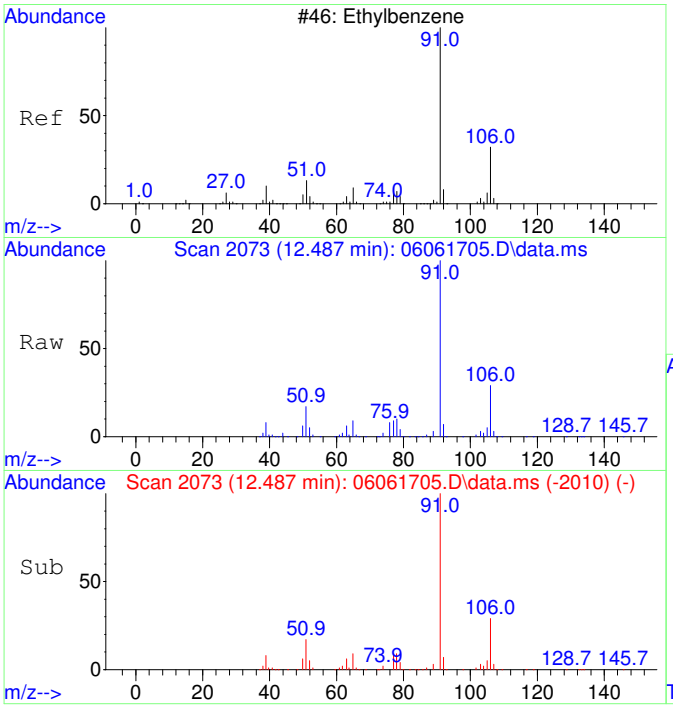


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 5000.00 ug/L
RT: 12.439 min Scan# 2067
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:131 Resp: 96076

Ion	Ratio	Lower	Upper
131	100		
133	93.5	63.5	123.5
119	68.0	38.0	98.0
117	73.8	43.8	103.8

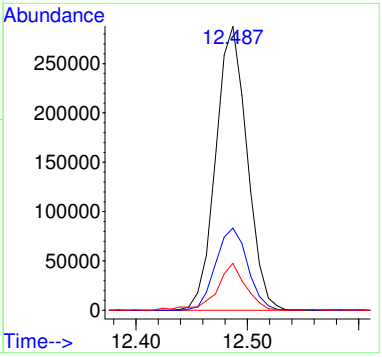


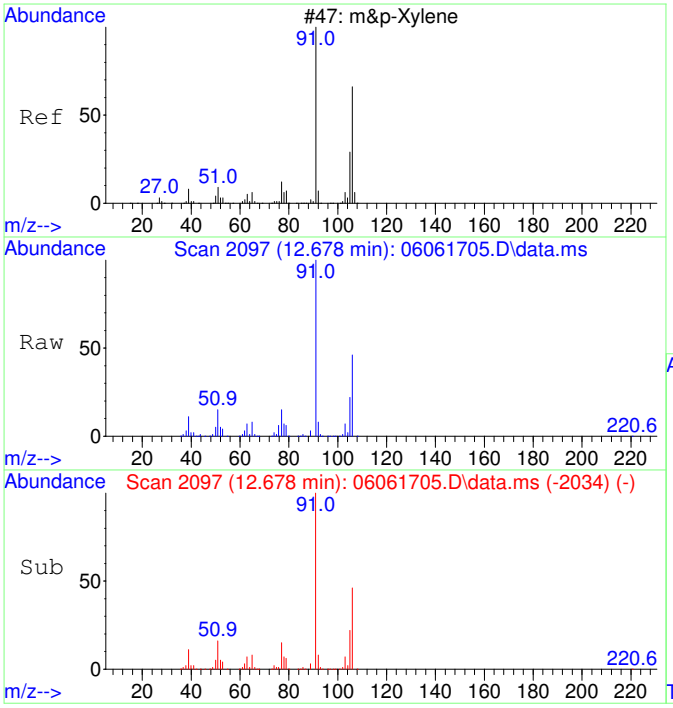


#42
Ethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 91 Resp: 562714

Ion	Ratio	Lower	Upper
91	100		
106	29.8	0.0	59.8
51	15.5	0.0	45.5

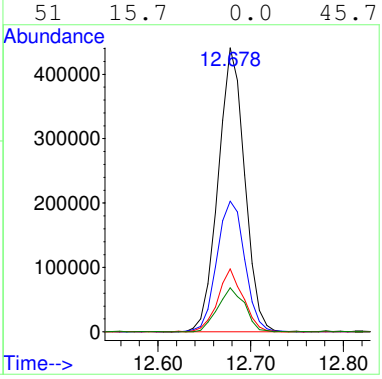


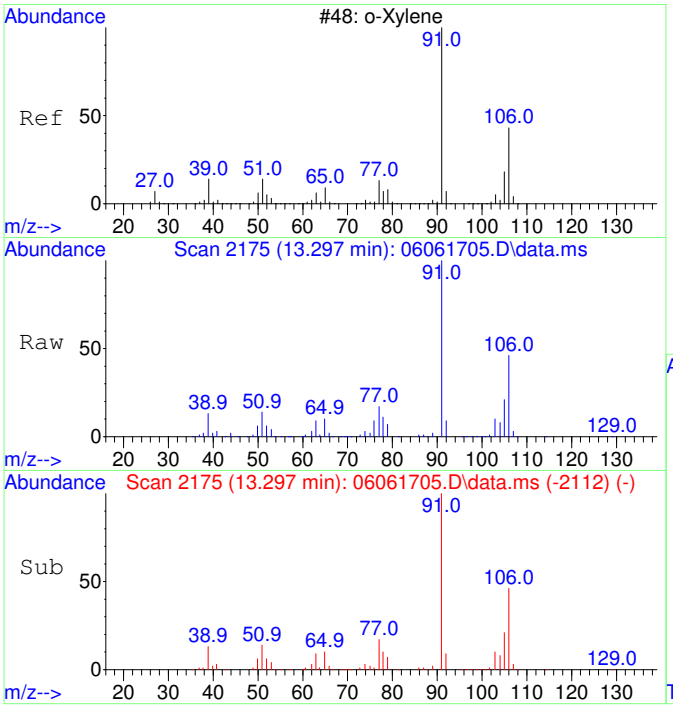


#43
m&p-Xylene SCAN
Concen: 5000.00 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 91 Resp: 878582

Ion	Ratio	Lower	Upper
91	100		
106	48.5	18.5	78.5
105	21.3	0.0	51.3
51	15.7	0.0	45.7

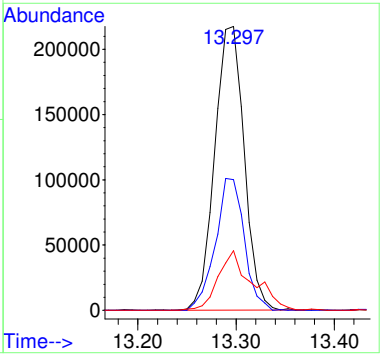


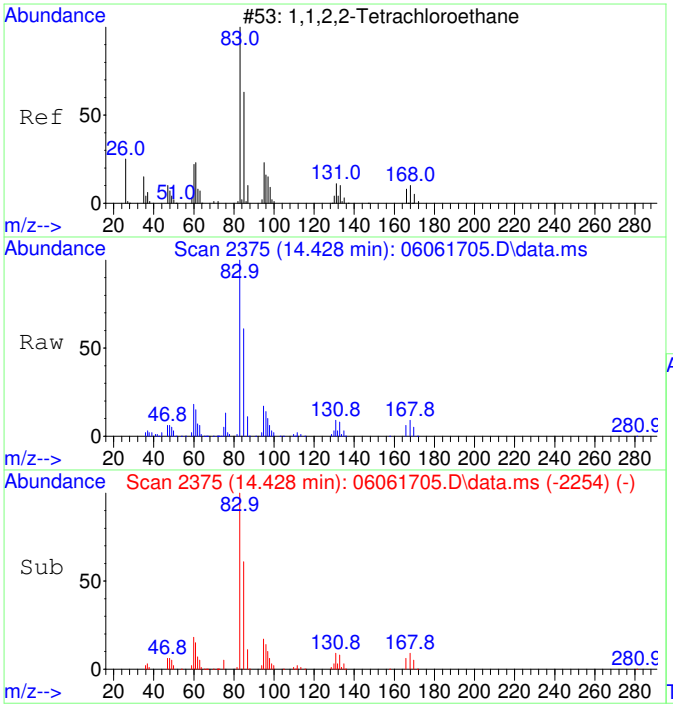


#44
o-Xylene SCAN
Concen: 5000.00 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 91 Resp: 452421

Ion	Ratio	Lower	Upper
91	100		
106	45.5	15.5	75.5
105	24.1	0.0	54.1

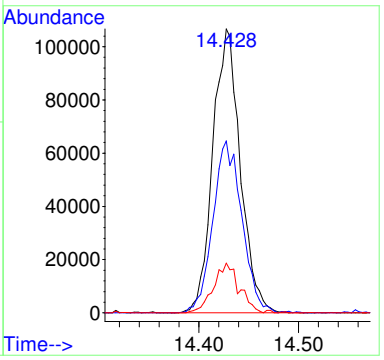


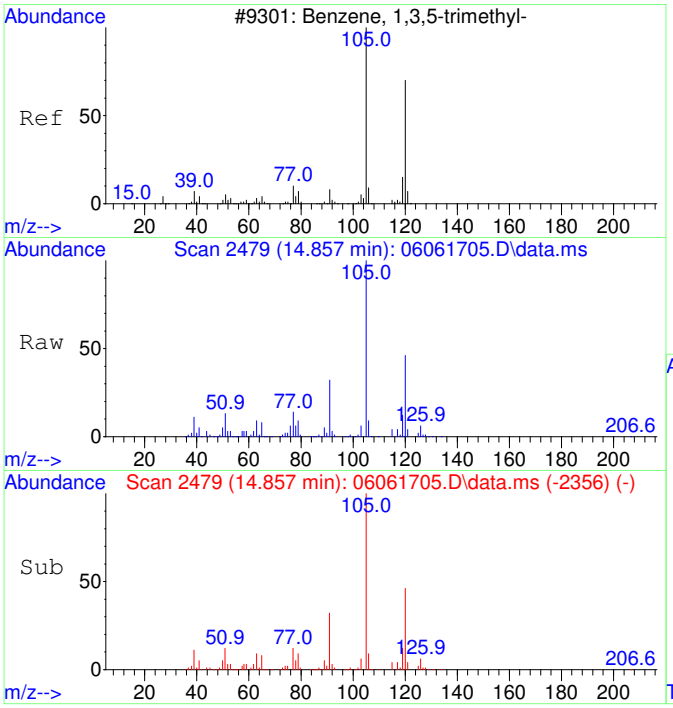


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 5000.00 ug/L
RT: 14.428 min Scan# 2375
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion: 83 Resp: 204656

Ion	Ratio	Lower	Upper
83	100		
85	63.9	33.9	93.9
95	16.3	0.0	46.3

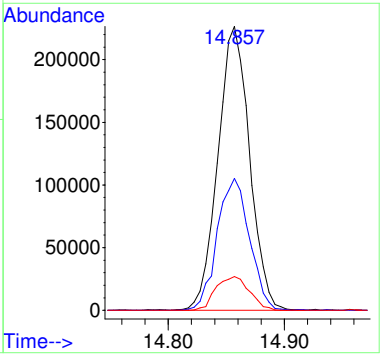


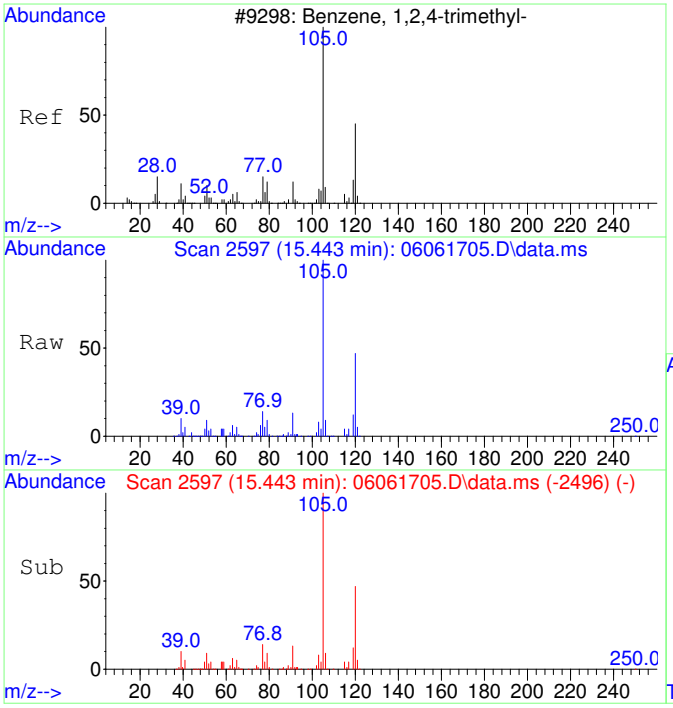


#46
1,3,5-Trimethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 14.857 min Scan# 2479
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:105 Resp: 429148

Ion	Ratio	Lower	Upper
105	100		
120	47.3	17.3	77.3
119	12.7	0.0	42.7

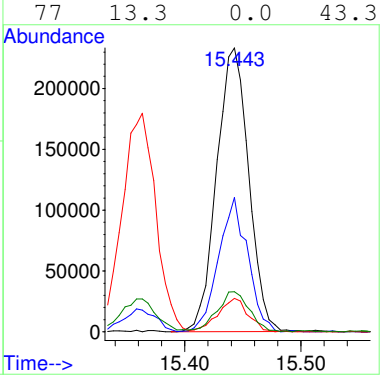


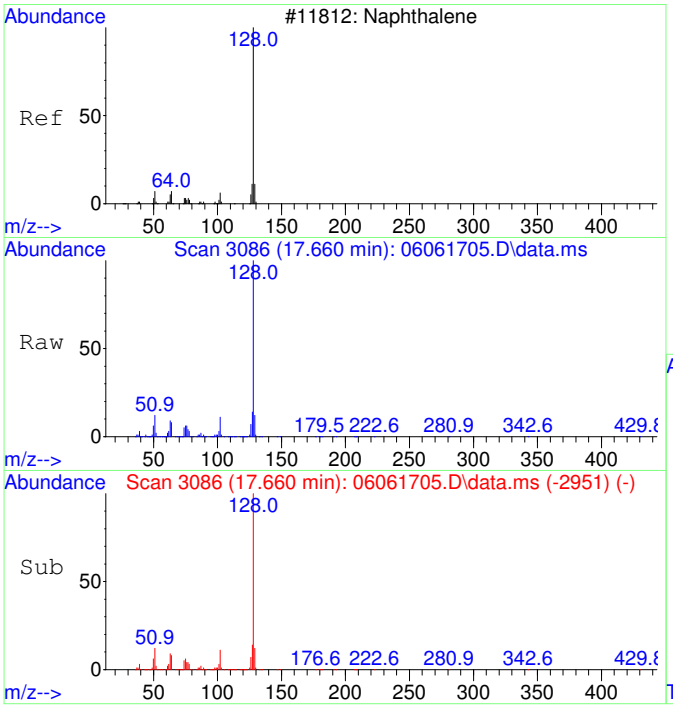


#47
1,2,4-Trimethylbenzene SCAN
Concen: 5000.00 ug/L
RT: 15.443 min Scan# 2597
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:105 Resp: 447213

Ion	Ratio	Lower	Upper
105	100		
120	42.9	12.9	72.9
119	10.5	0.0	40.5
77	13.3	0.0	43.3

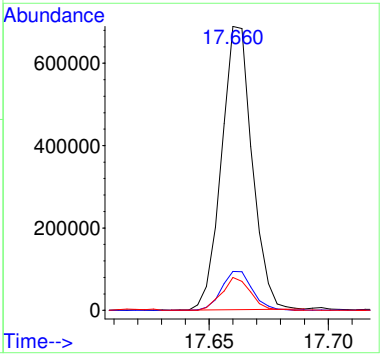




#48
Naphthalene SCAN
Concen: 5000.00 ug/L
RT: 17.660 min Scan# 3086
Delta R.T. 0.000 min
Lab File: 06061705.D
Acq: 6 Jun 2017 12:51

Tgt Ion:128 Resp: 616785

Ion	Ratio	Lower	Upper
128	100		
127	13.9	0.0	43.9
129	11.0	0.0	41.0



S17F020-CAL4

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061706.D
Acq On : 6 Jun 2017 13:15
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL4
Misc : 1717060 1 mg/L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 15:08:11 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration

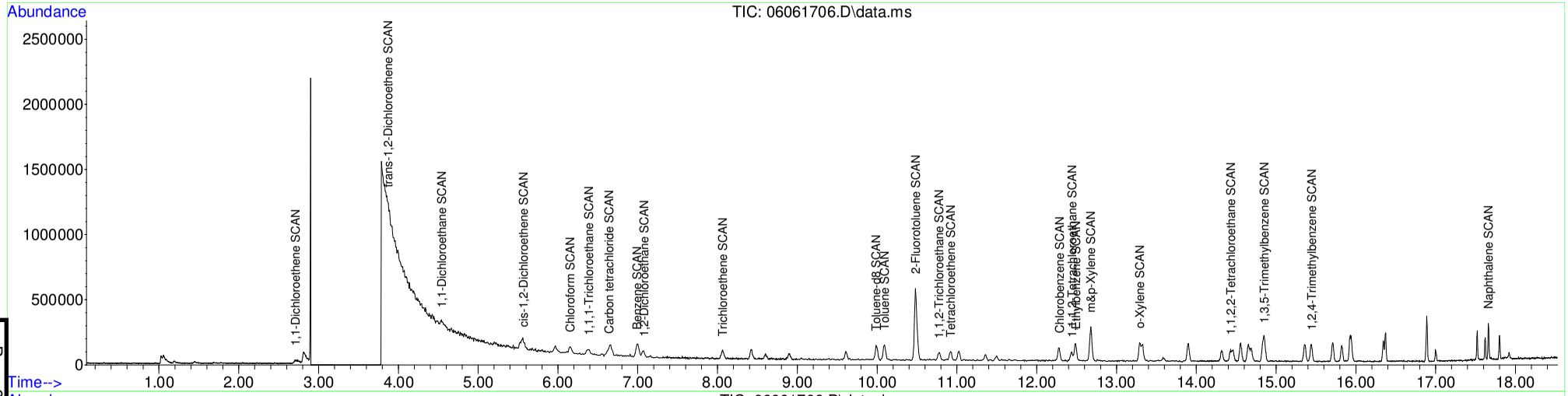
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.481	109	682142	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	117739	1053.94 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery =	21.08%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.711	61	58844	1062.05 ug/L	99
3] trans-1,2-Dichloroethene	3.863	61	62523	1072.28 ug/L	98
4] 1,1-Dichloroethane	4.546	63	67796	1078.68 ug/L	100
5] cis-1,2-Dichloroethene	5.561	61	64797	1078.55 ug/L	100
6] Chloroform	6.152	83	60736	1044.75 ug/L	99
7] 1,1,1-Trichloroethane	6.371	97	56670	1061.39 ug/L	100
8] Carbon tetrachloride	6.638	117	48604	1055.27 ug/L	100
9] Benzene	6.991	78	140991	1041.43 ug/L	100
10] 1,2-Dichloroethane	7.052	62	53804	1072.70 ug/L	99
11] Trichloroethene	8.063	130	36904	1059.93 ug/L	100
13] Toluene	10.082	91	151097	1021.35 ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	33273	1051.78 ug/L	99
15] Tetrachloroethene	10.921	166	40119	1058.05 ug/L	100
16] Chlorobenzene	12.274	112	99882	1062.92 ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.433	131	32031	1038.50 ug/L	100
18] Ethylbenzene	12.481	91	168760	1059.97 ug/L	100
19] m&p-Xylene	12.671	91	266009	2129.80 ug/L	100
20] o-Xylene	13.291	91	137163	1061.88 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	57976	1055.33 ug/L	100
22] 1,3,5-Trimethylbenzene	14.855	105	135222	1060.24 ug/L	100
23] 1,2,4-Trimethylbenzene	15.440	105	137611	1052.48 ug/L	100
24] Naphthalene	17.663	128	207347	1070.83 ug/L	100
25) 2-Fluorotoluene SCAN	10.479	109	403284	4876.18 ug/L	97
26) 1,1-Dichloroethene SCAN	2.713	61	13931	400.34 ug/L	79
27) trans-1,2-Dichloroethe...	3.868	61	44715	1204.07 ug/L	92
28) 1,1-Dichloroethane SCAN	4.545	63	51579	1218.21 ug/L	85
29) cis-1,2-Dichloroethene...	5.567	61	48342	1128.43 ug/L	95
30) Chloroform SCAN	6.151	83	43416	1123.87 ug/L	97
31) 1,1,1-Trichloroethane ...	6.382	97	33546	1055.20 ug/L	86
32) Carbon tetrachloride SCAN	6.637	117	32103	1096.93 ug/L	93
33) Benzene SCAN	6.990	78	104441	1192.87 ug/L	96
34) 1,2-Dichloroethane SCAN	7.075	62	43672	1156.01 ug/L	93
35) Trichloroethene SCAN	8.066	130	24511	1208.90 ug/L	91
36) Toluene-d8 SCAN	9.986	98	76649	1122.94 ug/L	95
37) Toluene SCAN	10.091	91	100416	1103.00 ug/L	95
38) 1,1,2-Trichloroethane ...	10.773	97	23034	1123.41 ug/L	91
39) Tetrachloroethene SCAN	10.920	166	21941	1175.59 ug/L	97
40) Chlorobenzene SCAN	12.281	112	55727	996.52 ug/L	90
41) 1,1,1,2-Tetrachloroeth...	12.440	131	18819	1081.28 ug/L	89
42) Ethylbenzene SCAN	12.487	91	109106	1070.33 ug/L	99
43) m&p-Xylene SCAN	12.678	91	164722	1034.96 ug/L	99
44) o-Xylene SCAN	13.290	91	92339	1126.67 ug/L	99
45) 1,1,2,2-Tetrachloroeth...	14.431	83	41980	1132.33 ug/L	99
46) 1,3,5-Trimethylbenzene...	14.853	105	88940	1144.05 ug/L	93
47) 1,2,4-Trimethylbenzene...	15.444	105	78736	971.88 ug/L	95
48) Naphthalene SCAN	17.661	128	103928	930.15 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061706.D
Acq On : 6 Jun 2017 13:15
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL4
Misc : 1717060 1 mg/L
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 15:08:11 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration



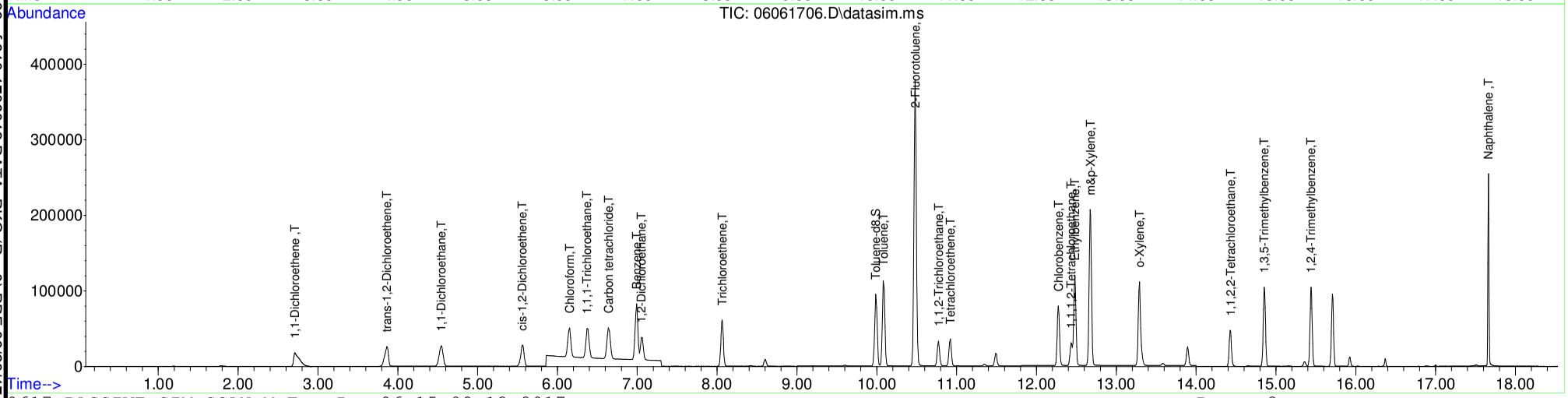


Table of Contents

S17F020-CAL5

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061707.D
Acq On : 6 Jun 2017 13:39
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL5
Misc : 1717061 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 06 15:08:37 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration

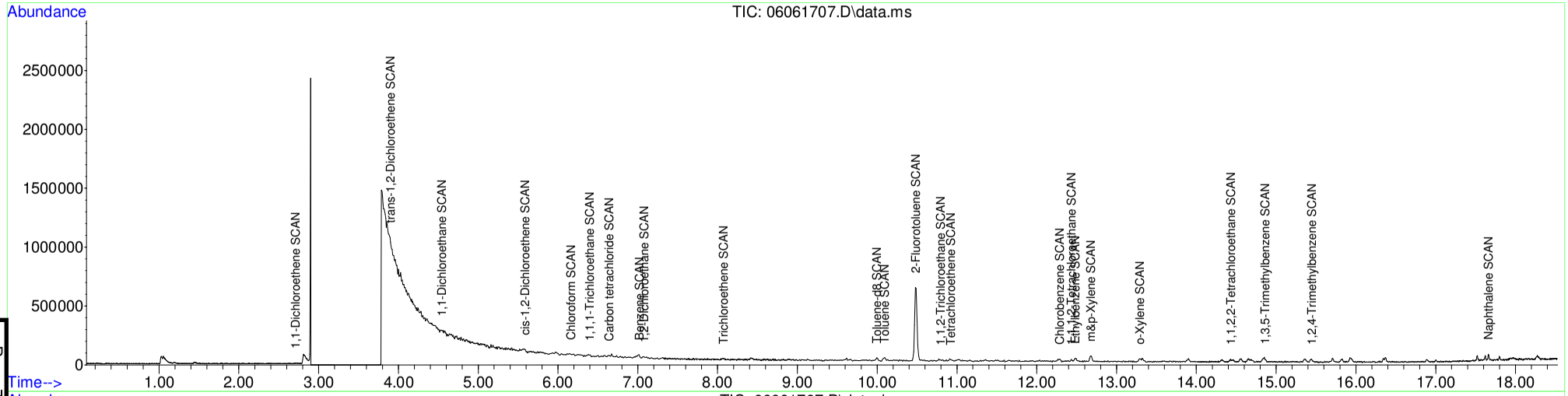
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.480	109	849562	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	9.987	98	21282	152.96	ug/L		0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery =	3.06%#			
Target Compounds							Qvalue
2] 1,1-Dichloroethene	2.707	61	9898	143.44	ug/L		98
3] trans-1,2-Dichloroethene	3.889	61	10564	145.47	ug/L		97
4] 1,1-Dichloroethane	4.559	63	11332	144.77	ug/L		100
5] cis-1,2-Dichloroethene	5.574	61	10912	145.84	ug/L		99
6] Chloroform	6.151	83	10842	149.75	ug/L		99
7] 1,1,1-Trichloroethane	6.383	97	9854	148.19	ug/L		100
8] Carbon tetrachloride	6.650	117	8397	146.38	ug/L		98
9] Benzene	7.003	78	29070	172.41	ug/L		99
10] 1,2-Dichloroethane	7.064	62	9144	146.38	ug/L		96
11] Trichloroethene	8.067	130	6593	152.04	ug/L		99
13] Toluene	10.092	91	28707	155.81	ug/L		100
14] 1,1,2-Trichloroethane	10.774	97	5976	151.68	ug/L		99
15] Tetrachloroethene	10.921	166	7214	152.76	ug/L		97
16] Chlorobenzene	12.274	112	17878	152.76	ug/L		99
17] 1,1,1,2-Tetrachloroethane	12.432	131	5745	149.56	ug/L		98
18] Ethylbenzene	12.480	91	30016	151.38	ug/L		99
19] m&p-Xylene	12.679	91	46809	300.92	ug/L		99
20] o-Xylene	13.290	91	24405	151.70	ug/L		100
21] 1,1,2,2-Tetrachloroethane	14.428	83	10279	150.24	ug/L		100
22] 1,3,5-Trimethylbenzene	14.853	105	23610	148.64	ug/L		100
23] 1,2,4-Trimethylbenzene	15.439	105	24195	148.58	ug/L		100
24] Naphthalene	17.662	128	35064	145.40	ug/L		99
25) 2-Fluorotoluene SCAN	10.479	109	513248	4982.82	ug/L		95
26) 1,1-Dichloroethene SCAN	2.709	61	1505	34.73	ug/L	#	65
27) trans-1,2-Dichloroethe...	3.894	61	4229	91.44	ug/L		88
28) 1,1-Dichloroethane SCAN	4.544	63	2836	53.78	ug/L	#	46
29) cis-1,2-Dichloroethene...	5.586	61	8552	160.29	ug/L	#	62
30) Chloroform SCAN	6.162	83	7732	160.71	ug/L	#	62
31) 1,1,1-Trichloroethane ...	6.393	97	6279	158.59	ug/L	#	54
32) Carbon tetrachloride SCAN	6.637	117	8143	223.41	ug/L	#	60
33) Benzene SCAN	7.014	78	24647	226.03	ug/L	#	79
34) 1,2-Dichloroethane SCAN	7.075	62	4123	87.63	ug/L	#	7
35) Trichloroethene SCAN	8.071	130	4178	165.45	ug/L		77
36) Toluene-d8 SCAN	9.996	98	12982	152.71	ug/L		91
37) Toluene SCAN	10.090	91	19137	168.78	ug/L		91
38) 1,1,2-Trichloroethane ...	10.794	97	4929	193.02	ug/L	#	11
39) Tetrachloroethene SCAN	10.919	166	3464	149.02	ug/L	#	76
40) Chlorobenzene SCAN	12.280	112	10483	150.52	ug/L	#	41
41) 1,1,1,2-Tetrachloroeth...	12.431	131	3244	149.66	ug/L		88
42) Ethylbenzene SCAN	12.479	91	20480	161.32	ug/L		94
43) m&p-Xylene SCAN	12.677	91	33240	167.69	ug/L		95
44) o-Xylene SCAN	13.289	91	16521	161.86	ug/L	#	53
45) 1,1,2,2-Tetrachloroeth...	14.431	83	7125	154.31	ug/L		86
46) 1,3,5-Trimethylbenzene...	14.857	105	15763	162.80	ug/L		94
47) 1,2,4-Trimethylbenzene...	15.442	105	15785	156.45	ug/L	#	56
48) Naphthalene SCAN	17.661	128	22682	163.00	ug/L		98

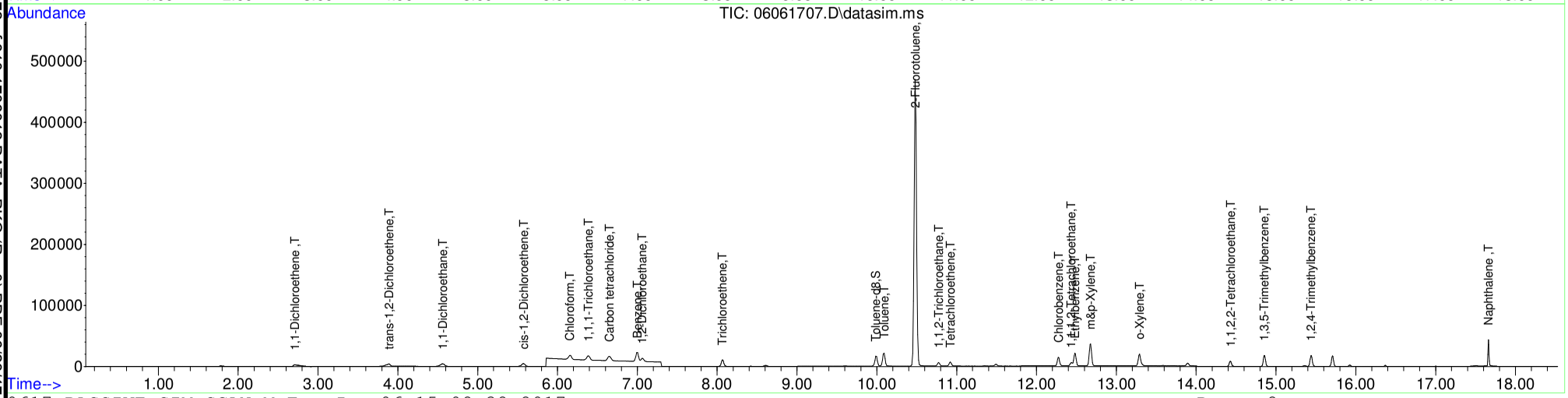
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061707.D
Acq On : 6 Jun 2017 13:39
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL5
Misc : 1717061 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 06 15:08:37 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration





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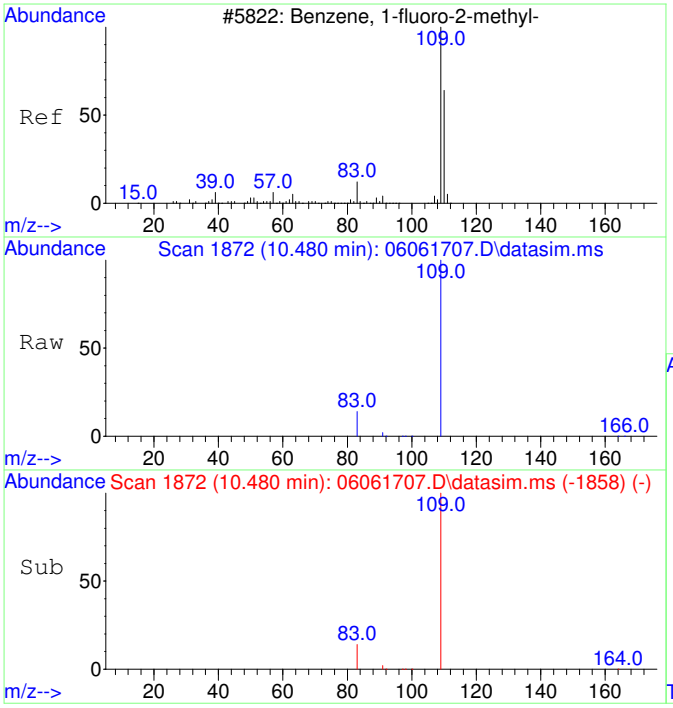
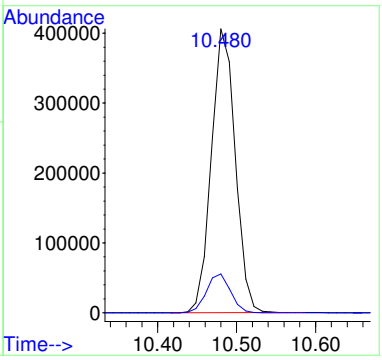
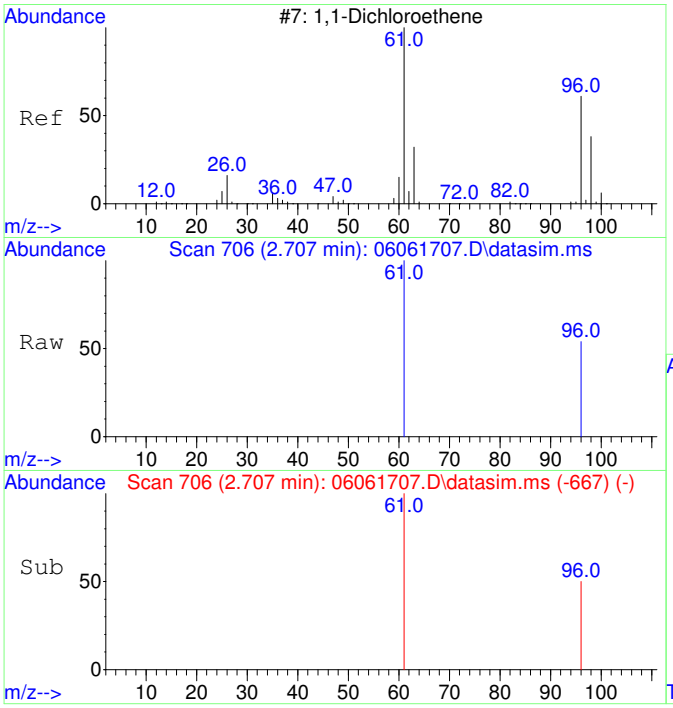


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:109 Resp: 849562

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.4

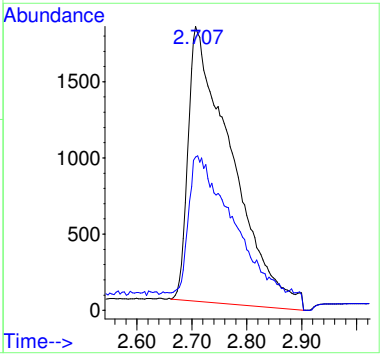




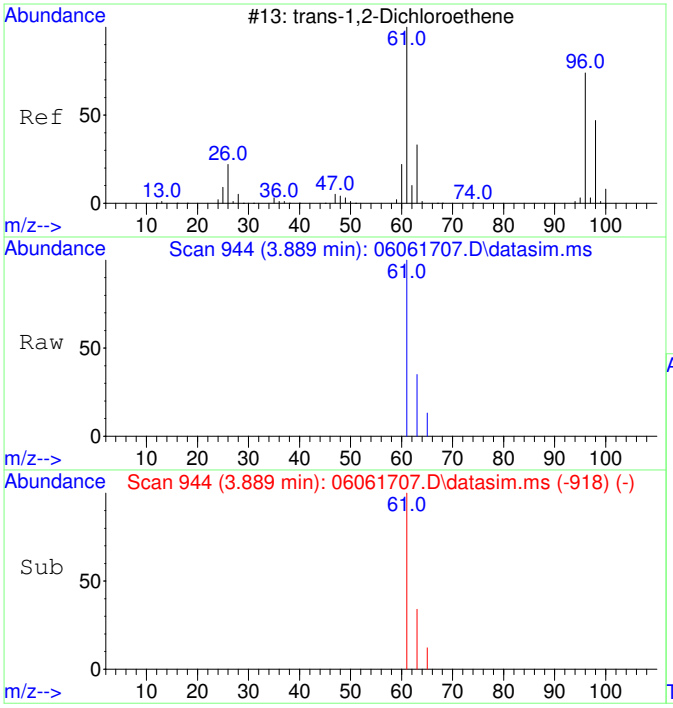
#2
1,1-Dichloroethene
Concen: 143.44 ug/L
RT: 2.707 min Scan# 706
Delta R.T. -0.004 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 61 Resp: 9898

Ion	Ratio	Lower	Upper
61	100		
96	53.4	21.8	81.8



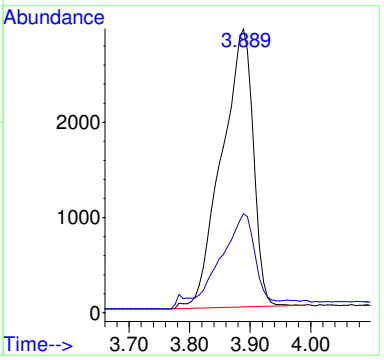
Before MI:
IMPROPER
BASELINE

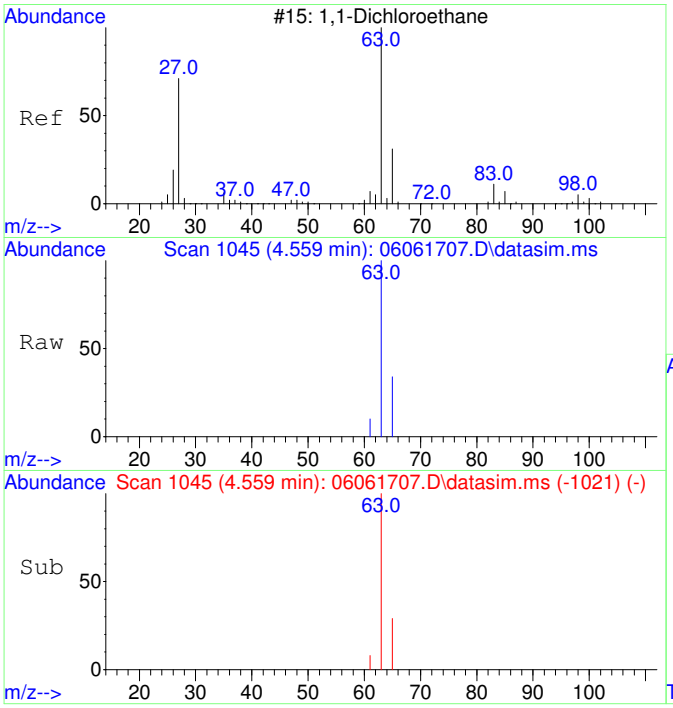


#3
trans-1,2-Dichloroethene
Concen: 145.47 ug/L
RT: 3.889 min Scan# 944
Delta R.T. 0.020 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 61 Resp: 10564

Ion	Ratio	Lower	Upper
61	100		
63	29.3	1.0	61.0

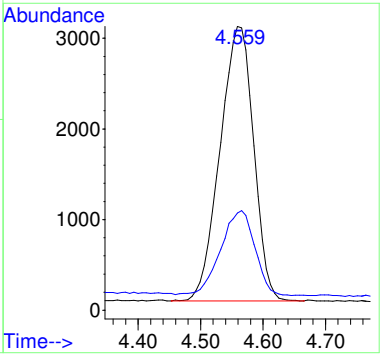


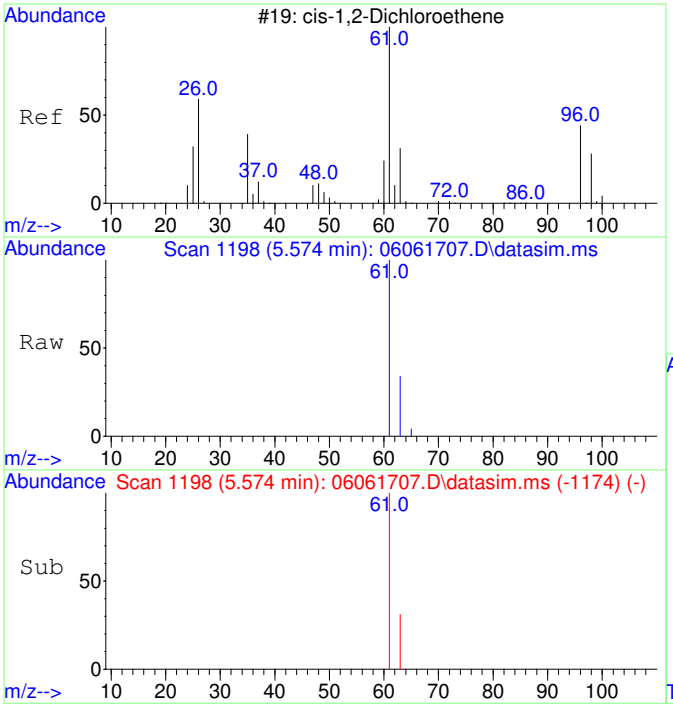


#4
1,1-Dichloroethane
Concen: 144.77 ug/L
RT: 4.559 min Scan# 1045
Delta R.T. 0.006 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 63 Resp: 11332

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5

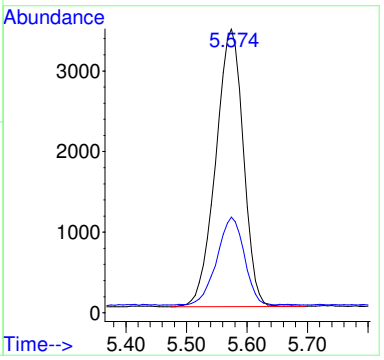


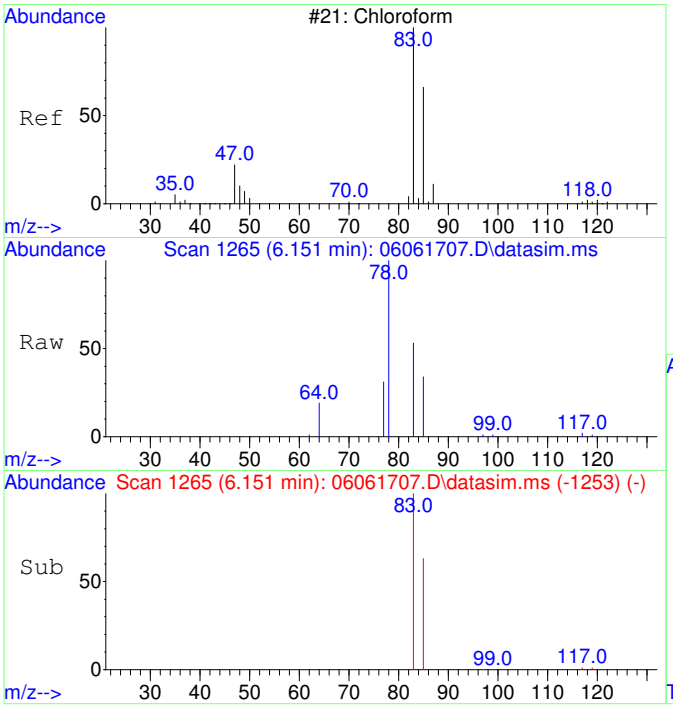


#5
cis-1,2-Dichloroethene
Concen: 145.84 ug/L
RT: 5.574 min Scan# 1198
Delta R.T. 0.006 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 61 Resp: 10912

Ion	Ratio	Lower	Upper
61	100		
63	31.3	0.9	60.9

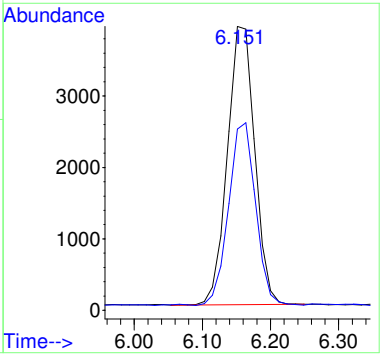


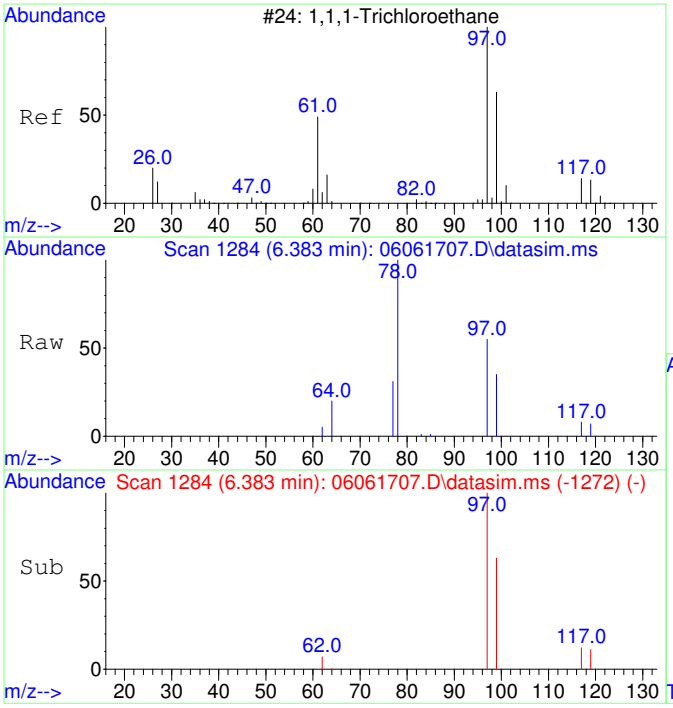


#6
Chloroform
Concen: 149.75 ug/L
RT: 6.151 min Scan# 1265
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 83 Resp: 10842

Ion	Ratio	Lower	Upper
83	100		
85	64.8	33.7	93.7

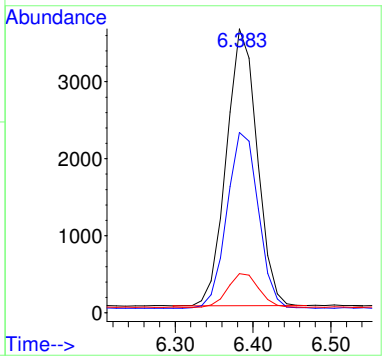


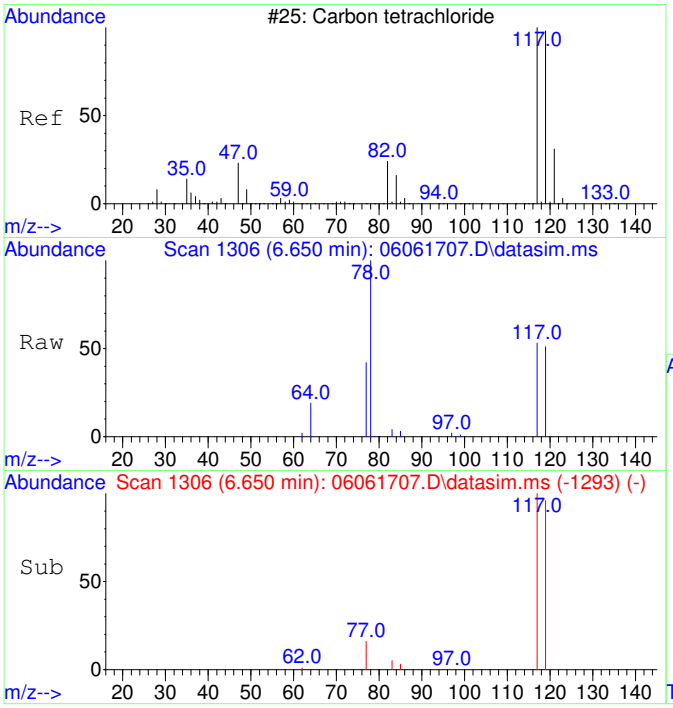


#7
1,1,1-Trichloroethane
Concen: 148.19 ug/L
RT: 6.383 min Scan# 1284
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 97 Resp: 9854

Ion	Ratio	Lower	Upper
97	100		
99	64.4	34.3	94.3
117	12.4	0.0	42.3

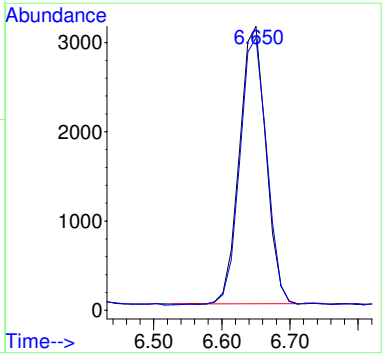


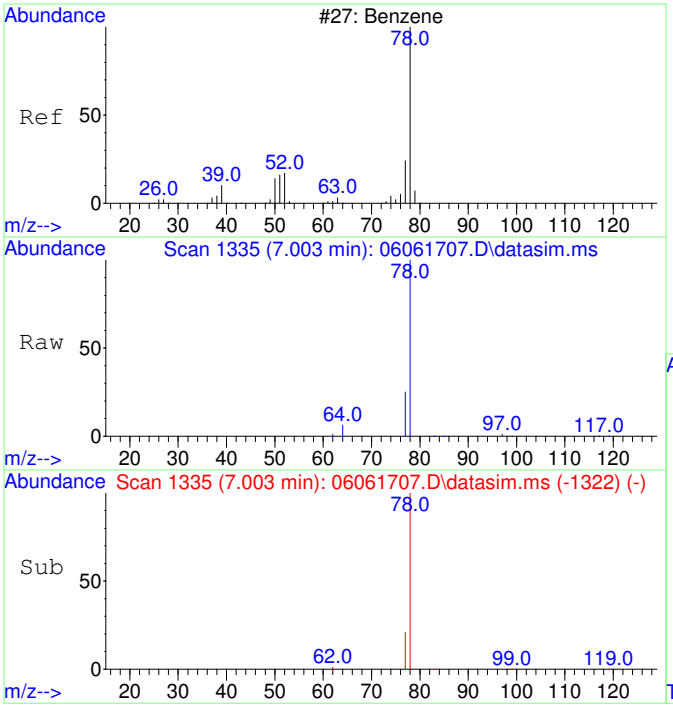


#8
Carbon tetrachloride
Concen: 146.38 ug/L
RT: 6.650 min Scan# 1306
Delta R.T. 0.012 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:117 Resp: 8397

Ion	Ratio	Lower	Upper
117	100		
119	97.2	65.4	125.4

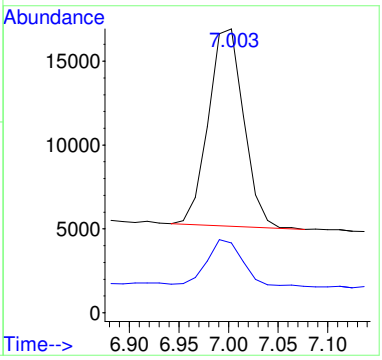


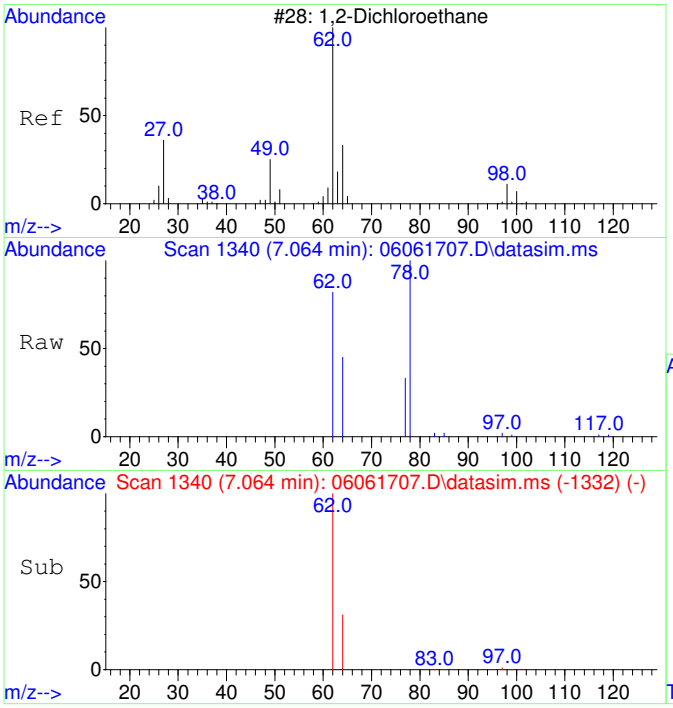


#9
Benzene
Concen: 172.41 ug/L
RT: 7.003 min Scan# 1335
Delta R.T. 0.012 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 78 Resp: 29070

Ion	Ratio	Lower	Upper
78	100		
77	22.7	0.0	53.0

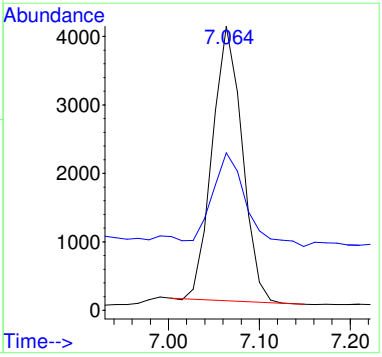


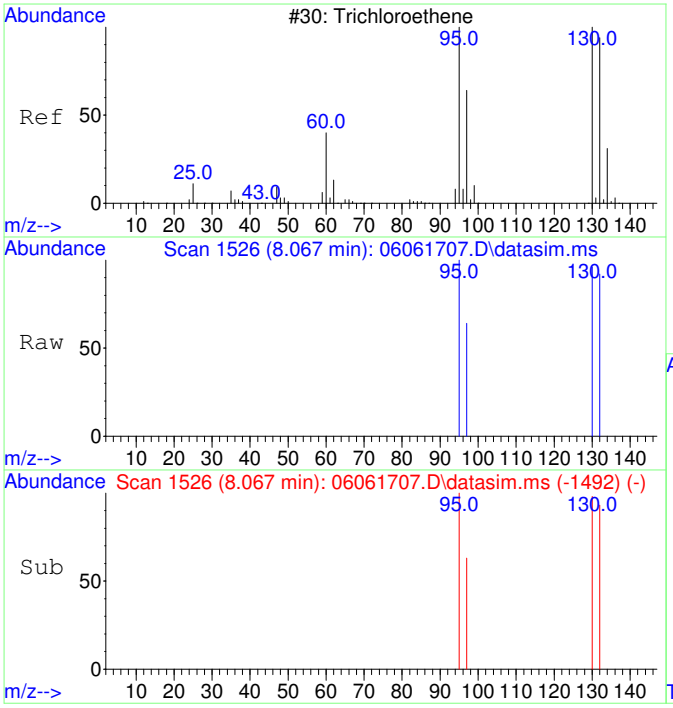


#10
1,2-Dichloroethane
Concen: 146.38 ug/L
RT: 7.064 min Scan# 1340
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 62 Resp: 9144

Ion	Ratio	Lower	Upper
62	100		
64	35.1	2.6	62.6

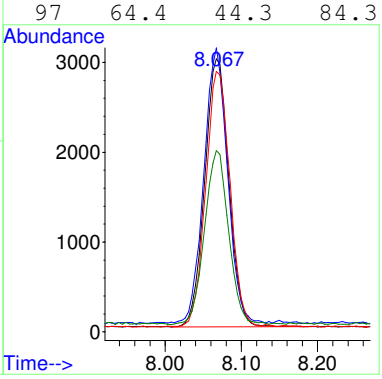


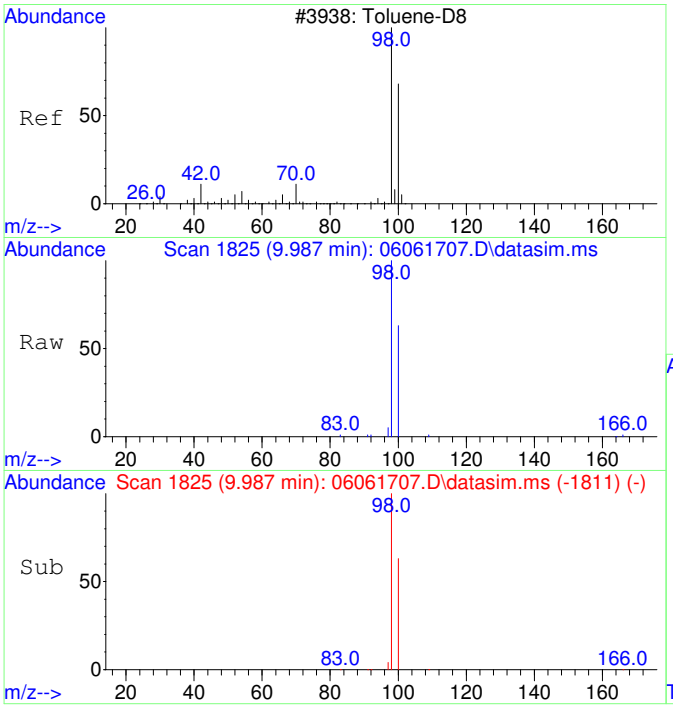


#11
Trichloroethene
Concen: 152.04 ug/L
RT: 8.067 min Scan# 1526
Delta R.T. 0.004 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:130 Resp: 6593

Ion	Ratio	Lower	Upper
130	100		
95	99.8	69.8	129.8
132	94.6	76.4	116.4
97	64.4	44.3	84.3

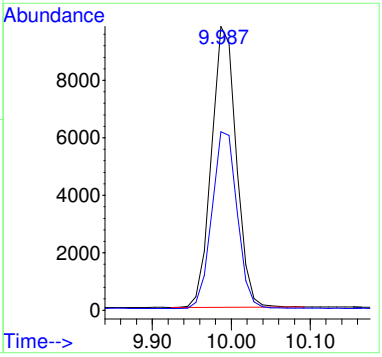


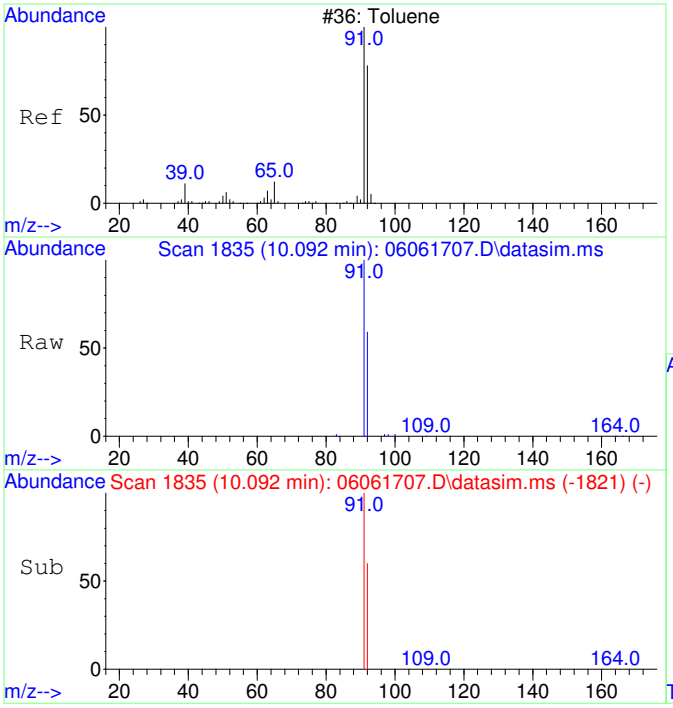


#12
Toluene-d8
Concen: 152.96 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 98 Resp: 21282

Ion	Ratio	Lower	Upper
98	100		
100	64.1	34.2	94.2

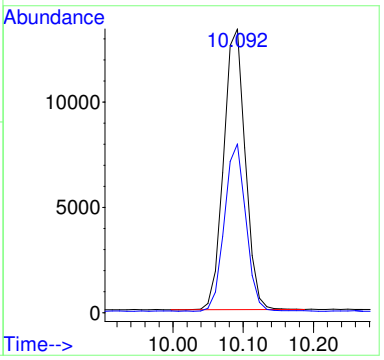


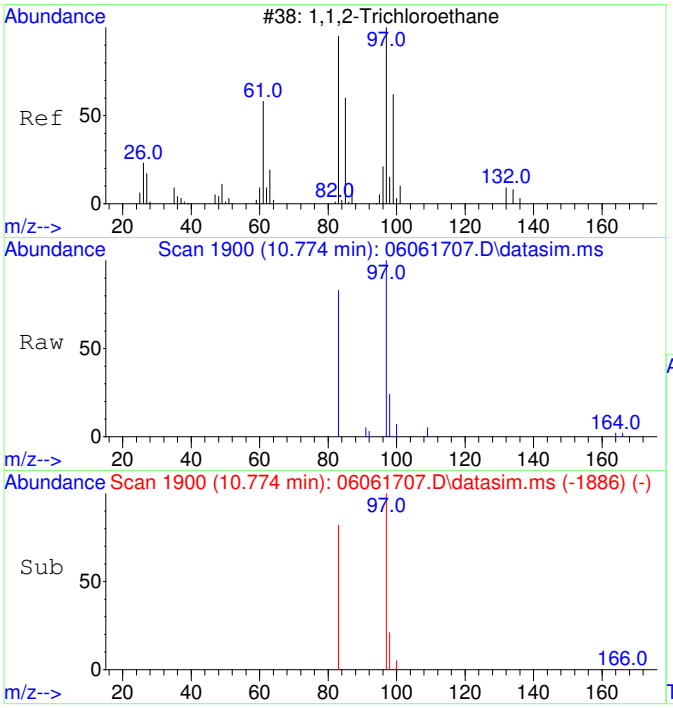


#13
Toluene
Concen: 155.81 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 28707

Ion	Ratio	Lower	Upper
91	100		
92	58.5	28.4	88.4

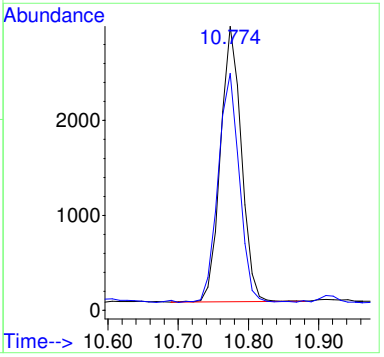


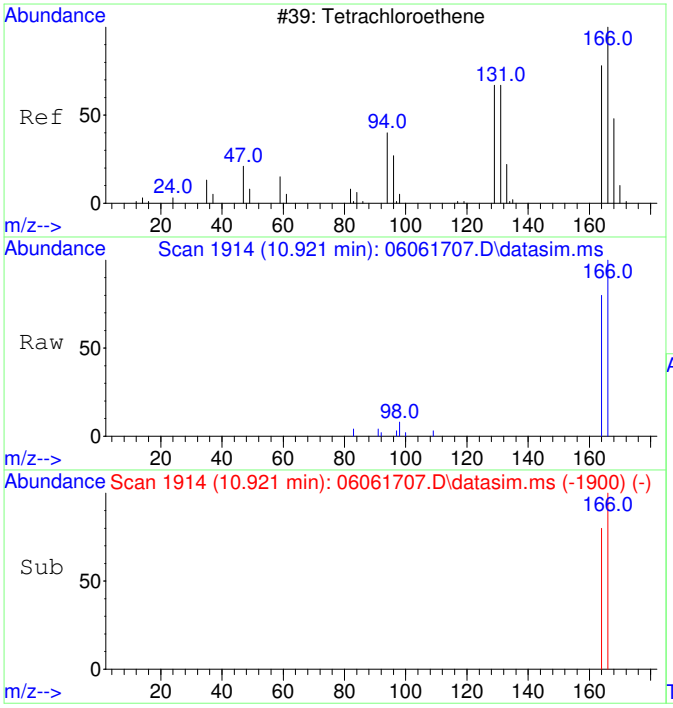


#14
1,1,2-Trichloroethane
Concen: 151.68 ug/L
RT: 10.774 min Scan# 1900
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 97 Resp: 5976

Ion	Ratio	Lower	Upper
97	100		
83	83.3	54.5	114.5

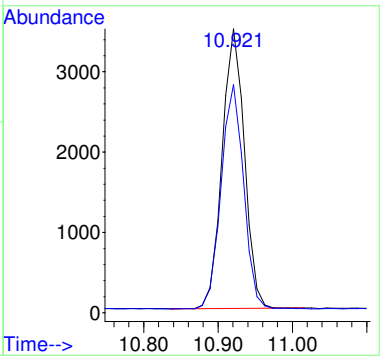


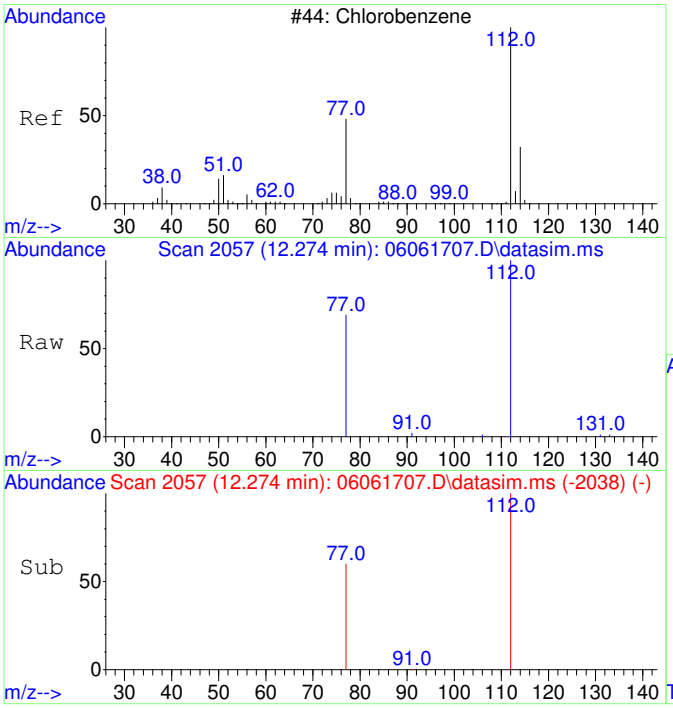


#15
Tetrachloroethene
Concen: 152.76 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:166 Resp: 7214

Ion	Ratio	Lower	Upper
166	100		
164	80.5	48.2	108.2

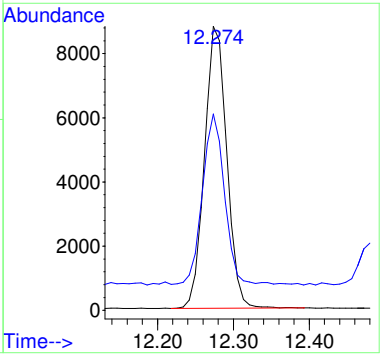


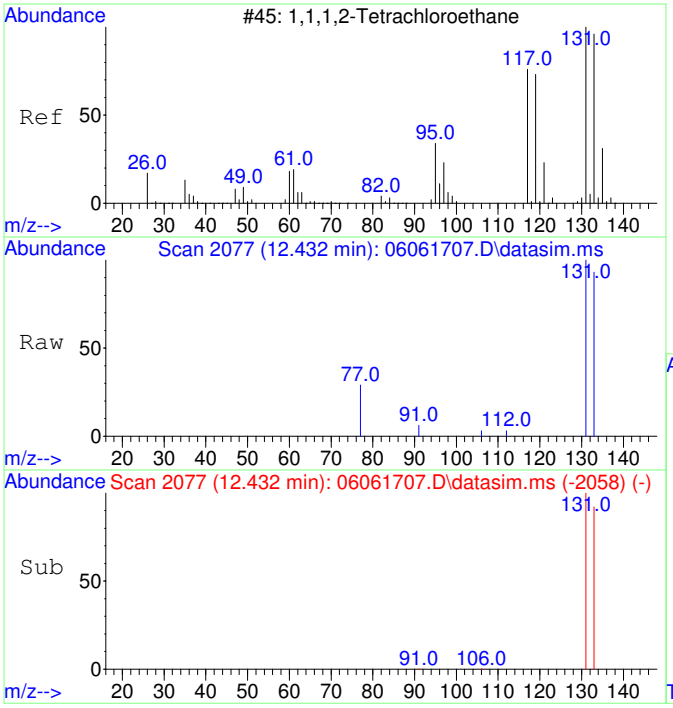


#16
Chlorobenzene
Concen: 152.76 ug/L
RT: 12.274 min Scan# 2057
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:112 Resp: 17878

Ion	Ratio	Lower	Upper
112	100		
77	59.8	28.9	88.9

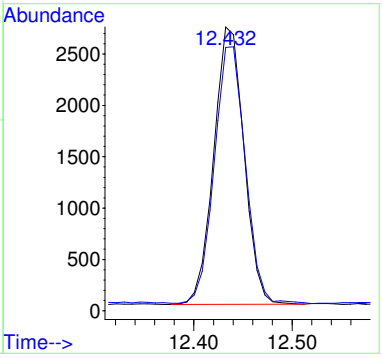


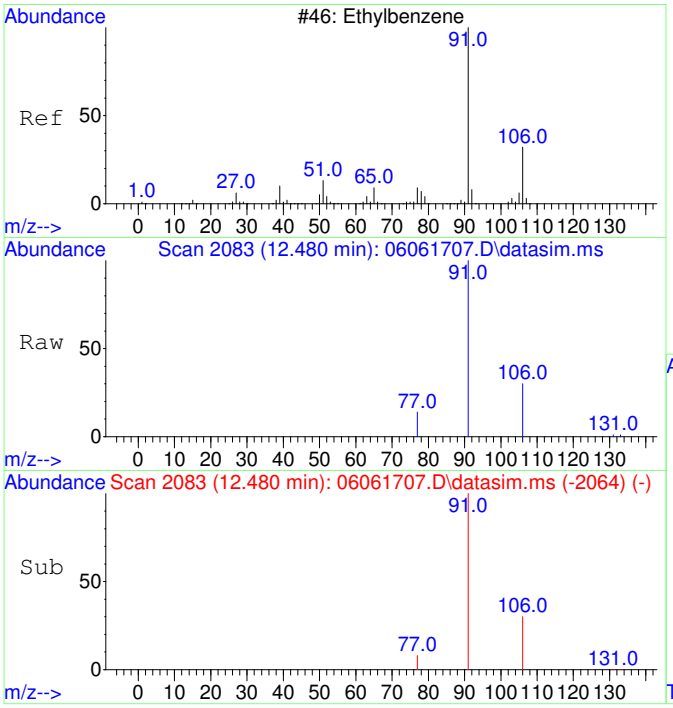


#17
1,1,1,2-Tetrachloroethane
Concen: 149.56 ug/L
RT: 12.432 min Scan# 2077
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:131 Resp: 5745

Ion	Ratio	Lower	Upper
131	100		
133	93.4	65.2	125.2

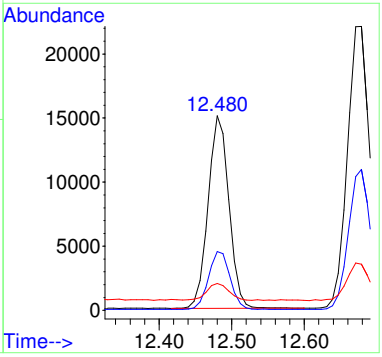


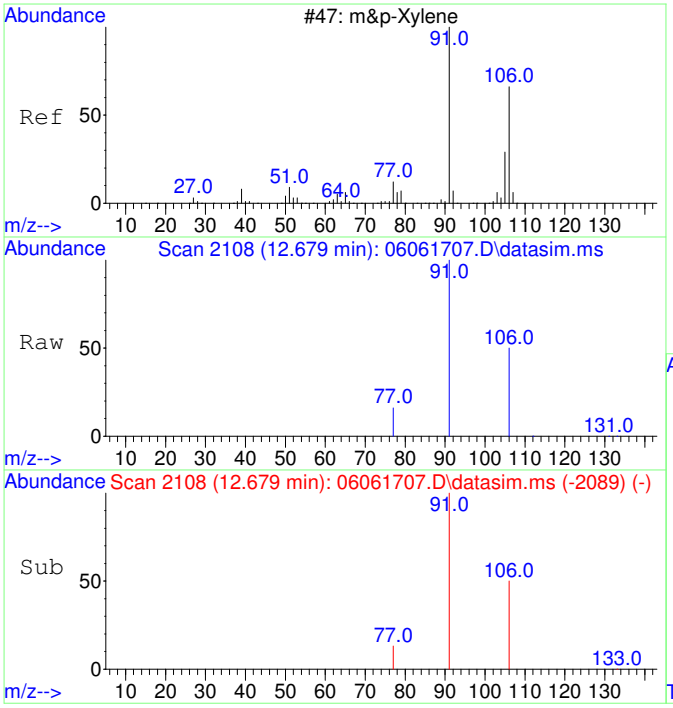


#18
Ethylbenzene
Concen: 151.38 ug/L
RT: 12.480 min Scan# 2083
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 30016

Ion	Ratio	Lower	Upper
91	100		
106	30.8	1.2	61.2
77	9.1	0.0	38.6

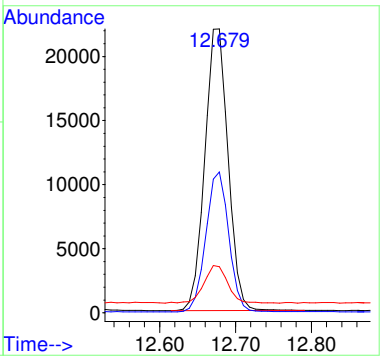


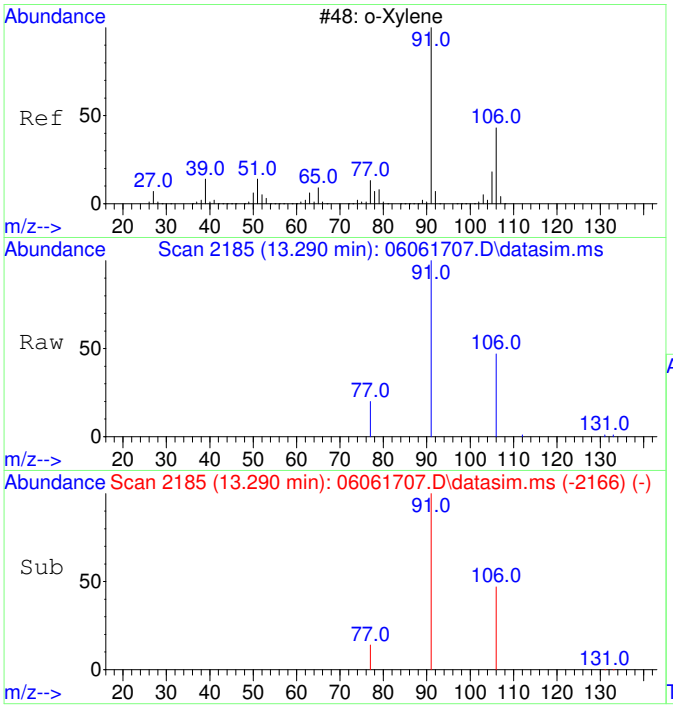


#19
m&p-Xylene
Concen: 300.92 ug/L
RT: 12.679 min Scan# 2108
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 46809

Ion	Ratio	Lower	Upper
91	100		
106	48.8	18.4	78.4
77	13.4	0.0	43.0

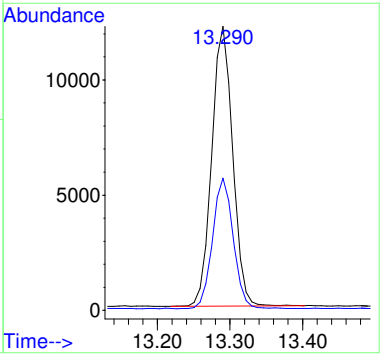


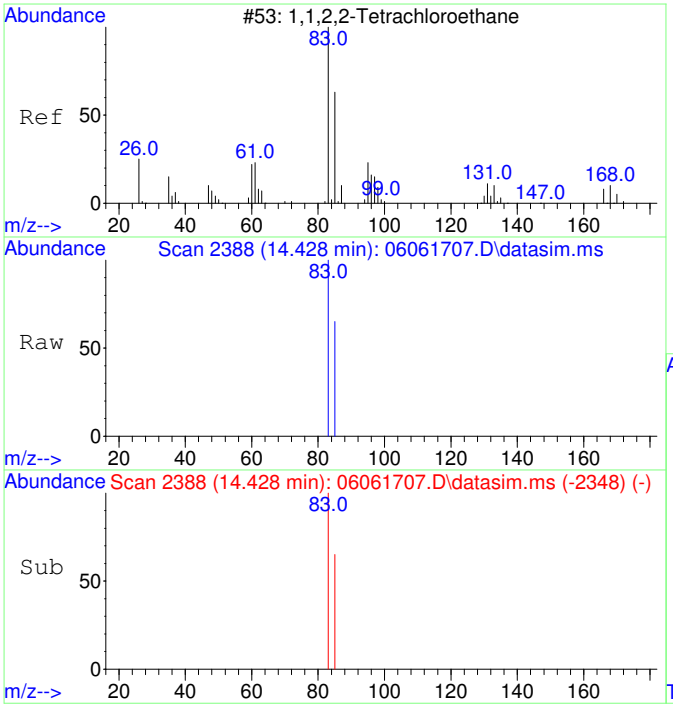


#20
o-Xylene
Concen: 151.70 ug/L
RT: 13.290 min Scan# 2185
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 24405

Ion	Ratio	Lower	Upper
91	100		
106	46.0	16.0	76.0

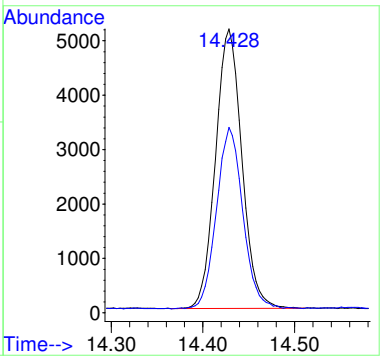


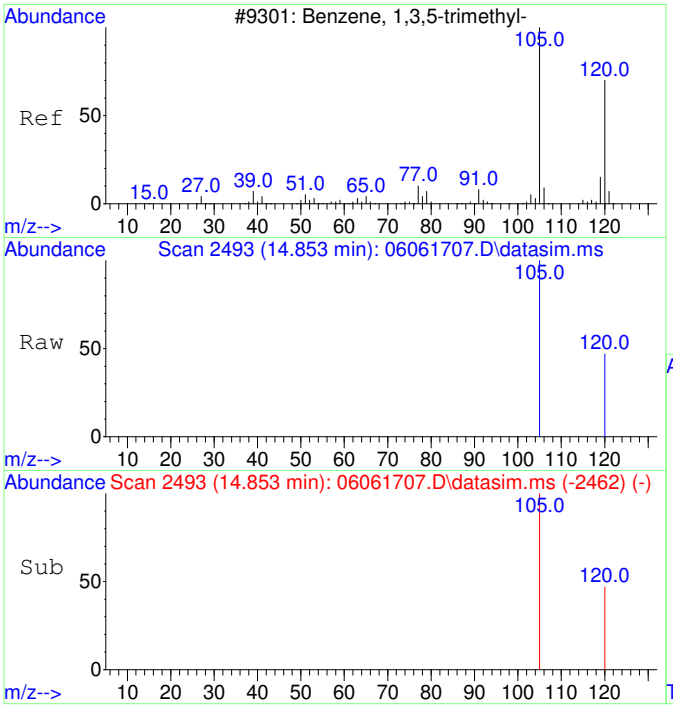


#21
1,1,2,2-Tetrachloroethane
Concen: 150.24 ug/L
RT: 14.428 min Scan# 2388
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 83 Resp: 10279

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.2	94.2

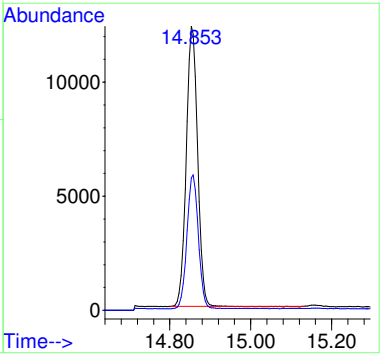


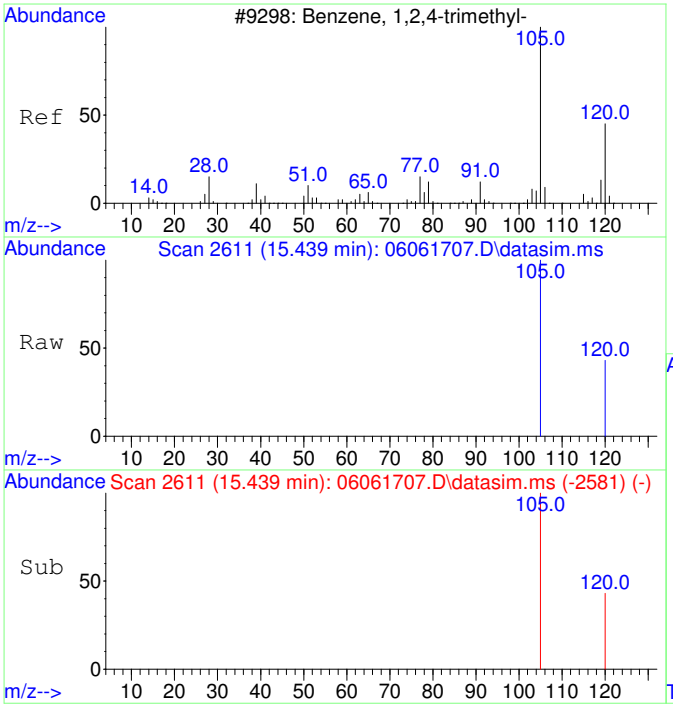


#22
1,3,5-Trimethylbenzene
Concen: 148.64 ug/L
RT: 14.853 min Scan# 2493
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:105 Resp: 23610

Ion	Ratio	Lower	Upper
105	100		
120	48.3	18.0	78.0

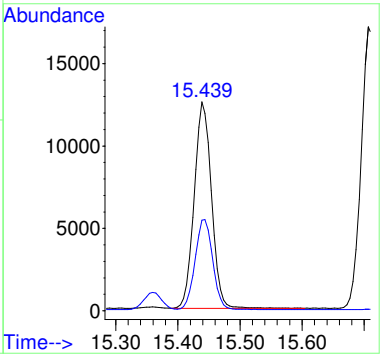


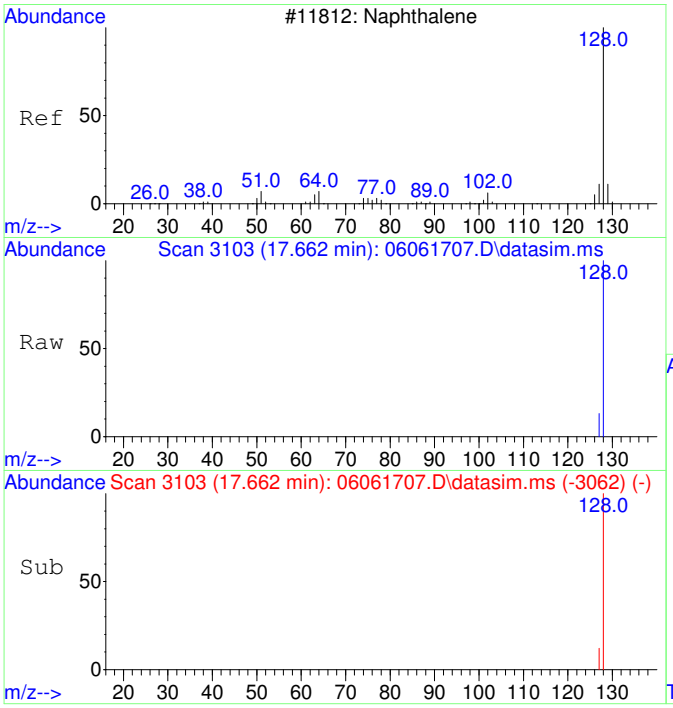


#23
1,2,4-Trimethylbenzene
Concen: 148.58 ug/L
RT: 15.439 min Scan# 2611
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:105 Resp: 24195

Ion	Ratio	Lower	Upper
105	100		
120	44.2	14.4	74.4

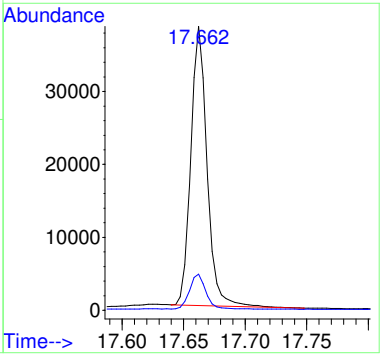


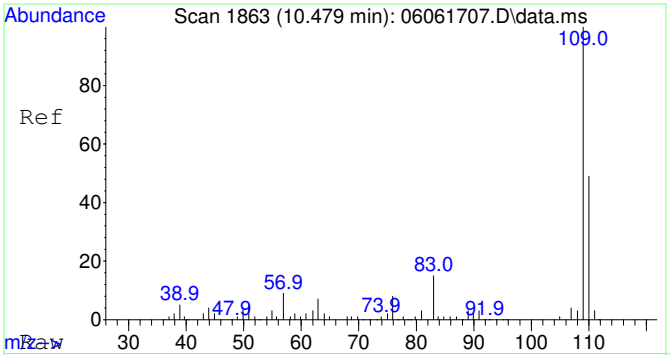


#24
Naphthalene
Concen: 145.40 ug/L
RT: 17.662 min Scan# 3103
Delta R.T. 0.001 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:128 Resp: 35064

Ion	Ratio	Lower	Upper
128	100		
127	13.0	0.0	42.7

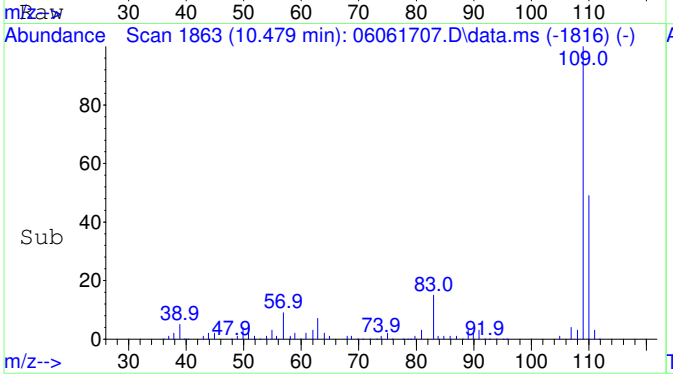


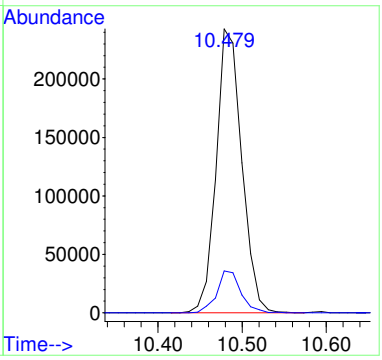


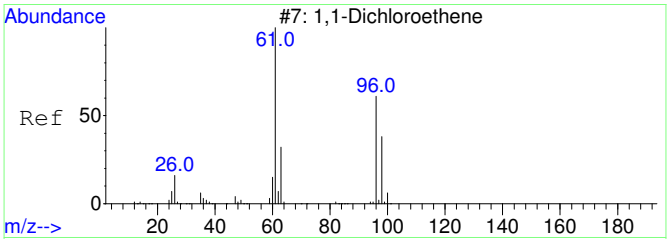
#25
2-Fluorotoluene SCAN
Concen: 4982.82 ug/L
RT: 10.479 min Scan# 1863
Delta R.T. -0.011 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

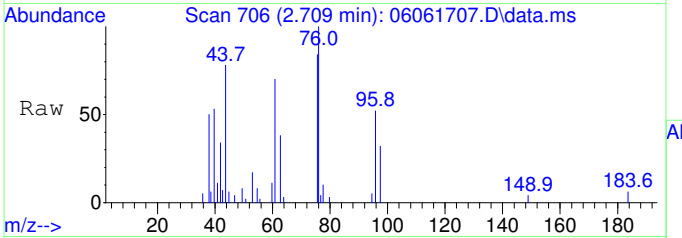
Tgt Ion:109 Resp: 513248

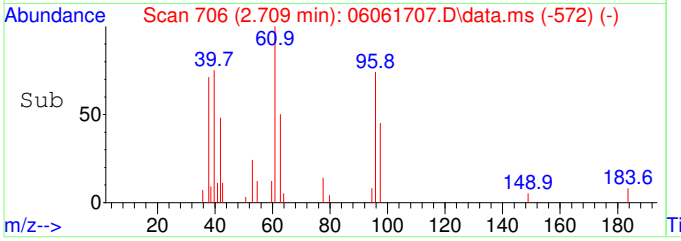
Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	46.1







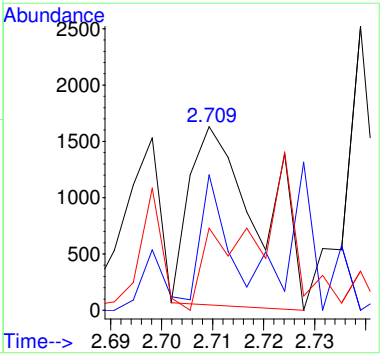


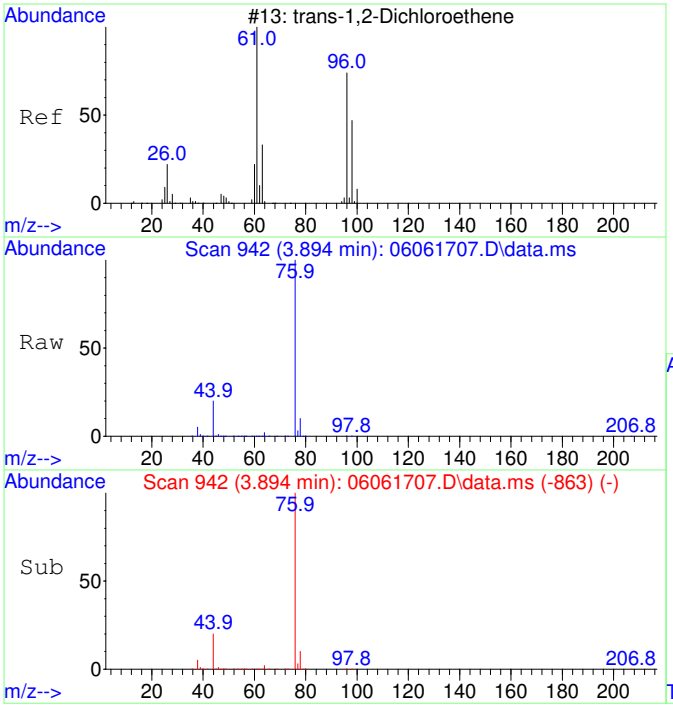


#26
1,1-Dichloroethene SCAN
Concen: 34.73 ug/L
RT: 2.709 min Scan# 706
Delta R.T. -0.004 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 61 Resp: 1505

Ion	Ratio	Lower	Upper
61	100		
96	23.3	16.7	76.7
98	0.0	0.0	45.3

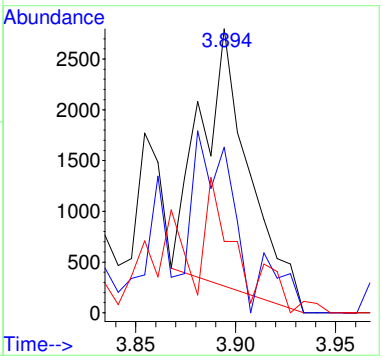


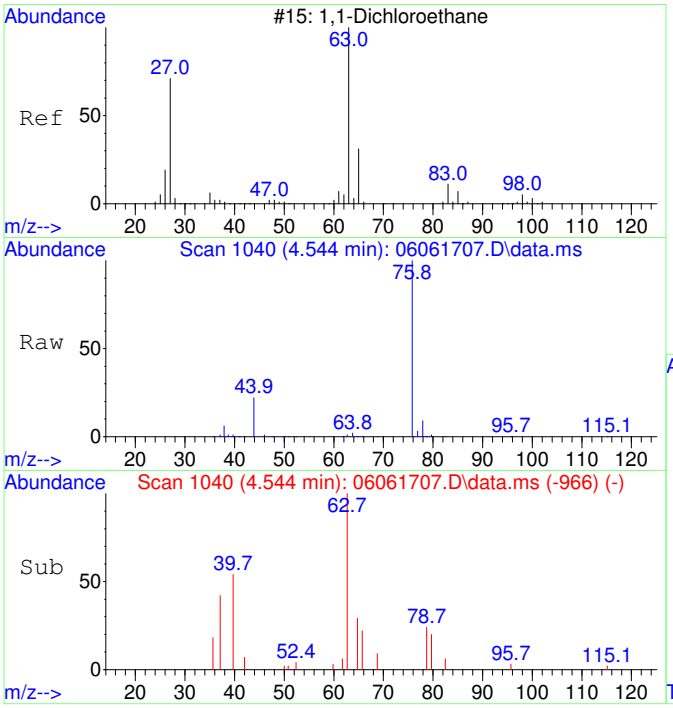


#27
trans-1,2-Dichloroethene SCAN
Concen: 91.44 ug/L
RT: 3.894 min Scan# 942
Delta R.T. 0.026 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 61 Resp: 4229

Ion	Ratio	Lower	Upper
61	100		
96	45.9	26.1	86.1
98	29.2	4.4	64.4

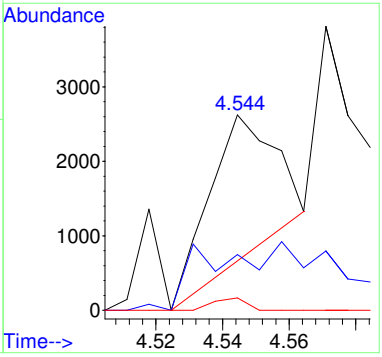


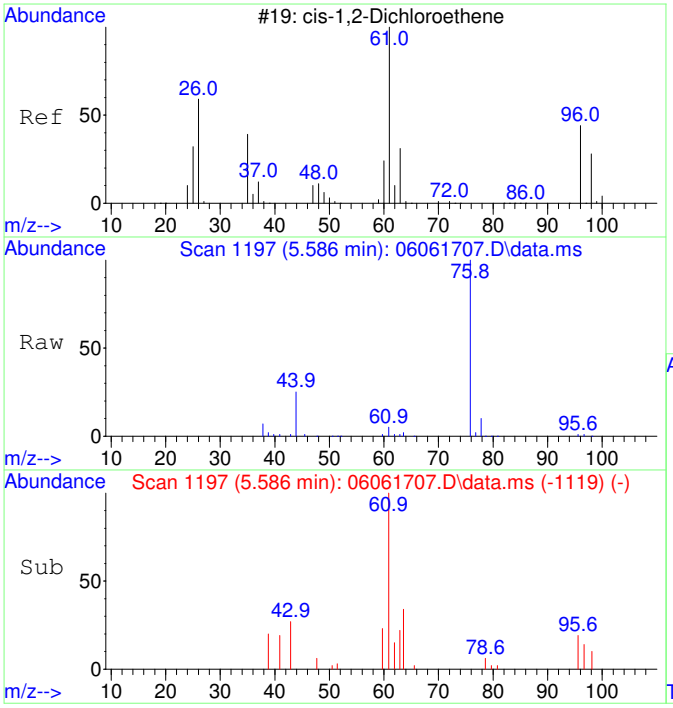


#28
1,1-Dichloroethane SCAN
Concen: 53.78 ug/L
RT: 4.544 min Scan# 1040
Delta R.T. -0.007 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 63 Resp: 2836

Ion	Ratio	Lower	Upper
63	100		
65	0.0	1.1	61.1#
83	4.1	0.0	31.5

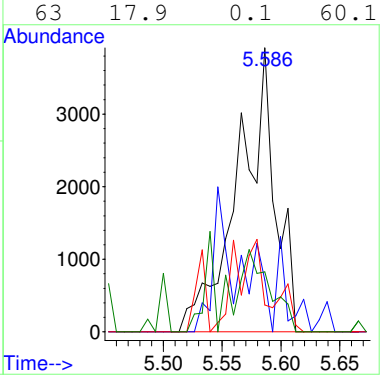


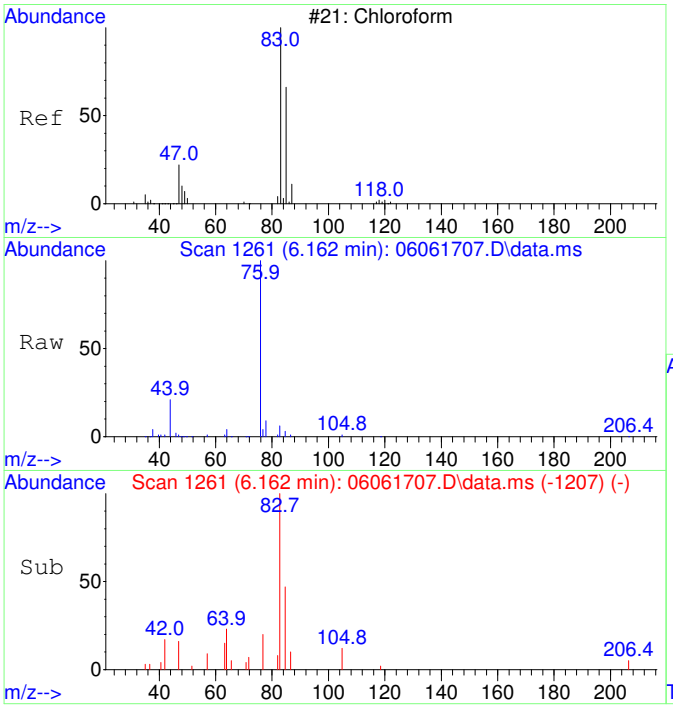


#29
cis-1,2-Dichloroethene SCAN
Concen: 160.29 ug/L
RT: 5.586 min Scan# 1197
Delta R.T. 0.020 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 61 Resp: 8552

Ion	Ratio	Lower	Upper
61	100		
96	11.9	17.5	77.5#
98	15.9	1.9	61.9
63	17.9	0.1	60.1

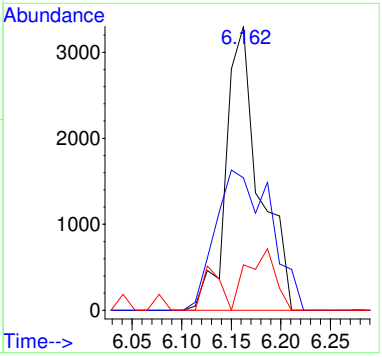


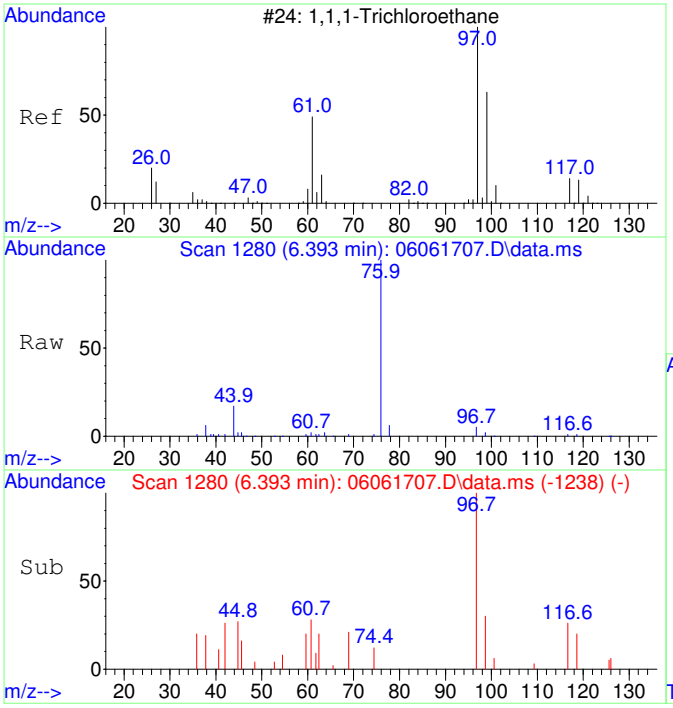


#30
Chloroform SCAN
Concen: 160.71 ug/L
RT: 6.162 min Scan# 1261
Delta R.T. 0.012 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 83 Resp: 7732

Ion	Ratio	Lower	Upper
83	100		
85	81.7	31.2	91.2
47	0.0	3.2	63.2#

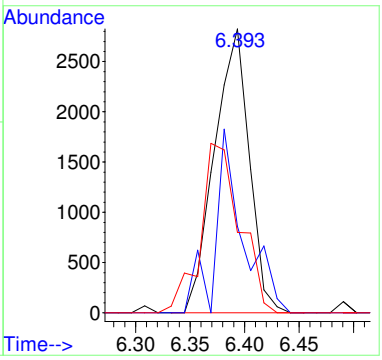


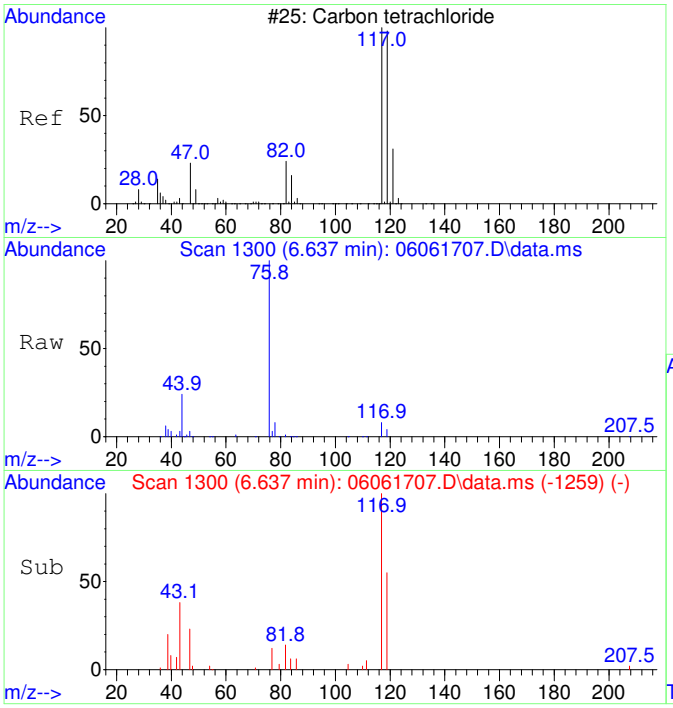


#31
1,1,1-Trichloroethane SCAN
Concen: 158.59 ug/L
RT: 6.393 min Scan# 1280
Delta R.T. 0.012 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 97 Resp: 6279

Ion	Ratio	Lower	Upper
97	100		
99	52.7	38.7	98.7
61	0.0	27.8	87.8#

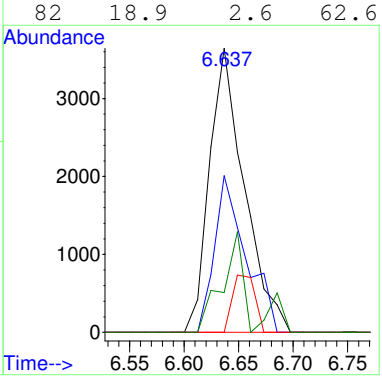


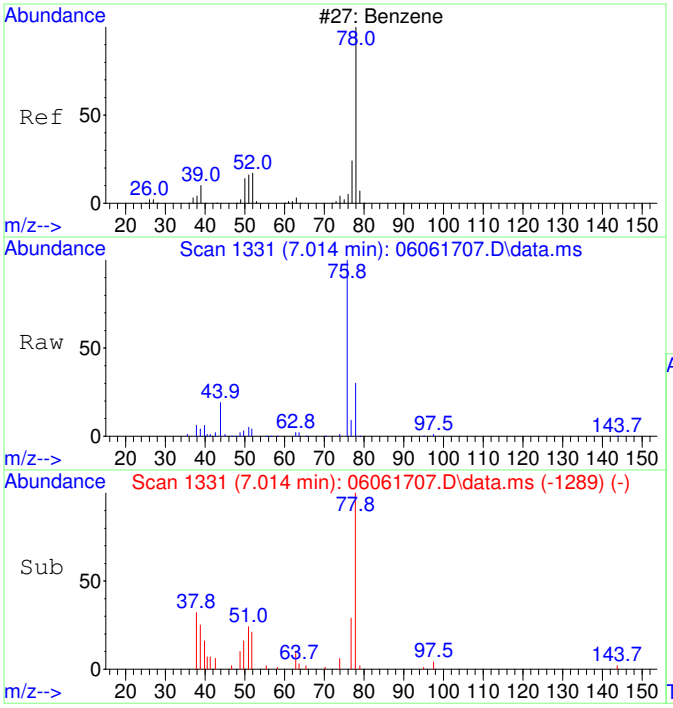


#32
Carbon tetrachloride SCAN
Concen: 223.41 ug/L
RT: 6.637 min Scan# 1300
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:117 Resp: 8143

Ion	Ratio	Lower	Upper
117	100		
119	49.8	66.8	126.8#
121	12.9	0.4	60.4
82	18.9	2.6	62.6

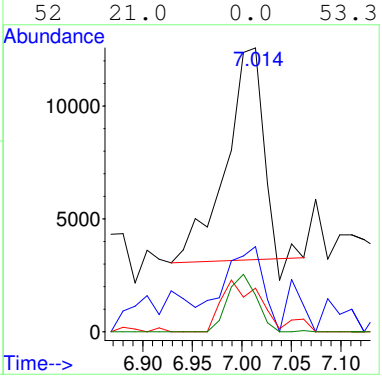


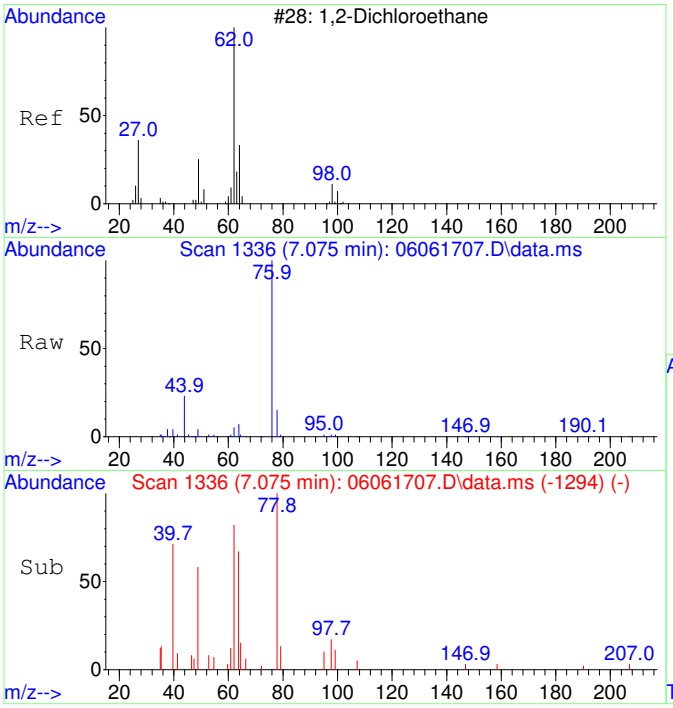


#33
Benzene SCAN
Concen: 226.03 ug/L
RT: 7.014 min Scan# 1331
Delta R.T. 0.012 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 78 Resp: 24647

Ion	Ratio	Lower	Upper
78	100		
77	32.2	0.0	55.2
51	0.0	0.0	52.4
52	21.0	0.0	53.3

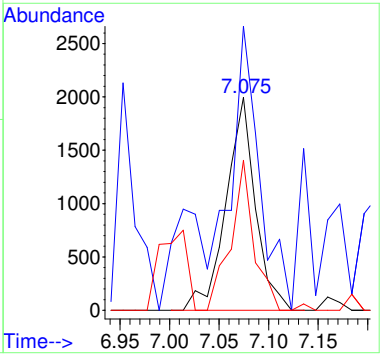


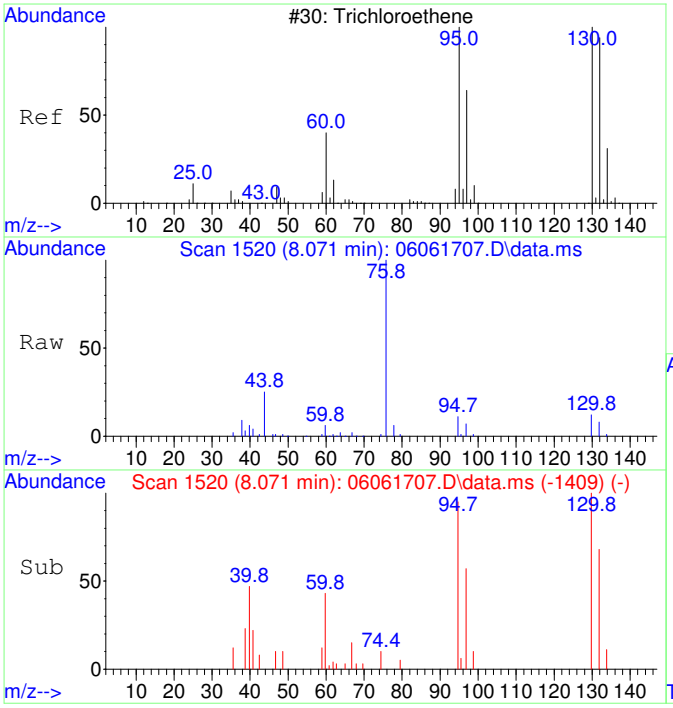


#34
1,2-Dichloroethane SCAN
Concen: 87.63 ug/L
RT: 7.075 min Scan# 1336
Delta R.T. 0.012 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 62 Resp: 4123

Ion	Ratio	Lower	Upper
62	100		
64	105.8	7.4	67.4#
49	55.5	0.0	54.8#

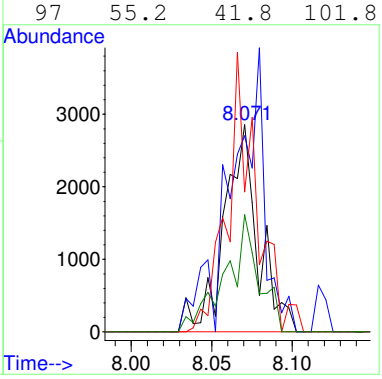


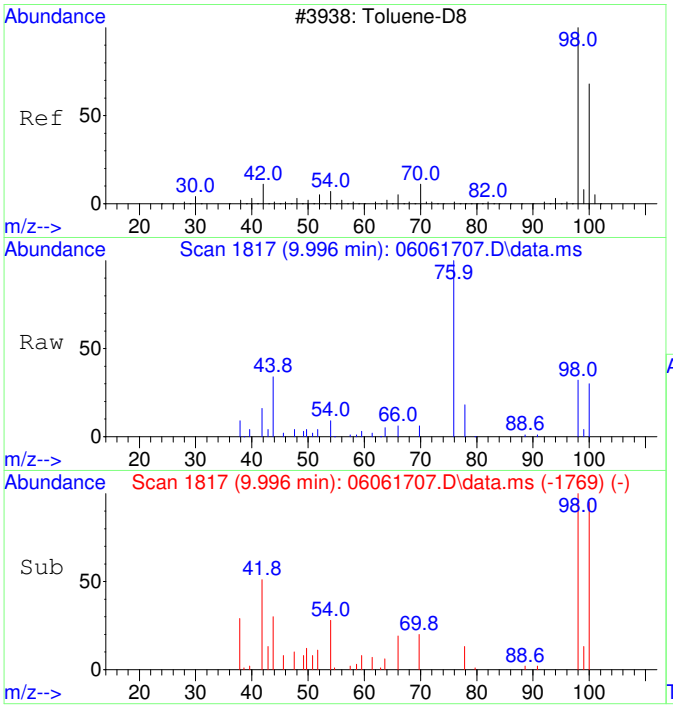


#35
Trichloroethene SCAN
Concen: 165.45 ug/L
RT: 8.071 min Scan# 1520
Delta R.T. 0.009 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:130 Resp: 4178

Ion	Ratio	Lower	Upper
130	100		
95	134.1	76.1	136.1
132	115.2	65.6	125.6
97	55.2	41.8	101.8

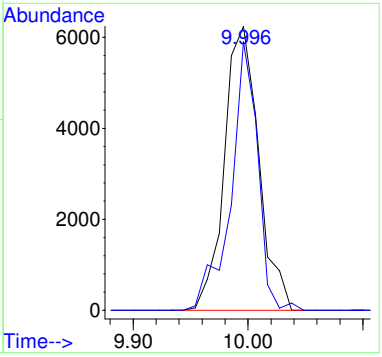


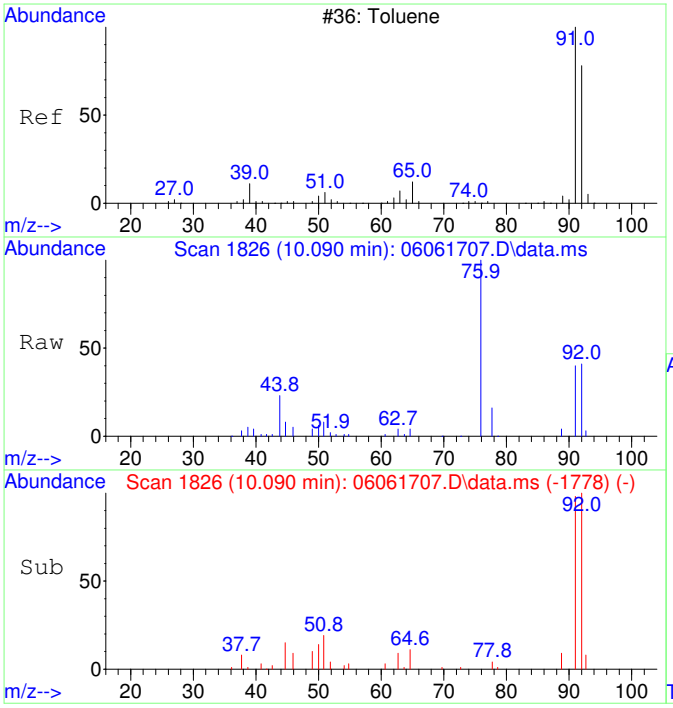


#36
Toluene-d8 SCAN
Concen: 152.71 ug/L
RT: 9.996 min Scan# 1817
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 98 Resp: 12982

Ion	Ratio	Lower	Upper
98	100		
100	73.7	36.2	96.2

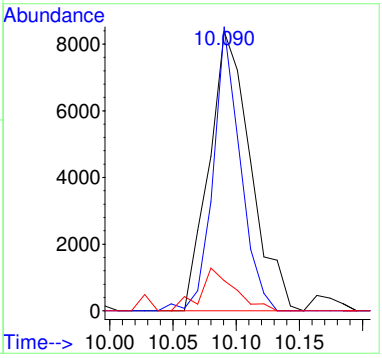


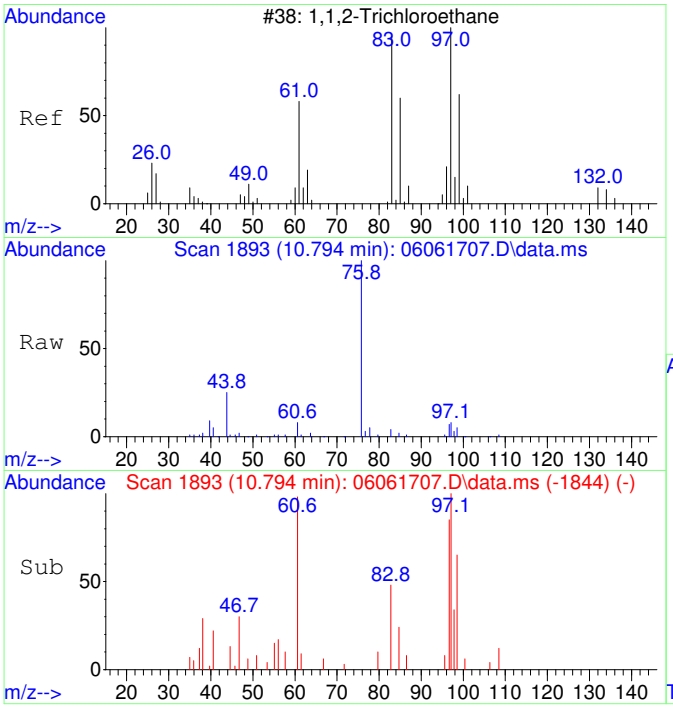


#37
Toluene SCAN
Concen: 168.78 ug/L
RT: 10.090 min Scan# 1826
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 19137

Ion	Ratio	Lower	Upper
91	100		
92	66.7	29.2	89.2
65	12.6	0.0	44.3

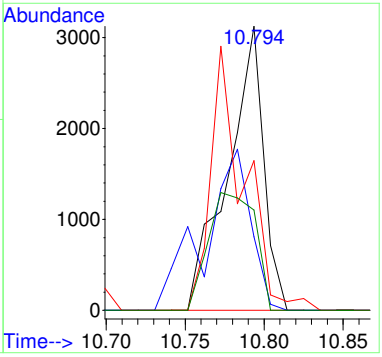


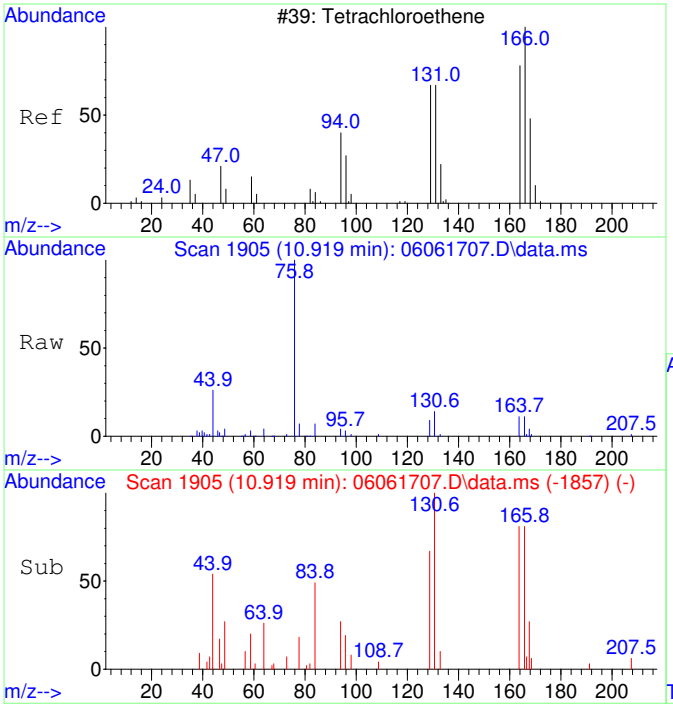


#38
1,1,2-Trichloroethane SCAN
Concen: 193.02 ug/L
RT: 10.794 min Scan# 1893
Delta R.T. 0.010 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 97 Resp: 4929

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.8	117.8#
61	0.0	48.6	108.6#
99	0.0	32.7	92.7#

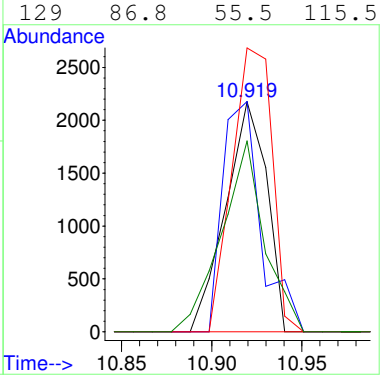


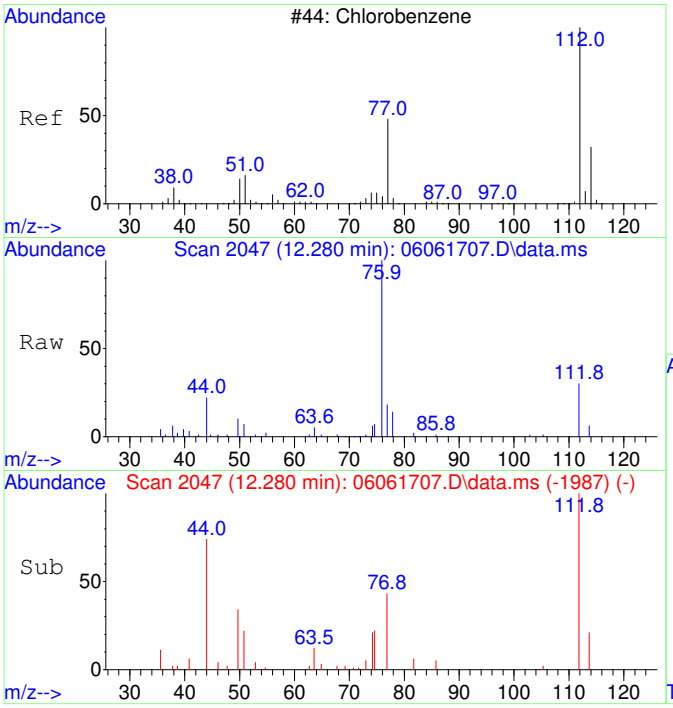


#39
Tetrachloroethene SCAN
Concen: 149.02 ug/L
RT: 10.919 min Scan# 1905
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:166 Resp: 3464

Ion	Ratio	Lower	Upper
166	100		
164	92.8	45.7	105.7
131	120.7	44.8	104.8#
129	86.8	55.5	115.5

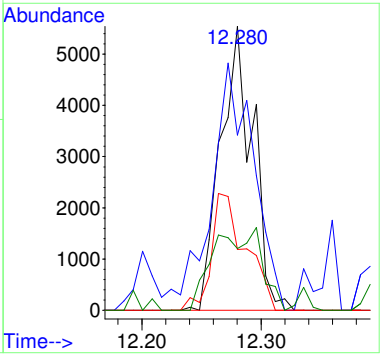


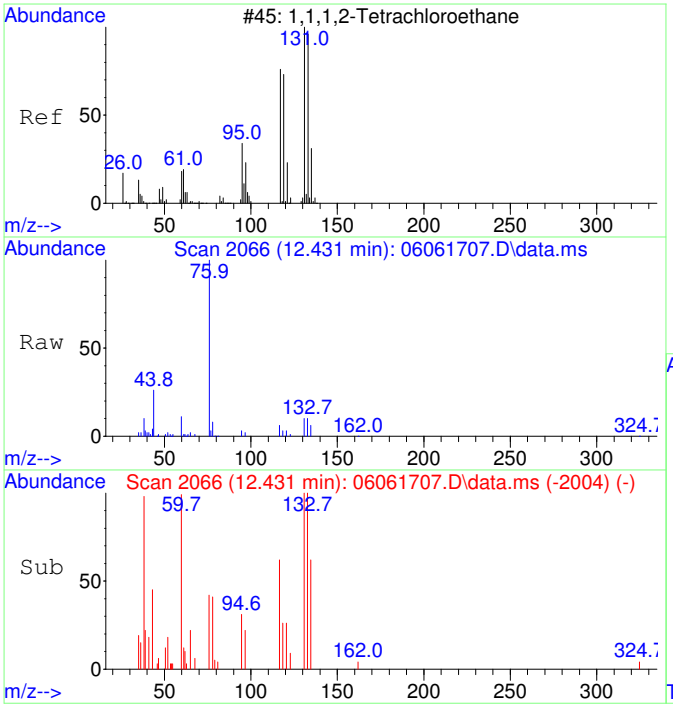


#40
Chlorobenzene SCAN
Concen: 150.52 ug/L
RT: 12.280 min Scan# 2047
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:112 Resp: 10483

Ion	Ratio	Lower	Upper
112	100		
77	0.0	35.1	95.1#
114	0.0	2.6	62.6#
51	43.1	3.7	63.7

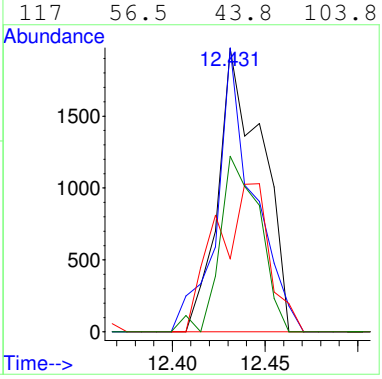


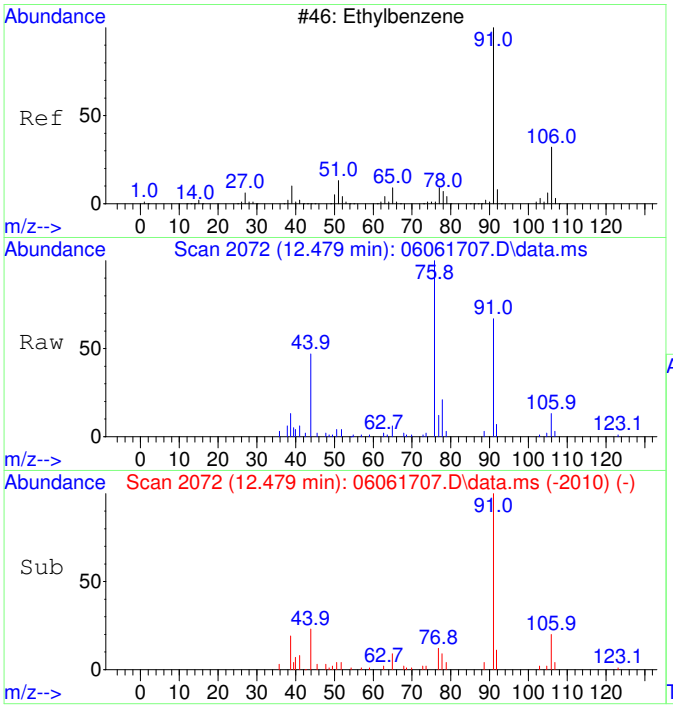


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 149.66 ug/L
RT: 12.431 min Scan# 2066
Delta R.T. -0.008 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:131 Resp: 3244

Ion	Ratio	Lower	Upper
131	100		
133	84.2	63.5	123.5
119	63.1	38.0	98.0
117	56.5	43.8	103.8

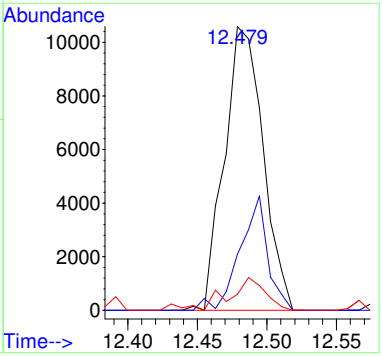


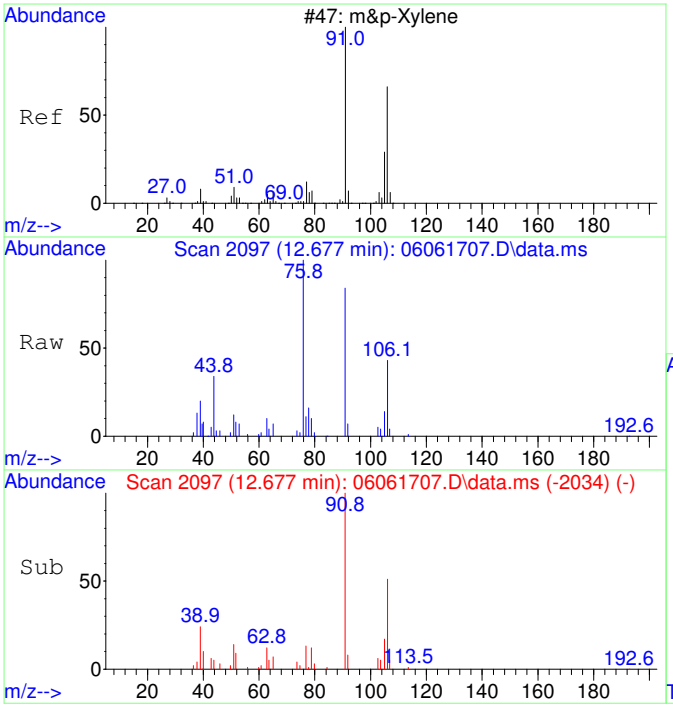


#42
Ethylbenzene SCAN
Concen: 161.32 ug/L
RT: 12.479 min Scan# 2072
Delta R.T. -0.008 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 20480

Ion	Ratio	Lower	Upper
91	100		
106	28.9	0.0	59.8
51	9.7	0.0	45.5

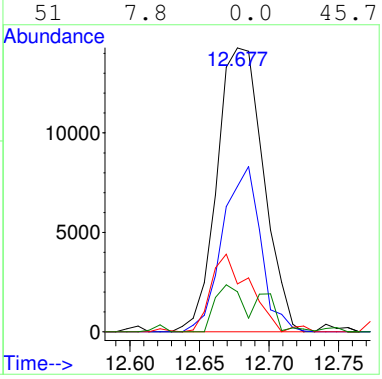


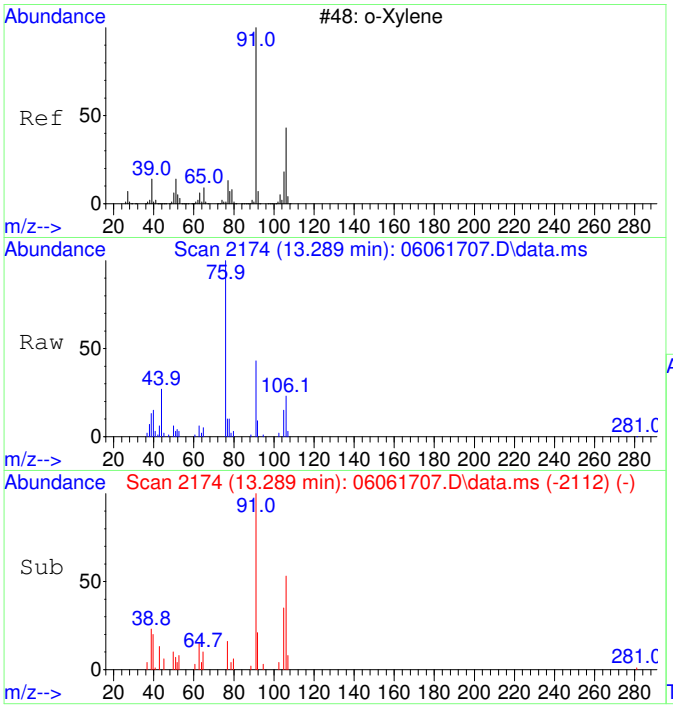


#43
m&p-Xylene SCAN
Concen: 167.69 ug/L
RT: 12.677 min Scan# 2097
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 33240

Ion	Ratio	Lower	Upper
91	100		
106	47.8	18.5	78.5
105	23.1	0.0	51.3
51	7.8	0.0	45.7

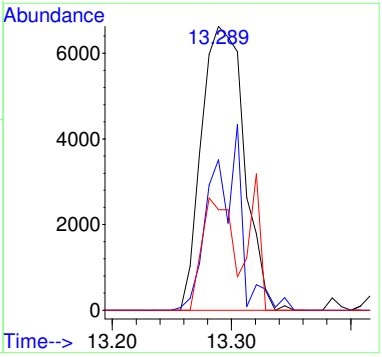


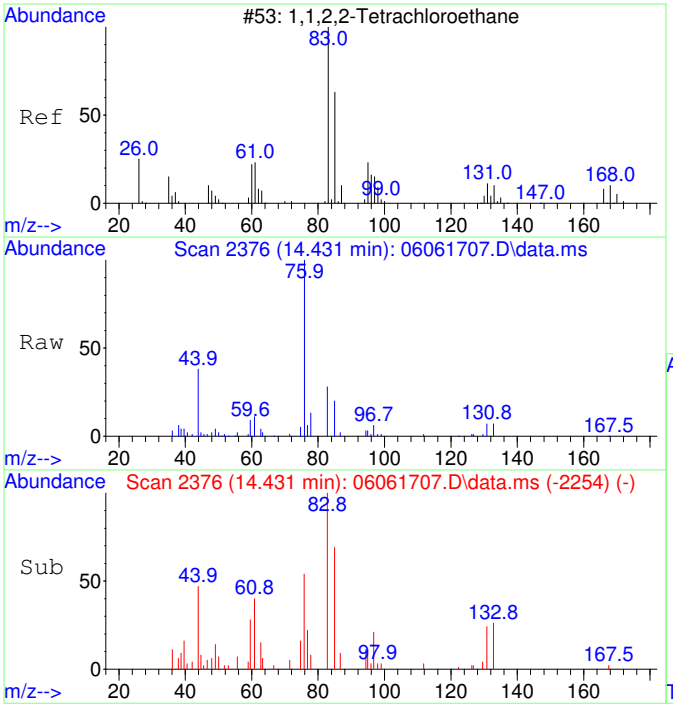


#44
o-Xylene SCAN
Concen: 161.86 ug/L
RT: 13.289 min Scan# 2174
Delta R.T. -0.008 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 16521

Ion	Ratio	Lower	Upper
91	100		
106	0.0	15.5	75.5#
105	21.4	0.0	54.1

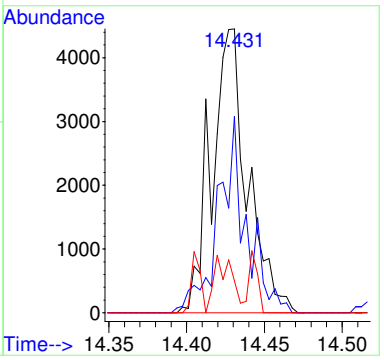


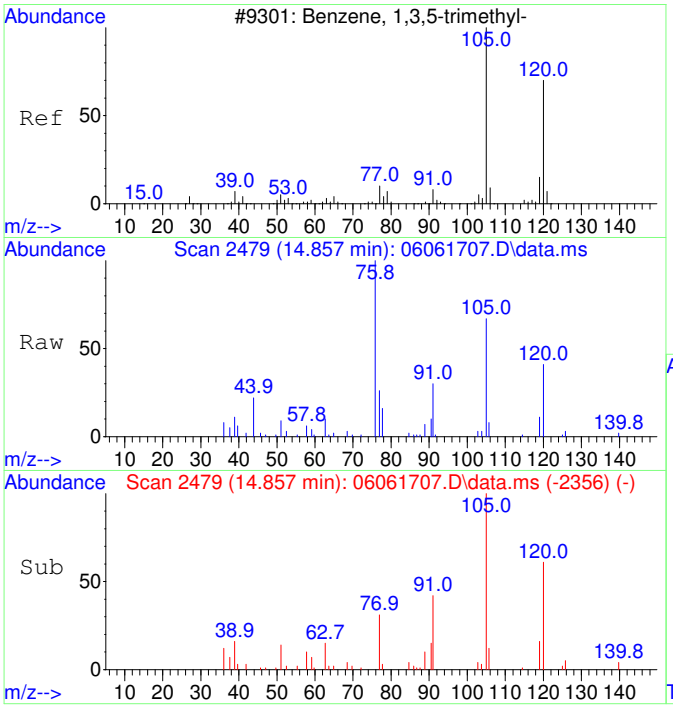


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 154.31 ug/L
RT: 14.431 min Scan# 2376
Delta R.T. 0.003 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 83 Resp: 7125

Ion	Ratio	Lower	Upper
83	100		
85	53.3	33.9	93.9
95	8.7	0.0	46.3

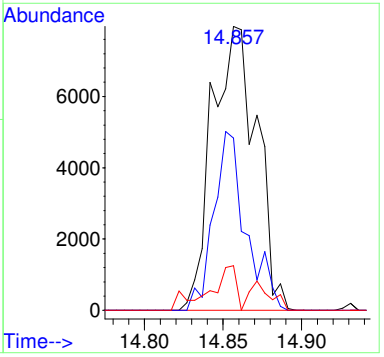


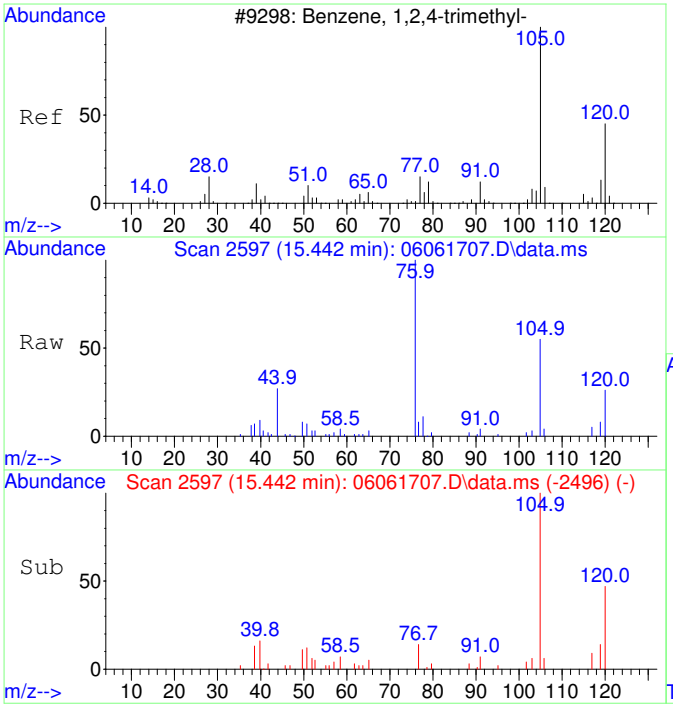


#46
1,3,5-Trimethylbenzene SCAN
Concen: 162.80 ug/L
RT: 14.857 min Scan# 2479
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:105 Resp: 15763

Ion	Ratio	Lower	Upper
105	100		
120	45.3	17.3	77.3
119	5.8	0.0	42.7

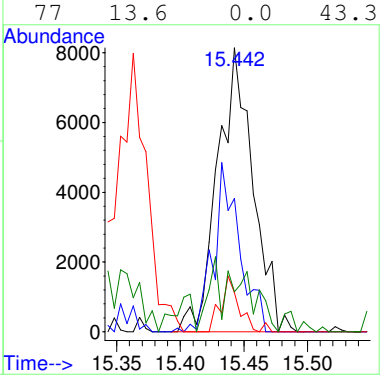


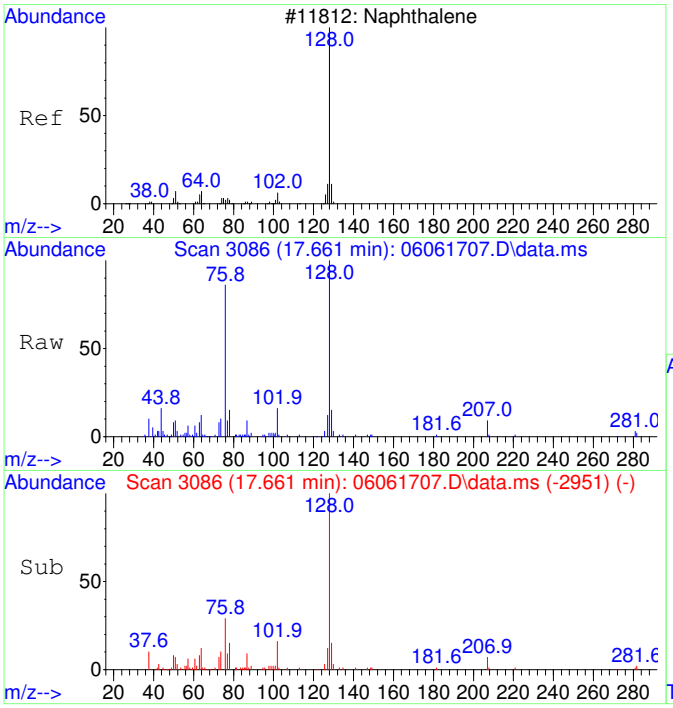


#47
1,2,4-Trimethylbenzene SCAN
Concen: 156.45 ug/L
RT: 15.442 min Scan# 2597
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:105 Resp: 15785

Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.9	72.9#
119	9.7	0.0	40.5
77	13.6	0.0	43.3

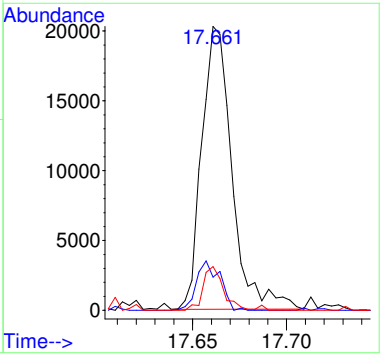




#48
Naphthalene SCAN
Concen: 163.00 ug/L
RT: 17.661 min Scan# 3086
Delta R.T. 0.001 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:128 Resp: 22682

Ion	Ratio	Lower	Upper
128	100		
127	13.6	0.0	43.9
129	10.0	0.0	41.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061707.D
Acq On : 6 Jun 2017 13:39
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL5
Misc : 1717061 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

M.I. Performed By:
RH at 3:26 pm, Jun 06, 2017

M.I. Approved By:
ZR at 12:51 pm, Jun 08, 2017

Quant Time: Jun 06 15:08:37 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration

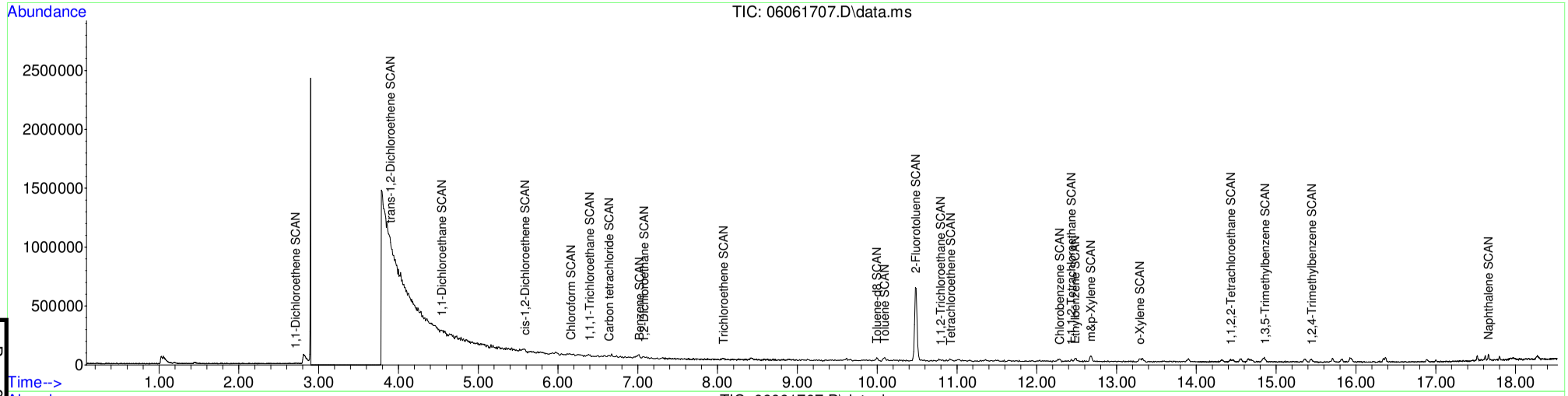
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 2-Fluorotoluene	10.480	109	849562	5000.00	ug/L		0.00
System Monitoring Compounds							
12) Toluene-d8	9.987	98	21282	152.96	ug/L		0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery =	3.06%#			
Target Compounds							Qvalue
2] 1,1-Dichloroethene	2.707	61	9444m	136.86	ug/L		
3] trans-1,2-Dichloroethene	3.889	61	10564	145.47	ug/L		97
4] 1,1-Dichloroethane	4.559	63	11332	144.77	ug/L		100
5] cis-1,2-Dichloroethene	5.574	61	10912	145.84	ug/L		99
6] Chloroform	6.151	83	10842	149.75	ug/L		99
7] 1,1,1-Trichloroethane	6.383	97	9854	148.19	ug/L		100
8] Carbon tetrachloride	6.650	117	8397	146.38	ug/L		98
9] Benzene	7.003	78	29070	172.41	ug/L		99
10] 1,2-Dichloroethane	7.064	62	9144	146.38	ug/L		96
11] Trichloroethene	8.067	130	6593	152.04	ug/L		99
13] Toluene	10.092	91	28707	155.81	ug/L		100
14] 1,1,2-Trichloroethane	10.774	97	5976	151.68	ug/L		99
15] Tetrachloroethene	10.921	166	7214	152.76	ug/L		97
16] Chlorobenzene	12.274	112	17878	152.76	ug/L		99
17] 1,1,1,2-Tetrachloroethane	12.432	131	5745	149.56	ug/L		98
18] Ethylbenzene	12.480	91	30016	151.38	ug/L		99
19] m&p-Xylene	12.679	91	46809	300.92	ug/L		99
20] o-Xylene	13.290	91	24405	151.70	ug/L		100
21] 1,1,2,2-Tetrachloroethane	14.428	83	10279	150.24	ug/L		100
22] 1,3,5-Trimethylbenzene	14.853	105	23610	148.64	ug/L		100
23] 1,2,4-Trimethylbenzene	15.439	105	24195	148.58	ug/L		100
24] Naphthalene	17.662	128	35064	145.40	ug/L		99
25) 2-Fluorotoluene SCAN	10.479	109	513248	4982.82	ug/L		95
26) 1,1-Dichloroethene SCAN	2.709	61	1505	34.73	ug/L	#	65
27) trans-1,2-Dichloroethe...	3.894	61	4229	91.44	ug/L		88
28) 1,1-Dichloroethane SCAN	4.544	63	2836	53.78	ug/L	#	46
29) cis-1,2-Dichloroethene...	5.586	61	8552	160.29	ug/L	#	62
30) Chloroform SCAN	6.162	83	7732	160.71	ug/L	#	62
31) 1,1,1-Trichloroethane ...	6.393	97	6279	158.59	ug/L	#	54
32) Carbon tetrachloride SCAN	6.637	117	8143	223.41	ug/L	#	60
33) Benzene SCAN	7.014	78	24647	226.03	ug/L	#	79
34) 1,2-Dichloroethane SCAN	7.075	62	4123	87.63	ug/L	#	7
35) Trichloroethene SCAN	8.071	130	4178	165.45	ug/L		77
36) Toluene-d8 SCAN	9.996	98	12982	152.71	ug/L		91
37) Toluene SCAN	10.090	91	19137	168.78	ug/L		91
38) 1,1,2-Trichloroethane ...	10.794	97	4929	193.02	ug/L	#	11
39) Tetrachloroethene SCAN	10.919	166	3464	149.02	ug/L	#	76
40) Chlorobenzene SCAN	12.280	112	10483	150.52	ug/L	#	41
41) 1,1,1,2-Tetrachloroeth...	12.431	131	3244	149.66	ug/L		88
42) Ethylbenzene SCAN	12.479	91	20480	161.32	ug/L		94
43) m&p-Xylene SCAN	12.677	91	33240	167.69	ug/L		95
44) o-Xylene SCAN	13.289	91	16521	161.86	ug/L	#	53
45) 1,1,2,2-Tetrachloroeth...	14.431	83	7125	154.31	ug/L		86
46) 1,3,5-Trimethylbenzene...	14.857	105	15763	162.80	ug/L		94
47) 1,2,4-Trimethylbenzene...	15.442	105	15785	156.45	ug/L	#	56
48) Naphthalene SCAN	17.661	128	22682	163.00	ug/L		98

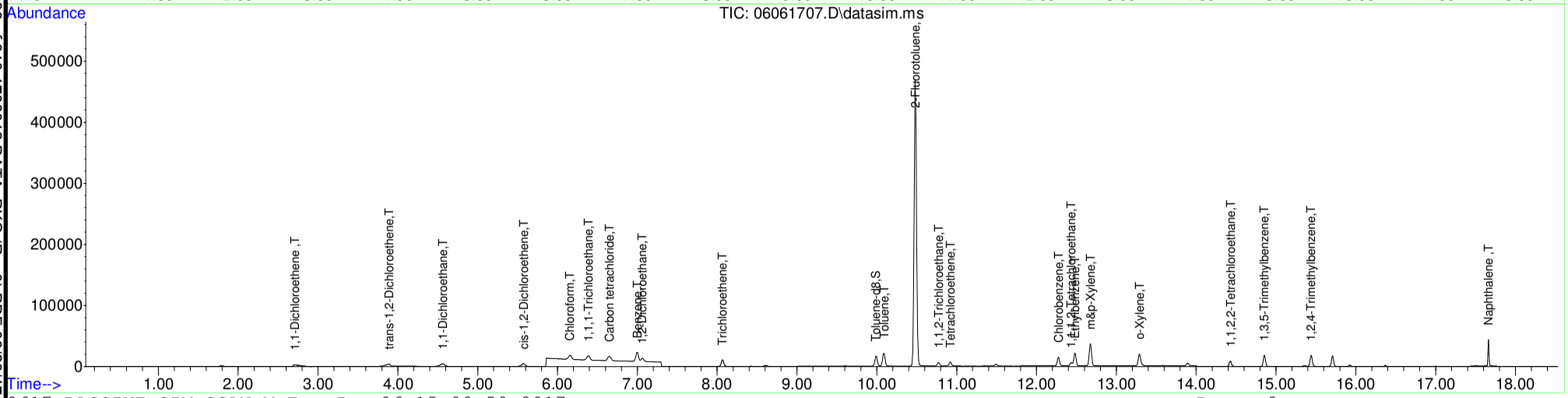
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061707.D
Acq On : 6 Jun 2017 13:39
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL5
Misc : 1717061 0.15 mg/L
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 06 15:08:37 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration





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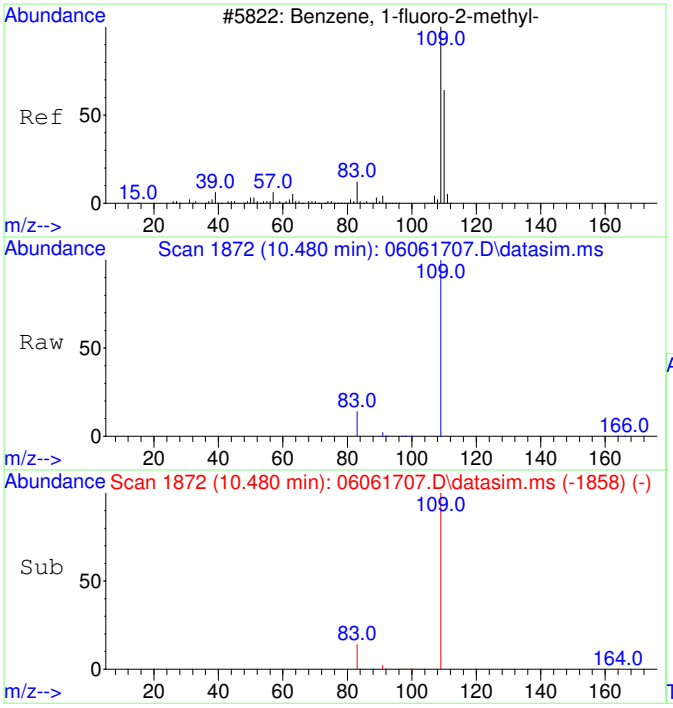
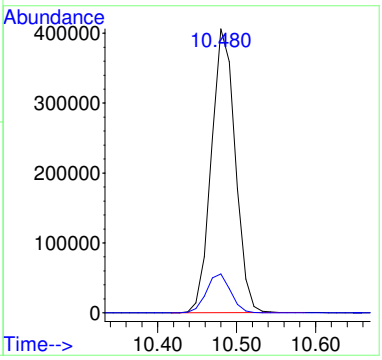
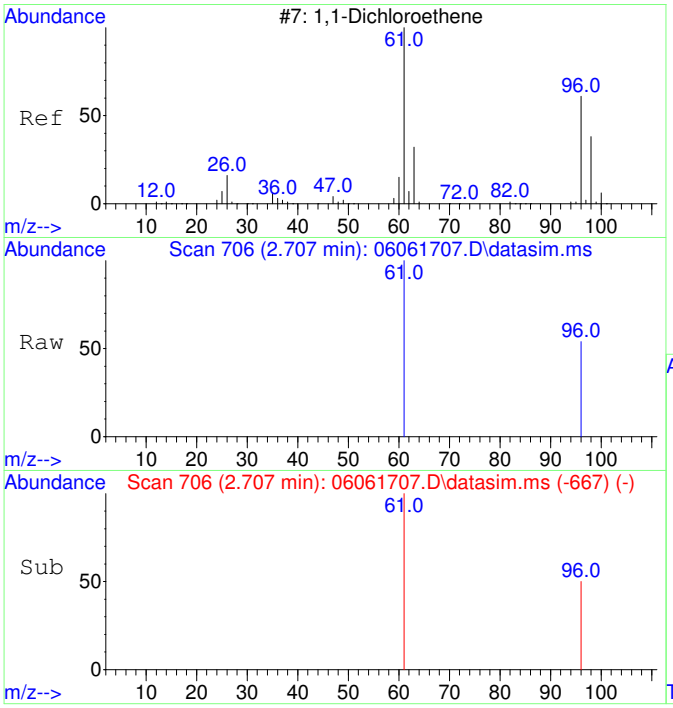


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:109 Resp: 849562

Ion	Ratio	Lower	Upper
109	100		
83	13.7	0.0	44.4

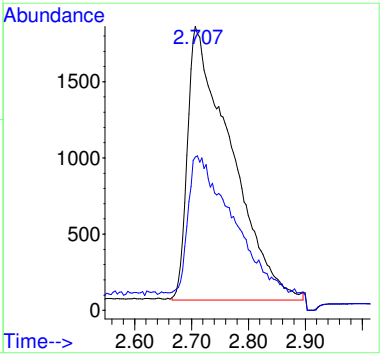


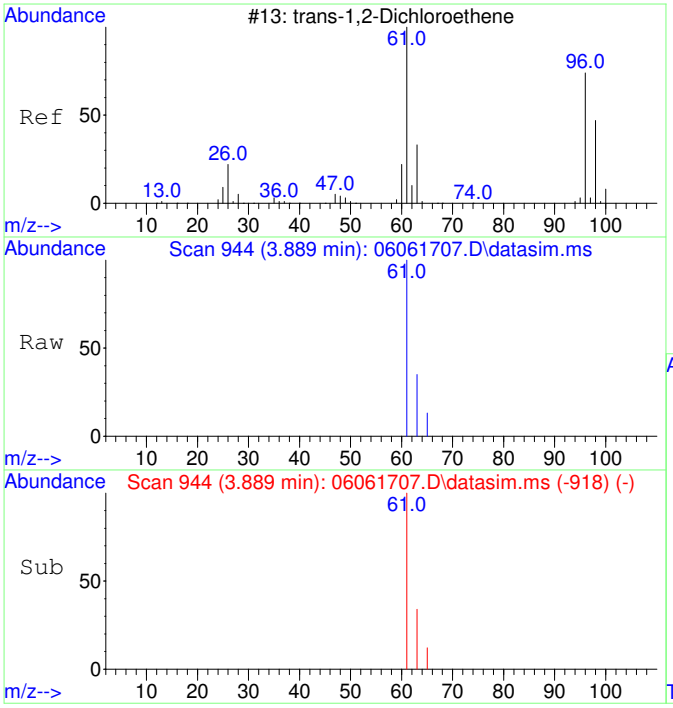


#2
1,1-Dichloroethene
Concen: 136.86 ug/L m
RT: 2.707 min Scan# 706
Delta R.T. -0.004 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 61 Resp: 9444

Ion	Ratio	Lower	Upper
61	100		
96	55.9	21.8	81.8

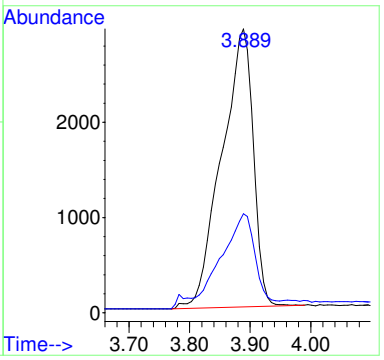


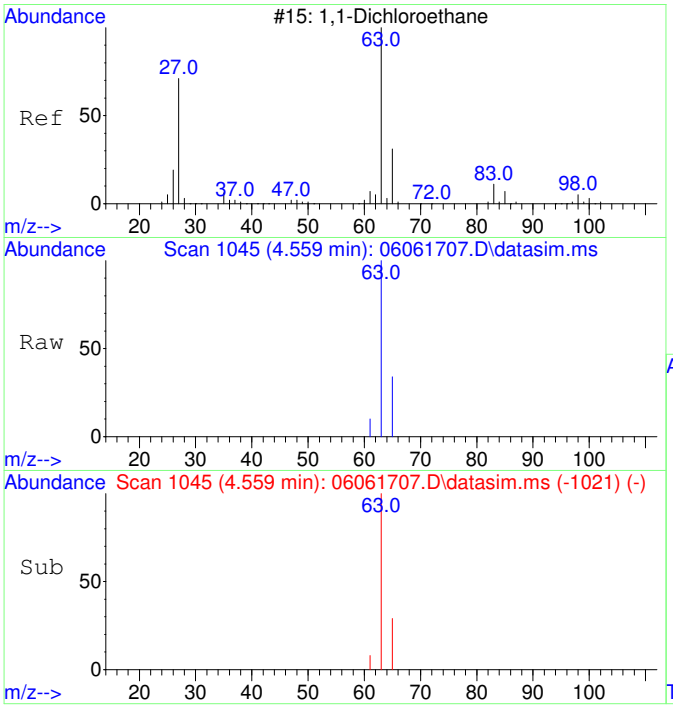


#3
trans-1,2-Dichloroethene
Concen: 145.47 ug/L
RT: 3.889 min Scan# 944
Delta R.T. 0.020 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 61 Resp: 10564

Ion	Ratio	Lower	Upper
61	100		
63	29.3	1.0	61.0

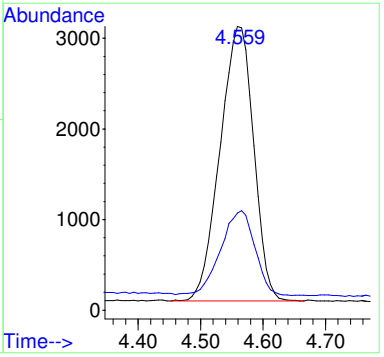


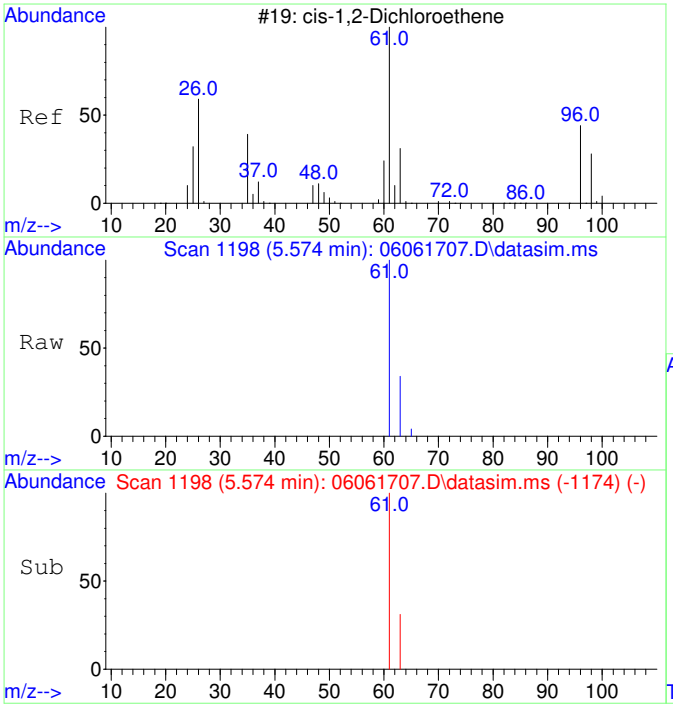


#4
1,1-Dichloroethane
Concen: 144.77 ug/L
RT: 4.559 min Scan# 1045
Delta R.T. 0.006 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 63 Resp: 11332

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.5	60.5

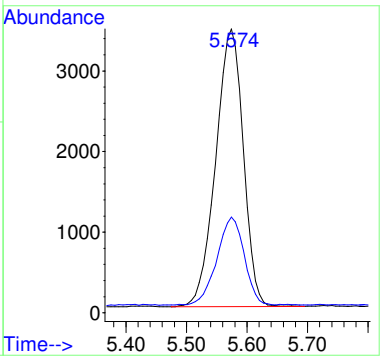


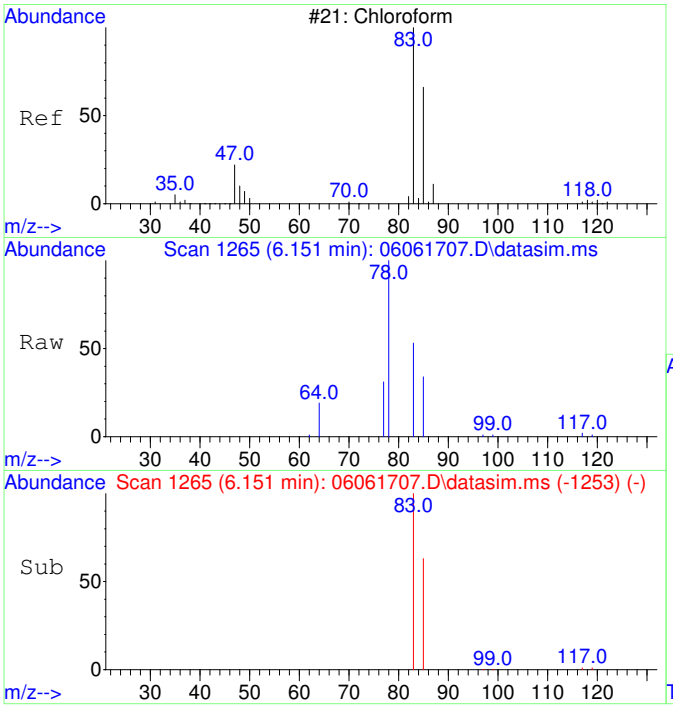


#5
cis-1,2-Dichloroethene
Concen: 145.84 ug/L
RT: 5.574 min Scan# 1198
Delta R.T. 0.006 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 61 Resp: 10912

Ion	Ratio	Lower	Upper
61	100		
63	31.3	0.9	60.9

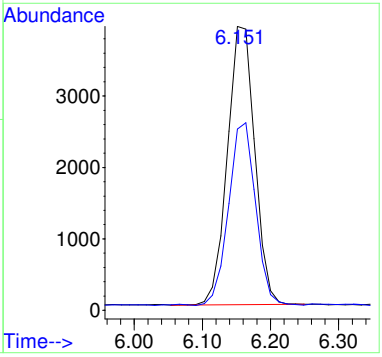


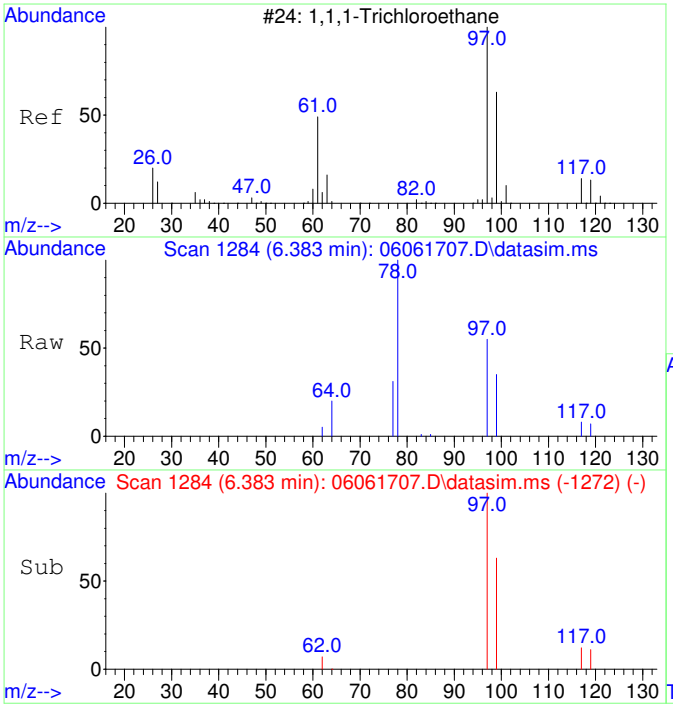


#6
Chloroform
Concen: 149.75 ug/L
RT: 6.151 min Scan# 1265
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 83 Resp: 10842

Ion	Ratio	Lower	Upper
83	100		
85	64.8	33.7	93.7

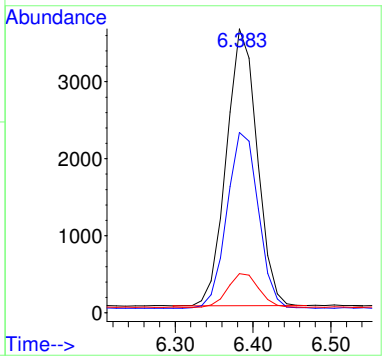


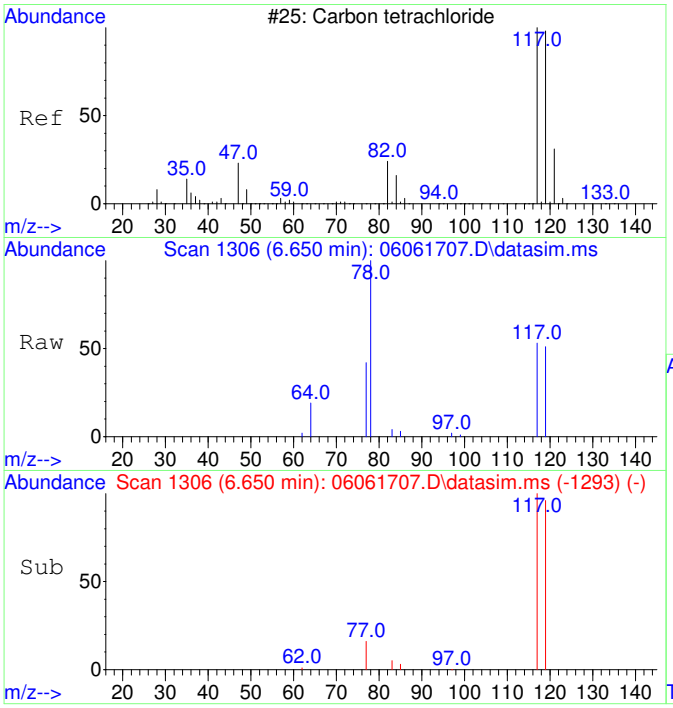


#7
1,1,1-Trichloroethane
Concen: 148.19 ug/L
RT: 6.383 min Scan# 1284
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 97 Resp: 9854

Ion	Ratio	Lower	Upper
97	100		
99	64.4	34.3	94.3
117	12.4	0.0	42.3

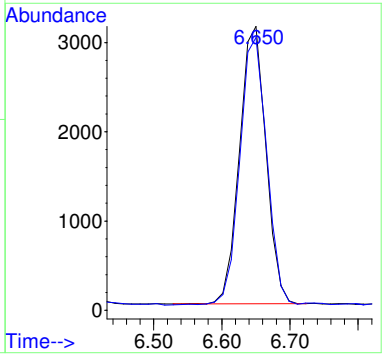


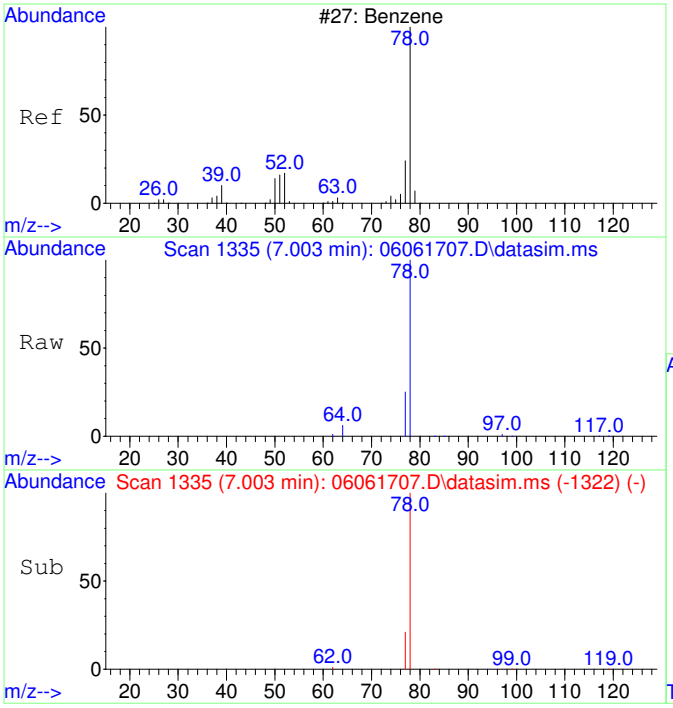


#8
Carbon tetrachloride
Concen: 146.38 ug/L
RT: 6.650 min Scan# 1306
Delta R.T. 0.012 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:117 Resp: 8397

Ion	Ratio	Lower	Upper
117	100		
119	97.2	65.4	125.4

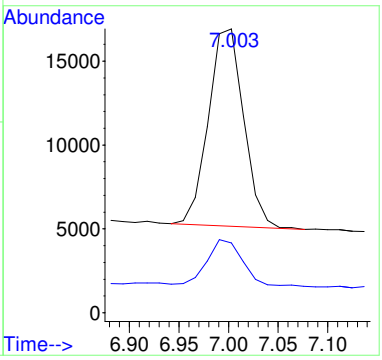


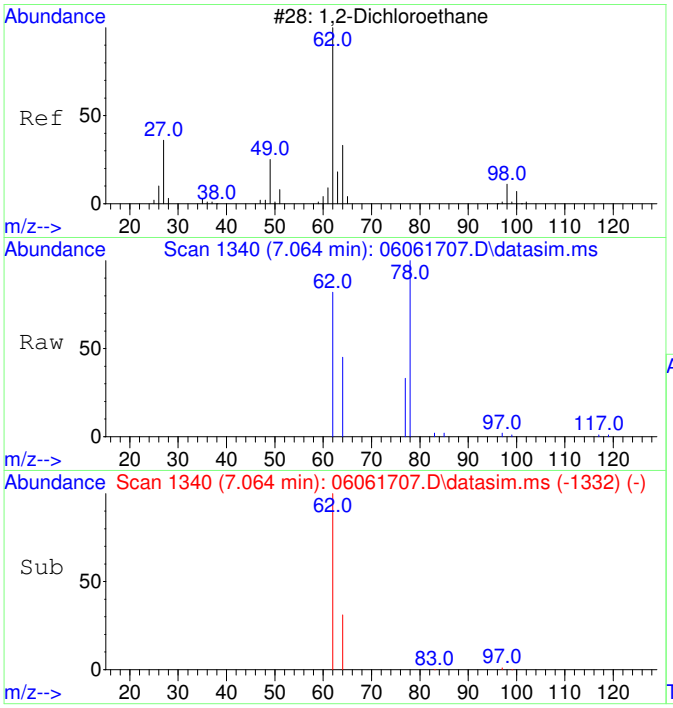


#9
Benzene
Concen: 172.41 ug/L
RT: 7.003 min Scan# 1335
Delta R.T. 0.012 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 78 Resp: 29070

Ion	Ratio	Lower	Upper
78	100		
77	22.7	0.0	53.0

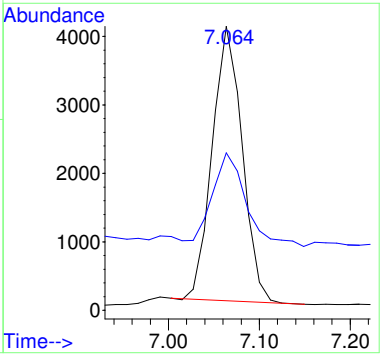


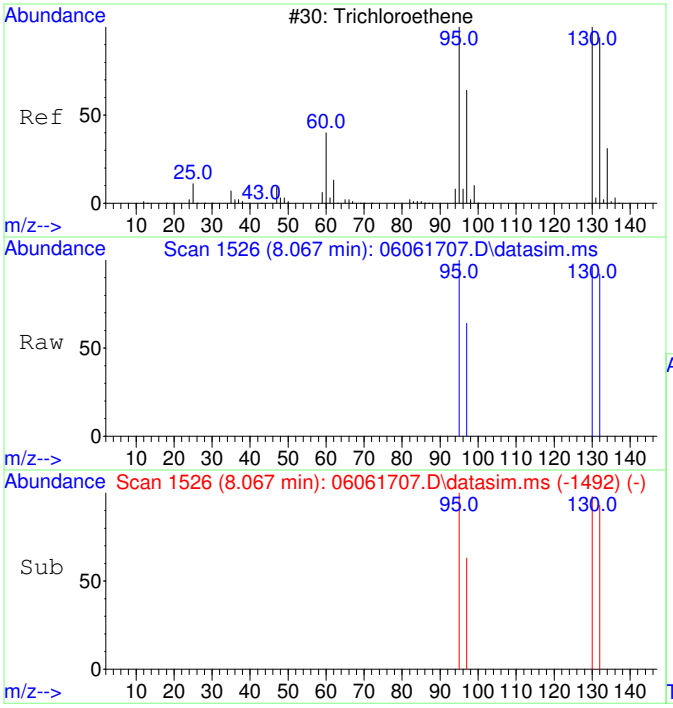


#10
1,2-Dichloroethane
Concen: 146.38 ug/L
RT: 7.064 min Scan# 1340
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 62 Resp: 9144

Ion	Ratio	Lower	Upper
62	100		
64	35.1	2.6	62.6

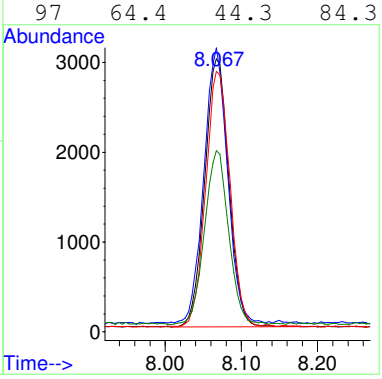


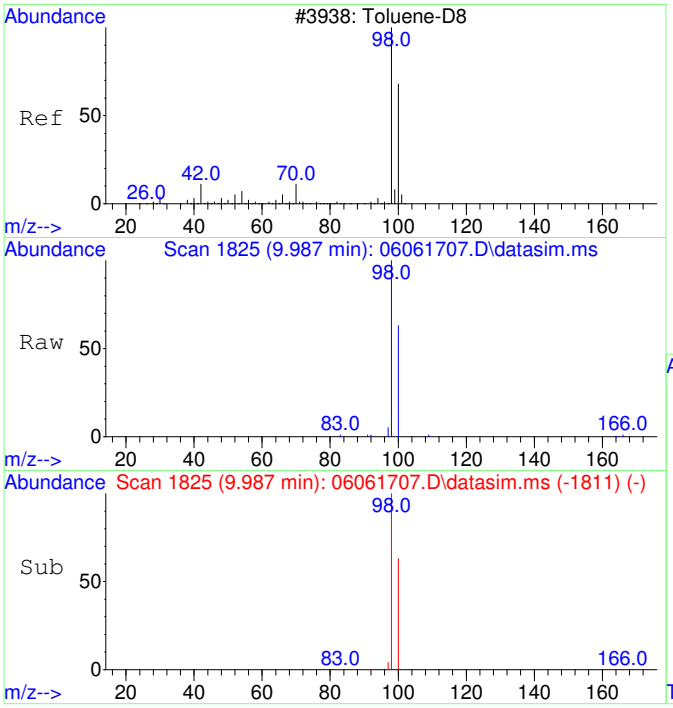


#11
Trichloroethene
Concen: 152.04 ug/L
RT: 8.067 min Scan# 1526
Delta R.T. 0.004 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:130 Resp: 6593

Ion	Ratio	Lower	Upper
130	100		
95	99.8	69.8	129.8
132	94.6	76.4	116.4
97	64.4	44.3	84.3

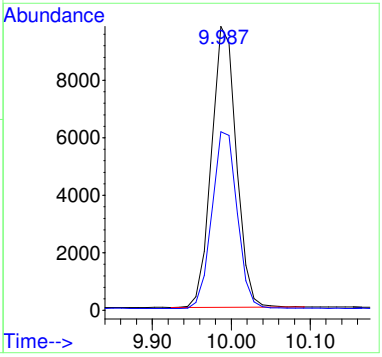


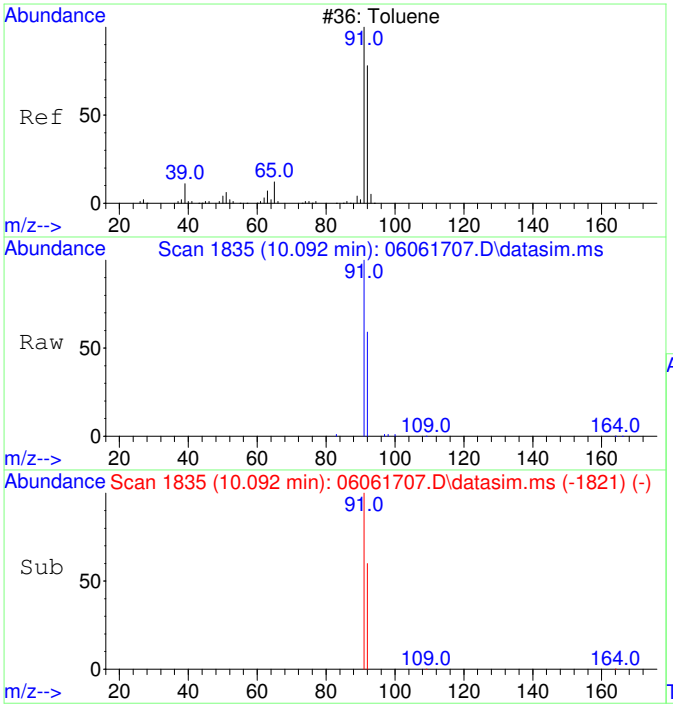


#12
Toluene-d8
Concen: 152.96 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 98 Resp: 21282

Ion	Ratio	Lower	Upper
98	100		
100	64.1	34.2	94.2

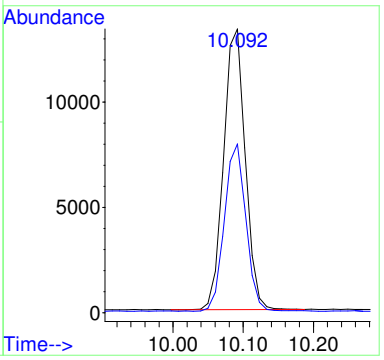


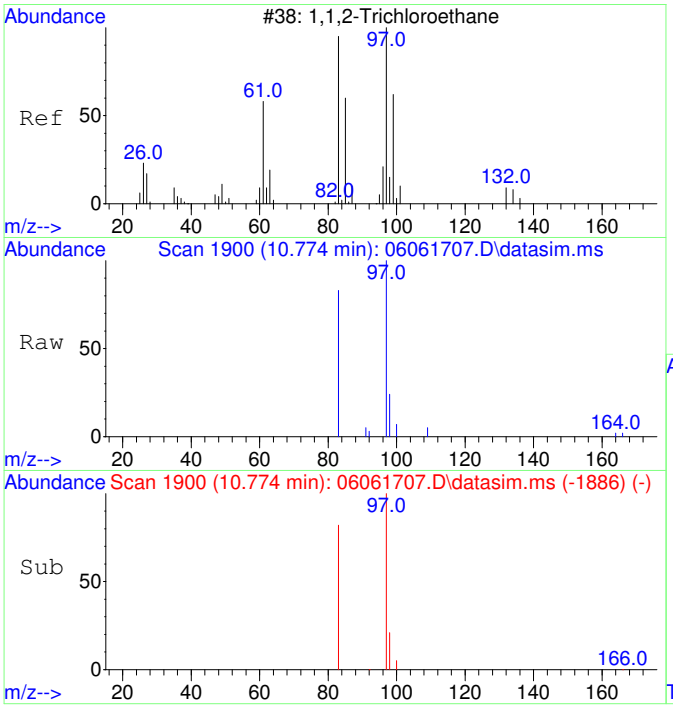


#13
Toluene
Concen: 155.81 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 28707

Ion	Ratio	Lower	Upper
91	100		
92	58.5	28.4	88.4

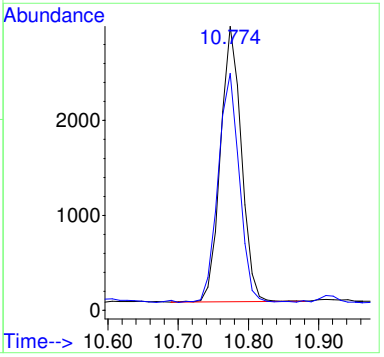


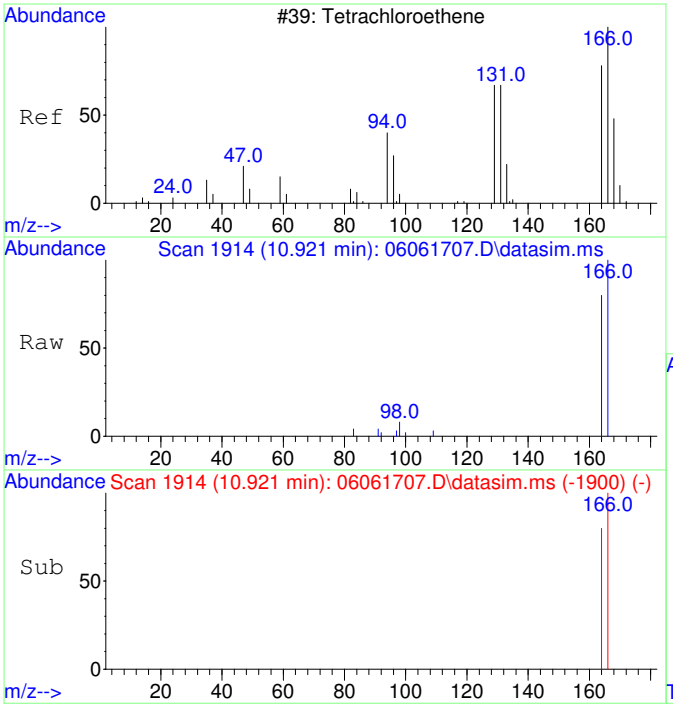


#14
1,1,2-Trichloroethane
Concen: 151.68 ug/L
RT: 10.774 min Scan# 1900
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 97 Resp: 5976

Ion	Ratio	Lower	Upper
97	100		
83	83.3	54.5	114.5

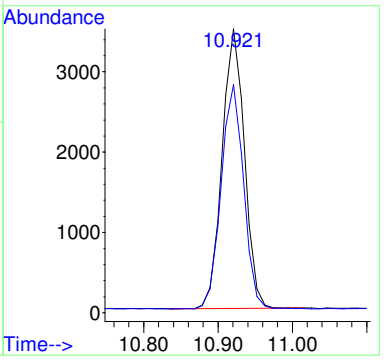


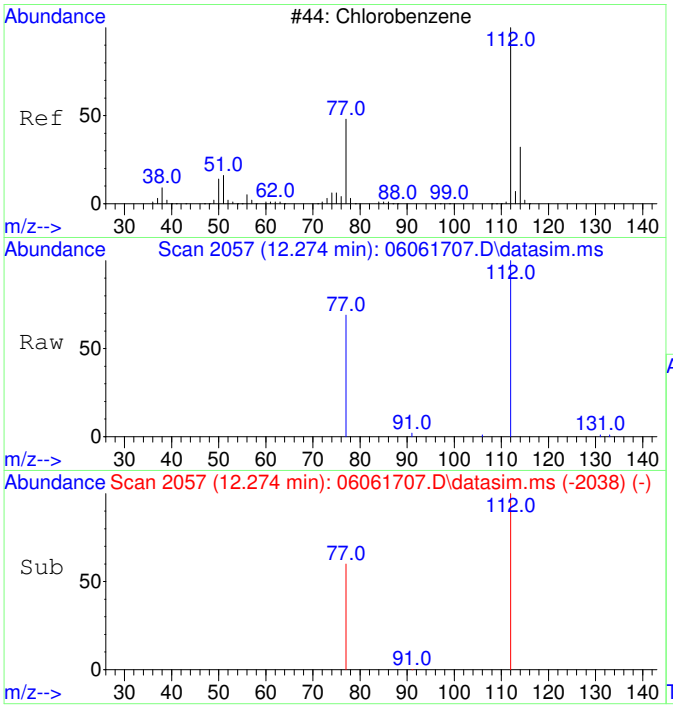


#15
Tetrachloroethene
Concen: 152.76 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:166 Resp: 7214

Ion	Ratio	Lower	Upper
166	100		
164	80.5	48.2	108.2

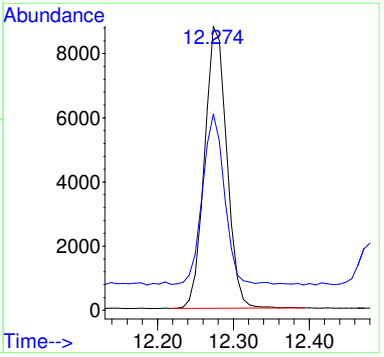


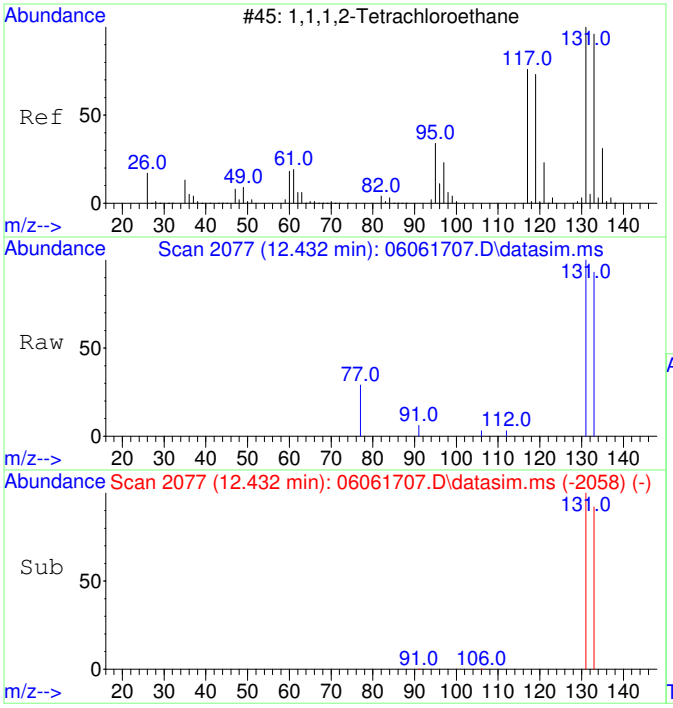


#16
Chlorobenzene
Concen: 152.76 ug/L
RT: 12.274 min Scan# 2057
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:112 Resp: 17878

Ion	Ratio	Lower	Upper
112	100		
77	59.8	28.9	88.9

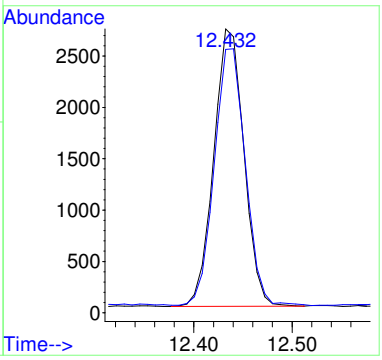


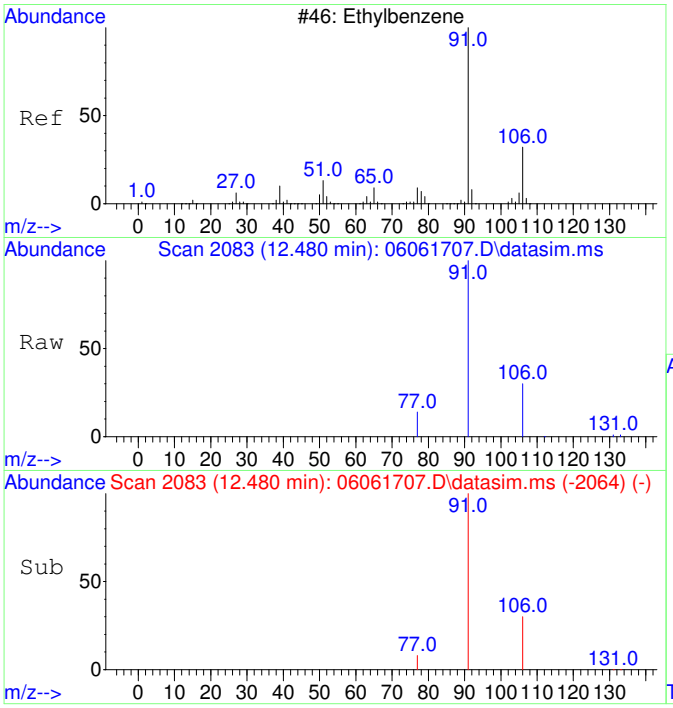


#17
1,1,1,2-Tetrachloroethane
Concen: 149.56 ug/L
RT: 12.432 min Scan# 2077
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:131 Resp: 5745

Ion	Ratio	Lower	Upper
131	100		
133	93.4	65.2	125.2

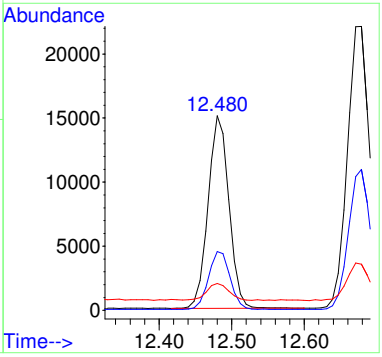


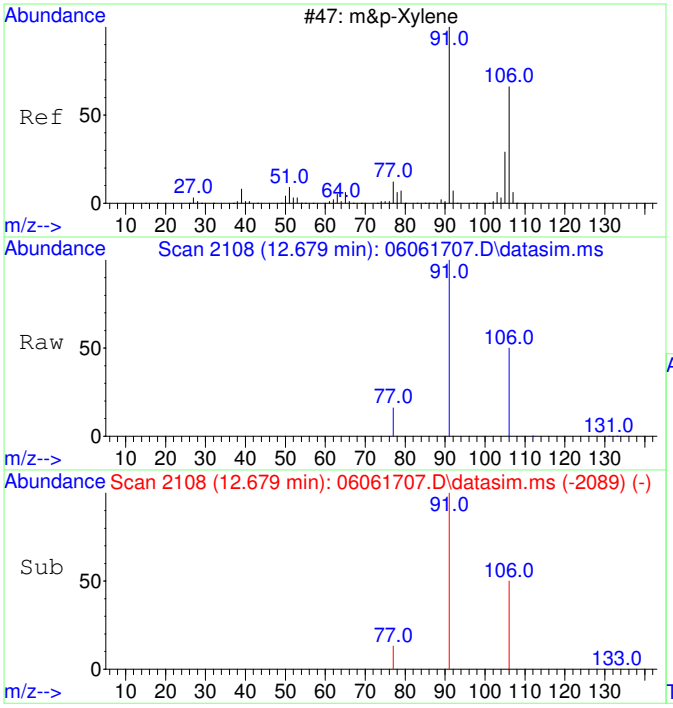


#18
Ethylbenzene
Concen: 151.38 ug/L
RT: 12.480 min Scan# 2083
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 30016

Ion	Ratio	Lower	Upper
91	100		
106	30.8	1.2	61.2
77	9.1	0.0	38.6

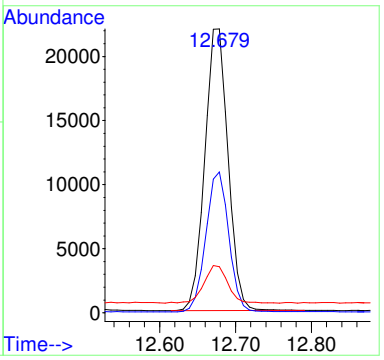


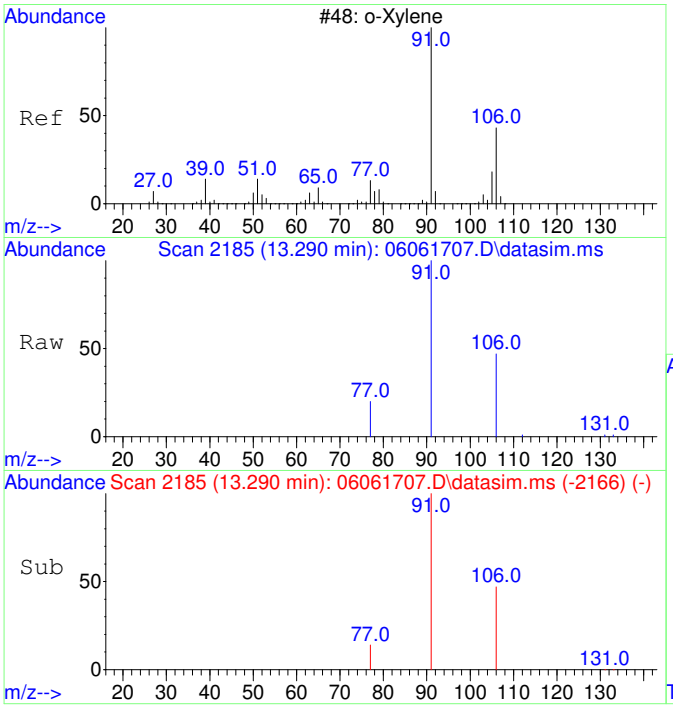


#19
m&p-Xylene
Concen: 300.92 ug/L
RT: 12.679 min Scan# 2108
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 46809

Ion	Ratio	Lower	Upper
91	100		
106	48.8	18.4	78.4
77	13.4	0.0	43.0

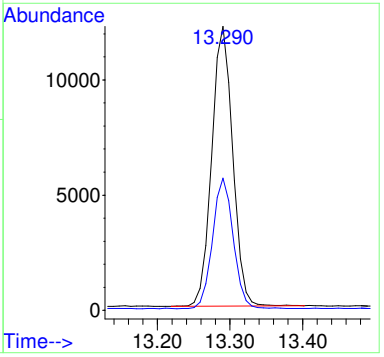


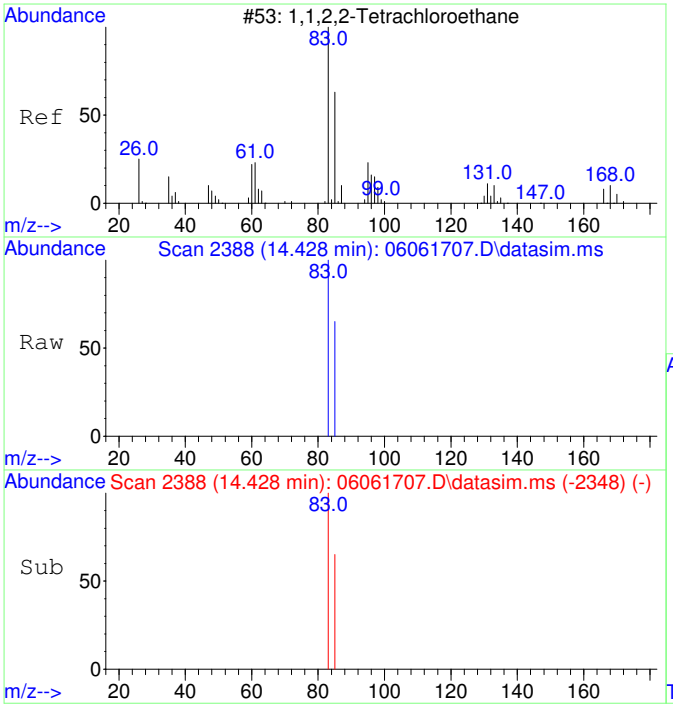


#20
o-Xylene
Concen: 151.70 ug/L
RT: 13.290 min Scan# 2185
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 24405

Ion	Ratio	Lower	Upper
91	100		
106	46.0	16.0	76.0

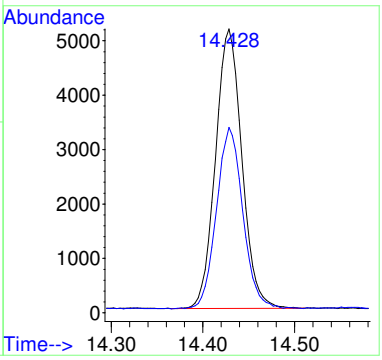


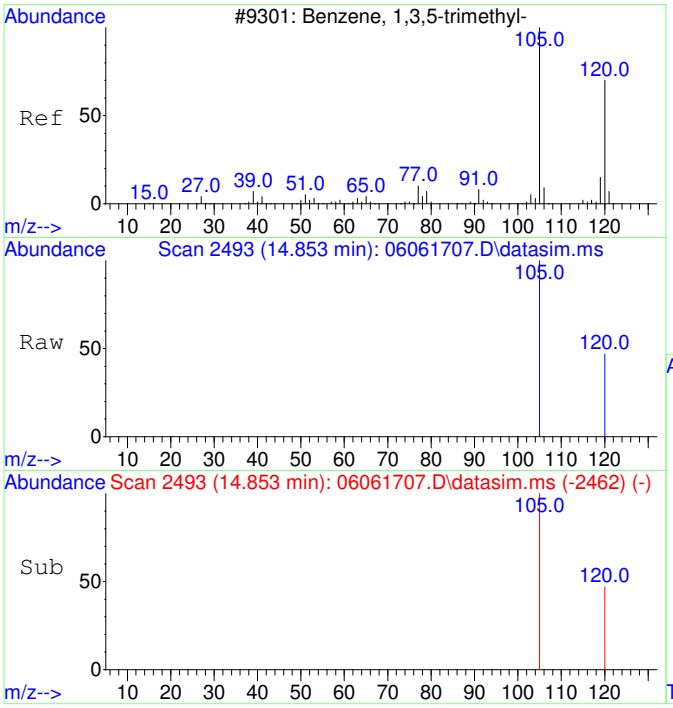


#21
1,1,2,2-Tetrachloroethane
Concen: 150.24 ug/L
RT: 14.428 min Scan# 2388
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 83 Resp: 10279

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.2	94.2

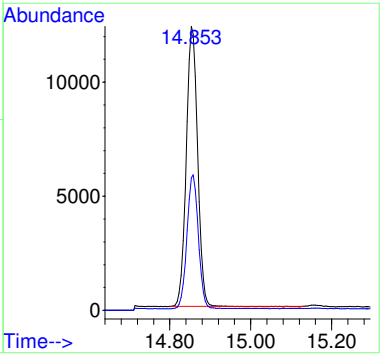


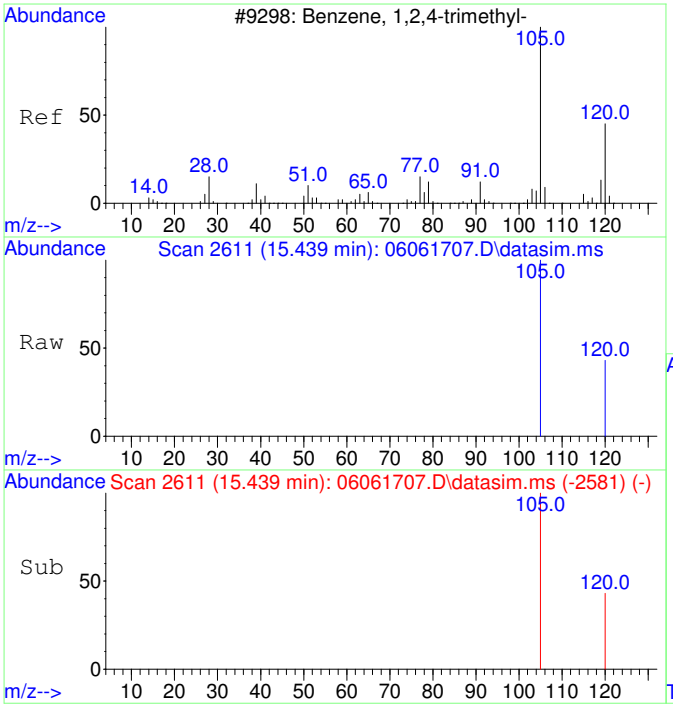


#22
1,3,5-Trimethylbenzene
Concen: 148.64 ug/L
RT: 14.853 min Scan# 2493
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:105 Resp: 23610

Ion	Ratio	Lower	Upper
105	100		
120	48.3	18.0	78.0

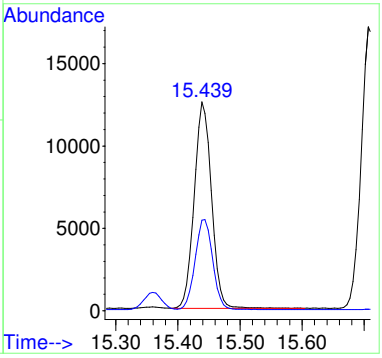


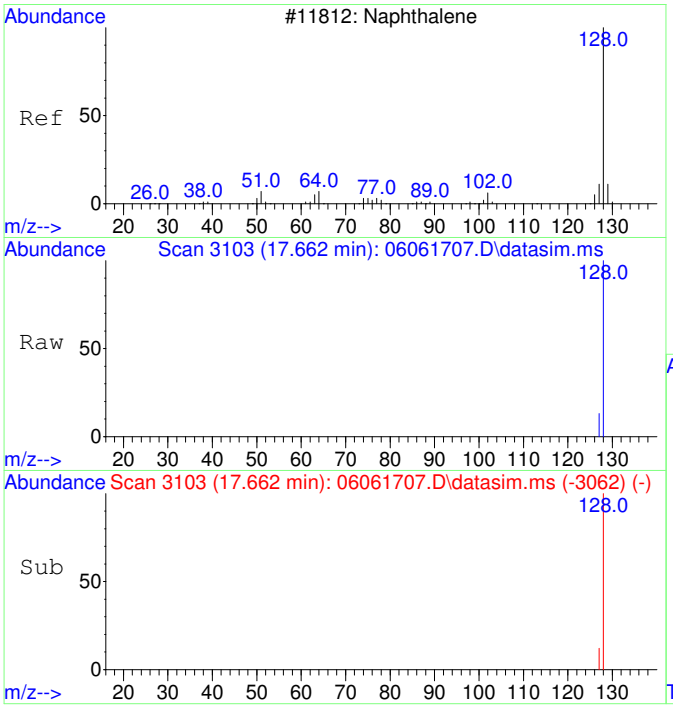


#23
1,2,4-Trimethylbenzene
Concen: 148.58 ug/L
RT: 15.439 min Scan# 2611
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:105 Resp: 24195

Ion	Ratio	Lower	Upper
105	100		
120	44.2	14.4	74.4

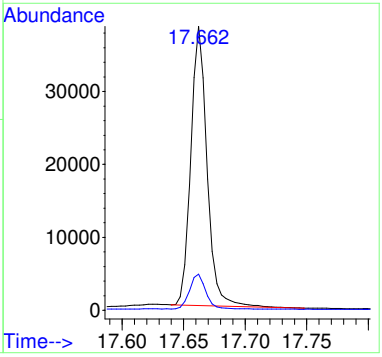


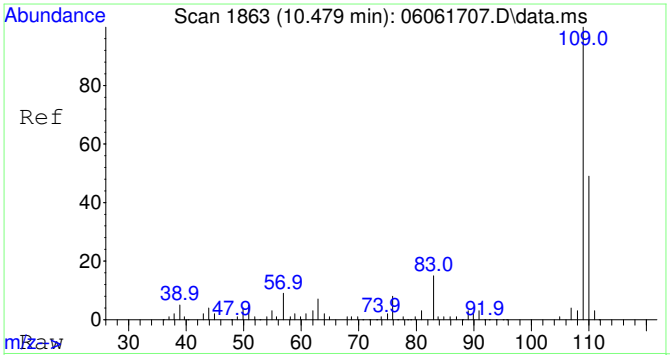


#24
Naphthalene
Concen: 145.40 ug/L
RT: 17.662 min Scan# 3103
Delta R.T. 0.001 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:128 Resp: 35064

Ion	Ratio	Lower	Upper
128	100		
127	13.0	0.0	42.7

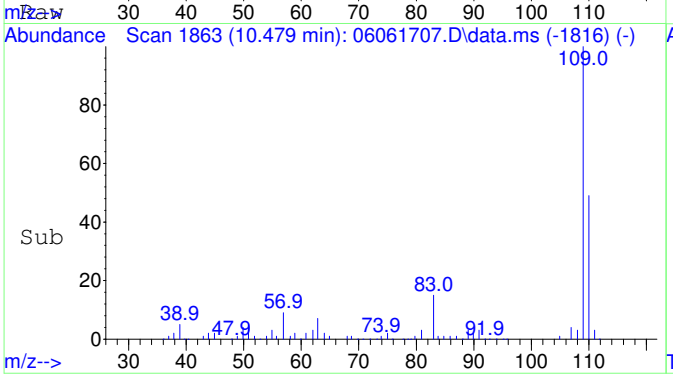


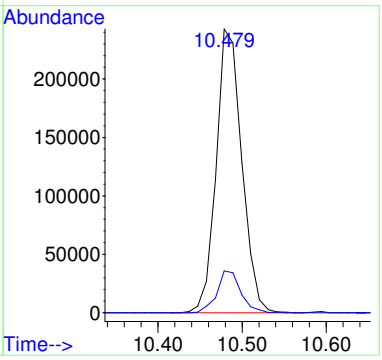


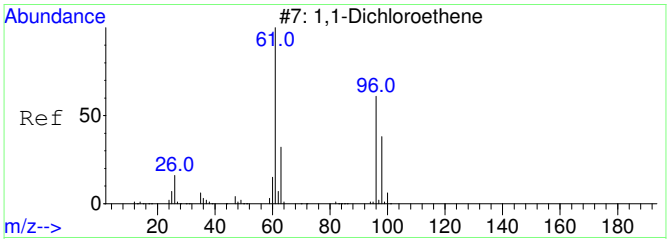
#25
2-Fluorotoluene SCAN
Concen: 4982.82 ug/L
RT: 10.479 min Scan# 1863
Delta R.T. -0.011 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:109 Resp: 513248

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	46.1



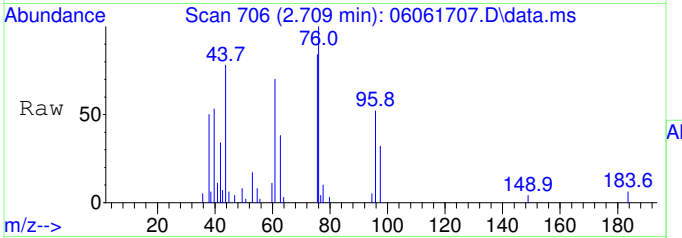


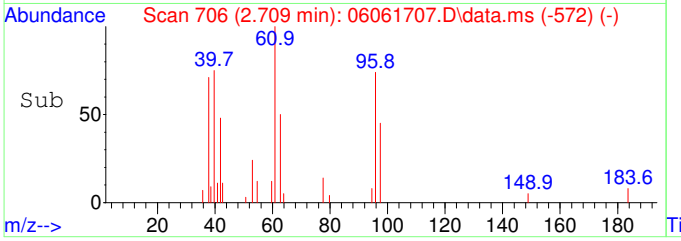


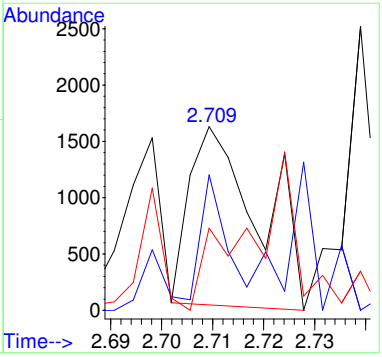
#26
1,1-Dichloroethene SCAN
Concen: 34.73 ug/L
RT: 2.709 min Scan# 706
Delta R.T. -0.004 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

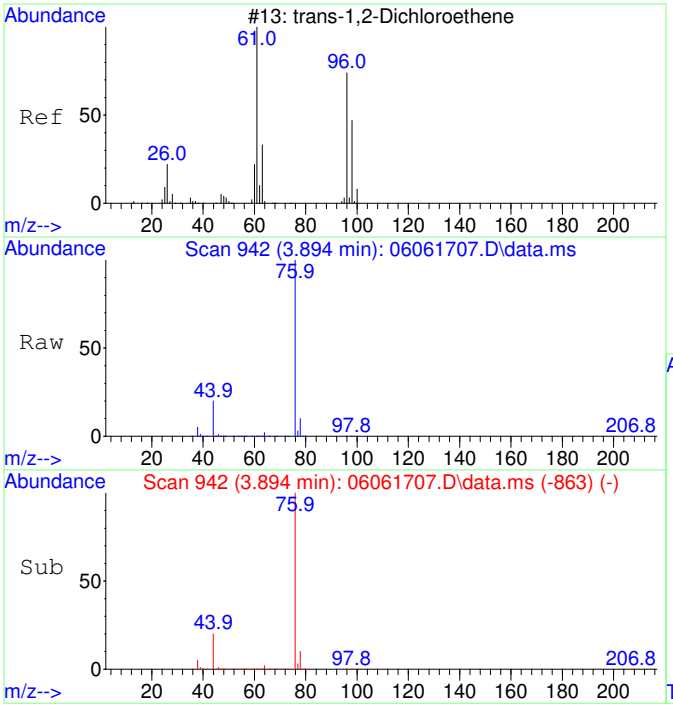
Tgt Ion: 61 Resp: 1505

Ion	Ratio	Lower	Upper
61	100		
96	23.3	16.7	76.7
98	0.0	0.0	45.3





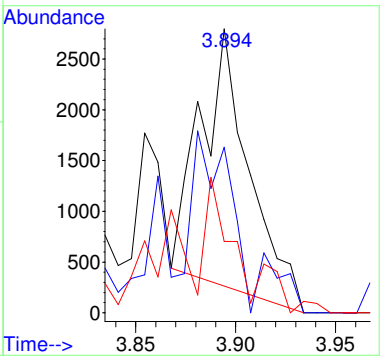


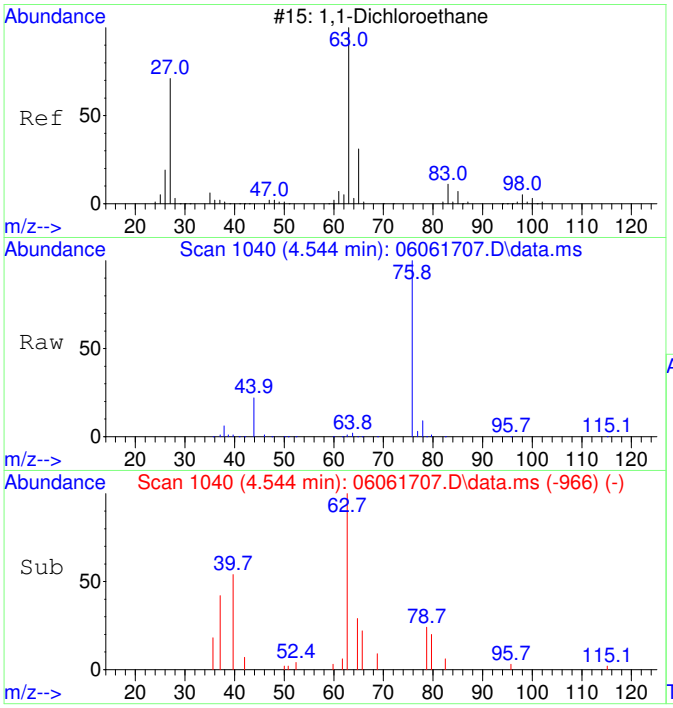


#27
trans-1,2-Dichloroethene SCAN
Concen: 91.44 ug/L
RT: 3.894 min Scan# 942
Delta R.T. 0.026 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 61 Resp: 4229

Ion	Ratio	Lower	Upper
61	100		
96	45.9	26.1	86.1
98	29.2	4.4	64.4

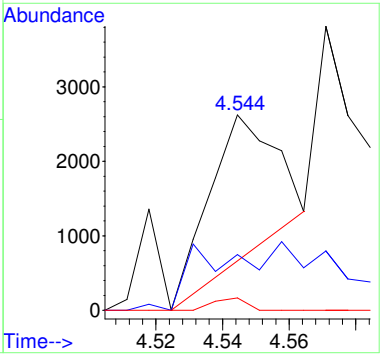


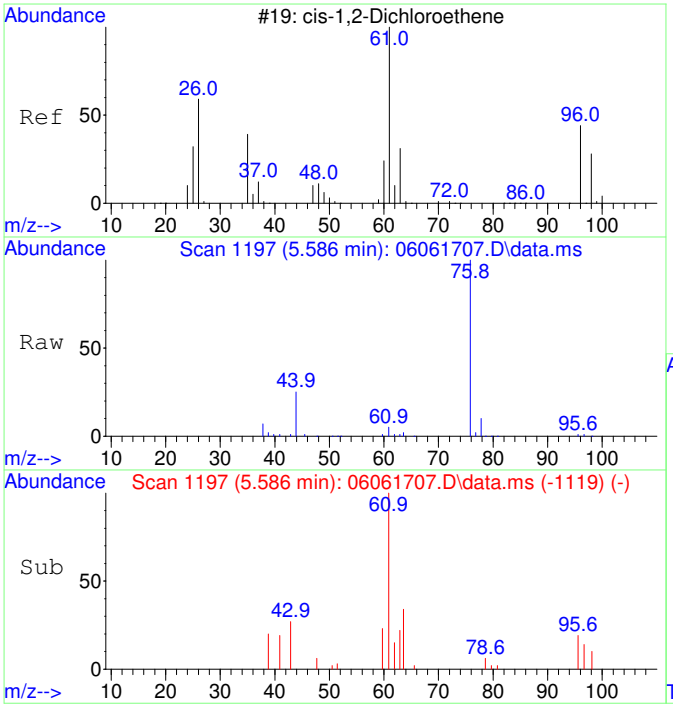


#28
1,1-Dichloroethane SCAN
Concen: 53.78 ug/L
RT: 4.544 min Scan# 1040
Delta R.T. -0.007 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 63 Resp: 2836

Ion	Ratio	Lower	Upper
63	100		
65	0.0	1.1	61.1#
83	4.1	0.0	31.5

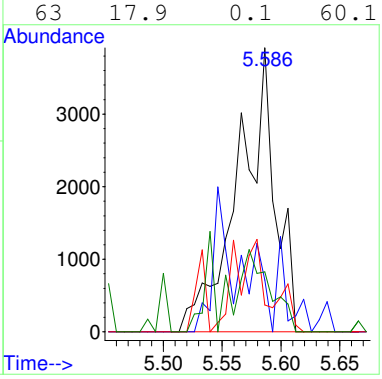


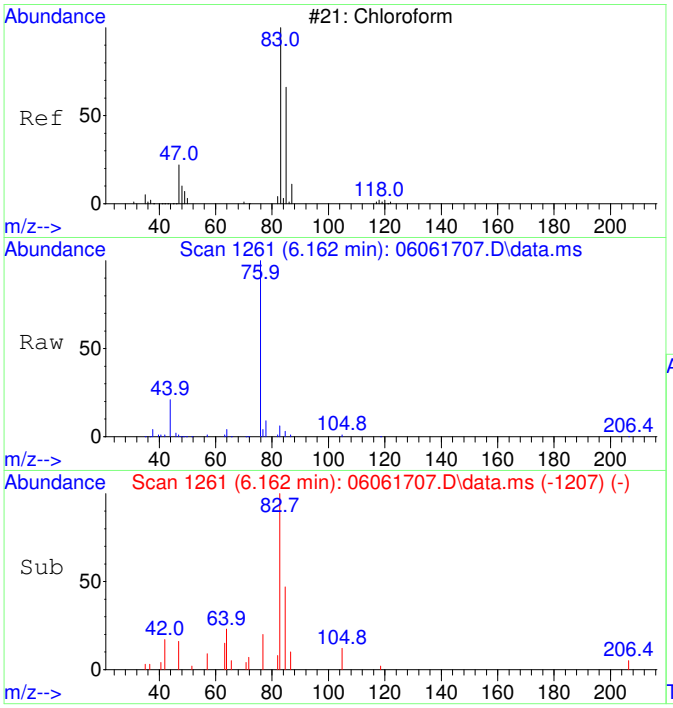


#29
cis-1,2-Dichloroethene SCAN
Concen: 160.29 ug/L
RT: 5.586 min Scan# 1197
Delta R.T. 0.020 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 61 Resp: 8552

Ion	Ratio	Lower	Upper
61	100		
96	11.9	17.5	77.5#
98	15.9	1.9	61.9
63	17.9	0.1	60.1

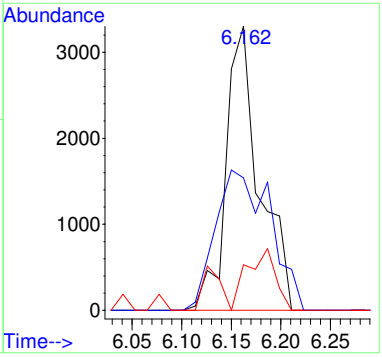


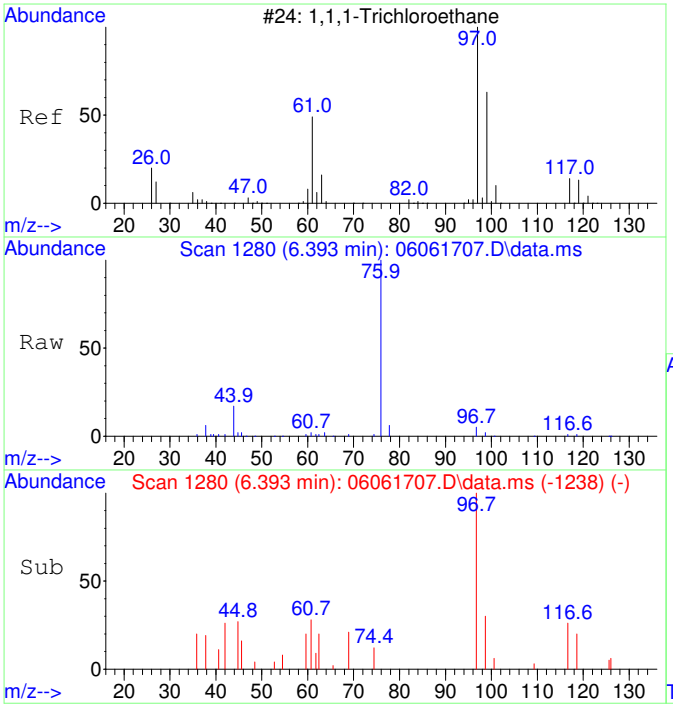


#30
Chloroform SCAN
Concen: 160.71 ug/L
RT: 6.162 min Scan# 1261
Delta R.T. 0.012 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 83 Resp: 7732

Ion	Ratio	Lower	Upper
83	100		
85	81.7	31.2	91.2
47	0.0	3.2	63.2#

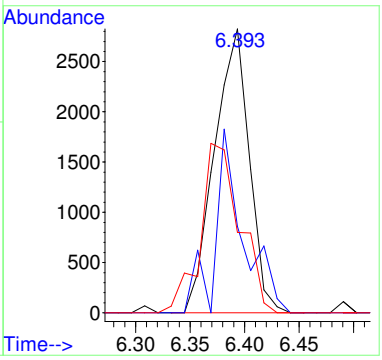


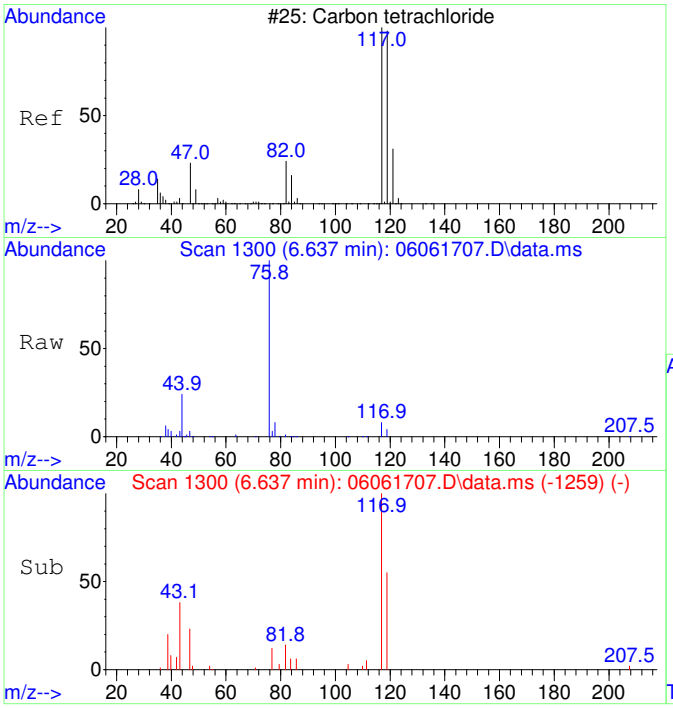


#31
1,1,1-Trichloroethane SCAN
Concen: 158.59 ug/L
RT: 6.393 min Scan# 1280
Delta R.T. 0.012 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 97 Resp: 6279

Ion	Ratio	Lower	Upper
97	100		
99	52.7	38.7	98.7
61	0.0	27.8	87.8#

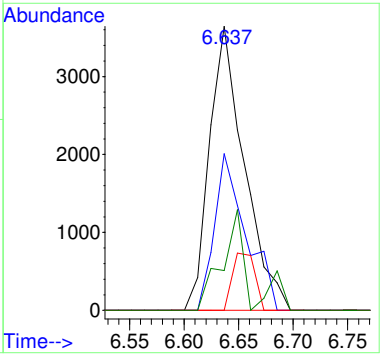


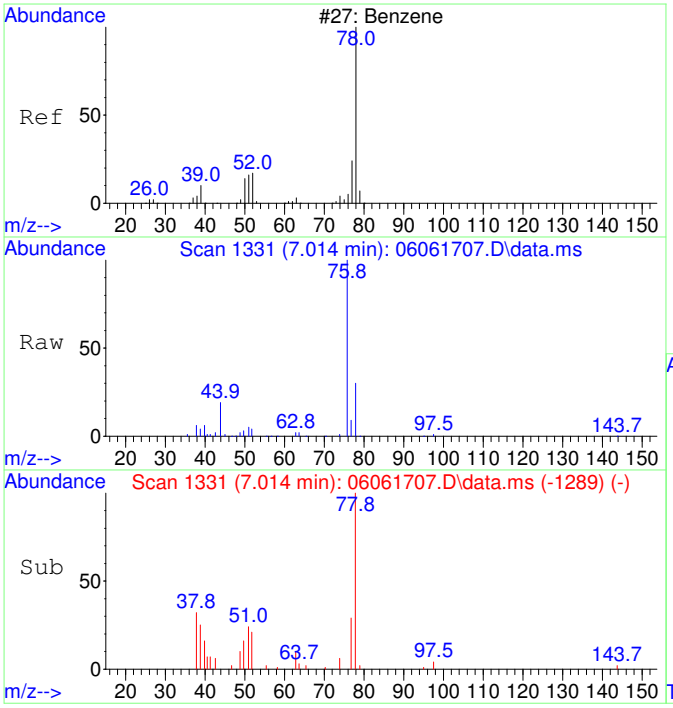


#32
Carbon tetrachloride SCAN
Concen: 223.41 ug/L
RT: 6.637 min Scan# 1300
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:117 Resp: 8143

Ion	Ratio	Lower	Upper
117	100		
119	49.8	66.8	126.8#
121	12.9	0.4	60.4
82	18.9	2.6	62.6

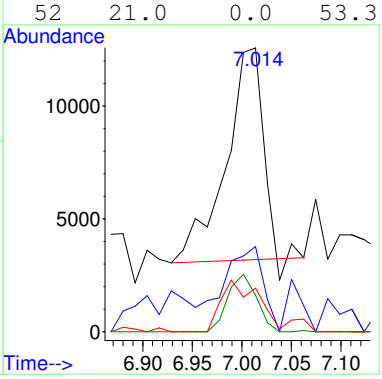


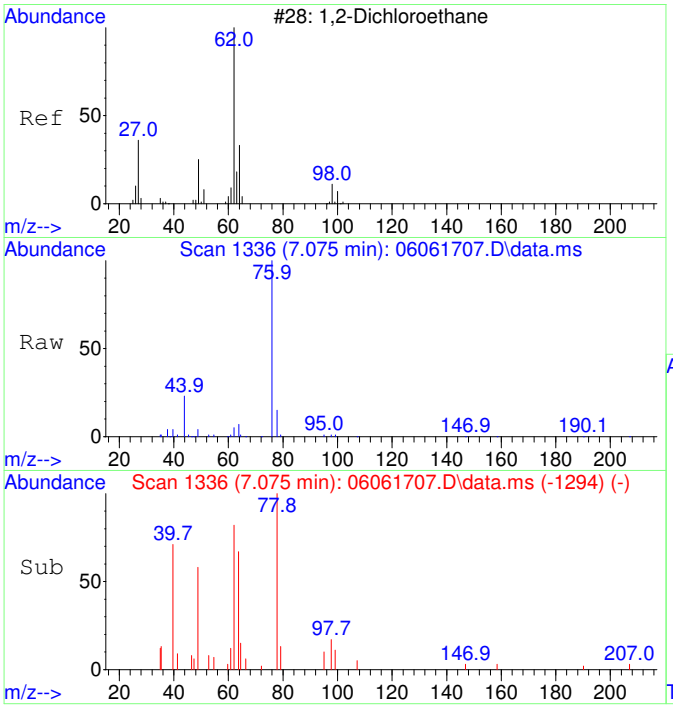


#33
Benzene SCAN
Concen: 226.03 ug/L
RT: 7.014 min Scan# 1331
Delta R.T. 0.012 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 78 Resp: 24647

Ion	Ratio	Lower	Upper
78	100		
77	32.2	0.0	55.2
51	0.0	0.0	52.4
52	21.0	0.0	53.3

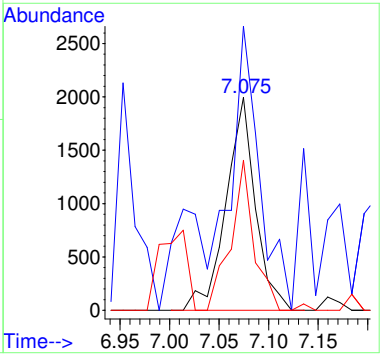


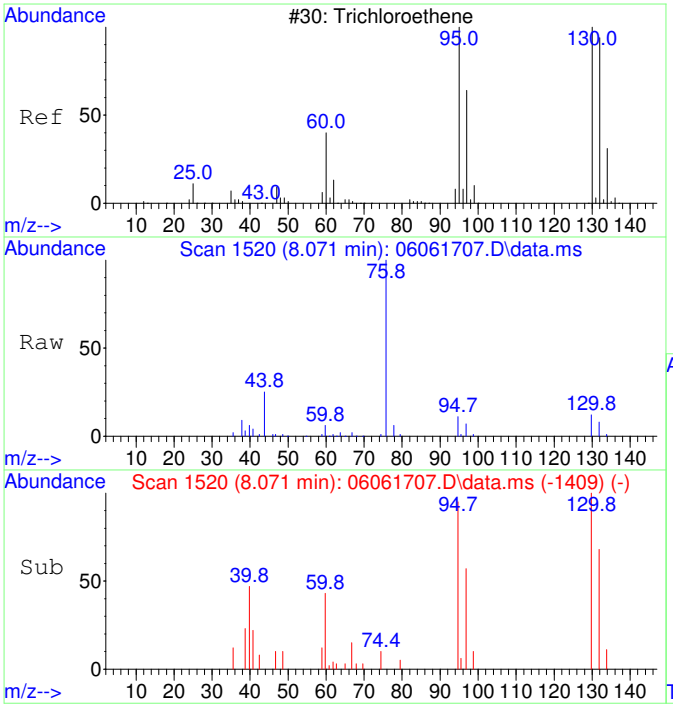


#34
1,2-Dichloroethane SCAN
Concen: 87.63 ug/L
RT: 7.075 min Scan# 1336
Delta R.T. 0.012 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 62 Resp: 4123

Ion	Ratio	Lower	Upper
62	100		
64	105.8	7.4	67.4#
49	55.5	0.0	54.8#

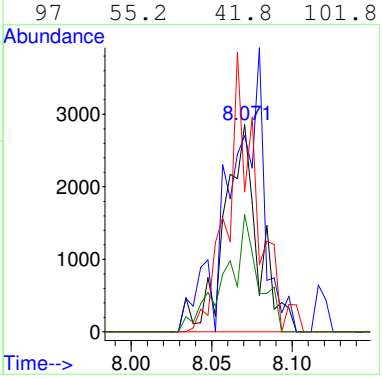


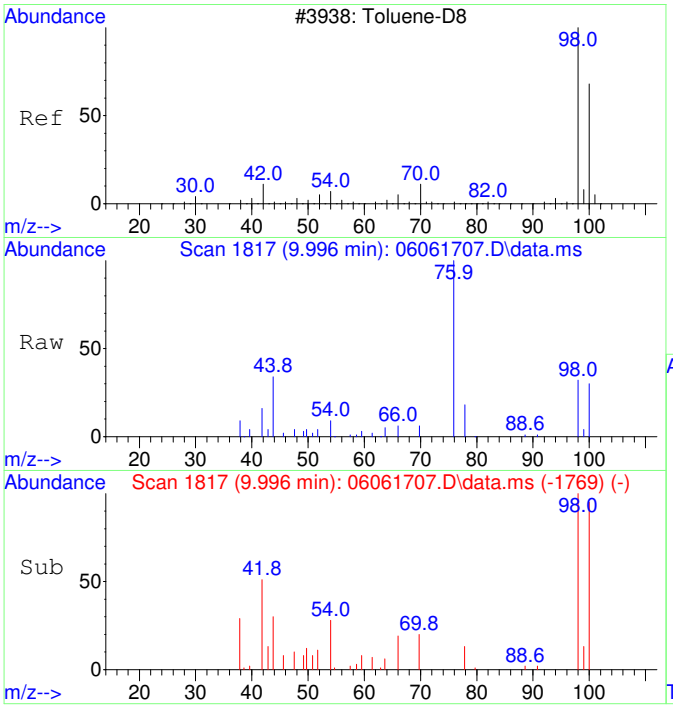


#35
Trichloroethene SCAN
Concen: 165.45 ug/L
RT: 8.071 min Scan# 1520
Delta R.T. 0.009 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:130 Resp: 4178

Ion	Ratio	Lower	Upper
130	100		
95	134.1	76.1	136.1
132	115.2	65.6	125.6
97	55.2	41.8	101.8

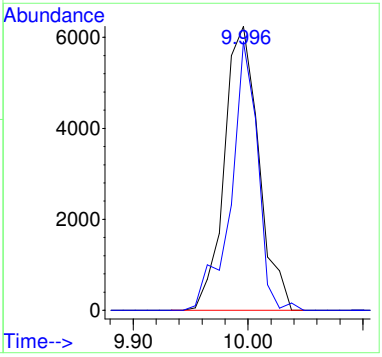


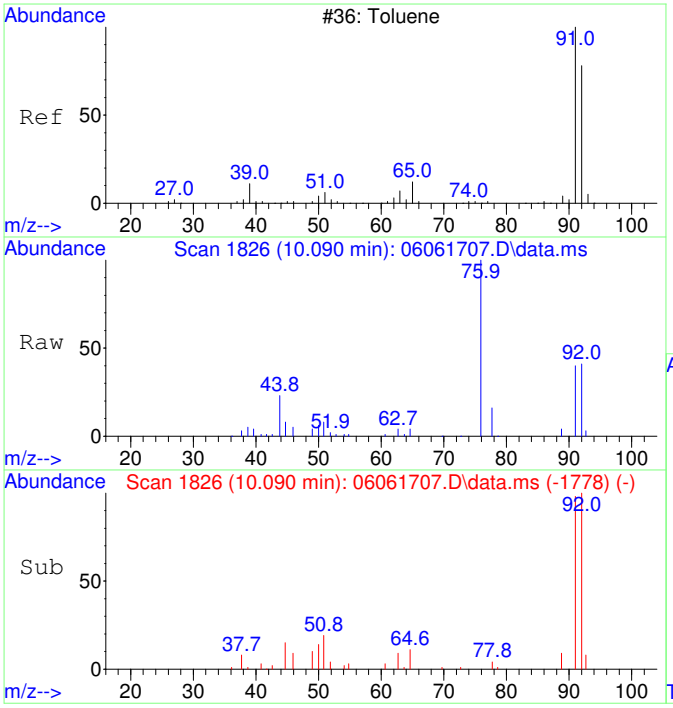


#36
Toluene-d8 SCAN
Concen: 152.71 ug/L
RT: 9.996 min Scan# 1817
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 98 Resp: 12982

Ion	Ratio	Lower	Upper
98	100		
100	73.7	36.2	96.2

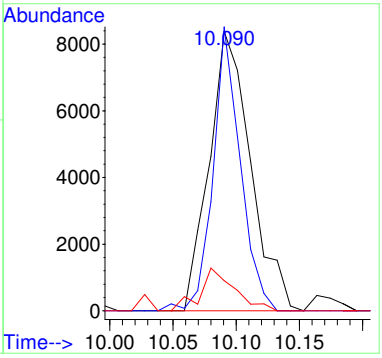


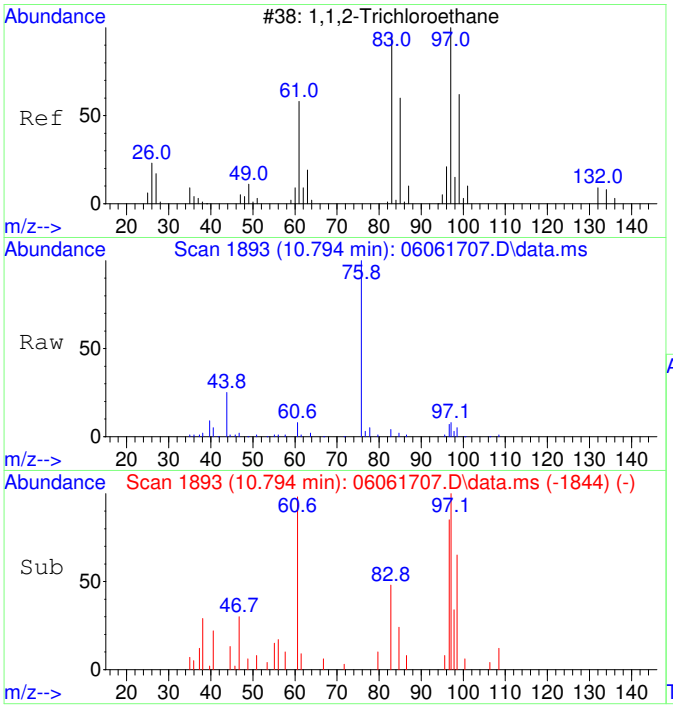


#37
Toluene SCAN
Concen: 168.78 ug/L
RT: 10.090 min Scan# 1826
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 19137

Ion	Ratio	Lower	Upper
91	100		
92	66.7	29.2	89.2
65	12.6	0.0	44.3

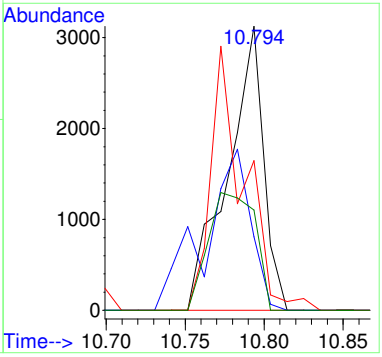


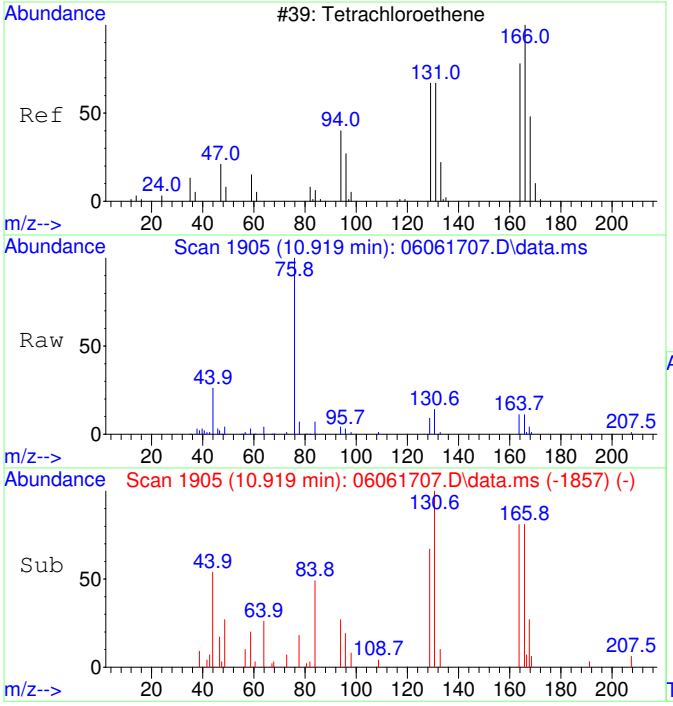


#38
1,1,2-Trichloroethane SCAN
Concen: 193.02 ug/L
RT: 10.794 min Scan# 1893
Delta R.T. 0.010 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 97 Resp: 4929

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.8	117.8#
61	0.0	48.6	108.6#
99	0.0	32.7	92.7#

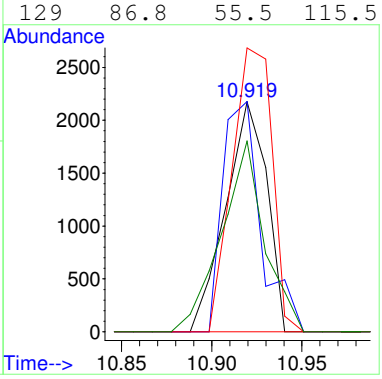


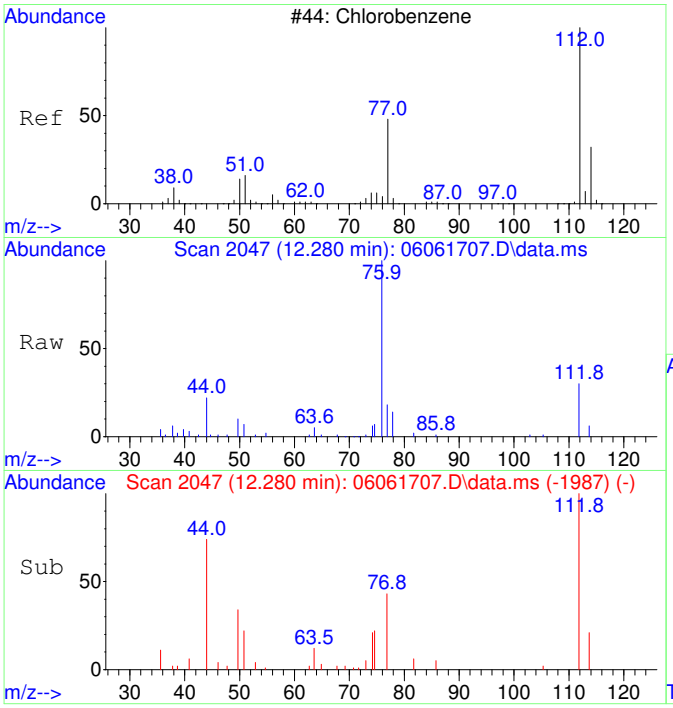


#39
Tetrachloroethene SCAN
Concen: 149.02 ug/L
RT: 10.919 min Scan# 1905
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:166 Resp: 3464

Ion	Ratio	Lower	Upper
166	100		
164	92.8	45.7	105.7
131	120.7	44.8	104.8#
129	86.8	55.5	115.5

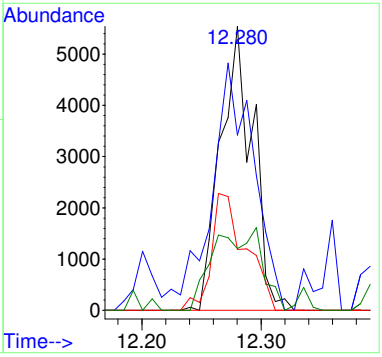


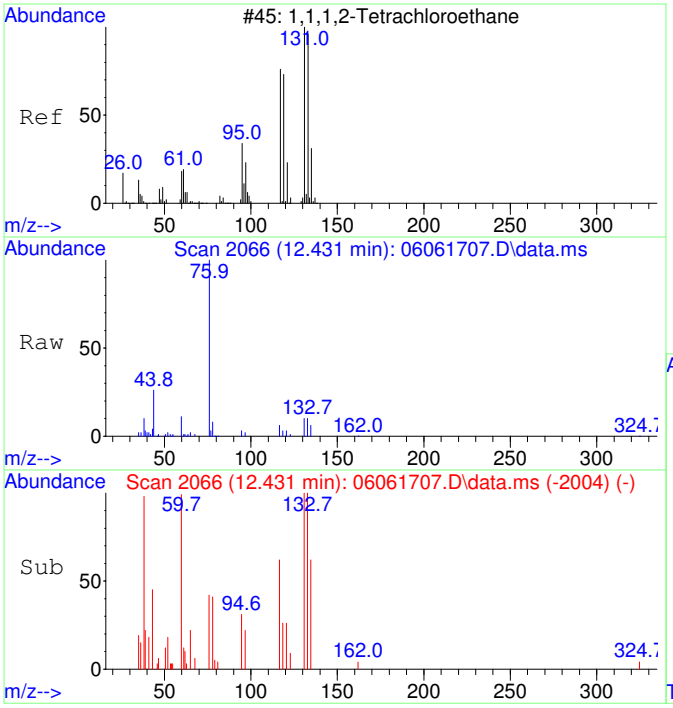


#40
Chlorobenzene SCAN
Concen: 150.52 ug/L
RT: 12.280 min Scan# 2047
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:112 Resp: 10483

Ion	Ratio	Lower	Upper
112	100		
77	0.0	35.1	95.1#
114	0.0	2.6	62.6#
51	43.1	3.7	63.7

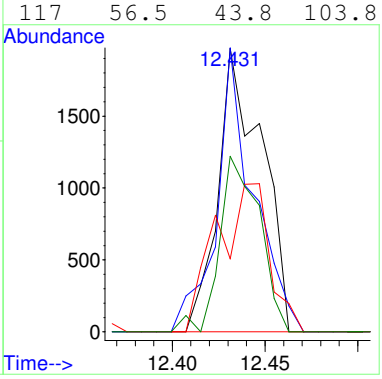


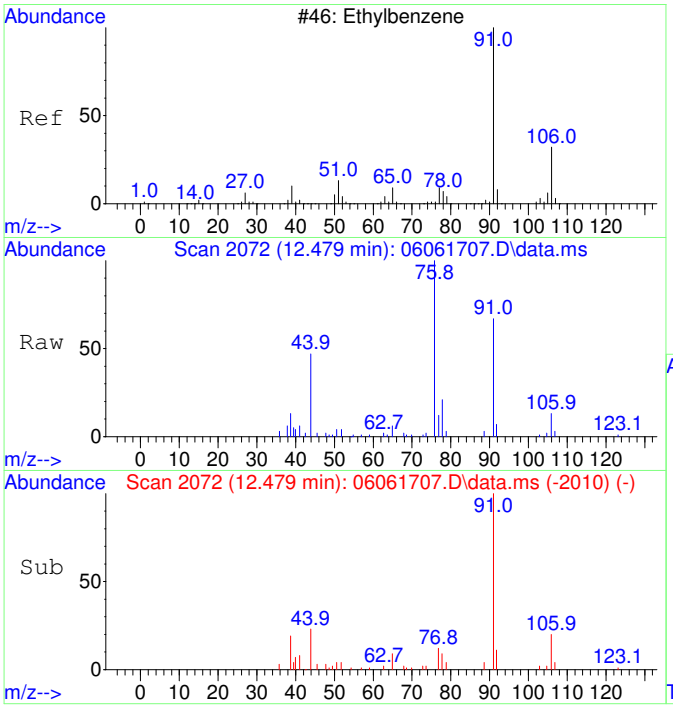


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 149.66 ug/L
RT: 12.431 min Scan# 2066
Delta R.T. -0.008 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:131 Resp: 3244

Ion	Ratio	Lower	Upper
131	100		
133	84.2	63.5	123.5
119	63.1	38.0	98.0
117	56.5	43.8	103.8

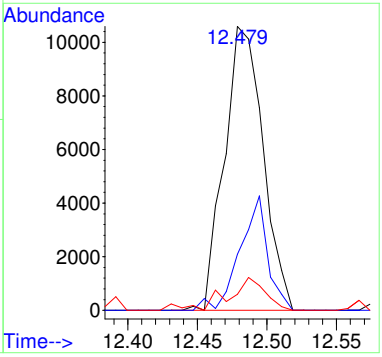


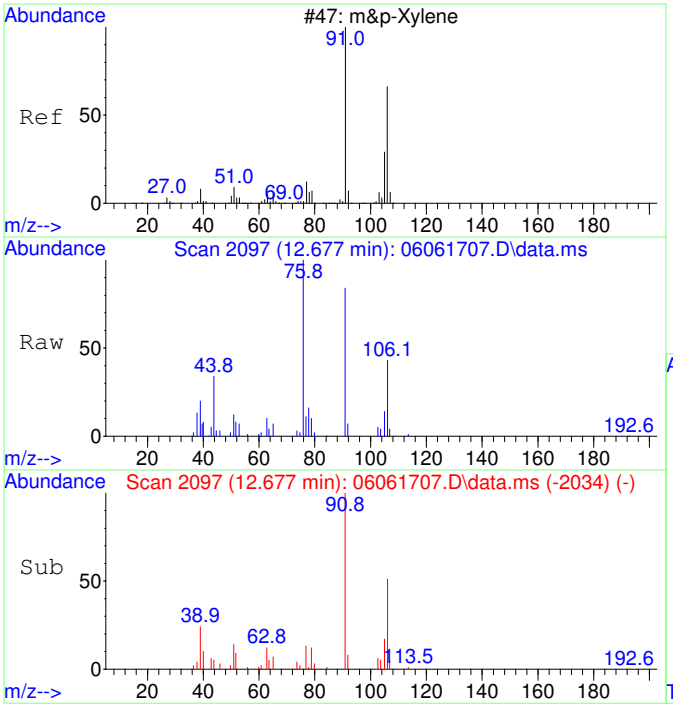


#42
Ethylbenzene SCAN
Concen: 161.32 ug/L
RT: 12.479 min Scan# 2072
Delta R.T. -0.008 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 20480

Ion	Ratio	Lower	Upper
91	100		
106	28.9	0.0	59.8
51	9.7	0.0	45.5

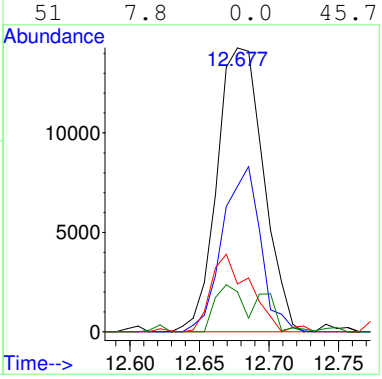


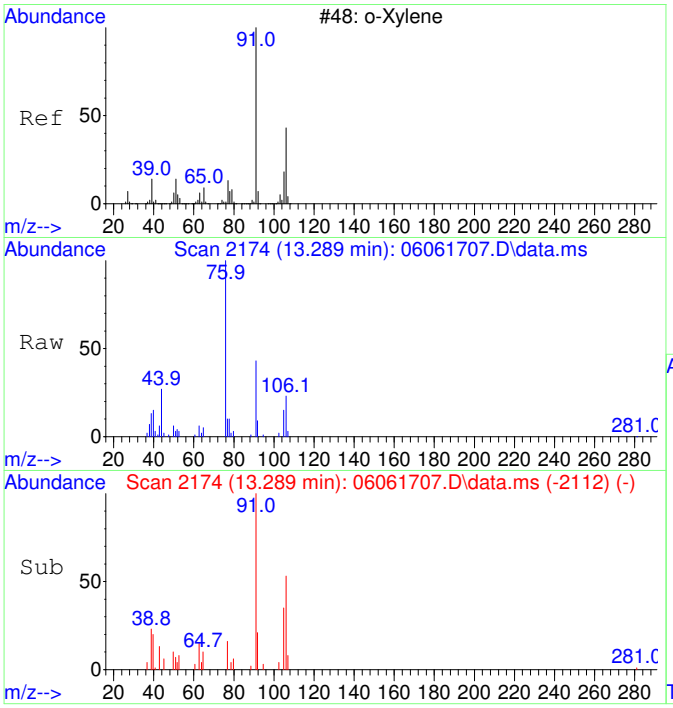


#43
m&p-Xylene SCAN
Concen: 167.69 ug/L
RT: 12.677 min Scan# 2097
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 33240

Ion	Ratio	Lower	Upper
91	100		
106	47.8	18.5	78.5
105	23.1	0.0	51.3
51	7.8	0.0	45.7

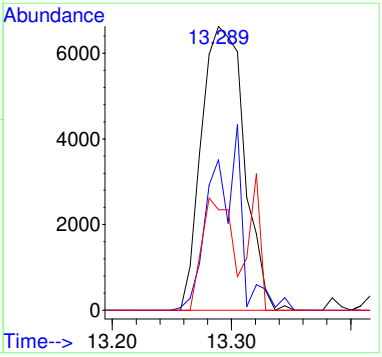


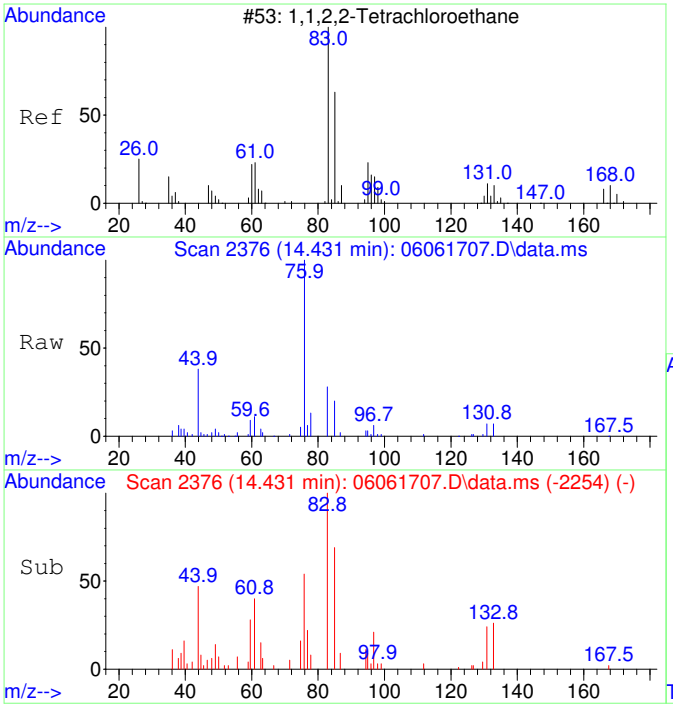


#44
o-Xylene SCAN
Concen: 161.86 ug/L
RT: 13.289 min Scan# 2174
Delta R.T. -0.008 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 91 Resp: 16521

Ion	Ratio	Lower	Upper
91	100		
106	0.0	15.5	75.5#
105	21.4	0.0	54.1

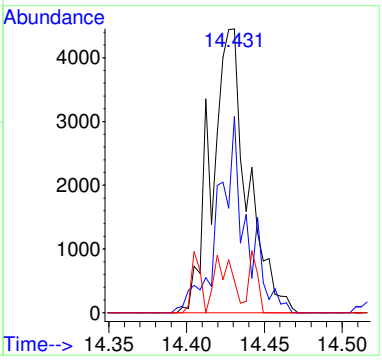


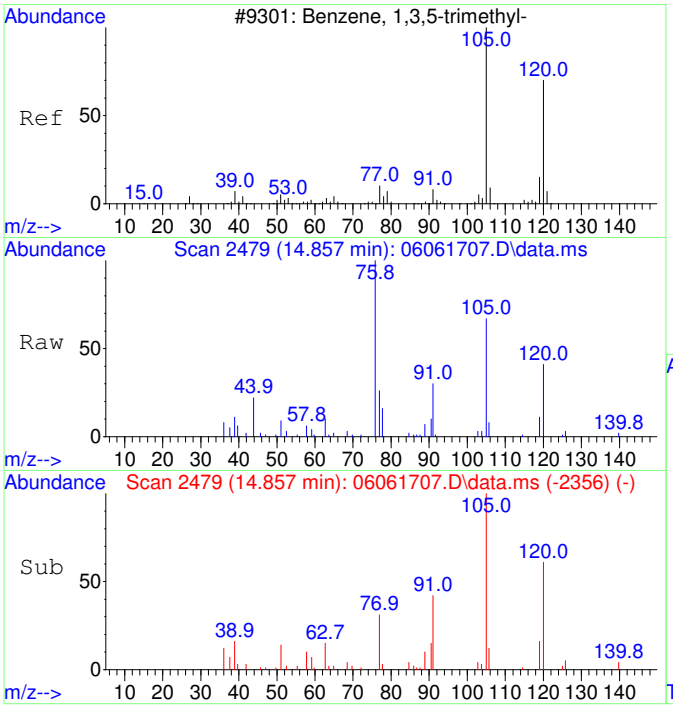


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 154.31 ug/L
RT: 14.431 min Scan# 2376
Delta R.T. 0.003 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion: 83 Resp: 7125

Ion	Ratio	Lower	Upper
83	100		
85	53.3	33.9	93.9
95	8.7	0.0	46.3

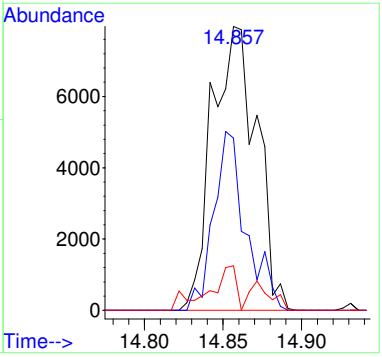


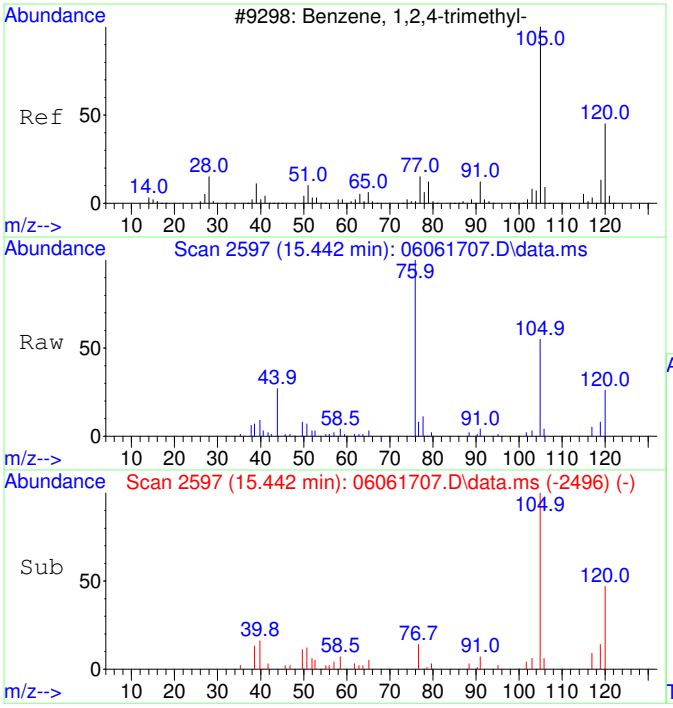


#46
1,3,5-Trimethylbenzene SCAN
Concen: 162.80 ug/L
RT: 14.857 min Scan# 2479
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:105 Resp: 15763

Ion	Ratio	Lower	Upper
105	100		
120	45.3	17.3	77.3
119	5.8	0.0	42.7

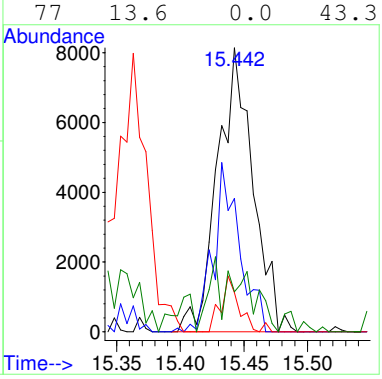


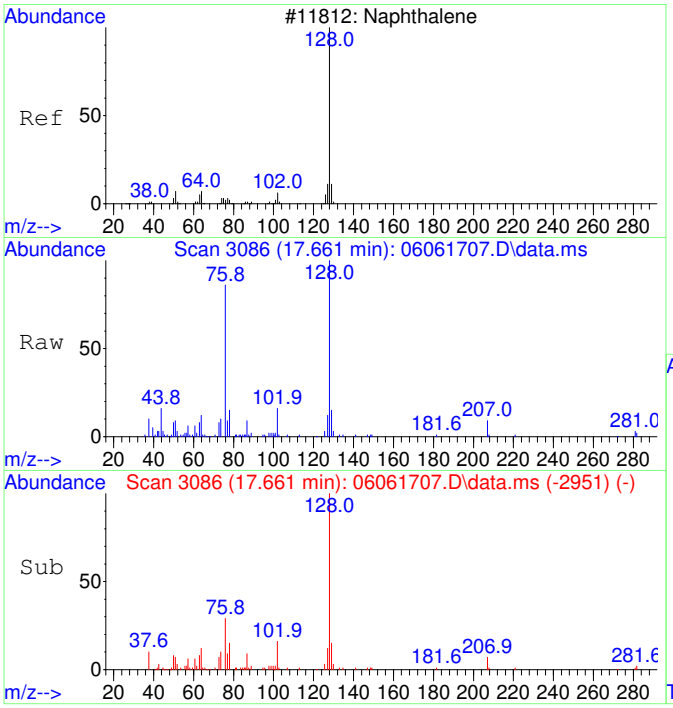


#47
1,2,4-Trimethylbenzene SCAN
Concen: 156.45 ug/L
RT: 15.442 min Scan# 2597
Delta R.T. -0.000 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:105 Resp: 15785

Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.9	72.9#
119	9.7	0.0	40.5
77	13.6	0.0	43.3

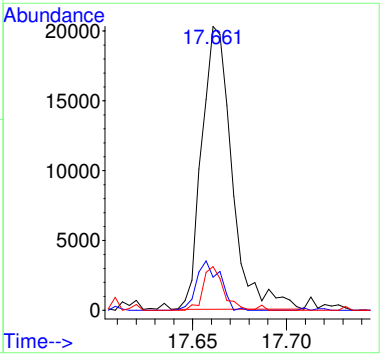




#48
Naphthalene SCAN
Concen: 163.00 ug/L
RT: 17.661 min Scan# 3086
Delta R.T. 0.001 min
Lab File: 06061707.D
Acq: 6 Jun 2017 13:39

Tgt Ion:128 Resp: 22682

Ion	Ratio	Lower	Upper
128	100		
127	13.6	0.0	43.9
129	10.0	0.0	41.0



S17F020-CAL6

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061708.D
Acq On : 6 Jun 2017 14:03
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL6
Misc : 1717062 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 15:09:12 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration

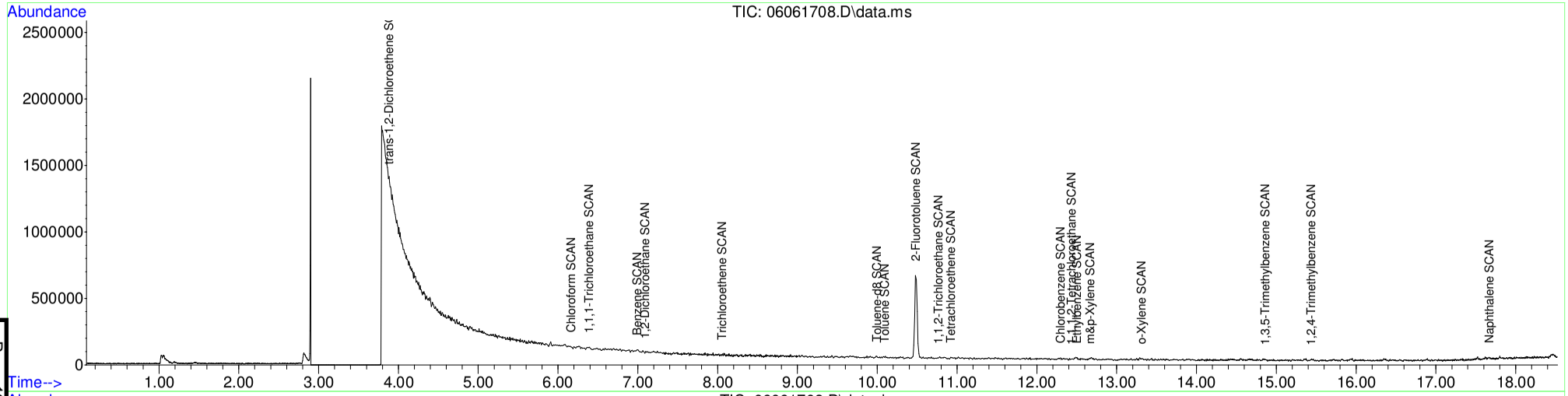
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.481	109	837314	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	9.987	98	6844	49.91	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.00%#		
Target Compounds						Qvalue
2] 1,1-Dichloroethene	2.711	61	3531	51.92	ug/L	98
3] trans-1,2-Dichloroethene	3.883	61	3580	50.02	ug/L	66
4] 1,1-Dichloroethane	4.559	63	3668	47.54	ug/L	99
5] cis-1,2-Dichloroethene	5.575	61	3528	47.84	ug/L	97
6] Chloroform	6.152	83	3759	52.68	ug/L	96
7] 1,1,1-Trichloroethane	6.383	97	3164	48.28	ug/L	100
8] Carbon tetrachloride	6.638	117	2714	48.01	ug/L	100
9] Benzene	6.991	78	12265	73.81	ug/L	98
10] 1,2-Dichloroethane	7.064	62	2966	48.18	ug/L	86
11] Trichloroethene	8.068	130	2095	49.02	ug/L	99
13] Toluene	10.092	91	10284	56.63	ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	1937	49.88	ug/L	98
15] Tetrachloroethene	10.921	166	2295	49.31	ug/L	98
16] Chlorobenzene	12.274	112	5669	49.15	ug/L	94
17] 1,1,1,2-Tetrachloroethane	12.433	131	1810	47.81	ug/L	97
18] Ethylbenzene	12.481	91	9446	48.33	ug/L	98
19] m&p-Xylene	12.679	91	14667	95.67	ug/L	99
20] o-Xylene	13.291	91	7684	48.46	ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.428	83	3216	47.69	ug/L	100
22] 1,3,5-Trimethylbenzene	14.855	105	7110	45.42	ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	7283	45.38	ug/L	99
24] Naphthalene	17.662	128	9258	38.95	ug/L	99
25) 2-Fluorotoluene SCAN	10.479	109	500578	4930.90	ug/L	95
27) trans-1,2-Dichloroethe...	3.875	61	2726	59.80	ug/L #	40
30) Chloroform SCAN	6.163	83	2590	54.62	ug/L #	64
31) 1,1,1-Trichloroethane ...	6.382	97	1731	44.36	ug/L #	49
33) Benzene SCAN	6.990	78	16834	156.64	ug/L	83
34) 1,2-Dichloroethane SCAN	7.087	62	2883	62.17	ug/L #	1
35) Trichloroethene SCAN	8.057	130	1872	75.22	ug/L #	48
36) Toluene-d8 SCAN	9.997	98	4621	55.15	ug/L	85
37) Toluene SCAN	10.091	91	7672	68.65	ug/L #	86
38) 1,1,2-Trichloroethane ...	10.763	97	1258	49.98	ug/L #	30
39) Tetrachloroethene SCAN	10.920	166	1429	62.38	ug/L	89
40) Chlorobenzene SCAN	12.297	112	3269	47.62	ug/L #	72
41) 1,1,1,2-Tetrachloroeth...	12.432	131	679	31.78	ug/L #	78
42) Ethylbenzene SCAN	12.495	91	8321	66.50	ug/L #	79
43) m&p-Xylene SCAN	12.662	91	9688	49.59	ug/L #	81
44) o-Xylene SCAN	13.305	91	6622	65.82	ug/L #	38
46) 1,3,5-Trimethylbenzene...	14.863	105	3045	31.91	ug/L	93
47) 1,2,4-Trimethylbenzene...	15.429	105	6444	64.80	ug/L #	58
48) Naphthalene SCAN	17.669	128	5590	40.76	ug/L	86

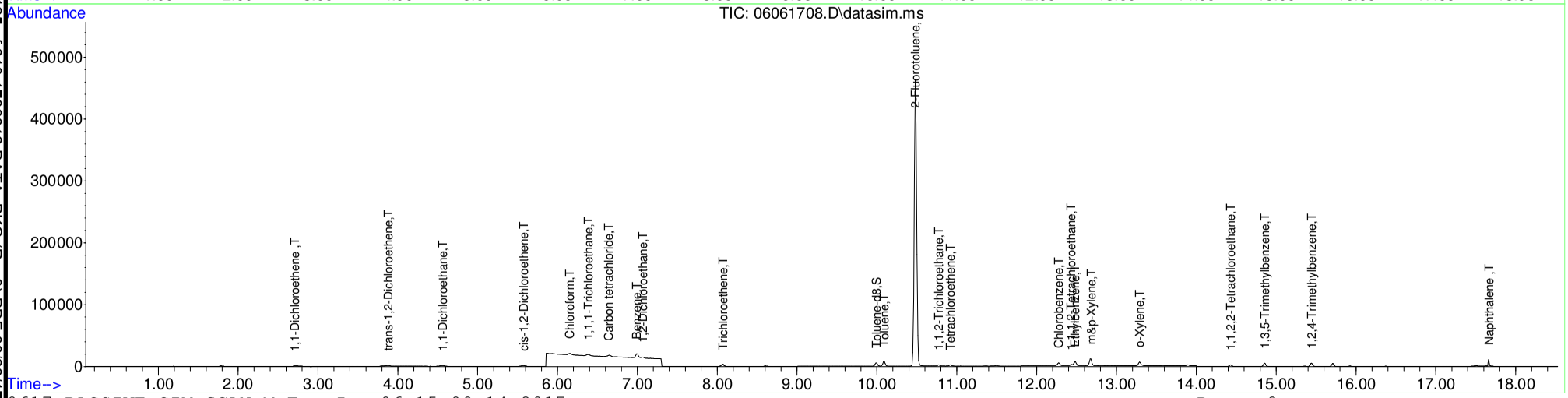
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061708.D
Acq On : 6 Jun 2017 14:03
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL6
Misc : 1717062 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 15:09:12 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration





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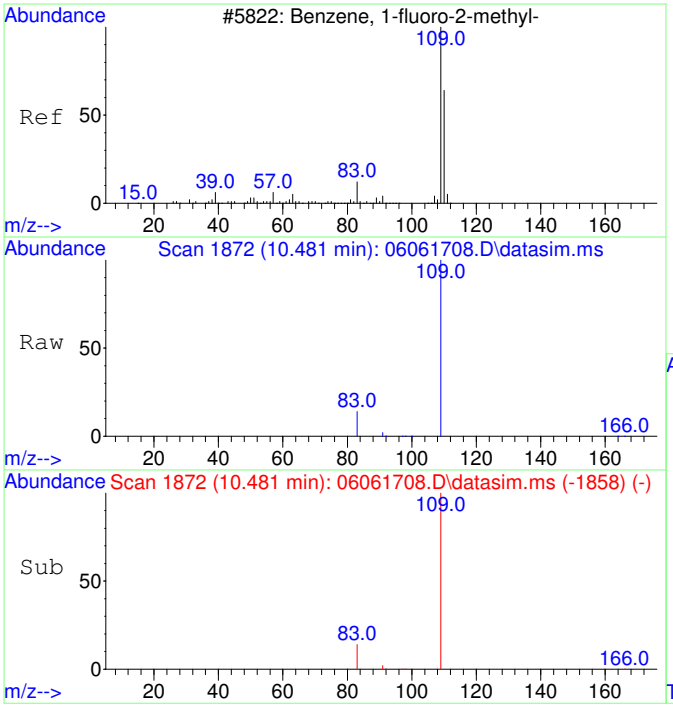
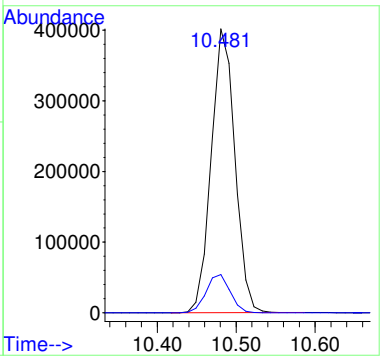
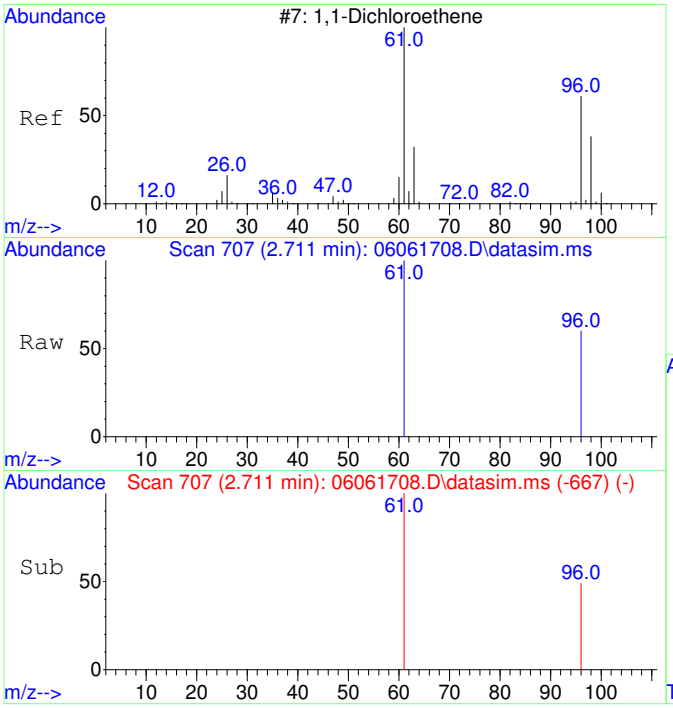


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.481 min Scan# 1872
Delta R.T. 0.001 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:109 Resp: 837314

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	44.4

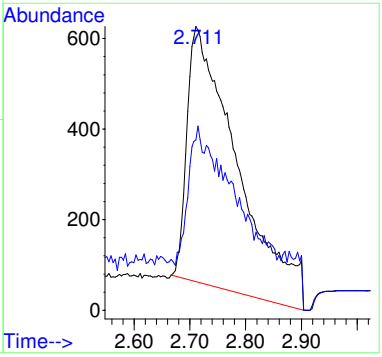




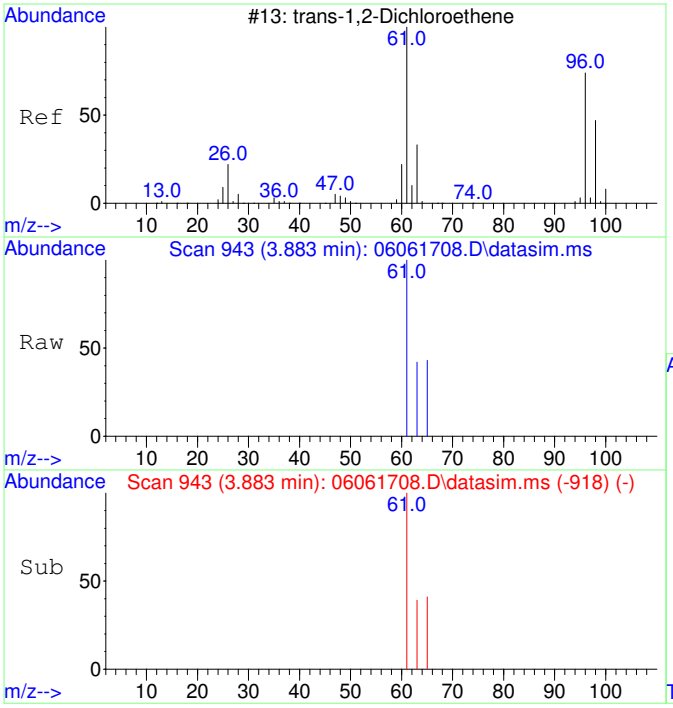
#2
1,1-Dichloroethene
Concen: 51.92 ug/L
RT: 2.711 min Scan# 707
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 61 Resp: 3531

Ion	Ratio	Lower	Upper
61	100		
96	53.0	21.8	81.8



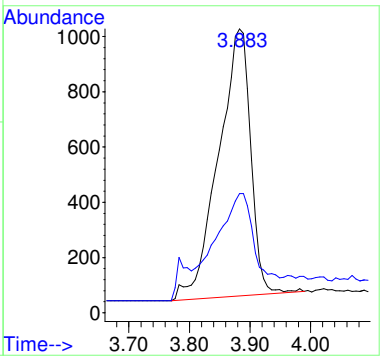
Before MI:
IMPROPER
BASELINE

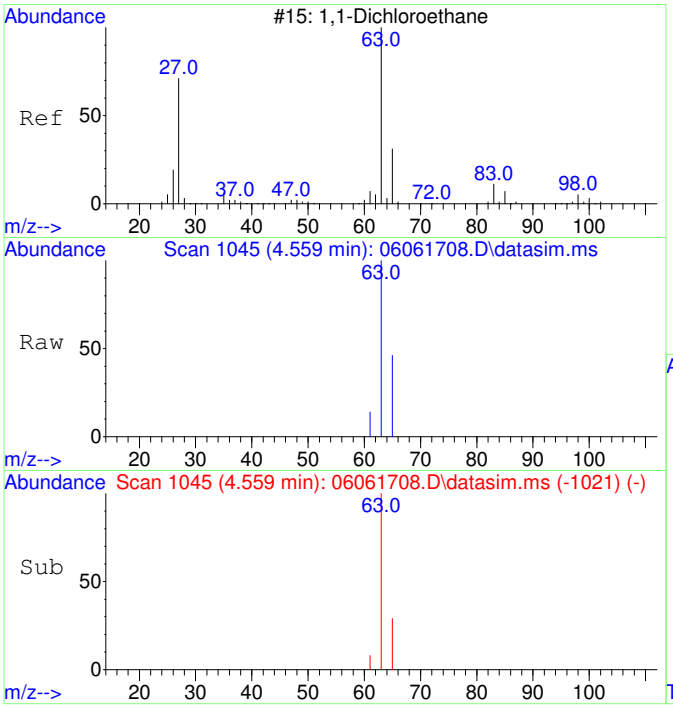


#3
trans-1,2-Dichloroethene
Concen: 50.02 ug/L
RT: 3.883 min Scan# 943
Delta R.T. 0.013 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 61 Resp: 3580

Ion	Ratio	Lower	Upper
61	100		
63	49.6	1.0	61.0

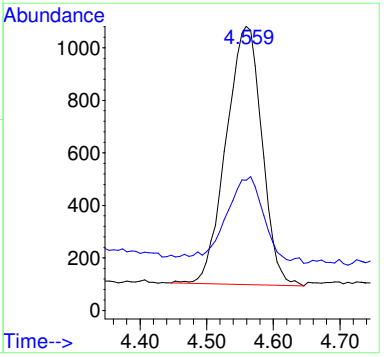


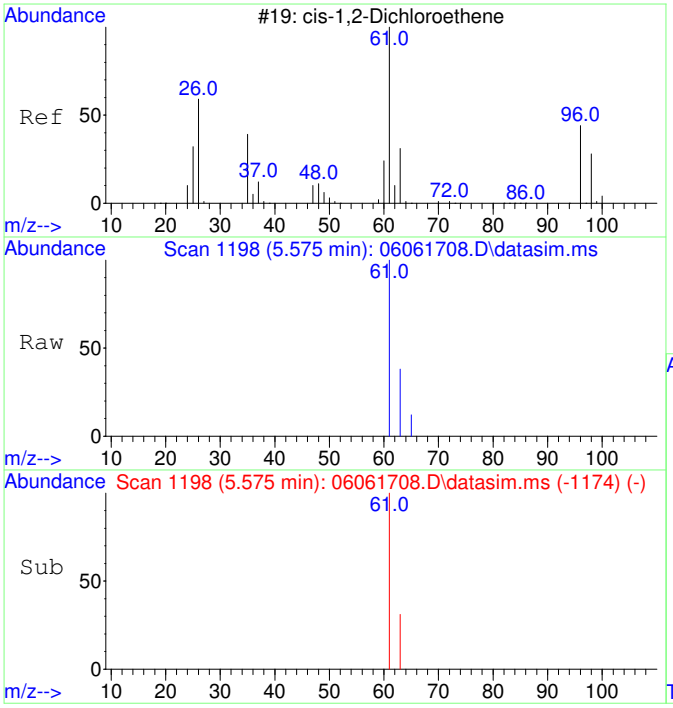


#4
1,1-Dichloroethane
Concen: 47.54 ug/L
RT: 4.559 min Scan# 1045
Delta R.T. 0.007 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 63 Resp: 3668

Ion	Ratio	Lower	Upper
63	100		
65	30.9	0.5	60.5

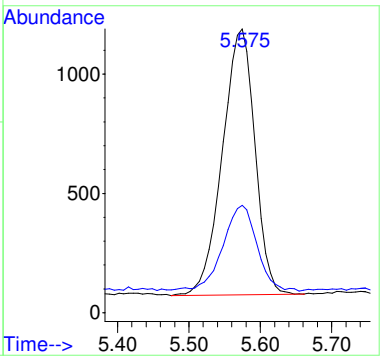


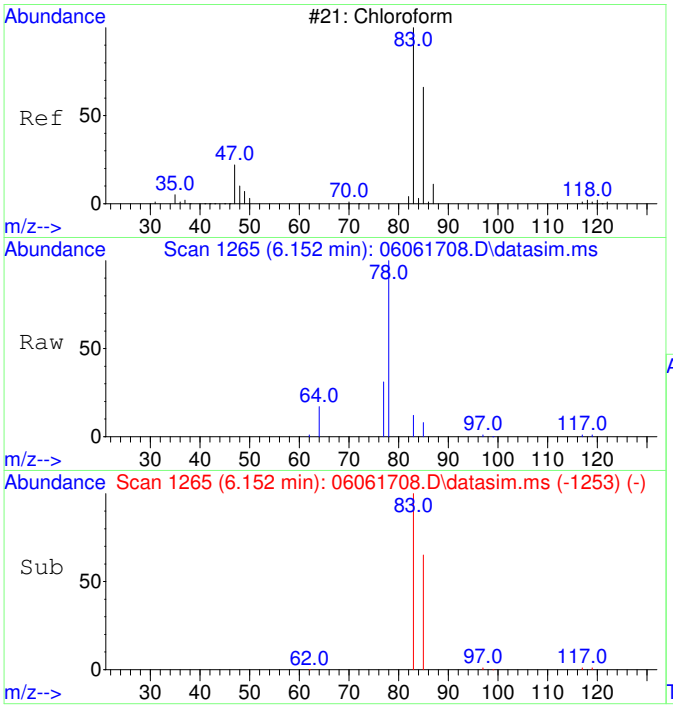


#5
cis-1,2-Dichloroethene
Concen: 47.84 ug/L
RT: 5.575 min Scan# 1198
Delta R.T. 0.007 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 61 Resp: 3528

Ion	Ratio	Lower	Upper
61	100		
63	32.3	0.9	60.9

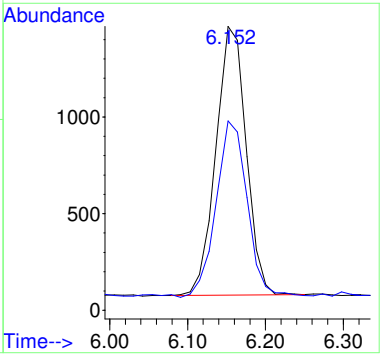


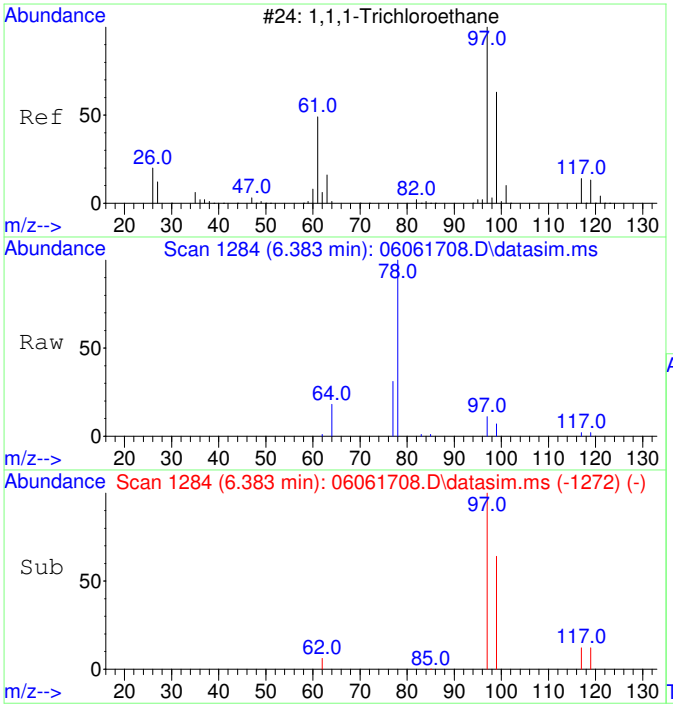


#6
Chloroform
Concen: 52.68 ug/L
RT: 6.152 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 83 Resp: 3759

Ion	Ratio	Lower	Upper
83	100		
85	66.7	33.7	93.7

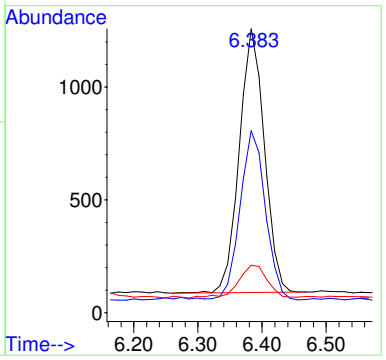


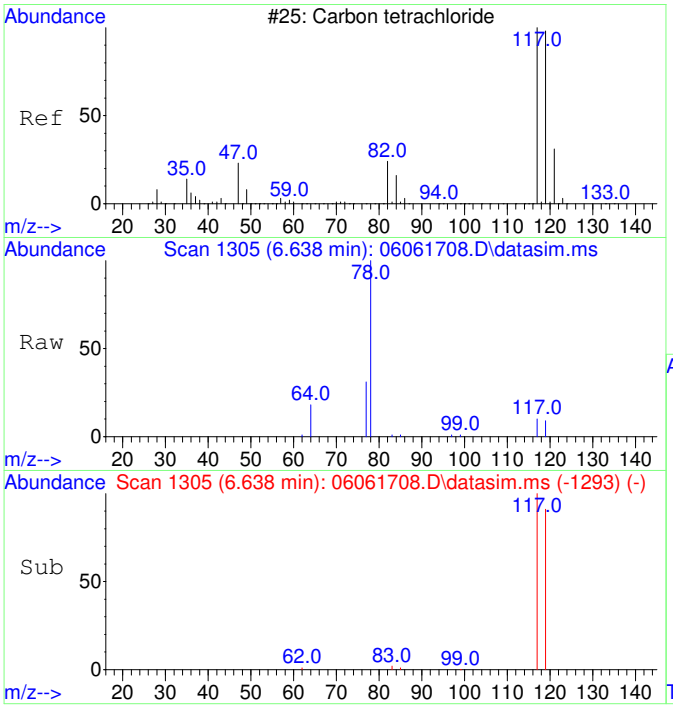


#7
1,1,1-Trichloroethane
Concen: 48.28 ug/L
RT: 6.383 min Scan# 1284
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 97 Resp: 3164

Ion	Ratio	Lower	Upper
97	100		
99	64.0	34.3	94.3
117	12.5	0.0	42.3

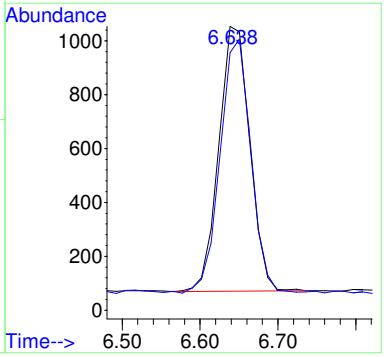


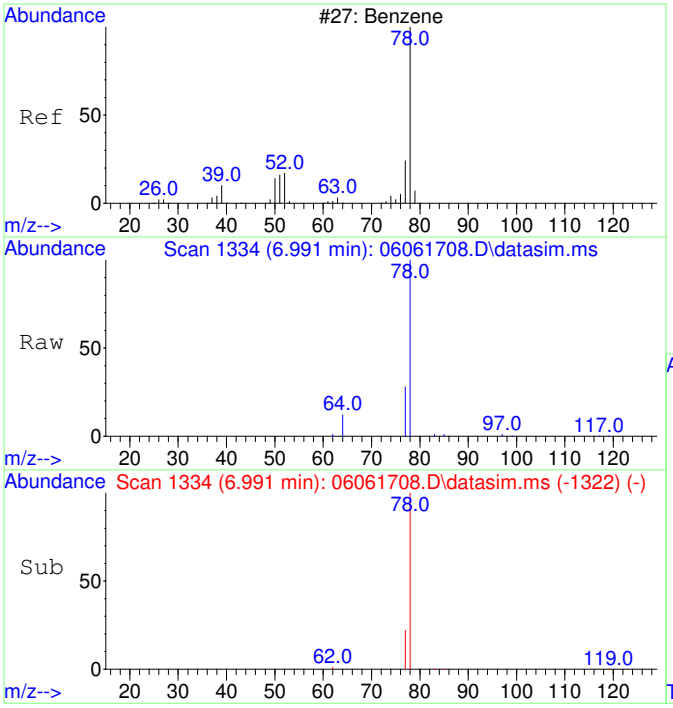


#8
Carbon tetrachloride
Concen: 48.01 ug/L
RT: 6.638 min Scan# 1305
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:117 Resp: 2714

Ion	Ratio	Lower	Upper
117	100		
119	95.0	65.4	125.4

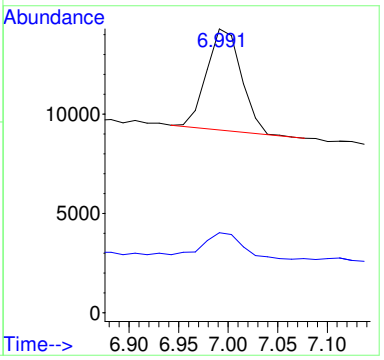


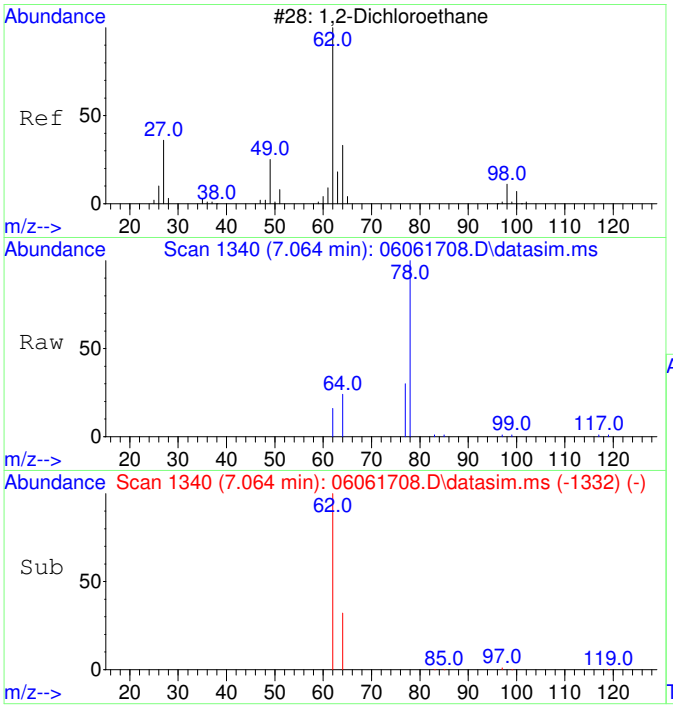


#9
Benzene
Concen: 73.81 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 78 Resp: 12265

Ion	Ratio	Lower	Upper
78	100		
77	24.2	0.0	53.0

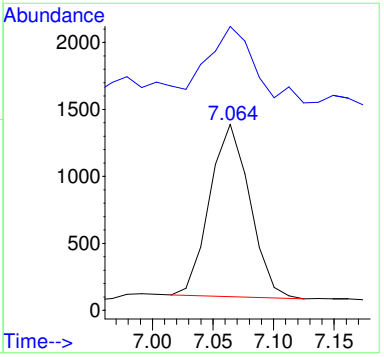


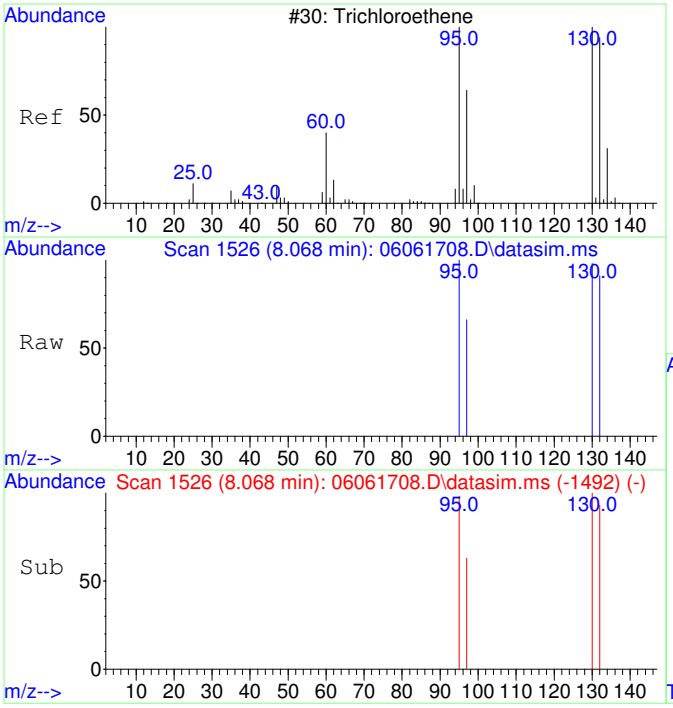


#10
1,2-Dichloroethane
Concen: 48.18 ug/L
RT: 7.064 min Scan# 1340
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 62 Resp: 2966

Ion	Ratio	Lower	Upper
62	100		
64	40.4	2.6	62.6

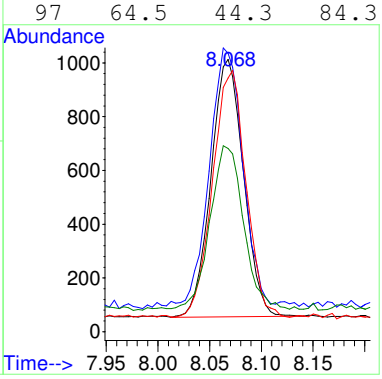


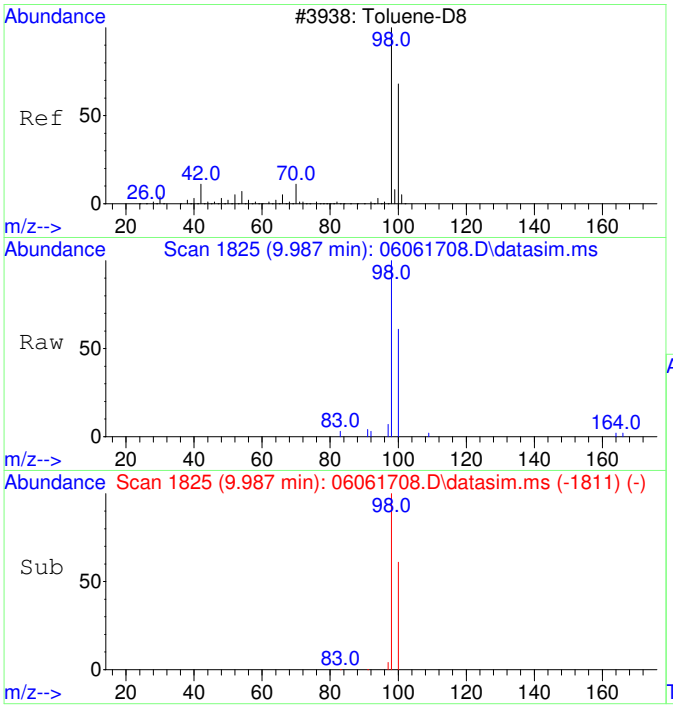


#11
Trichloroethene
Concen: 49.02 ug/L
RT: 8.068 min Scan# 1526
Delta R.T. 0.005 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:130 Resp: 2095

Ion	Ratio	Lower	Upper
130	100		
95	100.8	69.8	129.8
132	97.9	76.4	116.4
97	64.5	44.3	84.3

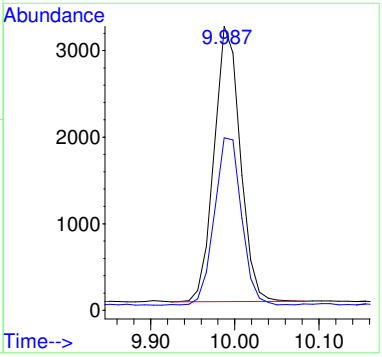


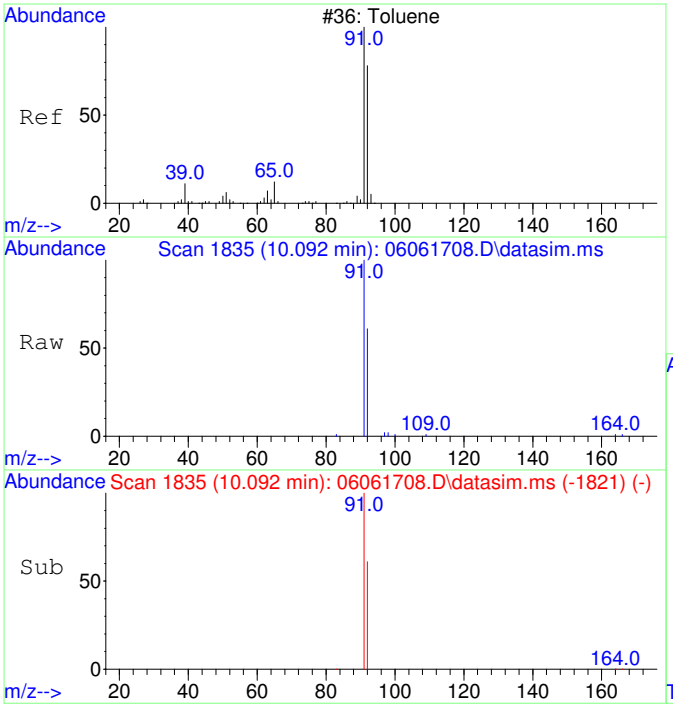


#12
Toluene-d8
Concen: 49.91 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 98 Resp: 6844

Ion	Ratio	Lower	Upper
98	100		
100	62.9	34.2	94.2

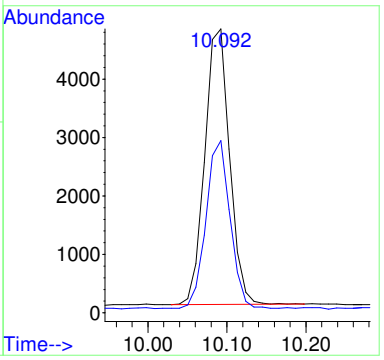


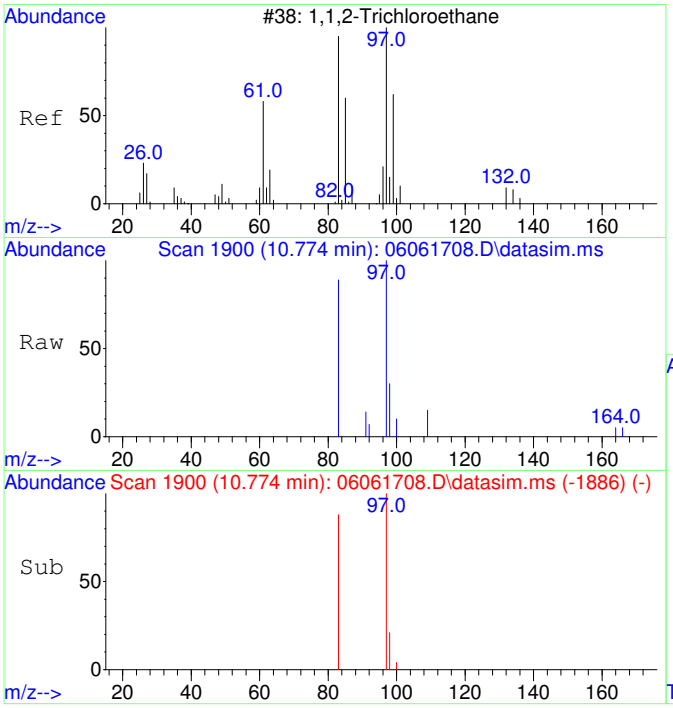


#13
Toluene
Concen: 56.63 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 10284

Ion	Ratio	Lower	Upper
91	100		
92	58.2	28.4	88.4

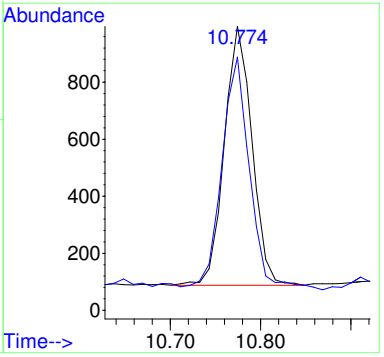


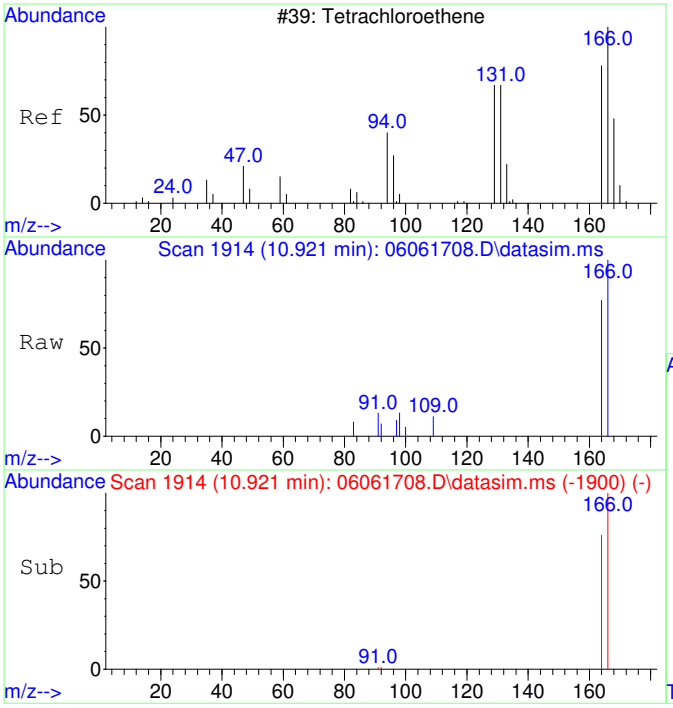


#14
1,1,2-Trichloroethane
Concen: 49.88 ug/L
RT: 10.774 min Scan# 1900
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 97 Resp: 1937

Ion	Ratio	Lower	Upper
97	100		
83	82.3	54.5	114.5

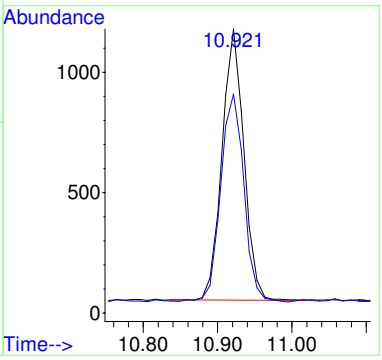


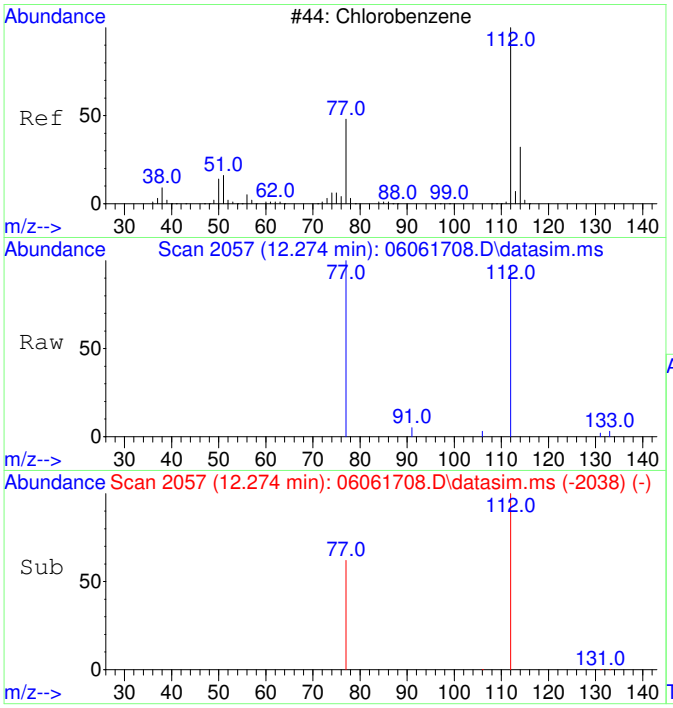


#15
Tetrachloroethene
Concen: 49.31 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:166 Resp: 2295

Ion	Ratio	Lower	Upper
166	100		
164	79.7	48.2	108.2

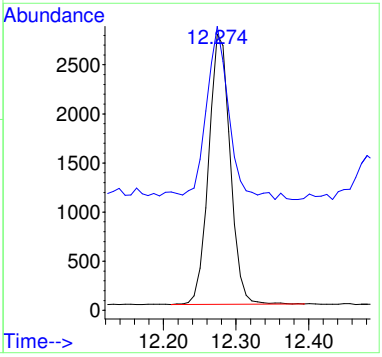


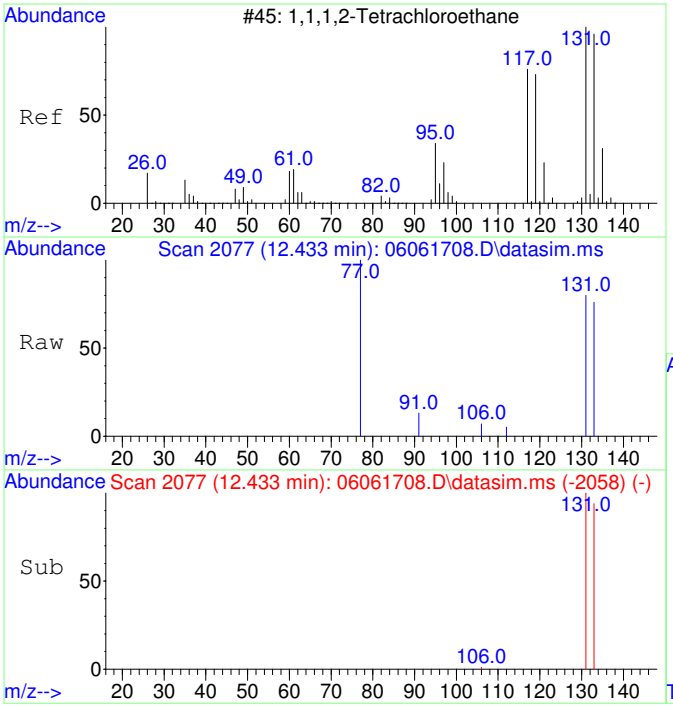


#16
Chlorobenzene
Concen: 49.15 ug/L
RT: 12.274 min Scan# 2057
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:112 Resp: 5669

Ion	Ratio	Lower	Upper
112	100		
77	63.8	28.9	88.9

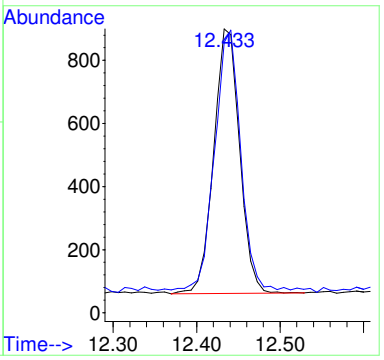


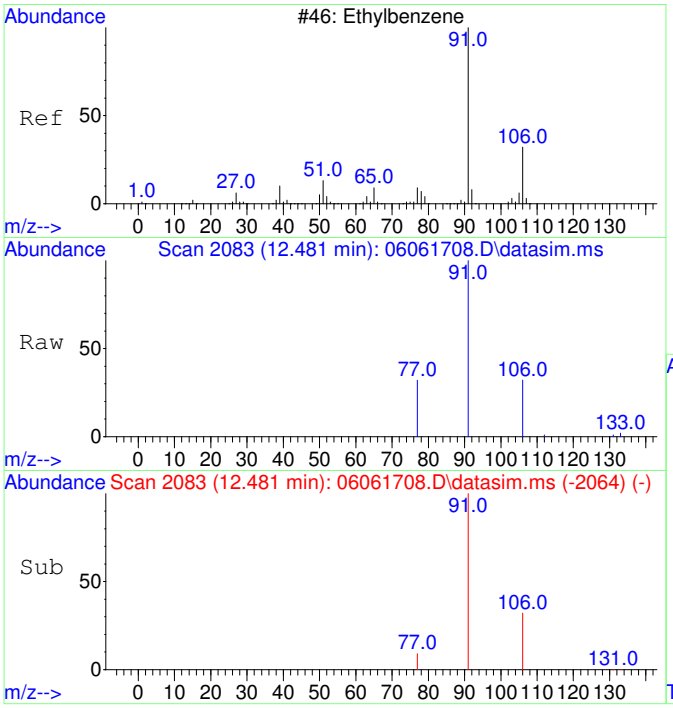


#17
1,1,1,2-Tetrachloroethane
Concen: 47.81 ug/L
RT: 12.433 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:131 Resp: 1810

Ion	Ratio	Lower	Upper
131	100		
133	98.2	65.2	125.2

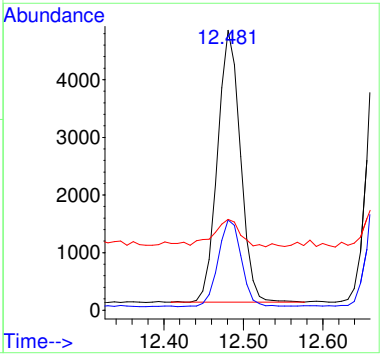


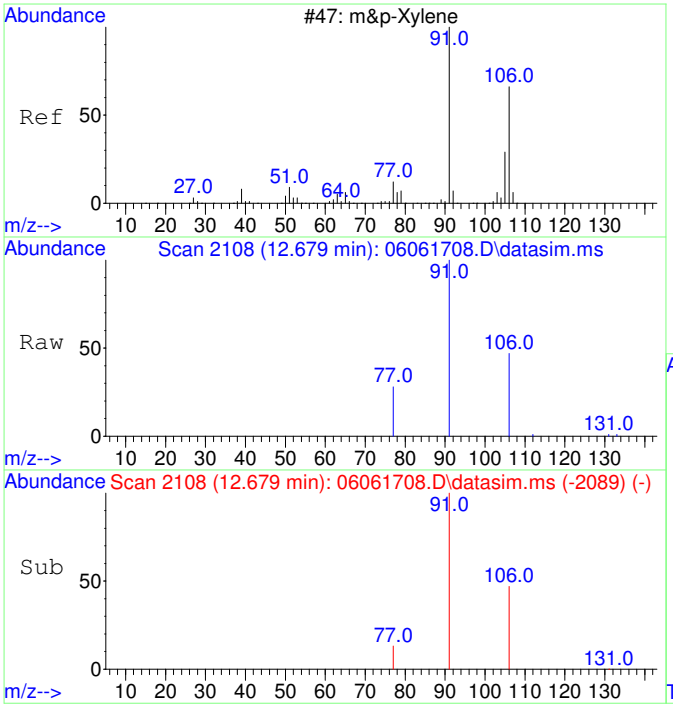


#18
Ethylbenzene
Concen: 48.33 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 9446

Ion	Ratio	Lower	Upper
91	100		
106	31.8	1.2	61.2
77	10.7	0.0	38.6

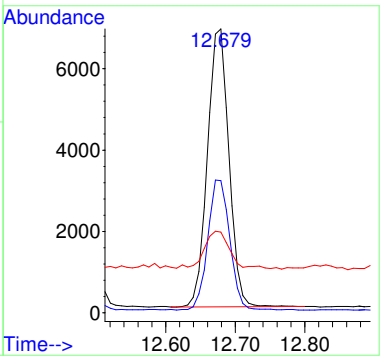


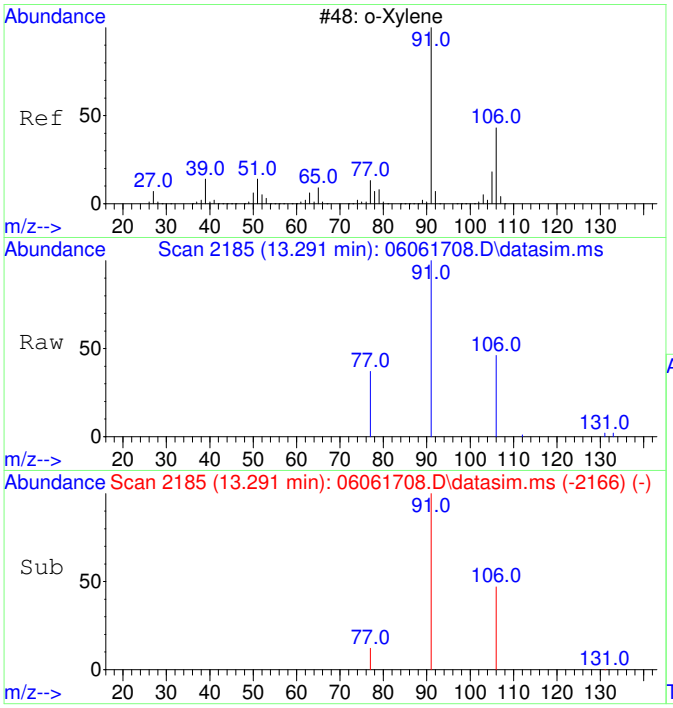


#19
m&p-Xylene
Concen: 95.67 ug/L
RT: 12.679 min Scan# 2108
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 14667

Ion	Ratio	Lower	Upper
91	100		
106	47.4	18.4	78.4
77	13.5	0.0	43.0

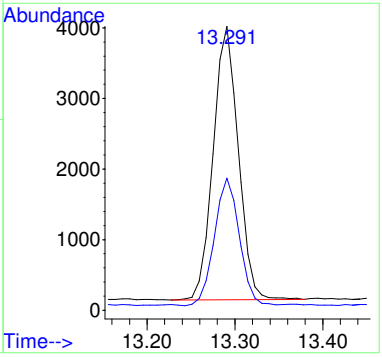


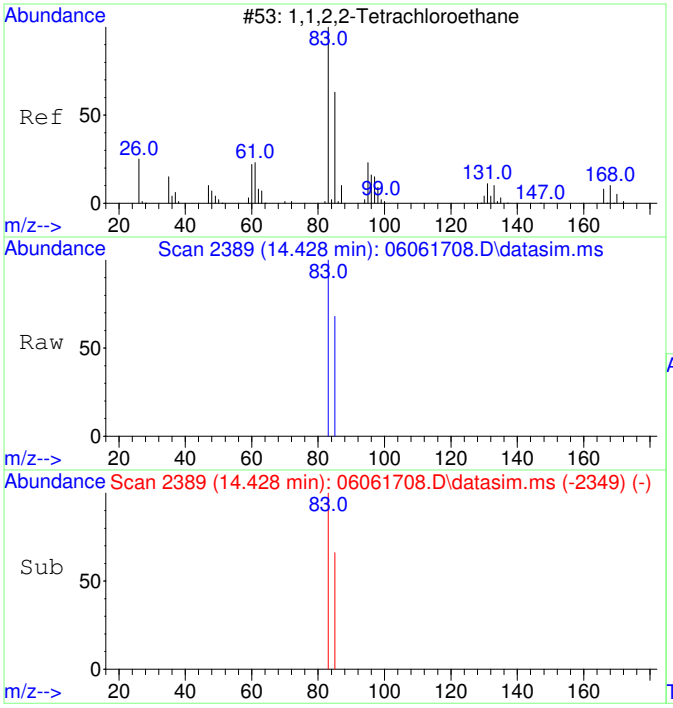


#20
o-Xylene
Concen: 48.46 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 7684

Ion	Ratio	Lower	Upper
91	100		
106	46.8	16.0	76.0

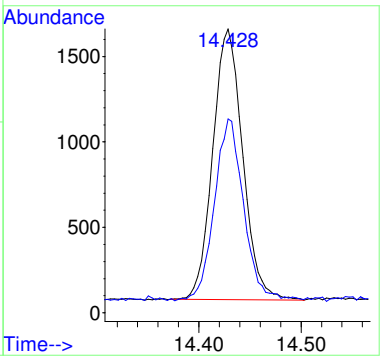


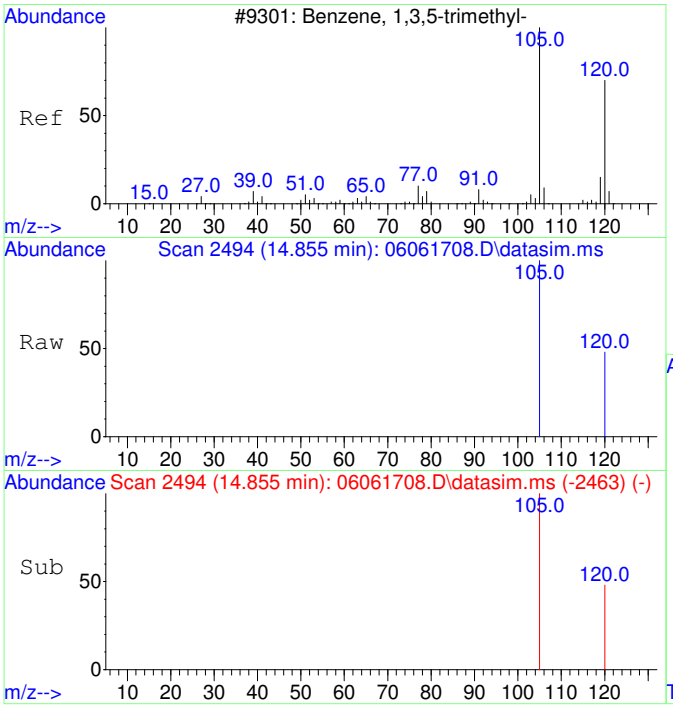


#21
1,1,2,2-Tetrachloroethane
Concen: 47.69 ug/L
RT: 14.428 min Scan# 2389
Delta R.T. -0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 83 Resp: 3216

Ion	Ratio	Lower	Upper
83	100		
85	64.2	34.2	94.2

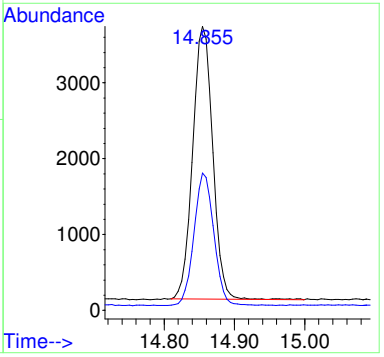


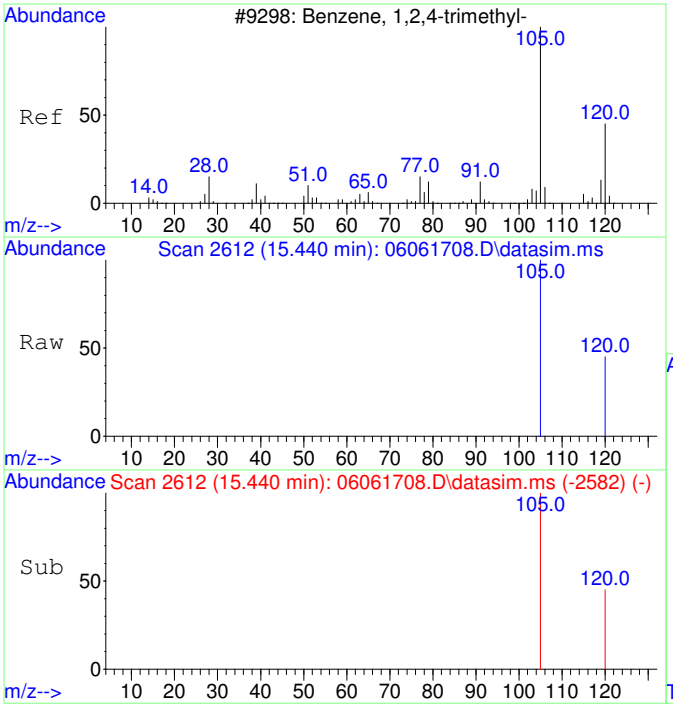


#22
1,3,5-Trimethylbenzene
Concen: 45.42 ug/L
RT: 14.855 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:105 Resp: 7110

Ion	Ratio	Lower	Upper
105	100		
120	47.5	18.0	78.0

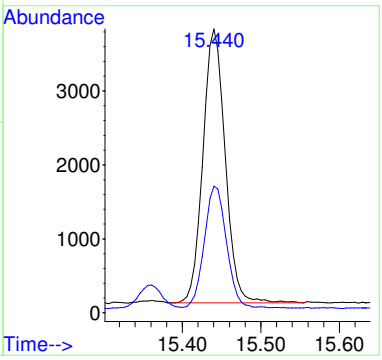


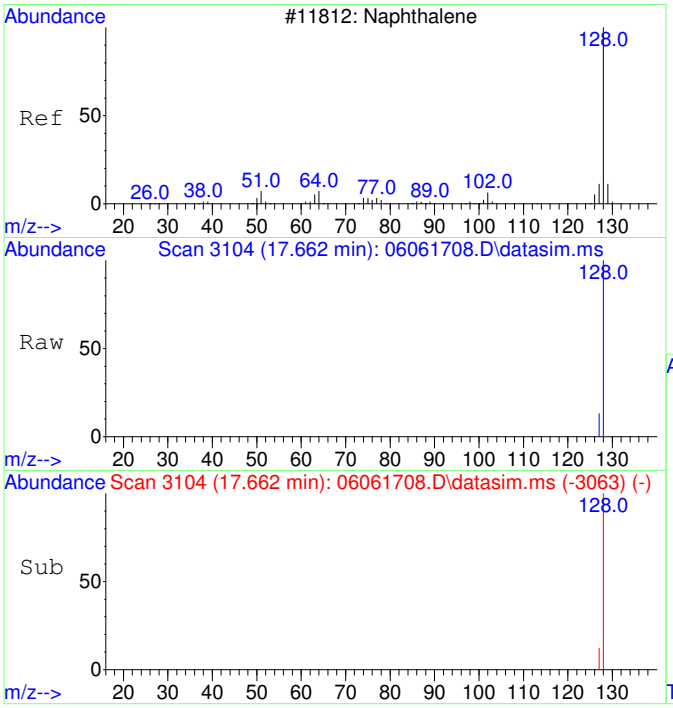


#23
1,2,4-Trimethylbenzene
Concen: 45.38 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:105 Resp: 7283

Ion	Ratio	Lower	Upper
105	100		
120	43.7	14.4	74.4

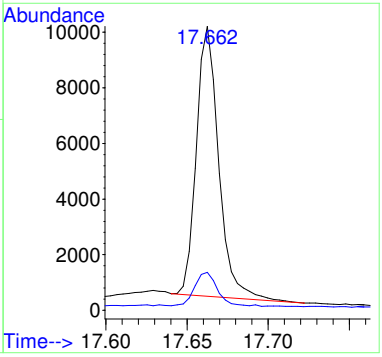


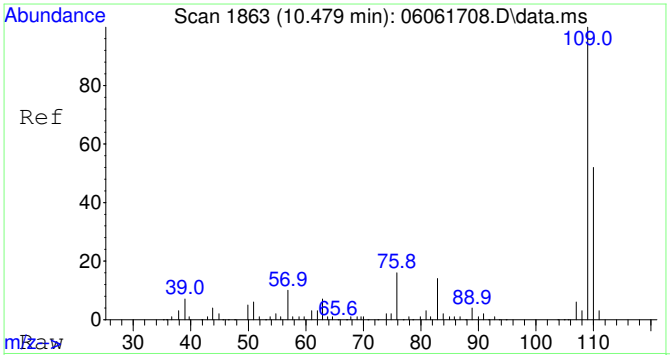


#24
Naphthalene
Concen: 38.95 ug/L
RT: 17.662 min Scan# 3104
Delta R.T. 0.001 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:128 Resp: 9258

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.7

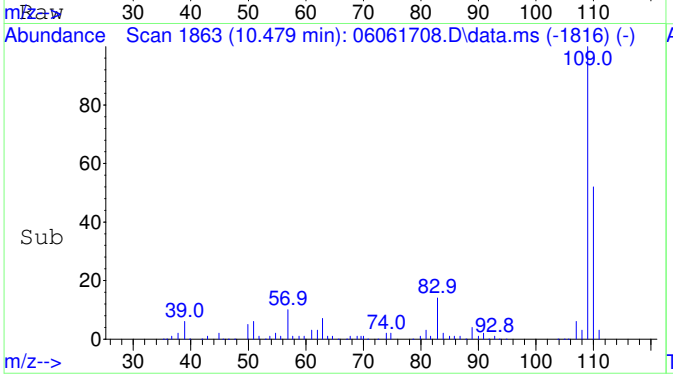


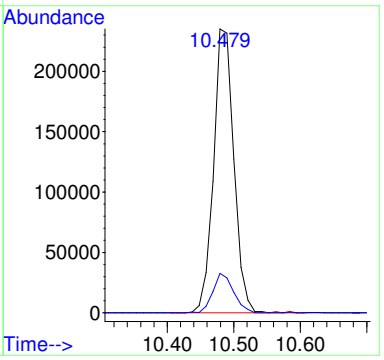


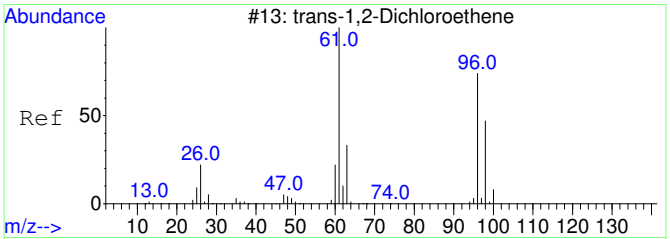
#25
2-Fluorotoluene SCAN
Concen: 4930.90 ug/L
RT: 10.479 min Scan# 1863
Delta R.T. -0.010 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:109 Resp: 500578

Ion	Ratio	Lower	Upper
109	100		
83	14.2	0.0	46.1



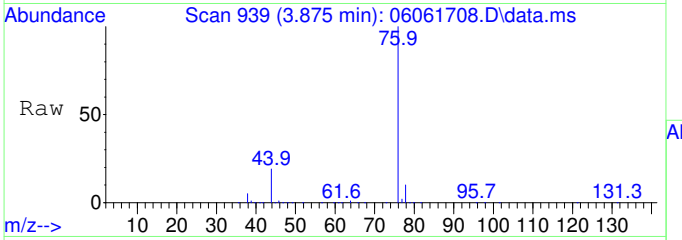


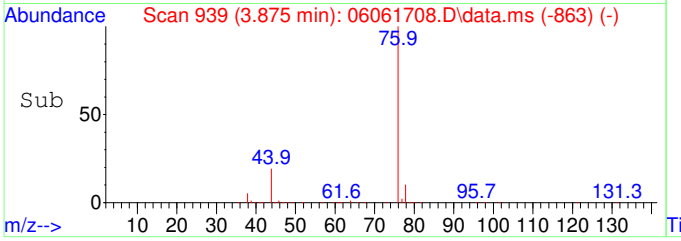


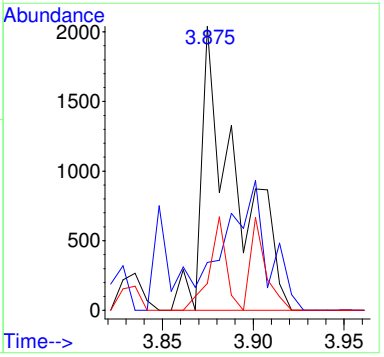
#27
trans-1,2-Dichloroethene SCAN
Concen: 59.80 ug/L
RT: 3.875 min Scan# 939
Delta R.T. 0.007 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

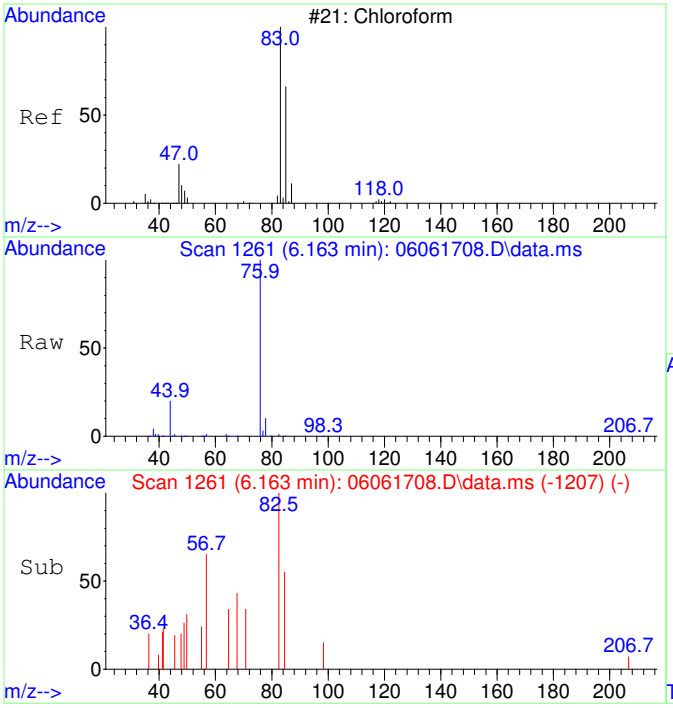
Tgt Ion: 61 Resp: 2726

Ion	Ratio	Lower	Upper
61	100		
96	0.0	26.1	86.1#
98	15.7	4.4	64.4





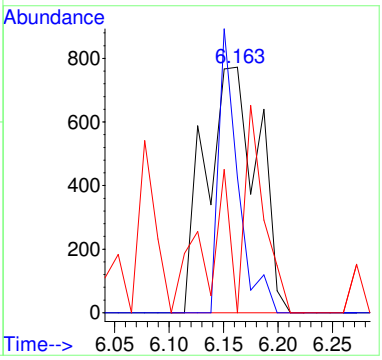


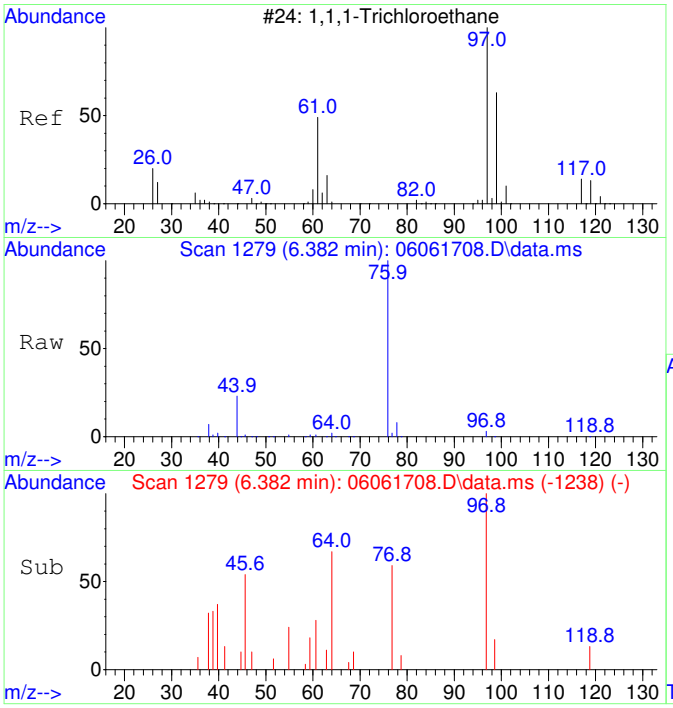


#30
Chloroform SCAN
Concen: 54.62 ug/L
RT: 6.163 min Scan# 1261
Delta R.T. 0.012 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 83 Resp: 2590

Ion	Ratio	Lower	Upper
83	100		
85	42.5	31.2	91.2
47	0.0	3.2	63.2#

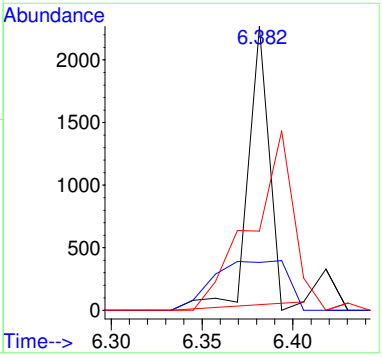


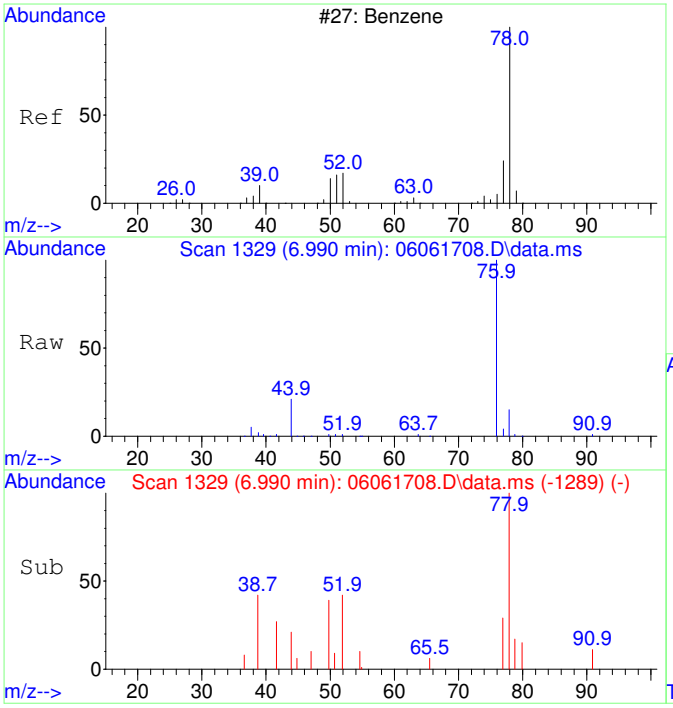


#31
1,1,1-Trichloroethane SCAN
Concen: 44.36 ug/L
RT: 6.382 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 97 Resp: 1731

Ion	Ratio	Lower	Upper
97	100		
99	65.0	38.7	98.7
61	137.1	27.8	87.8#

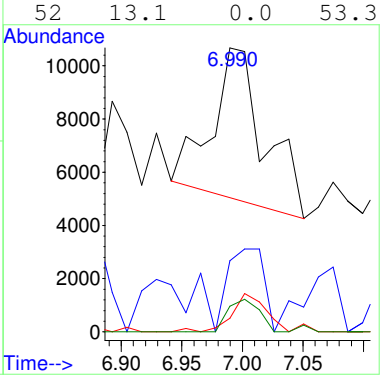


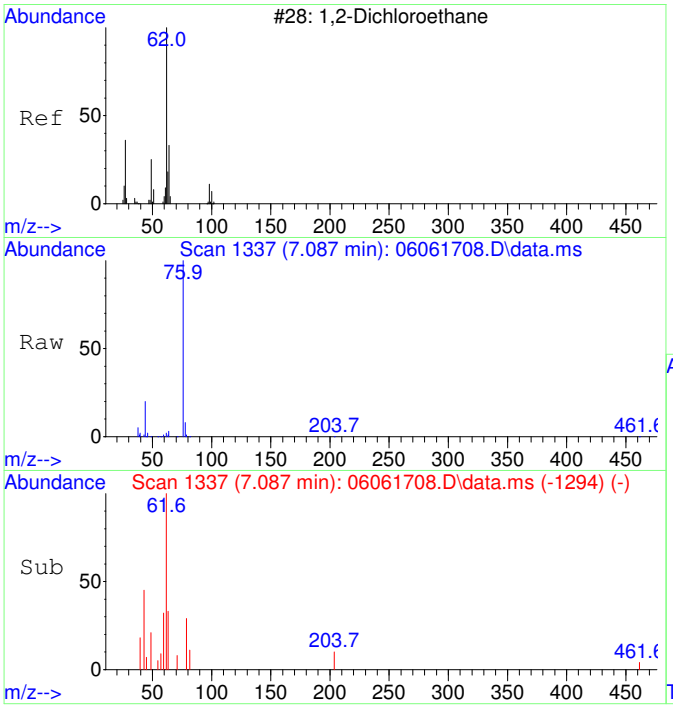


#33
Benzene SCAN
Concen: 156.64 ug/L
RT: 6.990 min Scan# 1329
Delta R.T. -0.012 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 78 Resp: 16834

Ion	Ratio	Lower	Upper
78	100		
77	35.6	0.0	55.2
51	17.9	0.0	52.4
52	13.1	0.0	53.3

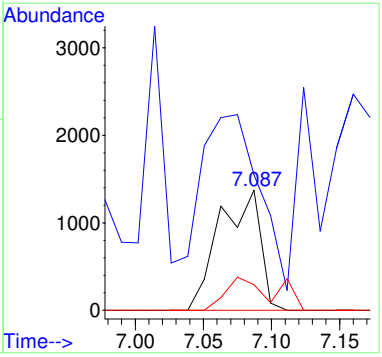


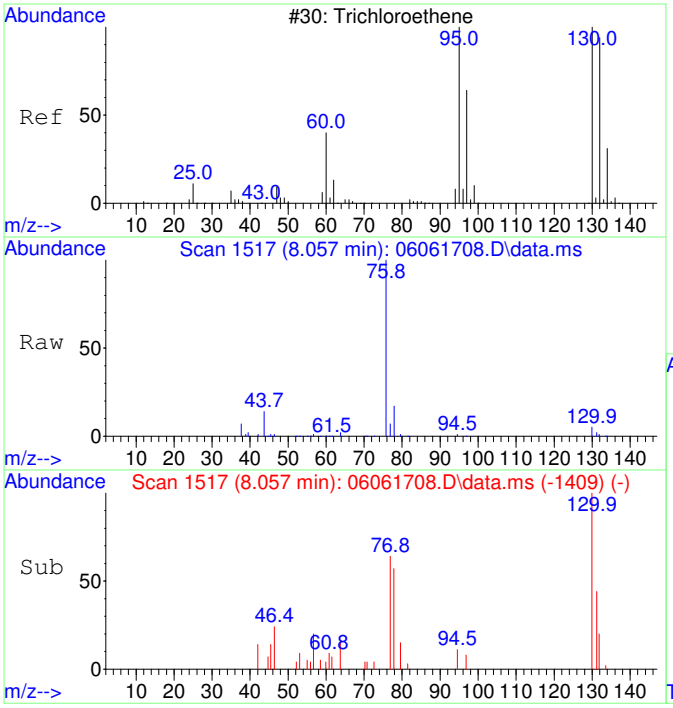


#34
1,2-Dichloroethane SCAN
Concen: 62.17 ug/L
RT: 7.087 min Scan# 1337
Delta R.T. 0.024 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 62 Resp: 2883

Ion	Ratio	Lower	Upper
62	100		
64	168.4	7.4	67.4#
49	32.0	0.0	54.8

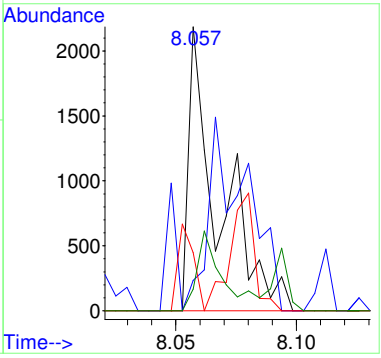


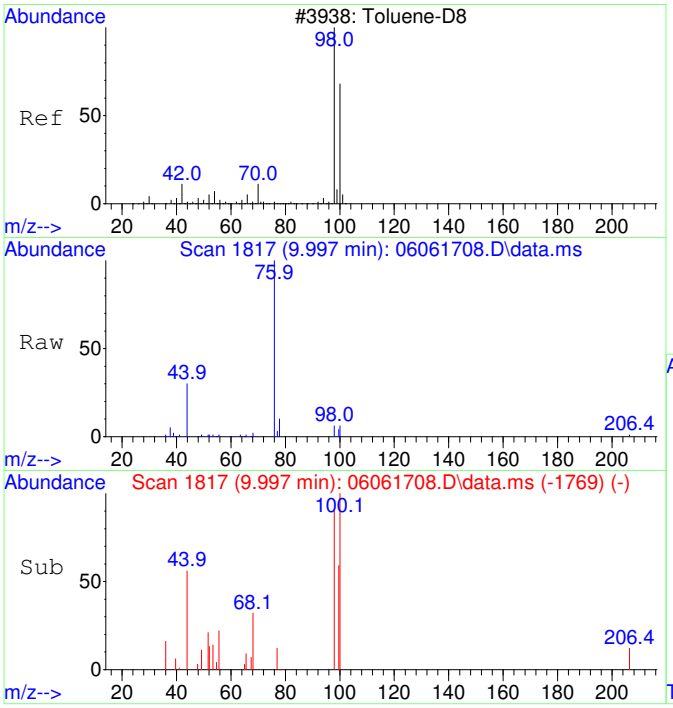


#35
Trichloroethene SCAN
Concen: 75.22 ug/L
RT: 8.057 min Scan# 1517
Delta R.T. -0.004 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:130 Resp: 1872

Ion	Ratio	Lower	Upper
130	100		
95	88.2	76.1	136.1
132	16.4	65.6	125.6#
97	19.6	41.8	101.8#

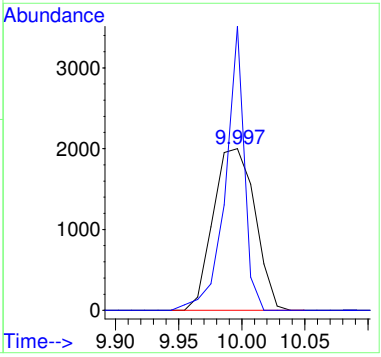


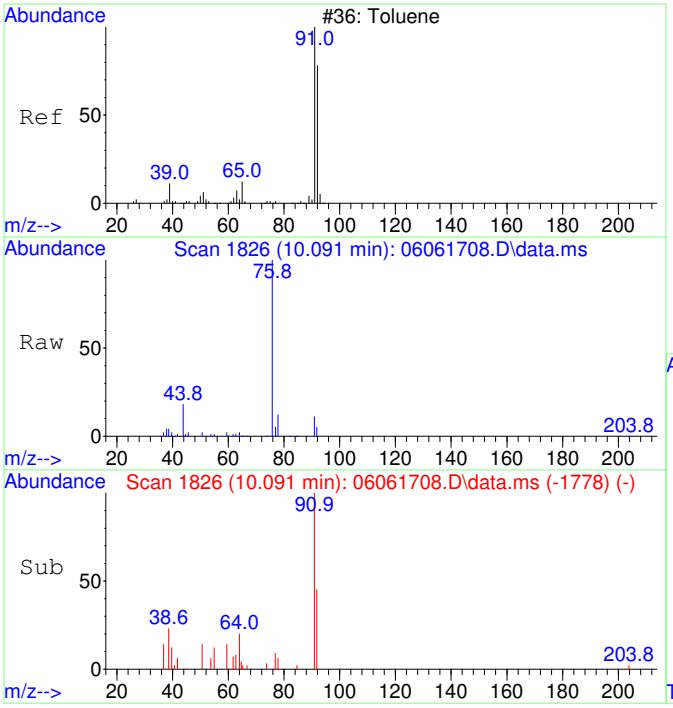


#36
Toluene-d8 SCAN
Concen: 55.15 ug/L
RT: 9.997 min Scan# 1817
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 98 Resp: 4621

Ion	Ratio	Lower	Upper
98	100		
100	78.5	36.2	96.2

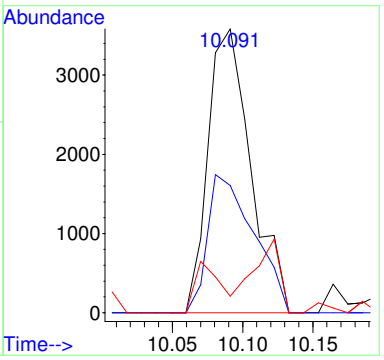


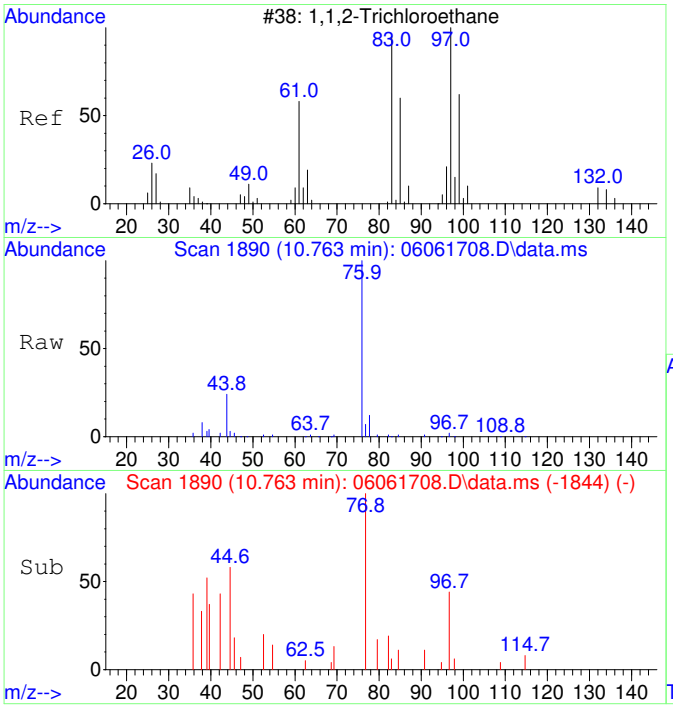


#37
Toluene SCAN
Concen: 68.65 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 7672

Ion	Ratio	Lower	Upper
91	100		
92	52.2	29.2	89.2
65	0.0	0.0	44.3

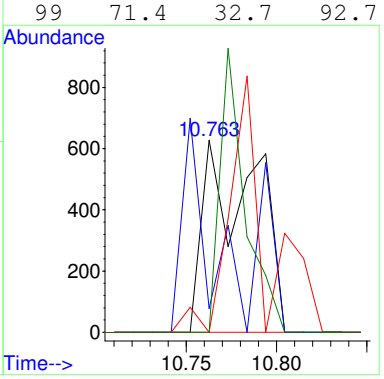


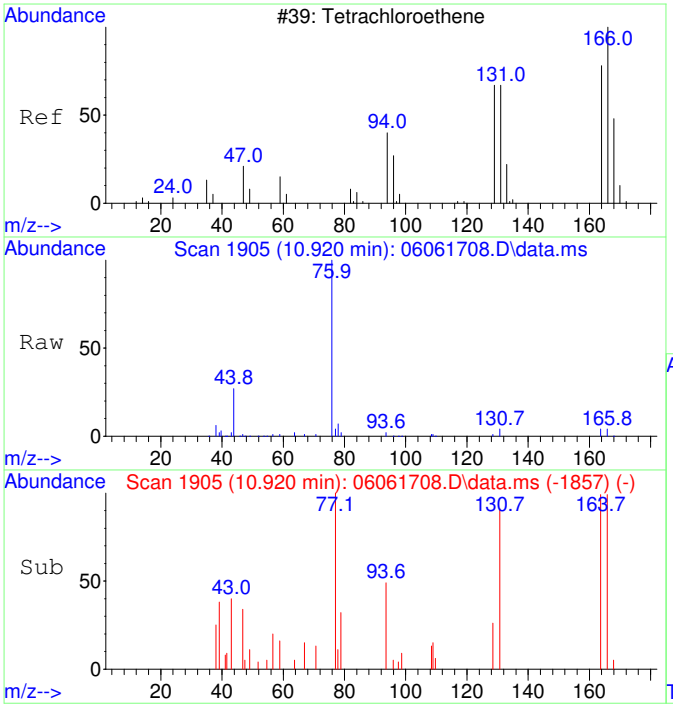


#38
1,1,2-Trichloroethane SCAN
Concen: 49.98 ug/L
RT: 10.763 min Scan# 1890
Delta R.T. -0.021 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 97 Resp: 1258

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.8	117.8#
61	0.0	48.6	108.6#
99	71.4	32.7	92.7

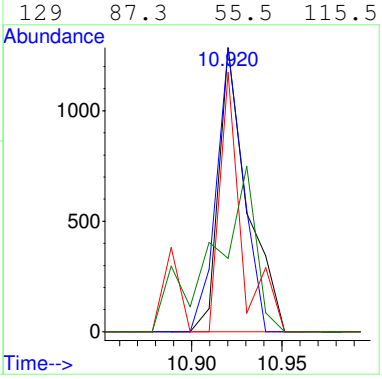


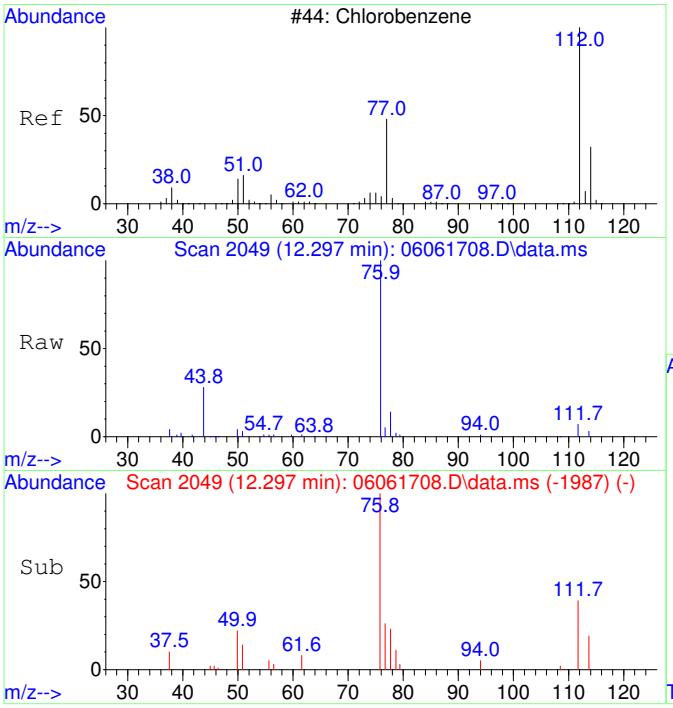


#39
Tetrachloroethene SCAN
Concen: 62.38 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:166 Resp: 1429

Ion	Ratio	Lower	Upper
166	100		
164	93.3	45.7	105.7
131	85.0	44.8	104.8
129	87.3	55.5	115.5

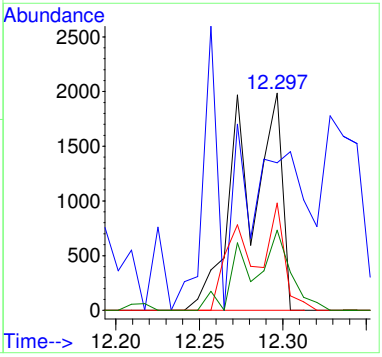


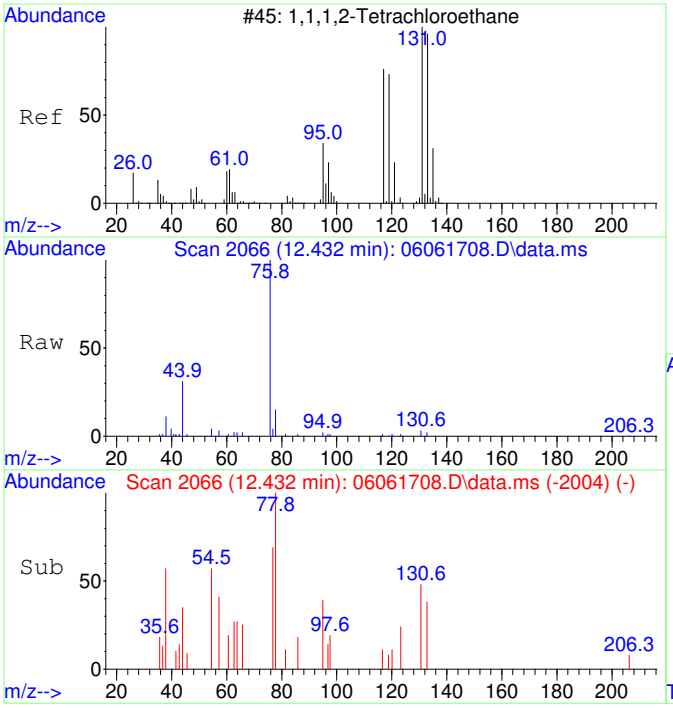


#40
Chlorobenzene SCAN
Concen: 47.62 ug/L
RT: 12.297 min Scan# 2049
Delta R.T. 0.016 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:112 Resp: 3269

Ion	Ratio	Lower	Upper
112	100		
77	35.0	35.1	95.1#
114	47.5	2.6	62.6
51	39.2	3.7	63.7

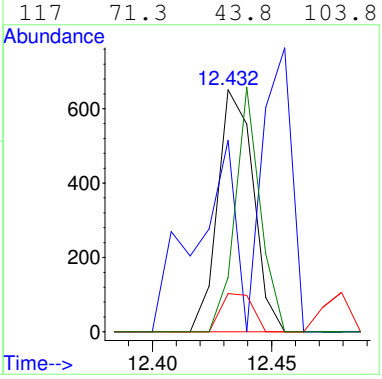


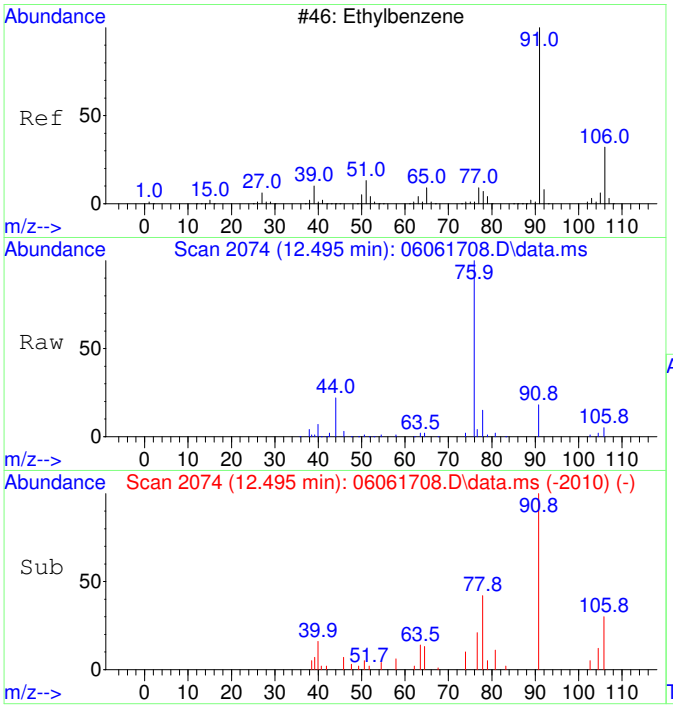


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 31.78 ug/L
RT: 12.432 min Scan# 2066
Delta R.T. -0.008 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:131 Resp: 679

Ion	Ratio	Lower	Upper
131	100		
133	88.8	63.5	123.5
119	14.1	38.0	98.0#
117	71.3	43.8	103.8

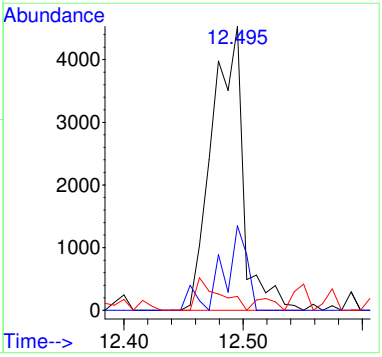


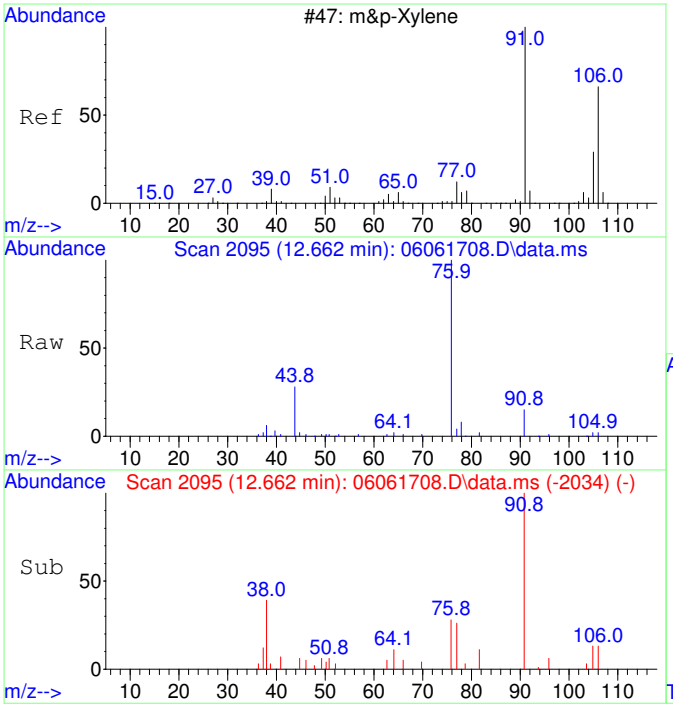


#42
Ethylbenzene SCAN
Concen: 66.50 ug/L
RT: 12.495 min Scan# 2074
Delta R.T. 0.008 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 8321

Ion	Ratio	Lower	Upper
91	100		
106	22.7	0.0	59.8
51	0.0	0.0	45.5

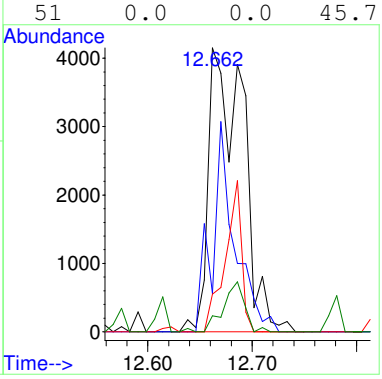


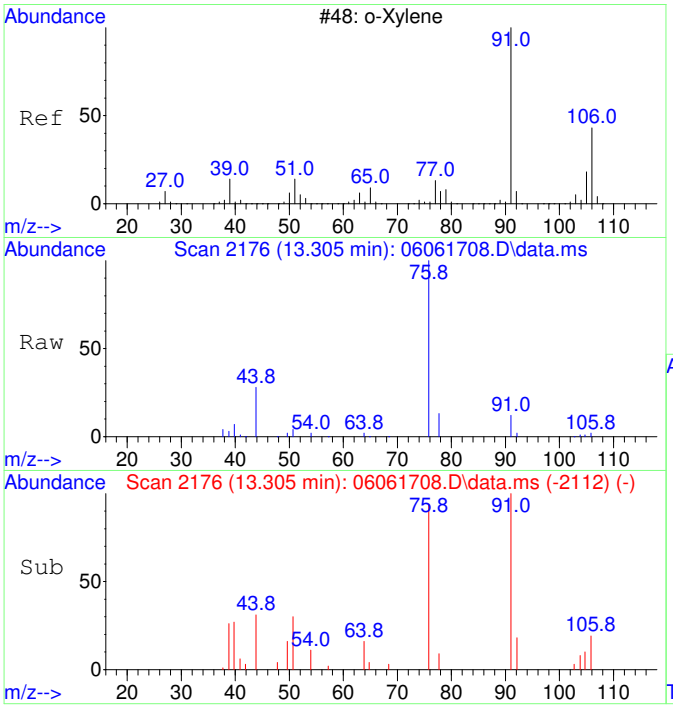


#43
m&p-Xylene SCAN
Concen: 49.59 ug/L
RT: 12.662 min Scan# 2095
Delta R.T. -0.016 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 9688

Ion	Ratio	Lower	Upper
91	100		
106	47.4	18.5	78.5
105	0.0	0.0	51.3
51	0.0	0.0	45.7

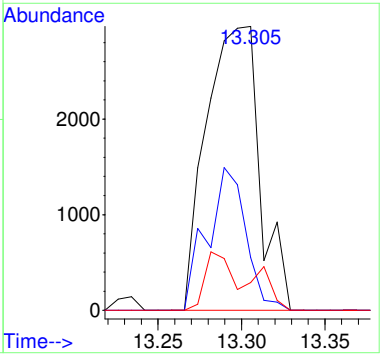


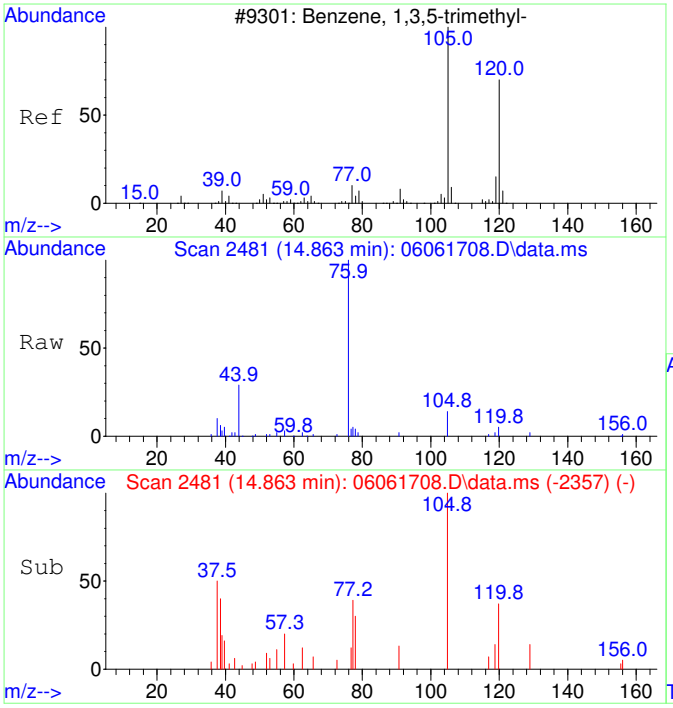


#44
o-Xylene SCAN
Concen: 65.82 ug/L
RT: 13.305 min Scan# 2176
Delta R.T. 0.008 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 6622

Ion	Ratio	Lower	Upper
91	100		
106	0.0	15.5	75.5#
105	0.0	0.0	54.1

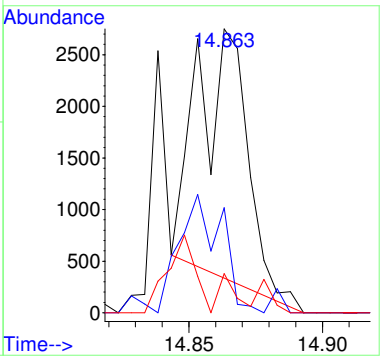


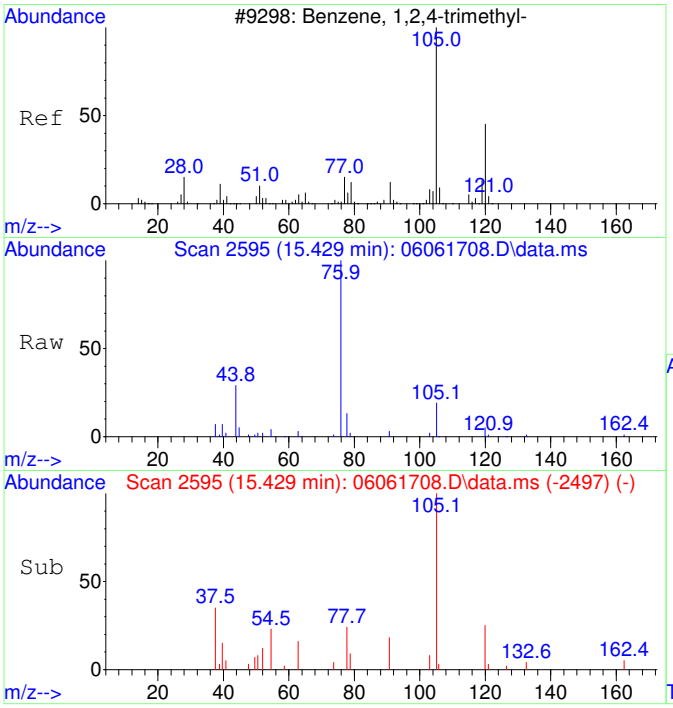


#46
1,3,5-Trimethylbenzene SCAN
Concen: 31.91 ug/L
RT: 14.863 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:105 Resp: 3045

Ion	Ratio	Lower	Upper
105	100		
120	43.8	17.3	77.3
119	18.0	0.0	42.7

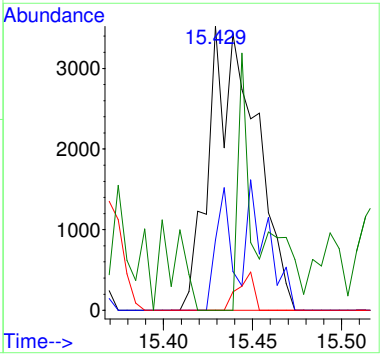


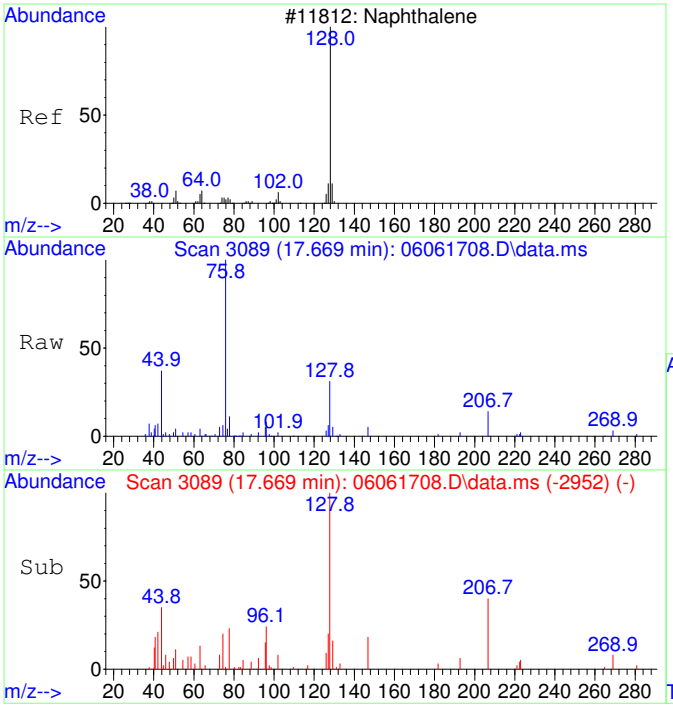


#47
1,2,4-Trimethylbenzene SCAN
Concen: 64.80 ug/L
RT: 15.429 min Scan# 2595
Delta R.T. -0.014 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:105 Resp: 6444

Ion	Ratio	Lower	Upper
105	100		
120	11.9	12.9	72.9#
119	0.0	0.0	40.5
77	0.0	0.0	43.3

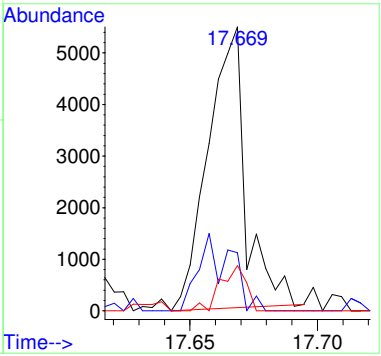




#48
Naphthalene SCAN
Concen: 40.76 ug/L
RT: 17.669 min Scan# 3089
Delta R.T. 0.009 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:128 Resp: 5590

Ion	Ratio	Lower	Upper
128	100		
127	23.7	0.0	43.9
129	11.0	0.0	41.0



Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061708.D
Acq On : 6 Jun 2017 14:03
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL6
Misc : 1717062 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

M.I. Performed By:
RH at 3:27 pm, Jun 06, 2017

M.I. Approved By:
ZR at 12:51 pm, Jun 08, 2017

Quant Time: Jun 06 15:09:12 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration

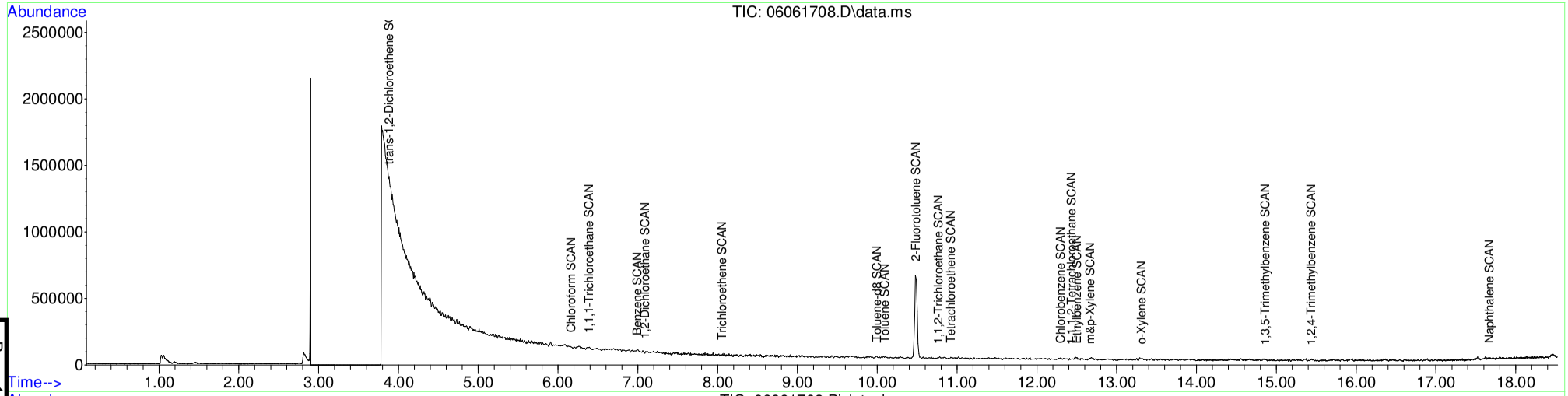
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.481	109	837314	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	9.987	98	6844	49.91	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.00%#		
Target Compounds						Qvalue
2] 1,1-Dichloroethene	2.711	61	3088m	45.41	ug/L	
3] trans-1,2-Dichloroethene	3.883	61	3580	50.02	ug/L	66
4] 1,1-Dichloroethane	4.559	63	3668	47.54	ug/L	99
5] cis-1,2-Dichloroethene	5.575	61	3528	47.84	ug/L	97
6] Chloroform	6.152	83	3759	52.68	ug/L	96
7] 1,1,1-Trichloroethane	6.383	97	3164	48.28	ug/L	100
8] Carbon tetrachloride	6.638	117	2714	48.01	ug/L	100
9] Benzene	6.991	78	12265	73.81	ug/L	98
10] 1,2-Dichloroethane	7.064	62	2966	48.18	ug/L	86
11] Trichloroethene	8.068	130	2095	49.02	ug/L	99
13] Toluene	10.092	91	10284	56.63	ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	1937	49.88	ug/L	98
15] Tetrachloroethene	10.921	166	2295	49.31	ug/L	98
16] Chlorobenzene	12.274	112	5669	49.15	ug/L	94
17] 1,1,1,2-Tetrachloroethane	12.433	131	1810	47.81	ug/L	97
18] Ethylbenzene	12.481	91	9446	48.33	ug/L	98
19] m&p-Xylene	12.679	91	14667	95.67	ug/L	99
20] o-Xylene	13.291	91	7684	48.46	ug/L	99
21] 1,1,2,2-Tetrachloroethane	14.428	83	3216	47.69	ug/L	100
22] 1,3,5-Trimethylbenzene	14.855	105	7110	45.42	ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	7283	45.38	ug/L	99
24] Naphthalene	17.662	128	9258	38.95	ug/L	99
25) 2-Fluorotoluene SCAN	10.479	109	500578	4930.90	ug/L	95
27) trans-1,2-Dichloroethe...	3.875	61	2726	59.80	ug/L #	40
30) Chloroform SCAN	6.163	83	2590	54.62	ug/L #	64
31) 1,1,1-Trichloroethane ...	6.382	97	1731	44.36	ug/L #	49
33) Benzene SCAN	6.990	78	16834	156.64	ug/L	83
34) 1,2-Dichloroethane SCAN	7.087	62	2883	62.17	ug/L #	1
35) Trichloroethene SCAN	8.057	130	1872	75.22	ug/L #	48
36) Toluene-d8 SCAN	9.997	98	4621	55.15	ug/L	85
37) Toluene SCAN	10.091	91	7672	68.65	ug/L #	86
38) 1,1,2-Trichloroethane ...	10.763	97	1258	49.98	ug/L #	30
39) Tetrachloroethene SCAN	10.920	166	1429	62.38	ug/L	89
40) Chlorobenzene SCAN	12.297	112	3269	47.62	ug/L #	72
41) 1,1,1,2-Tetrachloroeth...	12.432	131	679	31.78	ug/L #	78
42) Ethylbenzene SCAN	12.495	91	8321	66.50	ug/L #	79
43) m&p-Xylene SCAN	12.662	91	9688	49.59	ug/L #	81
44) o-Xylene SCAN	13.305	91	6622	65.82	ug/L #	38
46) 1,3,5-Trimethylbenzene...	14.863	105	3045	31.91	ug/L	93
47) 1,2,4-Trimethylbenzene...	15.429	105	6444	64.80	ug/L #	58
48) Naphthalene SCAN	17.669	128	5590	40.76	ug/L	86

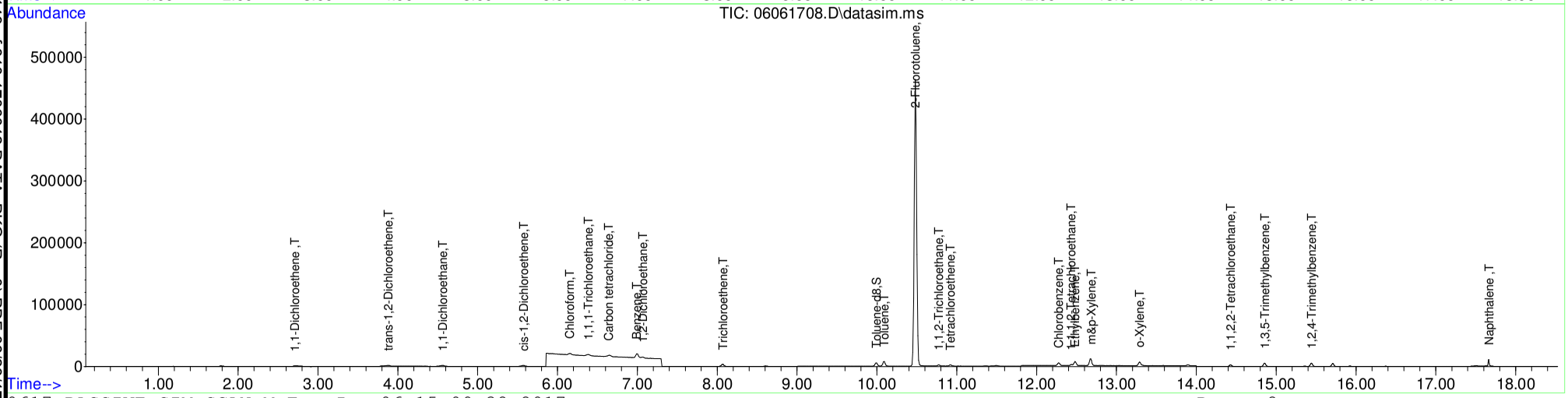
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061708.D
Acq On : 6 Jun 2017 14:03
InstName : AG5975C
Operator : RH
Sample : S17F020-CAL6
Misc : 1717062 0.05 mg/L
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 15:09:12 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:06:55 2017
Response via : Initial Calibration





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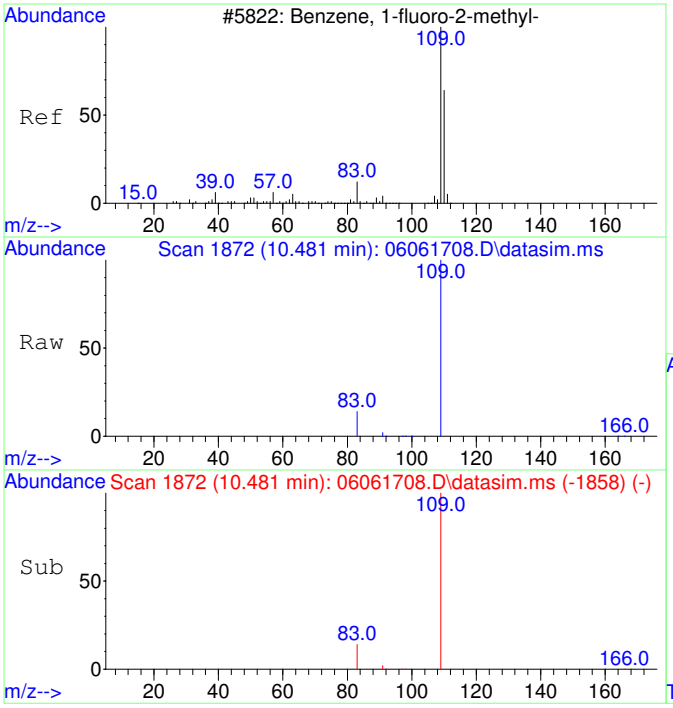
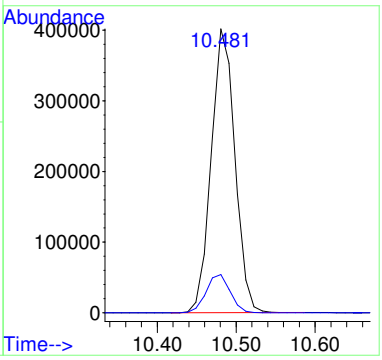
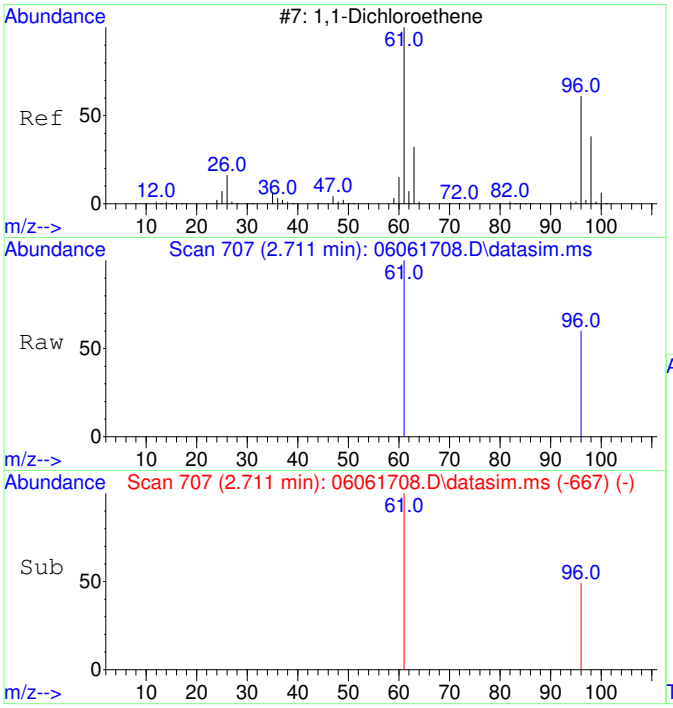


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.481 min Scan# 1872
Delta R.T. 0.001 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:109 Resp: 837314

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	44.4

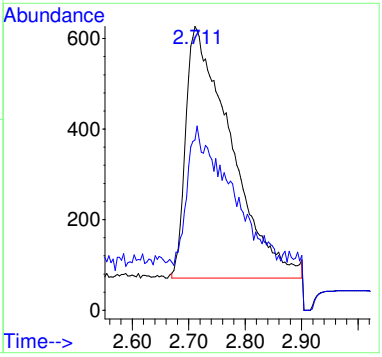


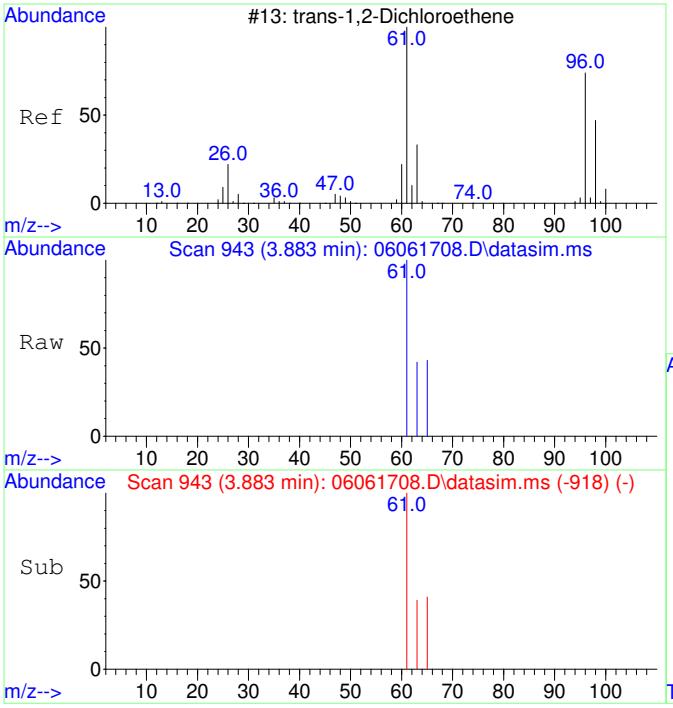


#2
1,1-Dichloroethene
Concen: 45.41 ug/L m
RT: 2.711 min Scan# 707
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 61 Resp: 3088

Ion	Ratio	Lower	Upper
61	100		
96	60.6	21.8	81.8

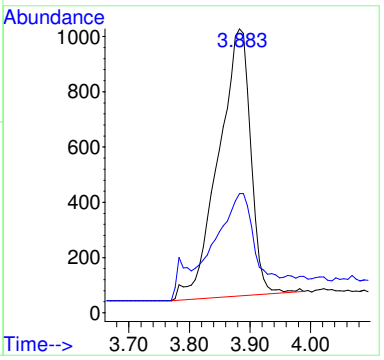


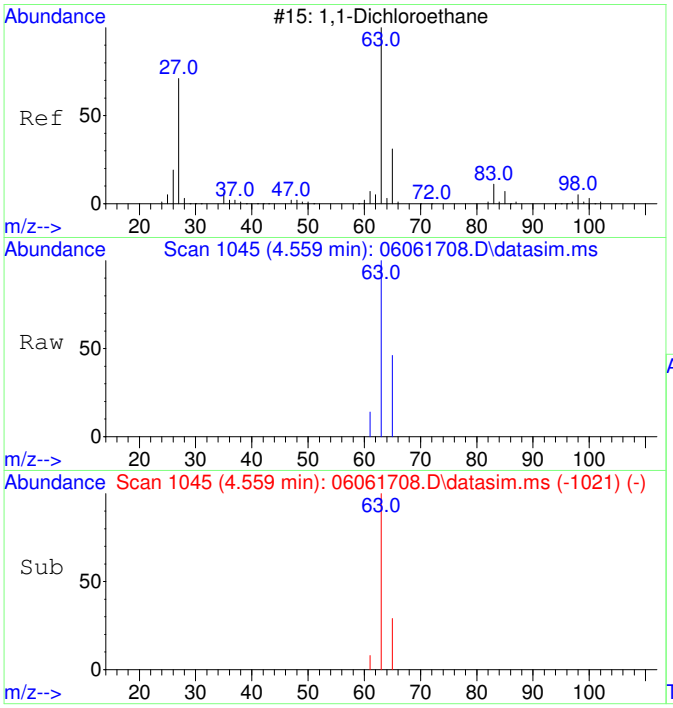


#3
trans-1,2-Dichloroethene
Concen: 50.02 ug/L
RT: 3.883 min Scan# 943
Delta R.T. 0.013 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 61 Resp: 3580

Ion	Ratio	Lower	Upper
61	100		
63	49.6	1.0	61.0

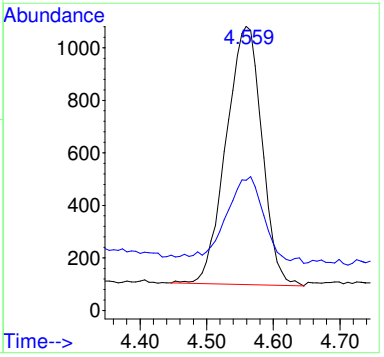


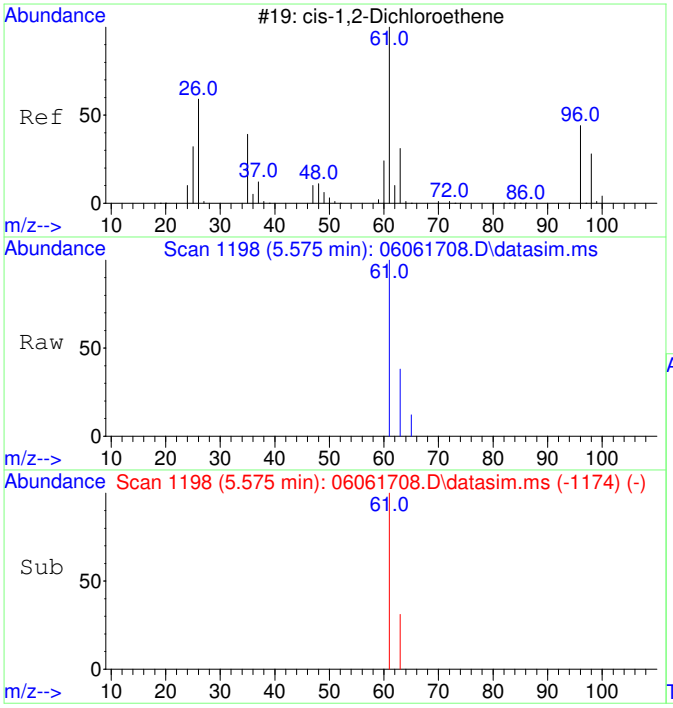


#4
1,1-Dichloroethane
Concen: 47.54 ug/L
RT: 4.559 min Scan# 1045
Delta R.T. 0.007 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 63 Resp: 3668

Ion	Ratio	Lower	Upper
63	100		
65	30.9	0.5	60.5

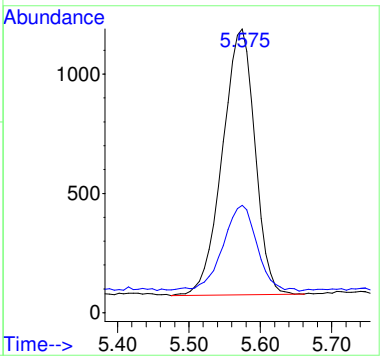


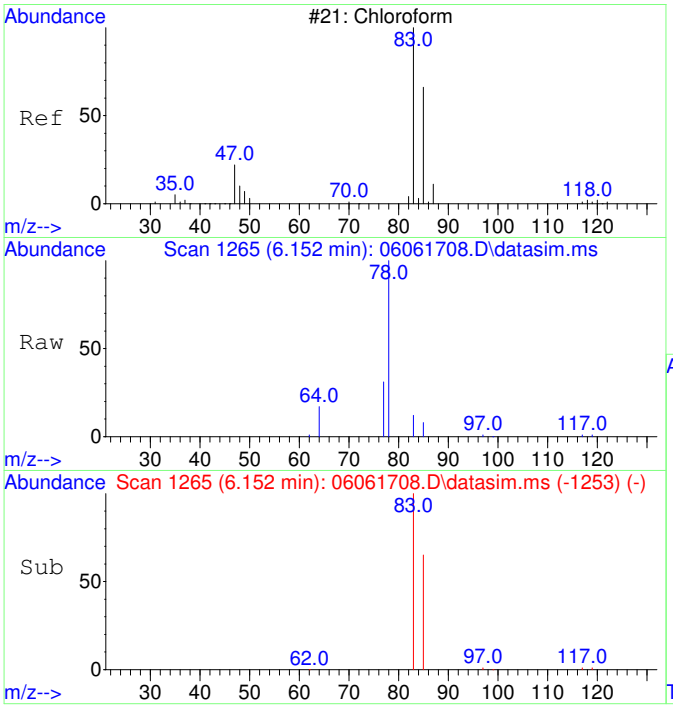


#5
cis-1,2-Dichloroethene
Concen: 47.84 ug/L
RT: 5.575 min Scan# 1198
Delta R.T. 0.007 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 61 Resp: 3528

Ion	Ratio	Lower	Upper
61	100		
63	32.3	0.9	60.9

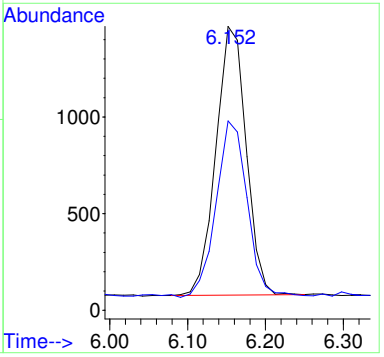


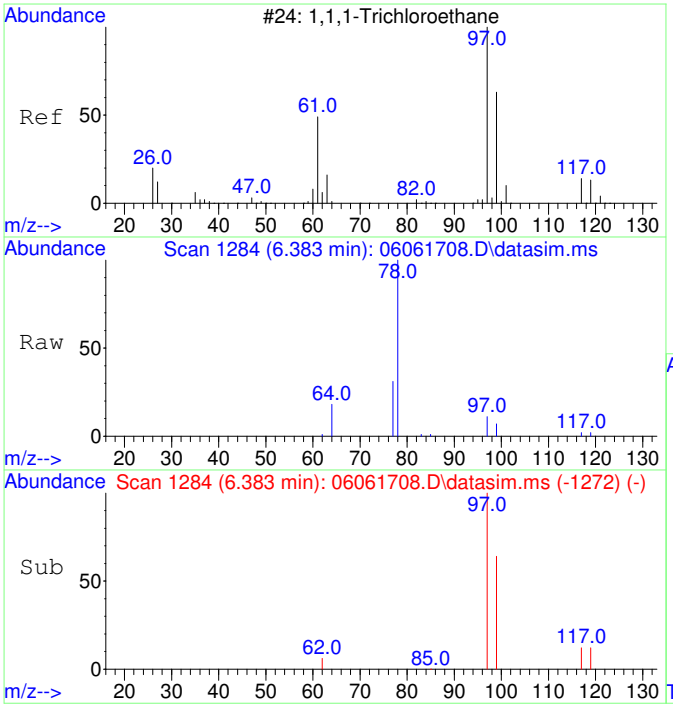


#6
Chloroform
Concen: 52.68 ug/L
RT: 6.152 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 83 Resp: 3759

Ion	Ratio	Lower	Upper
83	100		
85	66.7	33.7	93.7

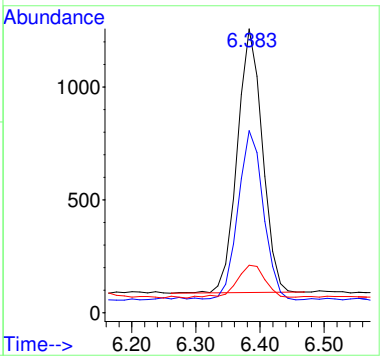


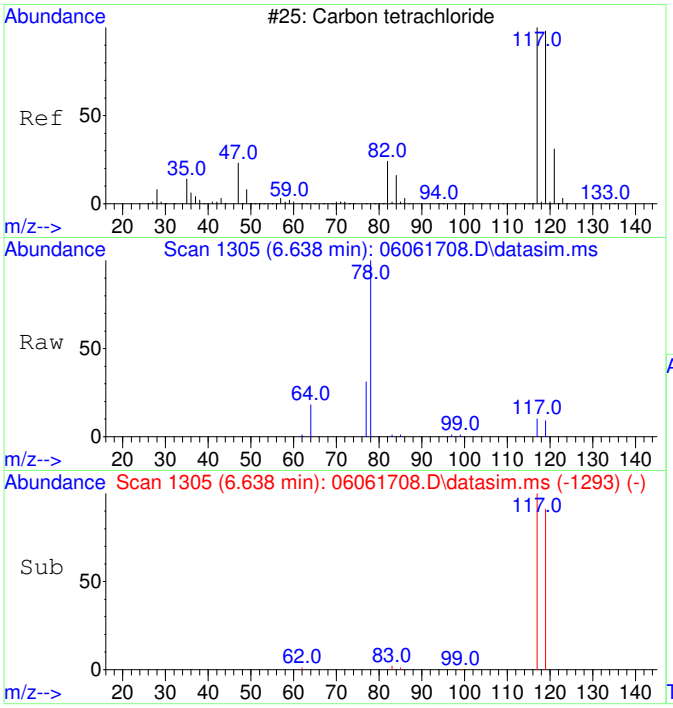


#7
1,1,1-Trichloroethane
Concen: 48.28 ug/L
RT: 6.383 min Scan# 1284
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 97 Resp: 3164

Ion	Ratio	Lower	Upper
97	100		
99	64.0	34.3	94.3
117	12.5	0.0	42.3

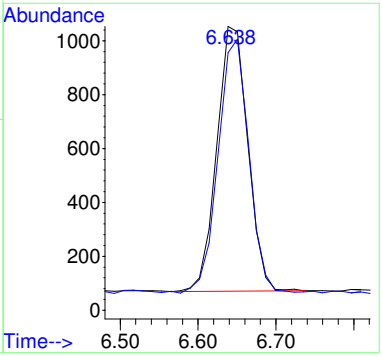


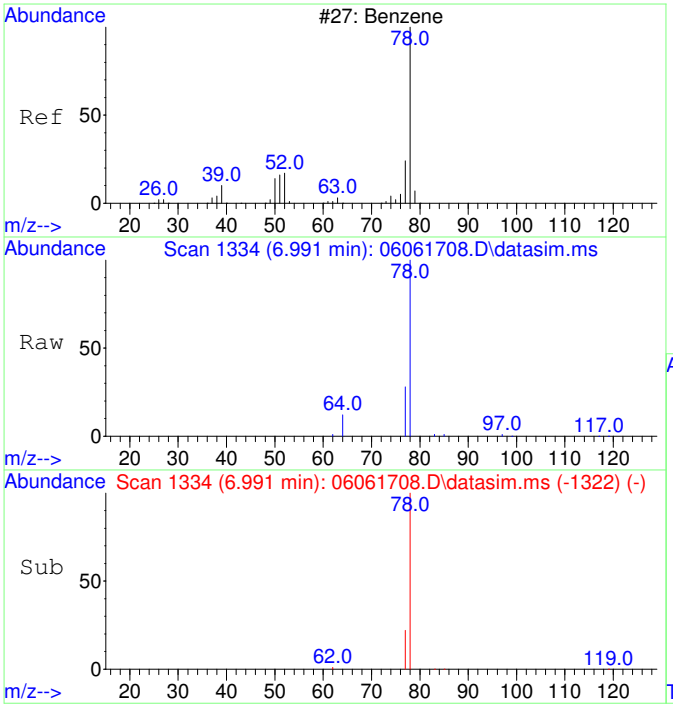


#8
Carbon tetrachloride
Concen: 48.01 ug/L
RT: 6.638 min Scan# 1305
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:117 Resp: 2714

Ion	Ratio	Lower	Upper
117	100		
119	95.0	65.4	125.4

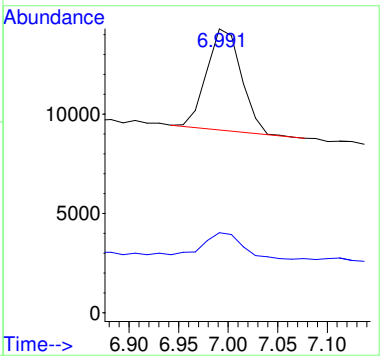


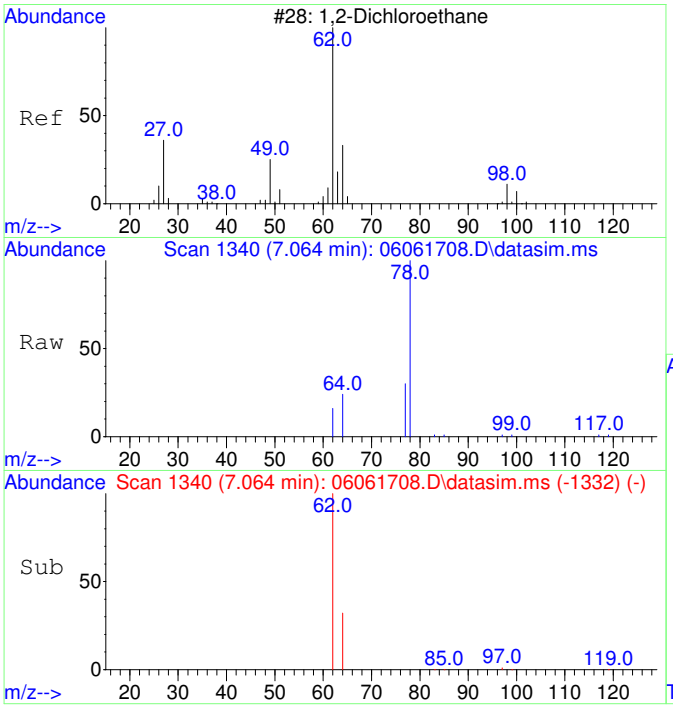


#9
Benzene
Concen: 73.81 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 78 Resp: 12265

Ion	Ratio	Lower	Upper
78	100		
77	24.2	0.0	53.0

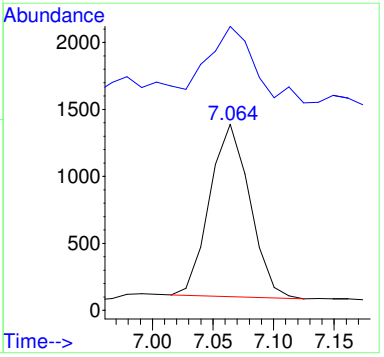


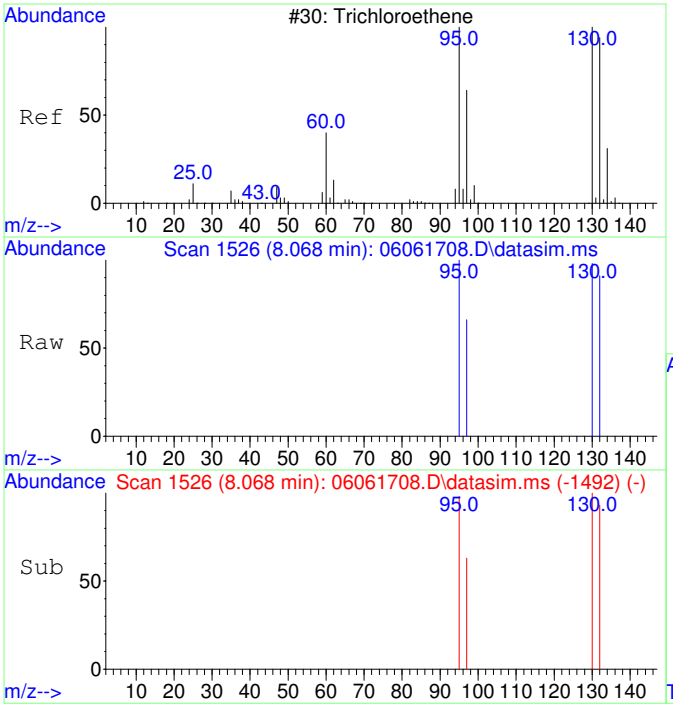


#10
1,2-Dichloroethane
Concen: 48.18 ug/L
RT: 7.064 min Scan# 1340
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 62 Resp: 2966

Ion	Ratio	Lower	Upper
62	100		
64	40.4	2.6	62.6

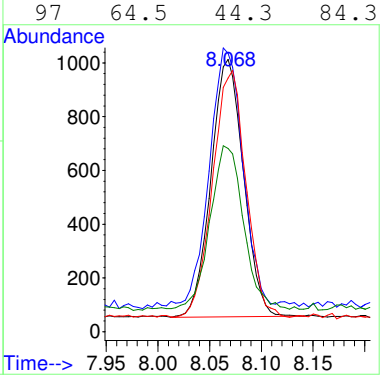


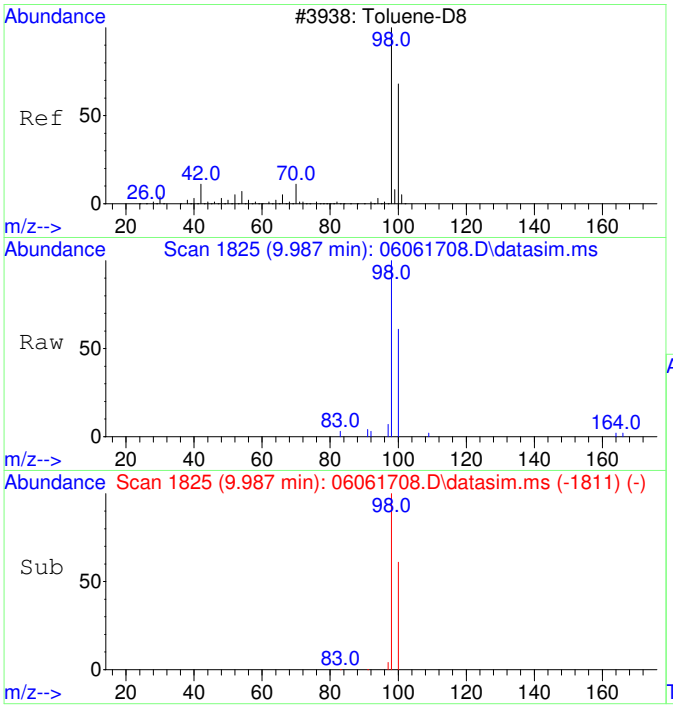


#11
Trichloroethene
Concen: 49.02 ug/L
RT: 8.068 min Scan# 1526
Delta R.T. 0.005 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:130 Resp: 2095

Ion	Ratio	Lower	Upper
130	100		
95	100.8	69.8	129.8
132	97.9	76.4	116.4
97	64.5	44.3	84.3

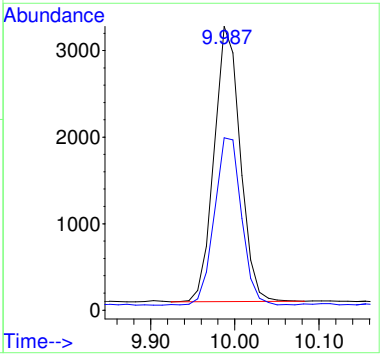


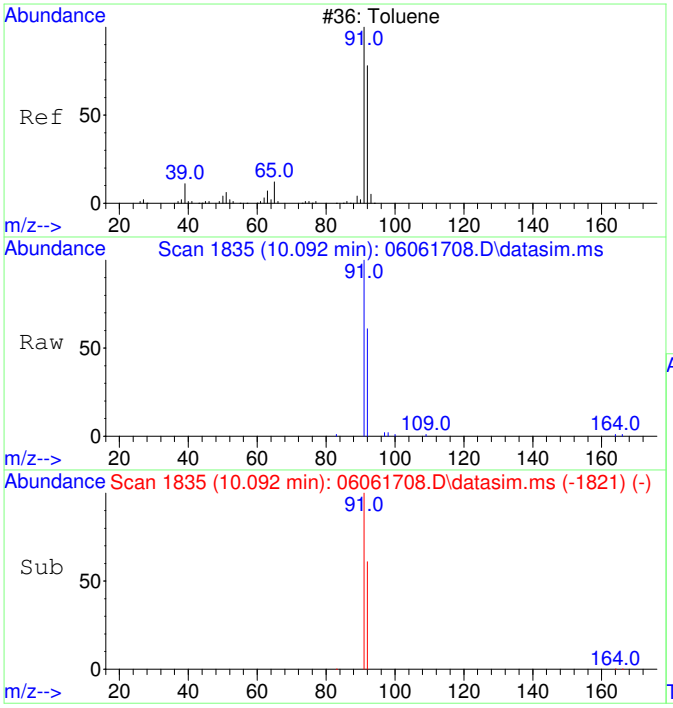


#12
Toluene-d8
Concen: 49.91 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 98 Resp: 6844

Ion	Ratio	Lower	Upper
98	100		
100	62.9	34.2	94.2

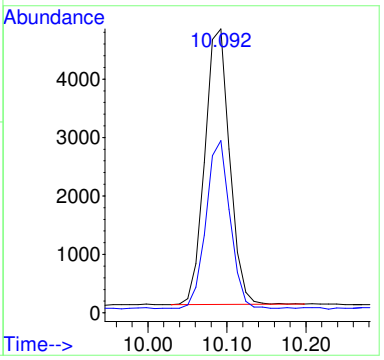


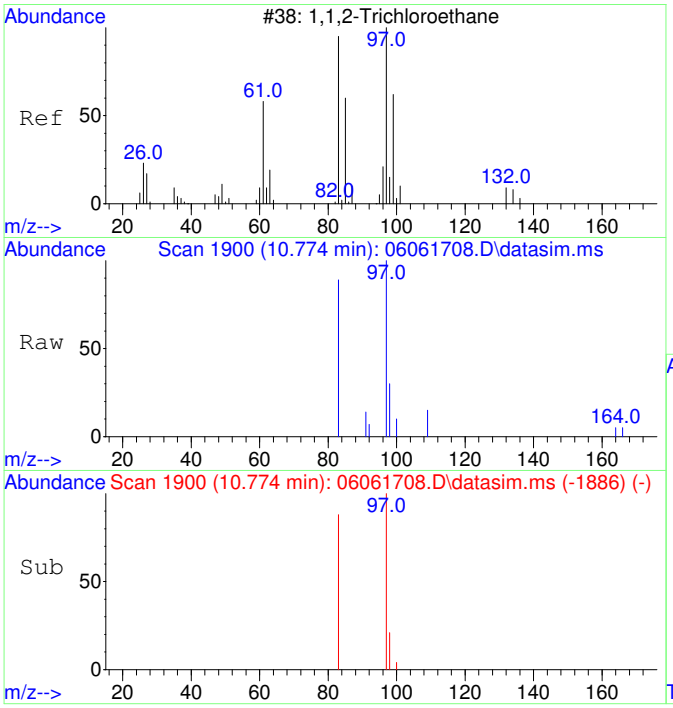


#13
Toluene
Concen: 56.63 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 10284

Ion	Ratio	Lower	Upper
91	100		
92	58.2	28.4	88.4

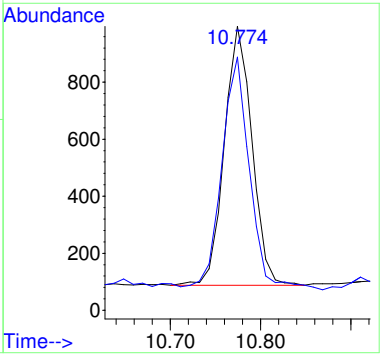


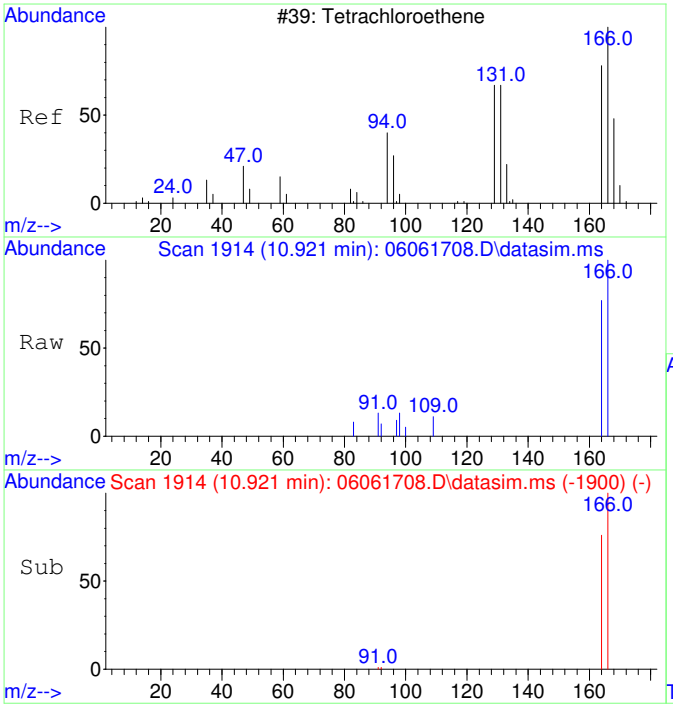


#14
1,1,2-Trichloroethane
Concen: 49.88 ug/L
RT: 10.774 min Scan# 1900
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 97 Resp: 1937

Ion	Ratio	Lower	Upper
97	100		
83	82.3	54.5	114.5

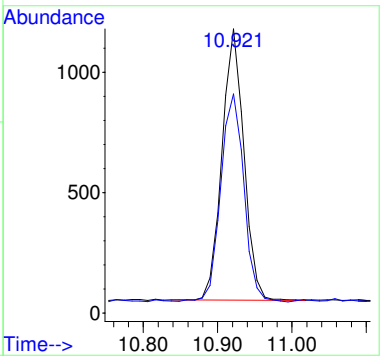


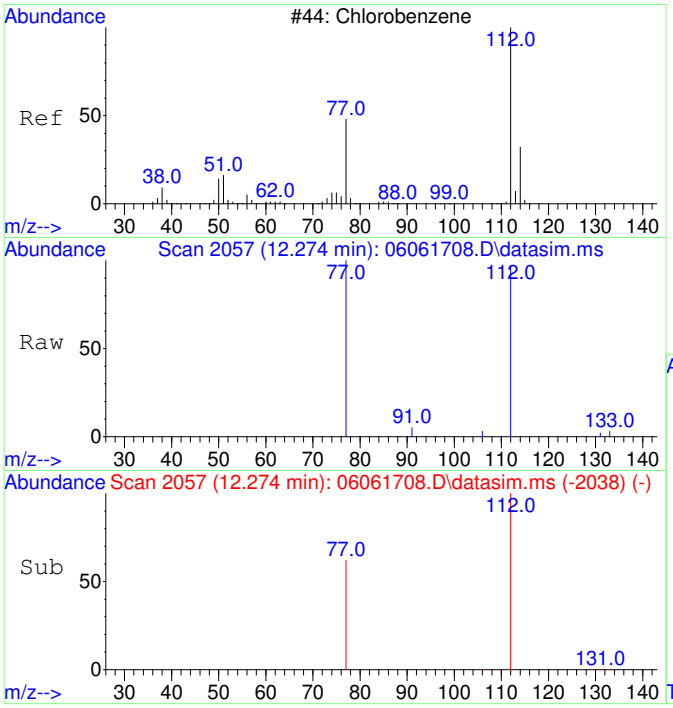


#15
Tetrachloroethene
Concen: 49.31 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:166 Resp: 2295

Ion	Ratio	Lower	Upper
166	100		
164	79.7	48.2	108.2

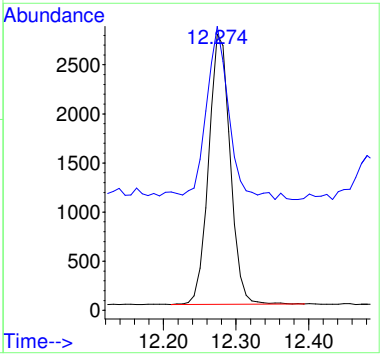


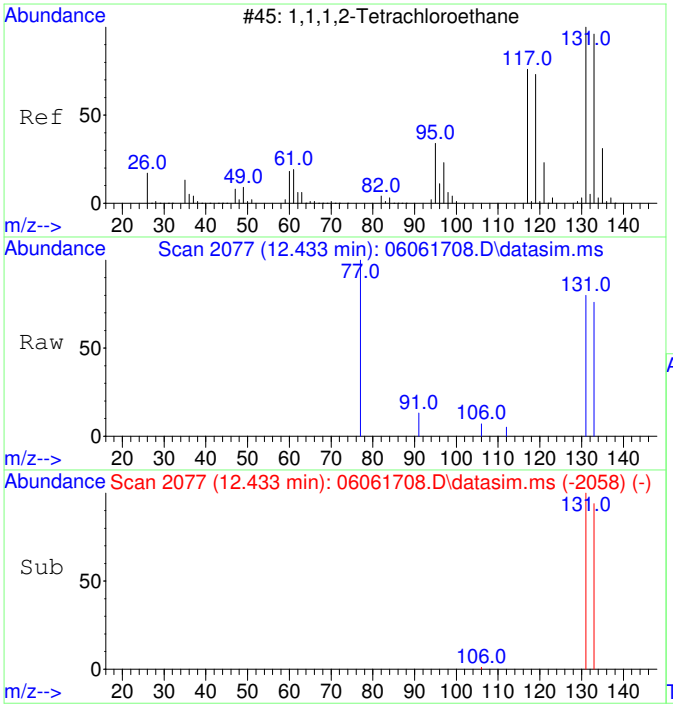


#16
Chlorobenzene
Concen: 49.15 ug/L
RT: 12.274 min Scan# 2057
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:112 Resp: 5669

Ion	Ratio	Lower	Upper
112	100		
77	63.8	28.9	88.9

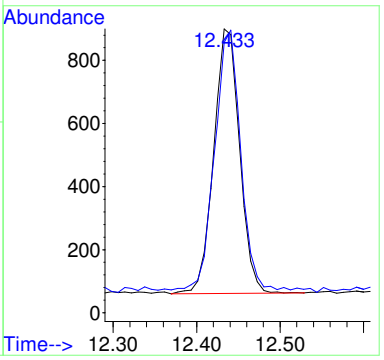


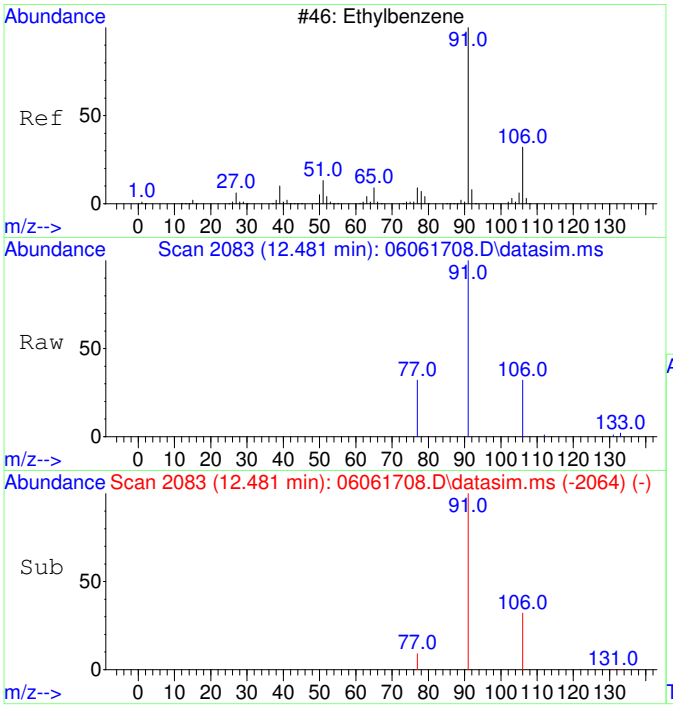


#17
1,1,1,2-Tetrachloroethane
Concen: 47.81 ug/L
RT: 12.433 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:131 Resp: 1810

Ion	Ratio	Lower	Upper
131	100		
133	98.2	65.2	125.2

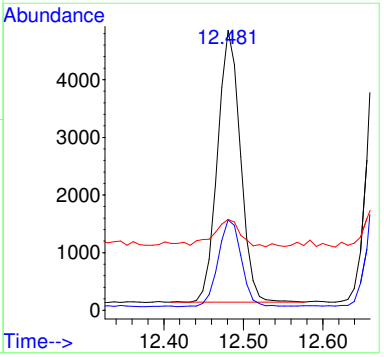


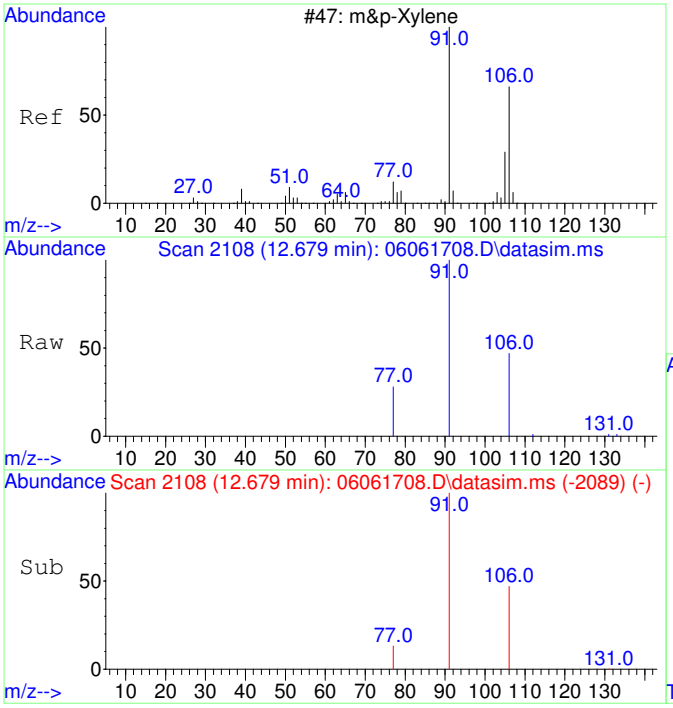


#18
Ethylbenzene
Concen: 48.33 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 9446

Ion	Ratio	Lower	Upper
91	100		
106	31.8	1.2	61.2
77	10.7	0.0	38.6

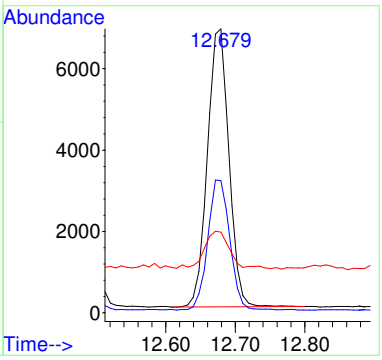


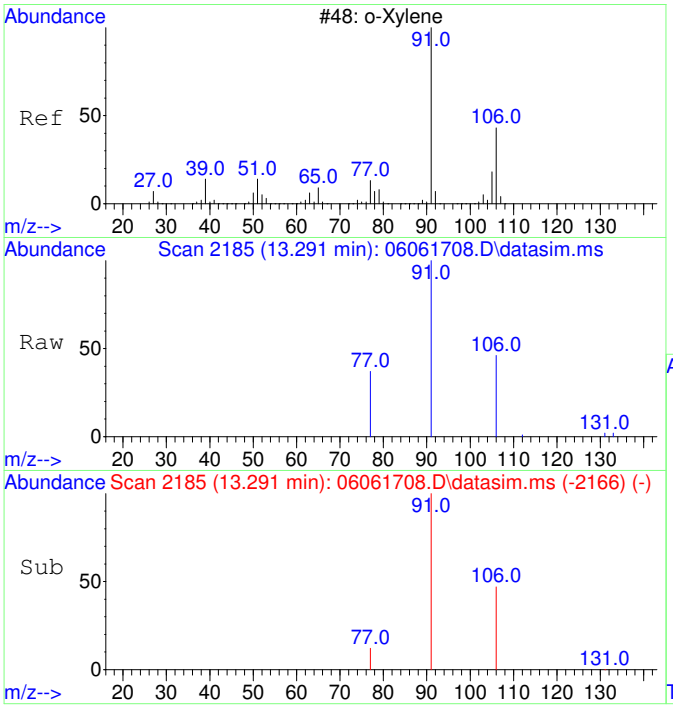


#19
m&p-Xylene
Concen: 95.67 ug/L
RT: 12.679 min Scan# 2108
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 14667

Ion	Ratio	Lower	Upper
91	100		
106	47.4	18.4	78.4
77	13.5	0.0	43.0

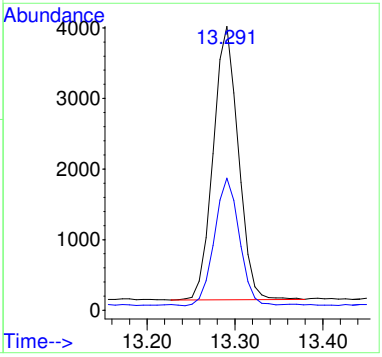


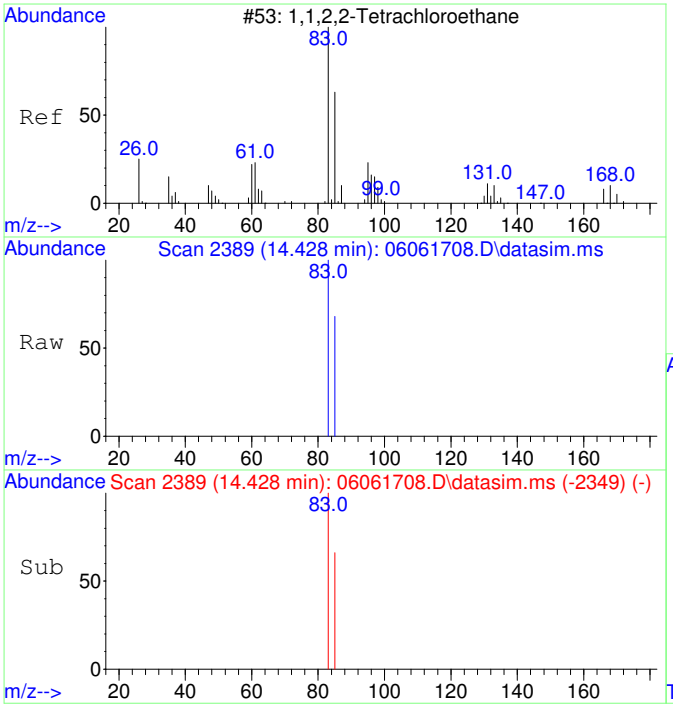


#20
o-Xylene
Concen: 48.46 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 7684

Ion	Ratio	Lower	Upper
91	100		
106	46.8	16.0	76.0

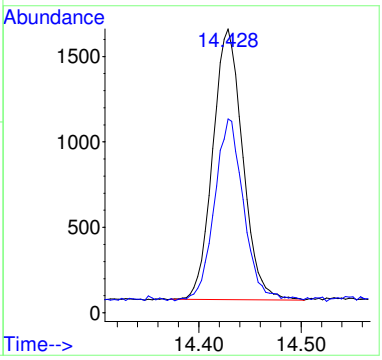


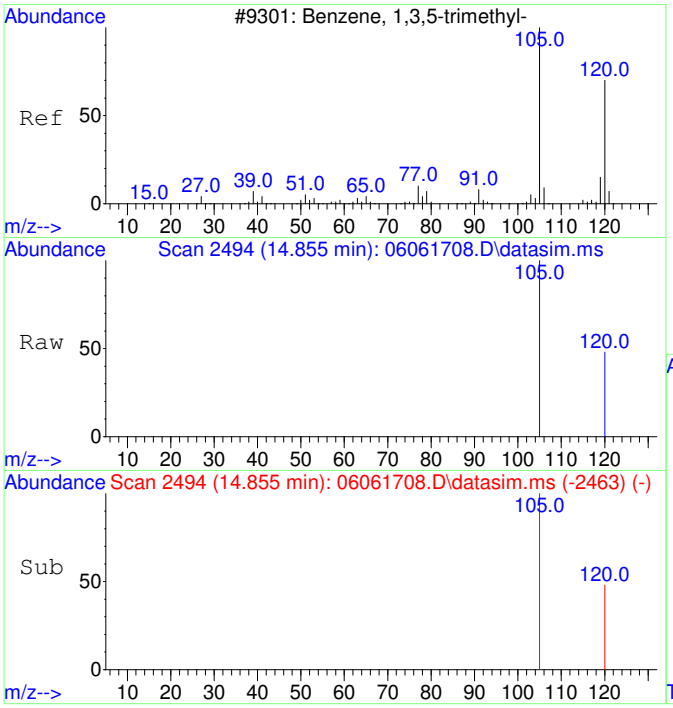


#21
1,1,2,2-Tetrachloroethane
Concen: 47.69 ug/L
RT: 14.428 min Scan# 2389
Delta R.T. -0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 83 Resp: 3216

Ion	Ratio	Lower	Upper
83	100		
85	64.2	34.2	94.2

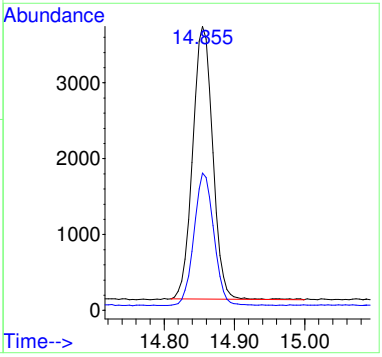


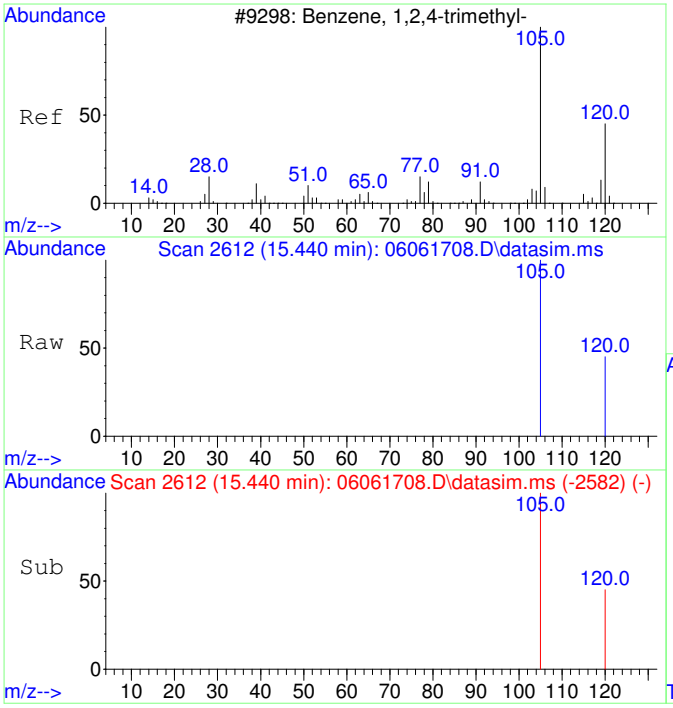


#22
1,3,5-Trimethylbenzene
Concen: 45.42 ug/L
RT: 14.855 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:105 Resp: 7110

Ion	Ratio	Lower	Upper
105	100		
120	47.5	18.0	78.0

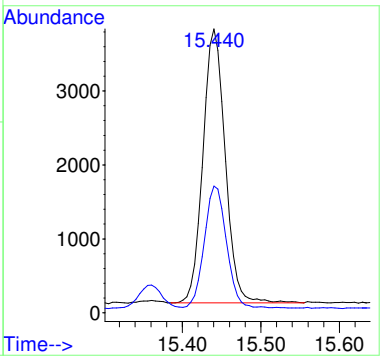


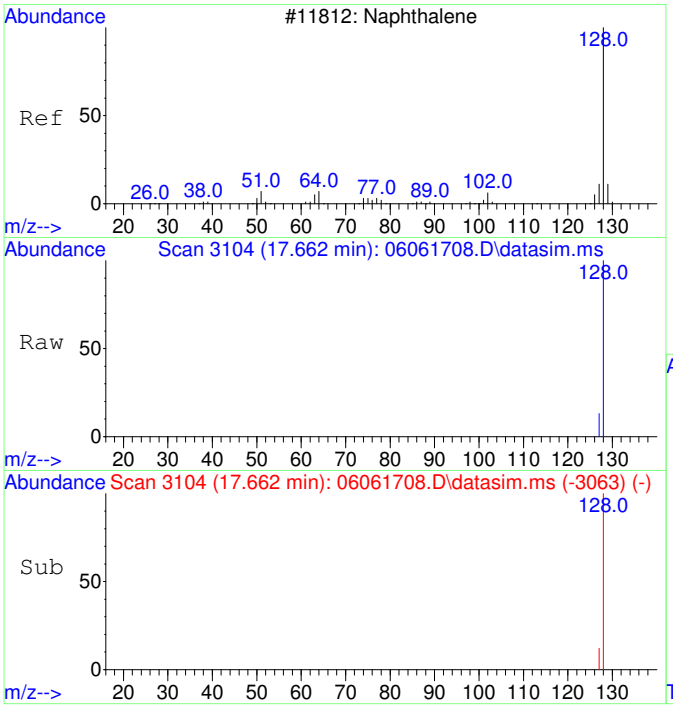


#23
1,2,4-Trimethylbenzene
Concen: 45.38 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:105 Resp: 7283

Ion	Ratio	Lower	Upper
105	100		
120	43.7	14.4	74.4

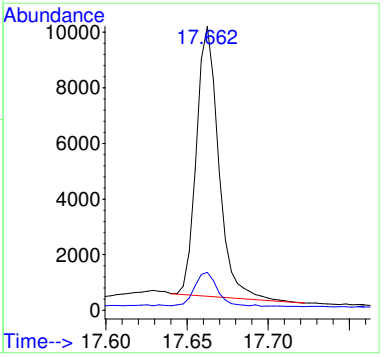


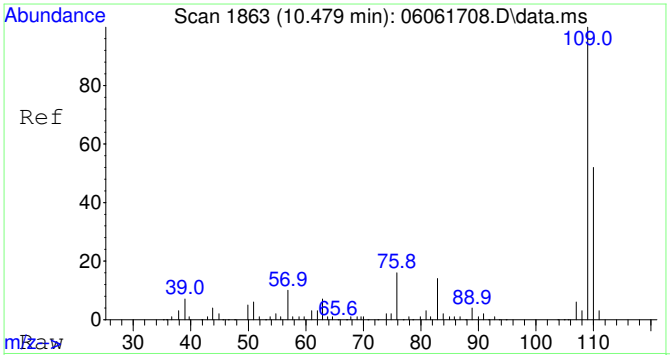


#24
Naphthalene
Concen: 38.95 ug/L
RT: 17.662 min Scan# 3104
Delta R.T. 0.001 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:128 Resp: 9258

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.7

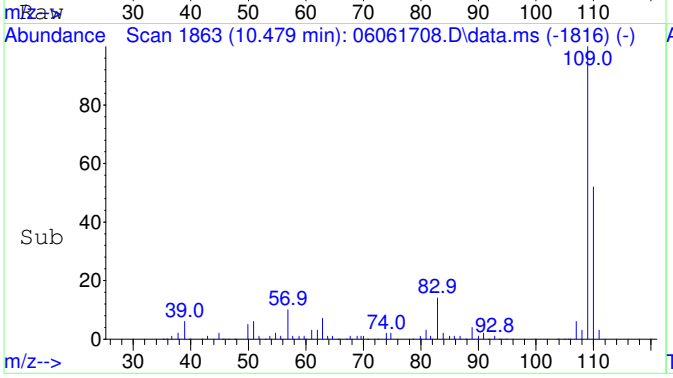


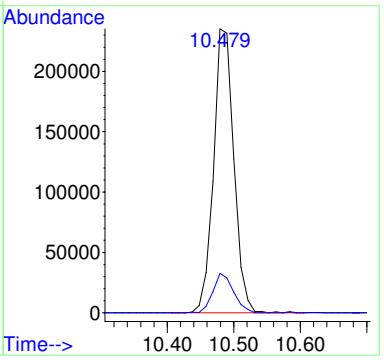


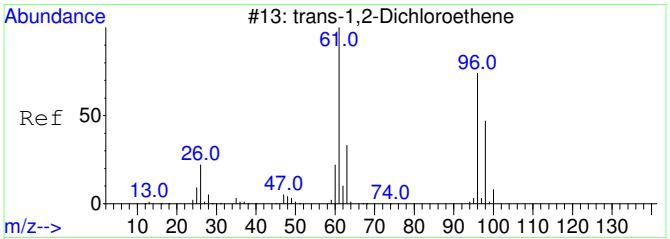
#25
2-Fluorotoluene SCAN
Concen: 4930.90 ug/L
RT: 10.479 min Scan# 1863
Delta R.T. -0.010 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:109 Resp: 500578

Ion	Ratio	Lower	Upper
109	100		
83	14.2	0.0	46.1



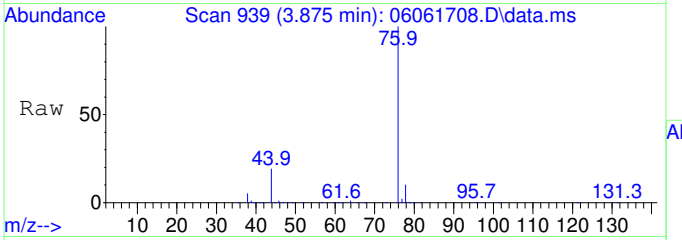


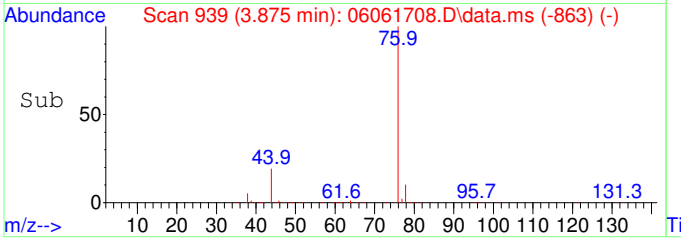


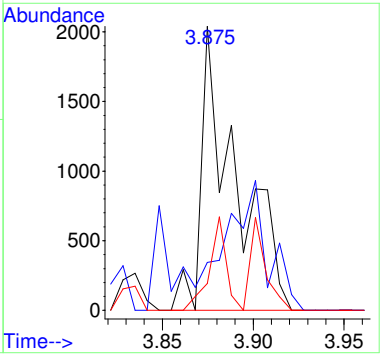
#27
trans-1,2-Dichloroethene SCAN
Concen: 59.80 ug/L
RT: 3.875 min Scan# 939
Delta R.T. 0.007 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

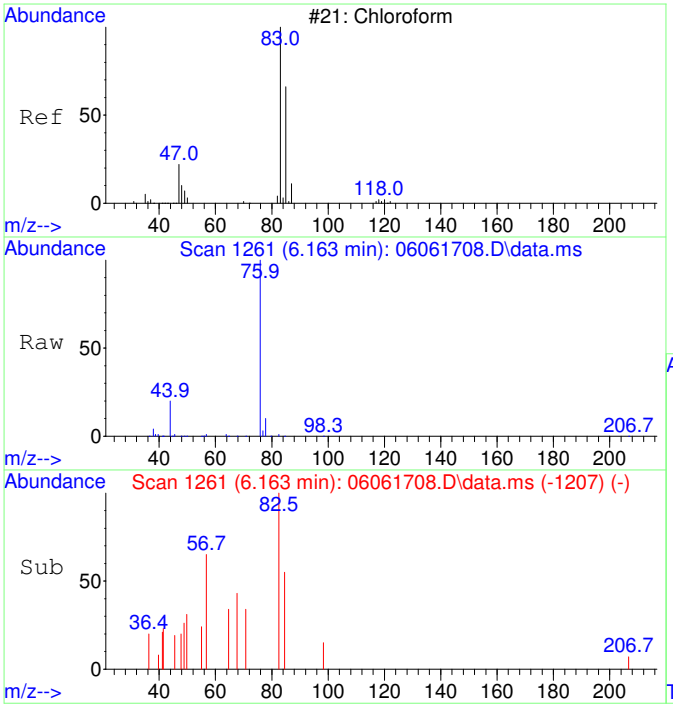
Tgt Ion: 61 Resp: 2726

Ion	Ratio	Lower	Upper
61	100		
96	0.0	26.1	86.1#
98	15.7	4.4	64.4





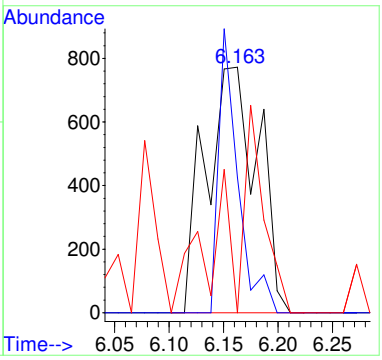


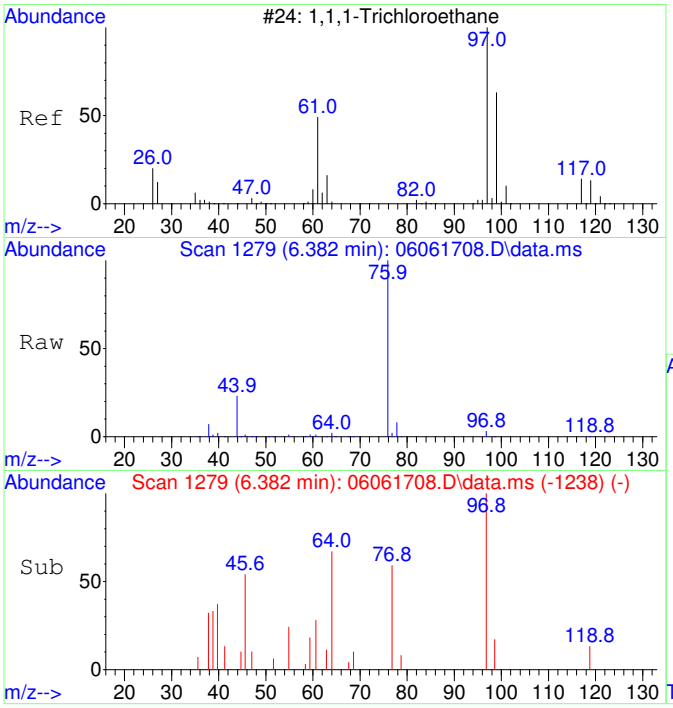


#30
Chloroform SCAN
Concen: 54.62 ug/L
RT: 6.163 min Scan# 1261
Delta R.T. 0.012 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 83 Resp: 2590

Ion	Ratio	Lower	Upper
83	100		
85	42.5	31.2	91.2
47	0.0	3.2	63.2#

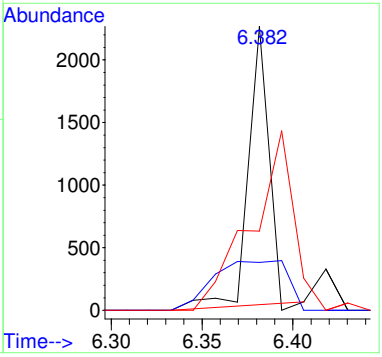


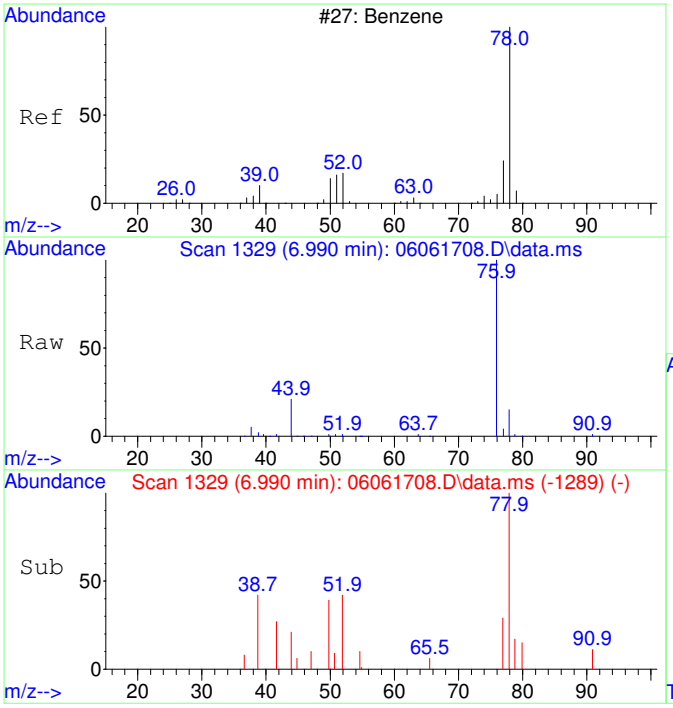


#31
1,1,1-Trichloroethane SCAN
Concen: 44.36 ug/L
RT: 6.382 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 97 Resp: 1731

Ion	Ratio	Lower	Upper
97	100		
99	65.0	38.7	98.7
61	137.1	27.8	87.8#

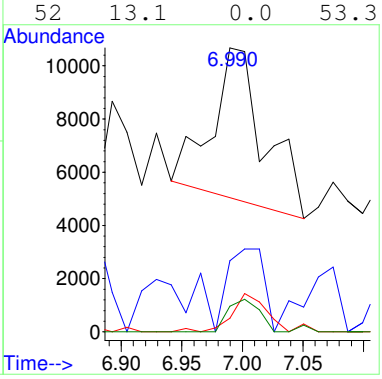


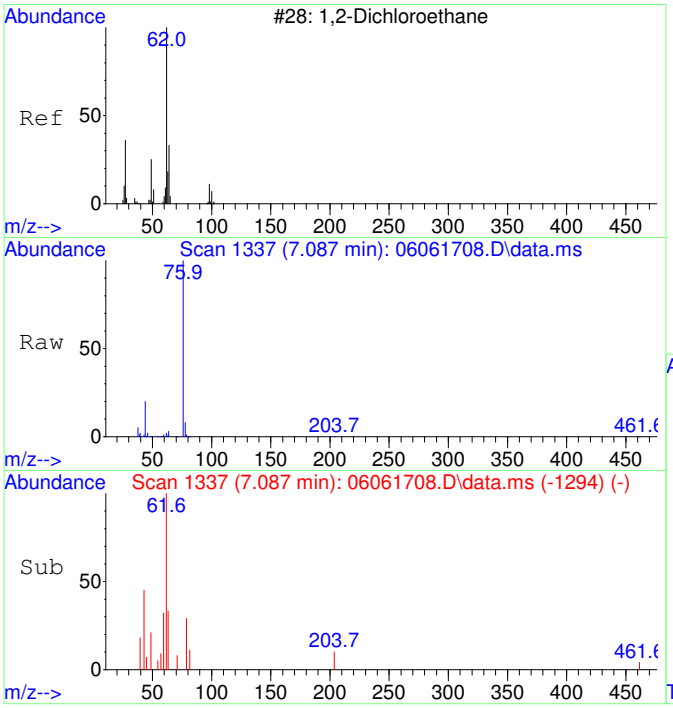


#33
Benzene SCAN
Concen: 156.64 ug/L
RT: 6.990 min Scan# 1329
Delta R.T. -0.012 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 78 Resp: 16834

Ion	Ratio	Lower	Upper
78	100		
77	35.6	0.0	55.2
51	17.9	0.0	52.4
52	13.1	0.0	53.3

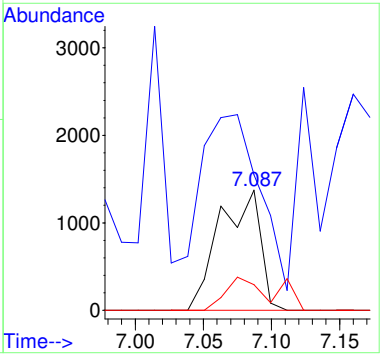


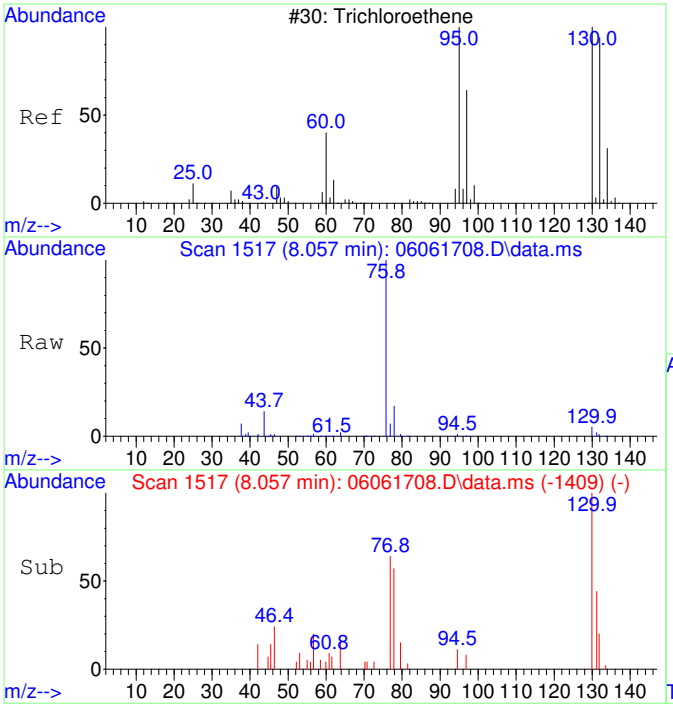


#34
1,2-Dichloroethane SCAN
Concen: 62.17 ug/L
RT: 7.087 min Scan# 1337
Delta R.T. 0.024 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 62 Resp: 2883

Ion	Ratio	Lower	Upper
62	100		
64	168.4	7.4	67.4#
49	32.0	0.0	54.8

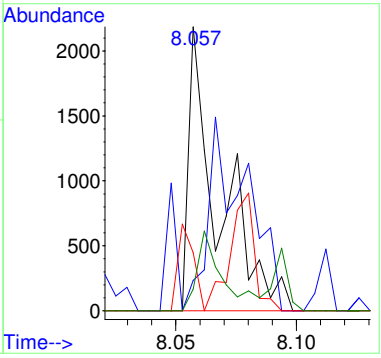


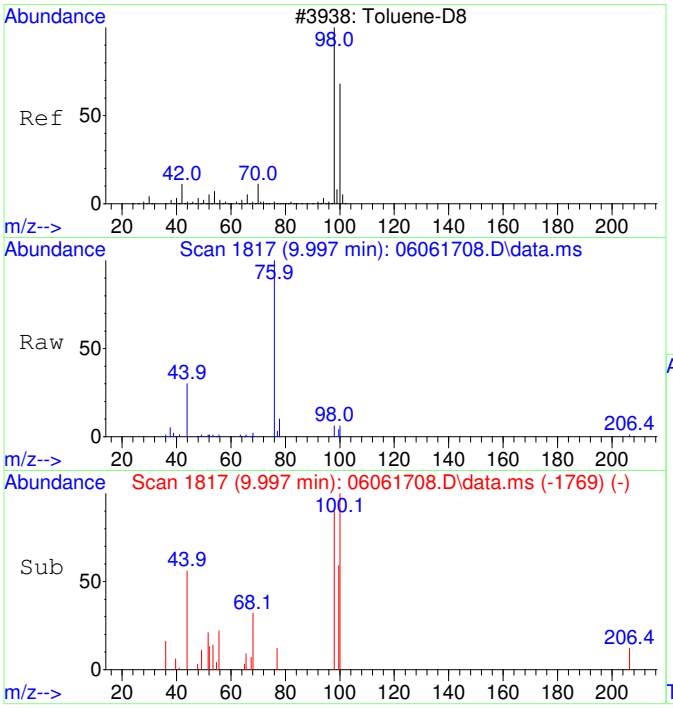


#35
Trichloroethene SCAN
Concen: 75.22 ug/L
RT: 8.057 min Scan# 1517
Delta R.T. -0.004 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:130 Resp: 1872

Ion	Ratio	Lower	Upper
130	100		
95	88.2	76.1	136.1
132	16.4	65.6	125.6#
97	19.6	41.8	101.8#

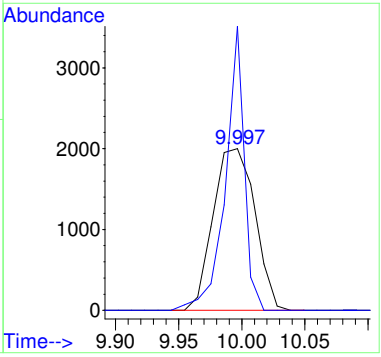


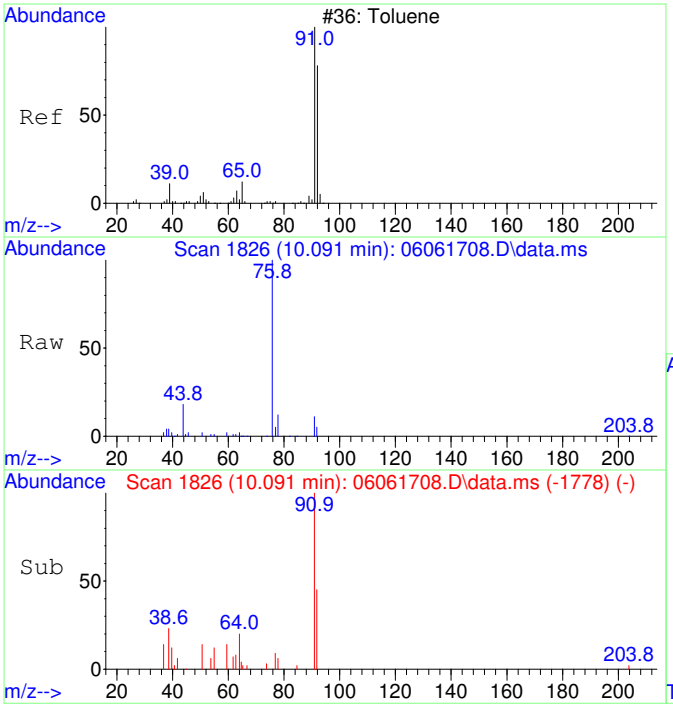


#36
Toluene-d8 SCAN
Concen: 55.15 ug/L
RT: 9.997 min Scan# 1817
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 98 Resp: 4621

Ion	Ratio	Lower	Upper
98	100		
100	78.5	36.2	96.2

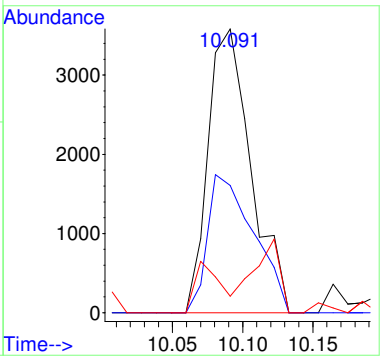


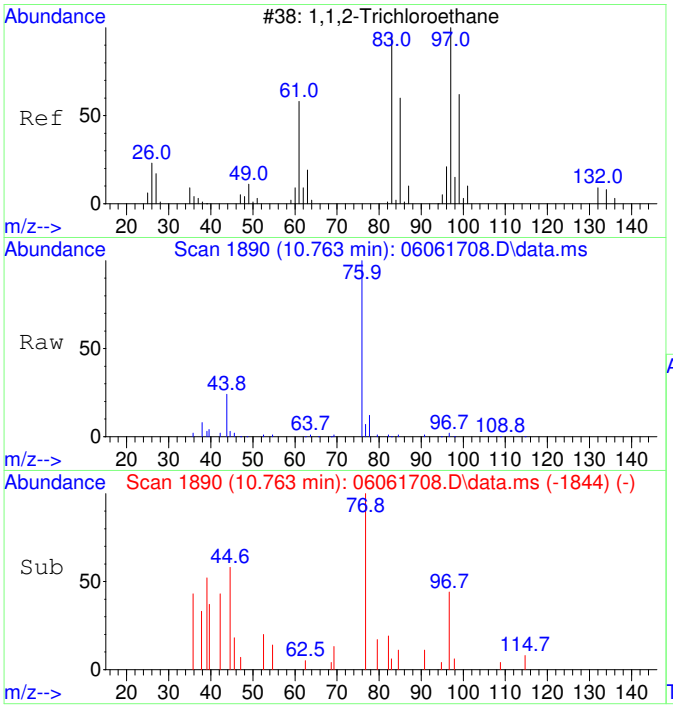


#37
Toluene SCAN
Concen: 68.65 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 7672

Ion	Ratio	Lower	Upper
91	100		
92	52.2	29.2	89.2
65	0.0	0.0	44.3

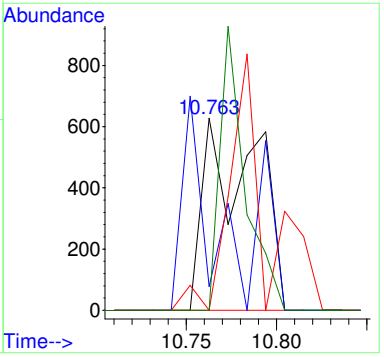


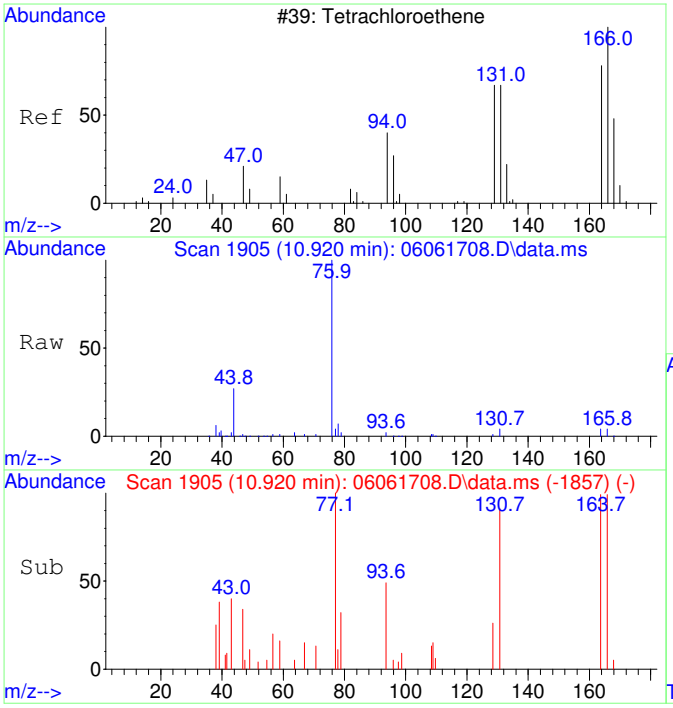


#38
1,1,2-Trichloroethane SCAN
Concen: 49.98 ug/L
RT: 10.763 min Scan# 1890
Delta R.T. -0.021 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 97 Resp: 1258

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.8	117.8#
61	0.0	48.6	108.6#
99	71.4	32.7	92.7

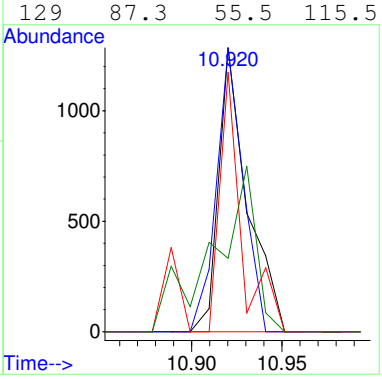


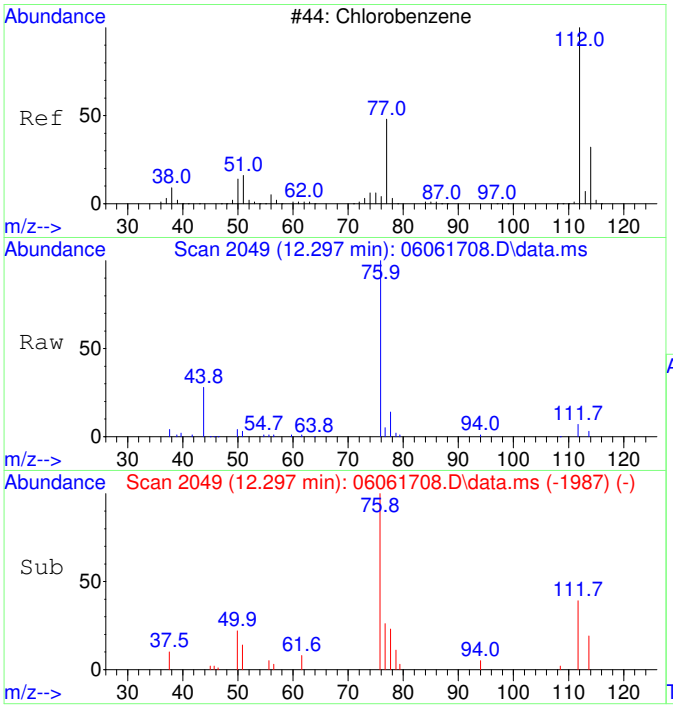


#39
Tetrachloroethene SCAN
Concen: 62.38 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:166 Resp: 1429

Ion	Ratio	Lower	Upper
166	100		
164	93.3	45.7	105.7
131	85.0	44.8	104.8
129	87.3	55.5	115.5

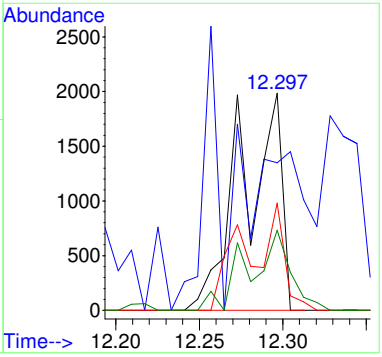


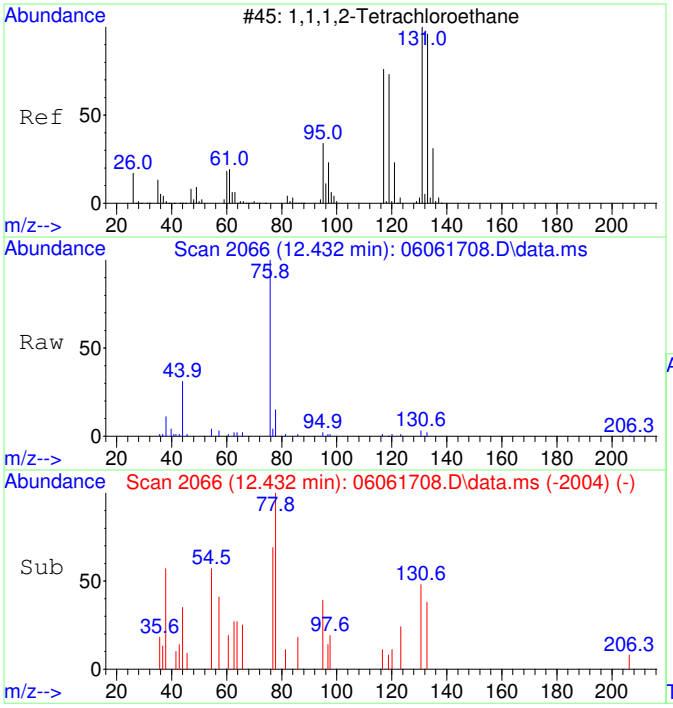


#40
Chlorobenzene SCAN
Concen: 47.62 ug/L
RT: 12.297 min Scan# 2049
Delta R.T. 0.016 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:112 Resp: 3269

Ion	Ratio	Lower	Upper
112	100		
77	35.0	35.1	95.1#
114	47.5	2.6	62.6
51	39.2	3.7	63.7

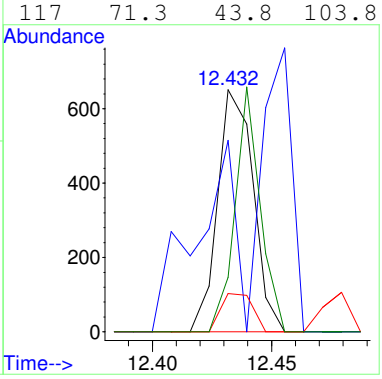


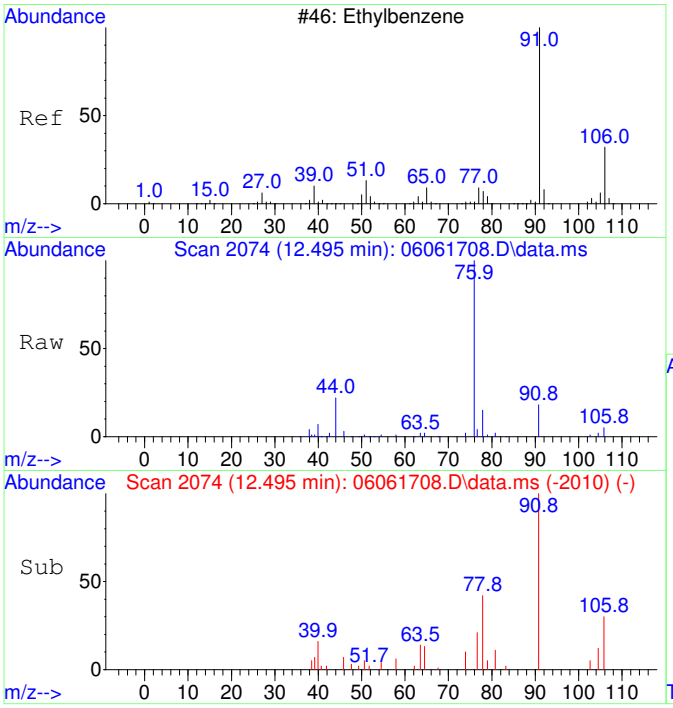


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 31.78 ug/L
RT: 12.432 min Scan# 2066
Delta R.T. -0.008 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:131 Resp: 679

Ion	Ratio	Lower	Upper
131	100		
133	88.8	63.5	123.5
119	14.1	38.0	98.0#
117	71.3	43.8	103.8

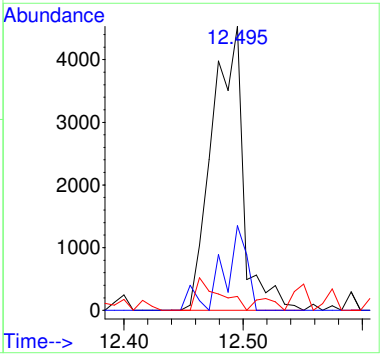


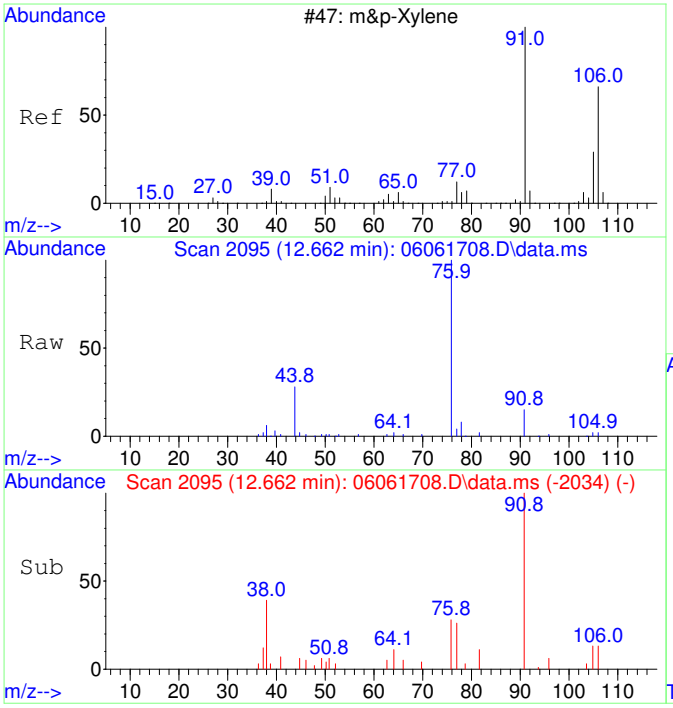


#42
Ethylbenzene SCAN
Concen: 66.50 ug/L
RT: 12.495 min Scan# 2074
Delta R.T. 0.008 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 8321

Ion	Ratio	Lower	Upper
91	100		
106	22.7	0.0	59.8
51	0.0	0.0	45.5

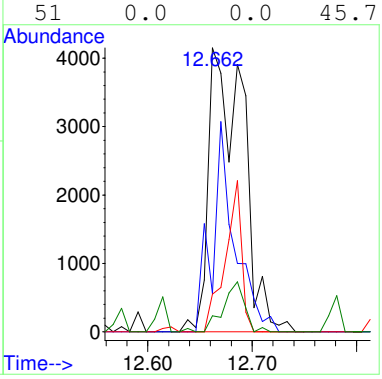


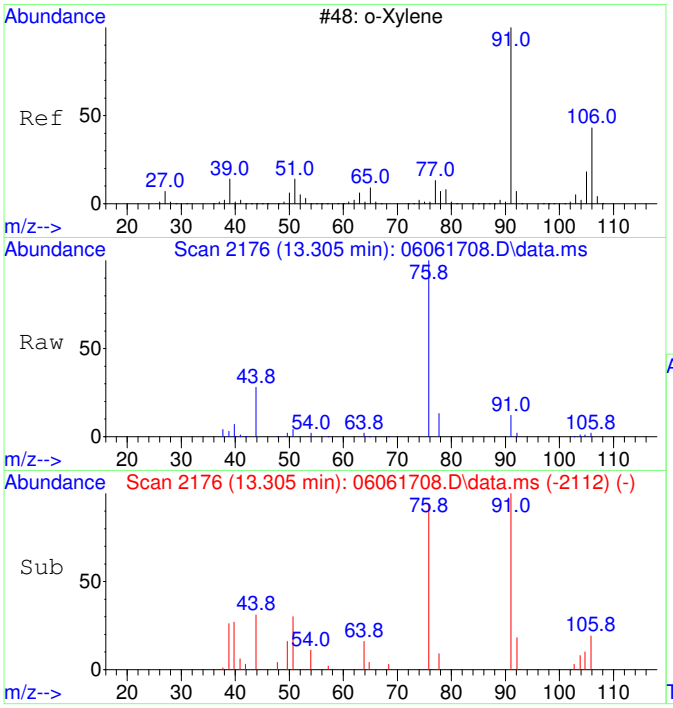


#43
m&p-Xylene SCAN
Concen: 49.59 ug/L
RT: 12.662 min Scan# 2095
Delta R.T. -0.016 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 9688

Ion	Ratio	Lower	Upper
91	100		
106	47.4	18.5	78.5
105	0.0	0.0	51.3
51	0.0	0.0	45.7

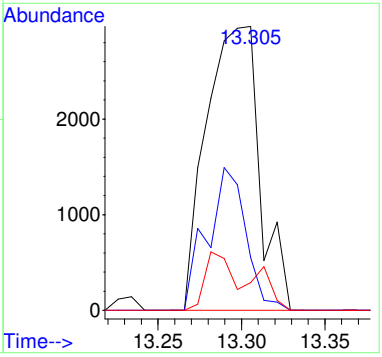


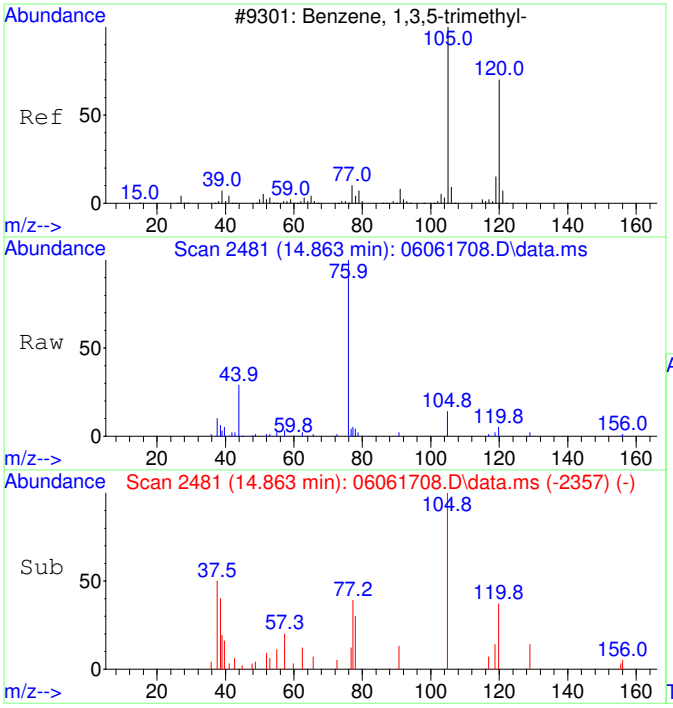


#44
o-Xylene SCAN
Concen: 65.82 ug/L
RT: 13.305 min Scan# 2176
Delta R.T. 0.008 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion: 91 Resp: 6622

Ion	Ratio	Lower	Upper
91	100		
106	0.0	15.5	75.5#
105	0.0	0.0	54.1

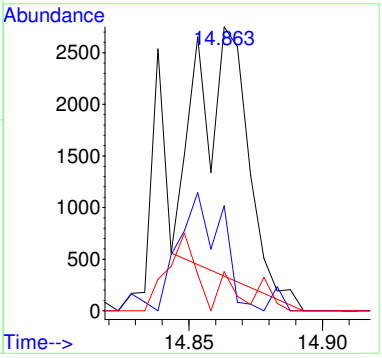


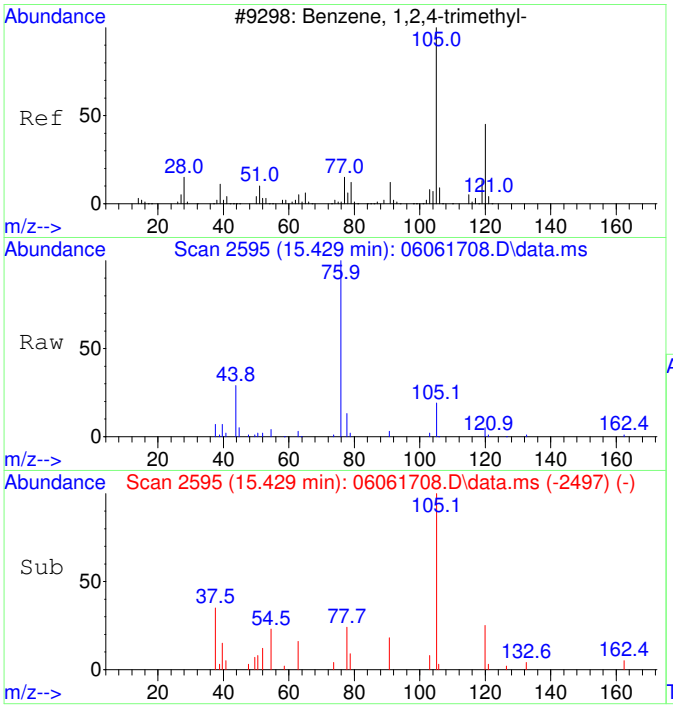


#46
1,3,5-Trimethylbenzene SCAN
Concen: 31.91 ug/L
RT: 14.863 min Scan# 2481
Delta R.T. 0.006 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:105 Resp: 3045

Ion	Ratio	Lower	Upper
105	100		
120	43.8	17.3	77.3
119	18.0	0.0	42.7

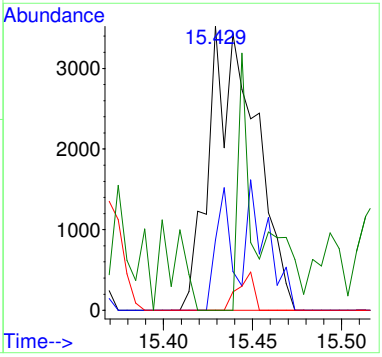


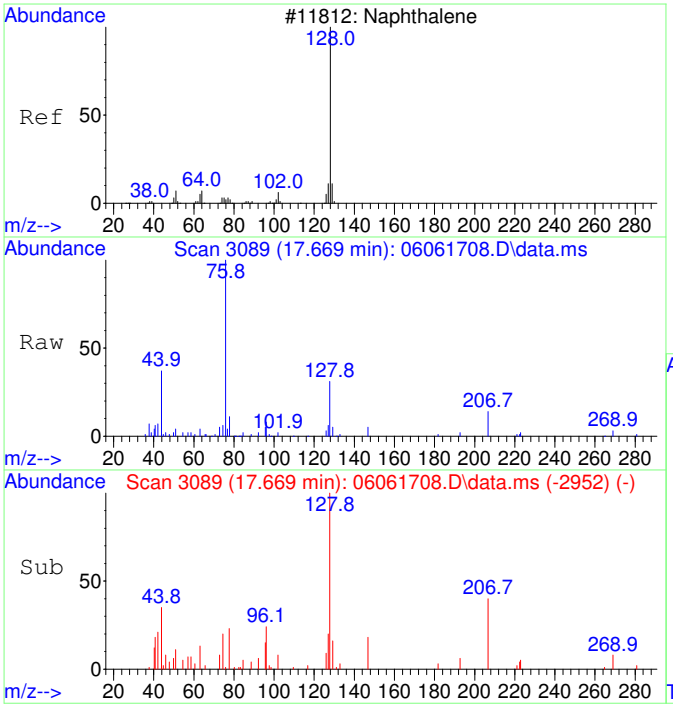


#47
1,2,4-Trimethylbenzene SCAN
Concen: 64.80 ug/L
RT: 15.429 min Scan# 2595
Delta R.T. -0.014 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:105 Resp: 6444

Ion	Ratio	Lower	Upper
105	100		
120	11.9	12.9	72.9#
119	0.0	0.0	40.5
77	0.0	0.0	43.3

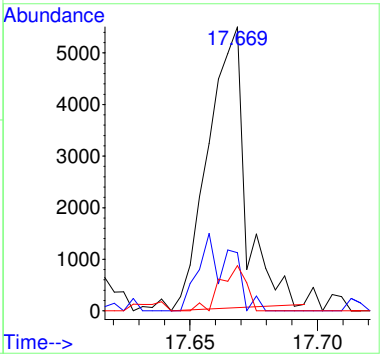




#48
Naphthalene SCAN
Concen: 40.76 ug/L
RT: 17.669 min Scan# 3089
Delta R.T. 0.009 min
Lab File: 06061708.D
Acq: 6 Jun 2017 14:03

Tgt Ion:128 Resp: 5590

Ion	Ratio	Lower	Upper
128	100		
127	23.7	0.0	43.9
129	11.0	0.0	41.0



S17F020-SCV1

SCV REPORT

Instrument Name: AG5975C
Sample Name: S17F020SCV1
Misc Info: 1717064 5 mg/L
Date Acquired: 6/6/2017
QLast Update: Tue Jun 06 15:10:51 2017
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.480	5000	5000.00	100%	70	130	pass
2)	1,1-Dichloroethene	2.711	5000	4548.21	91%	70	130	pass
3)	trans-1,2-Dichloroethene	3.869	5000	4911.60	98%	70	130	pass
4)	1,1-Dichloroethane	4.553	5000	4995.44	100%	70	130	pass
5)	cis-1,2-Dichloroethene	5.568	5000	4966.86	99%	70	130	pass
6)	Chloroform	6.152	5000	4787.32	96%	70	130	pass
7)	1,1,1-Trichloroethane	6.383	5000	4948.80	99%	70	130	pass
8)	Carbon tetrachloride	6.638	5000	4890.18	98%	70	130	pass
9)	Benzene	6.991	5000	4750.61	95%	70	130	pass
10)	1,2-Dichloroethane	7.064	5000	5039.17	101%	70	130	pass
11)	Trichloroethene	8.063	5000	4869.35	97%	70	130	pass
12)	Toluene-d8	9.987	5000	5012.96	100%	70	130	pass
13)	Toluene	10.092	5000	4701.98	94%	70	130	pass
14)	1,1,2-Trichloroethane	10.774	5000	4929.85	99%	70	130	pass
15)	Tetrachloroethene	10.921	5000	4838.94	97%	70	130	pass
16)	Chlorobenzene	12.274	5000	4878.40	98%	70	130	pass
17)	1,1,1,2-Tetrachloroethane	12.433	5000	5018.04	100%	70	130	pass
18)	Ethylbenzene	12.480	5000	4870.92	97%	70	130	pass
19)	m&p-Xylene	12.679	10000	9863.97	99%	70	130	pass
20)	o-Xylene	13.291	5000	4871.17	97%	70	130	pass
21)	1,1,2,2-Tetrachloroethane	14.429	5000	4882.56	98%	70	130	pass
22)	1,3,5-Trimethylbenzene	14.853	5000	5137.97	103%	70	130	pass
23)	1,2,4-Trimethylbenzene	15.439	5000	4980.50	100%	70	130	pass
24)	Naphthalene	17.661	5000	5320.16	106%	70	130	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061709.D
Acq On : 6 Jun 2017 14:26
InstName : AG5975C
Operator : RH
Sample : S17F020SCV1
Misc : 1717064 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 06 15:11:19 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

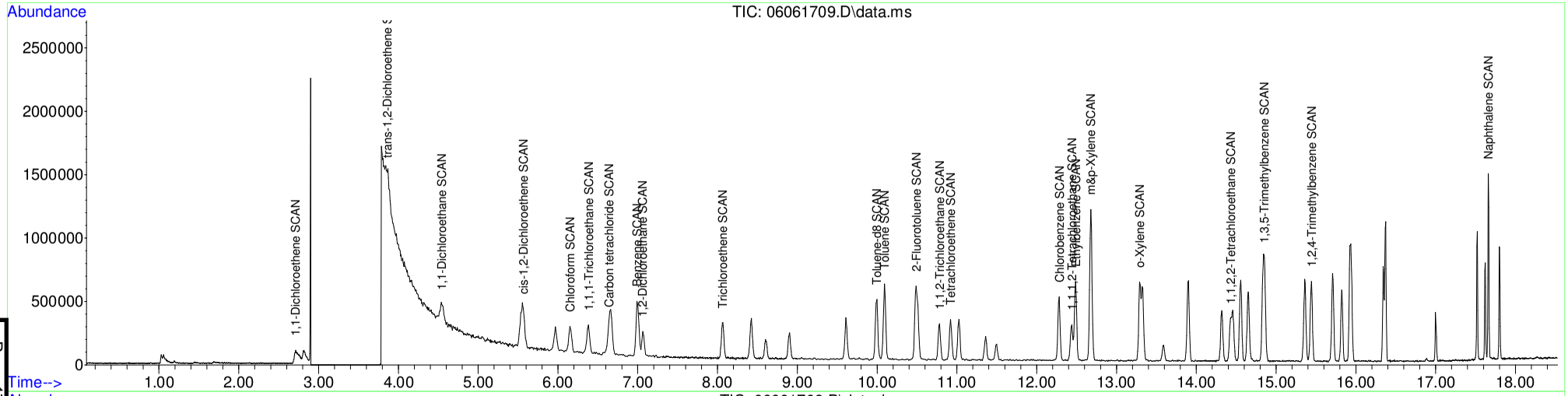
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.481	109	706482	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	579998	5012.96 ug/L	0.00
Spiked Amount 5000.000 Range 70 - 130 Recovery = 100.26%					
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.711	61	253416	4548.21 ug/L	100
3] trans-1,2-Dichloroethene	3.863	61	296608	4911.60 ug/L	100
4] 1,1-Dichloroethane	4.546	63	325171	4995.44 ug/L	100
5] cis-1,2-Dichloroethene	5.561	61	309045	4966.86 ug/L	100
6] Chloroform	6.152	83	288239	4787.32 ug/L	99
7] 1,1,1-Trichloroethane	6.383	97	273656	4948.80 ug/L	100
8] Carbon tetrachloride	6.638	117	233271	4890.18 ug/L	99
9] Benzene	6.991	78	666099	4750.61 ug/L	100
10] 1,2-Dichloroethane	7.052	62	261770	5039.17 ug/L	100
11] Trichloroethene	8.063	130	175588	4869.35 ug/L	100
13] Toluene	10.082	91	720422	4701.98 ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	161520	4929.85 ug/L	100
15] Tetrachloroethene	10.921	166	190029	4838.94 ug/L	100
16] Chlorobenzene	12.274	112	474779	4878.40 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.433	131	160297	5018.04 ug/L	100
18] Ethylbenzene	12.481	91	803182	4870.92 ug/L	100
19] m&p-Xylene	12.671	91	1275956	9863.97 ug/L	100
20] o-Xylene	13.291	91	651661	4871.17 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	277800	4882.56 ug/L	100
22] 1,3,5-Trimethylbenzene	14.855	105	678677	5137.97 ug/L	100
23] 1,2,4-Trimethylbenzene	15.440	105	674433	4980.50 ug/L	100
24] Naphthalene	17.663	128	1066915	5320.16 ug/L	100
25) 2-Fluorotoluene SCAN	10.490	109	429317	5012.10 ug/L	93
26) 1,1-Dichloroethene SCAN	2.713	61	176715	4903.35 ug/L	96
27) trans-1,2-Dichloroethe...	3.861	61	197231	5128.00 ug/L	100
28) 1,1-Dichloroethane SCAN	4.545	63	230263	5251.04 ug/L	95
29) cis-1,2-Dichloroethene...	5.567	61	222453	5013.73 ug/L	97
30) Chloroform SCAN	6.151	83	197497	4936.30 ug/L	99
31) 1,1,1-Trichloroethane ...	6.382	97	180288	5475.65 ug/L	94
32) Carbon tetrachloride SCAN	6.637	117	141494	4668.16 ug/L	95
33) Benzene SCAN	6.990	78	435023	4797.43 ug/L	98
34) 1,2-Dichloroethane SCAN	7.063	62	197356	5044.09 ug/L	92
35) Trichloroethene SCAN	8.062	130	99584	4742.32 ug/L	95
36) Toluene-d8 SCAN	9.997	98	359559	5086.21 ug/L	99
37) Toluene SCAN	10.091	91	459895	4877.59 ug/L	99
38) 1,1,2-Trichloroethane ...	10.784	97	96401	4539.68 ug/L	94
39) Tetrachloroethene SCAN	10.920	166	101660	5259.24 ug/L	96
40) Chlorobenzene SCAN	12.281	112	276786	4779.02 ug/L	97
41) 1,1,1,2-Tetrachloroeth...	12.440	131	83707	4643.82 ug/L	95
42) Ethylbenzene SCAN	12.487	91	497058	4708.12 ug/L	99
43) m&p-Xylene SCAN	12.678	91	804887	4882.94 ug/L	97
44) o-Xylene SCAN	13.290	91	401205	4726.63 ug/L	97
45) 1,1,2,2-Tetrachloroeth...	14.427	83	184185	4796.87 ug/L	98
46) 1,3,5-Trimethylbenzene...	14.853	105	400381	4972.73 ug/L	98
47) 1,2,4-Trimethylbenzene...	15.444	105	401760	4788.29 ug/L	98
48) Naphthalene SCAN	17.661	128	576534	4982.18 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061709.D
Acq On : 6 Jun 2017 14:26
InstName : AG5975C
Operator : RH
Sample : S17F020SCV1
Misc : 1717064 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 06 15:11:19 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration



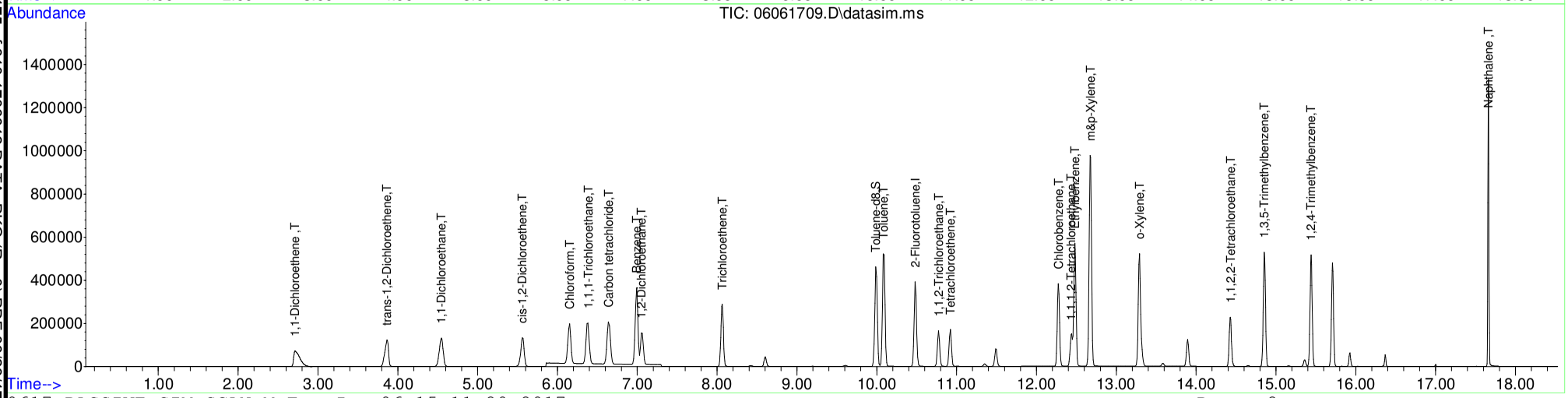


Table of Contents

SEQUENCE

S17F037

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B17F042	SEQUENCE #:	S17F037
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?	☐	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.	Tue Jun 06 15:10:51 2017			
	Initial Calibration ID (LIMS number):	1706007			
	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	B17F042-BS1 fails 1,1,2-Trichloroethane low.
	MSs/MSDs and/or DUPs within QC criteria?	✔			
	Other method-specific QCs within QC criteria? Specify if applicable.	✔			

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B17F042	SEQUENCE #:	S17F037
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?	☐	Y	Y	
SAMPLE DATA	Were samples prepared & analyzed within holding time?	☐	Y	Y	
	If samples need to be re-run, were RE(s) made in LIMS?	☐	Y	Y	
	Do any samples need to be re-digested or re-extracted?	✔			
	Were all data qualifiers appropriately applied?	☐	Y	Y	
	Are problems, anomalies, discrepancies documented in LIMS? Specify if applicable.	✔			
MANUAL INT	Were manual integrations performed and documented? Specify if applicable.	☐	Y	Y	

APPROVALS	ANALYST INITIALS & DATE:	RH 6/12/17
	REVIEWED BY:	Ziyad Rajabi (affiliate) Digitally signed by Ziyad Rajabi (affiliate) Date: 2017.06.14 11:56:10 -07'00' SIGN HERE

COMMENTS

Limited project specific list

Injection Log

Operator: RH
Directory: C:\msdchem\1\Ravioli Data\2017\060917\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	06091701.D	1	S17F037-IBL1		9 Jun 2017 10:44
2	06091702.D	1	S17F037-TUN1	BFB 1652069	9 Jun 2017 11:05
3	06091703.D	1	S17F037-CCV1	1717064 5 mg/L	9 Jun 2017 11:14
4	06091704.D	1	S17F037-CRL1	1717062 0.05 mg/L	9 Jun 2017 11:38
5	06091705.D	1	S17F037-CRL2	1 0.15 mg/L Benzene only	9 Jun 2017 12:07
6	06091706.D	1	B17F042-BLK1		9 Jun 2017 12:31
7	06091707.D	1	B17F042-BS1		9 Jun 2017 12:55
8	06091708.D	1	B17F042-BSD1		9 Jun 2017 13:19
9	06091709.D	1	1706012-01		9 Jun 2017 13:42
10	06091710.D	1	1706012-02		9 Jun 2017 14:06
11	06091711.D	1	1706012-03		9 Jun 2017 14:30
12	06091712.D	1	1706012-04		9 Jun 2017 14:54
13	06091713.D	1	1706012-05		9 Jun 2017 15:18
14	06091714.D	1	1706012-06		9 Jun 2017 15:41
15	06091715.D	1	1706012-07		9 Jun 2017 16:05
16	06091716.D	1	1706012-08		9 Jun 2017 16:29

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\Ravioli Data\2017\060917\06091702.D
Tune Time : 9 Jun 2017 11:05

Daily Calibration File : C:\msdchem\1\Ravioli Data\2017\060917\06091703.D

File	Sample	Surrogate Recovery %	Internal Standard Responses
			600919
06091703.D			
	S17F037-CC	101	600919
06091704.D			
	S17F037-CR	1*	821821
06091705.D			
	S17F037-CR	3*	613718
06091706.D			
	B17F042-BL	105	774322
06091707.D			
	B17F042-BS	104	625895
06091708.D			
	B17F042-BS	104	503674
06091709.D			
	1706012-01	104	504155
06091710.D			
	1706012-02	103	829642
06091711.D			
	1706012-03	103	815605
06091712.D			
	1706012-04	102	693773
06091713.D			
	1706012-05	96	1161275
06091714.D			
	1706012-06	103	1056680
06091715.D			
	1706012-07	104	762396
06091716.D			
	1706012-08	105	711572

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

Created: Mon Jun 12 10:34:52 2017 AG5975C

Analysis Sequence

S17F037

Project: R17S65
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 1706007 Printed: 06/13/2017 4:15 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S17F037-IBL1	Instrument Blank	1						
S17F037-TUN1	BFB	2	6/9/17 11:05	1652069		RH	06091702.D	
S17F037-CCV1	1639124	3	6/9/17 11:14	1717059		RH	06091703.D	
S17F037-CRL1	1639127	4	6/9/17 11:38	1717062		RH	06091704.D	
S17F037-CRL2	1610057	5	6/9/17 12:07	1717061		RH	06091705.D	
B17F042-BLK1	Blank	6	6/9/17 12:31			RH	06091706.D	
B17F042-BS1	LCS	7	6/9/17 12:55			RH	06091707.D	
B17F042-BSD1	LCS Dup	8	6/9/17 13:19			RH	06091708.D	
1706012-01 A	F5-054-5ft-7d	9	6/9/17 13:42			RH	06091709.D	
1706012-02 A	F5-054-3ft-7d	10	6/9/17 14:06			RH	06091710.D	
1706012-03 A	F5-058-5ft-7d	11	6/9/17 14:30			RH	06091711.D	
1706012-04 A	F5-060-5ft-7d	12	6/9/17 14:54			RH	06091712.D	
1706012-05 A	F5-062-5ft-7d	13	6/9/17 15:18			RH	06091713.D	
1706012-06 A	F6-006-5ft-5d	14	6/9/17 15:41			RH	06091714.D	
1706012-07 A	F6-002-5ft-5d	15	6/9/17 16:05			RH	06091715.D	
1706012-08 A	F5-038-5ft-5d	16	6/9/17 16:29			RH	06091716.D	

Sequence Comments

Reagents

Reagent # **Description**

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Analysis Sequence

S17F037

(Continued)

Project: R17S65
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 1706007 Printed: 06/13/2017 4:15 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments

Table of Contents

SEQUENCE DATA

S17F037

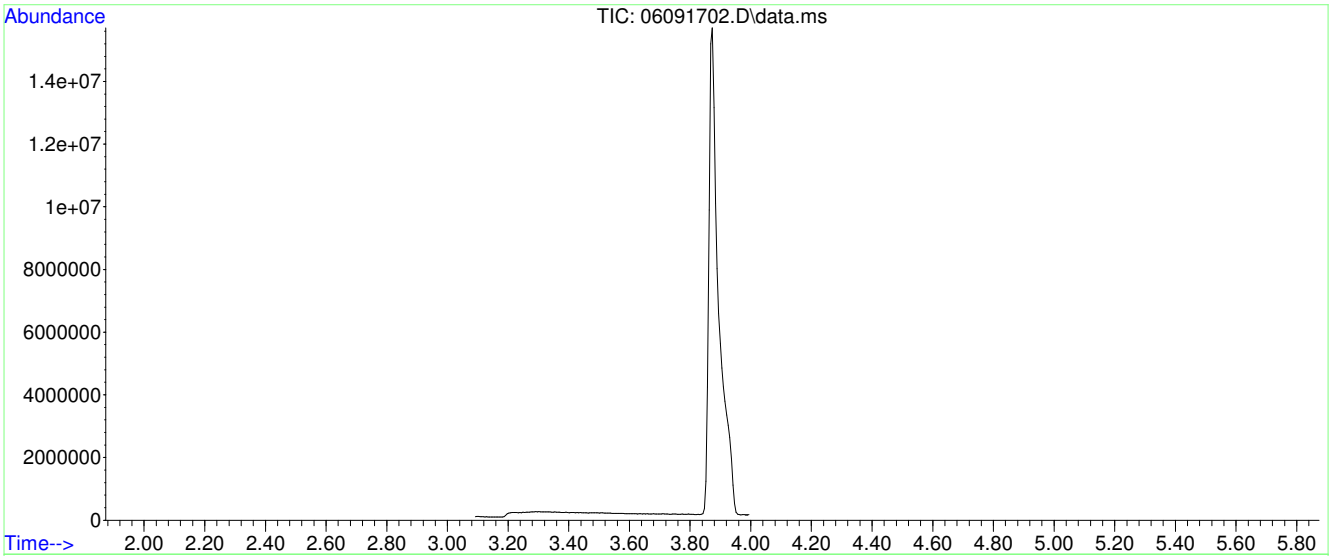
S17F037-TUN1

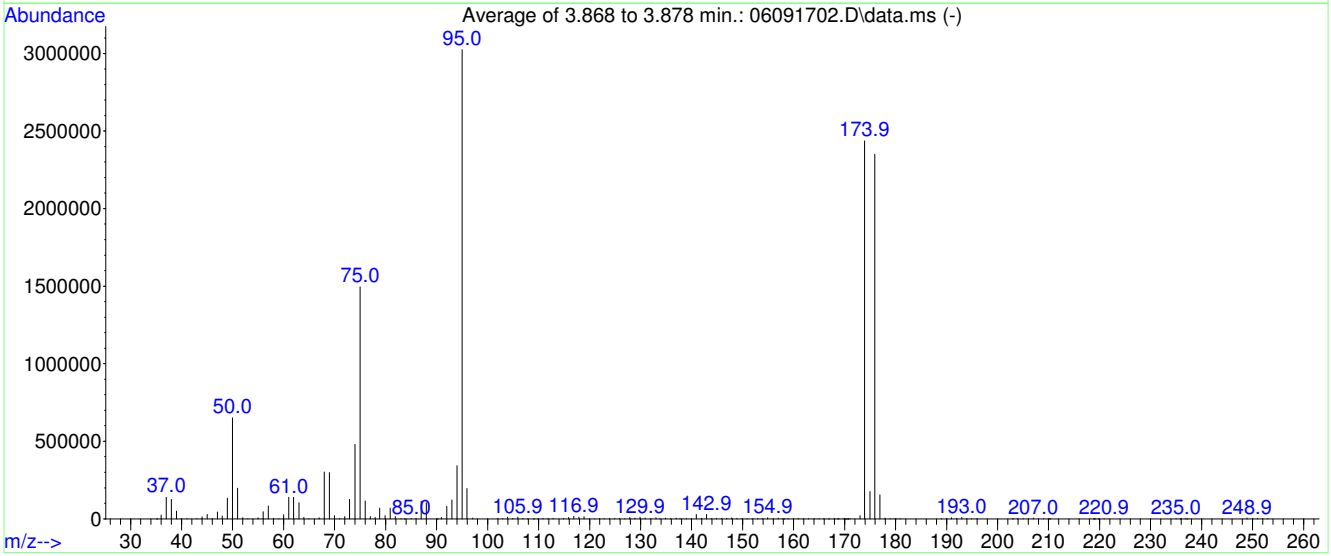
Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091702.D
Acq On : 9 Jun 2017 11:05
Operator : RH
Sample : S17F037-TUN1
Misc : BFB 1652069
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: Benzene.P

Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Tue Jun 06 15:10:51 2017





AutoFind: Scans 149, 150, 151; Background Corrected with Scan 143

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	651379	PASS
75	95	30	60	49.4	1494906	PASS
95	95	100	100	100.0	3023701	PASS
96	95	5	9	6.5	195538	PASS
173	174	0.00	2	0.9	20824	PASS
174	95	50	120	80.6	2436437	PASS
175	174	5	9	7.2	175851	PASS
176	174	95	101	96.5	2350763	PASS
177	176	5	9	6.6	154538	PASS

Average of 3.868 to 3.878 min.: 06091702.D\data.ms
S17F037-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	105	47.00	43632	59.05	1084	71.00	853
36.00	25032	47.95	18195	60.00	26949	72.00	14178
37.00	139821	49.00	133176	61.00	138952	72.95	124993
38.00	126110	50.00	651379	61.95	138043	74.00	480653
39.00	49304	51.00	197589	63.00	103352	75.00	1.49491e+006
39.95	1606	52.00	7881	63.95	9059	76.00	114829
41.05	162	53.00	236	64.95	575	77.00	14417
43.00	1128	55.00	7045	67.00	6957	77.95	9760
44.00	13627	56.00	45099	68.00	300949	78.85	68873
45.00	28781	57.00	82885	69.00	298347	79.90	20096
45.95	1825	58.05	3304	70.00	19832	80.90	69469

Average of 3.868 to 3.878 min.: 06091702.D\data.ms
S17F037-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.90	15514	94.00	342315	109.00	90	121.05	311
83.00	1564	95.00	3.0237e+006	109.90	1430	121.95	701
83.70	112	95.95	195538	110.90	2159	122.85	749
85.05	182	97.05	5256	111.85	1602	123.90	1589
86.00	2591	102.00	154	112.85	2402	124.95	2249
87.00	113376	102.95	1724	114.90	3014	125.90	1691
88.00	104075	103.90	11347	115.90	9407	126.90	791
90.10	71	104.90	3588	116.90	17395	127.90	9620
90.95	9008	105.90	11130	117.90	9871	128.90	4779
92.00	79853	106.95	2548	118.90	15324	129.90	10239
93.00	121267	107.85	150	119.95	588	130.90	4287

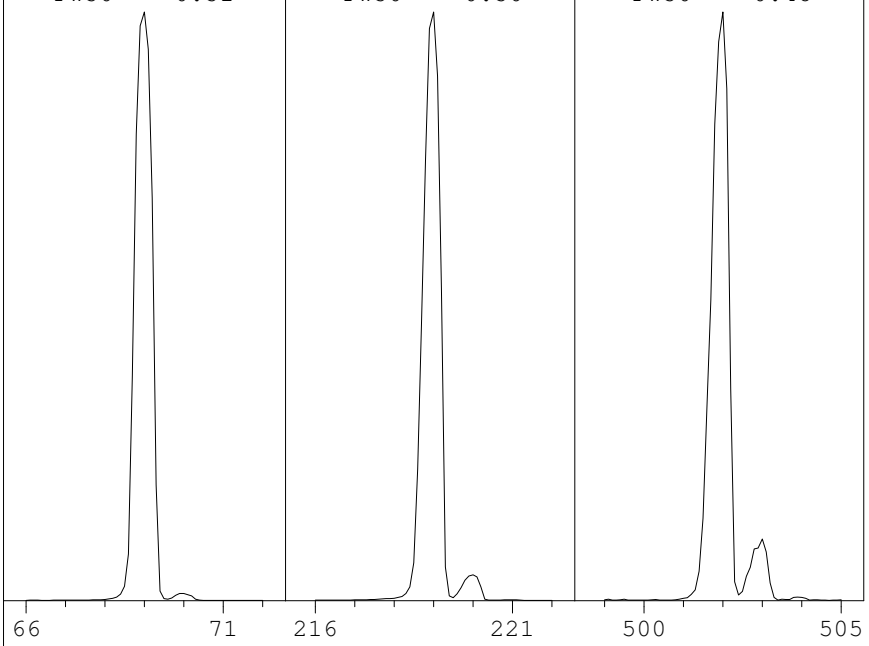
Average of 3.868 to 3.878 min.: 06091702.D\data.ms
S17F037-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
131.95	686	142.90	28213	153.85	1769	164.00	209
133.00	5903	143.90	1822	154.90	6758	165.00	926
133.80	1486	144.90	2303	155.95	773	165.95	242
134.90	5492	145.90	3570	157.00	5116	166.80	51
135.90	1103	146.90	2571	157.85	267	167.90	62
136.95	4709	147.90	6448	158.10	94	168.60	65
137.75	145	148.90	2357	158.95	3333	168.90	159
138.95	1013	149.90	2715	159.95	352	169.70	218
139.90	1589	150.90	252	160.90	3515	170.00	78
140.90	27723	151.90	1585	161.90	408	170.30	125
141.90	3238	152.95	2279	162.95	1166	170.60	123

Average of 3.868 to 3.878 min.: 06091702.D\data.ms
S17F037-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.80	239	180.85	285	203.90	259	220.90	321
171.10	296	189.00	879	205.00	1683	235.00	923
173.00	20824	190.05	267	206.10	610	235.80	92
173.90	2.43644e+006	190.95	6385	207.00	5321	235.95	136
175.00	175851	191.95	1368	208.05	1008	236.80	174
175.90	2.35076e+006	193.00	8224	209.00	534	237.10	63
176.90	154538	194.00	1847	209.90	97	248.95	5650
177.95	4950	194.90	1069	210.20	68	250.05	1528
178.95	1747	196.00	175	218.80	58	251.00	2357
179.85	135	202.90	413	219.00	107	251.95	594
180.10	137	203.05	466	219.70	59	253.00	265

Mass	69.00	Mass	219.00	Mass	502.00
Ab	646894	Ab	389192	Ab	15488
Pw50	0.51	Pw50	0.50	Pw50	0.48

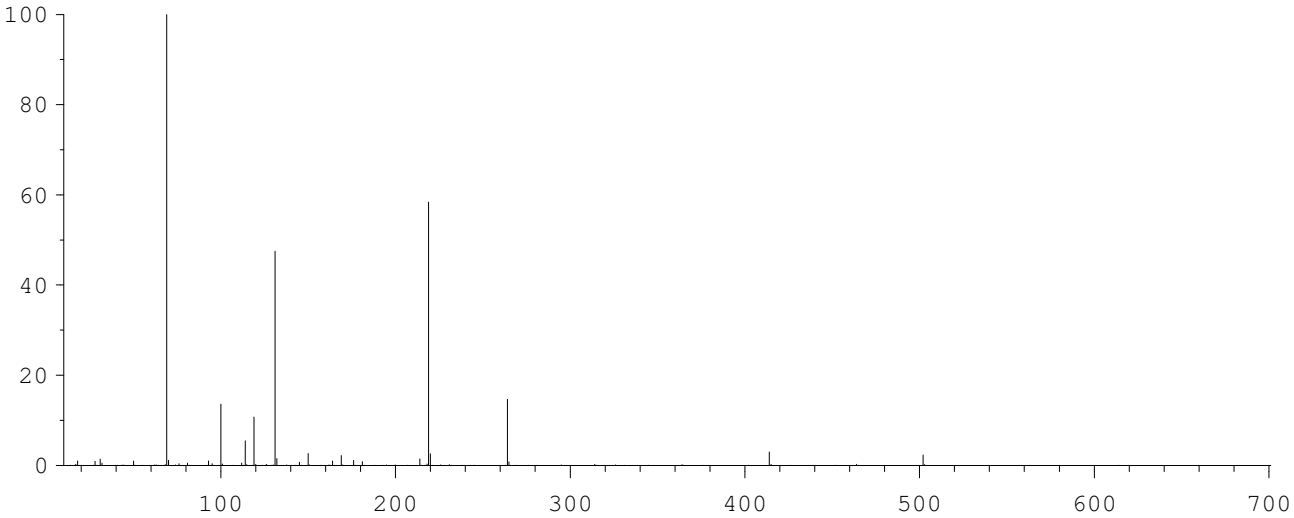


Ion Pol	Pos	MassGain	-1192
		MassOffs	-40
Emission	34.6	AmuGain	989
EIEnrgy	69.9	AmuOffs	128.31
Filament	1	Wid219	0.001
		DC Pol	Pos
Repeller	28.28		
IonFcus	79.7	HEDEnab	On
EntLens	0.0	EMVolts	2118
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	250	Turbo Speed	100
MS Quad	200	HiVac	0.00e00

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10
113 peaks Base: 69.00 Abundance: 608576



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	608576	100.00	70.00	6622	1.09
219.00	355392	58.40	220.00	15597	4.39
502.00	13908	2.29	503.00	1223	8.79

Air/Water Check: H20~1.00% N2~0.89% O2~0.50% CO2~0.09% N2/H2O~89.23%

Column(1) Flow: 0.97 Column(2): -1.79769e+308 ml/min. Interface Temp: 300

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 98145
Repeller Maximum 30 volts using ion 219; Gain Factor 0.98

MassGain Values(Samples): -1181(3) -1176(2) -1162(1) -1128(0) -1067(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	128.3	128.3	128.3	128.3	128.3	128.3	128.3
Entrance Lens Offset:	15.3	13.3	13.1	13.8	16.6	18.3	18.3
Target Abund(%):	1.0	100.0	45.0	55.0	2.5	2.0	
Actual Tune Abund(%):	1.0	100.0	47.5	58.4	3.0	2.3	

S17F037-CCV1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091703.D
Acq On : 9 Jun 2017 11:14
InstName : AG5975C
Operator : RH
Sample : S17F037-CCV1
Misc : 1717064 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 09 11:33:39 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	2-Fluorotoluene	1.000	1.000	0.0	80	0.00
2	T	1,1-Dichloroethene	0.394	0.423	-7.4	90	0.00
3	T	trans-1,2-Dichloroethene	0.427	0.438	-2.6	86	-0.02
4	T	1,1-Dichloroethane	0.461	0.490	-6.3	88	-0.02
5	T	cis-1,2-Dichloroethene	0.440	0.458	-4.1	85	-0.01
6	T	Chloroform	0.426	0.429	-0.7	84	-0.01
7	T	1,1,1-Trichloroethane	0.391	0.399	-2.0	82	-0.01
8	T	Carbon tetrachloride	0.338	0.341	-0.9	81	-0.01
9	T	Benzene	0.992	0.975	1.7	83	-0.01
10	T	1,2-Dichloroethane	0.368	0.379	-3.0	83	-0.01
11	T	Trichloroethene	0.255	0.254	0.4	80	0.00
12	S	Toluene-d8	0.819	0.826	-0.9	80	0.00
13	T	Toluene	1.084	1.049	3.2	80	-0.01
14	T	1,1,2-Trichloroethane	0.232	0.232	0.0	80	0.00
15	T	Tetrachloroethene	0.278	0.275	1.1	78	0.00
16	T	Chlorobenzene	0.689	0.699	-1.5	80	0.00
17	T	1,1,1,2-Tetrachloroethane	0.226	0.224	0.9	78	0.00
18	T	Ethylbenzene	1.167	1.190	-2.0	80	0.00
19	T	m&p-Xylene	0.915	0.940	-2.7	80	0.00
20	T	o-Xylene	0.947	0.970	-2.4	80	0.00
21	T	1,1,2,2-Tetrachloroethane	0.403	0.410	-1.7	80	0.00
22	T	1,3,5-Trimethylbenzene	0.935	0.996	-6.5	81	0.00
23	T	1,2,4-Trimethylbenzene	0.958	1.016	-6.1	81	0.00
24	T	Naphthalene	1.419	1.614	-13.7	84	0.00
25		2-Fluorotoluene SCAN	0.606	0.571	5.8	75	-0.01
26		1,1-Dichloroethene SCAN	0.255	0.298	-16.9	93	0.00
27		trans-1,2-Dichloroethene SC	0.272	0.302	-11.0	88	-0.02
28		1,1-Dichloroethane SCAN	0.310	0.328	-5.8	84	-0.03
29		cis-1,2-Dichloroethene SCAN	0.314	0.320	-1.9	81	-0.01
30		Chloroform SCAN	0.283	0.261	7.8	74	-0.01
31		1,1,1-Trichloroethane SCAN	0.233	0.260	-11.6	89	-0.01
32		Carbon tetrachloride SCAN	0.215	0.223	-3.7	83	-0.01
33		Benzene SCAN	0.642	0.648	-0.9	81	-0.01
34		1,2-Dichloroethane SCAN	0.277	0.267	3.6	77	-0.01
35		Trichloroethene SCAN	0.149	0.144	3.4	77	0.00
36		Toluene-d8 SCAN	0.500	0.494	1.2	79	0.00
37		Toluene SCAN	0.667	0.627	6.0	75	0.00
38		1,1,2-Trichloroethane SCAN	0.150	0.138	8.0	73	0.00
39		Tetrachloroethene SCAN	0.137	0.132	3.6	77	0.00
40		Chlorobenzene SCAN	0.410	0.394	3.9	77	0.00
41		1,1,1,2-Tetrachloroethane S	0.128	0.114	10.9	71	0.00
42		Ethylbenzene SCAN	0.747	0.705	5.6	75	0.00
43		m&p-Xylene SCAN	1.167	1.125	3.6	77	0.00
44		o-Xylene SCAN	0.601	0.606	-0.8	81	0.00
45		1,1,2,2-Tetrachloroethane S	0.272	0.248	8.8	73	0.00
46		1,3,5-Trimethylbenzene SCAN	0.570	0.566	0.7	79	0.00
47		1,2,4-Trimethylbenzene SCAN	0.594	0.580	2.4	78	0.00
48		Naphthalene SCAN	0.819	0.807	1.5	79	0.00

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091703.D
Acq On : 9 Jun 2017 11:14
InstName : AG5975C
Operator : RH
Sample : S17F037-CCV1
Misc : 1717064 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 09 11:33:39 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

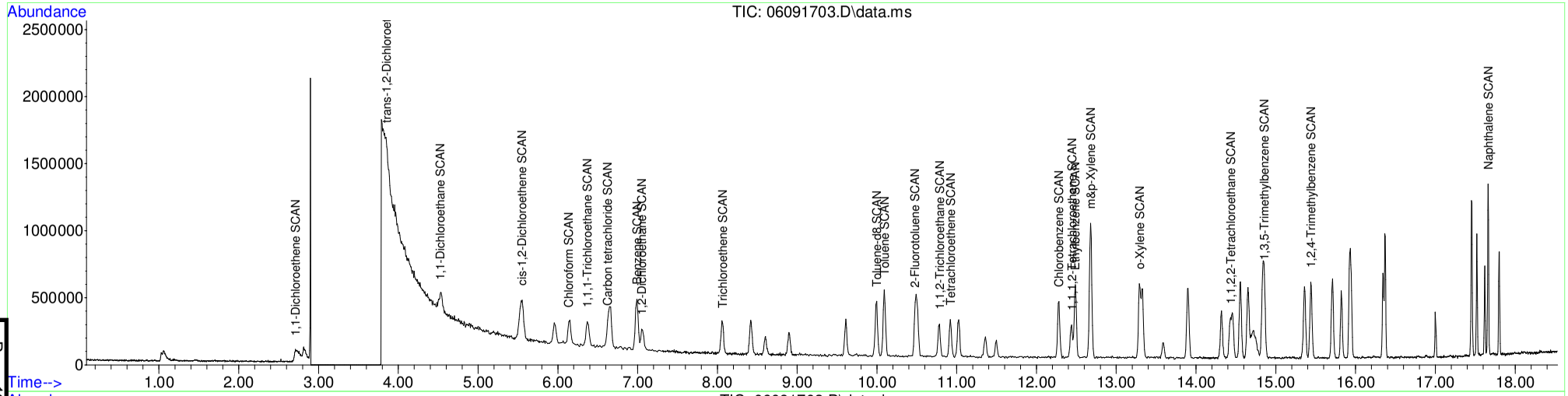
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.481	109	600919	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	496174	5041.82 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.84%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.718	61	254385	5367.63 ug/L	100
3] trans-1,2-Dichloroethene	3.849	61	263317	5126.30 ug/L	100
4] 1,1-Dichloroethane	4.533	63	294710	5322.82 ug/L	100
5] cis-1,2-Dichloroethene	5.555	61	275393	5203.53 ug/L	100
6] Chloroform	6.140	83	257994	5037.73 ug/L	99
7] 1,1,1-Trichloroethane	6.371	97	239808	5098.51 ug/L	100
8] Carbon tetrachloride	6.626	117	204934	5050.84 ug/L	100
9] Benzene	6.979	78	586001	4913.54 ug/L	100
10] 1,2-Dichloroethane	7.052	62	227828	5156.22 ug/L	100
11] Trichloroethene	8.058	130	152858	4983.67 ug/L	100
13] Toluene	10.082	91	630623	4838.92 ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	139607	5009.56 ug/L	99
15] Tetrachloroethene	10.921	166	165392	4951.42 ug/L	100
16] Chlorobenzene	12.274	112	420171	5075.71 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.433	131	134770	4960.06 ug/L	100
18] Ethylbenzene	12.481	91	715008	5097.92 ug/L	100
19] m&p-Xylene	12.671	91	1129627	10266.83 ug/L	100
20] o-Xylene	13.291	91	583046	5123.89 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	246472	5092.93 ug/L	100
22] 1,3,5-Trimethylbenzene	14.855	105	598323	5325.37 ug/L	100
23] 1,2,4-Trimethylbenzene	15.440	105	610249	5298.18 ug/L	100
24] Naphthalene	17.662	128	969818	5685.52 ug/L	100
25) 2-Fluorotoluene SCAN	10.479	109	343196	4710.53 ug/L	96
26) 1,1-Dichloroethene SCAN	2.713	61	179215	5846.27 ug/L #	73
27) trans-1,2-Dichloroethe...	3.848	61	181394	5544.73 ug/L	94
28) 1,1-Dichloroethane SCAN	4.525	63	197012	5282.01 ug/L	96
29) cis-1,2-Dichloroethene...	5.553	61	192253	5094.26 ug/L	98
30) Chloroform SCAN	6.138	83	156924	4611.22 ug/L	92
31) 1,1,1-Trichloroethane ...	6.369	97	156183	5576.83 ug/L	94
32) Carbon tetrachloride SCAN	6.625	117	133755	5188.04 ug/L	95
33) Benzene SCAN	6.990	78	389423	5048.97 ug/L	97
34) 1,2-Dichloroethane SCAN	7.051	62	160165	4812.67 ug/L	86
35) Trichloroethene SCAN	8.062	130	86681	4853.00 ug/L	95
36) Toluene-d8 SCAN	9.997	98	296639	4933.30 ug/L	98
37) Toluene SCAN	10.091	91	376955	4700.25 ug/L	95
38) 1,1,2-Trichloroethane ...	10.784	97	82740	4580.83 ug/L	92
39) Tetrachloroethene SCAN	10.920	166	79167	4815.07 ug/L	94
40) Chlorobenzene SCAN	12.281	112	236935	4809.60 ug/L	97
41) 1,1,1,2-Tetrachloroeth...	12.440	131	68636	4476.62 ug/L	96
42) Ethylbenzene SCAN	12.487	91	423442	4715.41 ug/L	98
43) m&p-Xylene SCAN	12.678	91	675750	4819.67 ug/L	98
44) o-Xylene SCAN	13.290	91	364252	5045.14 ug/L	98
45) 1,1,2,2-Tetrachloroeth...	14.431	83	149164	4567.23 ug/L	97
46) 1,3,5-Trimethylbenzene...	14.858	105	339963	4964.07 ug/L	100
47) 1,2,4-Trimethylbenzene...	15.439	105	348724	4886.31 ug/L	98
48) Naphthalene SCAN	17.661	128	485131	4928.77 ug/L	99

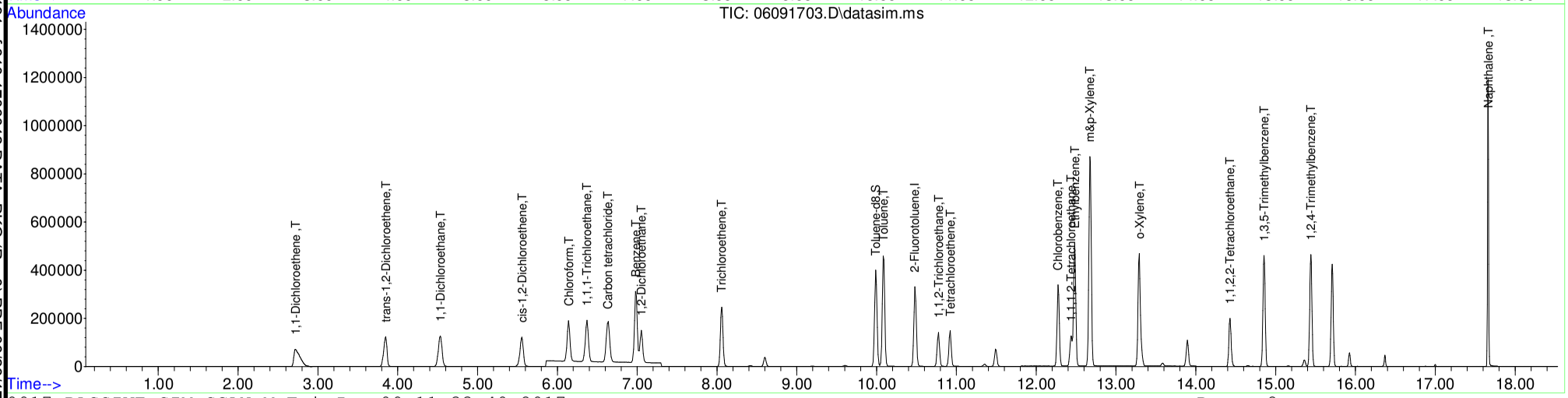
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091703.D
Acq On : 9 Jun 2017 11:14
InstName : AG5975C
Operator : RH
Sample : S17F037-CCV1
Misc : 1717064 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 09 11:33:39 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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S17F037-CRL1

QLS REPORT

Instrument Name: AG5975C
Sample Name: S17F037-CRL1
Misc Info: 1717062 0.05 mg/L
Date Acquired: 6/9/17 11:38
QLast Update: Tue Jun 06 15:10:51 2017
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.480	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	2.711	50.0	53.52	107%	60	140	pass
3)	trans-1,2-Dichloroethene	3.869	50.0	54.16	108%	60	140	pass
4)	1,1-Dichloroethane	4.553	50.0	53.24	106%	60	140	pass
5)	cis-1,2-Dichloroethene	5.568	50.0	52.20	104%	60	140	pass
6)	Chloroform	6.152	50.0	55.91	112%	60	140	pass
7)	1,1,1-Trichloroethane	6.383	50.0	50.71	101%	60	140	pass
8)	Carbon tetrachloride	6.638	50.0	50.12	100%	60	140	pass
10)	1,2-Dichloroethane	7.064	50.0	51.50	103%	60	140	pass
11)	Trichloroethene	8.063	50.0	51.26	103%	60	140	pass
12)	Toluene-d8	9.987	50.0	52.82	106%	60	140	pass
13)	Toluene	10.092	50.0	59.81	120%	60	140	pass
14)	1,1,2-Trichloroethane	10.774	50.0	51.48	103%	60	140	pass
15)	Tetrachloroethene	10.921	50.0	51.33	103%	60	140	pass
16)	Chlorobenzene	12.274	50.0	52.05	104%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.433	50.0	48.84	98%	60	140	pass
18)	Ethylbenzene	12.480	50.0	51.25	103%	60	140	pass
19)	m&p-Xylene	12.679	100.0	100.95	101%	60	140	pass
20)	o-Xylene	13.291	50.0	51.07	102%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.429	50.0	50.07	100%	60	140	pass
22)	1,3,5-Trimethylbenzene	14.853	50.0	48.76	98%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.439	50.0	47.83	96%	60	140	pass
24)	Naphthalene	17.661	50.0	50.71	101%	60	140	pass

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091704.D
Acq On : 9 Jun 2017 11:38
InstName : AG5975C
Operator : RH
Sample : S17F037-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 09 11:56:56 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

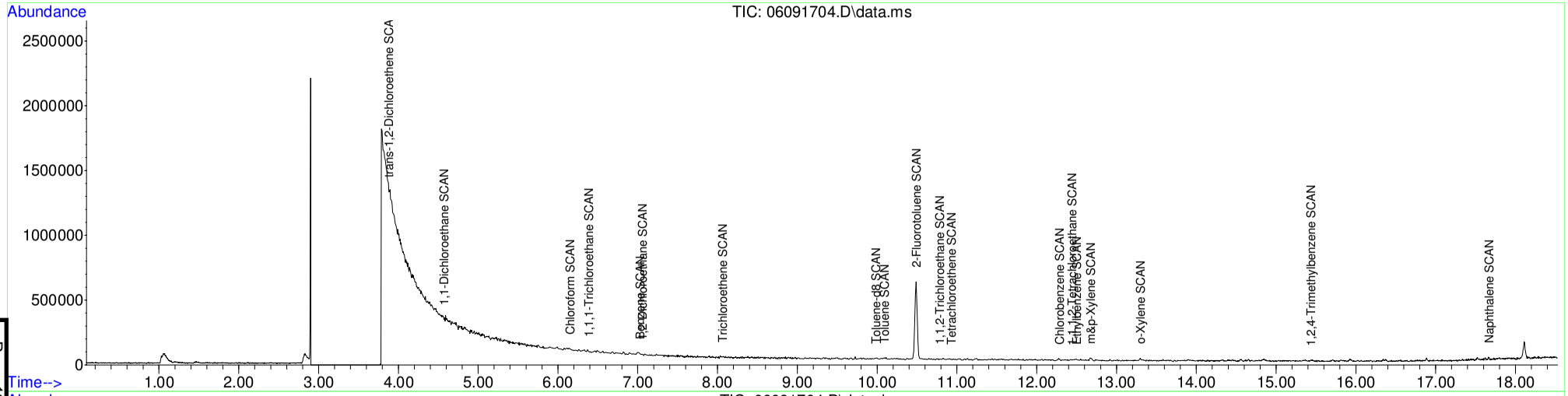
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.491	109	821821	5000.00 ug/L	0.01
System Monitoring Compounds					
12) Toluene-d8	9.998	98	7109	52.82 ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.06%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.711	61	3872	59.74 ug/L	98
3] trans-1,2-Dichloroethene	3.883	61	3805	54.16 ug/L	93
4] 1,1-Dichloroethane	4.559	63	4031	53.24 ug/L	99
5] cis-1,2-Dichloroethene	5.568	61	3778	52.20 ug/L	99
6] Chloroform	6.152	83	3916	55.91 ug/L	99
7] 1,1,1-Trichloroethane	6.383	97	3262	50.71 ug/L	99
8] Carbon tetrachloride	6.650	117	2781	50.12 ug/L	96
9] Benzene	6.991	78	13086	80.23 ug/L	95
10] 1,2-Dichloroethane	7.064	62	3112	51.50 ug/L	100
11] Trichloroethene	8.068	130	2150	51.26 ug/L	98
13] Toluene	10.092	91	10660	59.81 ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	1962	51.48 ug/L	99
15] Tetrachloroethene	10.921	166	2345	51.33 ug/L	98
16] Chlorobenzene	12.282	112	5893	52.05 ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.441	131	1815	48.84 ug/L	95
18] Ethylbenzene	12.481	91	9831	51.25 ug/L	97
19] m&p-Xylene	12.679	91	15190	100.95 ug/L	98
20] o-Xylene	13.291	91	7948	51.07 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	3314	50.07 ug/L	99
22] 1,3,5-Trimethylbenzene	14.854	105	7493	48.76 ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	7534	47.83 ug/L	100
24] Naphthalene	17.662	128	11830	50.71 ug/L	99
25) 2-Fluorotoluene SCAN	10.490	109	466899	4685.85 ug/L	96
27) trans-1,2-Dichloroethe...	3.881	61	1377	30.78 ug/L #	61
28) 1,1-Dichloroethane SCAN	4.571	63	1513	29.66 ug/L	72
30) Chloroform SCAN	6.150	83	1768	37.99 ug/L #	27
31) 1,1,1-Trichloroethane ...	6.382	97	1411	36.84 ug/L #	64
33) Benzene SCAN	7.026	78	23827	225.89 ug/L	81
34) 1,2-Dichloroethane SCAN	7.063	62	1192	26.19 ug/L #	24
35) Trichloroethene SCAN	8.066	130	1466	60.01 ug/L #	56
36) Toluene-d8 SCAN	9.986	98	5727	69.64 ug/L #	17
37) Toluene SCAN	10.091	91	7382	67.30 ug/L	89
38) 1,1,2-Trichloroethane ...	10.784	97	746	30.20 ug/L #	25
39) Tetrachloroethene SCAN	10.930	166	1007	44.78 ug/L #	72
40) Chlorobenzene SCAN	12.281	112	3018	44.80 ug/L #	8
41) 1,1,1,2-Tetrachloroeth...	12.448	131	589	28.09 ug/L #	51
42) Ethylbenzene SCAN	12.495	91	7217	58.77 ug/L	86
43) m&p-Xylene SCAN	12.678	91	11864	61.87 ug/L #	55
44) o-Xylene SCAN	13.297	91	5505	55.75 ug/L	88
47) 1,2,4-Trimethylbenzene...	15.434	105	5084	52.09 ug/L #	51
48) Naphthalene SCAN	17.669	128	6328	47.01 ug/L	91

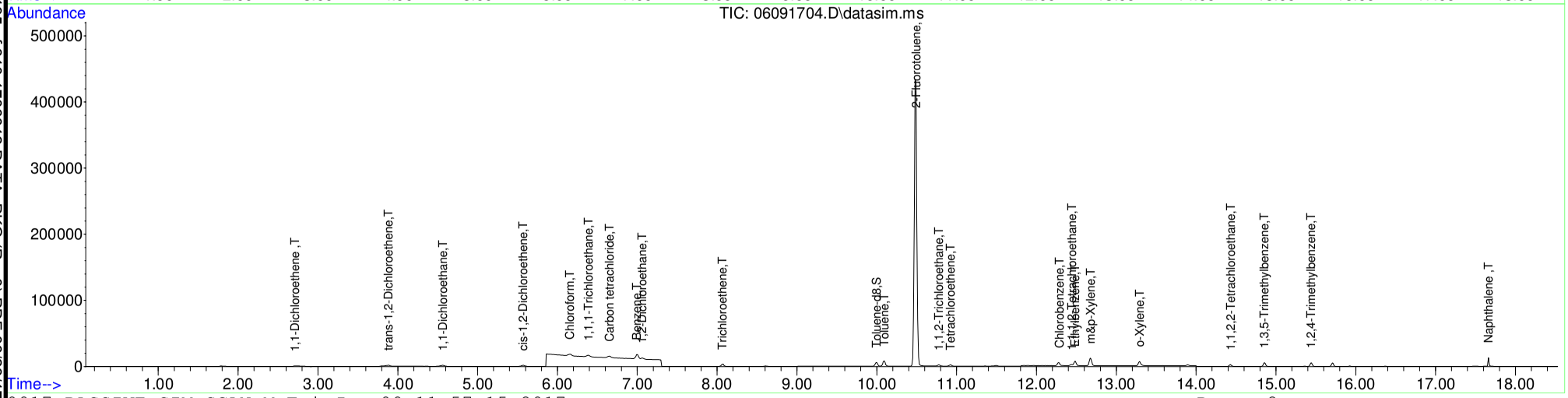
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091704.D
Acq On : 9 Jun 2017 11:38
InstName : AG5975C
Operator : RH
Sample : S17F037-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 09 11:56:56 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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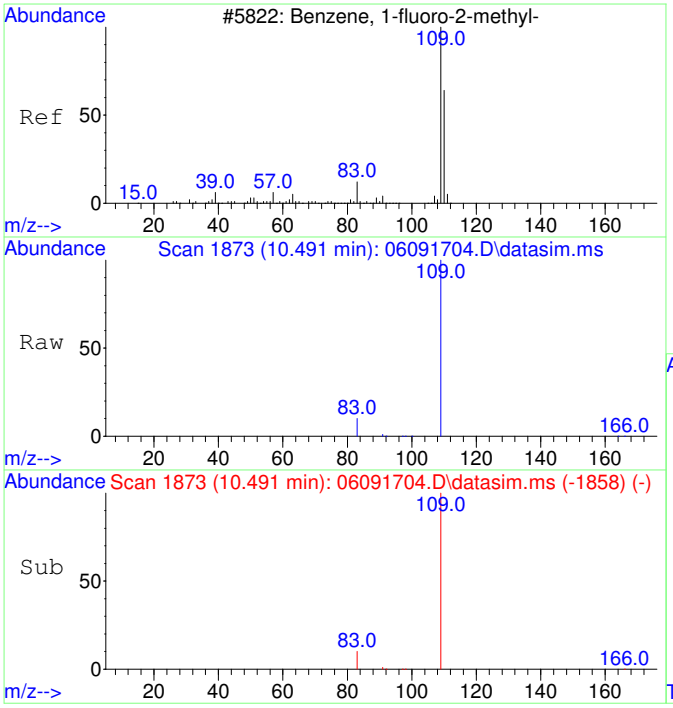
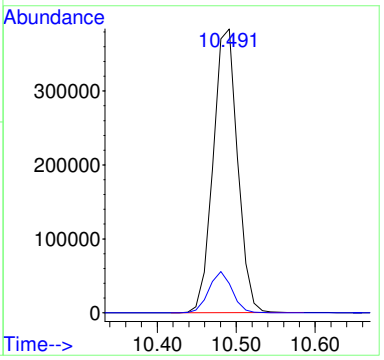
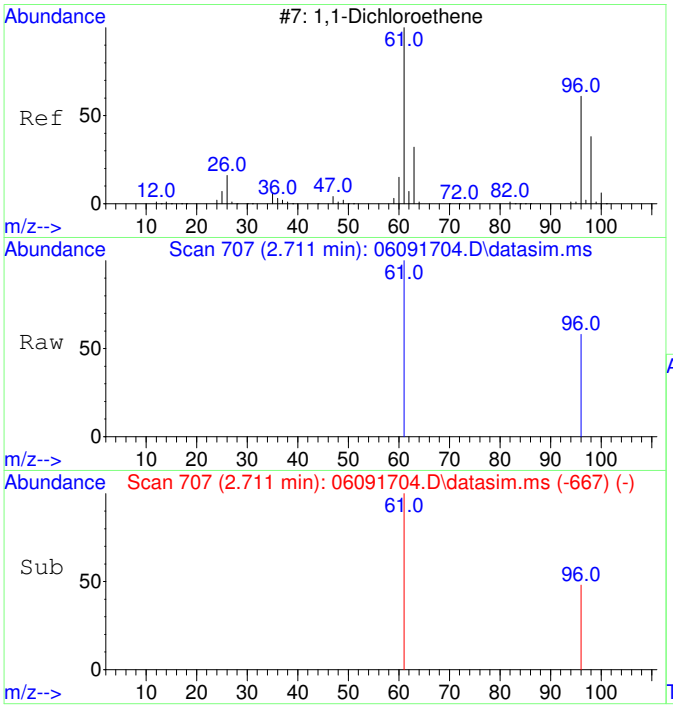


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.491 min Scan# 1873
Delta R.T. 0.011 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:109 Resp: 821821

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	44.4

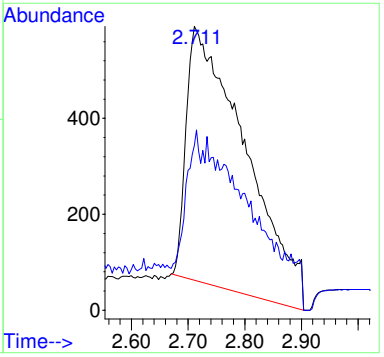




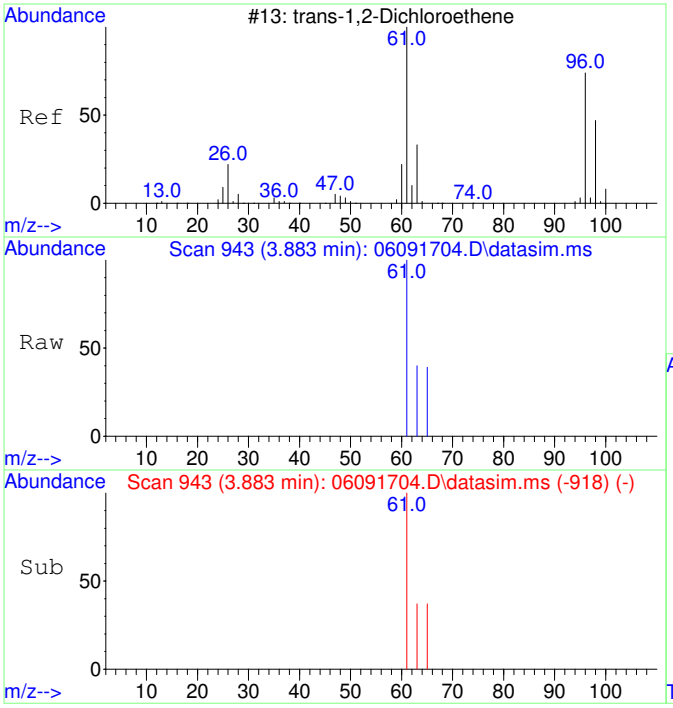
#2
1,1-Dichloroethene
Concen: 59.74 ug/L
RT: 2.711 min Scan# 707
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 61 Resp: 3872

Ion	Ratio	Lower	Upper
61	100		
96	50.4	21.8	81.8



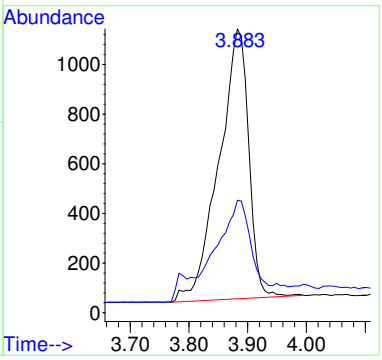
Before MI:
IMPROPER
BASELINE

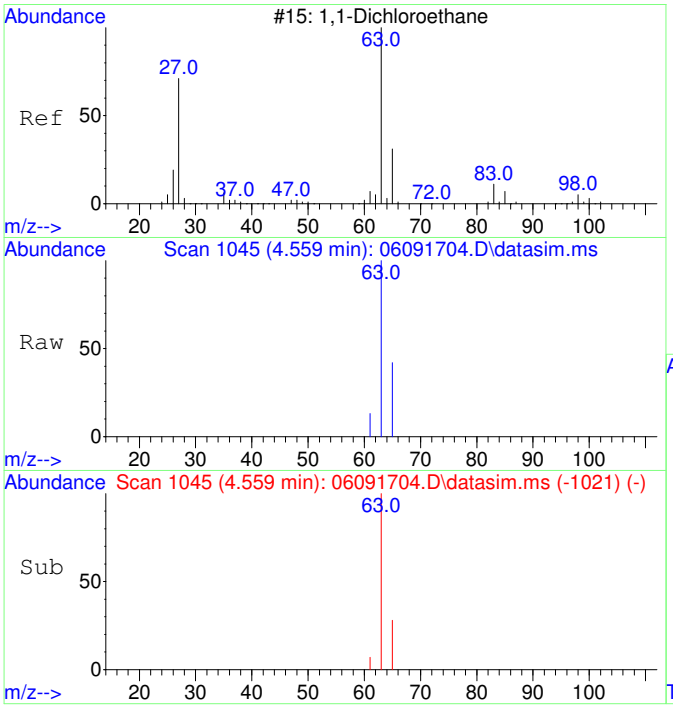


#3
trans-1,2-Dichloroethene
Concen: 54.16 ug/L
RT: 3.883 min Scan# 943
Delta R.T. 0.013 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 61 Resp: 3805

Ion	Ratio	Lower	Upper
61	100		
63	27.3	1.0	61.0

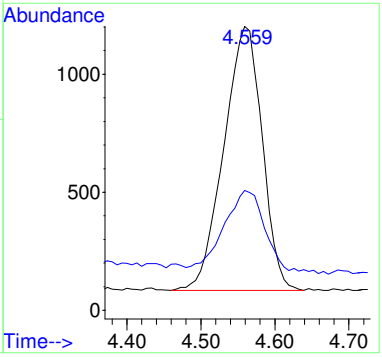


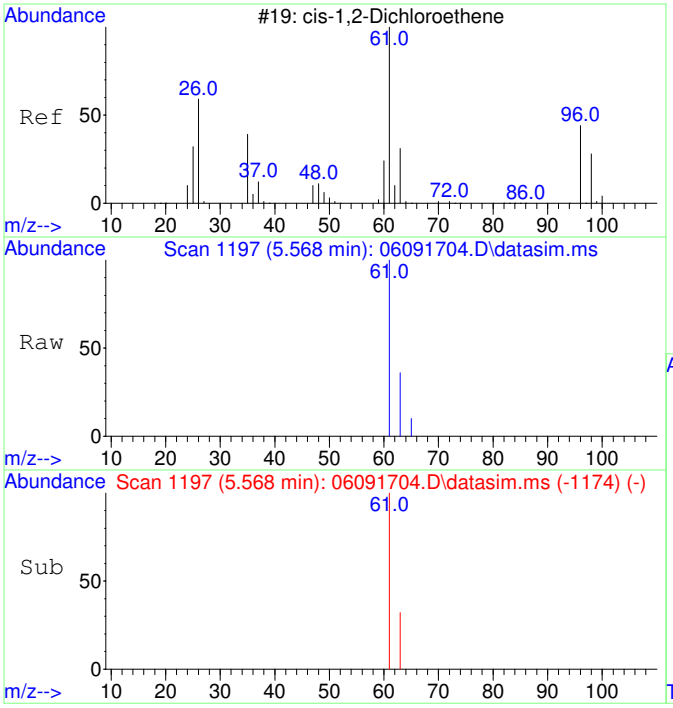


#4
1,1-Dichloroethane
Concen: 53.24 ug/L
RT: 4.559 min Scan# 1045
Delta R.T. 0.007 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 63 Resp: 4031

Ion	Ratio	Lower	Upper
63	100		
65	30.9	0.4	60.4

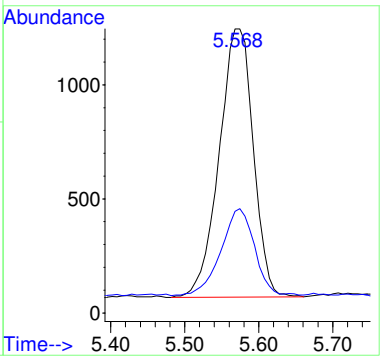


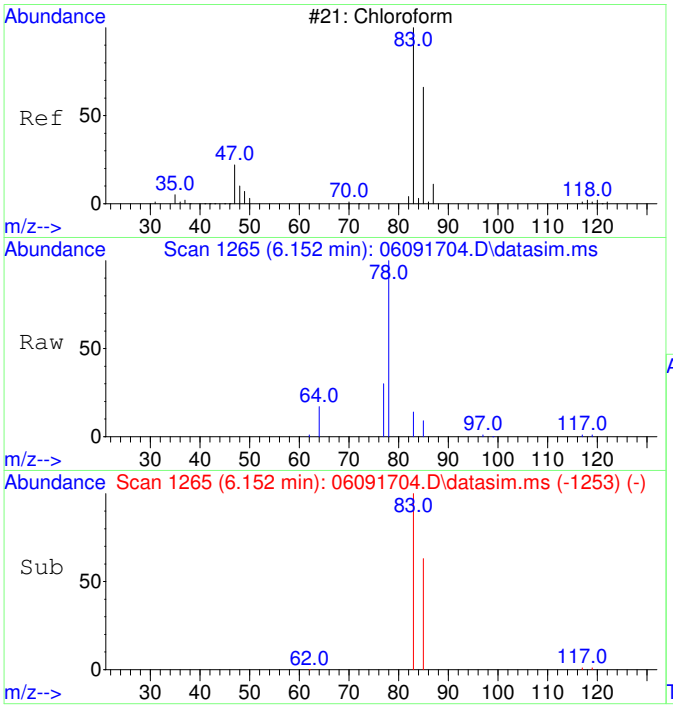


#5
cis-1,2-Dichloroethene
Concen: 52.20 ug/L
RT: 5.568 min Scan# 1197
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 61 Resp: 3778

Ion	Ratio	Lower	Upper
61	100		
63	31.6	0.9	60.9

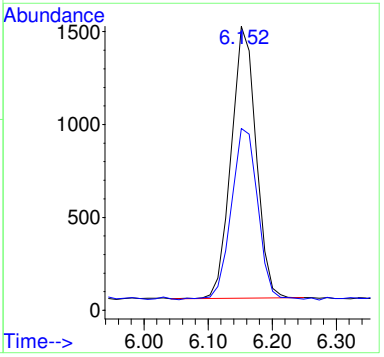


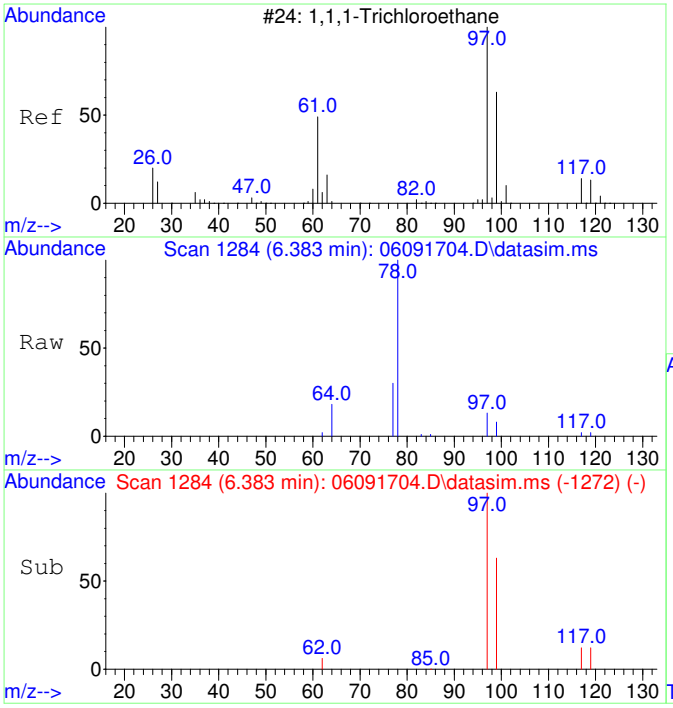


#6
Chloroform
Concen: 55.91 ug/L
RT: 6.152 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 83 Resp: 3916

Ion	Ratio	Lower	Upper
83	100		
85	64.8	33.7	93.7

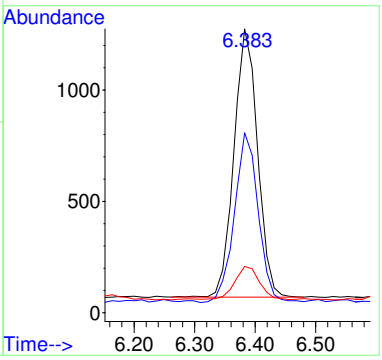


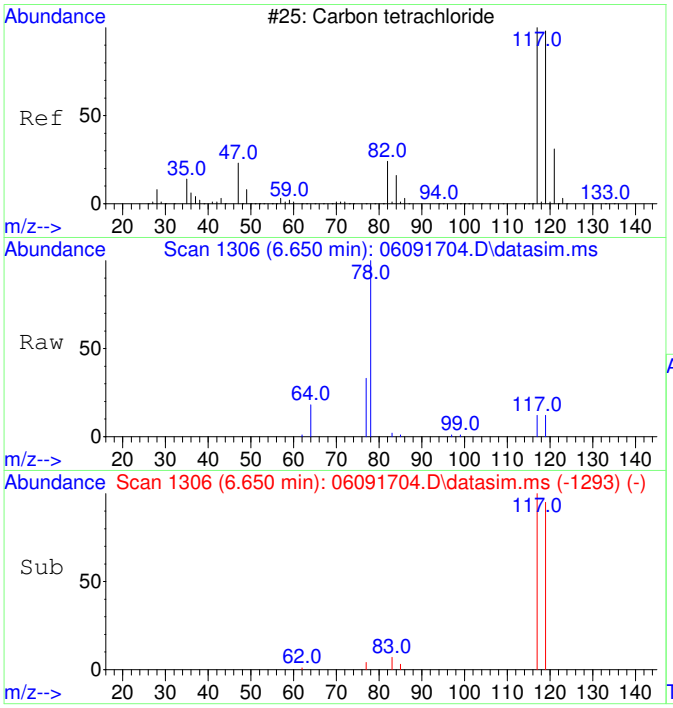


#7
1,1,1-Trichloroethane
Concen: 50.71 ug/L
RT: 6.383 min Scan# 1284
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 3262

Ion	Ratio	Lower	Upper
97	100		
99	63.4	34.3	94.3
117	12.4	0.0	42.3

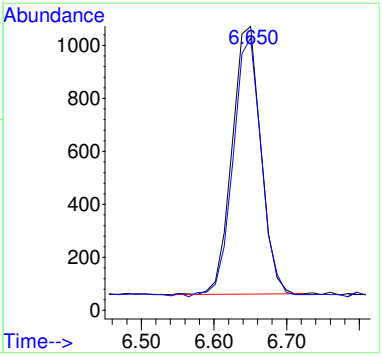


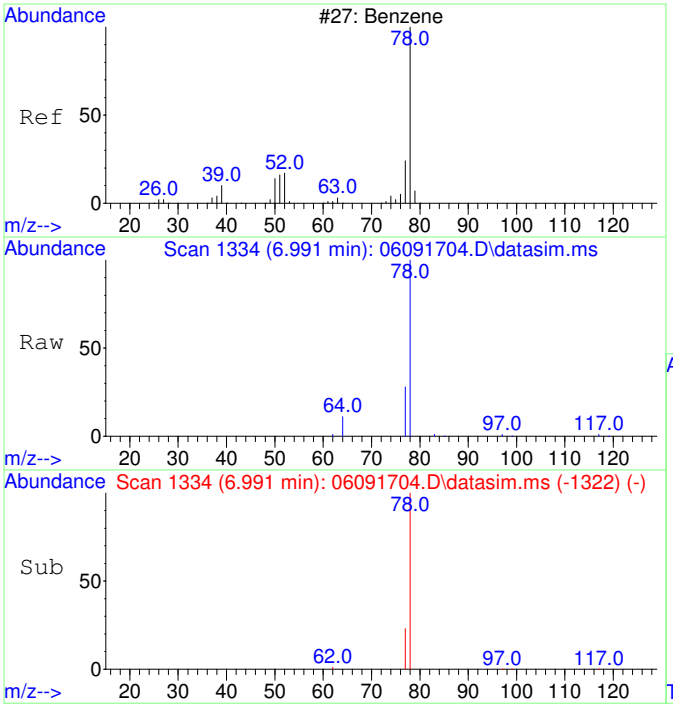


#8
Carbon tetrachloride
Concen: 50.12 ug/L
RT: 6.650 min Scan# 1306
Delta R.T. 0.012 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:117 Resp: 2781

Ion	Ratio	Lower	Upper
117	100		
119	92.0	65.5	125.5

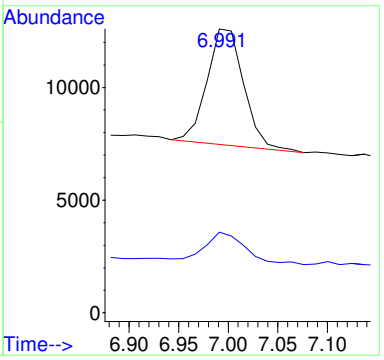


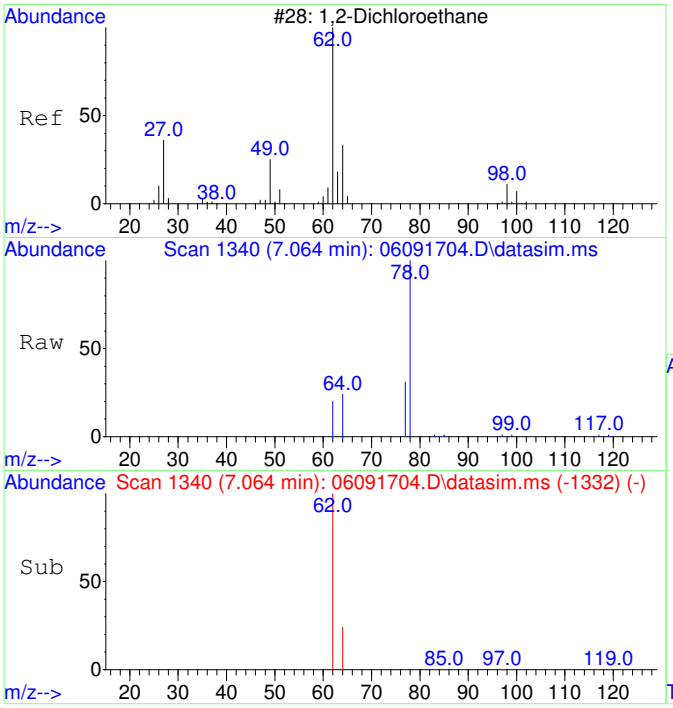


#9
Benzene
Concen: 80.23 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 78 Resp: 13086

Ion	Ratio	Lower	Upper
78	100		
77	25.3	0.0	53.0

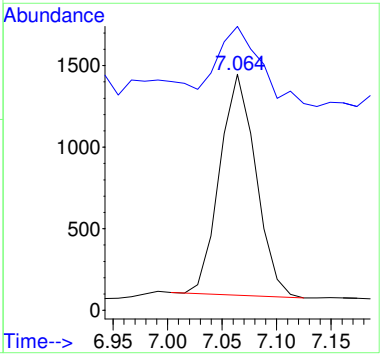


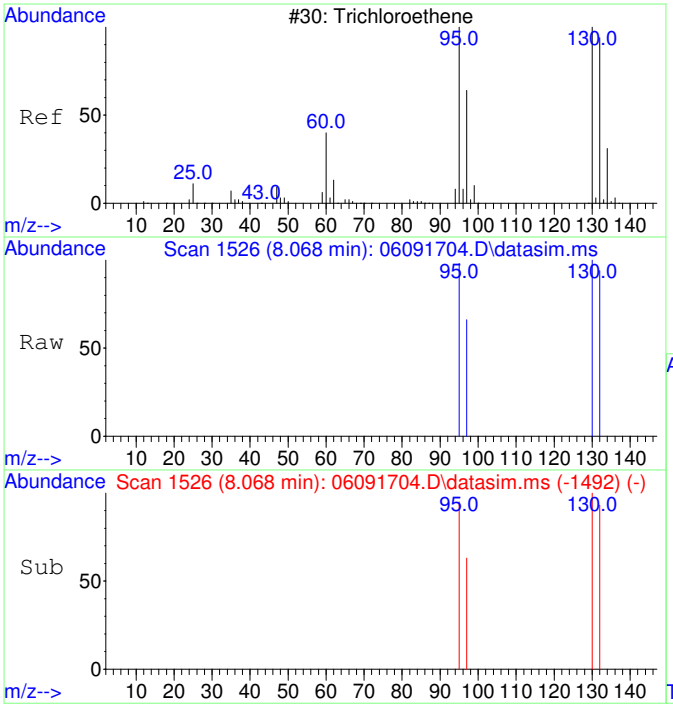


#10
1,2-Dichloroethane
Concen: 51.50 ug/L
RT: 7.064 min Scan# 1340
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 62 Resp: 3112

Ion	Ratio	Lower	Upper
62	100		
64	32.7	2.6	62.6

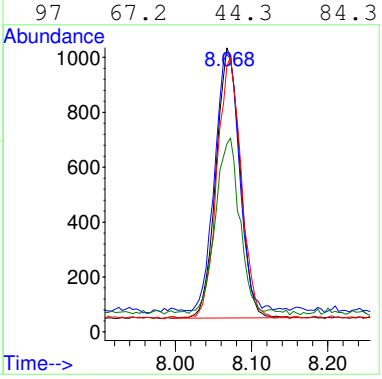


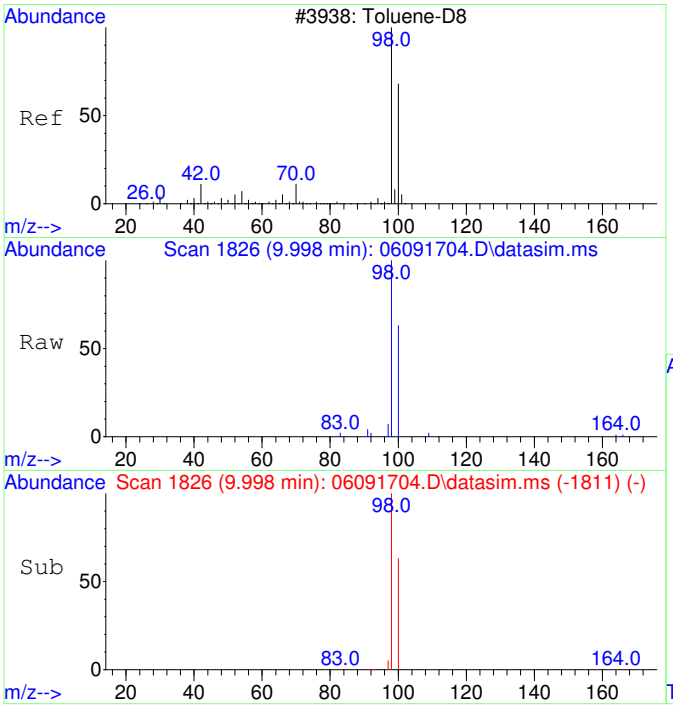


#11
Trichloroethene
Concen: 51.26 ug/L
RT: 8.068 min Scan# 1526
Delta R.T. 0.005 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:130 Resp: 2150

Ion	Ratio	Lower	Upper
130	100		
95	98.1	69.8	129.8
132	96.3	76.4	116.4
97	67.2	44.3	84.3

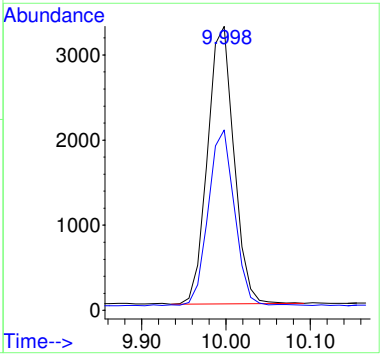


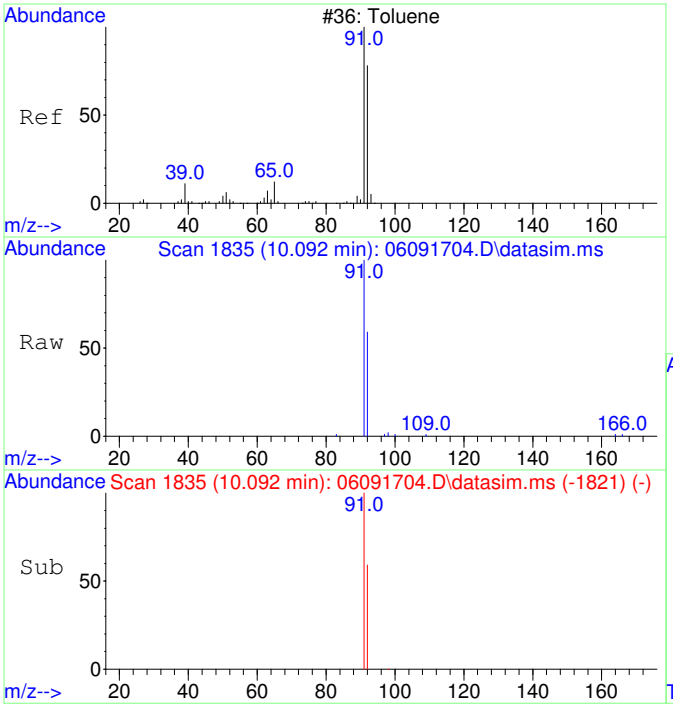


#12
Toluene-d8
Concen: 52.82 ug/L
RT: 9.998 min Scan# 1826
Delta R.T. 0.011 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 98 Resp: 7109

Ion	Ratio	Lower	Upper
98	100		
100	61.9	34.2	94.2

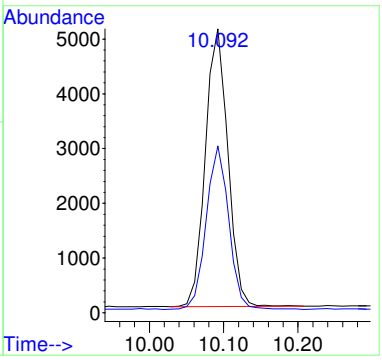


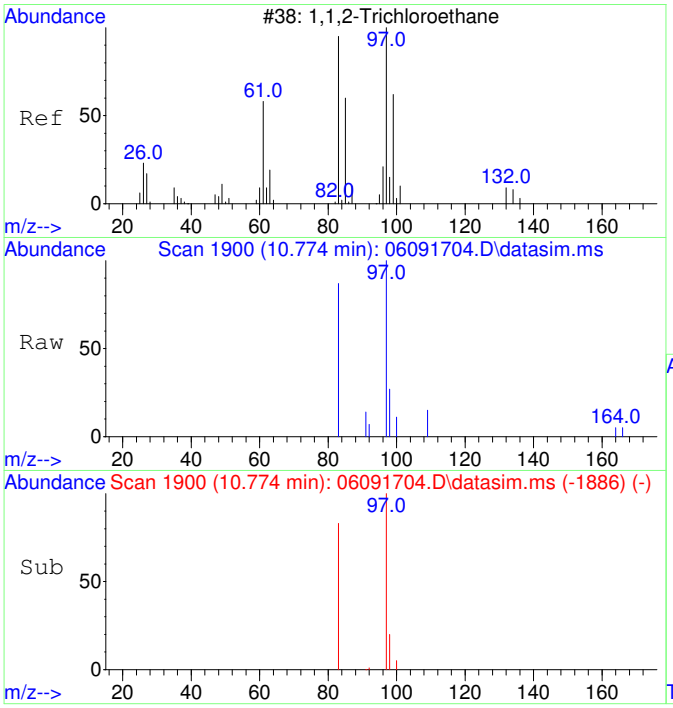


#13
Toluene
Concen: 59.81 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 10660

Ion	Ratio	Lower	Upper
91	100		
92	58.3	28.4	88.4

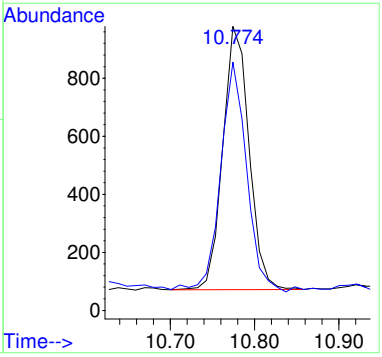


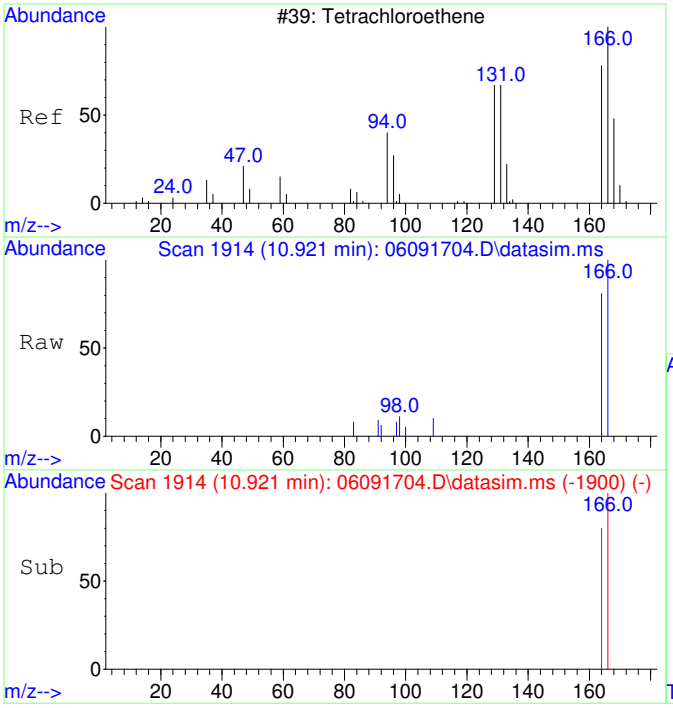


#14
1,1,2-Trichloroethane
Concen: 51.48 ug/L
RT: 10.774 min Scan# 1900
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 1962

Ion	Ratio	Lower	Upper
97	100		
83	83.3	54.5	114.5

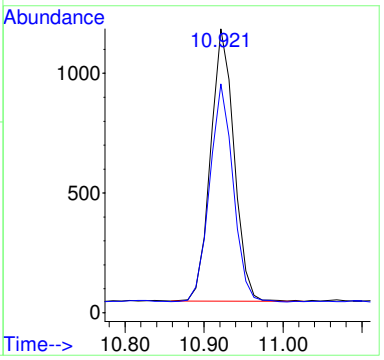


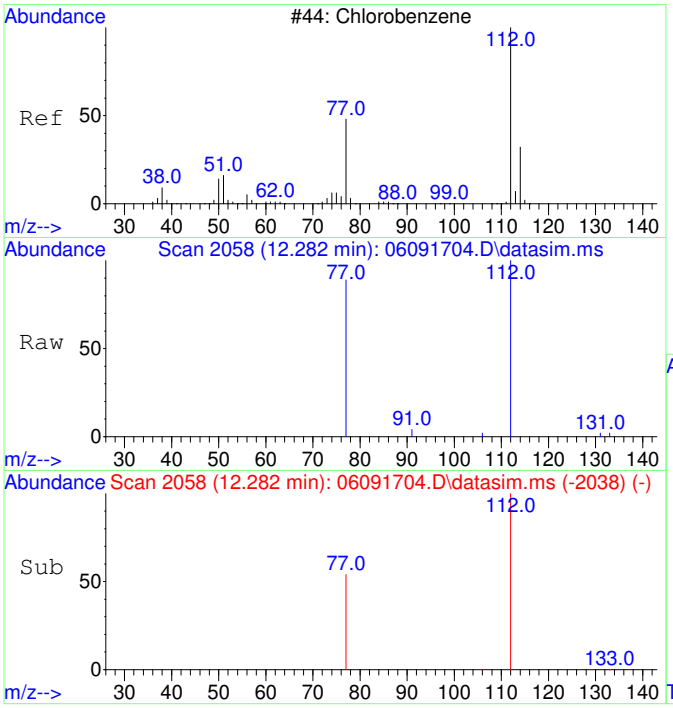


#15
Tetrachloroethene
Concen: 51.33 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:166 Resp: 2345

Ion	Ratio	Lower	Upper
166	100		
164	79.6	48.1	108.1

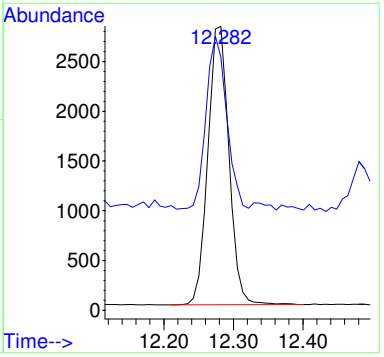


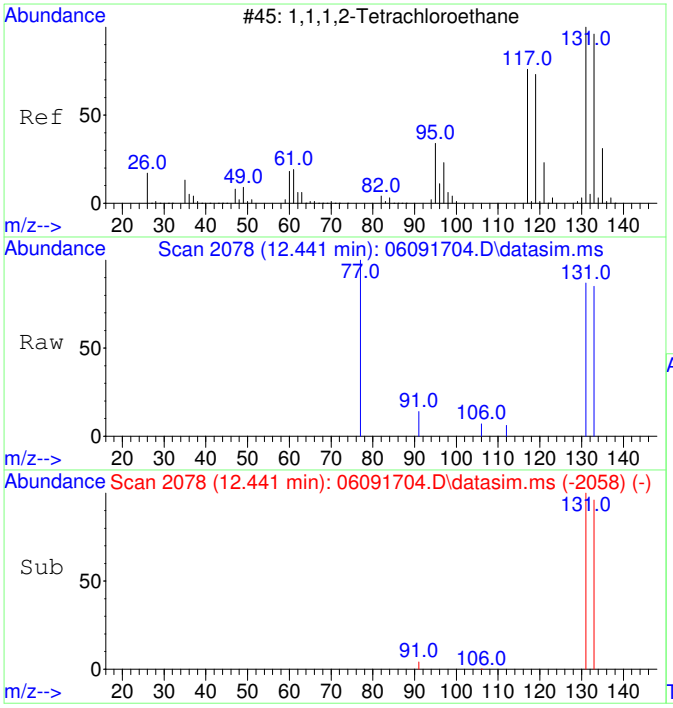


#16
Chlorobenzene
Concen: 52.05 ug/L
RT: 12.282 min Scan# 2058
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:112 Resp: 5893

Ion	Ratio	Lower	Upper
112	100		
77	59.5	28.9	88.9

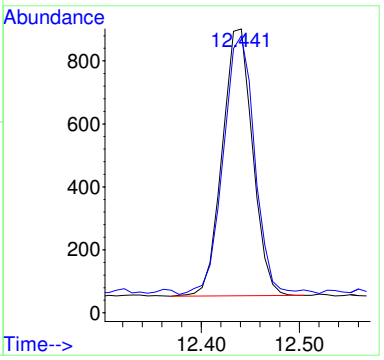


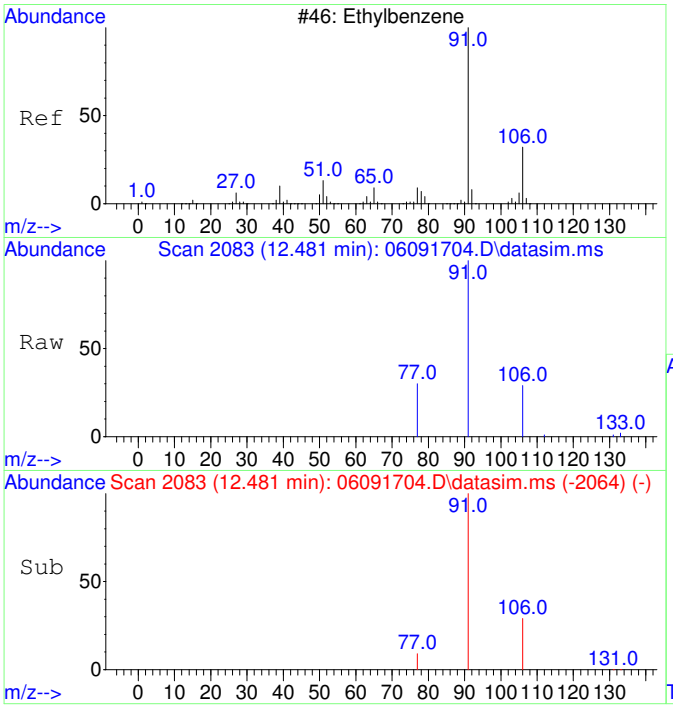


#17
1,1,1,2-Tetrachloroethane
Concen: 48.84 ug/L
RT: 12.441 min Scan# 2078
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:131 Resp: 1815

Ion	Ratio	Lower	Upper
131	100		
133	99.9	65.2	125.2

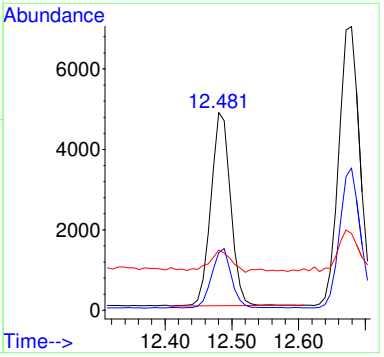


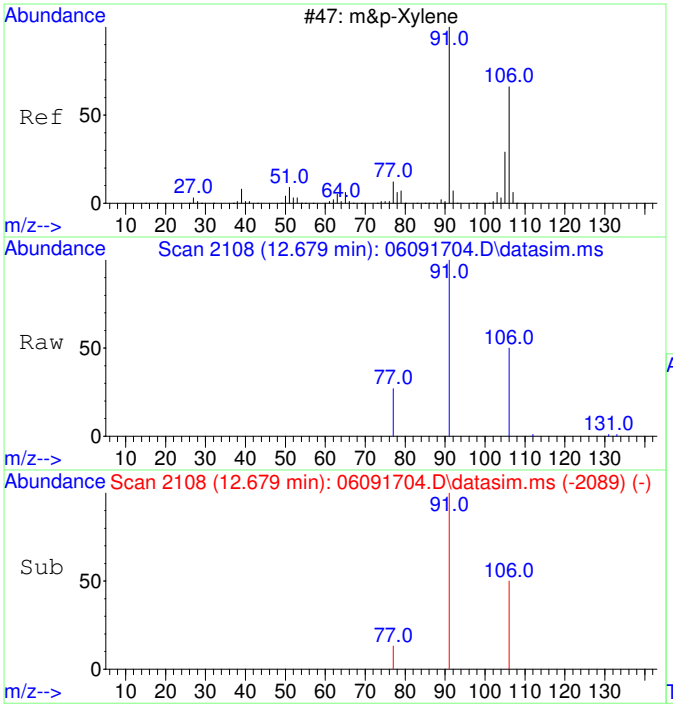


#18
Ethylbenzene
Concen: 51.25 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 9831

Ion	Ratio	Lower	Upper
91	100		
106	30.1	1.2	61.2
77	11.4	0.0	38.6

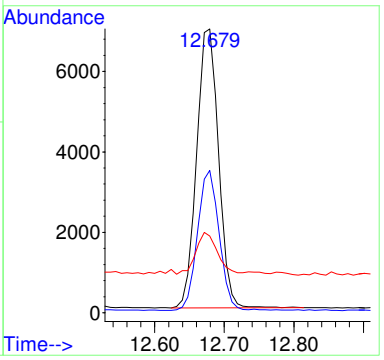


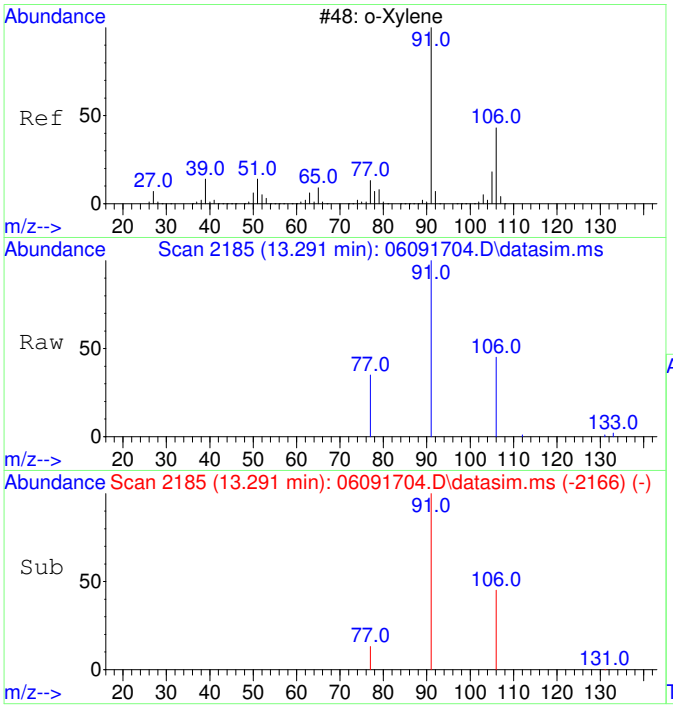


#19
m&p-Xylene
Concen: 100.95 ug/L
RT: 12.679 min Scan# 2108
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 15190

Ion	Ratio	Lower	Upper
91	100		
106	49.4	18.4	78.4
77	14.9	0.0	43.1

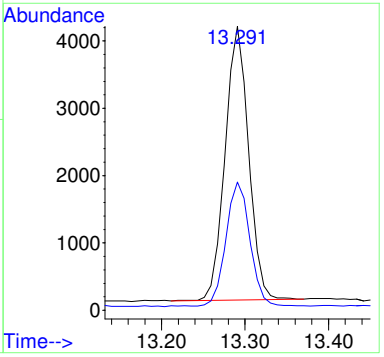


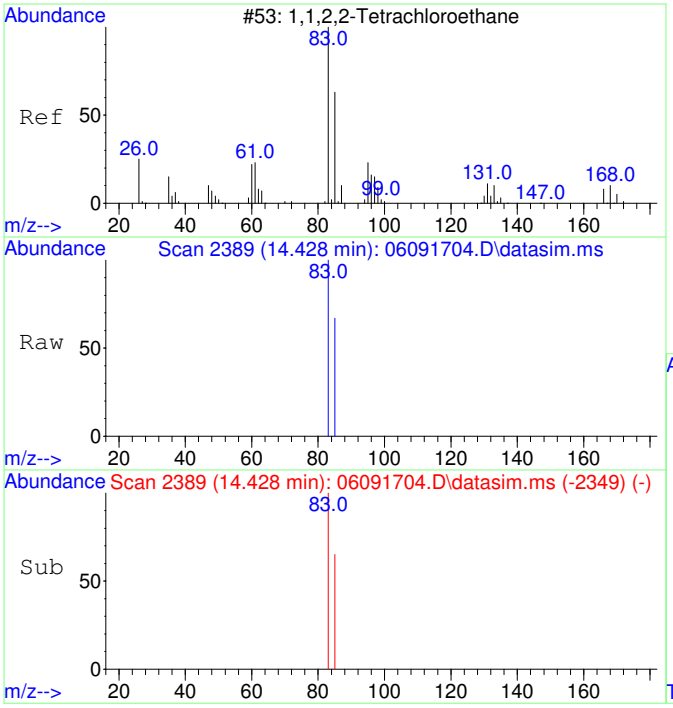


#20
o-Xylene
Concen: 51.07 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 7948

Ion	Ratio	Lower	Upper
91	100		
106	46.1	16.0	76.0

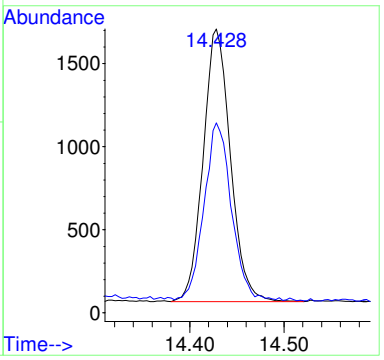


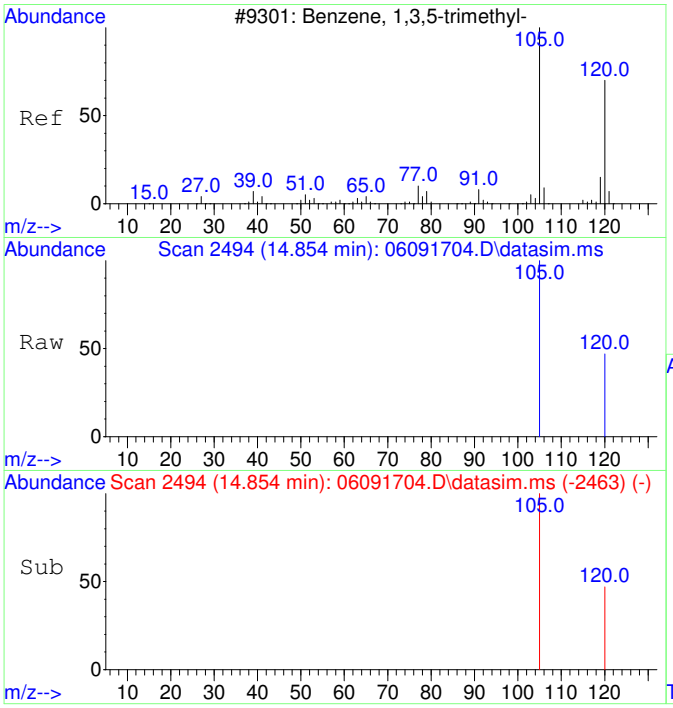


#21
1,1,2,2-Tetrachloroethane
Concen: 50.07 ug/L
RT: 14.428 min Scan# 2389
Delta R.T. -0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 83 Resp: 3314

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.1	94.1

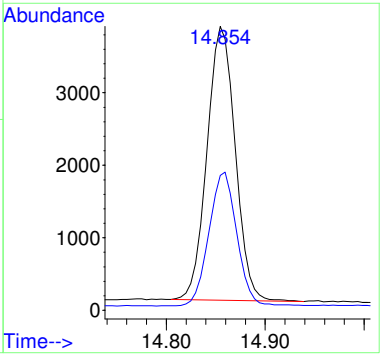


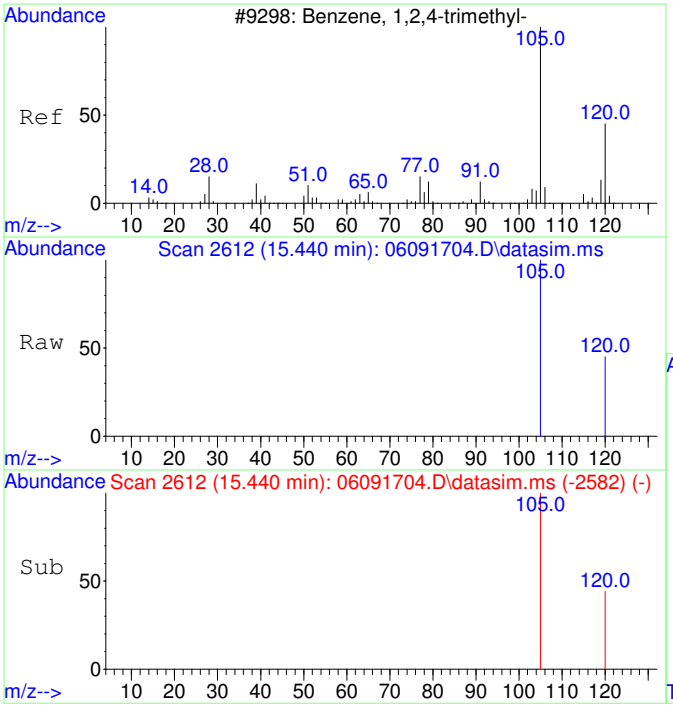


#22
1,3,5-Trimethylbenzene
Concen: 48.76 ug/L
RT: 14.854 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:105 Resp: 7493

Ion	Ratio	Lower	Upper
105	100		
120	48.4	18.0	78.0

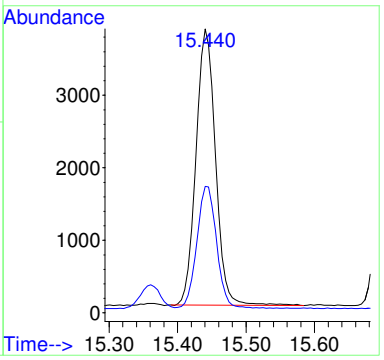


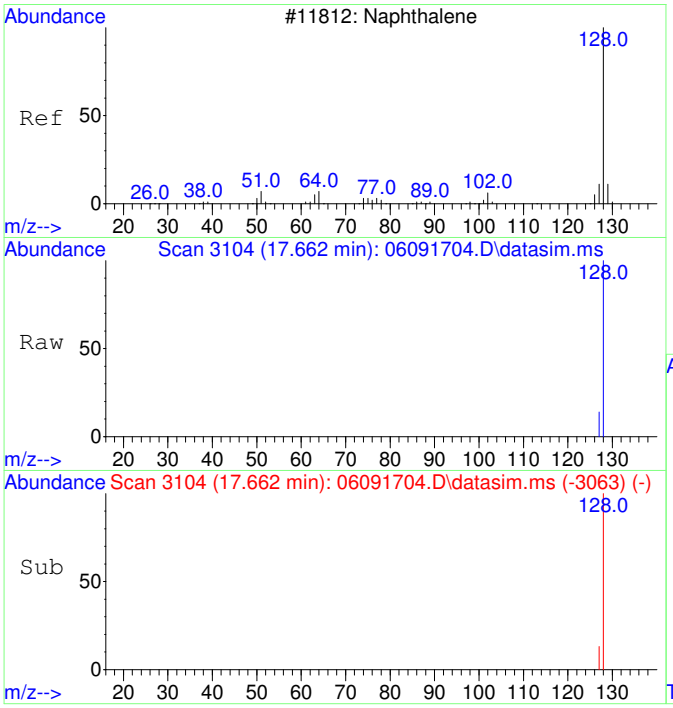


#23
1,2,4-Trimethylbenzene
Concen: 47.83 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:105 Resp: 7534

Ion	Ratio	Lower	Upper
105	100		
120	44.1	14.4	74.4

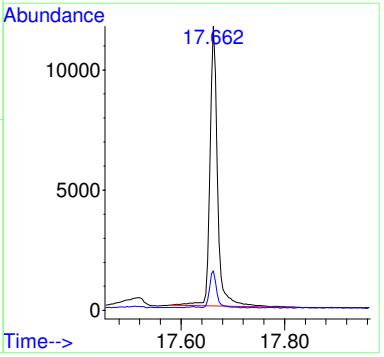


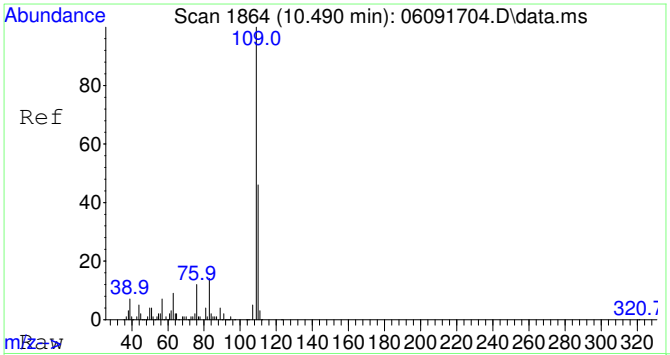


#24
Naphthalene
Concen: 50.71 ug/L
RT: 17.662 min Scan# 3104
Delta R.T. 0.001 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:128 Resp: 11830

Ion	Ratio	Lower	Upper
128	100		
127	12.5	0.0	42.7

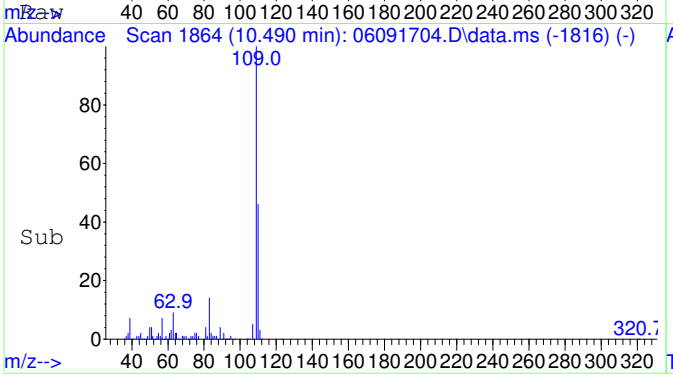


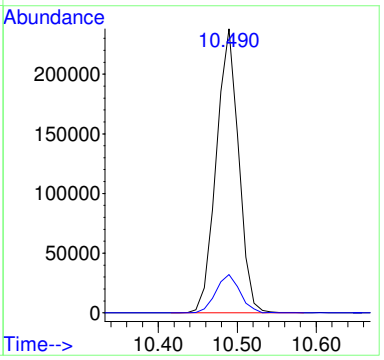


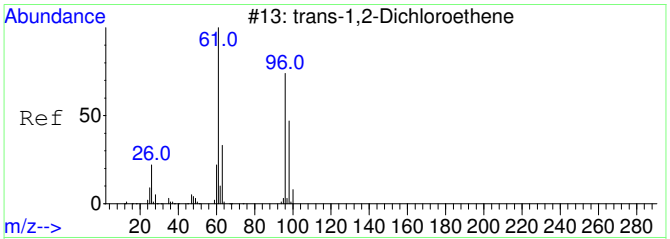
#25
2-Fluorotoluene SCAN
Concen: 4685.85 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:109 Resp: 466899

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	46.1



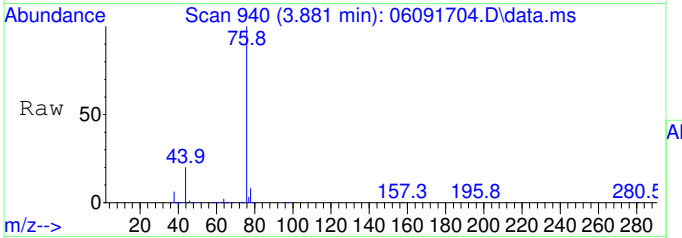


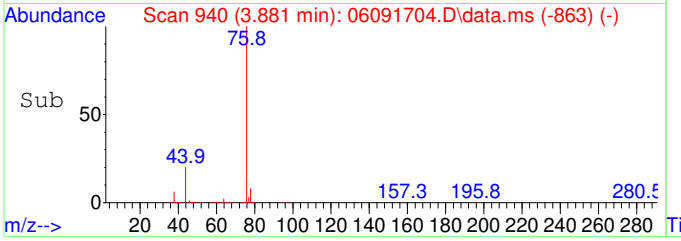


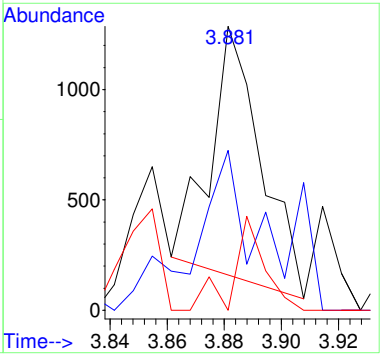
#27
trans-1,2-Dichloroethene SCAN
Concen: 30.78 ug/L
RT: 3.881 min Scan# 940
Delta R.T. 0.013 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

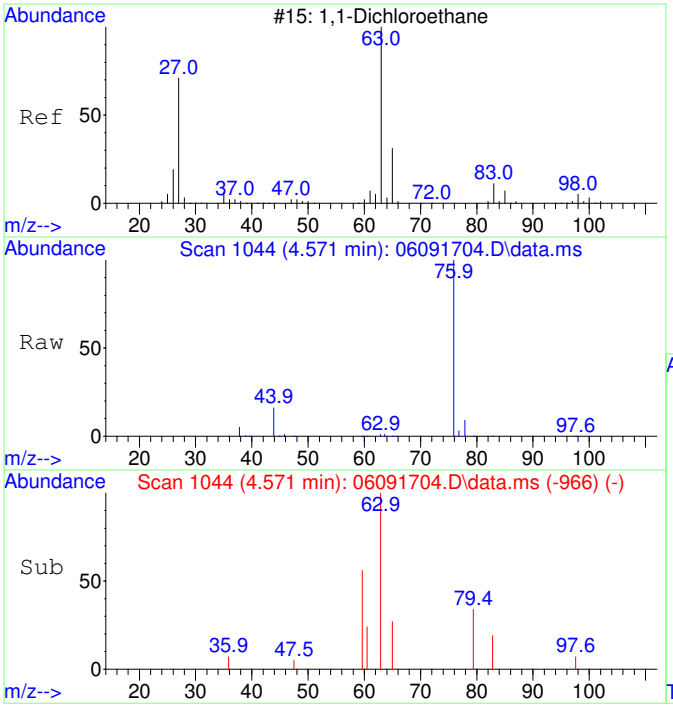
Tgt Ion: 61 Resp: 1377

Ion	Ratio	Lower	Upper
61	100		
96	93.8	26.1	86.1#
98	23.5	4.4	64.4





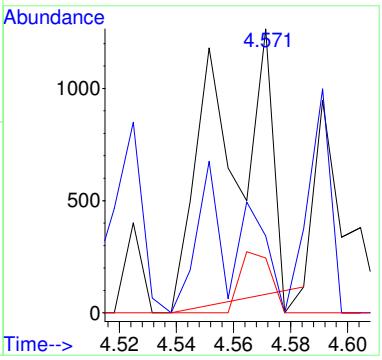


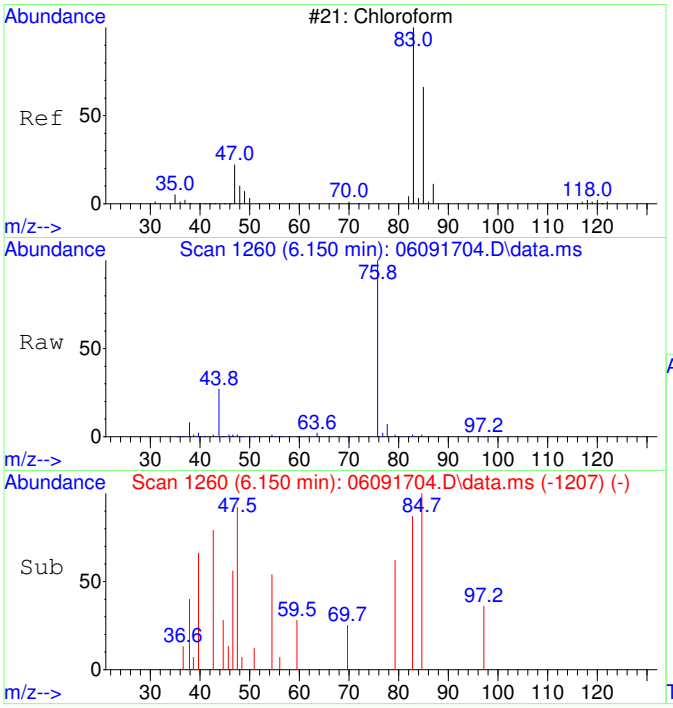


#28
1,1-Dichloroethane SCAN
Concen: 29.66 ug/L
RT: 4.571 min Scan# 1044
Delta R.T. 0.020 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 63 Resp: 1513

Ion	Ratio	Lower	Upper
63	100		
65	46.5	1.1	61.1
83	13.5	0.0	31.5

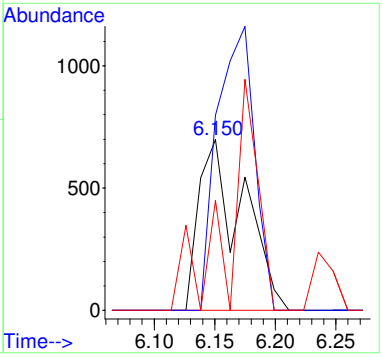


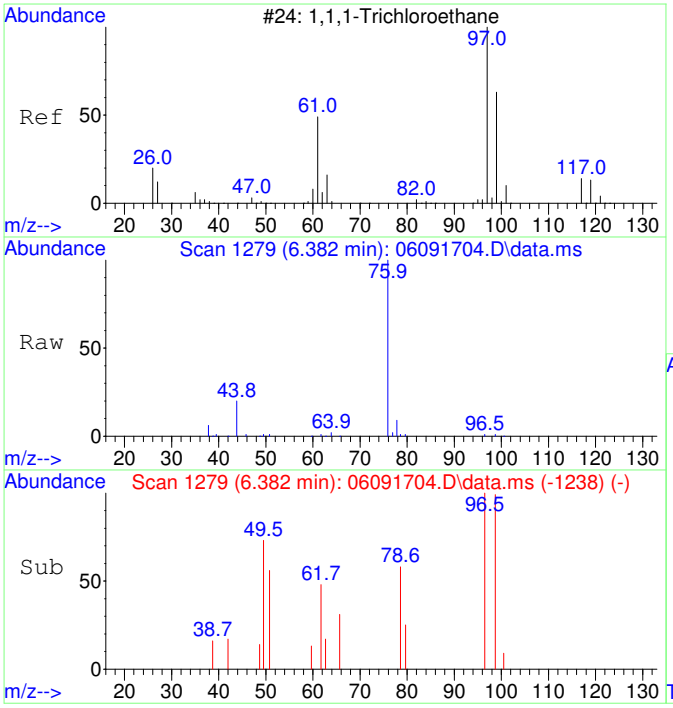


#30
Chloroform SCAN
Concen: 37.99 ug/L
RT: 6.150 min Scan# 1260
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 83 Resp: 1768

Ion	Ratio	Lower	Upper
83	100		
85	0.0	31.2	91.2#
47	0.0	3.2	63.2#

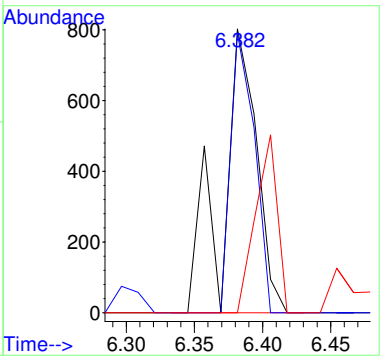


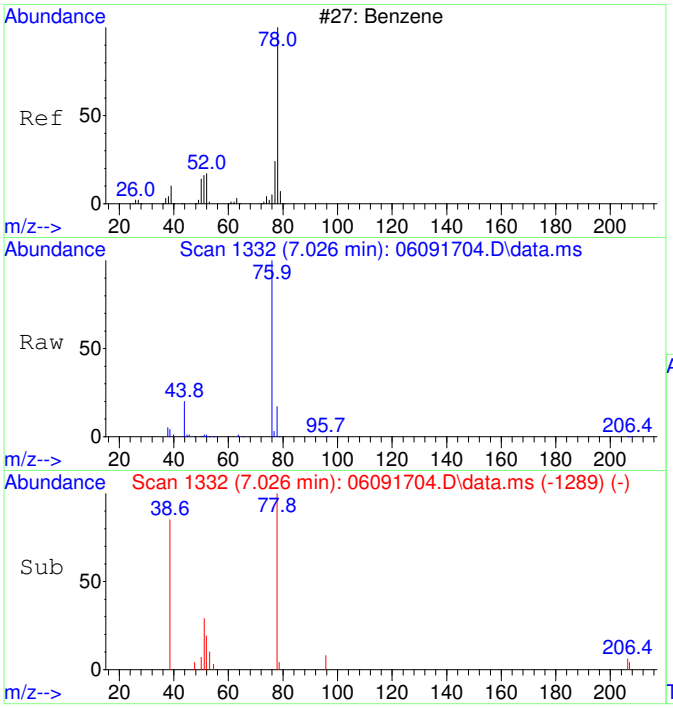


#31
1,1,1-Trichloroethane SCAN
Concen: 36.84 ug/L
RT: 6.382 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 1411

Ion	Ratio	Lower	Upper
97	100		
99	68.1	38.7	98.7
61	0.0	27.8	87.8#

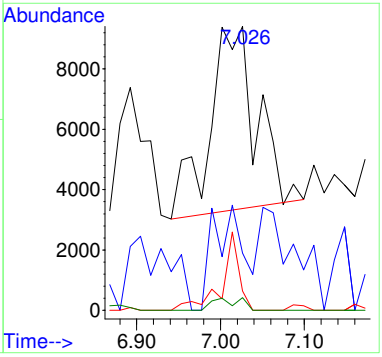


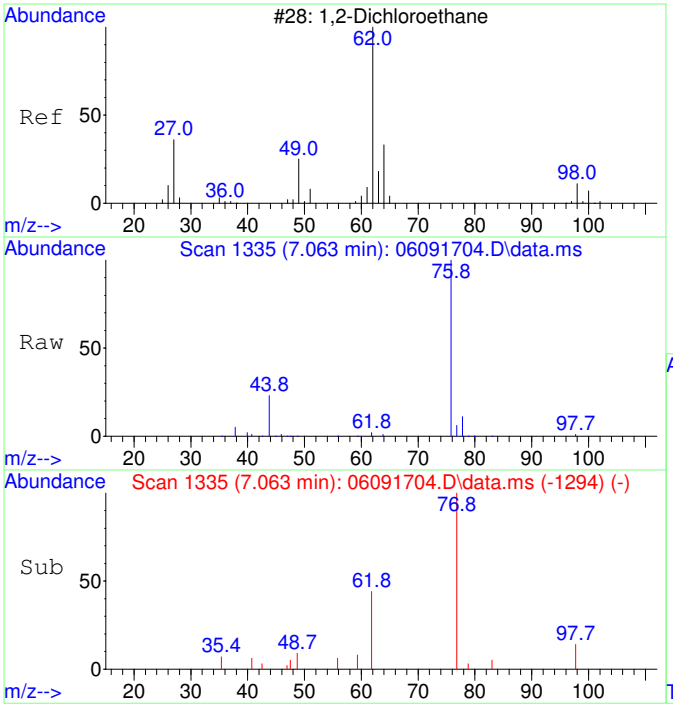


#33
Benzene SCAN
Concen: 225.89 ug/L
RT: 7.026 min Scan# 1332
Delta R.T. 0.024 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 78 Resp: 23827

Ion	Ratio	Lower	Upper
78	100		
77	26.8	0.0	55.2
51	15.4	0.0	52.4
52	4.0	0.0	53.3

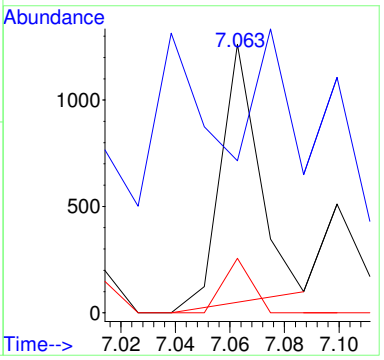


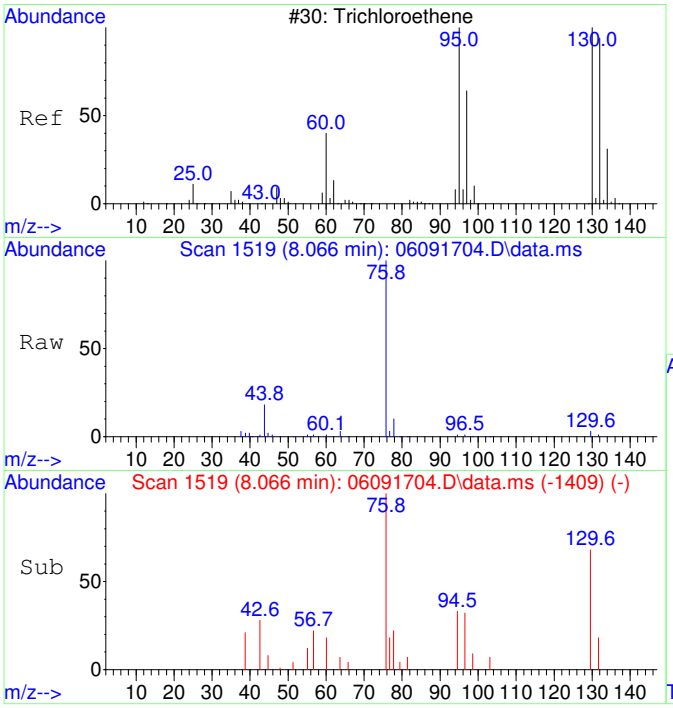


#34
1,2-Dichloroethane SCAN
Concen: 26.19 ug/L
RT: 7.063 min Scan# 1335
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 62 Resp: 1192

Ion	Ratio	Lower	Upper
62	100		
64	106.0	7.4	67.4#
49	15.7	0.0	54.8

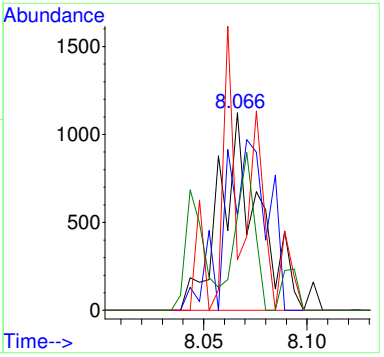


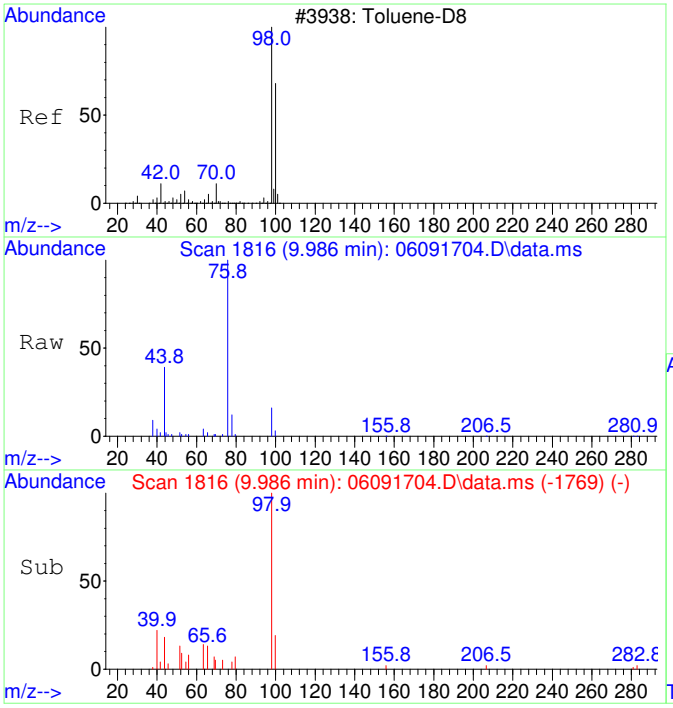


#35
Trichloroethene SCAN
Concen: 60.01 ug/L
RT: 8.066 min Scan# 1519
Delta R.T. 0.005 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:130 Resp: 1466

Ion	Ratio	Lower	Upper
130	100		
95	96.0	76.1	136.1
132	18.3	65.6	125.6#
97	31.9	41.8	101.8#

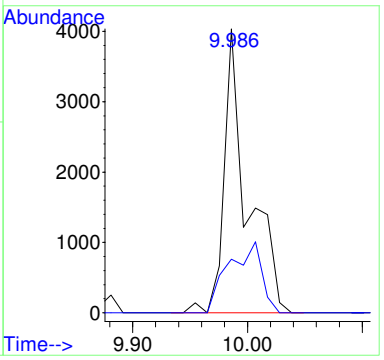


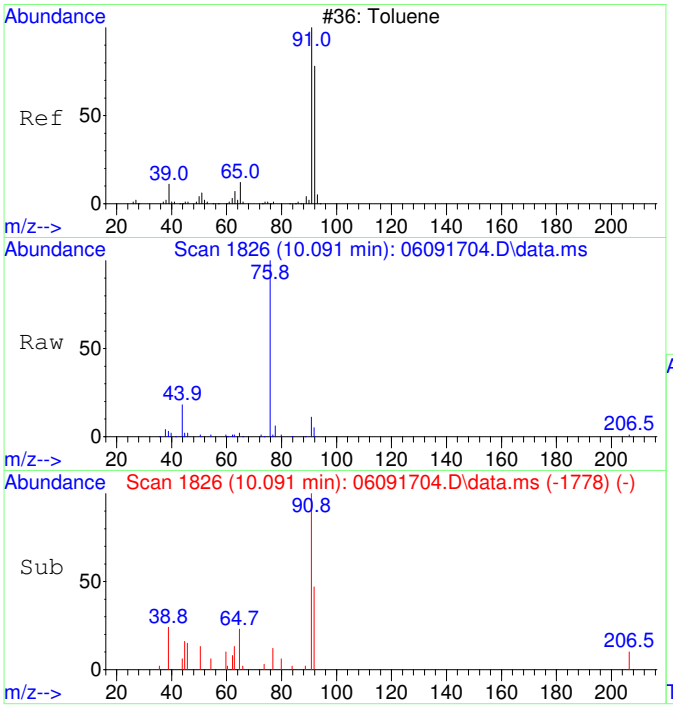


#36
Toluene-d8 SCAN
Concen: 69.64 ug/L
RT: 9.986 min Scan# 1816
Delta R.T. -0.010 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 98 Resp: 5727

Ion	Ratio	Lower	Upper
98	100		
100	0.0	36.2	96.2#

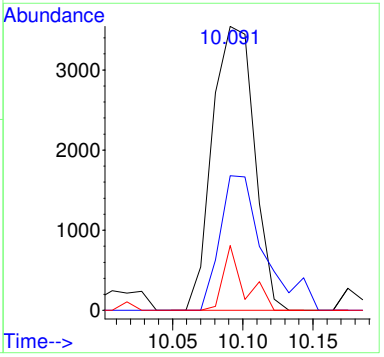


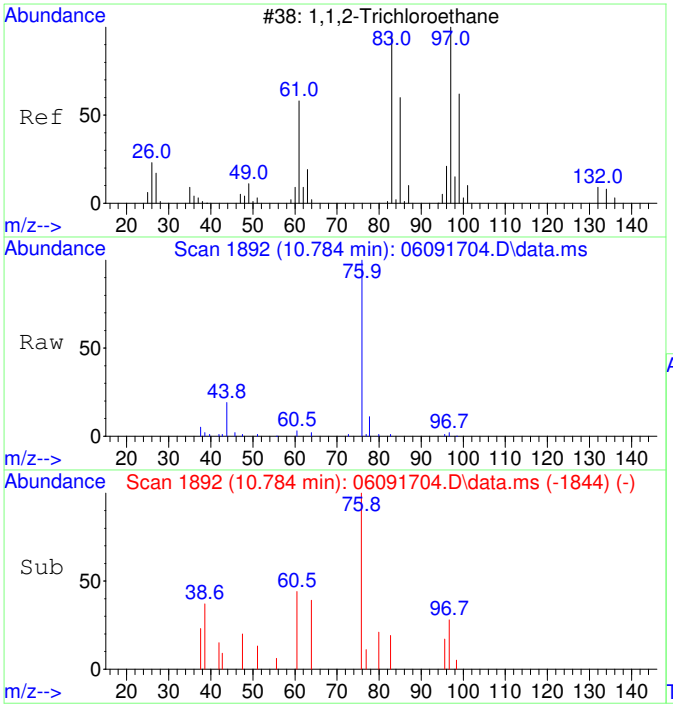


#37
Toluene SCAN
Concen: 67.30 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 7382

Ion	Ratio	Lower	Upper
91	100		
92	50.2	29.2	89.2
65	11.6	0.0	44.3

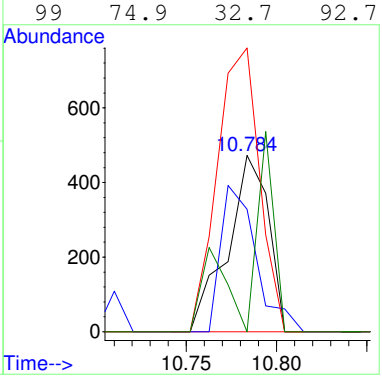


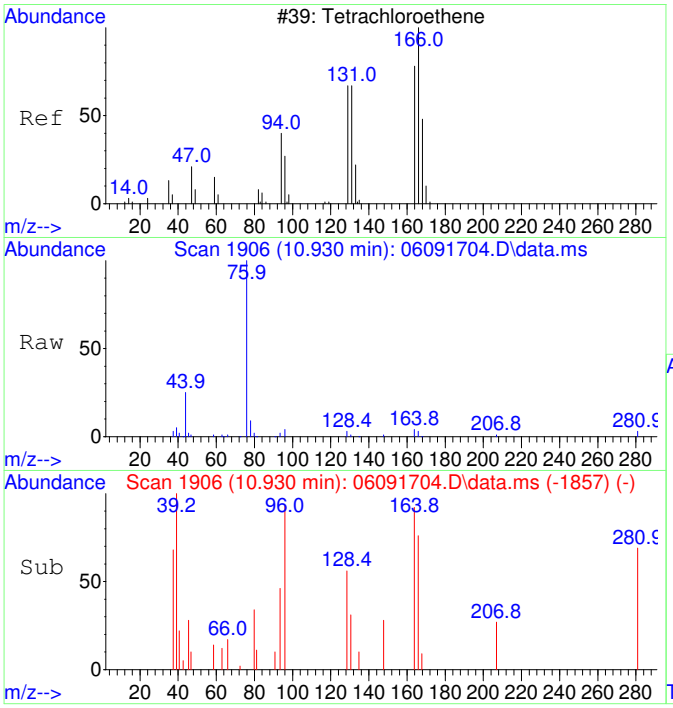


#38
1,1,2-Trichloroethane SCAN
Concen: 30.20 ug/L
RT: 10.784 min Scan# 1892
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 746

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.8	117.8#
61	166.2	48.6	108.6#
99	74.9	32.7	92.7

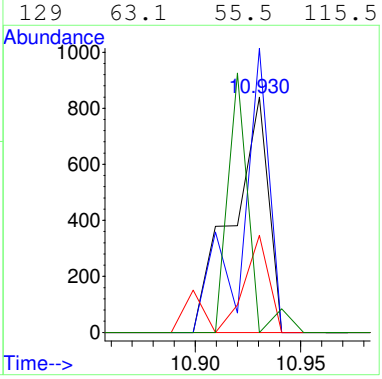


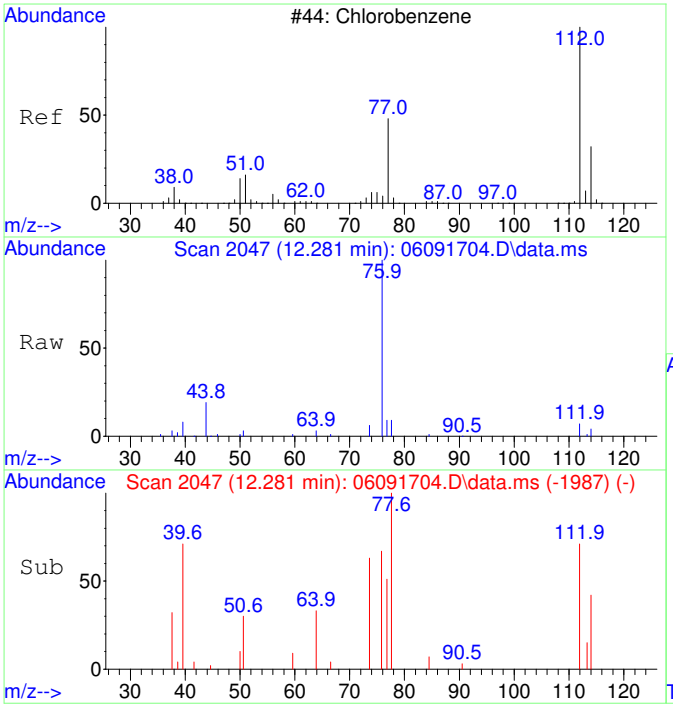


#39
Tetrachloroethene SCAN
Concen: 44.78 ug/L
RT: 10.930 min Scan# 1906
Delta R.T. 0.011 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:166 Resp: 1007

Ion	Ratio	Lower	Upper
166	100		
164	90.1	45.7	105.7
131	37.2	44.8	104.8#
129	63.1	55.5	115.5

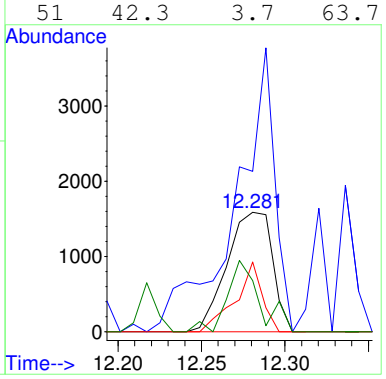


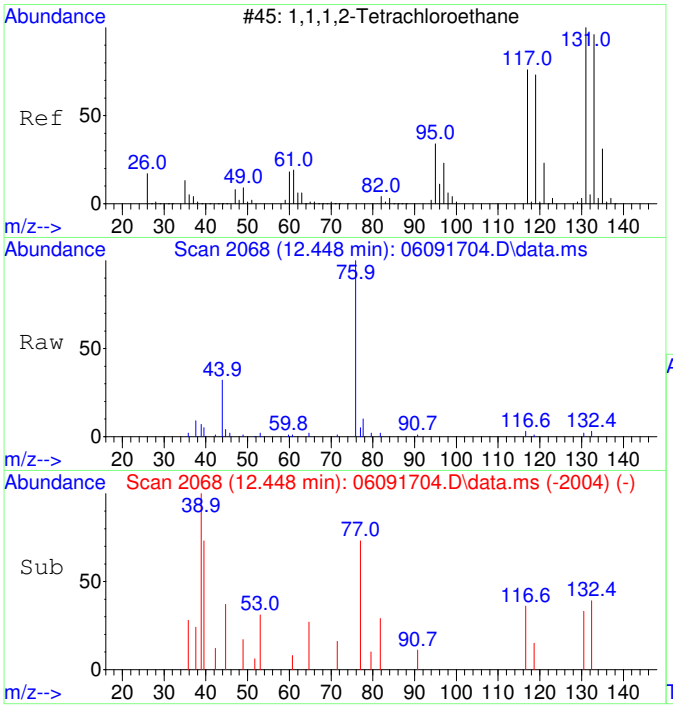


#40
Chlorobenzene SCAN
Concen: 44.80 ug/L
RT: 12.281 min Scan# 2047
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:112 Resp: 3018

Ion	Ratio	Lower	Upper
112	100		
77	205.1	35.1	95.1#
114	34.3	2.6	62.6
51	42.3	3.7	63.7

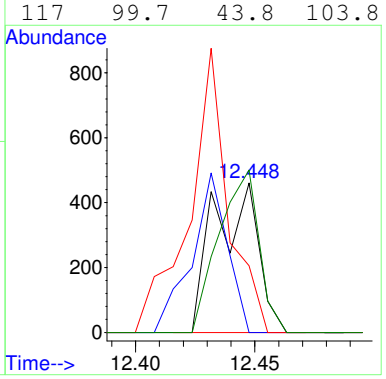


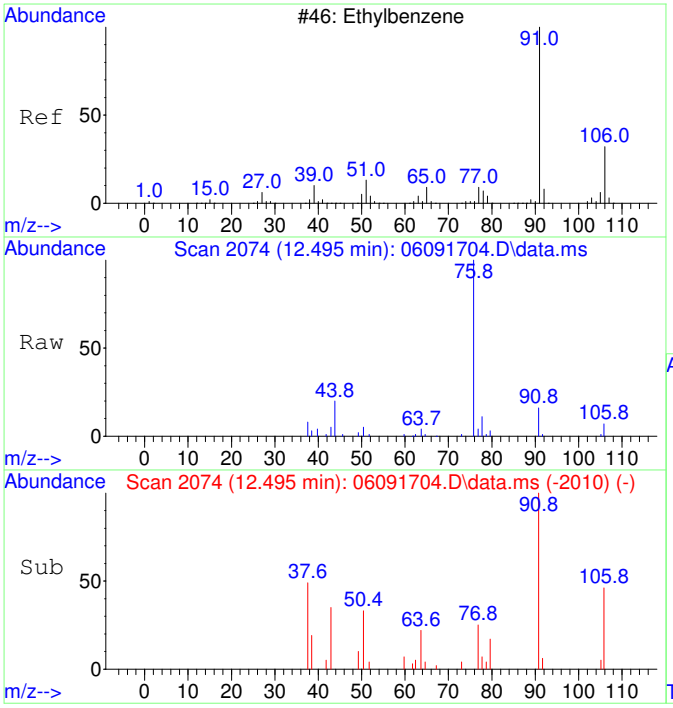


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 28.09 ug/L
RT: 12.448 min Scan# 2068
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:131 Resp: 589

Ion	Ratio	Lower	Upper
131	100		
133	85.9	63.5	123.5
119	168.3	38.0	98.0#
117	99.7	43.8	103.8

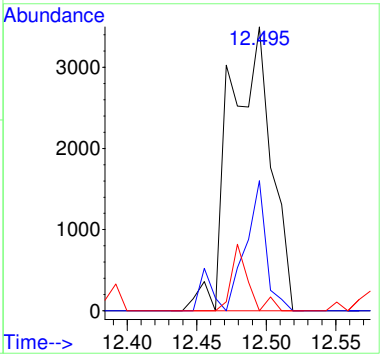


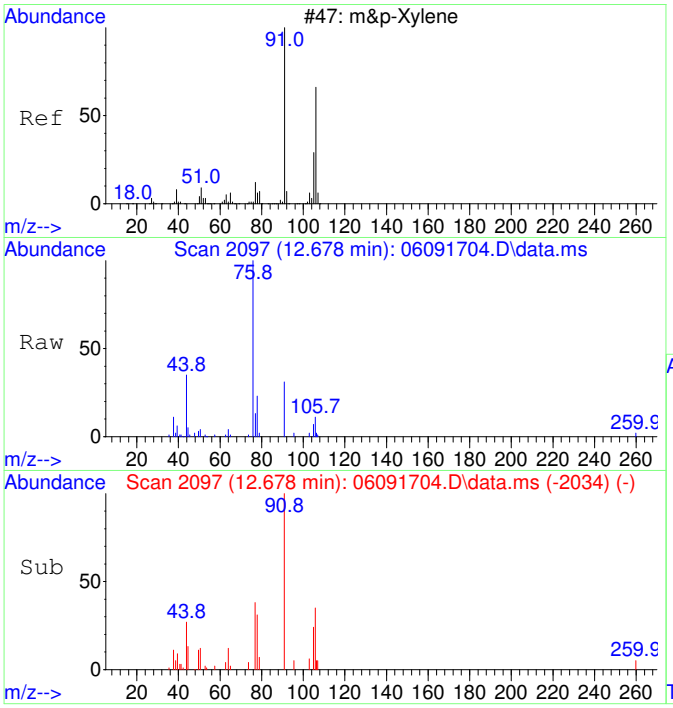


#42
Ethylbenzene SCAN
Concen: 58.77 ug/L
RT: 12.495 min Scan# 2074
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 7217

Ion	Ratio	Lower	Upper
91	100		
106	22.5	0.0	59.8
51	9.6	0.0	45.5

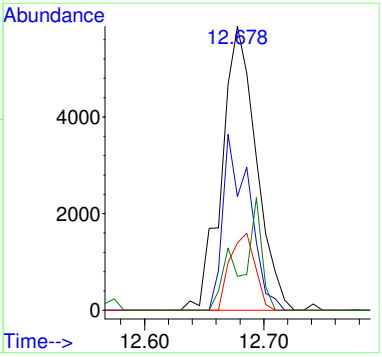


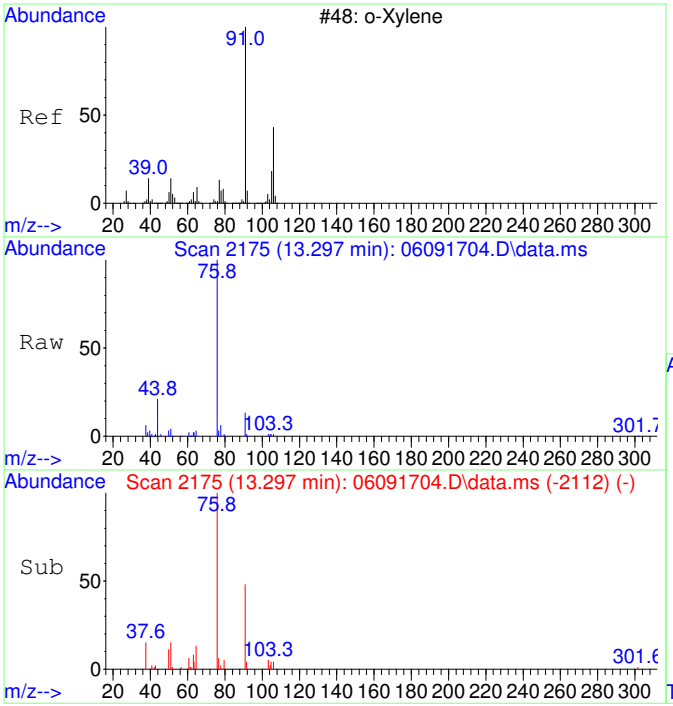


#43
m&p-Xylene SCAN
Concen: 61.87 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 11864

Ion	Ratio	Lower	Upper
91	100		
106	0.0	18.5	78.5#
105	19.8	0.0	51.3
51	23.9	0.0	45.7

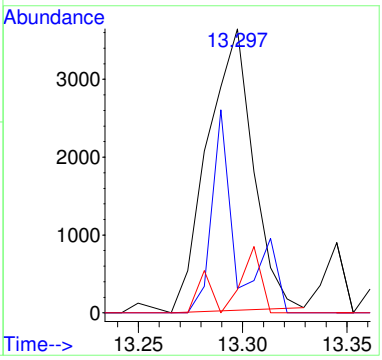


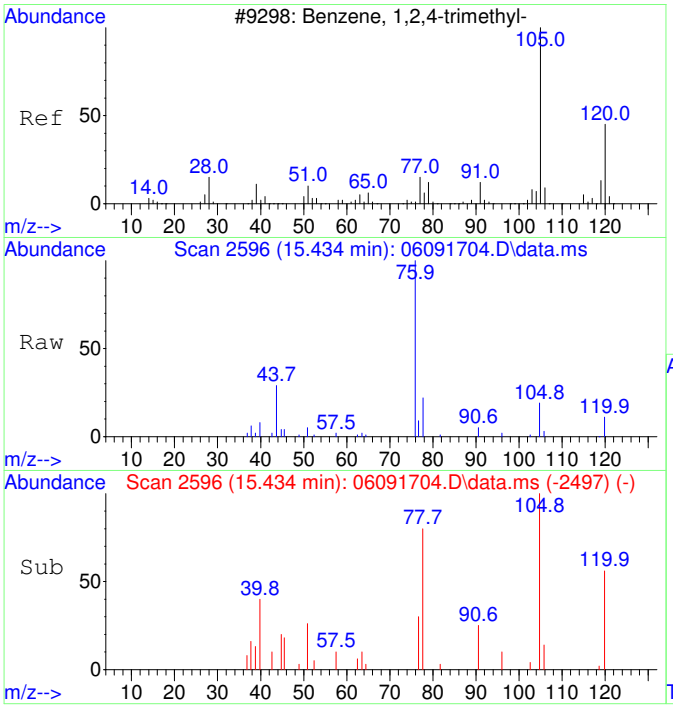


#44
o-Xylene SCAN
Concen: 55.75 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 5505

Ion	Ratio	Lower	Upper
91	100		
106	40.1	15.5	75.5
105	14.7	0.0	54.1

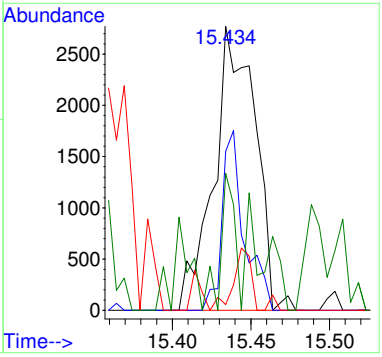


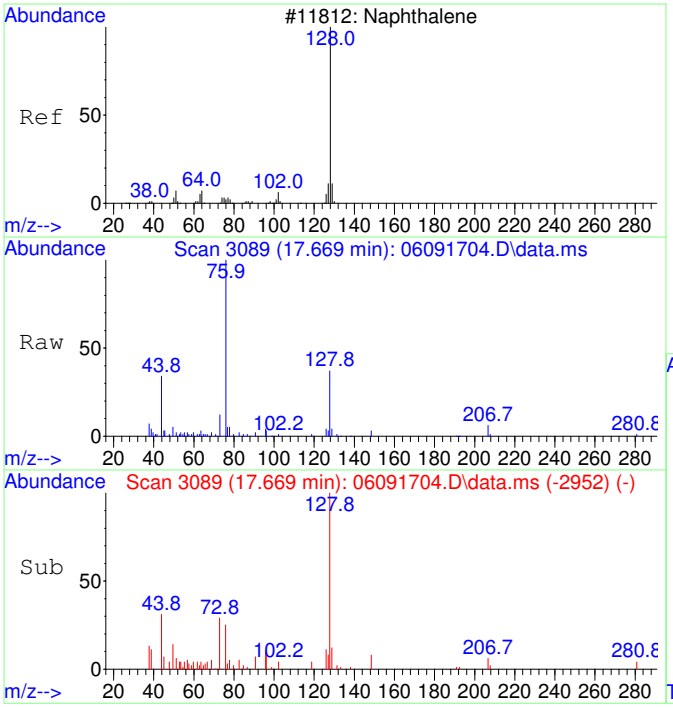


#47
1,2,4-Trimethylbenzene SCAN
Concen: 52.09 ug/L
RT: 15.434 min Scan# 2596
Delta R.T. -0.009 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:105 Resp: 5084

Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.9	72.9#
119	0.0	0.0	40.5
77	16.4	0.0	43.3

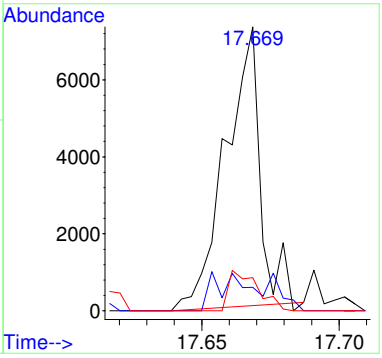




#48
Naphthalene SCAN
Concen: 47.01 ug/L
RT: 17.669 min Scan# 3089
Delta R.T. 0.009 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:128 Resp: 6328

Ion	Ratio	Lower	Upper
128	100		
127	19.4	0.0	43.9
129	12.3	0.0	41.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091704.D
Acq On : 9 Jun 2017 11:38
InstName : AG5975C
Operator : RH
Sample : S17F037-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

M.I. Performed By:
RH at 10:14 am, Jun 14, 2017

M.I. Approved By:
ZR at 11:53 am, Jun 14, 2017

Quant Time: Jun 09 11:56:56 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

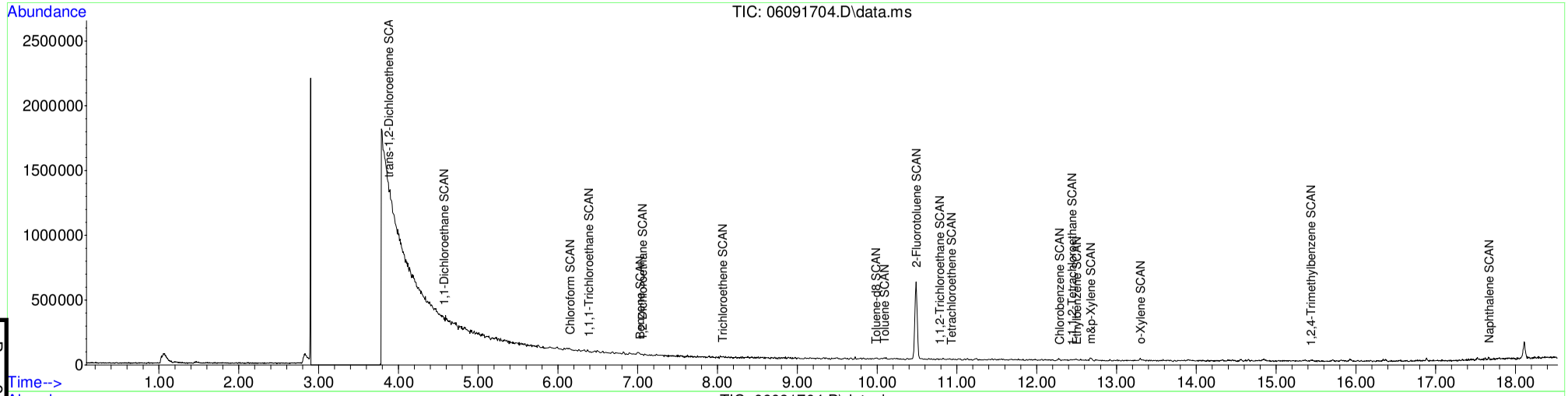
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.491	109	821821	5000.00 ug/L	0.01
System Monitoring Compounds					
12) Toluene-d8	9.998	98	7109	52.82 ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.06%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.711	61	3469m	53.52 ug/L	
3] trans-1,2-Dichloroethene	3.883	61	3805	54.16 ug/L	93
4] 1,1-Dichloroethane	4.559	63	4031	53.24 ug/L	99
5] cis-1,2-Dichloroethene	5.568	61	3778	52.20 ug/L	99
6] Chloroform	6.152	83	3916	55.91 ug/L	99
7] 1,1,1-Trichloroethane	6.383	97	3262	50.71 ug/L	99
8] Carbon tetrachloride	6.650	117	2781	50.12 ug/L	96
9] Benzene	6.991	78	13086	80.23 ug/L	95
10] 1,2-Dichloroethane	7.064	62	3112	51.50 ug/L	100
11] Trichloroethene	8.068	130	2150	51.26 ug/L	98
13] Toluene	10.092	91	10660	59.81 ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	1962	51.48 ug/L	99
15] Tetrachloroethene	10.921	166	2345	51.33 ug/L	98
16] Chlorobenzene	12.282	112	5893	52.05 ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.441	131	1815	48.84 ug/L	95
18] Ethylbenzene	12.481	91	9831	51.25 ug/L	97
19] m&p-Xylene	12.679	91	15190	100.95 ug/L	98
20] o-Xylene	13.291	91	7948	51.07 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	3314	50.07 ug/L	99
22] 1,3,5-Trimethylbenzene	14.854	105	7493	48.76 ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	7534	47.83 ug/L	100
24] Naphthalene	17.662	128	11830	50.71 ug/L	99
25) 2-Fluorotoluene SCAN	10.490	109	466899	4685.85 ug/L	96
27) trans-1,2-Dichloroethe...	3.881	61	1377	30.78 ug/L #	61
28) 1,1-Dichloroethane SCAN	4.571	63	1513	29.66 ug/L	72
30) Chloroform SCAN	6.150	83	1768	37.99 ug/L #	27
31) 1,1,1-Trichloroethane ...	6.382	97	1411	36.84 ug/L #	64
33) Benzene SCAN	7.026	78	23827	225.89 ug/L	81
34) 1,2-Dichloroethane SCAN	7.063	62	1192	26.19 ug/L #	24
35) Trichloroethene SCAN	8.066	130	1466	60.01 ug/L #	56
36) Toluene-d8 SCAN	9.986	98	5727	69.64 ug/L #	17
37) Toluene SCAN	10.091	91	7382	67.30 ug/L	89
38) 1,1,2-Trichloroethane ...	10.784	97	746	30.20 ug/L #	25
39) Tetrachloroethene SCAN	10.930	166	1007	44.78 ug/L #	72
40) Chlorobenzene SCAN	12.281	112	3018	44.80 ug/L #	8
41) 1,1,1,2-Tetrachloroeth...	12.448	131	589	28.09 ug/L #	51
42) Ethylbenzene SCAN	12.495	91	7217	58.77 ug/L	86
43) m&p-Xylene SCAN	12.678	91	11864	61.87 ug/L #	55
44) o-Xylene SCAN	13.297	91	5505	55.75 ug/L	88
47) 1,2,4-Trimethylbenzene...	15.434	105	5084	52.09 ug/L #	51
48) Naphthalene SCAN	17.669	128	6328	47.01 ug/L	91

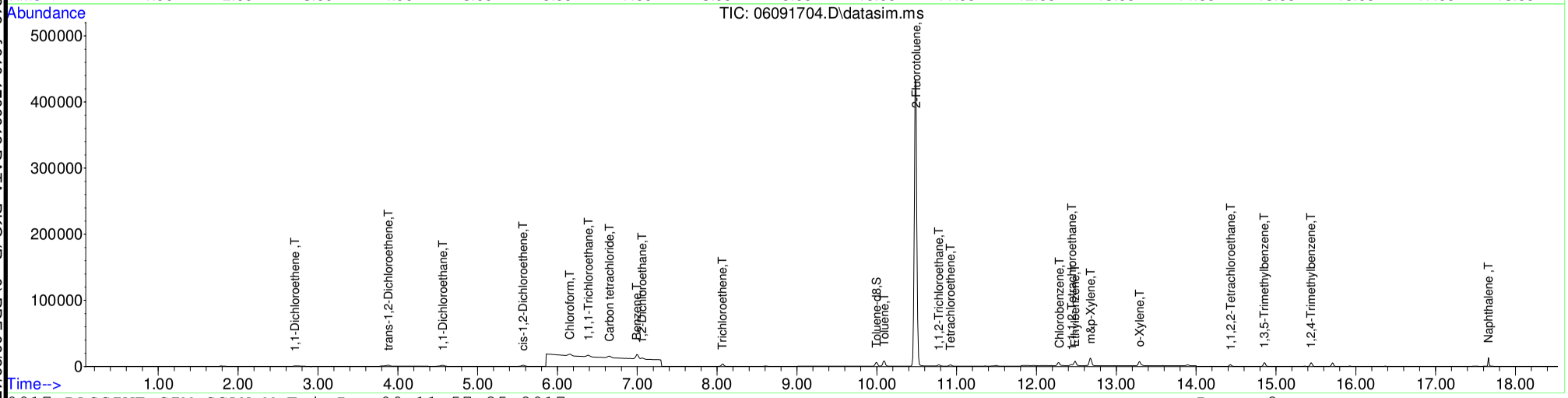
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091704.D
Acq On : 9 Jun 2017 11:38
InstName : AG5975C
Operator : RH
Sample : S17F037-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 09 11:56:56 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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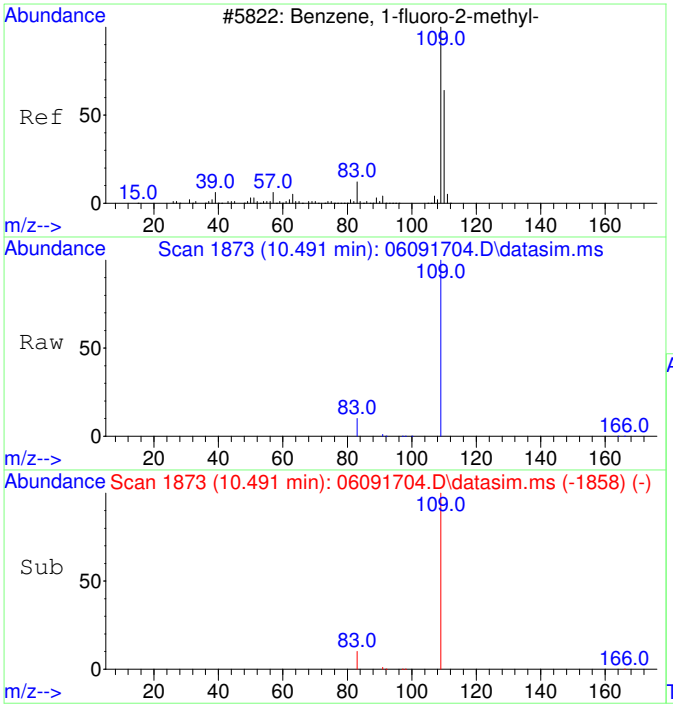
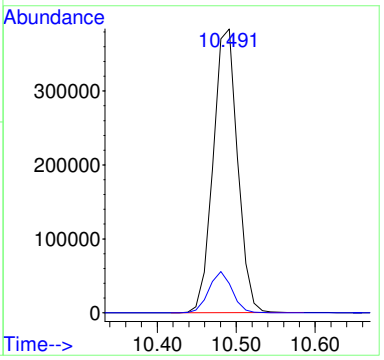
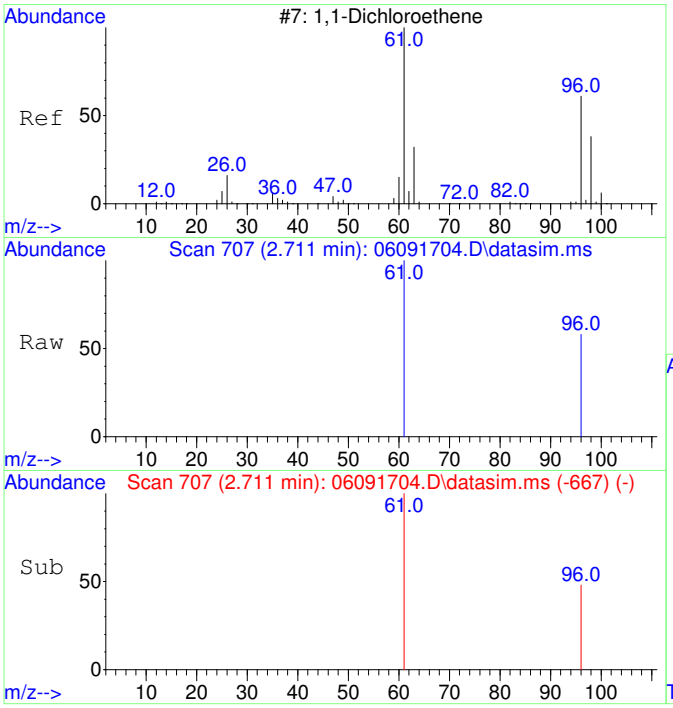


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.491 min Scan# 1873
Delta R.T. 0.011 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:109 Resp: 821821

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	44.4

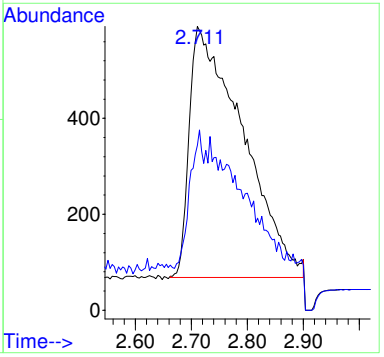


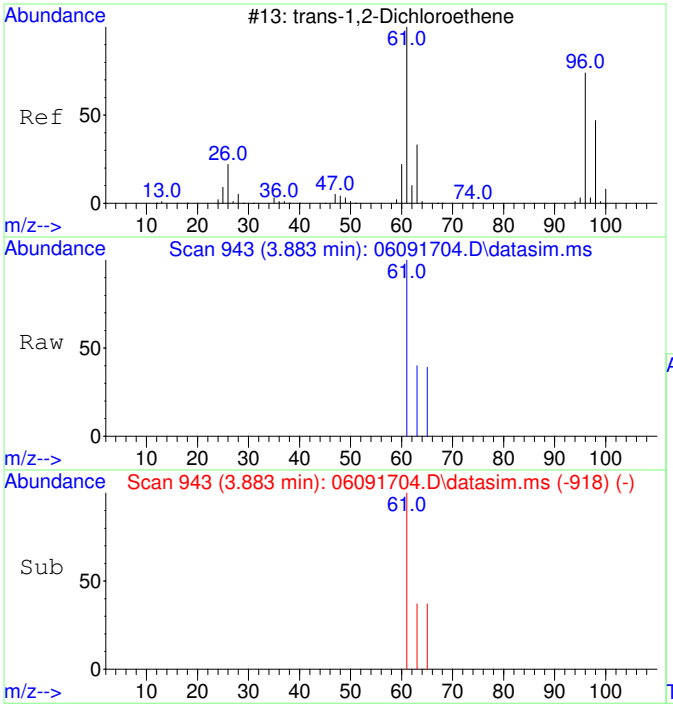


#2
1,1-Dichloroethene
Concen: 53.52 ug/L m
RT: 2.711 min Scan# 707
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 61 Resp: 3469

Ion	Ratio	Lower	Upper
61	100		
96	56.3	21.8	81.8

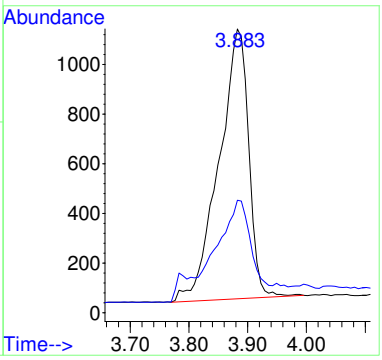


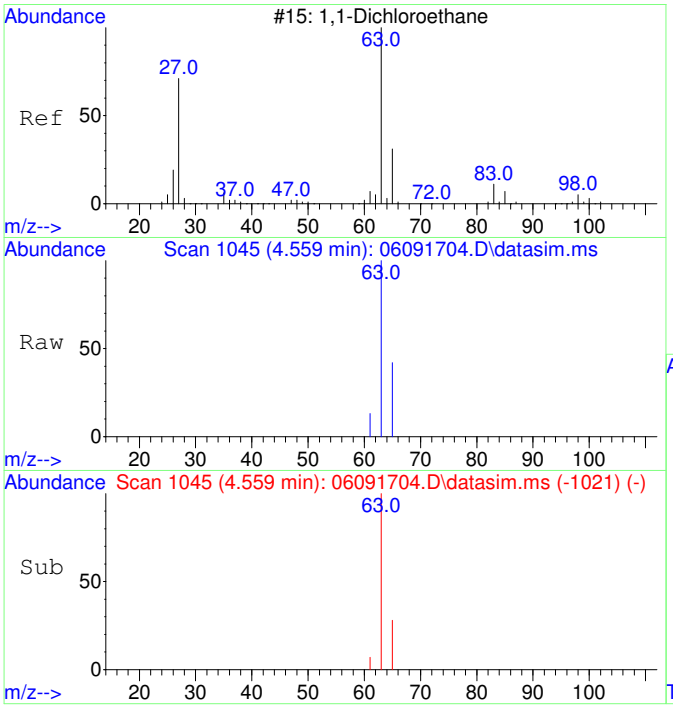


#3
trans-1,2-Dichloroethene
Concen: 54.16 ug/L
RT: 3.883 min Scan# 943
Delta R.T. 0.013 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 61 Resp: 3805

Ion	Ratio	Lower	Upper
61	100		
63	27.3	1.0	61.0

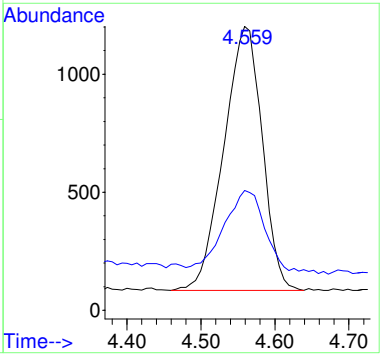


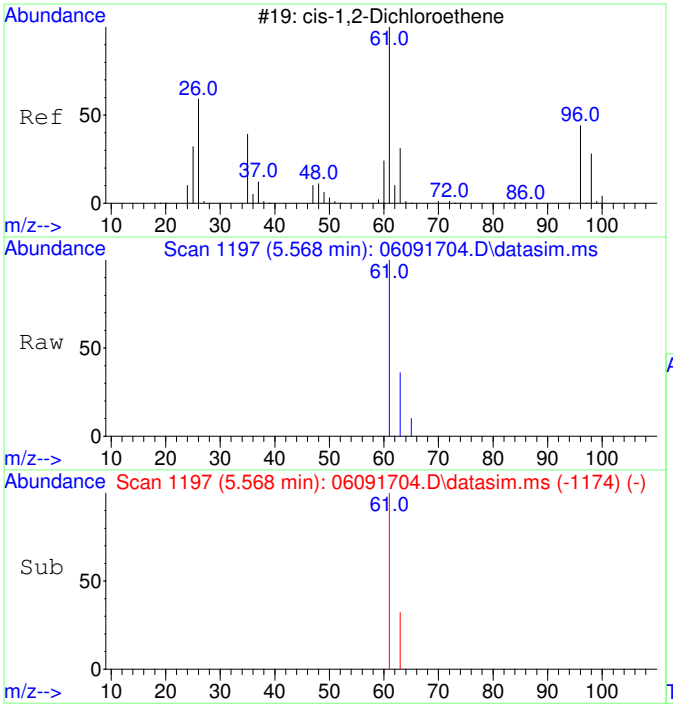


#4
1,1-Dichloroethane
Concen: 53.24 ug/L
RT: 4.559 min Scan# 1045
Delta R.T. 0.007 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 63 Resp: 4031

Ion	Ratio	Lower	Upper
63	100		
65	30.9	0.4	60.4

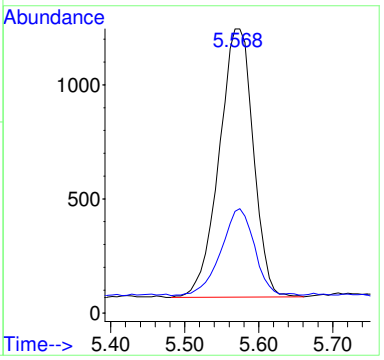


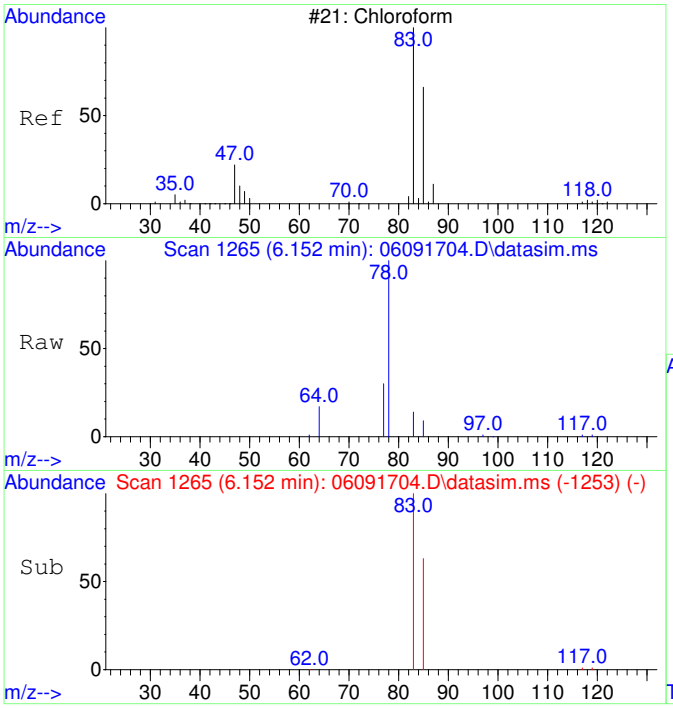


#5
cis-1,2-Dichloroethene
Concen: 52.20 ug/L
RT: 5.568 min Scan# 1197
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 61 Resp: 3778

Ion	Ratio	Lower	Upper
61	100		
63	31.6	0.9	60.9

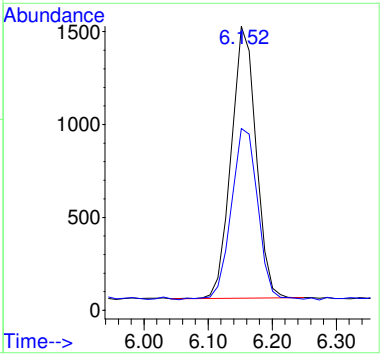


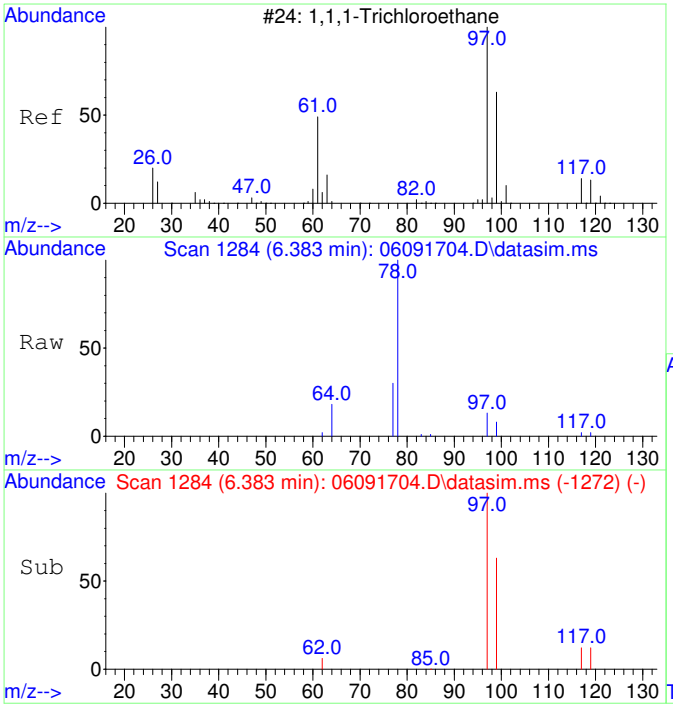


#6
Chloroform
Concen: 55.91 ug/L
RT: 6.152 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 83 Resp: 3916

Ion	Ratio	Lower	Upper
83	100		
85	64.8	33.7	93.7

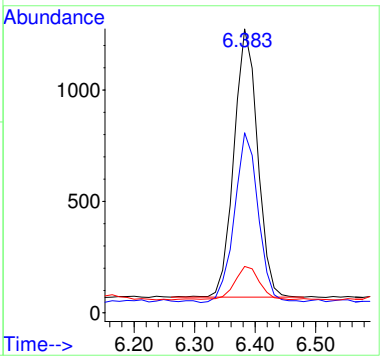


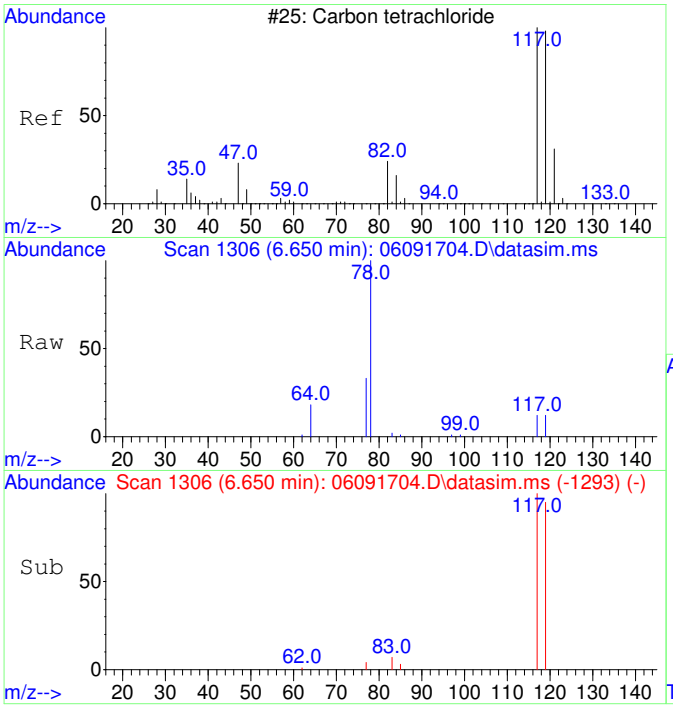


#7
1,1,1-Trichloroethane
Concen: 50.71 ug/L
RT: 6.383 min Scan# 1284
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 3262

Ion	Ratio	Lower	Upper
97	100		
99	63.4	34.3	94.3
117	12.4	0.0	42.3

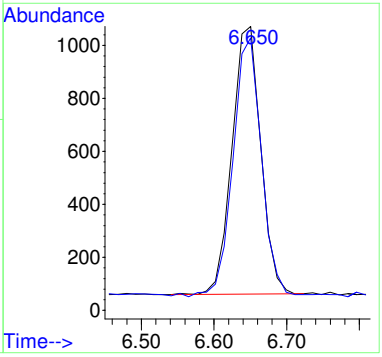


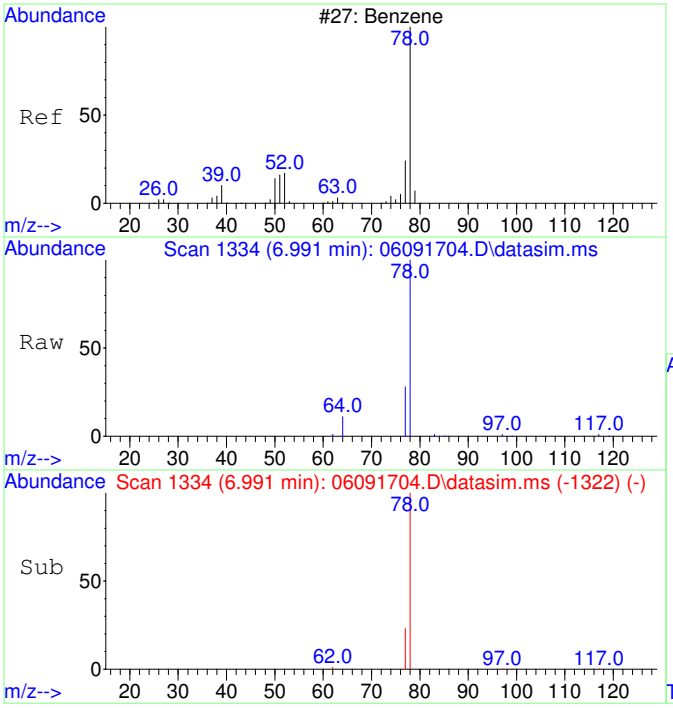


#8
Carbon tetrachloride
Concen: 50.12 ug/L
RT: 6.650 min Scan# 1306
Delta R.T. 0.012 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:117 Resp: 2781

Ion	Ratio	Lower	Upper
117	100		
119	92.0	65.5	125.5

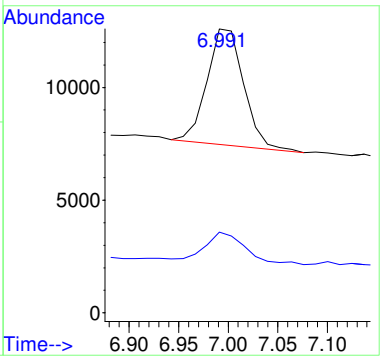


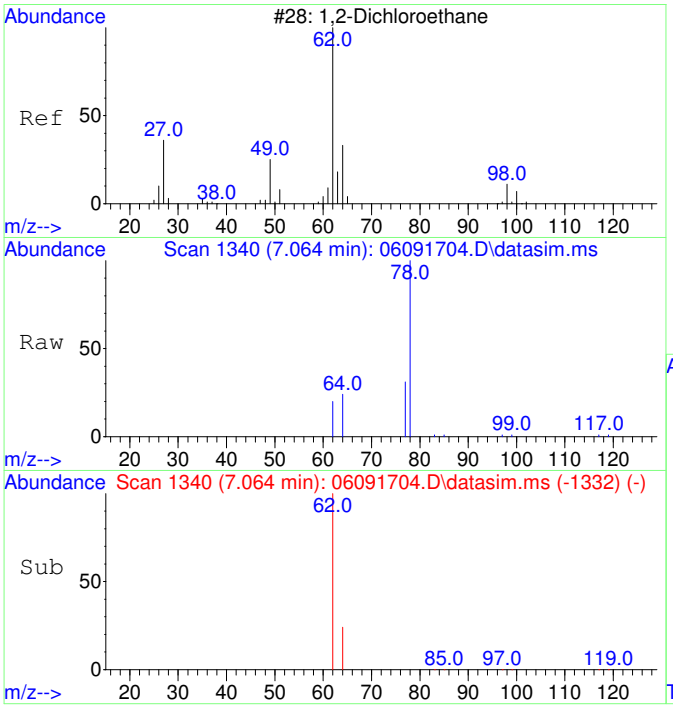


#9
Benzene
Concen: 80.23 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 78 Resp: 13086

Ion	Ratio	Lower	Upper
78	100		
77	25.3	0.0	53.0

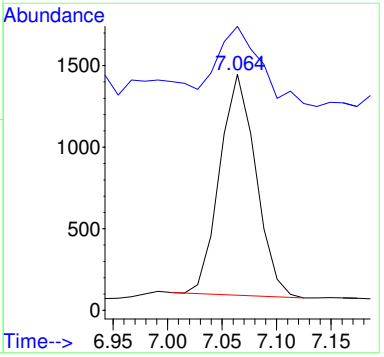


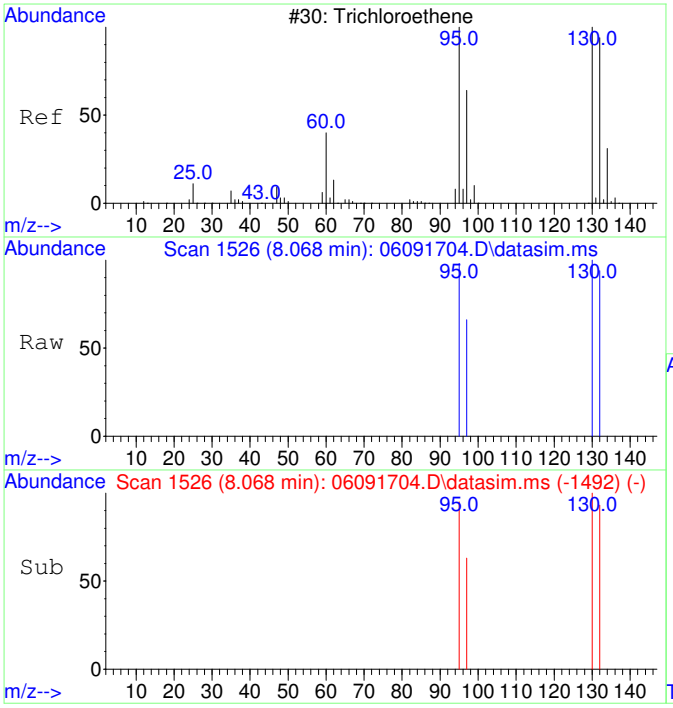


#10
1,2-Dichloroethane
Concen: 51.50 ug/L
RT: 7.064 min Scan# 1340
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 62 Resp: 3112

Ion	Ratio	Lower	Upper
62	100		
64	32.7	2.6	62.6

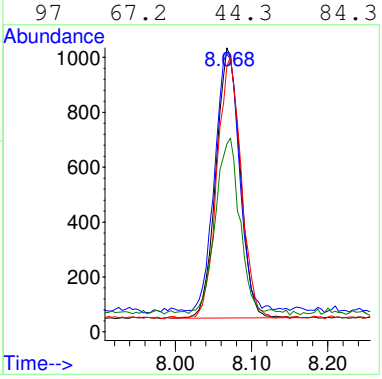


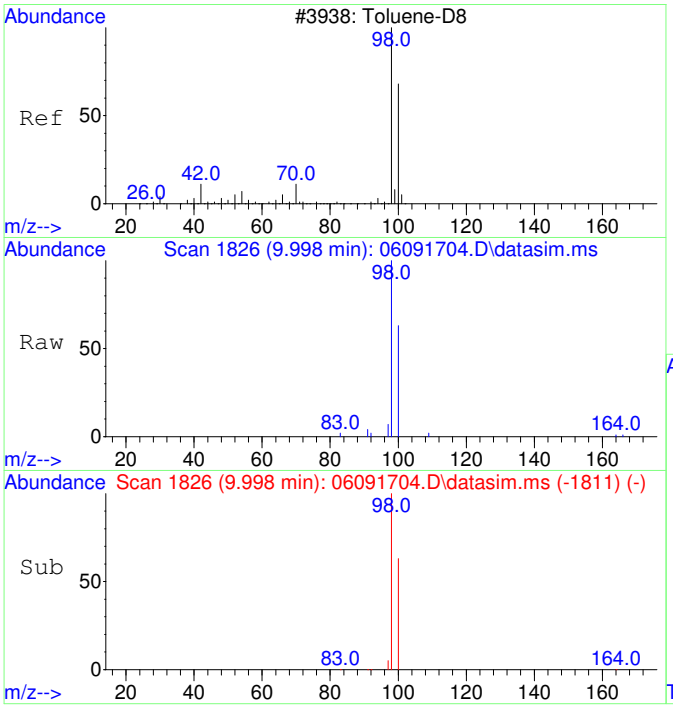


#11
Trichloroethene
Concen: 51.26 ug/L
RT: 8.068 min Scan# 1526
Delta R.T. 0.005 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:130 Resp: 2150

Ion	Ratio	Lower	Upper
130	100		
95	98.1	69.8	129.8
132	96.3	76.4	116.4
97	67.2	44.3	84.3

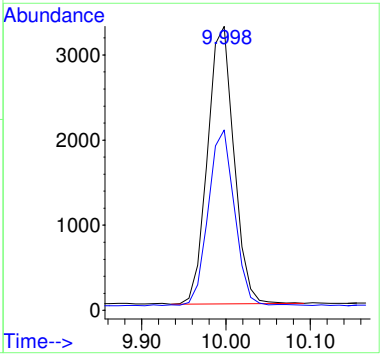


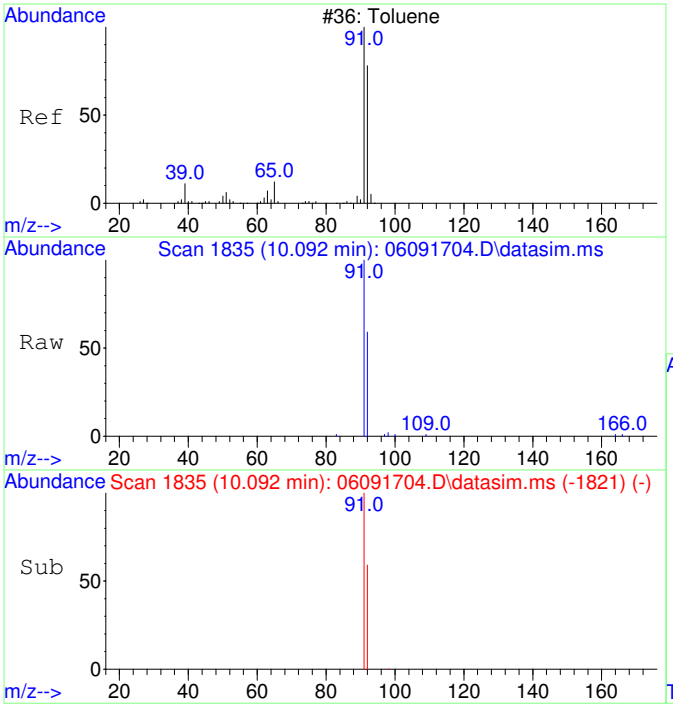


#12
Toluene-d8
Concen: 52.82 ug/L
RT: 9.998 min Scan# 1826
Delta R.T. 0.011 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 98 Resp: 7109

Ion	Ratio	Lower	Upper
98	100		
100	61.9	34.2	94.2

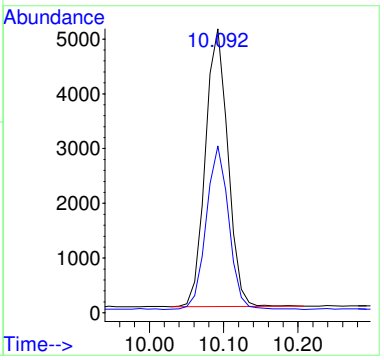


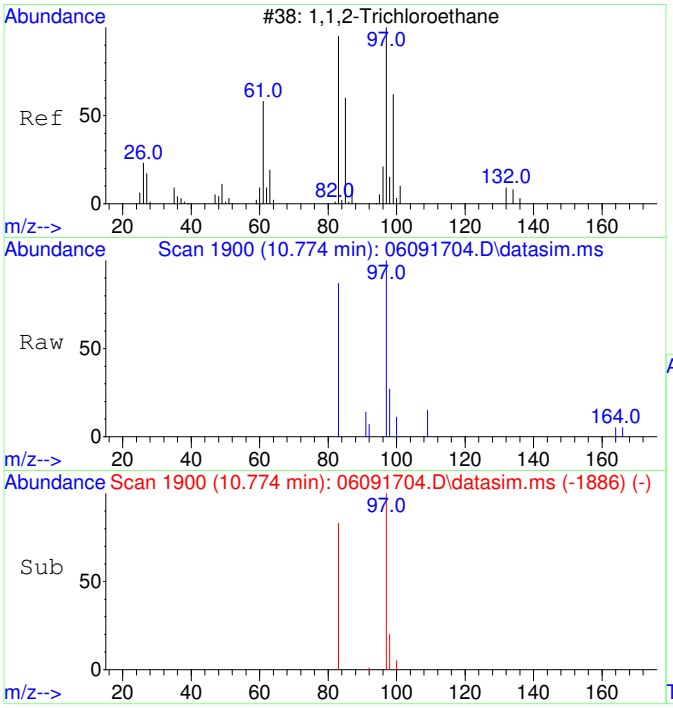


#13
Toluene
Concen: 59.81 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 10660

Ion	Ratio	Lower	Upper
91	100		
92	58.3	28.4	88.4

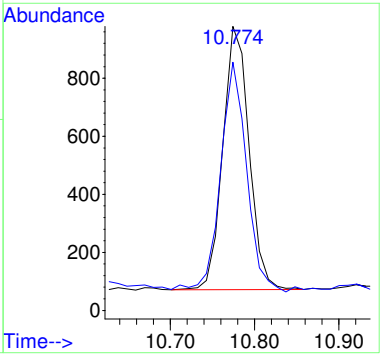


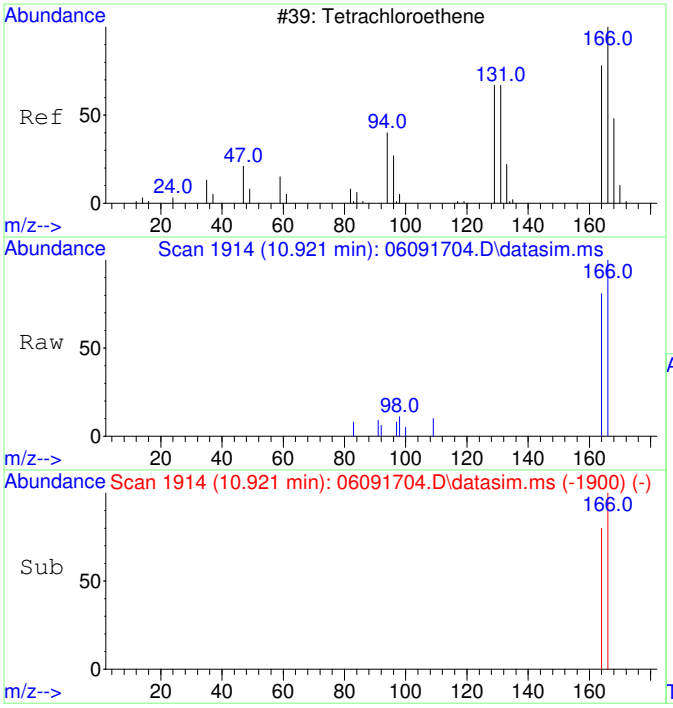


#14
1,1,2-Trichloroethane
Concen: 51.48 ug/L
RT: 10.774 min Scan# 1900
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 1962

Ion	Ratio	Lower	Upper
97	100		
83	83.3	54.5	114.5

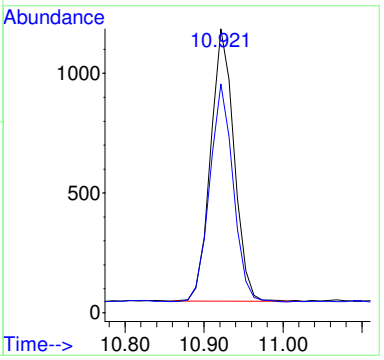


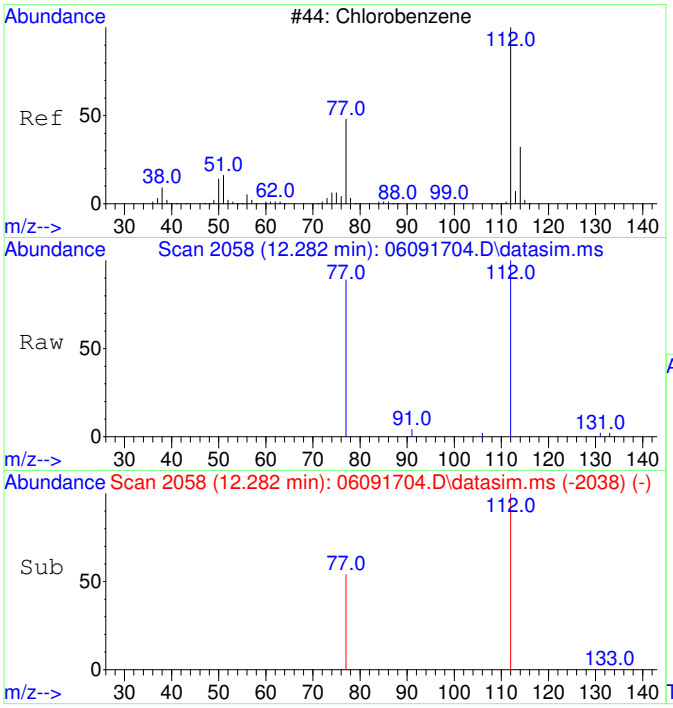


#15
Tetrachloroethene
Concen: 51.33 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:166 Resp: 2345

Ion	Ratio	Lower	Upper
166	100		
164	79.6	48.1	108.1

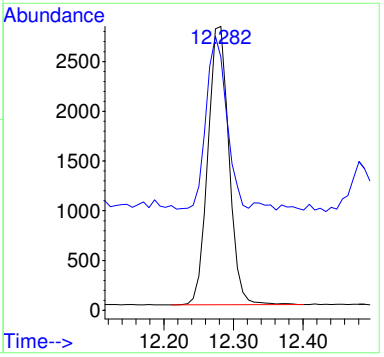


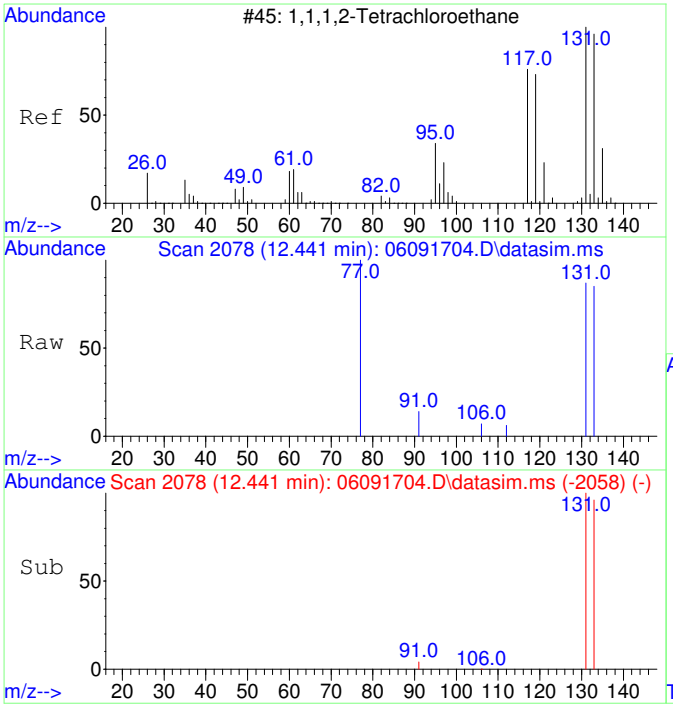


#16
Chlorobenzene
Concen: 52.05 ug/L
RT: 12.282 min Scan# 2058
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:112 Resp: 5893

Ion	Ratio	Lower	Upper
112	100		
77	59.5	28.9	88.9

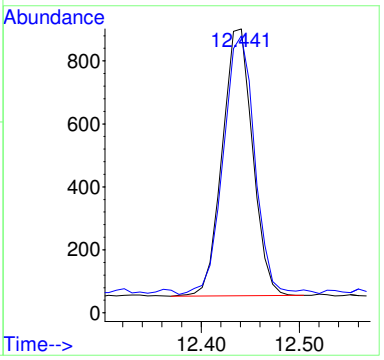


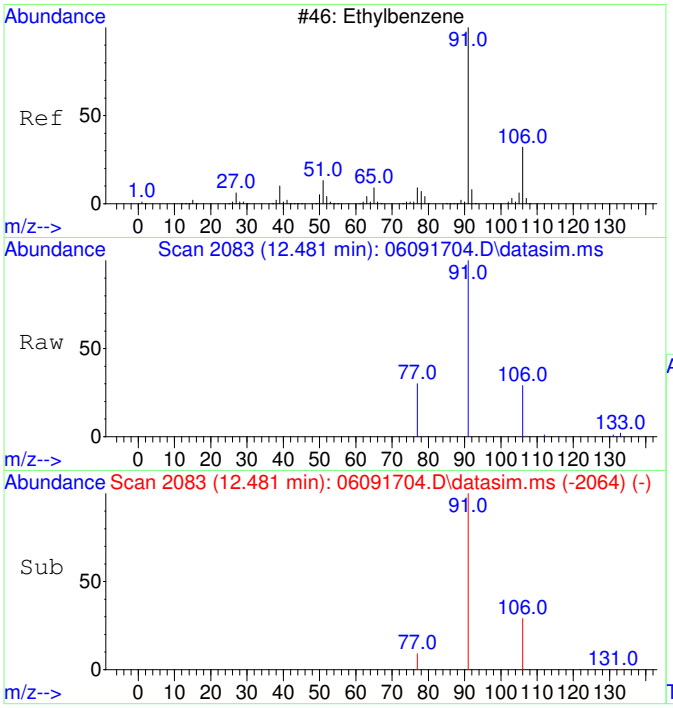


#17
1,1,1,2-Tetrachloroethane
Concen: 48.84 ug/L
RT: 12.441 min Scan# 2078
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:131 Resp: 1815

Ion	Ratio	Lower	Upper
131	100		
133	99.9	65.2	125.2

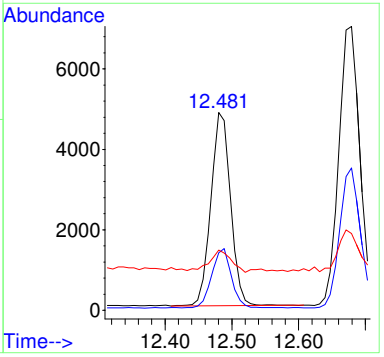


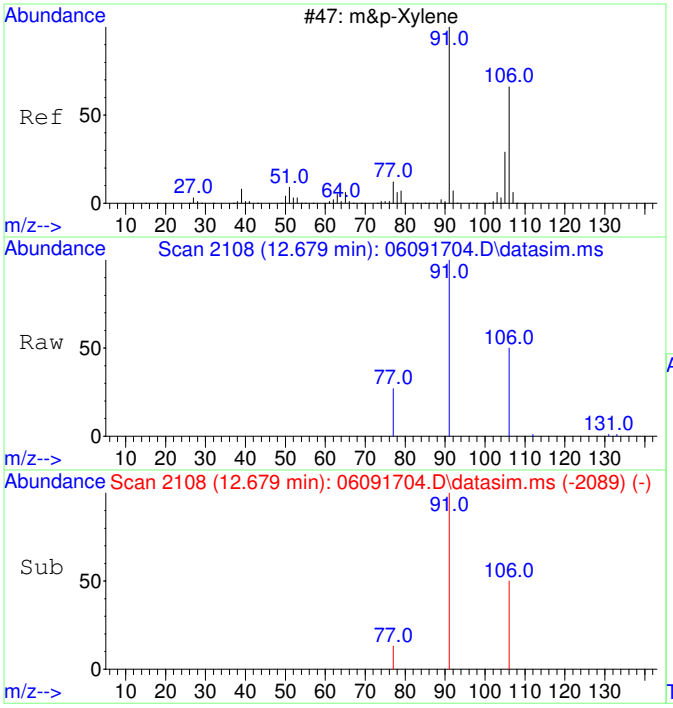


#18
Ethylbenzene
Concen: 51.25 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 9831

Ion	Ratio	Lower	Upper
91	100		
106	30.1	1.2	61.2
77	11.4	0.0	38.6

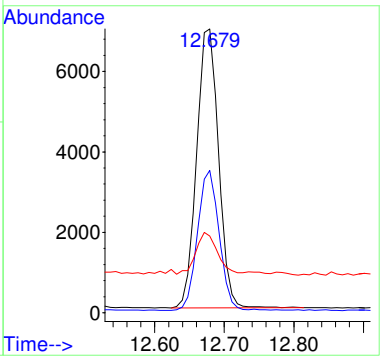


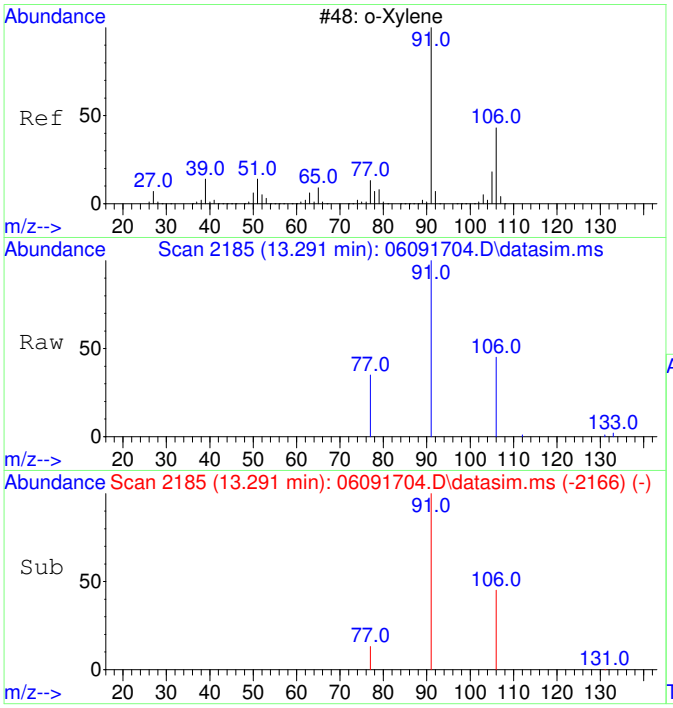


#19
m&p-Xylene
Concen: 100.95 ug/L
RT: 12.679 min Scan# 2108
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 15190

Ion	Ratio	Lower	Upper
91	100		
106	49.4	18.4	78.4
77	14.9	0.0	43.1

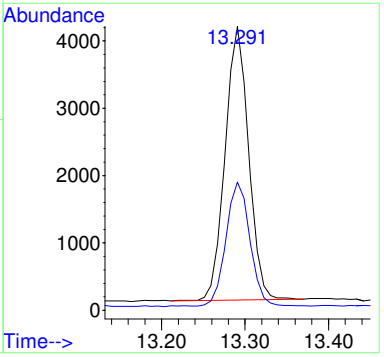


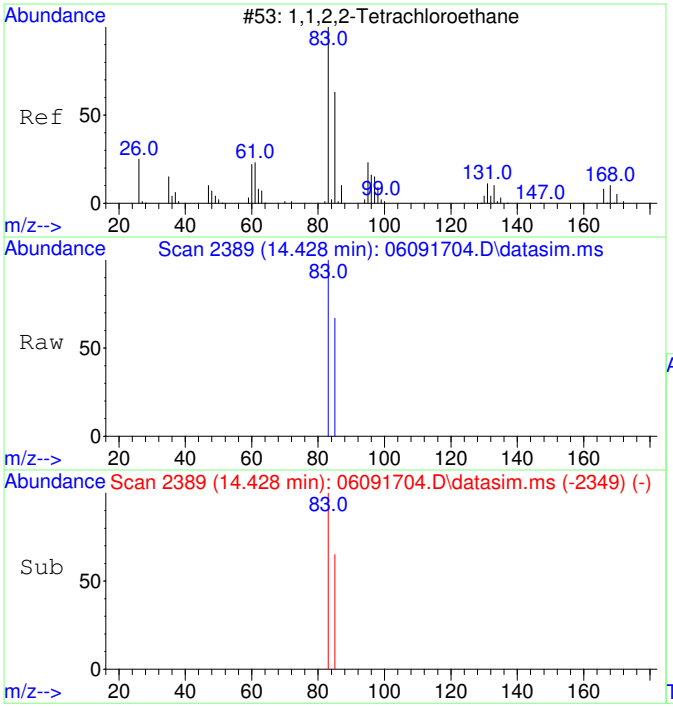


#20
o-Xylene
Concen: 51.07 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 7948

Ion	Ratio	Lower	Upper
91	100		
106	46.1	16.0	76.0

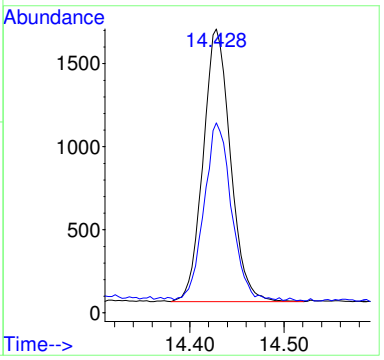


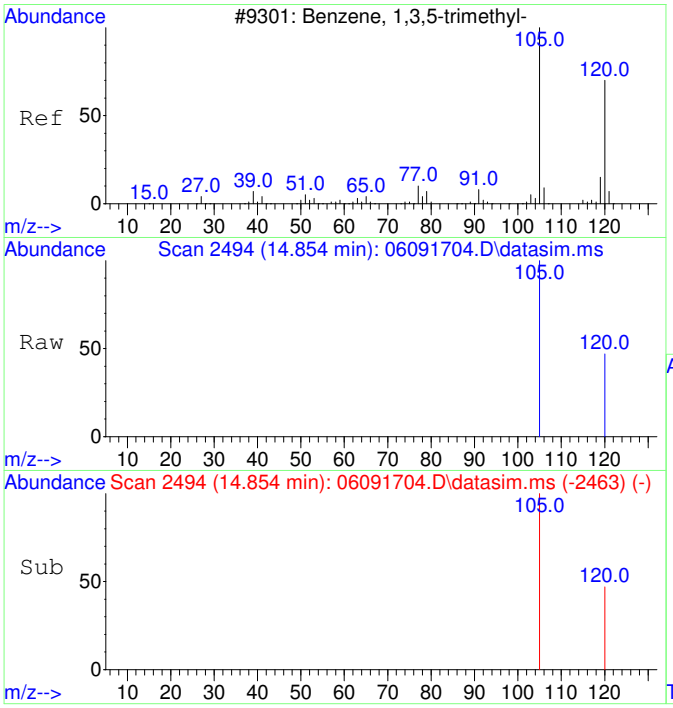


#21
1,1,2,2-Tetrachloroethane
Concen: 50.07 ug/L
RT: 14.428 min Scan# 2389
Delta R.T. -0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 83 Resp: 3314

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.1	94.1

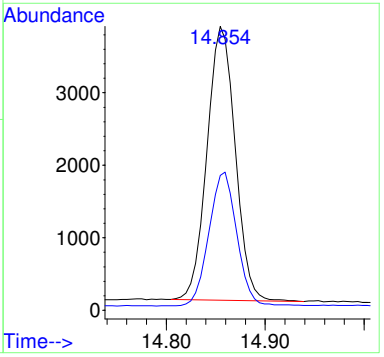


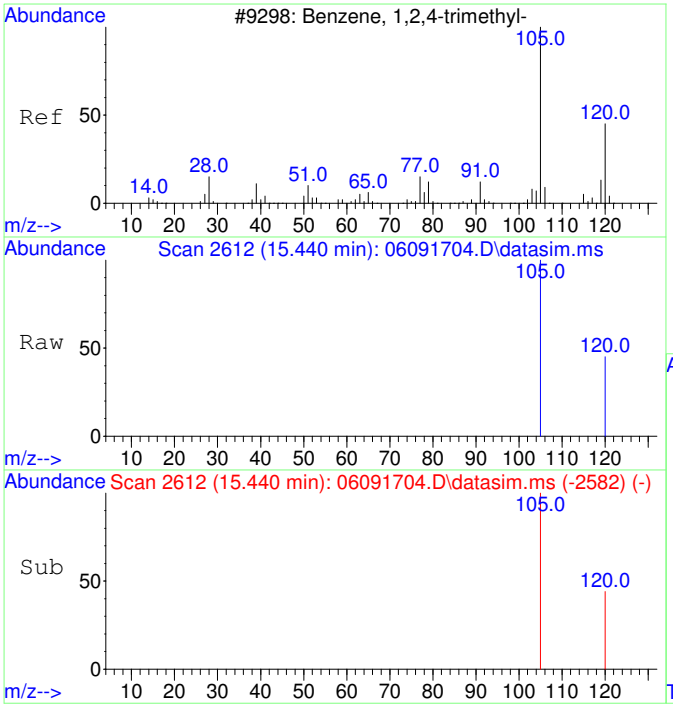


#22
1,3,5-Trimethylbenzene
Concen: 48.76 ug/L
RT: 14.854 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:105 Resp: 7493

Ion	Ratio	Lower	Upper
105	100		
120	48.4	18.0	78.0

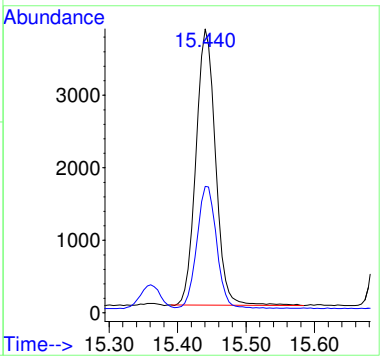


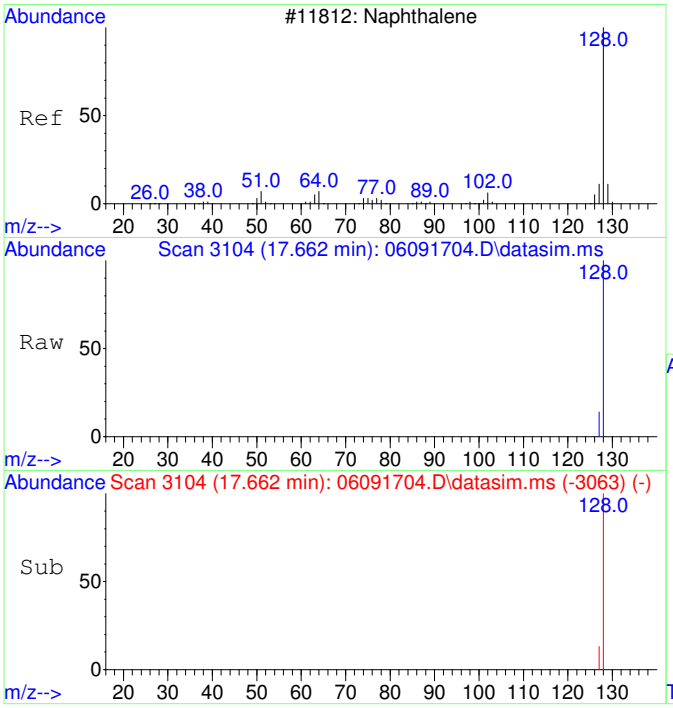


#23
1,2,4-Trimethylbenzene
Concen: 47.83 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:105 Resp: 7534

Ion	Ratio	Lower	Upper
105	100		
120	44.1	14.4	74.4

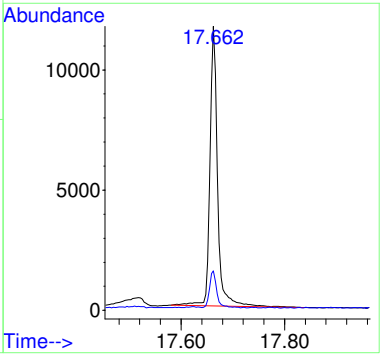


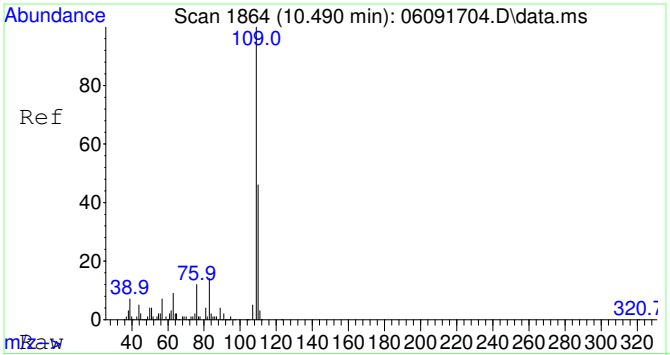


#24
Naphthalene
Concen: 50.71 ug/L
RT: 17.662 min Scan# 3104
Delta R.T. 0.001 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:128 Resp: 11830

Ion	Ratio	Lower	Upper
128	100		
127	12.5	0.0	42.7

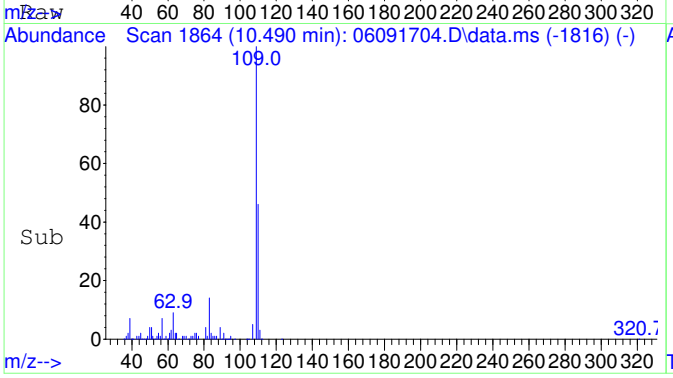


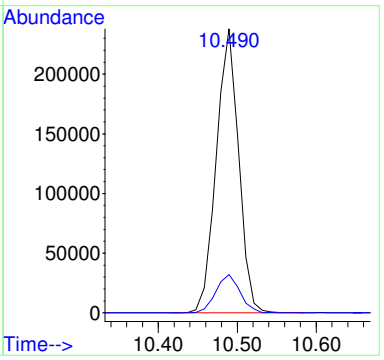


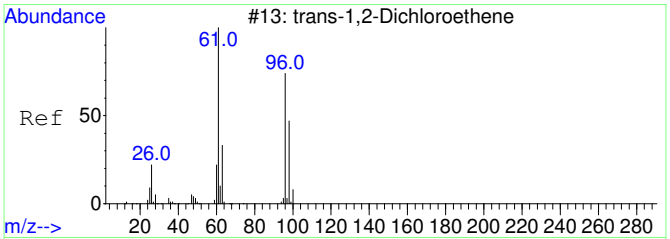
#25
2-Fluorotoluene SCAN
Concen: 4685.85 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:109 Resp: 466899

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	46.1



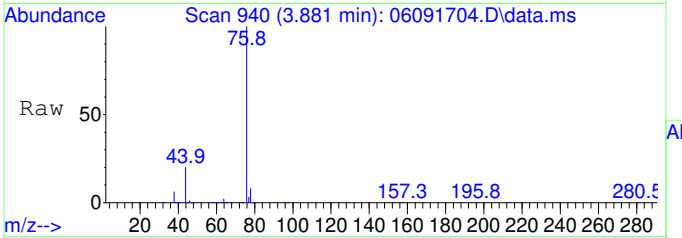


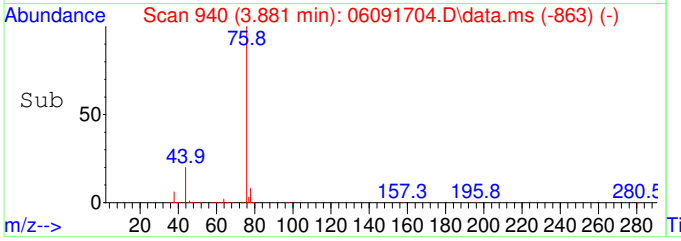


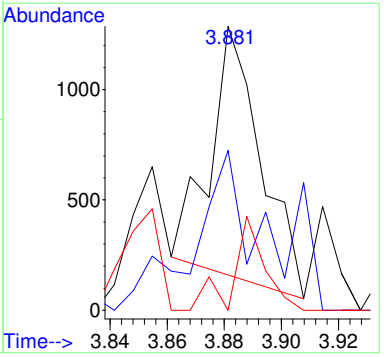
#27
trans-1,2-Dichloroethene SCAN
Concen: 30.78 ug/L
RT: 3.881 min Scan# 940
Delta R.T. 0.013 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

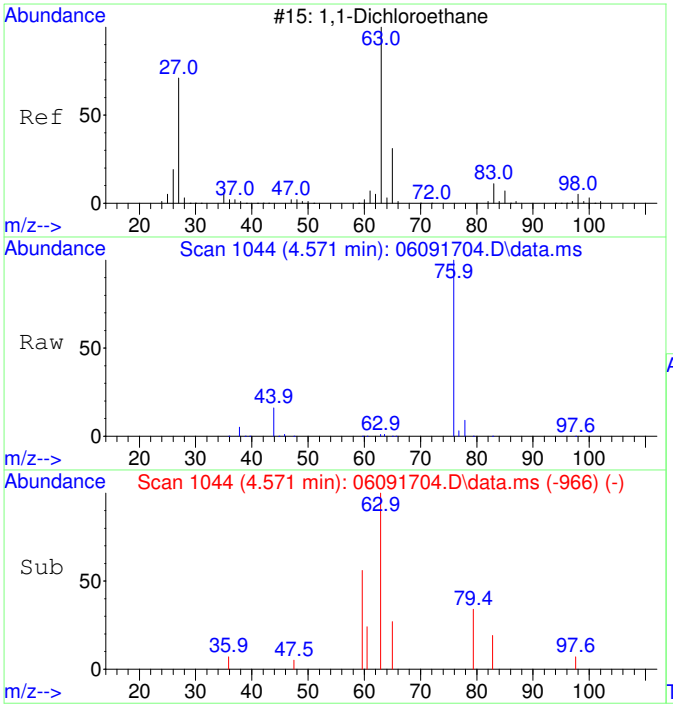
Tgt Ion: 61 Resp: 1377

Ion	Ratio	Lower	Upper
61	100		
96	93.8	26.1	86.1#
98	23.5	4.4	64.4





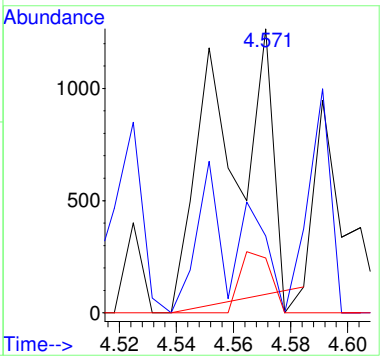


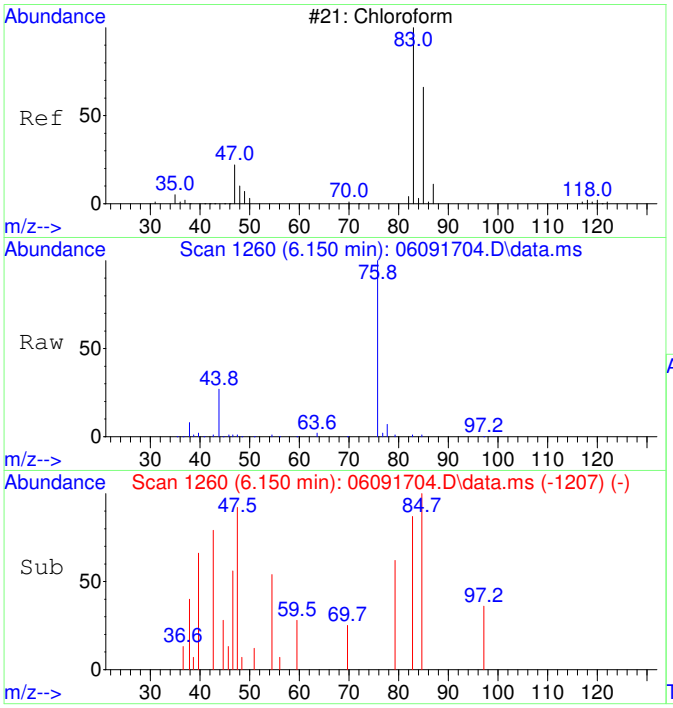


#28
1,1-Dichloroethane SCAN
Concen: 29.66 ug/L
RT: 4.571 min Scan# 1044
Delta R.T. 0.020 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 63 Resp: 1513

Ion	Ratio	Lower	Upper
63	100		
65	46.5	1.1	61.1
83	13.5	0.0	31.5

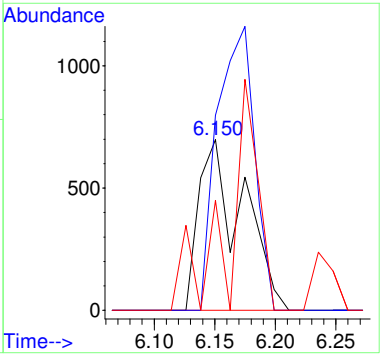


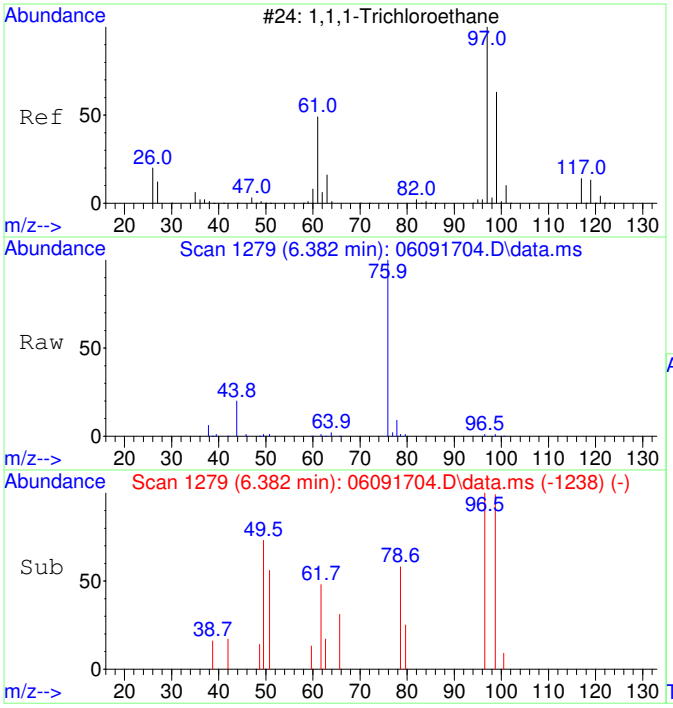


#30
Chloroform SCAN
Concen: 37.99 ug/L
RT: 6.150 min Scan# 1260
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 83 Resp: 1768

Ion	Ratio	Lower	Upper
83	100		
85	0.0	31.2	91.2#
47	0.0	3.2	63.2#

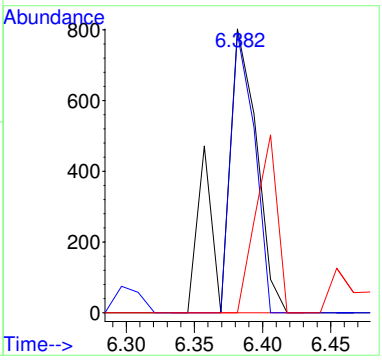


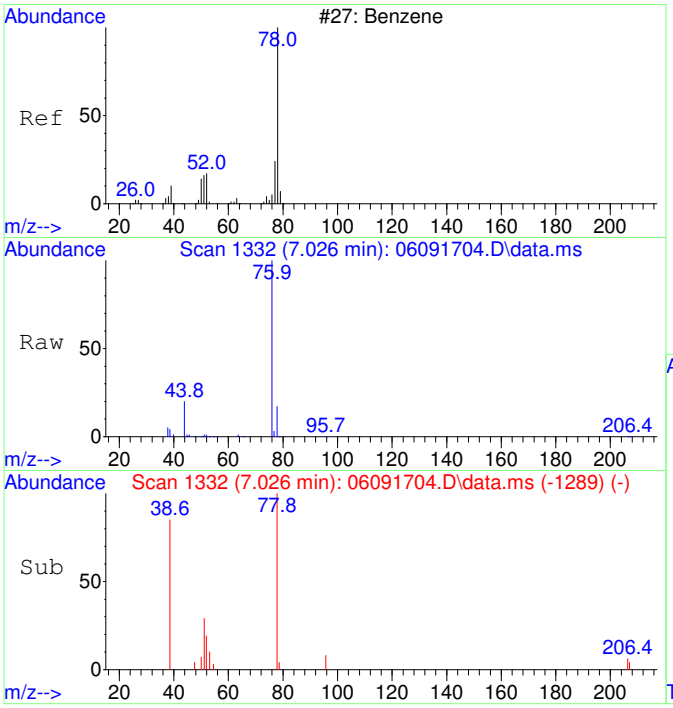


#31
1,1,1-Trichloroethane SCAN
Concen: 36.84 ug/L
RT: 6.382 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 1411

Ion	Ratio	Lower	Upper
97	100		
99	68.1	38.7	98.7
61	0.0	27.8	87.8#

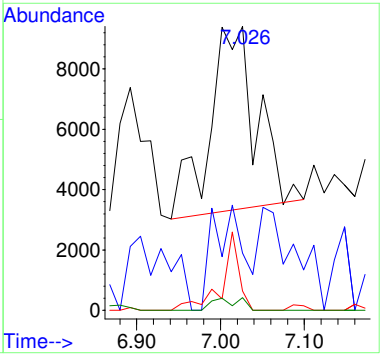


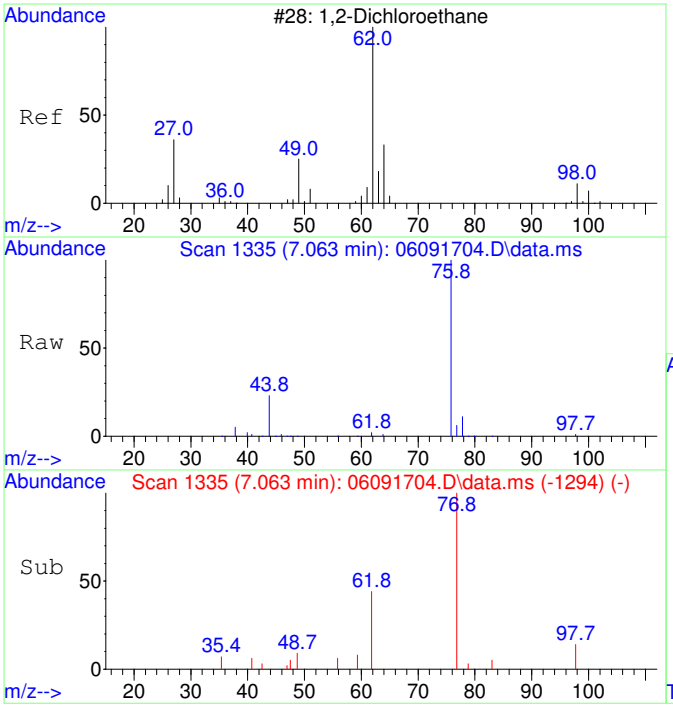


#33
Benzene SCAN
Concen: 225.89 ug/L
RT: 7.026 min Scan# 1332
Delta R.T. 0.024 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 78 Resp: 23827

Ion	Ratio	Lower	Upper
78	100		
77	26.8	0.0	55.2
51	15.4	0.0	52.4
52	4.0	0.0	53.3

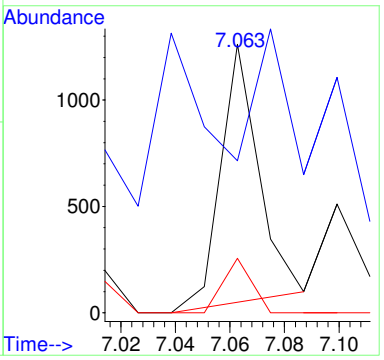


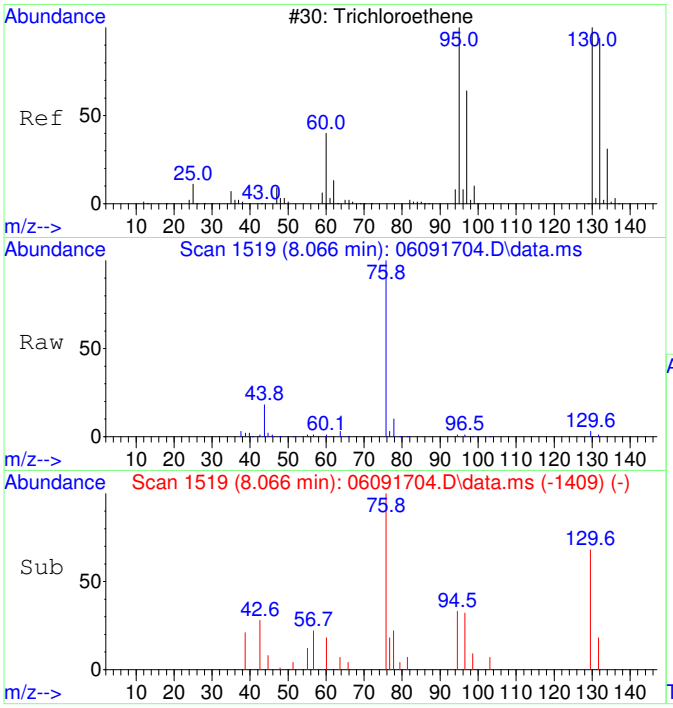


#34
1,2-Dichloroethane SCAN
Concen: 26.19 ug/L
RT: 7.063 min Scan# 1335
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 62 Resp: 1192

Ion	Ratio	Lower	Upper
62	100		
64	106.0	7.4	67.4#
49	15.7	0.0	54.8

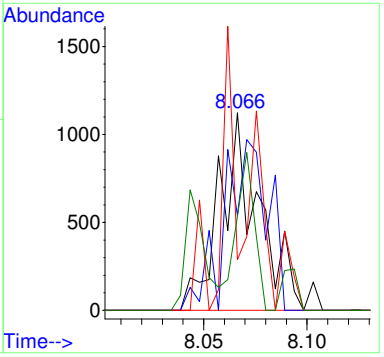


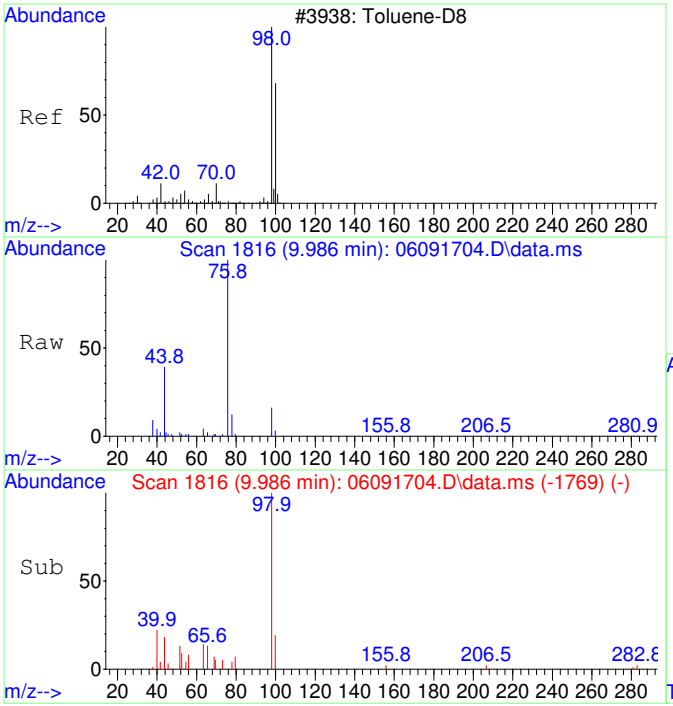


#35
Trichloroethene SCAN
Concen: 60.01 ug/L
RT: 8.066 min Scan# 1519
Delta R.T. 0.005 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:130 Resp: 1466

Ion	Ratio	Lower	Upper
130	100		
95	96.0	76.1	136.1
132	18.3	65.6	125.6#
97	31.9	41.8	101.8#

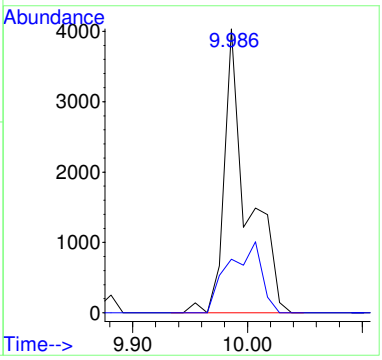


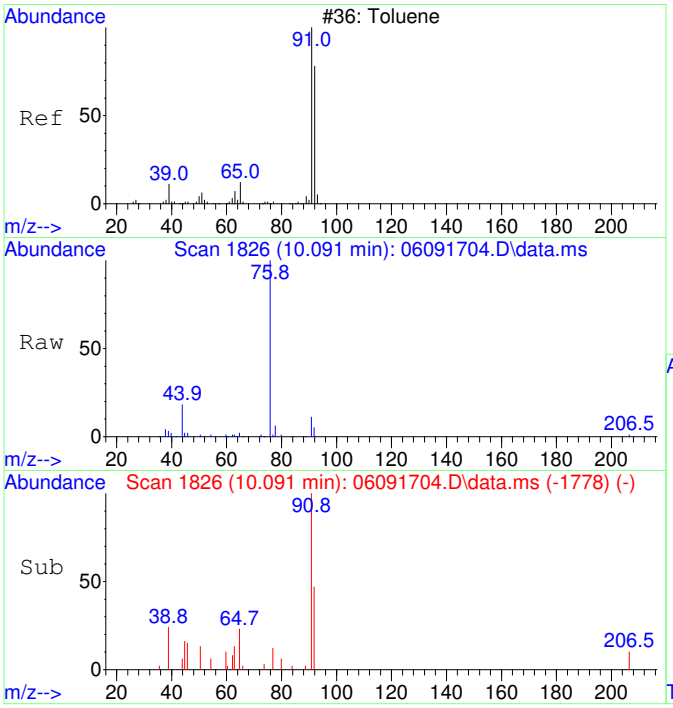


#36
Toluene-d8 SCAN
Concen: 69.64 ug/L
RT: 9.986 min Scan# 1816
Delta R.T. -0.010 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 98 Resp: 5727

Ion	Ratio	Lower	Upper
98	100		
100	0.0	36.2	96.2#

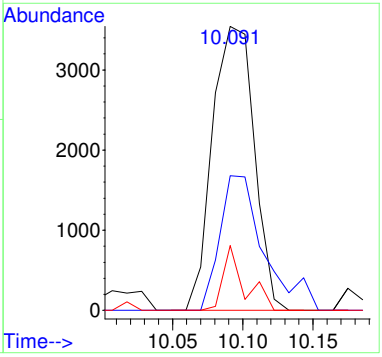


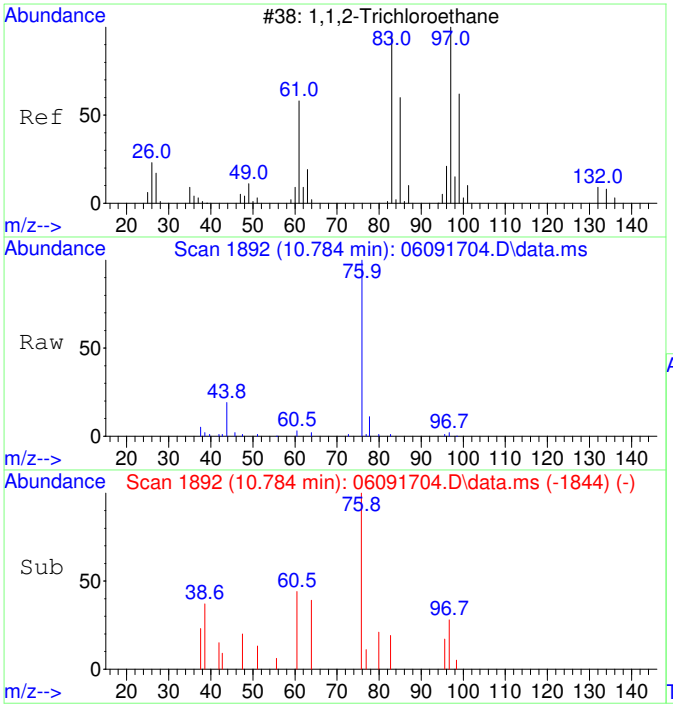


#37
Toluene SCAN
Concen: 67.30 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 7382

Ion	Ratio	Lower	Upper
91	100		
92	50.2	29.2	89.2
65	11.6	0.0	44.3

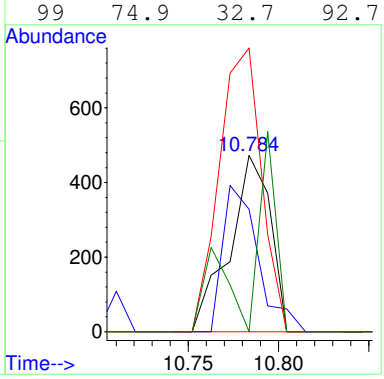


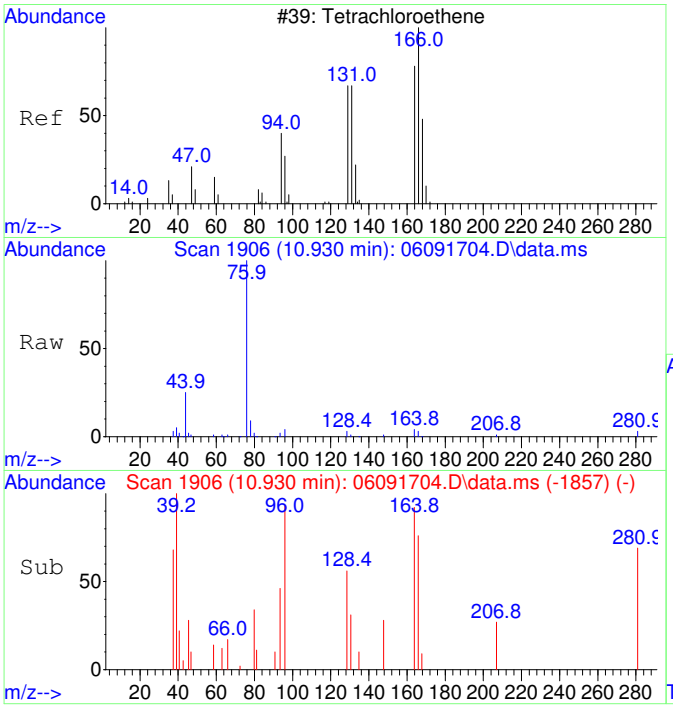


#38
1,1,2-Trichloroethane SCAN
Concen: 30.20 ug/L
RT: 10.784 min Scan# 1892
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 746

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.8	117.8#
61	166.2	48.6	108.6#
99	74.9	32.7	92.7

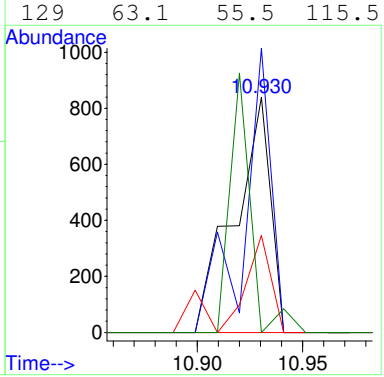


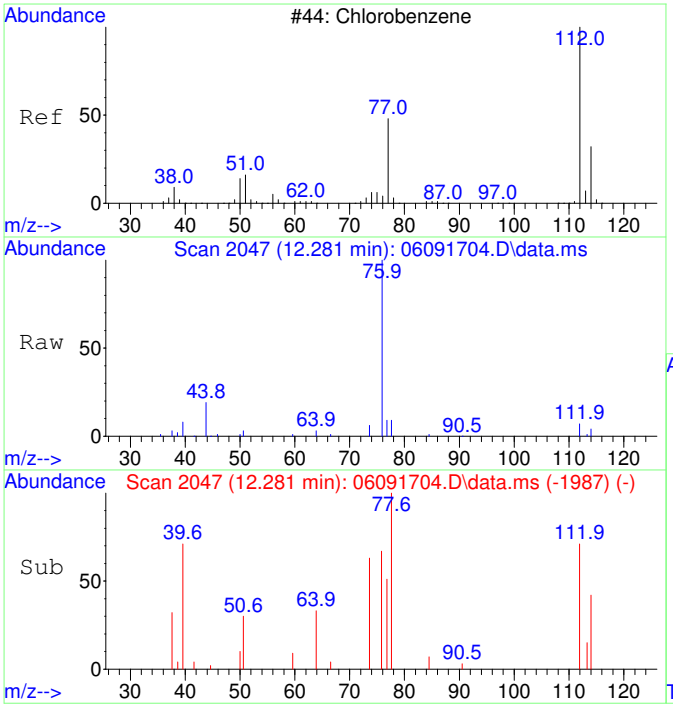


#39
Tetrachloroethene SCAN
Concen: 44.78 ug/L
RT: 10.930 min Scan# 1906
Delta R.T. 0.011 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:166 Resp: 1007

Ion	Ratio	Lower	Upper
166	100		
164	90.1	45.7	105.7
131	37.2	44.8	104.8#
129	63.1	55.5	115.5

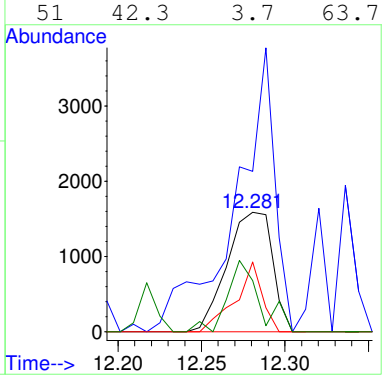


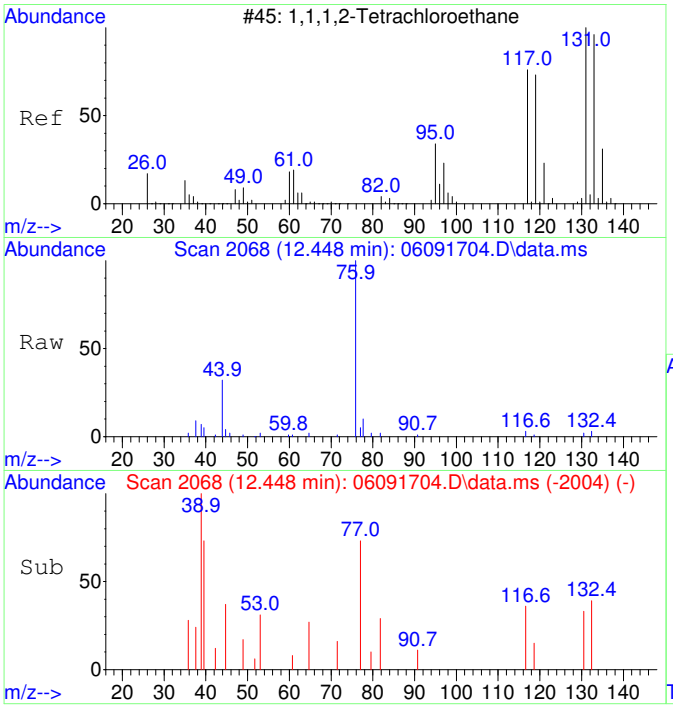


#40
Chlorobenzene SCAN
Concen: 44.80 ug/L
RT: 12.281 min Scan# 2047
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:112 Resp: 3018

Ion	Ratio	Lower	Upper
112	100		
77	205.1	35.1	95.1#
114	34.3	2.6	62.6
51	42.3	3.7	63.7

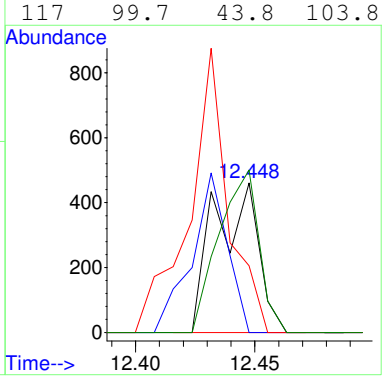


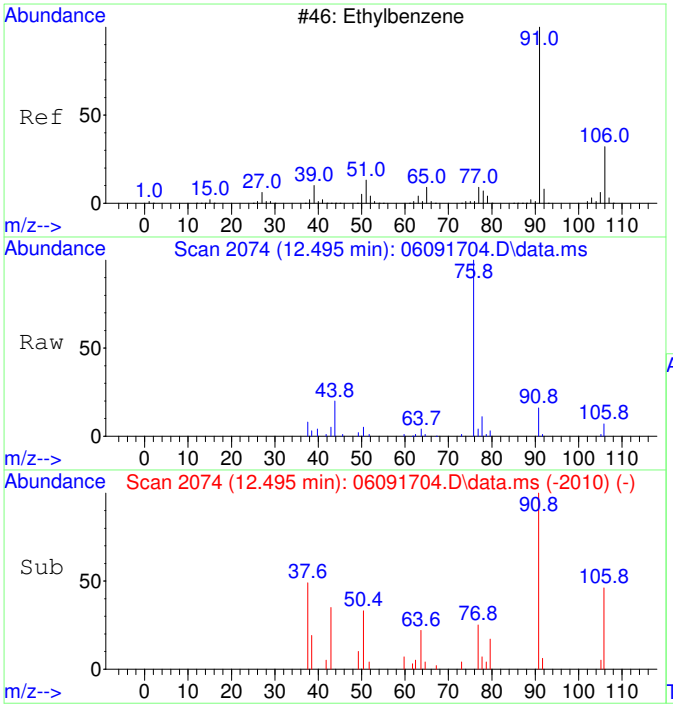


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 28.09 ug/L
RT: 12.448 min Scan# 2068
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:131 Resp: 589

Ion	Ratio	Lower	Upper
131	100		
133	85.9	63.5	123.5
119	168.3	38.0	98.0#
117	99.7	43.8	103.8

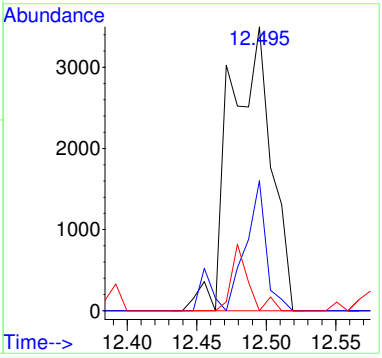


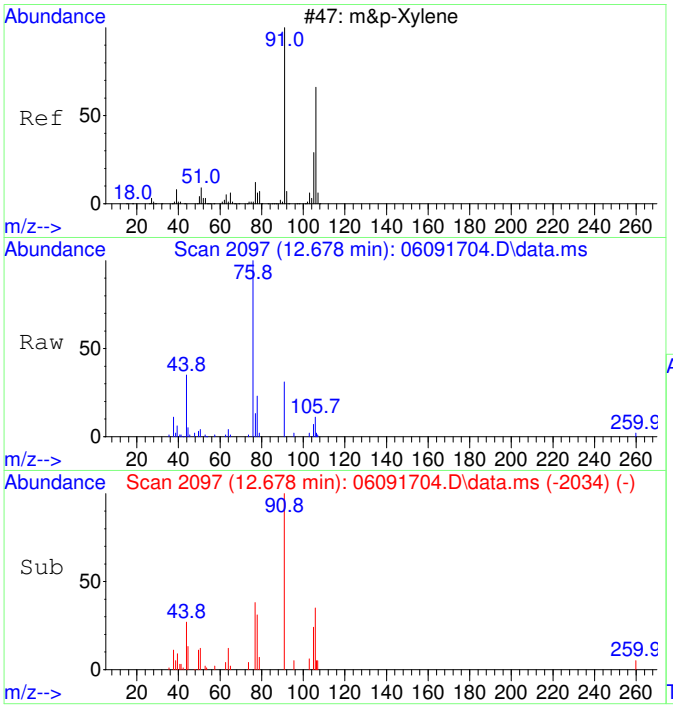


#42
Ethylbenzene SCAN
Concen: 58.77 ug/L
RT: 12.495 min Scan# 2074
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 7217

Ion	Ratio	Lower	Upper
91	100		
106	22.5	0.0	59.8
51	9.6	0.0	45.5

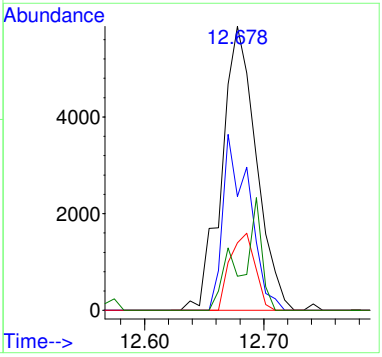


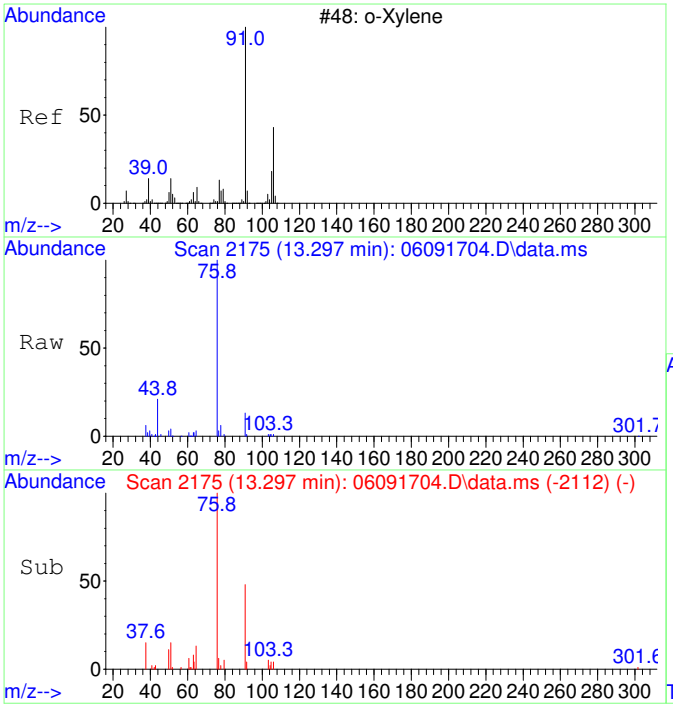


#43
m&p-Xylene SCAN
Concen: 61.87 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 11864

Ion	Ratio	Lower	Upper
91	100		
106	0.0	18.5	78.5#
105	19.8	0.0	51.3
51	23.9	0.0	45.7

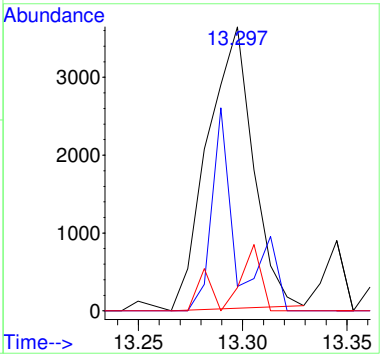


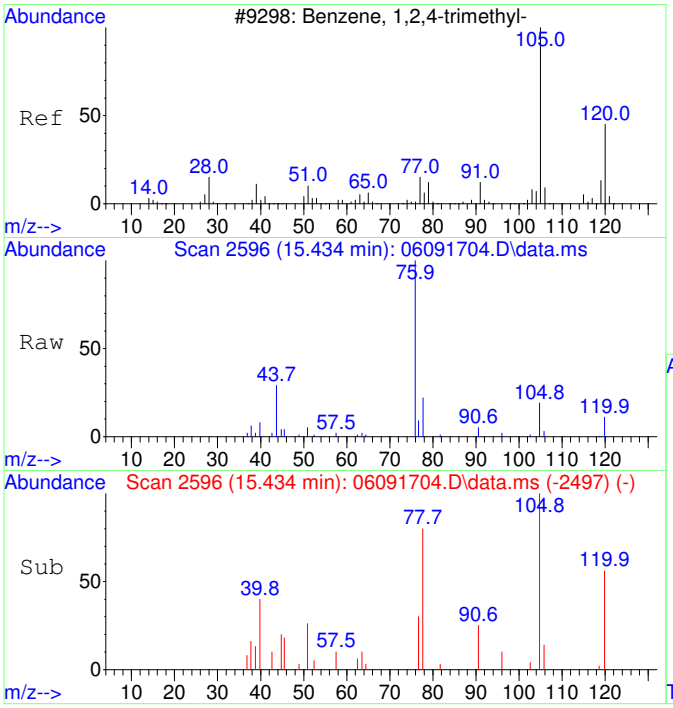


#44
o-Xylene SCAN
Concen: 55.75 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 5505

Ion	Ratio	Lower	Upper
91	100		
106	40.1	15.5	75.5
105	14.7	0.0	54.1

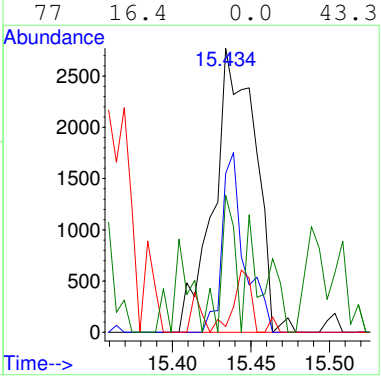


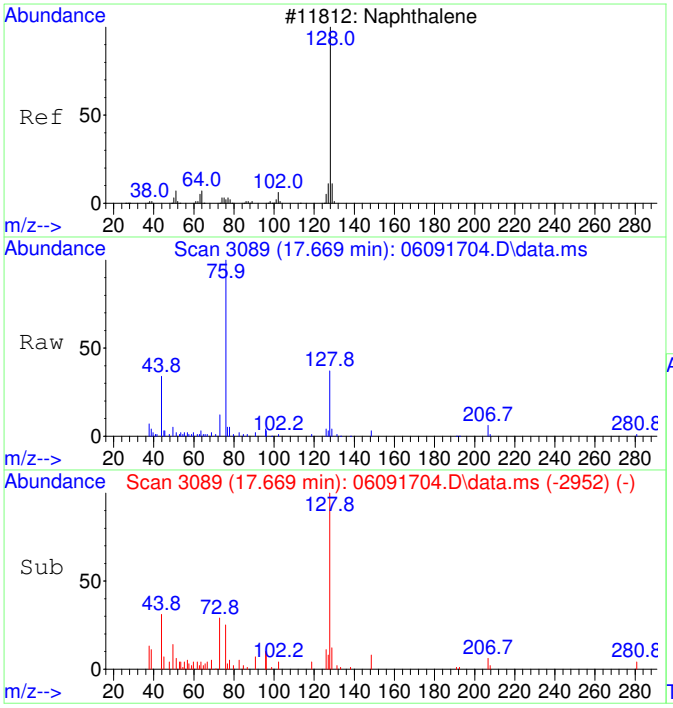


#47
1,2,4-Trimethylbenzene SCAN
Concen: 52.09 ug/L
RT: 15.434 min Scan# 2596
Delta R.T. -0.009 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:105 Resp: 5084

Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.9	72.9#
119	0.0	0.0	40.5
77	16.4	0.0	43.3

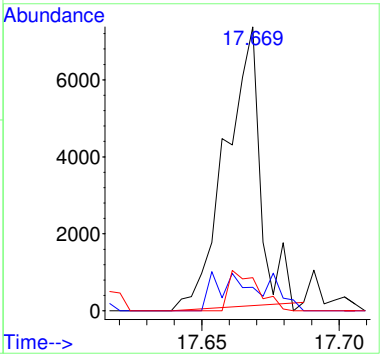




#48
Naphthalene SCAN
Concen: 47.01 ug/L
RT: 17.669 min Scan# 3089
Delta R.T. 0.009 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:128 Resp: 6328

Ion	Ratio	Lower	Upper
128	100		
127	19.4	0.0	43.9
129	12.3	0.0	41.0



S17F037-CRL2

QLS REPORT

Instrument Name: AG5975C
Sample Name: S17F037-CRL2
Misc Info: 1717061 0.15 mg/L Benzene only
Date Acquired: 6/9/17 12:07
QLast Update: Tue Jun 06 15:10:51 2017
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
9)	Benzene	6.991	150.0	179.92	120%	60	140	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091705.D
Acq On : 9 Jun 2017 12:07
InstName : AG5975C
Operator : RH
Sample : S17F037-CRL2
Misc : 1717061 0.15 mg/L Benzene only
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 09 13:50:31 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

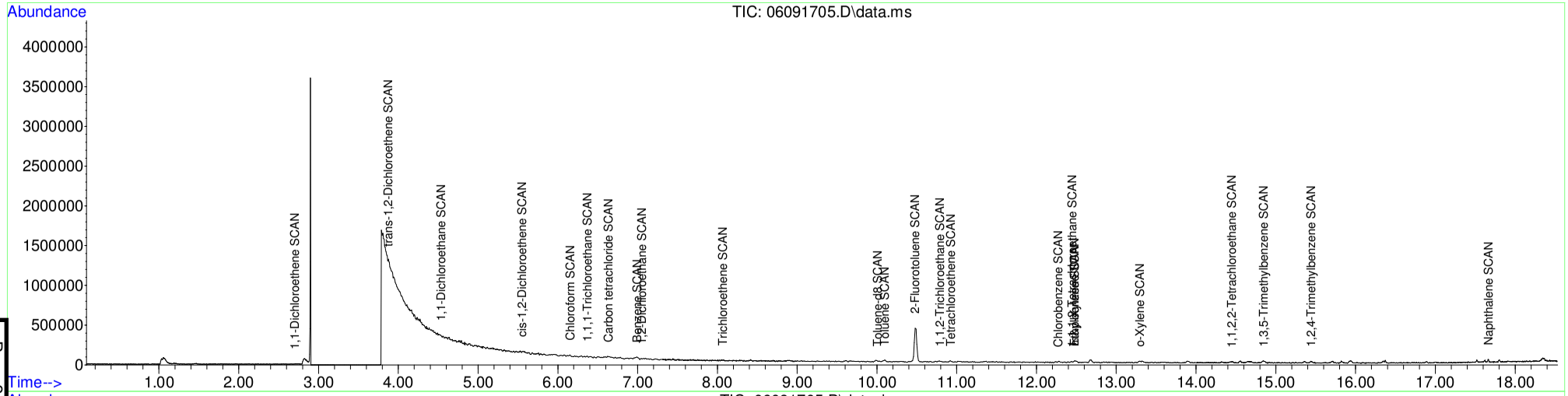
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.481	109	613718	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	9.987	98	15287	152.10	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 3.04%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	2.715	61	8789	181.58	ug/L	97
3] trans-1,2-Dichloroethene	3.849	61	8832	168.36	ug/L	90
4] 1,1-Dichloroethane	4.533	63	9443	167.00	ug/L	100
5] cis-1,2-Dichloroethene	5.555	61	8817	163.12	ug/L	100
6] Chloroform	6.140	83	8446	161.48	ug/L	100
7] 1,1,1-Trichloroethane	6.371	97	7465	155.40	ug/L	99
8] Carbon tetrachloride	6.626	117	6265	151.19	ug/L	97
9] Benzene	6.979	78	21915	179.92	ug/L	96
10] 1,2-Dichloroethane	7.052	62	7193	159.40	ug/L	95
11] Trichloroethene	8.058	130	4847	154.73	ug/L	99
13] Toluene	10.082	91	20663	155.25	ug/L	99
14] 1,1,2-Trichloroethane	10.774	97	4280	150.38	ug/L	98
15] Tetrachloroethene	10.921	166	5190	152.14	ug/L	99
16] Chlorobenzene	12.274	112	12950	153.17	ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.433	131	3983	143.53	ug/L	98
18] Ethylbenzene	12.481	91	21207	148.05	ug/L	99
19] m&p-Xylene	12.671	91	33050	294.12	ug/L	100
20] o-Xylene	13.291	91	17195	147.96	ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	7088	143.41	ug/L	99
22] 1,3,5-Trimethylbenzene	14.855	105	16289	141.96	ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	16546	140.66	ug/L	100
24] Naphthalene	17.662	128	26645	152.95	ug/L	99
25) 2-Fluorotoluene SCAN	10.479	109	347691	4672.70	ug/L	99
26) 1,1-Dichloroethene SCAN	2.702	61	866	27.66	ug/L	80
27) trans-1,2-Dichloroethe...	3.868	61	1982	59.32	ug/L #	30
28) 1,1-Dichloroethane SCAN	4.532	63	6300	165.38	ug/L #	46
29) cis-1,2-Dichloroethene...	5.553	61	4690	121.68	ug/L #	50
30) Chloroform SCAN	6.150	83	5720	164.58	ug/L	83
31) 1,1,1-Trichloroethane ...	6.369	97	5105	178.48	ug/L	89
32) Carbon tetrachloride SCAN	6.637	117	5384	204.48	ug/L	84
33) Benzene SCAN	6.990	78	23541	298.85	ug/L	96
34) 1,2-Dichloroethane SCAN	7.051	62	6101	179.50	ug/L #	46
35) Trichloroethene SCAN	8.066	130	747	40.95	ug/L #	67
36) Toluene-d8 SCAN	10.007	98	8265	134.59	ug/L	95
37) Toluene SCAN	10.091	91	15238	186.04	ug/L	95
38) 1,1,2-Trichloroethane ...	10.784	97	1731	93.84	ug/L #	24
39) Tetrachloroethene SCAN	10.920	166	1545	92.01	ug/L #	48
40) Chlorobenzene SCAN	12.273	112	7248	144.06	ug/L	92
41) 1,1,1,2-Tetrachloroeth...	12.440	131	1179	75.29	ug/L #	76
42) Ethylbenzene SCAN	12.479	91	14338	156.34	ug/L	85
43) m&p-Xylene SCAN	12.479	91	14338	100.13	ug/L	80
44) o-Xylene SCAN	13.290	91	11411	154.75	ug/L	86
45) 1,1,2,2-Tetrachloroeth...	14.438	83	5108	153.14	ug/L	72
46) 1,3,5-Trimethylbenzene...	14.848	105	8792	125.70	ug/L	75
47) 1,2,4-Trimethylbenzene...	15.439	105	9250	126.91	ug/L	91
48) Naphthalene SCAN	17.665	128	13064	129.96	ug/L	91

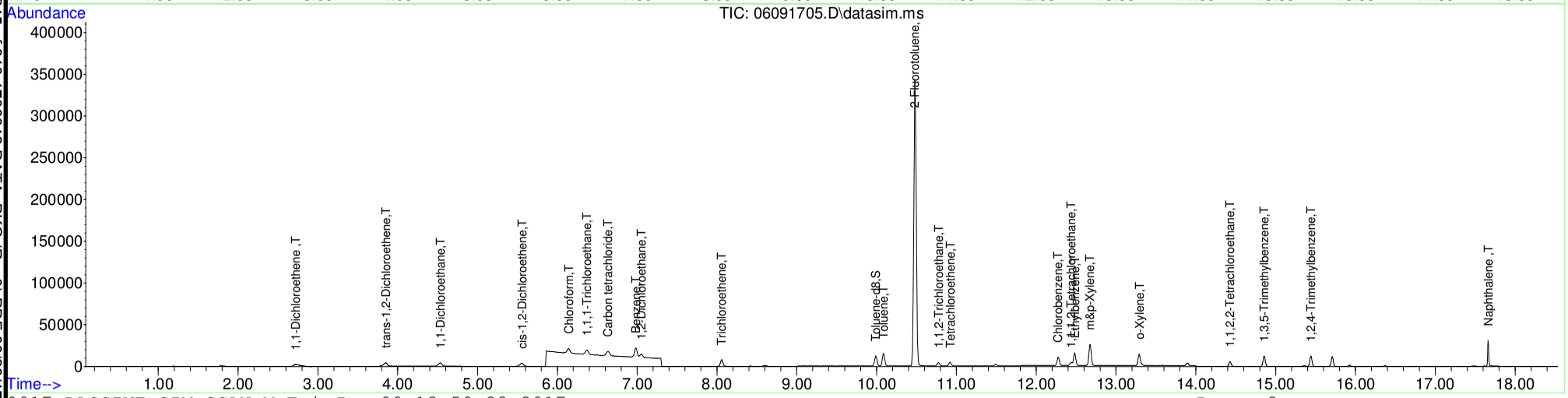
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091705.D
Acq On : 9 Jun 2017 12:07
InstName : AG5975C
Operator : RH
Sample : S17F037-CRL2
Misc : 1717061 0.15 mg/L Benzene only
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 09 13:50:31 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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B17F042-BLK1

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091706.D
Acq On : 9 Jun 2017 12:31
InstName : AG5975C
Operator : RH
Sample : B17F042-BLK1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 09 12:58:33 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

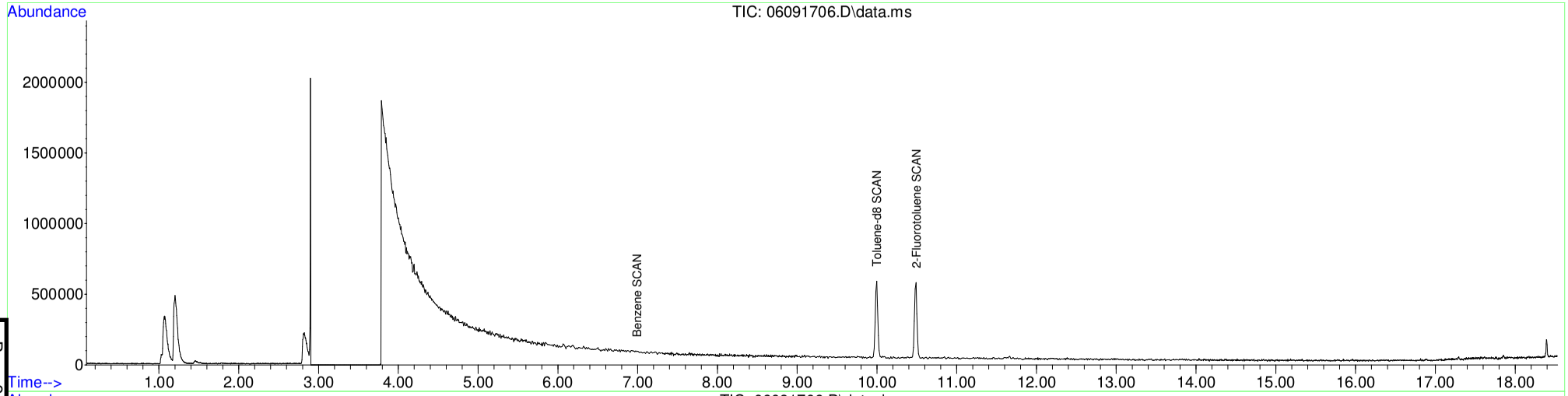
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.480	109	774322	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	9.987	98	662846	5227.09	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.54%			
Target Compounds						Qvalue
9] Benzene	6.991	78	3894	25.34	ug/L	81
25) 2-Fluorotoluene SCAN	10.490	109	429393	4573.79	ug/L	96
33) Benzene SCAN	6.990	78	4659	46.88	ug/L #	1
36) Toluene-d8 SCAN	9.996	98	410863	5302.75	ug/L	94

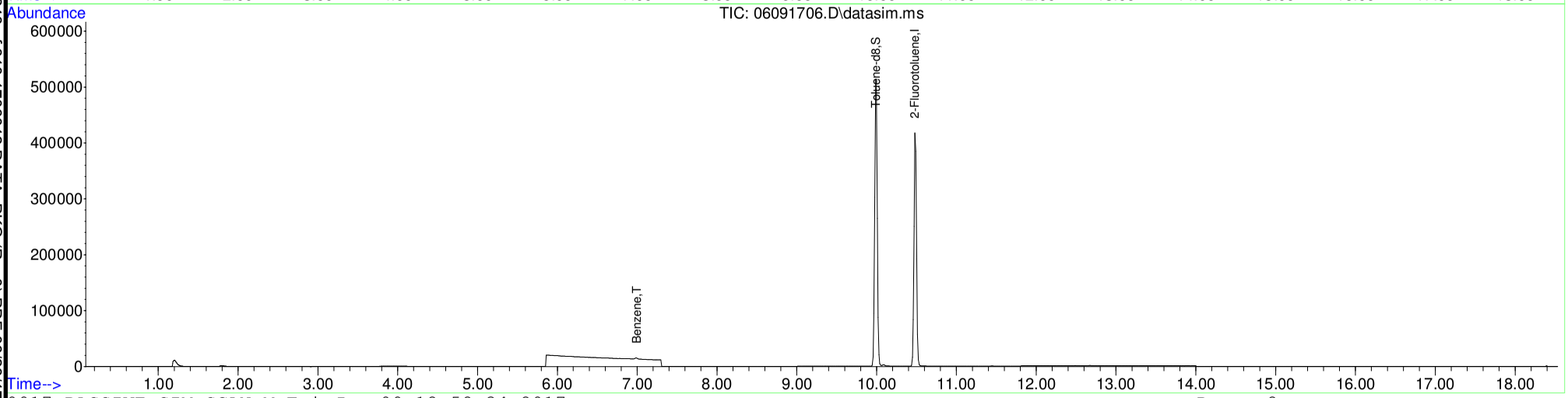
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091706.D
Acq On : 9 Jun 2017 12:31
InstName : AG5975C
Operator : RH
Sample : B17F042-BLK1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 09 12:58:33 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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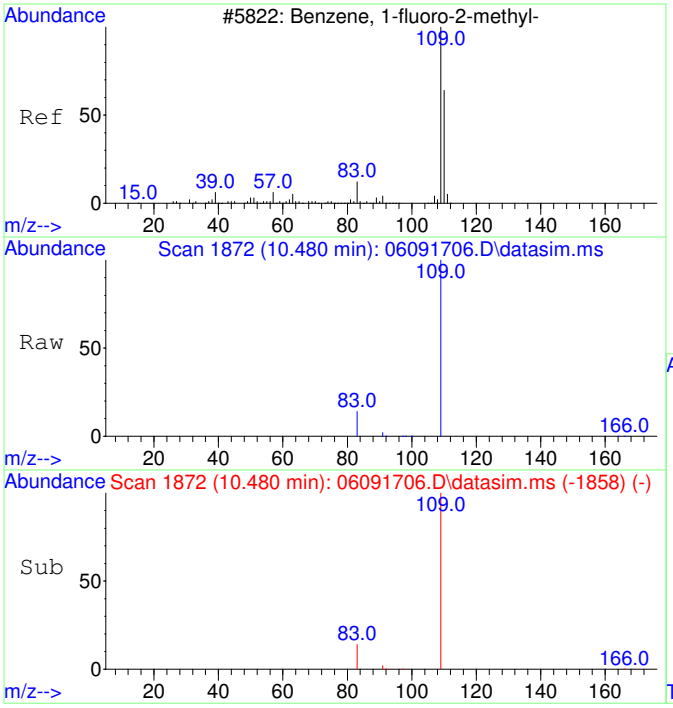
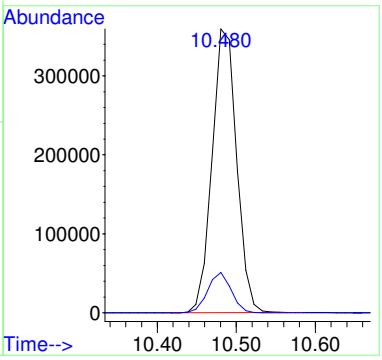
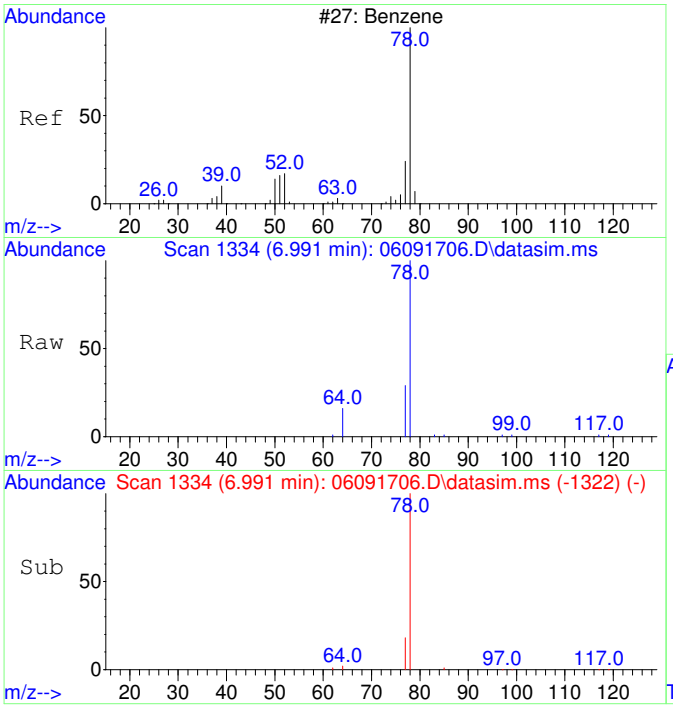


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06091706.D
Acq: 9 Jun 2017 12:31

Tgt Ion:109 Resp: 774322

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.4

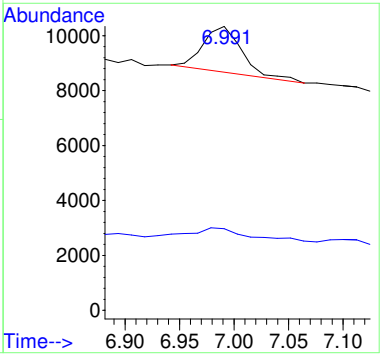


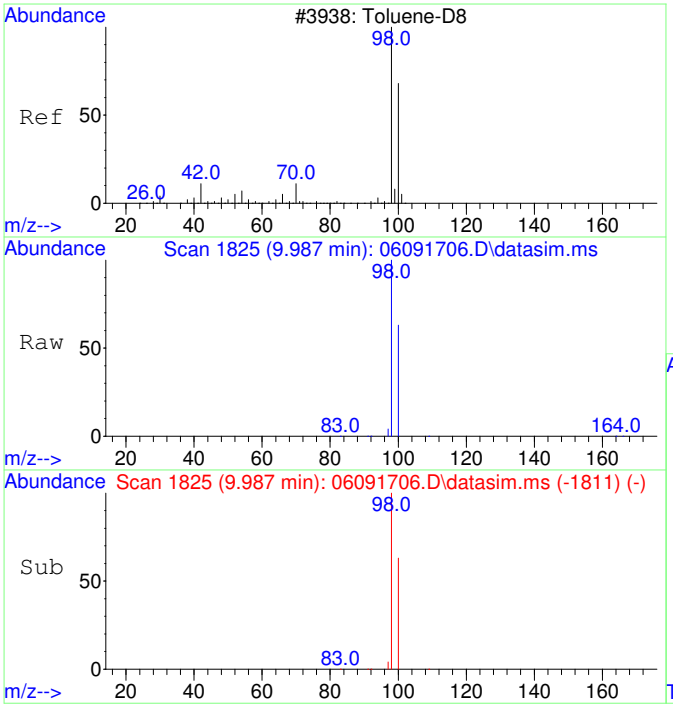


#9
Benzene
Concen: 25.34 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06091706.D
Acq: 9 Jun 2017 12:31

Tgt Ion: 78 Resp: 3894

Ion	Ratio	Lower	Upper
78	100		
77	13.7	0.0	53.0

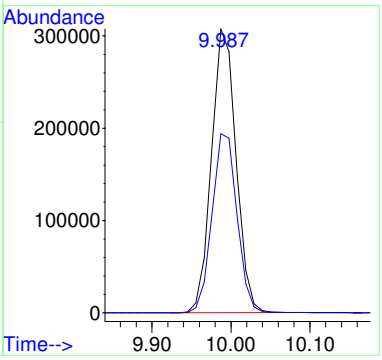


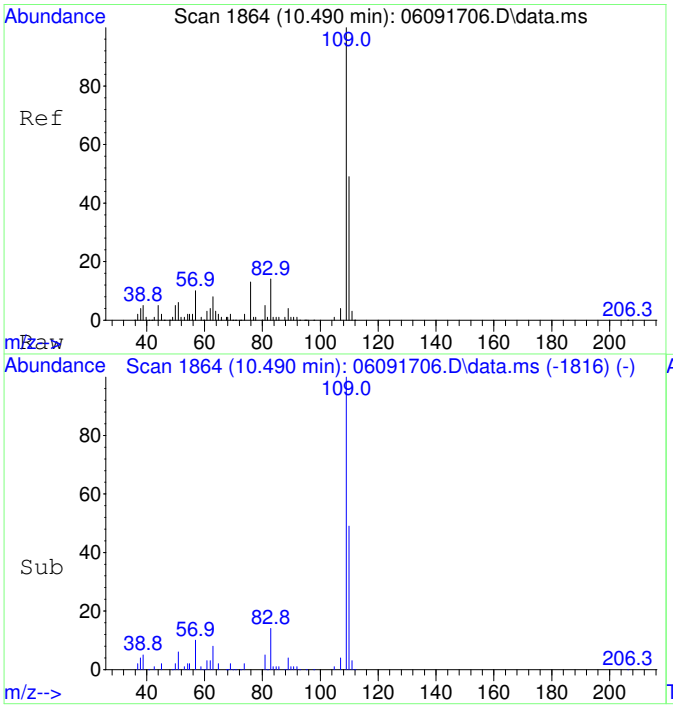


#12
Toluene-d8
Concen: 5227.09 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. 0.000 min
Lab File: 06091706.D
Acq: 9 Jun 2017 12:31

Tgt Ion: 98 Resp: 662846

Ion	Ratio	Lower	Upper
98	100		
100	63.9	34.2	94.2

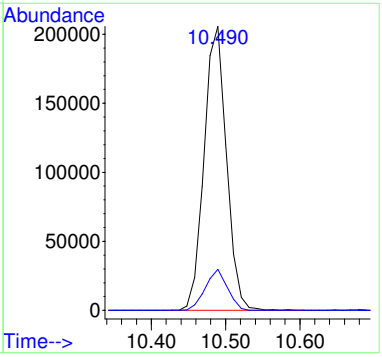


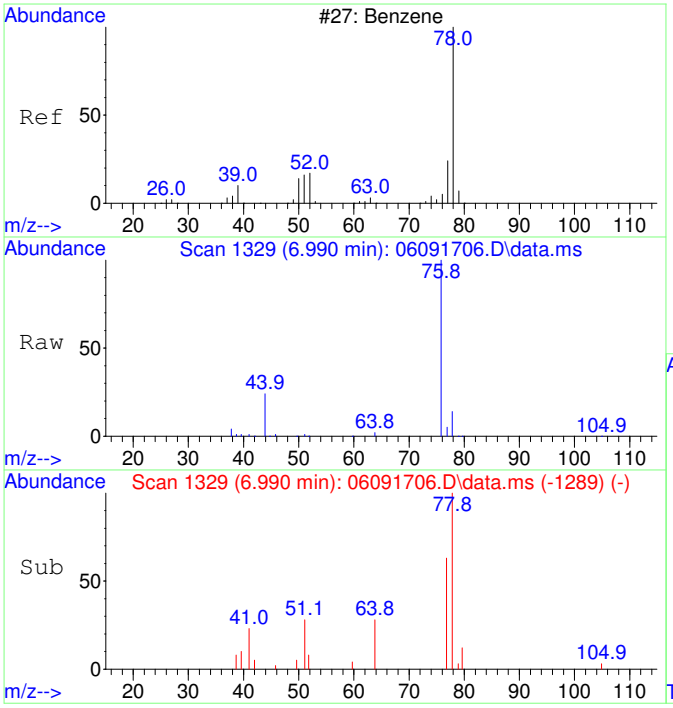


#25
2-Fluorotoluene SCAN
Concen: 4573.79 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. 0.000 min
Lab File: 06091706.D
Acq: 9 Jun 2017 12:31

Tgt Ion:109 Resp: 429393

Ion	Ratio	Lower	Upper
109	100		
83	14.2	0.0	46.1

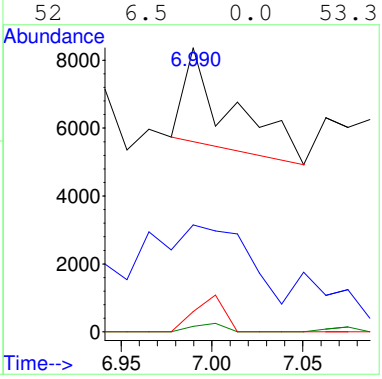


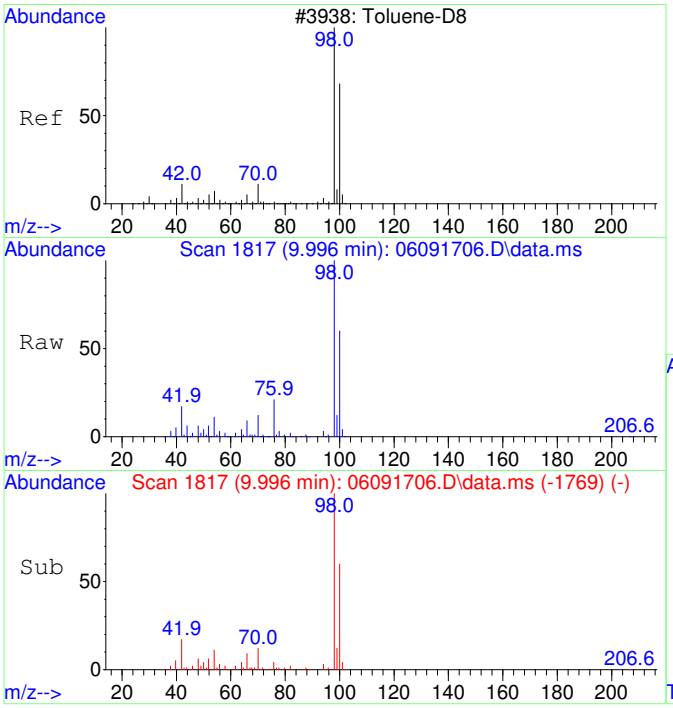


#33
Benzene SCAN
Concen: 46.88 ug/L
RT: 6.990 min Scan# 1329
Delta R.T. -0.012 min
Lab File: 06091706.D
Acq: 9 Jun 2017 12:31

Tgt Ion: 78 Resp: 4659

Ion	Ratio	Lower	Upper
78	100		
77	287.0	0.0	55.2#
51	26.4	0.0	52.4
52	6.5	0.0	53.3

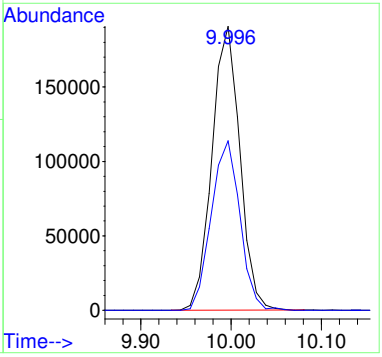




#36
Toluene-d8 SCAN
Concen: 5302.75 ug/L
RT: 9.996 min Scan# 1817
Delta R.T. 0.000 min
Lab File: 06091706.D
Acq: 9 Jun 2017 12:31

Tgt Ion: 98 Resp: 410863

Ion	Ratio	Lower	Upper
98	100		
100	61.3	36.2	96.2



B17F042-BS1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091707.D
Acq On : 9 Jun 2017 12:55
InstName : AG5975C
Operator : RH
Sample : B17F042-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 09 13:53:37 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

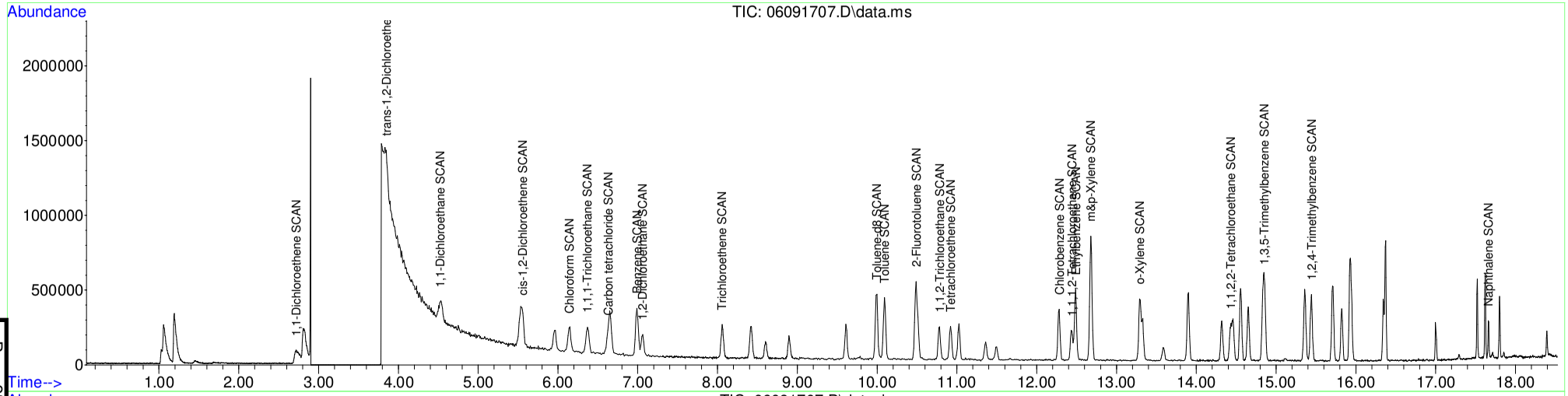
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.480	109	625895	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	534267	5212.26 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.25%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.715	61	239750	4856.96 ug/L	100
3] trans-1,2-Dichloroethene	3.843	61	251094	4693.28 ug/L	100
4] 1,1-Dichloroethane	4.526	63	282480	4898.34 ug/L	100
5] cis-1,2-Dichloroethene	5.555	61	261670	4746.94 ug/L	100
6] Chloroform	6.140	83	241460	4526.73 ug/L	100
7] 1,1,1-Trichloroethane	6.371	97	215125	4391.22 ug/L	100
8] Carbon tetrachloride	6.626	117	178245	4217.75 ug/L	100
9] Benzene	6.979	78	501293	4035.54 ug/L	100
10] 1,2-Dichloroethane	7.052	62	208142	4522.71 ug/L	100
11] Trichloroethene	8.058	130	133666	4184.05 ug/L	99
13] Toluene	10.082	91	521567	3842.41 ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	117940	4063.20 ug/L	100
15] Tetrachloroethene	10.921	166	135493	3894.45 ug/L	100
16] Chlorobenzene	12.274	112	323598	3753.11 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.433	131	112968	3991.76 ug/L	99
18] Ethylbenzene	12.481	91	604701	4139.40 ug/L	100
19] m&p-Xylene	12.679	91	926407	8083.83 ug/L	100
20] o-Xylene	13.291	91	451362	3808.34 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	192561	3820.17 ug/L	100
22] 1,3,5-Trimethylbenzene	14.854	105	497160	4248.39 ug/L	100
23] 1,2,4-Trimethylbenzene	15.440	105	482861	4024.91 ug/L	100
24] Naphthalene	17.662	128	188483	1060.88 ug/L	100
25) 2-Fluorotoluene SCAN	10.490	109	372723	4911.65 ug/L	97
26) 1,1-Dichloroethene SCAN	2.721	61	170199	5330.60 ug/L	88
27) trans-1,2-Dichloroethe...	3.848	61	166411	4883.76 ug/L	95
28) 1,1-Dichloroethane SCAN	4.525	63	200747	5167.38 ug/L	97
29) cis-1,2-Dichloroethene...	5.553	61	173465	4413.01 ug/L	94
30) Chloroform SCAN	6.138	83	164969	4654.18 ug/L	95
31) 1,1,1-Trichloroethane ...	6.369	97	137514	4714.28 ug/L	98
32) Carbon tetrachloride SCAN	6.625	117	97611	3635.02 ug/L	91
33) Benzene SCAN	6.990	78	331162	4122.27 ug/L	94
34) 1,2-Dichloroethane SCAN	7.063	62	149318	4307.69 ug/L	96
35) Trichloroethene SCAN	8.057	130	69261	3722.97 ug/L	92
36) Toluene-d8 SCAN	9.996	98	325128	5191.33 ug/L	99
37) Toluene SCAN	10.091	91	334856	4008.71 ug/L	99
38) 1,1,2-Trichloroethane ...	10.784	97	76789	4081.71 ug/L	96
39) Tetrachloroethene SCAN	10.920	166	70467	4114.89 ug/L	97
40) Chlorobenzene SCAN	12.281	112	188980	3683.07 ug/L	96
41) 1,1,1,2-Tetrachloroeth...	12.440	131	61931	3878.12 ug/L	98
42) Ethylbenzene SCAN	12.487	91	381869	4082.77 ug/L	97
43) m&p-Xylene SCAN	12.678	91	537511	3680.72 ug/L	99
44) o-Xylene SCAN	13.290	91	276585	3678.02 ug/L	97
45) 1,1,2,2-Tetrachloroeth...	14.434	83	126547	3720.11 ug/L	99
46) 1,3,5-Trimethylbenzene...	14.853	105	280963	3938.86 ug/L	99
47) 1,2,4-Trimethylbenzene...	15.444	105	264978	3564.70 ug/L	99
48) Naphthalene SCAN	17.661	128	96488	941.17 ug/L	98

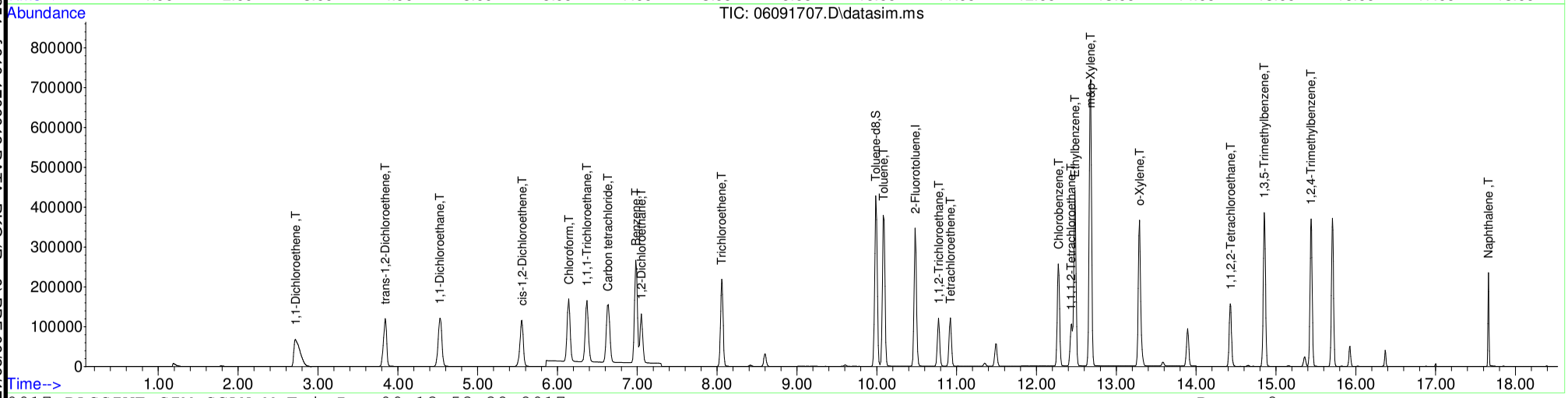
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091707.D
Acq On : 9 Jun 2017 12:55
InstName : AG5975C
Operator : RH
Sample : B17F042-BS1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 09 13:53:37 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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B17F042-BSD1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091708.D
Acq On : 9 Jun 2017 13:19
InstName : AG5975C
Operator : RH
Sample : B17F042-BSD1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 09 13:53:43 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

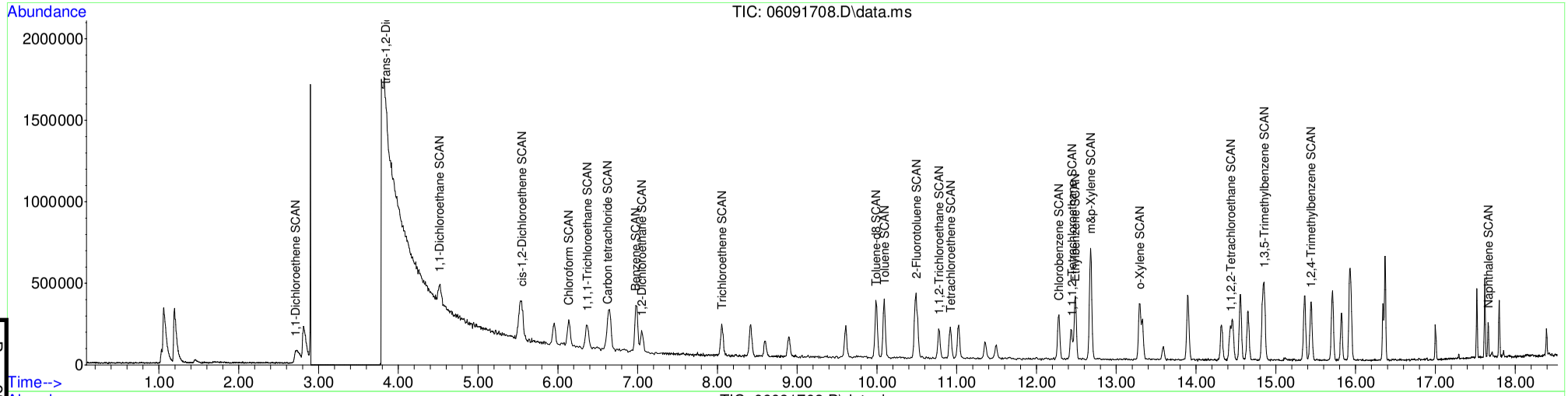
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.481	109	503674	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	430855	5223.37 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 104.47%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.722	61	220640	5554.46 ug/L	100
3] trans-1,2-Dichloroethene	3.830	61	228807	5314.48 ug/L	100
4] 1,1-Dichloroethane	4.520	63	256887	5535.48 ug/L	100
5] cis-1,2-Dichloroethene	5.548	61	236650	5334.80 ug/L	100
6] Chloroform	6.127	83	216807	5050.85 ug/L	99
7] 1,1,1-Trichloroethane	6.359	97	194168	4925.20 ug/L	100
8] Carbon tetrachloride	6.626	117	160478	4718.80 ug/L	100
9] Benzene	6.979	78	449861	4500.29 ug/L	100
10] 1,2-Dichloroethane	7.040	62	186860	5045.53 ug/L	99
11] Trichloroethene	8.054	130	119142	4634.39 ug/L	99
13] Toluene	10.082	91	454314	4159.12 ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	102625	4393.51 ug/L	99
15] Tetrachloroethene	10.921	166	117586	4199.88 ug/L	99
16] Chlorobenzene	12.274	112	275661	3972.94 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.433	131	95997	4215.20 ug/L	100
18] Ethylbenzene	12.481	91	514222	4374.20 ug/L	100
19] m&p-Xylene	12.671	91	784027	8501.56 ug/L	100
20] o-Xylene	13.291	91	379447	3978.45 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	161196	3973.94 ug/L	100
22] 1,3,5-Trimethylbenzene	14.855	105	413380	4389.65 ug/L	100
23] 1,2,4-Trimethylbenzene	15.440	105	399515	4138.27 ug/L	100
24] Naphthalene	17.662	128	157218	1099.63 ug/L	100
25) 2-Fluorotoluene SCAN	10.490	109	288722	4727.96 ug/L	98
26) 1,1-Dichloroethene SCAN	2.710	61	151271	5887.44 ug/L #	44
27) trans-1,2-Dichloroethe...	3.842	61	148671	5421.89 ug/L	99
28) 1,1-Dichloroethane SCAN	4.512	63	178334	5704.36 ug/L	94
29) cis-1,2-Dichloroethene...	5.547	61	155809	4925.69 ug/L	94
30) Chloroform SCAN	6.138	83	142455	4994.26 ug/L	90
31) 1,1,1-Trichloroethane ...	6.369	97	125912	5363.98 ug/L	94
32) Carbon tetrachloride SCAN	6.625	117	102253	4731.90 ug/L	97
33) Benzene SCAN	6.978	78	293398	4538.42 ug/L	98
34) 1,2-Dichloroethane SCAN	7.051	62	136681	4899.96 ug/L	95
35) Trichloroethene SCAN	8.053	130	66632	4450.78 ug/L	94
36) Toluene-d8 SCAN	9.986	98	253736	5034.52 ug/L	96
37) Toluene SCAN	10.091	91	274774	4087.65 ug/L	98
38) 1,1,2-Trichloroethane ...	10.773	97	63256	4178.27 ug/L	95
39) Tetrachloroethene SCAN	10.920	166	64723	4696.60 ug/L	91
40) Chlorobenzene SCAN	12.281	112	149644	3624.14 ug/L	95
41) 1,1,1,2-Tetrachloroeth...	12.440	131	54606	4249.18 ug/L	94
42) Ethylbenzene SCAN	12.487	91	311837	4143.05 ug/L	97
43) m&p-Xylene SCAN	12.678	91	467163	3975.27 ug/L	97
44) o-Xylene SCAN	13.290	91	232021	3834.11 ug/L	98
45) 1,1,2,2-Tetrachloroeth...	14.431	83	105385	3849.77 ug/L	97
46) 1,3,5-Trimethylbenzene...	14.853	105	231925	4040.36 ug/L	99
47) 1,2,4-Trimethylbenzene...	15.439	105	225683	3772.81 ug/L	98
48) Naphthalene SCAN	17.661	128	75638	916.82 ug/L	97

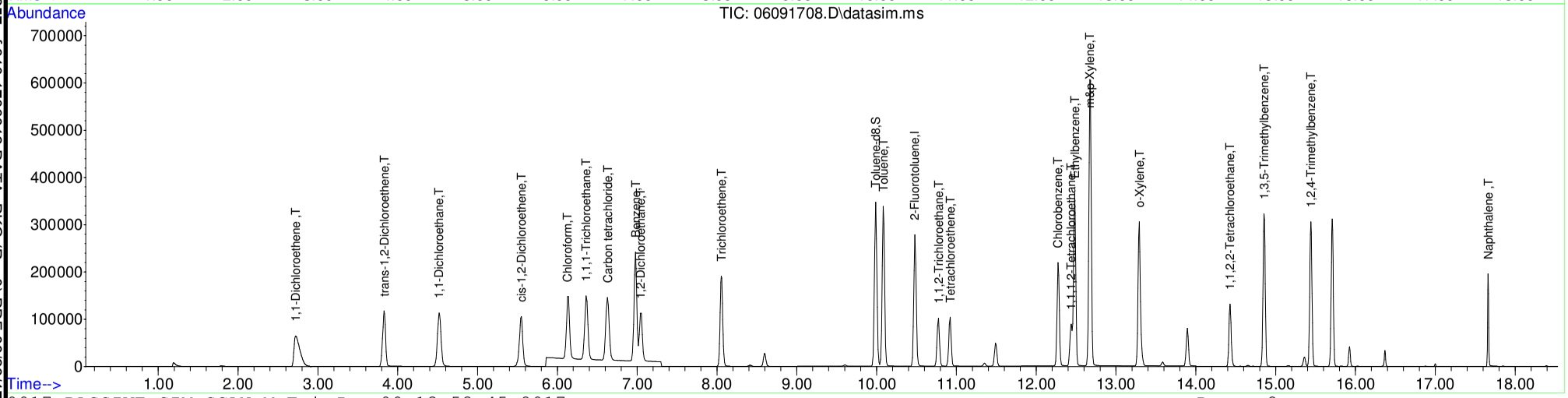
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091708.D
Acq On : 9 Jun 2017 13:19
InstName : AG5975C
Operator : RH
Sample : B17F042-BSD1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 09 13:53:43 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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1706012-01

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091709.D
Acq On : 9 Jun 2017 13:42
InstName : AG5975C
Operator : RH
Sample : 1706012-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 09 14:30:23 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

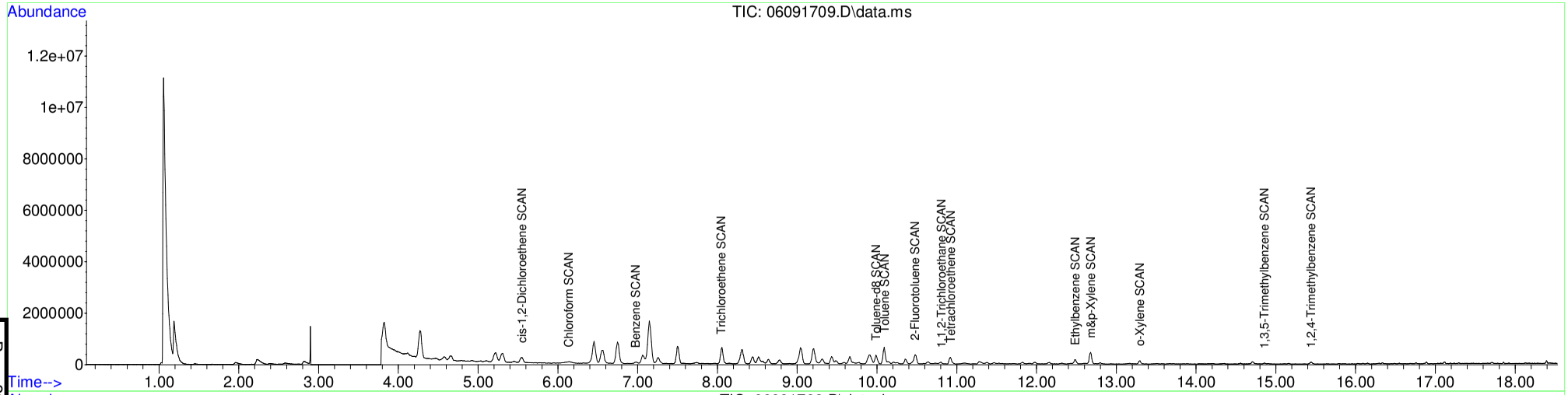
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.480	109	504155	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	428877	5194.43 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.89%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.711	61	967	24.32 ug/L #	26
3] trans-1,2-Dichloroethene	3.823	61	12801	297.04 ug/L	68
5] cis-1,2-Dichloroethene	5.541	61	263745	5939.93 ug/L	100
6] Chloroform	6.127	83	51016	1187.36 ug/L	87
8] Carbon tetrachloride	6.614	117	1044	30.67 ug/L	100
9] Benzene	6.979	78	85868	858.18 ug/L	97
11] Trichloroethene	8.054	130	387249	15048.86 ug/L	99
13] Toluene	10.081	91	808517	7394.69 ug/L	100
14] 1,1,2-Trichloroethane	10.795	97	2754	117.79 ug/L #	52
15] Tetrachloroethene	10.921	166	154440	5510.95 ug/L	100
18] Ethylbenzene	12.480	91	191928	1631.07 ug/L	100
19] m&p-Xylene	12.671	91	471304	5105.69 ug/L	100
20] o-Xylene	13.290	91	131393	1376.32 ug/L	100
22] 1,3,5-Trimethylbenzene	14.853	105	32697	346.88 ug/L	100
23] 1,2,4-Trimethylbenzene	15.439	105	80250	830.46 ug/L	99
25) 2-Fluorotoluene SCAN	10.479	109	283162	4632.48 ug/L	95
29) cis-1,2-Dichloroethene...	5.553	61	182205	5754.67 ug/L	88
30) Chloroform SCAN	6.138	83	33174	1161.92 ug/L	85
33) Benzene SCAN	6.977	78	64746	1000.57 ug/L	94
35) Trichloroethene SCAN	8.048	130	213166	14225.13 ug/L	96
36) Toluene-d8 SCAN	9.986	98	263992	5233.02 ug/L	96
37) Toluene SCAN	10.090	91	500524	7438.90 ug/L	97
38) 1,1,2-Trichloroethane ...	10.804	97	1856	122.48 ug/L #	37
39) Tetrachloroethene SCAN	10.919	166	77064	5586.78 ug/L	96
42) Ethylbenzene SCAN	12.487	91	123262	1636.09 ug/L	98
43) m&p-Xylene SCAN	12.677	91	283653	2411.41 ug/L	99
44) o-Xylene SCAN	13.297	91	81864	1351.50 ug/L	97
46) 1,3,5-Trimethylbenzene...	14.857	105	19998	348.05 ug/L	94
47) 1,2,4-Trimethylbenzene...	15.437	105	45574	761.15 ug/L	93

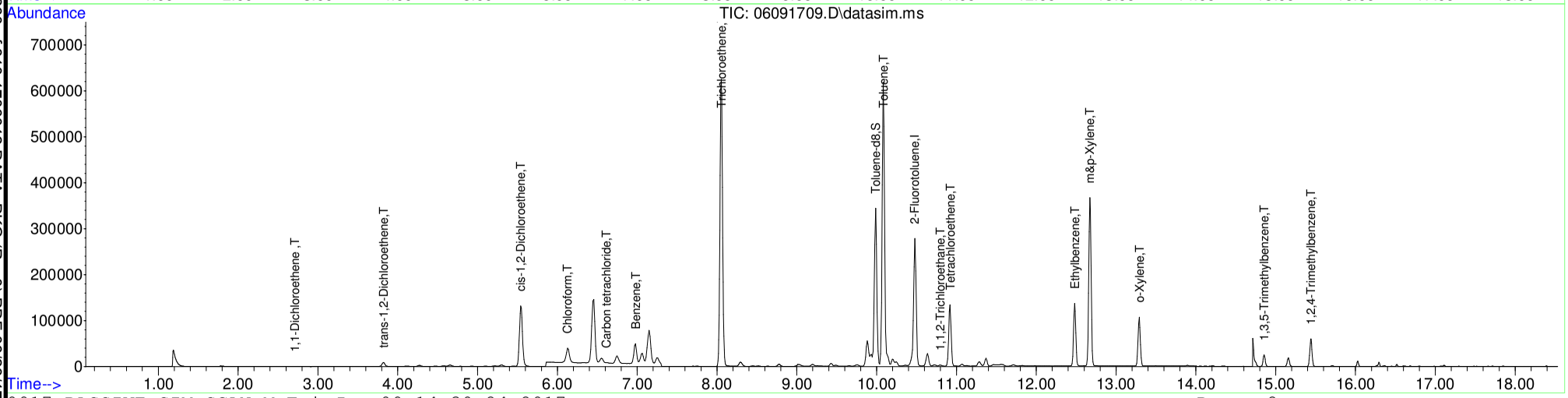
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091709.D
Acq On : 9 Jun 2017 13:42
InstName : AG5975C
Operator : RH
Sample : 1706012-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 09 14:30:23 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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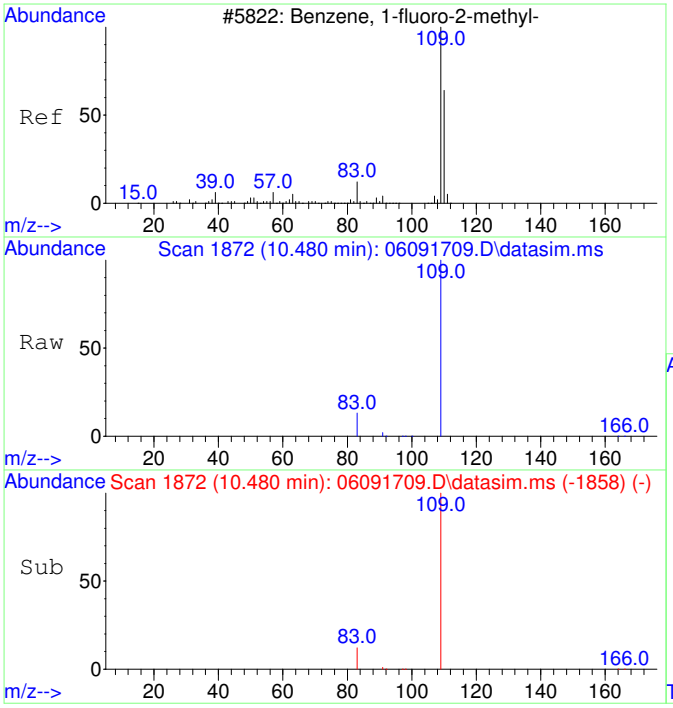
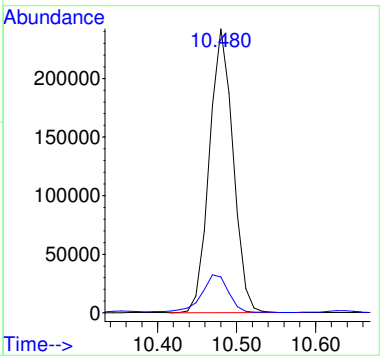
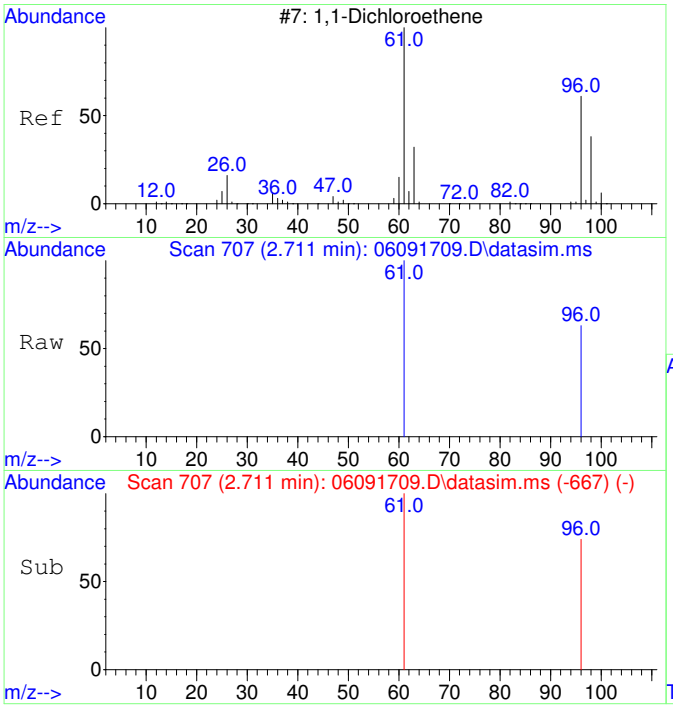


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion:109 Resp: 504155

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	44.4

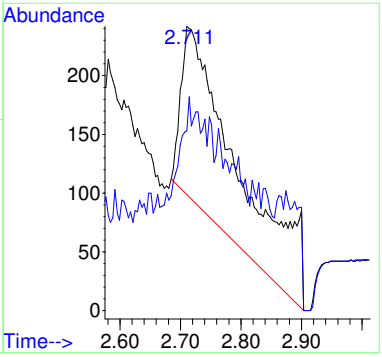


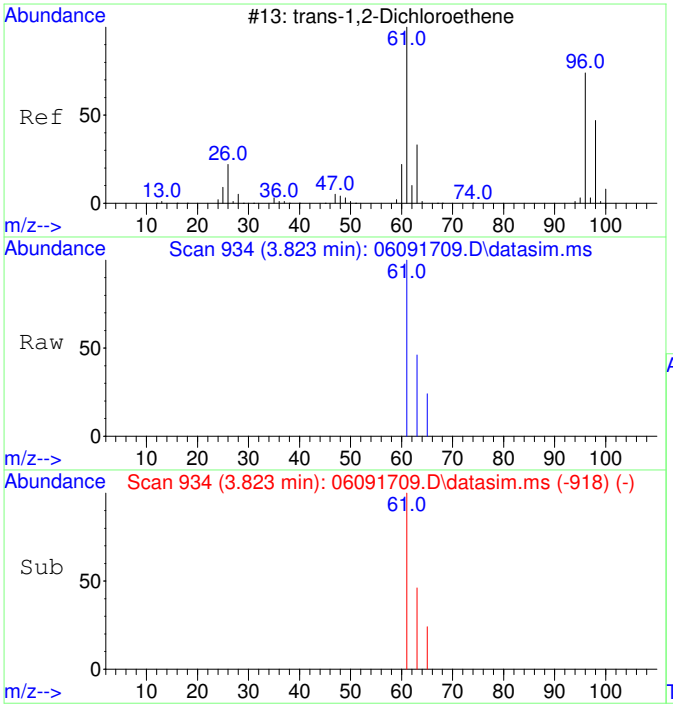


#2
1,1-Dichloroethene
Concen: 24.32 ug/L
RT: 2.711 min Scan# 707
Delta R.T. -0.000 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 61 Resp: 967

Ion	Ratio	Lower	Upper
61	100		
96	0.0	21.8	81.8#

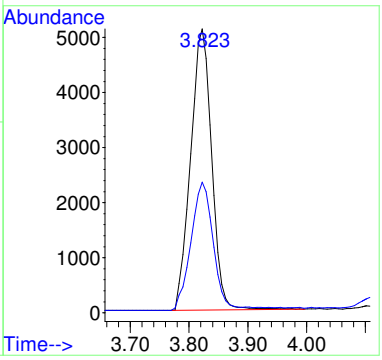


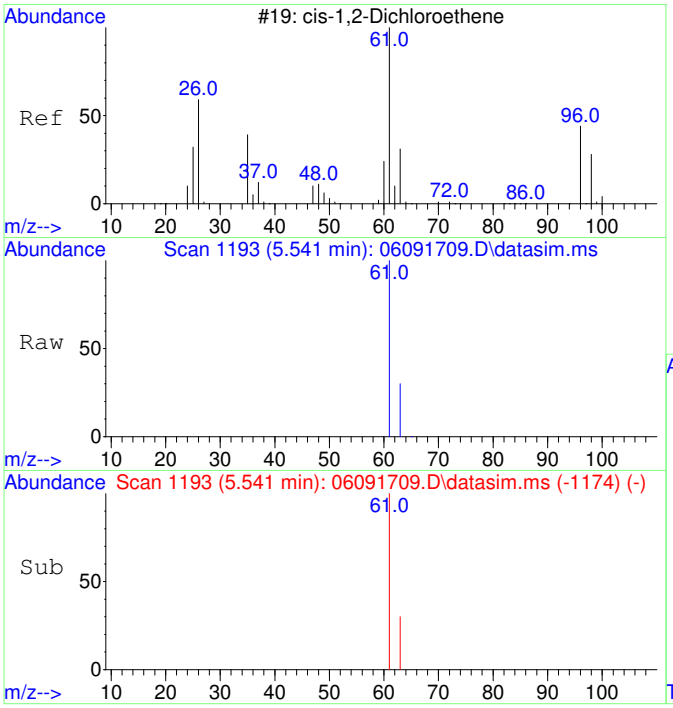


#3
trans-1,2-Dichloroethene
Concen: 297.04 ug/L
RT: 3.823 min Scan# 934
Delta R.T. -0.047 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 61 Resp: 12801

Ion	Ratio	Lower	Upper
61	100		
63	48.4	1.0	61.0

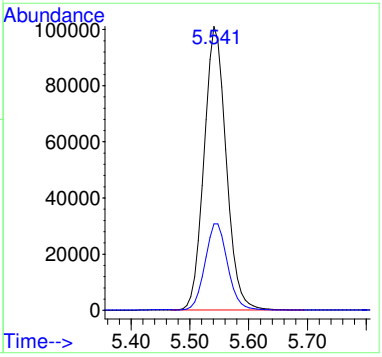


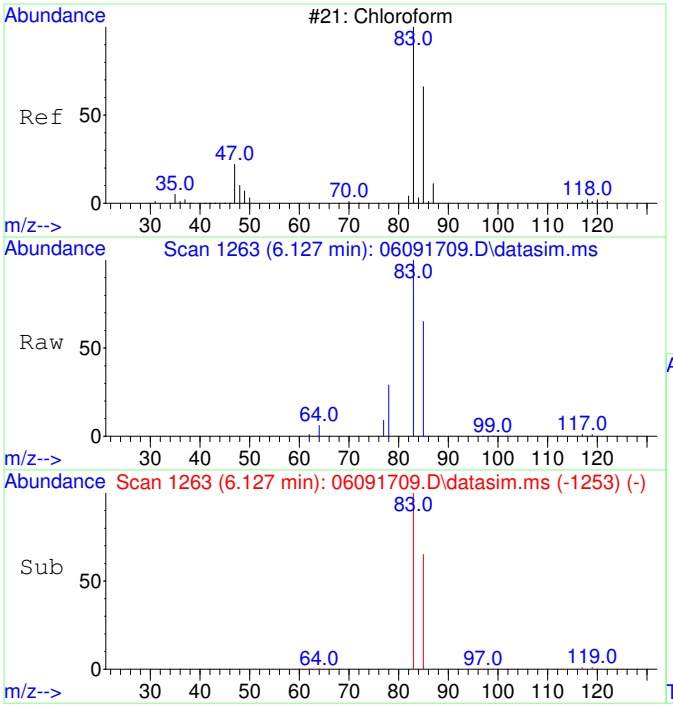


#5
cis-1,2-Dichloroethene
Concen: 5939.93 ug/L
RT: 5.541 min Scan# 1193
Delta R.T. -0.027 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 61 Resp: 263745

Ion	Ratio	Lower	Upper
61	100		
63	30.9	0.9	60.9

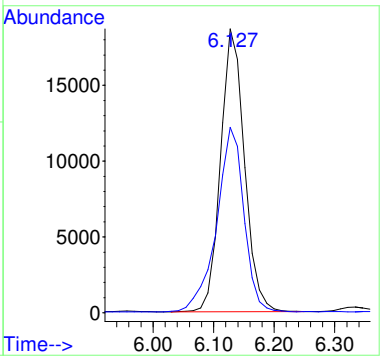


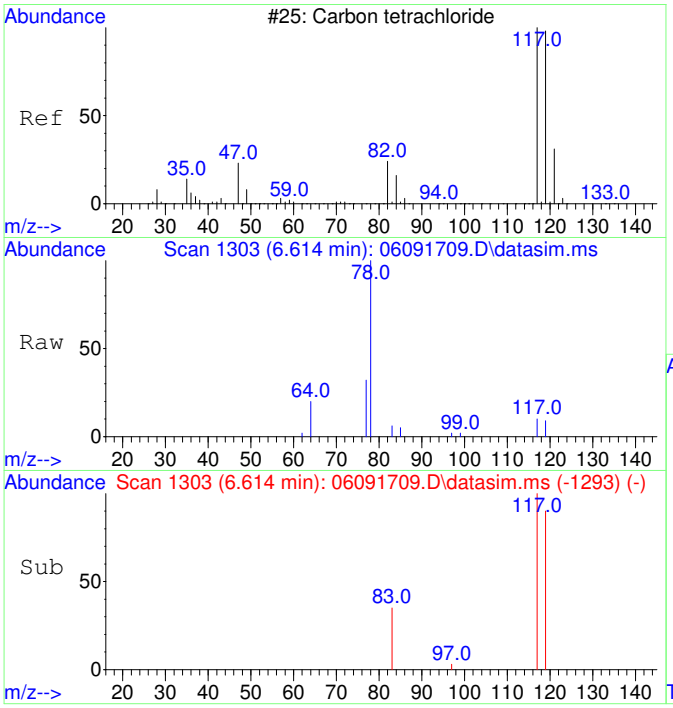


#6
Chloroform
Concen: 1187.36 ug/L
RT: 6.127 min Scan# 1263
Delta R.T. -0.025 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 83 Resp: 51016

Ion	Ratio	Lower	Upper
83	100		
85	73.9	33.7	93.7

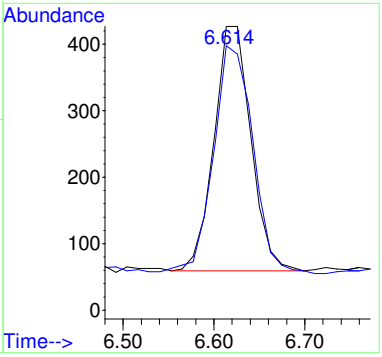


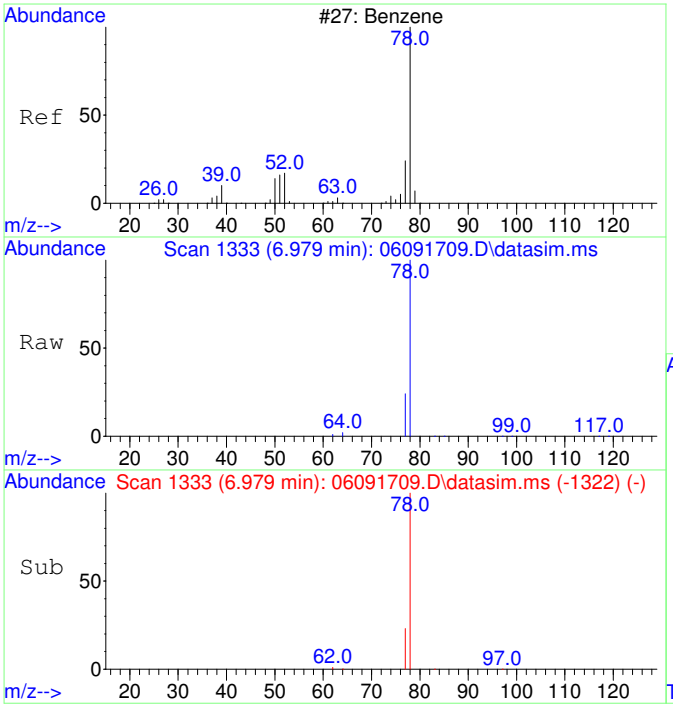


#8
Carbon tetrachloride
Concen: 30.67 ug/L
RT: 6.614 min Scan# 1303
Delta R.T. -0.025 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion:117 Resp: 1044

Ion	Ratio	Lower	Upper
117	100		
119	95.6	65.5	125.5

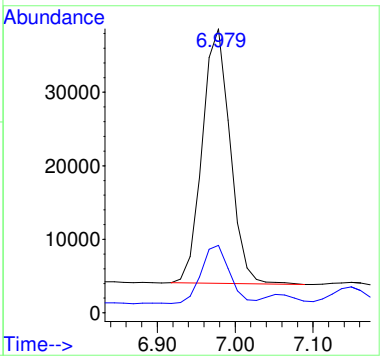


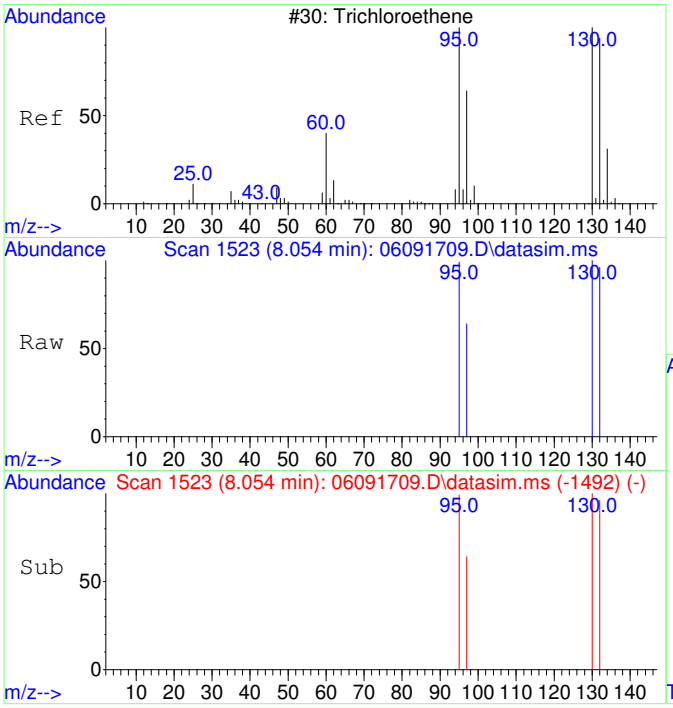


#9
Benzene
Concen: 858.18 ug/L
RT: 6.979 min Scan# 1333
Delta R.T. -0.012 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 78 Resp: 85868

Ion	Ratio	Lower	Upper
78	100		
77	21.7	0.0	53.0

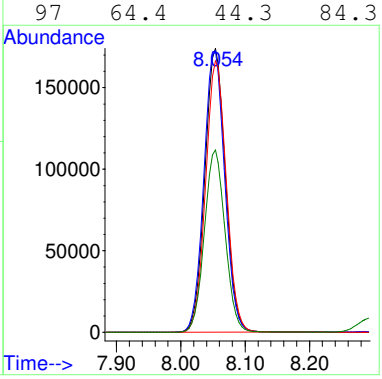


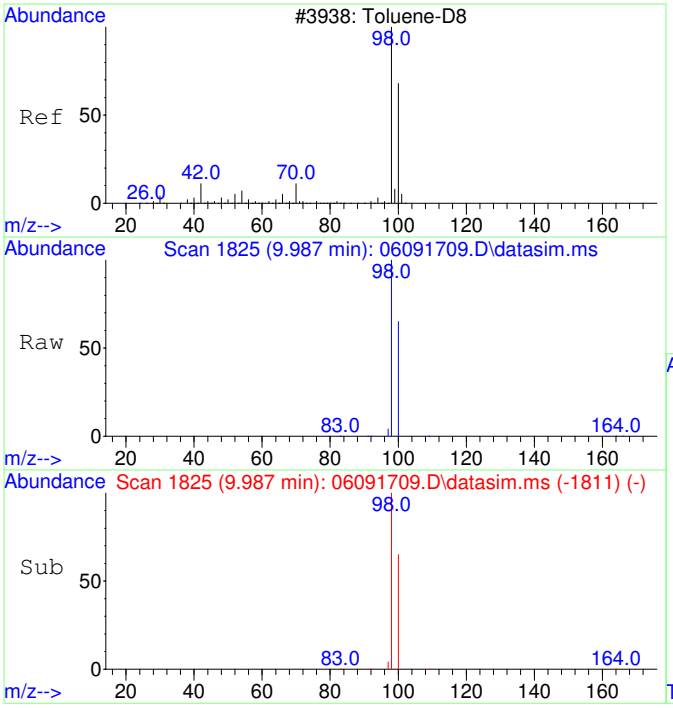


#11
Trichloroethene
Concen: 15048.86 ug/L
RT: 8.054 min Scan# 1523
Delta R.T. -0.009 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion:130 Resp: 387249

Ion	Ratio	Lower	Upper
130	100		
95	100.5	69.8	129.8
132	95.9	76.4	116.4
97	64.4	44.3	84.3

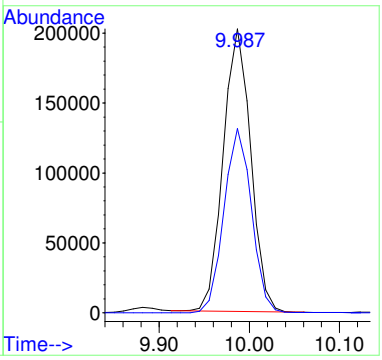


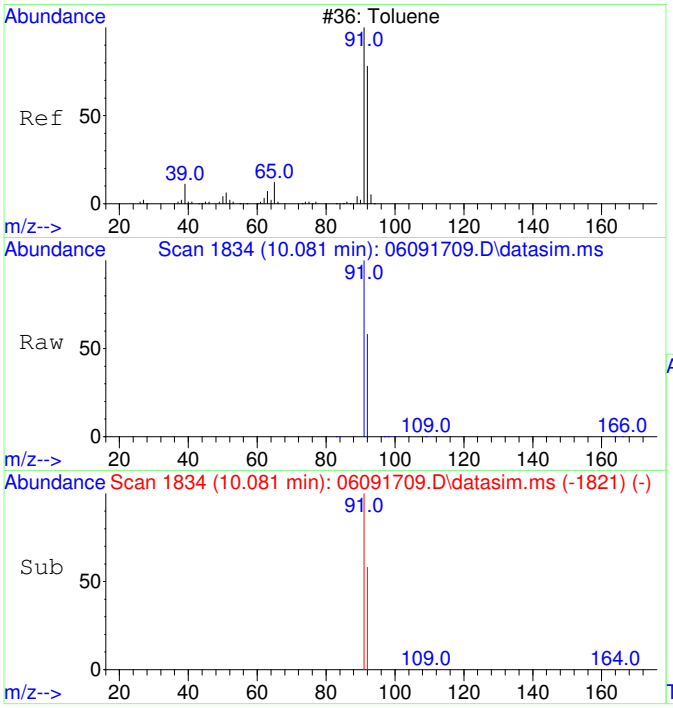


#12
Toluene-d8
Concen: 5194.43 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. -0.000 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 98 Resp: 428877

Ion	Ratio	Lower	Upper
98	100		
100	64.6	34.2	94.2

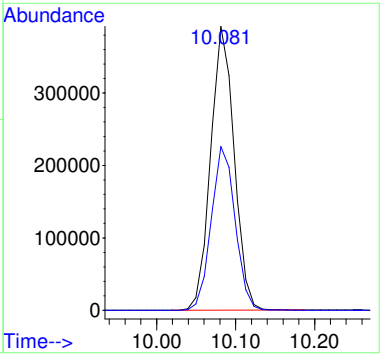


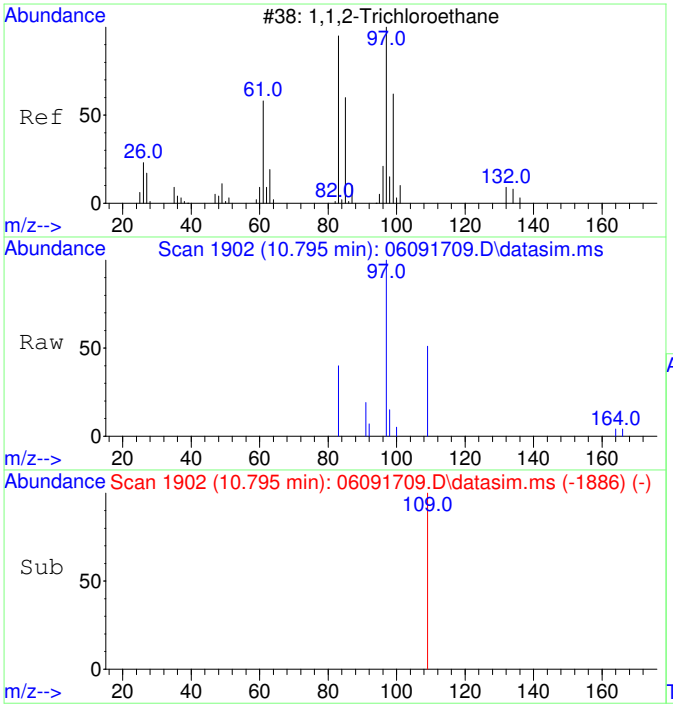


#13
Toluene
Concen: 7394.69 ug/L
RT: 10.081 min Scan# 1834
Delta R.T. -0.011 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 91 Resp: 808517

Ion	Ratio	Lower	Upper
91	100		
92	58.2	28.4	88.4

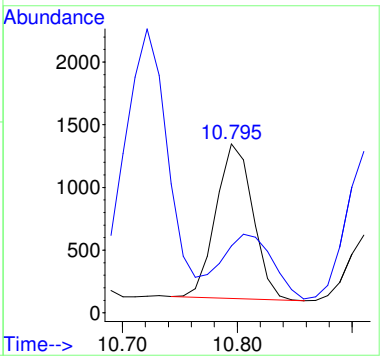


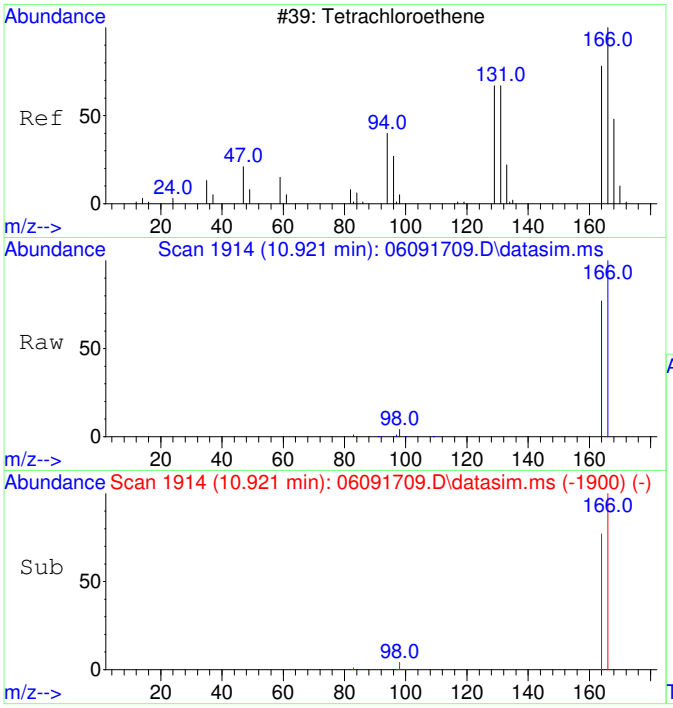


#14
1,1,2-Trichloroethane
Concen: 117.79 ug/L
RT: 10.795 min Scan# 1902
Delta R.T. 0.021 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 97 Resp: 2754

Ion	Ratio	Lower	Upper
97	100		
83	40.9	54.5	114.5#

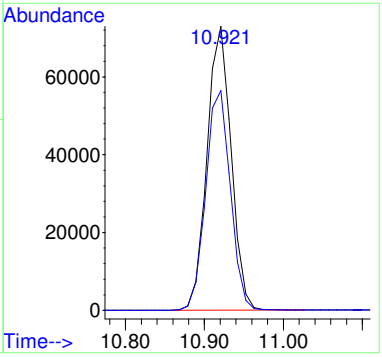


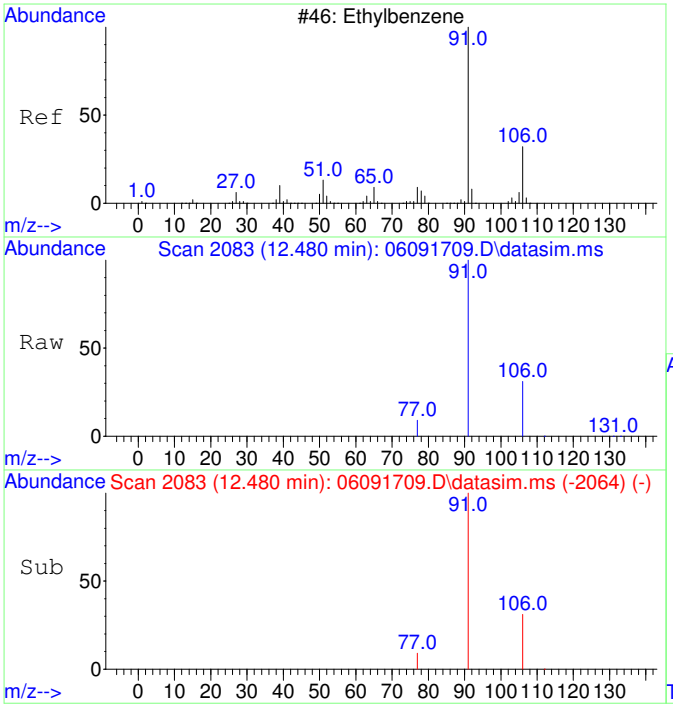


#15
Tetrachloroethene
Concen: 5510.95 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. -0.000 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion:166 Resp: 154440

Ion	Ratio	Lower	Upper
166	100		
164	78.4	48.1	108.1

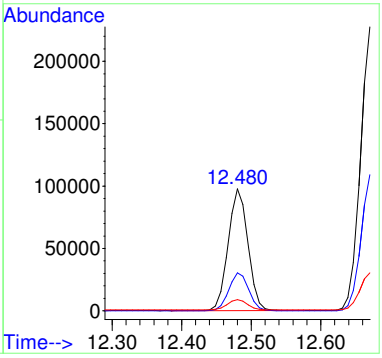


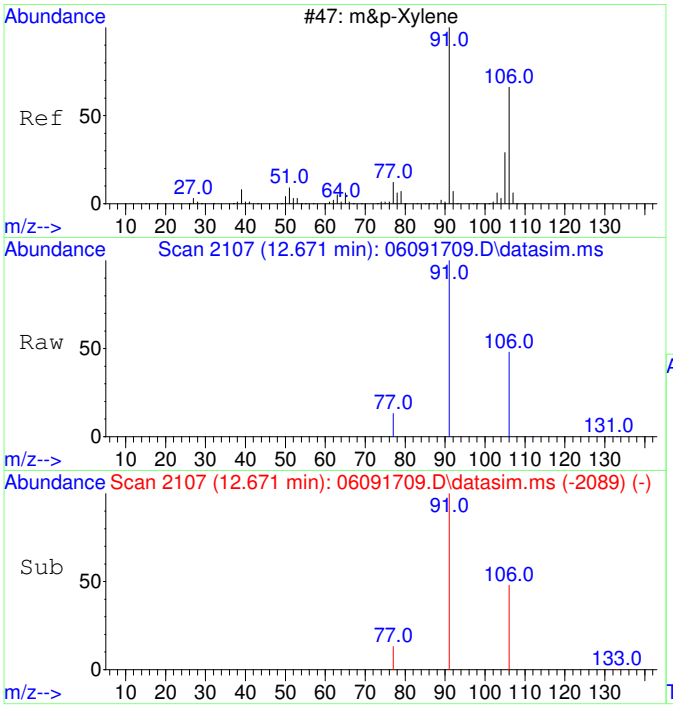


#18
Ethylbenzene
Concen: 1631.07 ug/L
RT: 12.480 min Scan# 2083
Delta R.T. -0.000 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 91 Resp: 191928

Ion	Ratio	Lower	Upper
91	100		
106	31.4	1.2	61.2
77	8.5	0.0	38.6

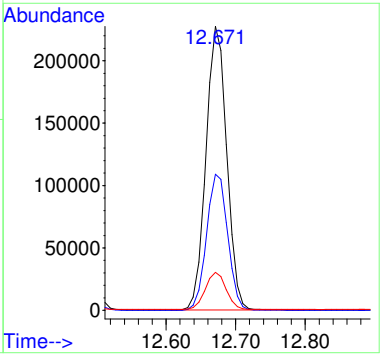


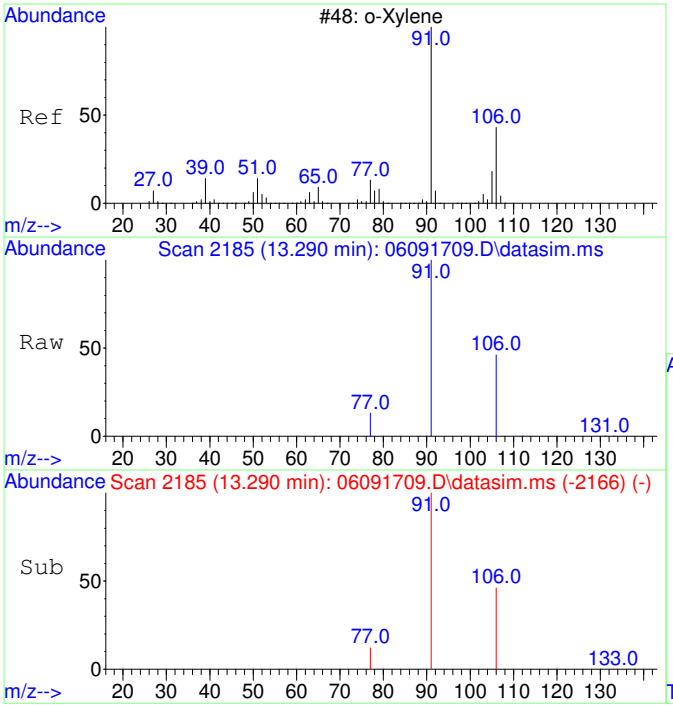


#19
m&p-Xylene
Concen: 5105.69 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 91 Resp: 471304

Ion	Ratio	Lower	Upper
91	100		
106	48.8	18.4	78.4
77	13.0	0.0	43.1

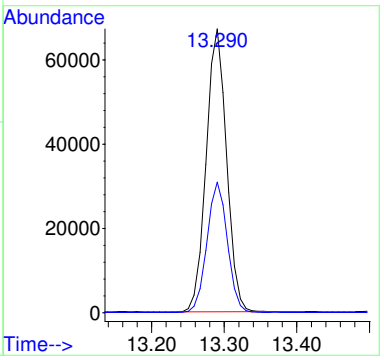


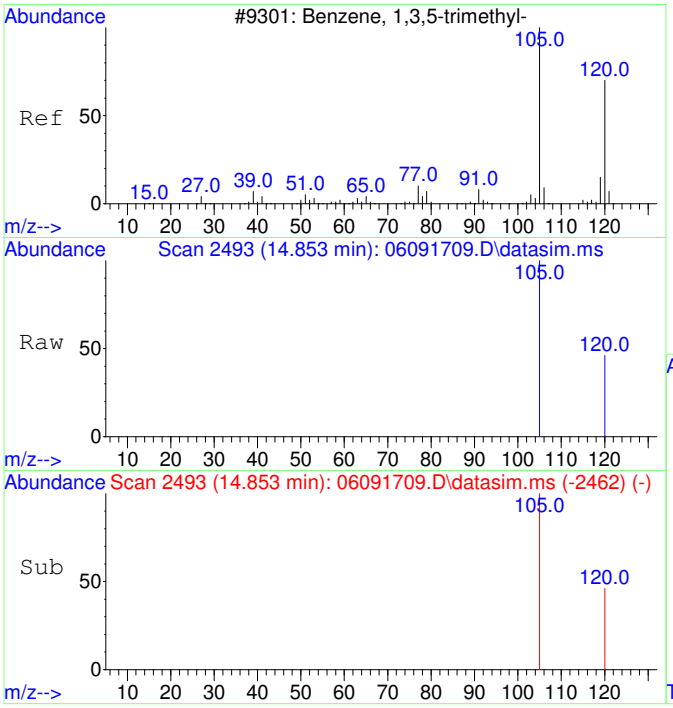


#20
o-Xylene
Concen: 1376.32 ug/L
RT: 13.290 min Scan# 2185
Delta R.T. -0.000 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 91 Resp: 131393

Ion	Ratio	Lower	Upper
91	100		
106	45.9	16.0	76.0

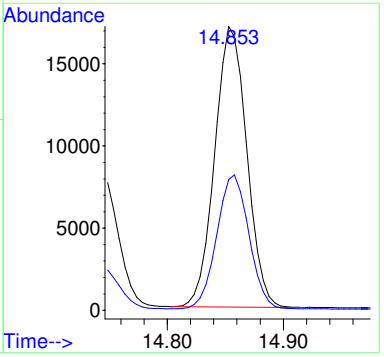


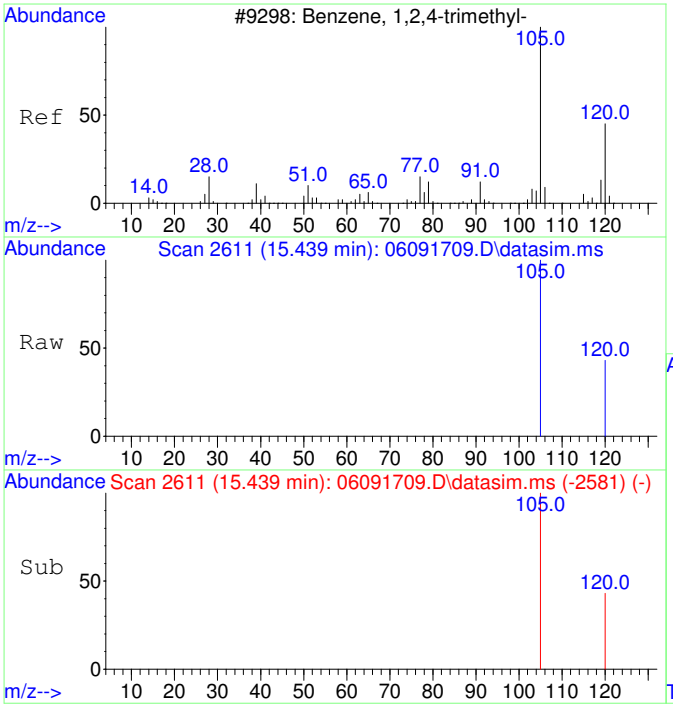


#22
1,3,5-Trimethylbenzene
Concen: 346.88 ug/L
RT: 14.853 min Scan# 2493
Delta R.T. -0.000 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion:105 Resp: 32697

Ion	Ratio	Lower	Upper
105	100		
120	48.0	18.0	78.0

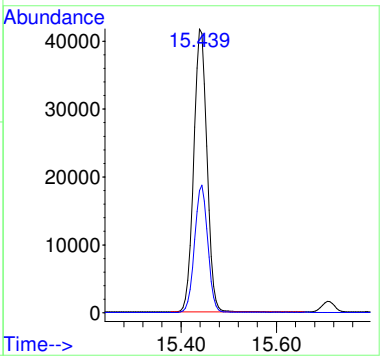


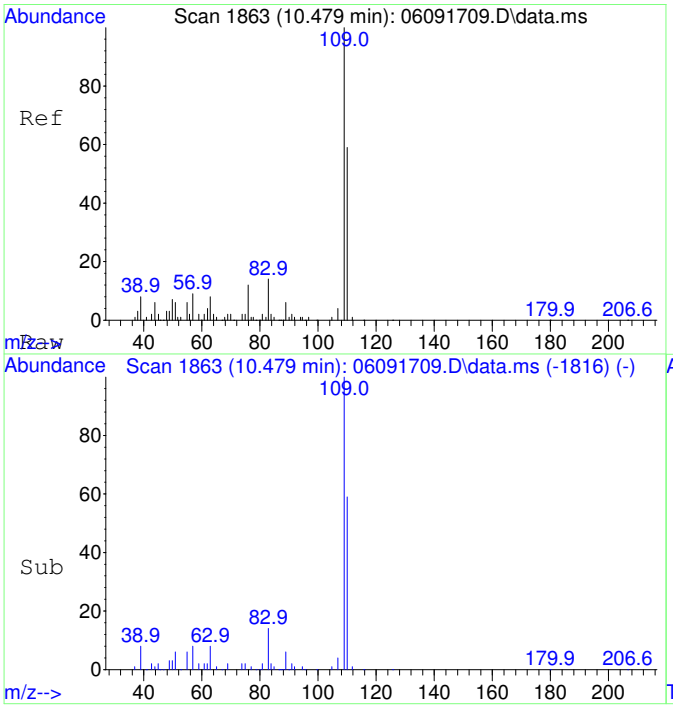


#23
1,2,4-Trimethylbenzene
Concen: 830.46 ug/L
RT: 15.439 min Scan# 2611
Delta R.T. -0.000 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion:105 Resp: 80250

Ion	Ratio	Lower	Upper
105	100		
120	44.7	14.4	74.4

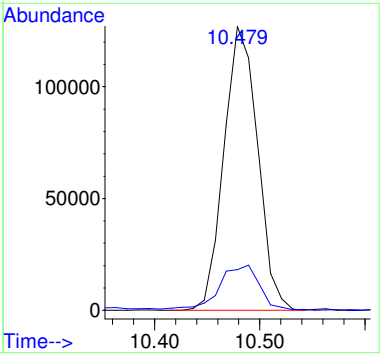


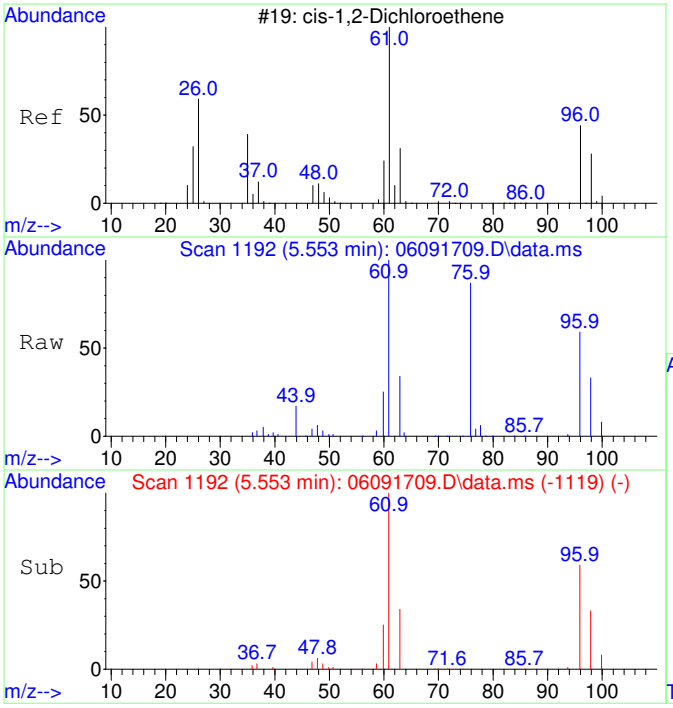


#25
2-Fluorotoluene SCAN
Concen: 4632.48 ug/L
RT: 10.479 min Scan# 1863
Delta R.T. -0.011 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion:109 Resp: 283162

Ion	Ratio	Lower	Upper
109	100		
83	18.4	0.0	46.1

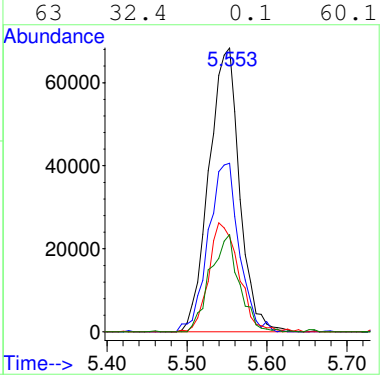


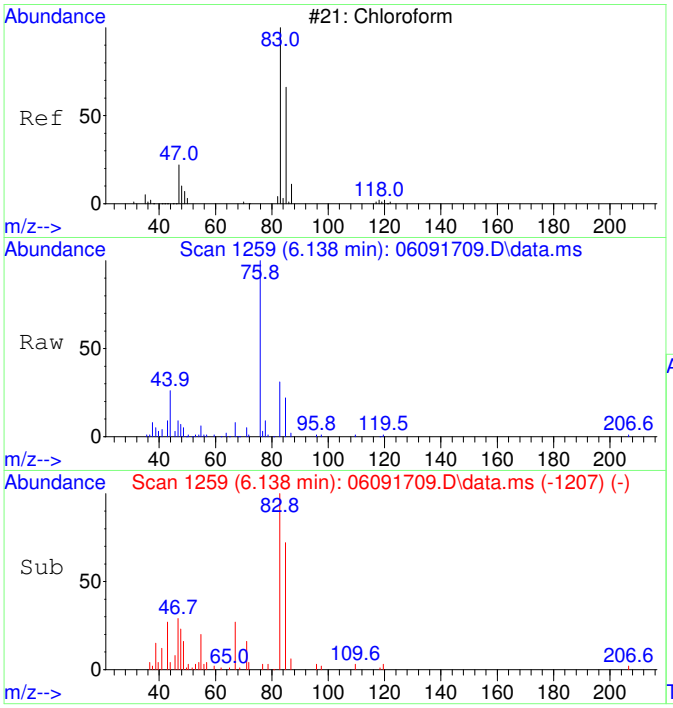


#29
cis-1,2-Dichloroethene SCAN
Concen: 5754.67 ug/L
RT: 5.553 min Scan# 1192
Delta R.T. -0.013 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 61 Resp: 182205

Ion	Ratio	Lower	Upper
61	100		
96	59.7	17.5	77.5
98	38.0	1.9	61.9
63	32.4	0.1	60.1

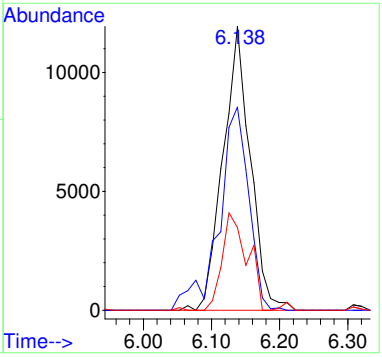


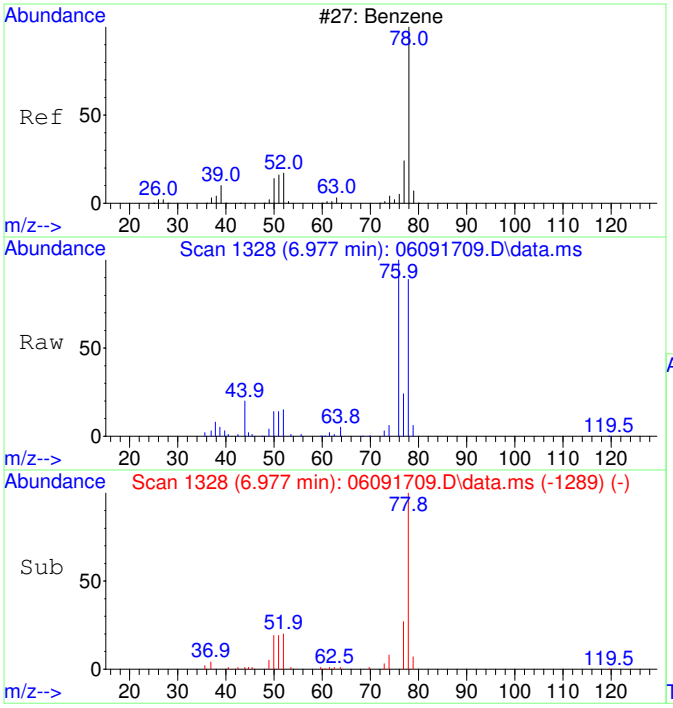


#30
Chloroform SCAN
Concen: 1161.92 ug/L
RT: 6.138 min Scan# 1259
Delta R.T. -0.012 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 83 Resp: 33174

Ion	Ratio	Lower	Upper
83	100		
85	77.6	31.2	91.2
47	31.7	3.2	63.2

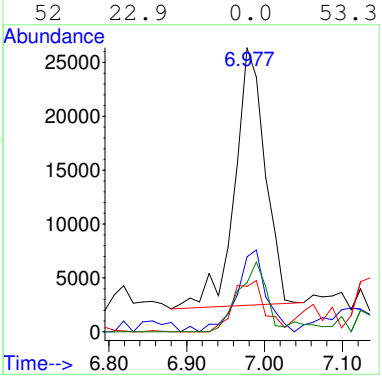


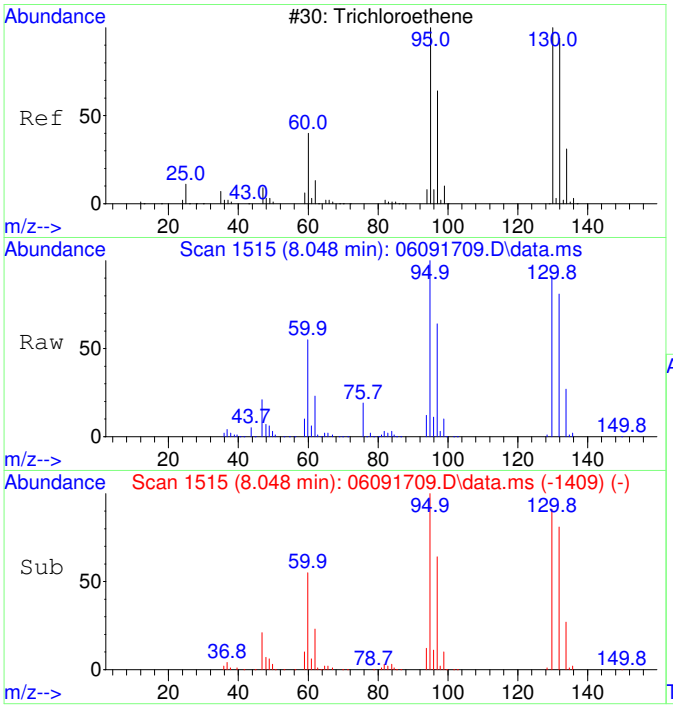


#33
Benzene SCAN
Concen: 1000.57 ug/L
RT: 6.977 min Scan# 1328
Delta R.T. -0.025 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 78 Resp: 64746

Ion	Ratio	Lower	Upper
78	100		
77	30.3	0.0	55.2
51	19.1	0.0	52.4
52	22.9	0.0	53.3

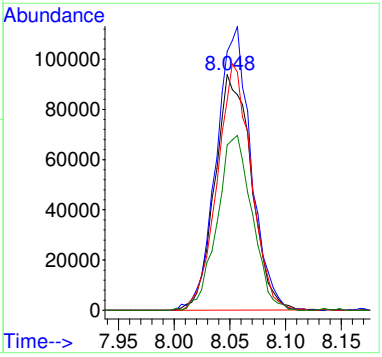


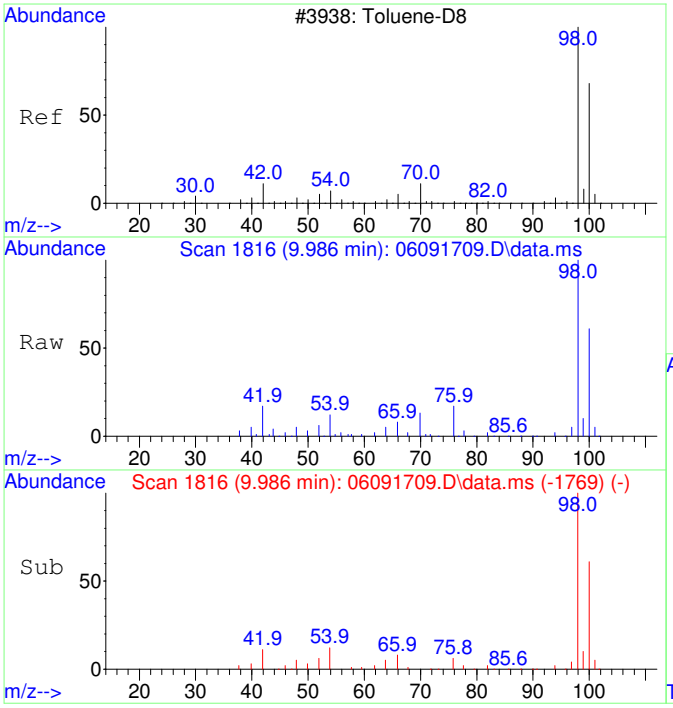


#35
Trichloroethene SCAN
Concen: 14225.13 ug/L
RT: 8.048 min Scan# 1515
Delta R.T. -0.014 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion:130 Resp: 213166

Ion	Ratio	Lower	Upper
130	100		
95	114.2	76.1	136.1
132	97.9	65.6	125.6
97	71.2	41.8	101.8

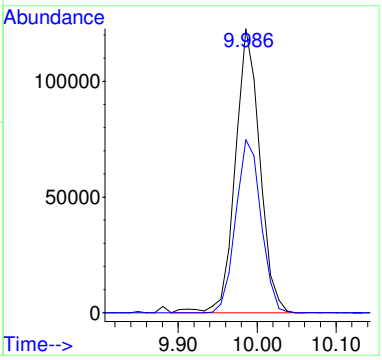


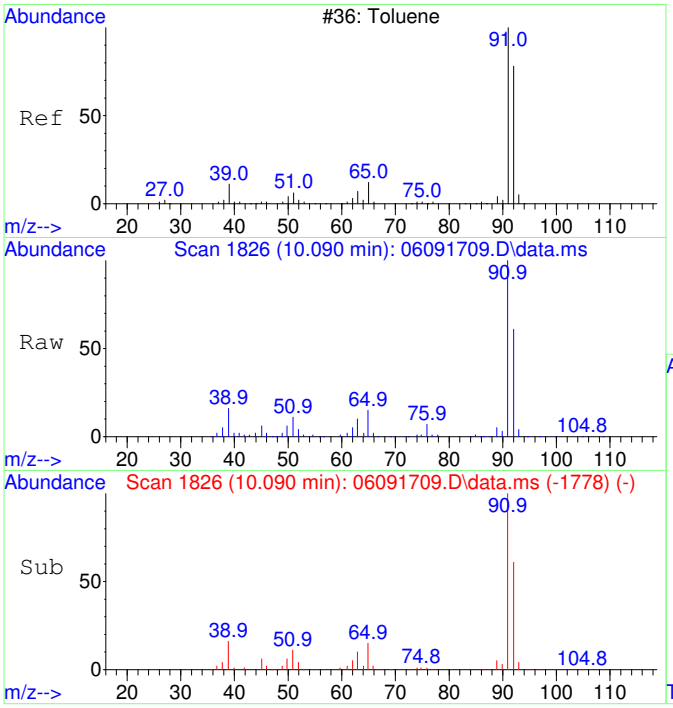


#36
Toluene-d8 SCAN
Concen: 5233.02 ug/L
RT: 9.986 min Scan# 1816
Delta R.T. -0.011 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 98 Resp: 263992

Ion	Ratio	Lower	Upper
98	100		
100	62.8	36.2	96.2

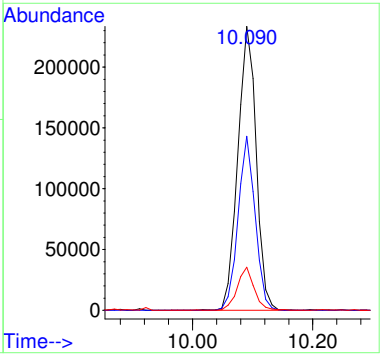


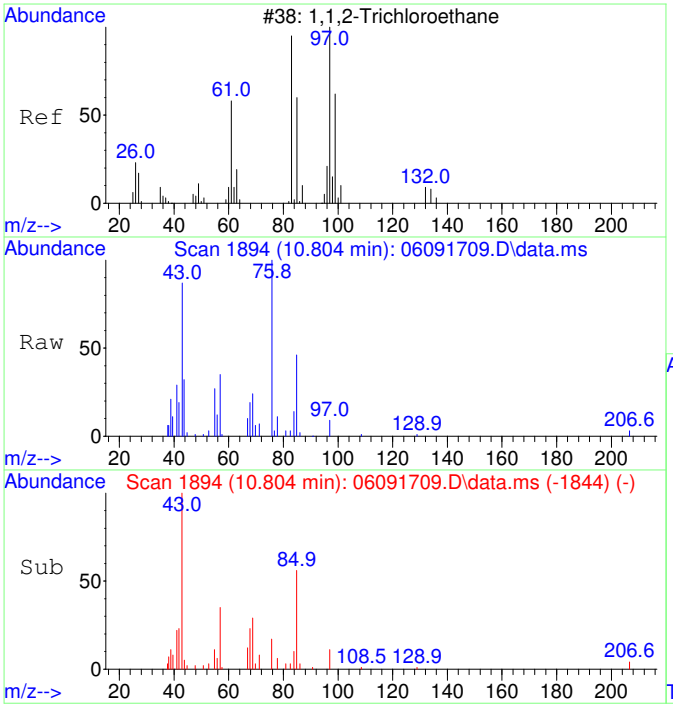


#37
Toluene SCAN
Concen: 7438.90 ug/L
RT: 10.090 min Scan# 1826
Delta R.T. -0.000 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 91 Resp: 500524

Ion	Ratio	Lower	Upper
91	100		
92	56.9	29.2	89.2
65	14.1	0.0	44.3

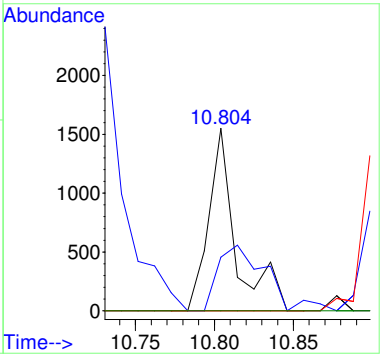


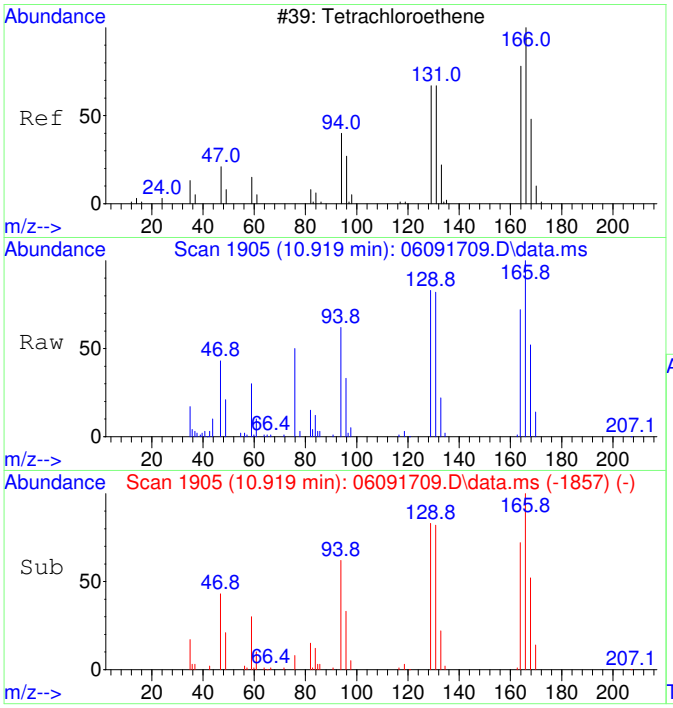


#38
1,1,2-Trichloroethane SCAN
Concen: 122.48 ug/L
RT: 10.804 min Scan# 1894
Delta R.T. 0.021 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 97 Resp: 1856

Ion	Ratio	Lower	Upper
97	100		
83	64.4	57.8	117.8
61	0.0	48.6	108.6#
99	0.0	32.7	92.7#

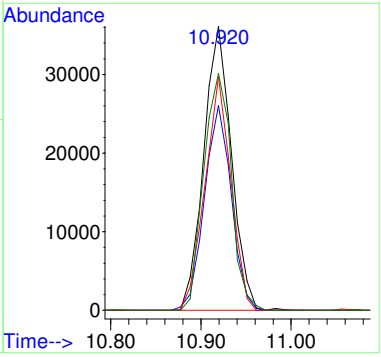


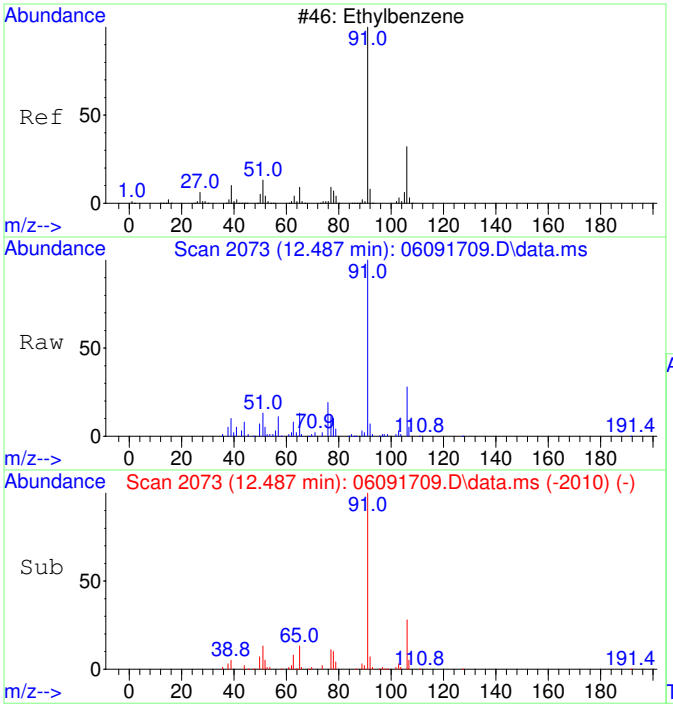


#39
Tetrachloroethene SCAN
Concen: 5586.78 ug/L
RT: 10.919 min Scan# 1905
Delta R.T. -0.000 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion:166 Resp: 77064

Ion	Ratio	Lower	Upper
166	100		
164	69.6	45.7	105.7
131	76.8	44.8	104.8
129	83.0	55.5	115.5

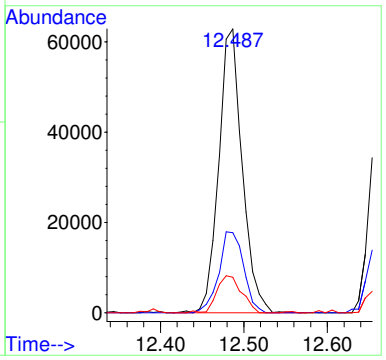


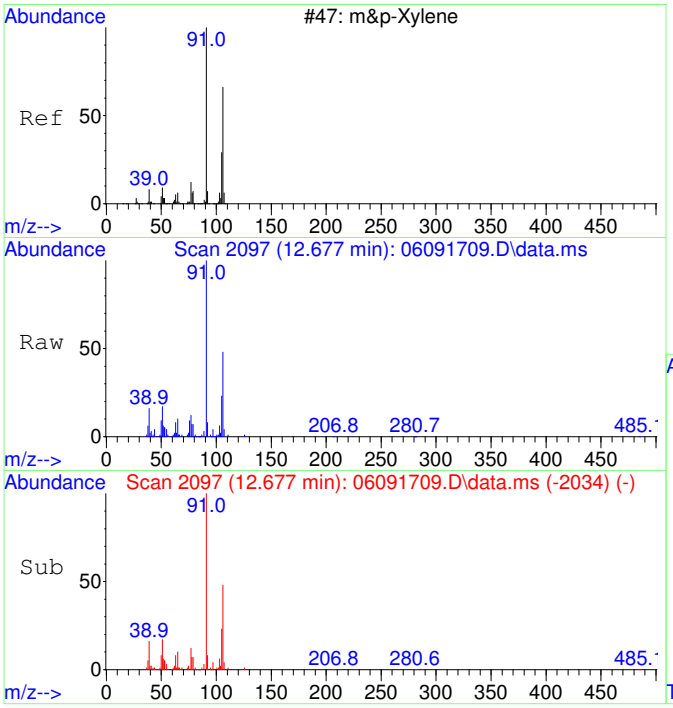


#42
Ethylbenzene SCAN
Concen: 1636.09 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. -0.000 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 91 Resp: 123262

Ion	Ratio	Lower	Upper
91	100		
106	30.1	0.0	59.8
51	13.8	0.0	45.5

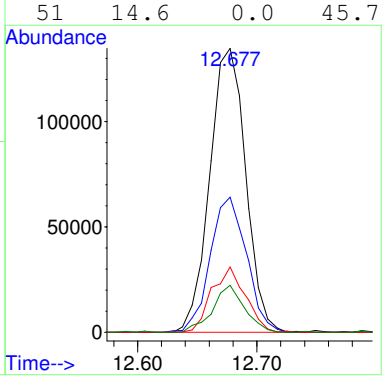


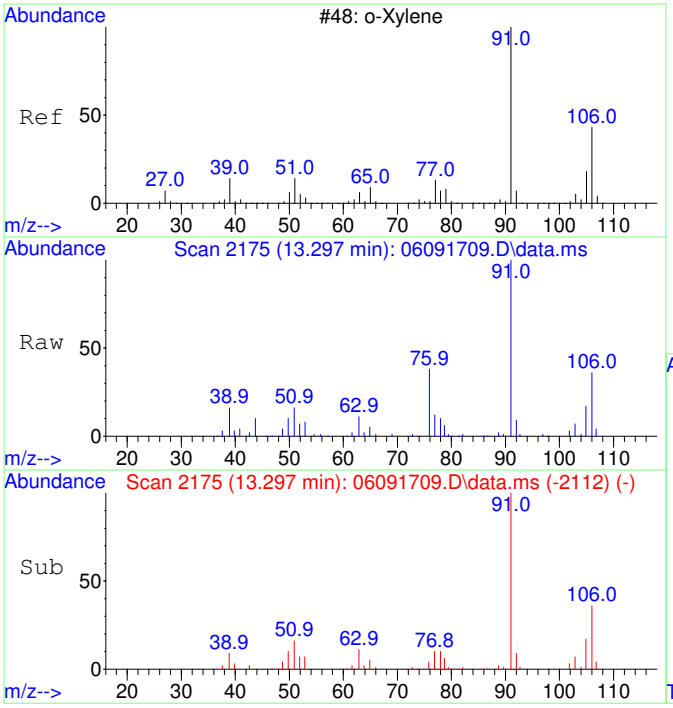


#43
m&p-Xylene SCAN
Concen: 2411.41 ug/L
RT: 12.677 min Scan# 2097
Delta R.T. -0.000 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 91 Resp: 283653

Ion	Ratio	Lower	Upper
91	100		
106	48.1	18.5	78.5
105	21.7	0.0	51.3
51	14.6	0.0	45.7

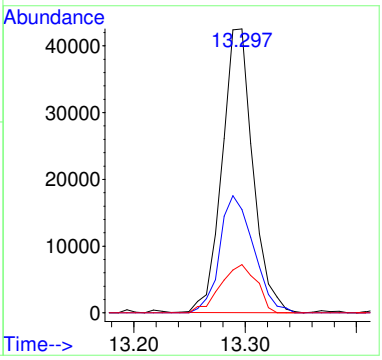


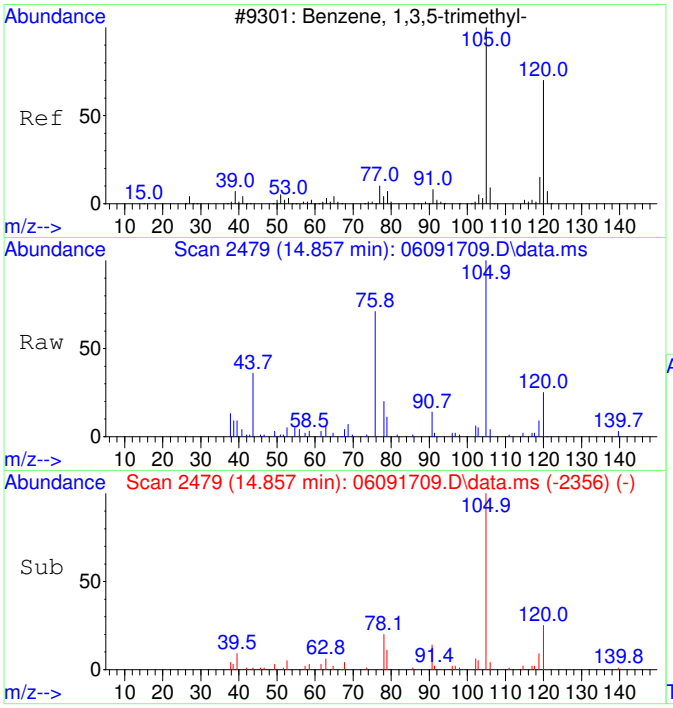


#44
o-Xylene SCAN
Concen: 1351.50 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. -0.000 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion: 91 Resp: 81864

Ion	Ratio	Lower	Upper
91	100		
106	45.4	15.5	75.5
105	20.0	0.0	54.1

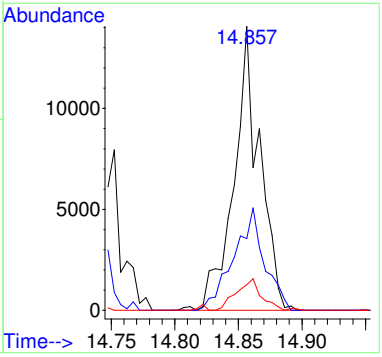


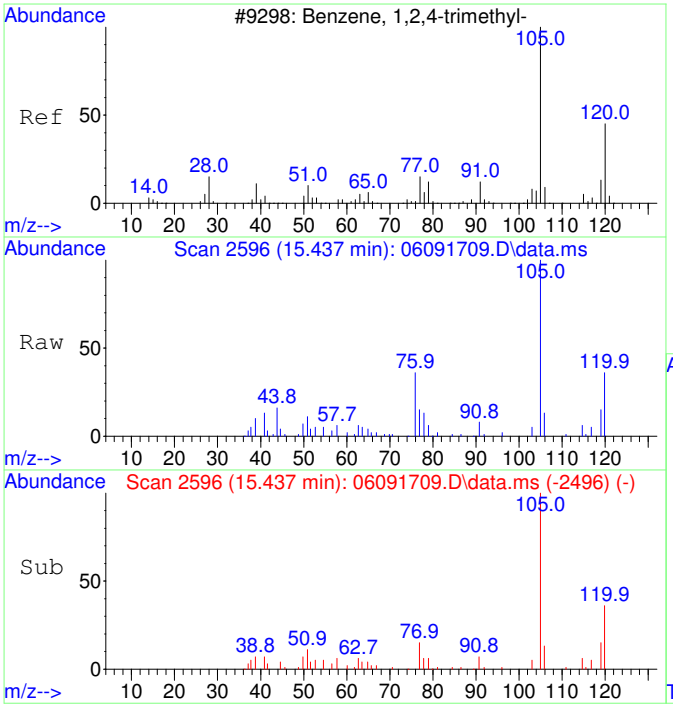


#46
1,3,5-Trimethylbenzene SCAN
Concen: 348.05 ug/L
RT: 14.857 min Scan# 2479
Delta R.T. -0.000 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion:105 Resp: 19998

Ion	Ratio	Lower	Upper
105	100		
120	42.6	17.3	77.3
119	10.9	0.0	42.7

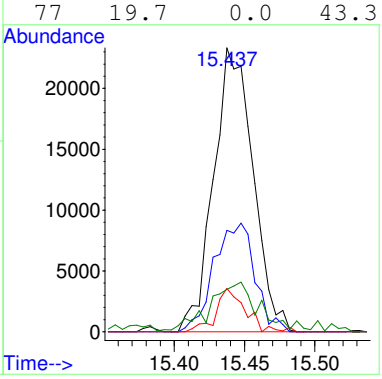




#47
1,2,4-Trimethylbenzene SCAN
Concen: 761.15 ug/L
RT: 15.437 min Scan# 2596
Delta R.T. -0.005 min
Lab File: 06091709.D
Acq: 9 Jun 2017 13:42

Tgt Ion:105 Resp: 45574

Ion	Ratio	Lower	Upper
105	100		
120	39.7	12.9	72.9
119	11.5	0.0	40.5
77	19.7	0.0	43.3



1706012-02

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091710.D
Acq On : 9 Jun 2017 14:06
InstName : AG5975C
Operator : RH
Sample : 1706012-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 09 14:30:45 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

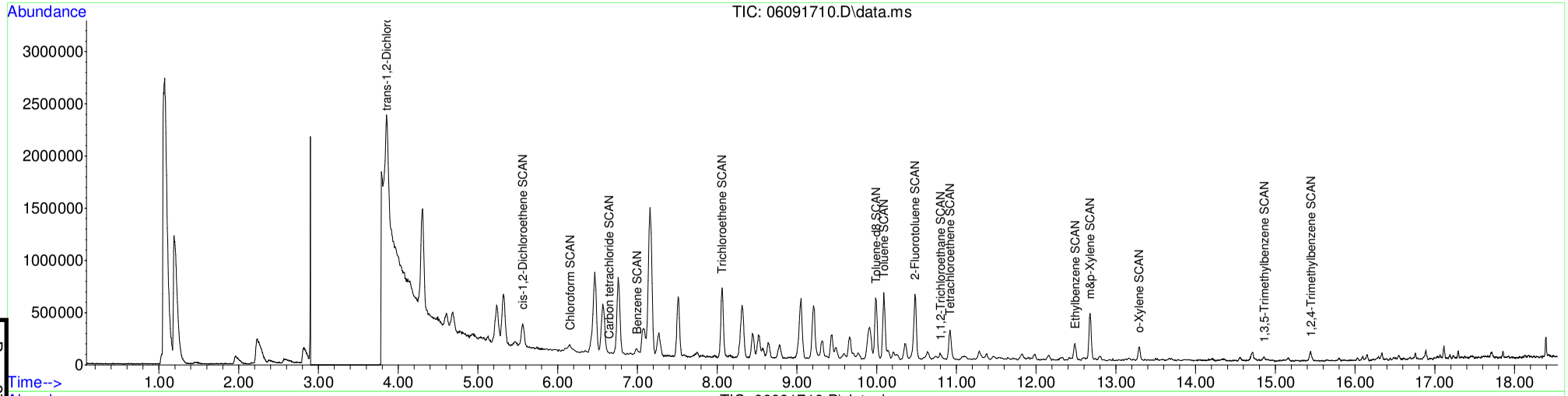
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.481	109	829642	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	699154	5145.78 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 102.92%		
Target Compounds					Qvalue
3] trans-1,2-Dichloroethene	3.856	61	14063	198.30 ug/L	69
5] cis-1,2-Dichloroethene	5.561	61	285420	3906.20 ug/L	100
6] Chloroform	6.140	83	59183	837.04 ug/L	88
8] Carbon tetrachloride	6.638	117	1796	32.06 ug/L	98
9] Benzene	6.991	78	86151	523.22 ug/L	98
11] Trichloroethene	8.063	130	411508	9717.73 ug/L	99
13] Toluene	10.082	91	802761	4461.60 ug/L	100
14] 1,1,2-Trichloroethane	10.795	97	2465	64.07 ug/L #	7
15] Tetrachloroethene	10.921	166	164890	3575.48 ug/L	100
18] Ethylbenzene	12.481	91	191631	989.63 ug/L	100
19] m&p-Xylene	12.671	91	473819	3119.17 ug/L	100
20] o-Xylene	13.291	91	138816	883.61 ug/L	100
22] 1,3,5-Trimethylbenzene	14.855	105	33662	217.01 ug/L	100
23] 1,2,4-Trimethylbenzene	15.440	105	83875	527.44 ug/L	99
25) 2-Fluorotoluene SCAN	10.479	109	491220	4883.47 ug/L	98
27) trans-1,2-Dichloroethe...	3.848	61	10194	225.70 ug/L #	54
29) cis-1,2-Dichloroethene...	5.560	61	193937	3722.15 ug/L	88
30) Chloroform SCAN	6.150	83	35426	754.00 ug/L	78
32) Carbon tetrachloride SCAN	6.649	117	1680	47.20 ug/L #	18
33) Benzene SCAN	6.990	78	58182	546.38 ug/L	82
35) Trichloroethene SCAN	8.062	130	229765	9317.42 ug/L	97
36) Toluene-d8 SCAN	9.986	98	441663	5320.17 ug/L	96
37) Toluene SCAN	10.091	91	484518	4375.89 ug/L	98
38) 1,1,2-Trichloroethane ...	10.805	97	2367	94.92 ug/L #	29
39) Tetrachloroethene SCAN	10.920	166	90163	3972.02 ug/L	94
42) Ethylbenzene SCAN	12.487	91	115639	932.73 ug/L	97
43) m&p-Xylene SCAN	12.678	91	295854	1528.39 ug/L	95
44) o-Xylene SCAN	13.290	91	92209	925.06 ug/L	93
46) 1,3,5-Trimethylbenzene...	14.858	105	22336	236.23 ug/L	97
47) 1,2,4-Trimethylbenzene...	15.444	105	50140	508.87 ug/L	95

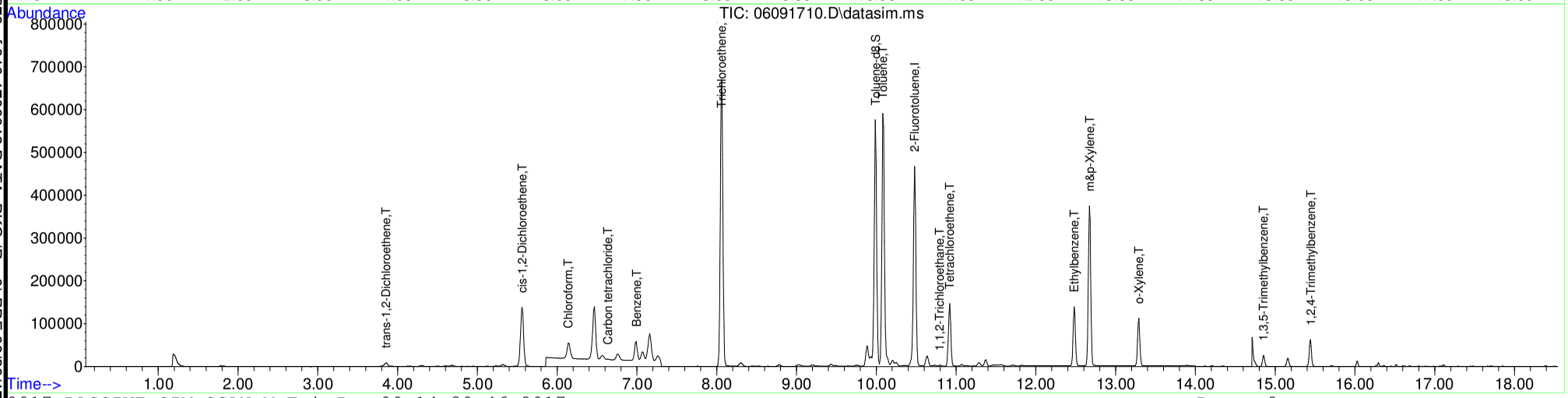
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091710.D
Acq On : 9 Jun 2017 14:06
InstName : AG5975C
Operator : RH
Sample : 1706012-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 09 14:30:45 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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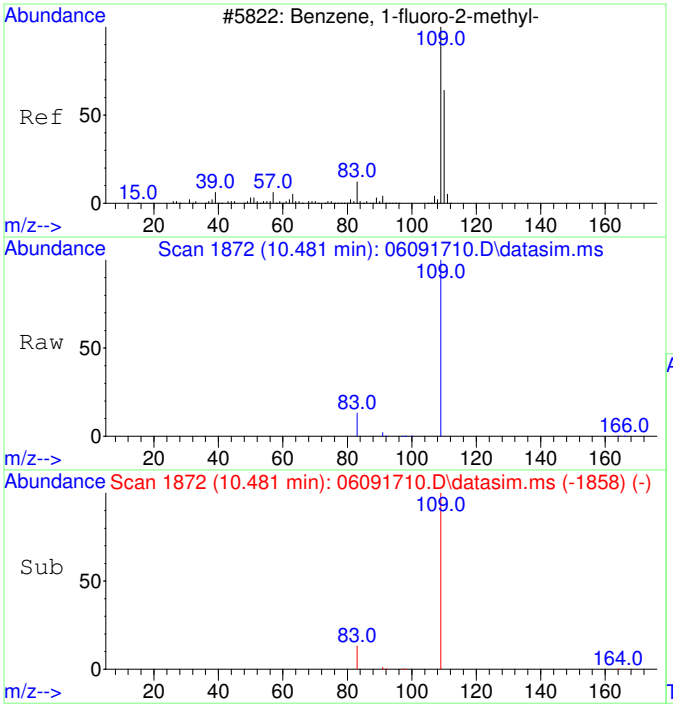
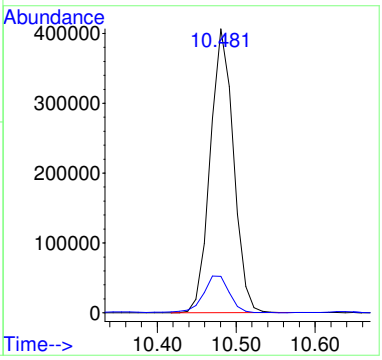
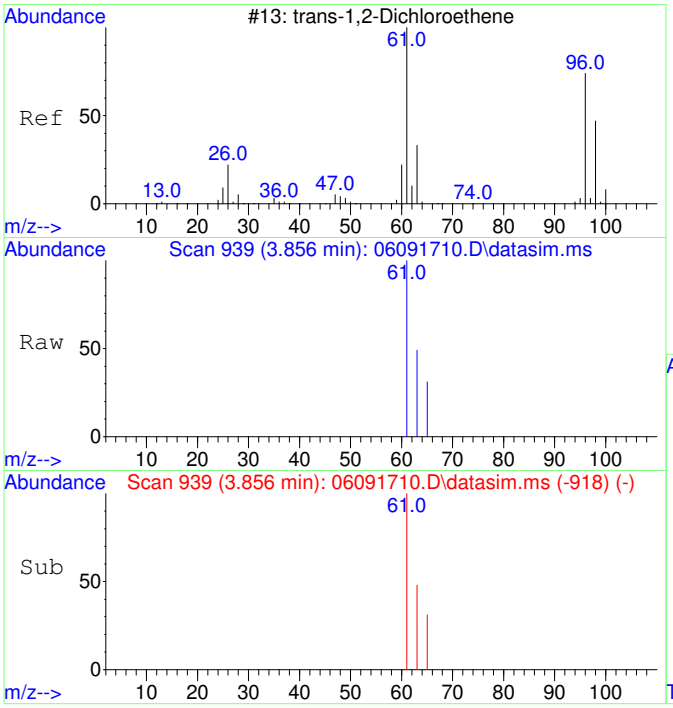


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.481 min Scan# 1872
Delta R.T. 0.001 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion:109 Resp: 829642

Ion	Ratio	Lower	Upper
109	100		
83	14.2	0.0	44.4

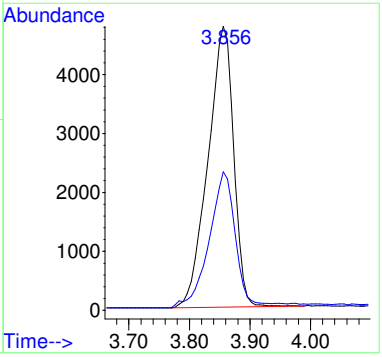


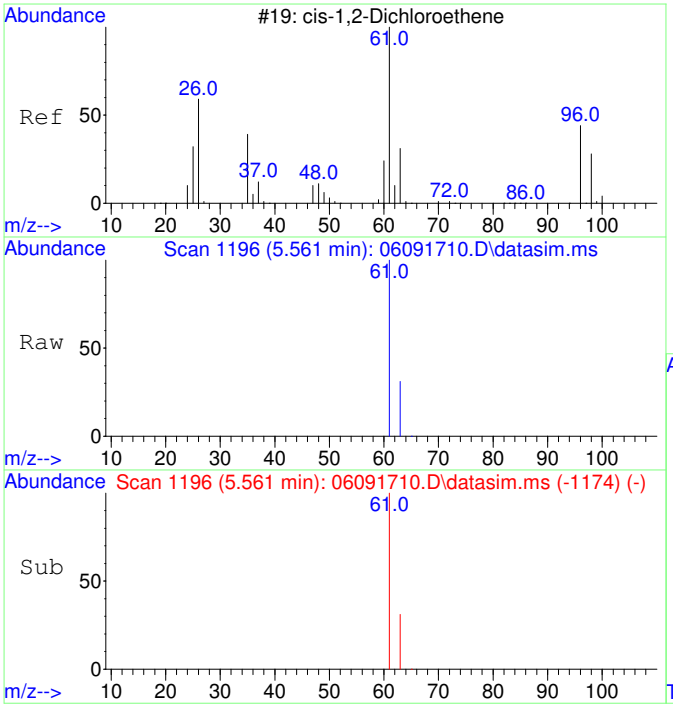


#3
trans-1,2-Dichloroethene
Concen: 198.30 ug/L
RT: 3.856 min Scan# 939
Delta R.T. -0.013 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 61 Resp: 14063

Ion	Ratio	Lower	Upper
61	100		
63	48.2	1.0	61.0

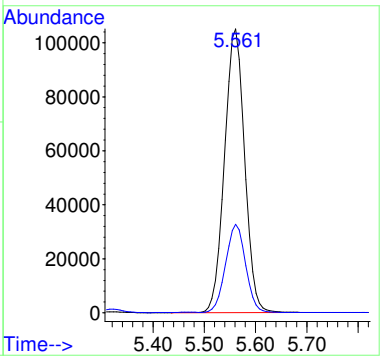


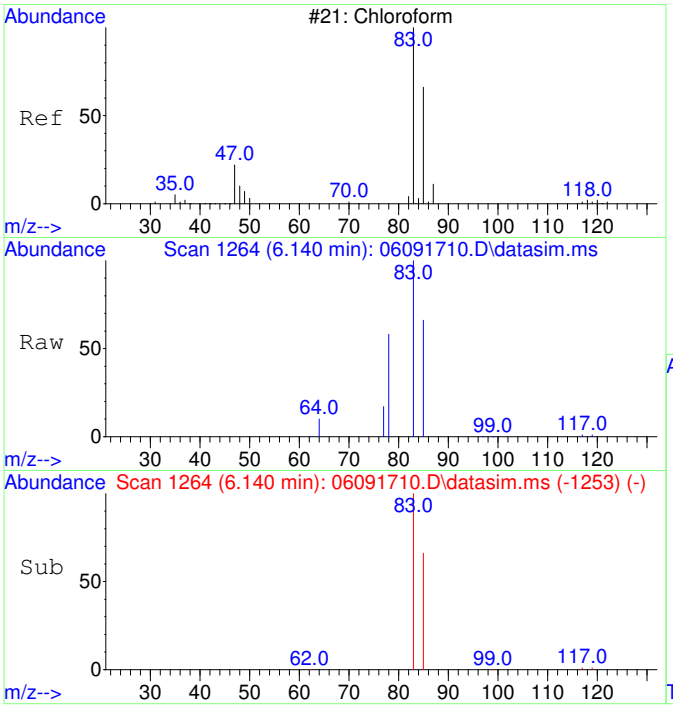


#5
cis-1,2-Dichloroethene
Concen: 3906.20 ug/L
RT: 5.561 min Scan# 1196
Delta R.T. -0.007 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 61 Resp: 285420

Ion	Ratio	Lower	Upper
61	100		
63	30.8	0.9	60.9

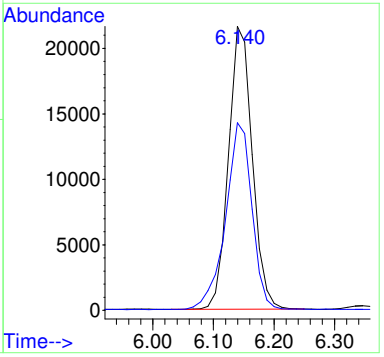


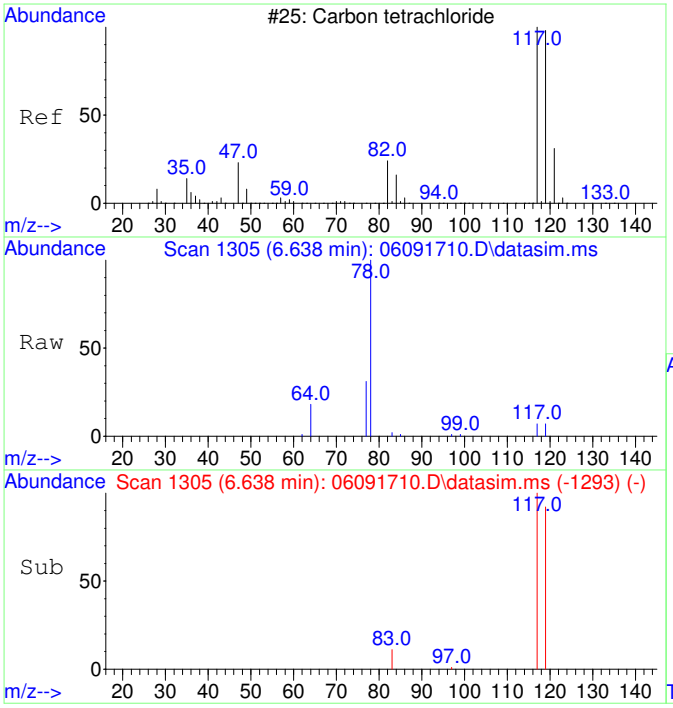


#6
Chloroform
Concen: 837.04 ug/L
RT: 6.140 min Scan# 1264
Delta R.T. -0.012 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 83 Resp: 59183

Ion	Ratio	Lower	Upper
83	100		
85	72.7	33.7	93.7

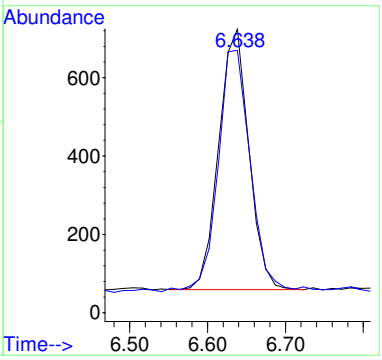


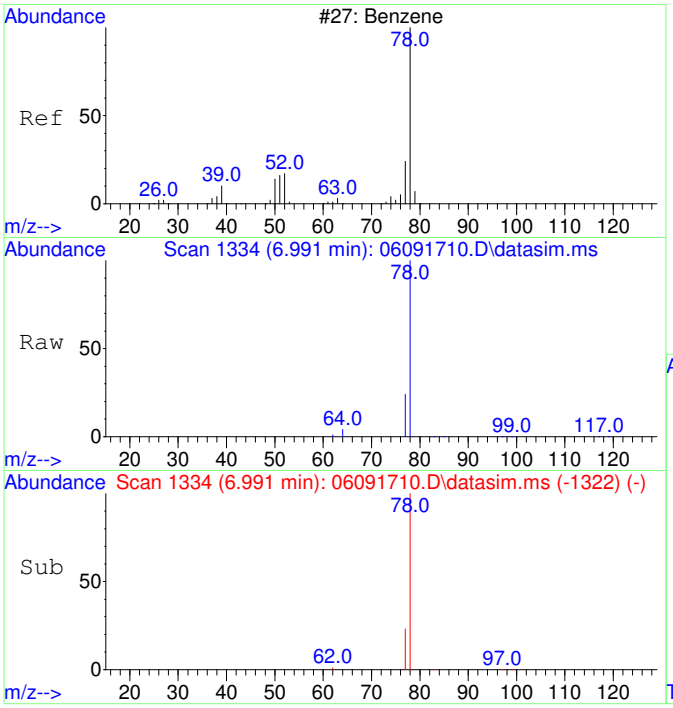


#8
Carbon tetrachloride
Concen: 32.06 ug/L
RT: 6.638 min Scan# 1305
Delta R.T. 0.000 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion:117 Resp: 1796

Ion	Ratio	Lower	Upper
117	100		
119	97.7	65.5	125.5

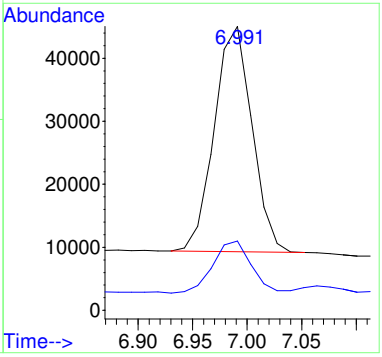


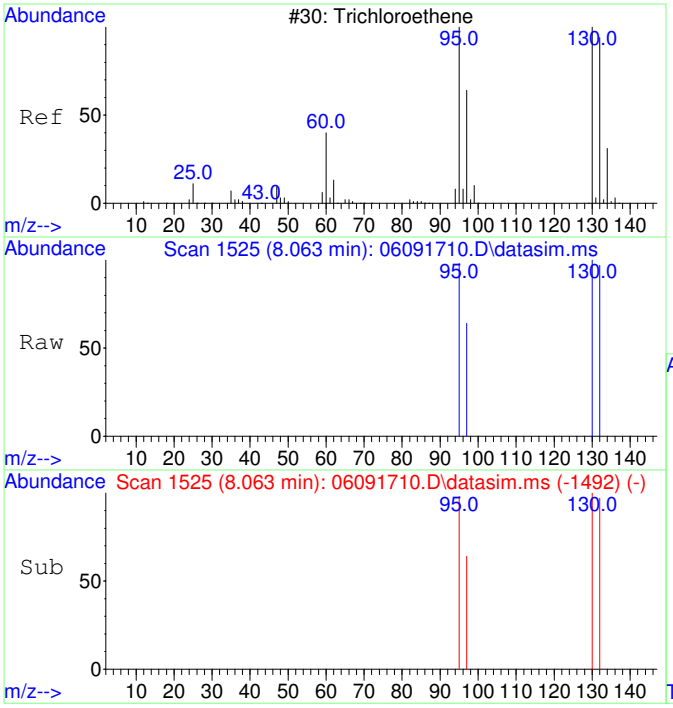


#9
Benzene
Concen: 523.22 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 78 Resp: 86151

Ion	Ratio	Lower	Upper
78	100		
77	22.1	0.0	53.0

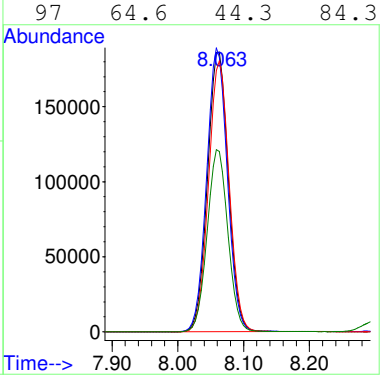


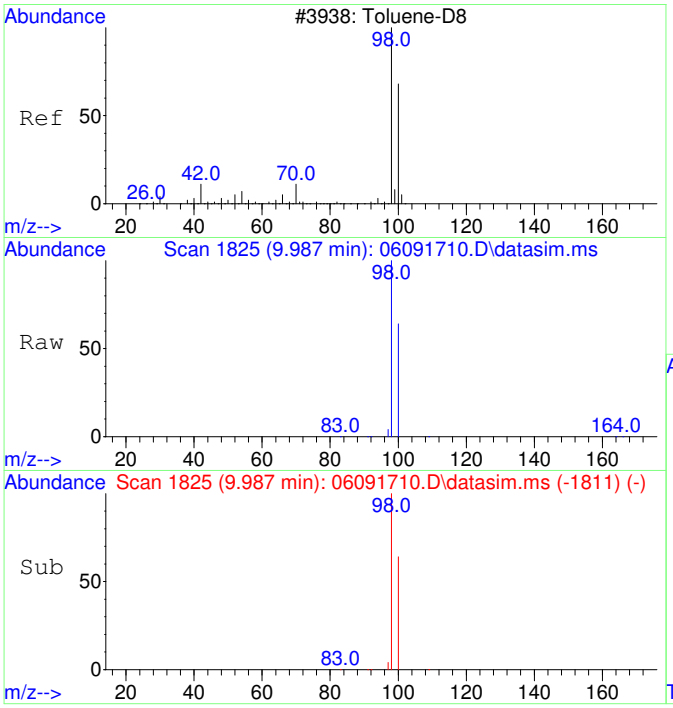


#11
Trichloroethene
Concen: 9717.73 ug/L
RT: 8.063 min Scan# 1525
Delta R.T. 0.000 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion:130 Resp: 411508

Ion	Ratio	Lower	Upper
130	100		
95	100.5	69.8	129.8
132	95.8	76.4	116.4
97	64.6	44.3	84.3

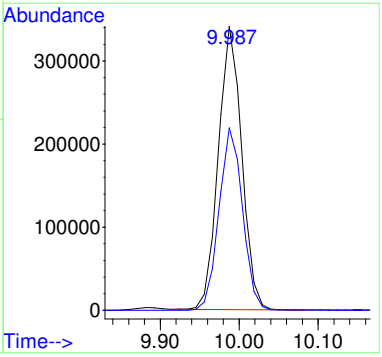


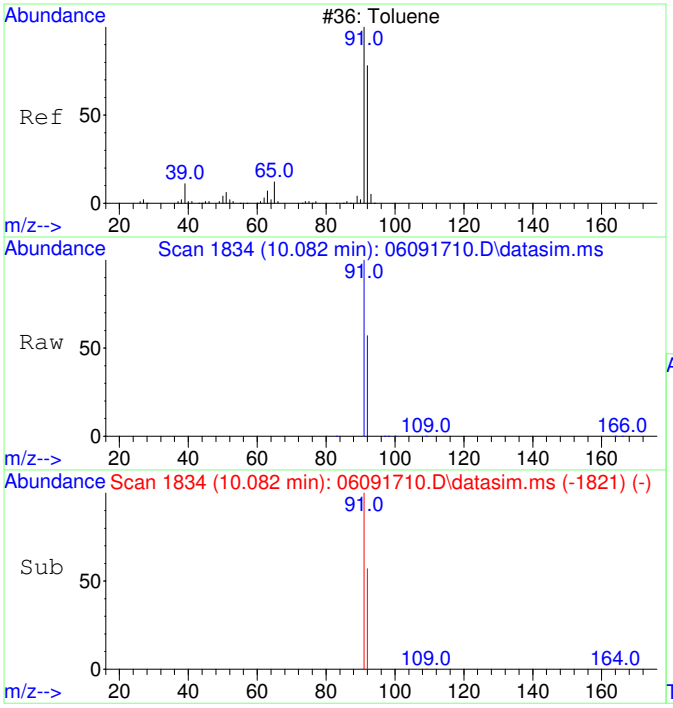


#12
Toluene-d8
Concen: 5145.78 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. 0.000 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 98 Resp: 699154

Ion	Ratio	Lower	Upper
98	100		
100	64.4	34.2	94.2

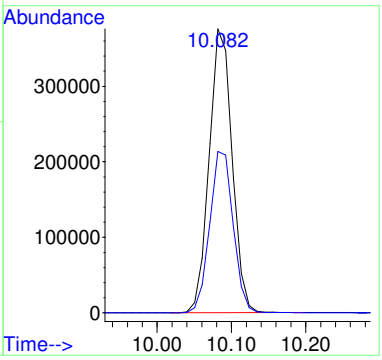


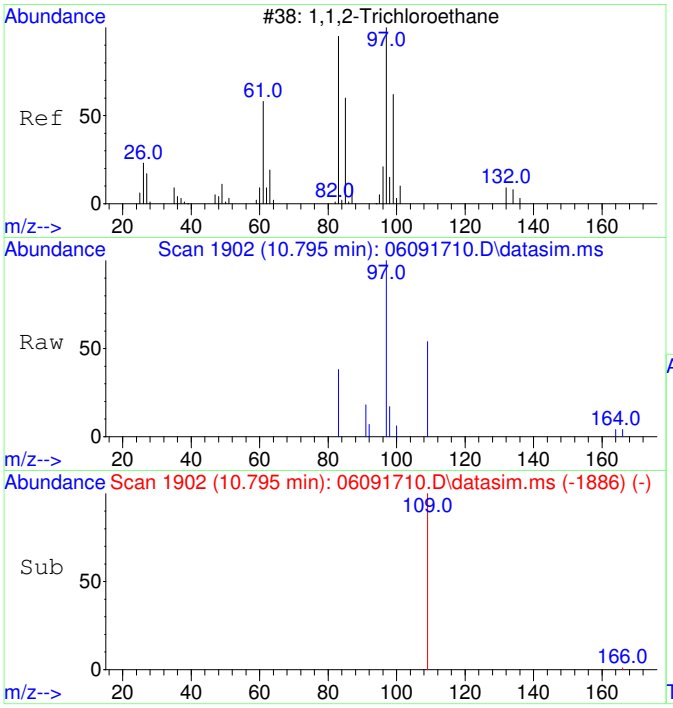


#13
Toluene
Concen: 4461.60 ug/L
RT: 10.082 min Scan# 1834
Delta R.T. -0.010 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 91 Resp: 802761

Ion	Ratio	Lower	Upper
91	100		
92	58.1	28.4	88.4

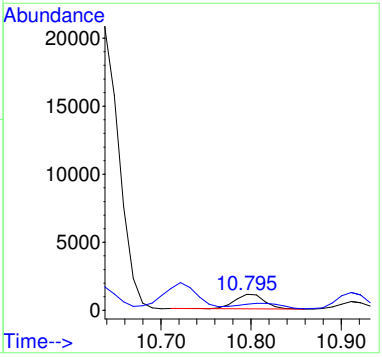


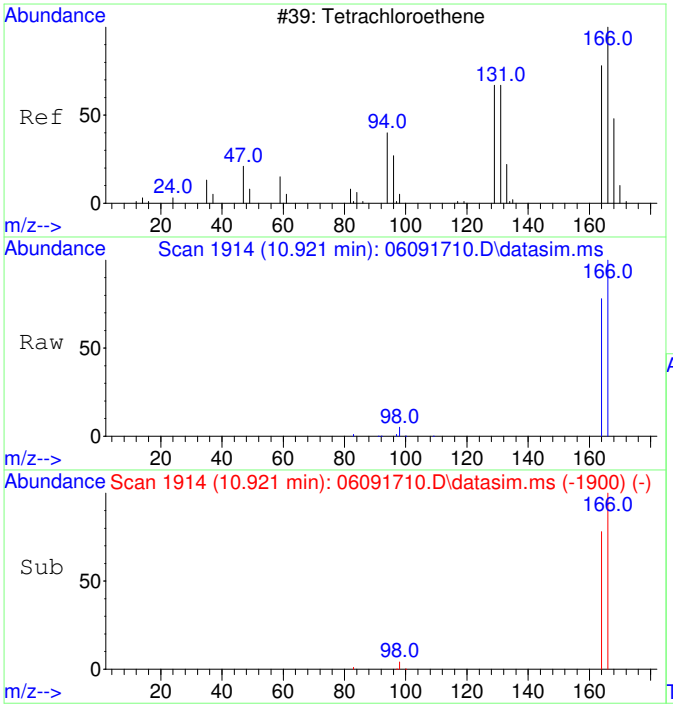


#14
1,1,2-Trichloroethane
Concen: 64.07 ug/L
RT: 10.795 min Scan# 1902
Delta R.T. 0.021 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 97 Resp: 2465

Ion	Ratio	Lower	Upper
97	100		
83	0.0	54.5	114.5#

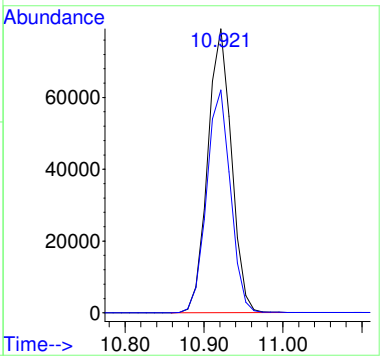


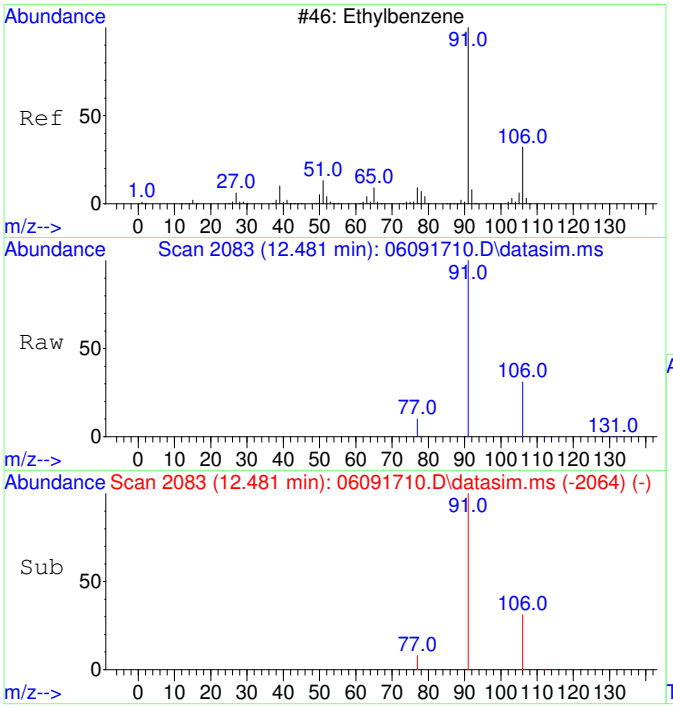


#15
Tetrachloroethene
Concen: 3575.48 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion:166 Resp: 164890

Ion	Ratio	Lower	Upper
166	100		
164	78.4	48.1	108.1

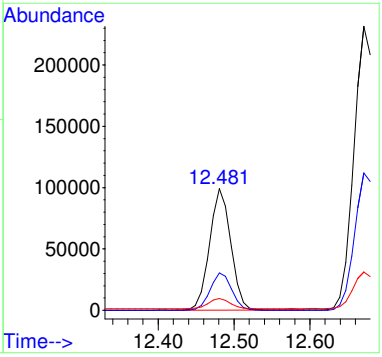


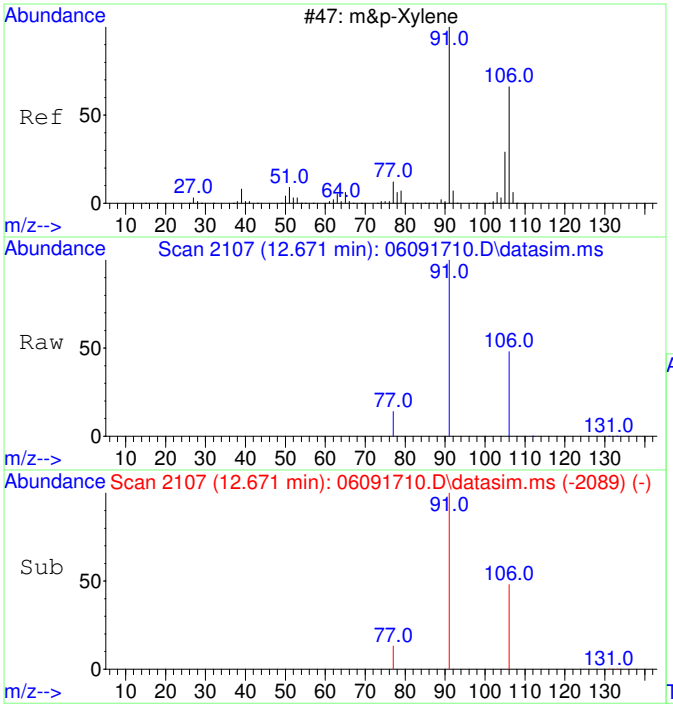


#18
Ethylbenzene
Concen: 989.63 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 91 Resp: 191631

Ion	Ratio	Lower	Upper
91	100		
106	31.1	1.2	61.2
77	8.5	0.0	38.6

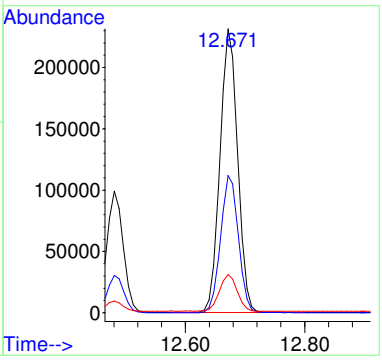


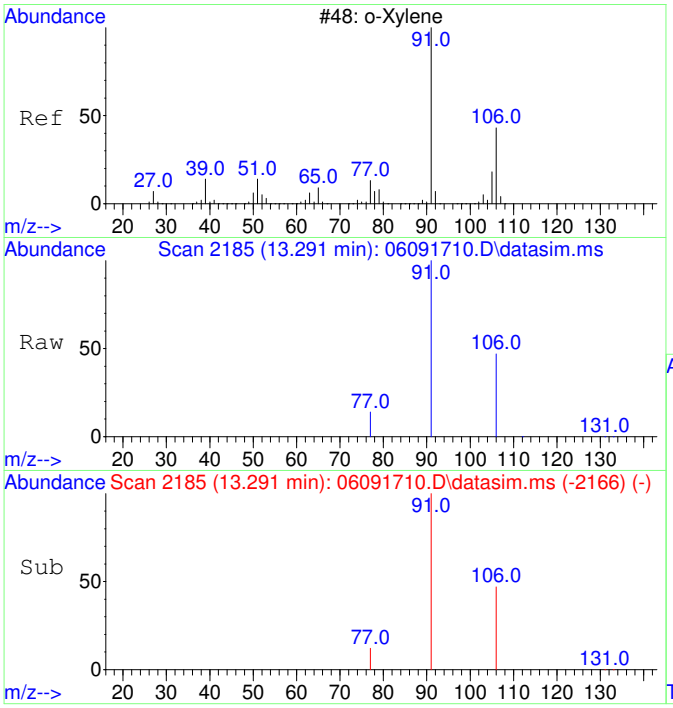


#19
m&p-Xylene
Concen: 3119.17 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 91 Resp: 473819

Ion	Ratio	Lower	Upper
91	100		
106	48.6	18.4	78.4
77	12.8	0.0	43.1

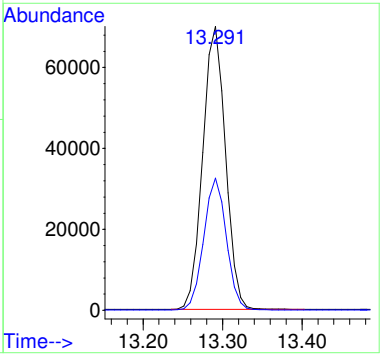


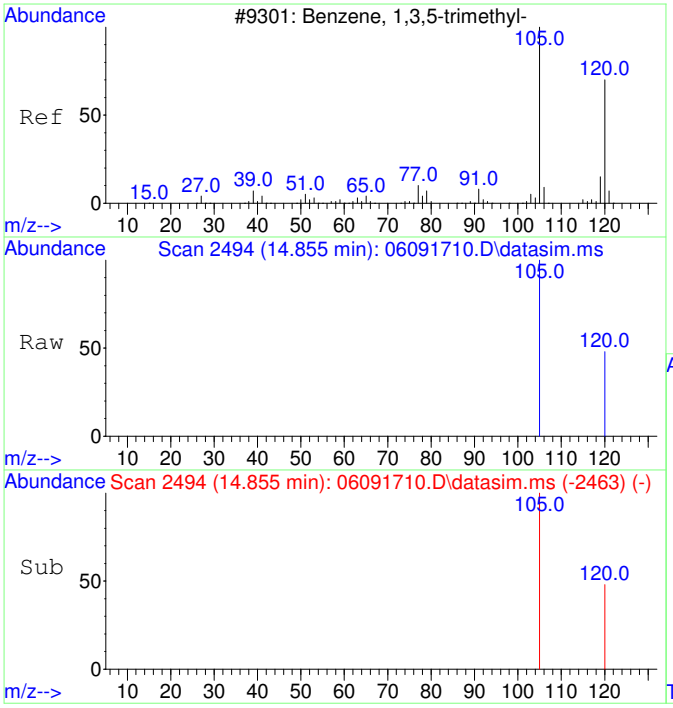


#20
o-Xylene
Concen: 883.61 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 91 Resp: 138816

Ion	Ratio	Lower	Upper
91	100		
106	46.0	16.0	76.0

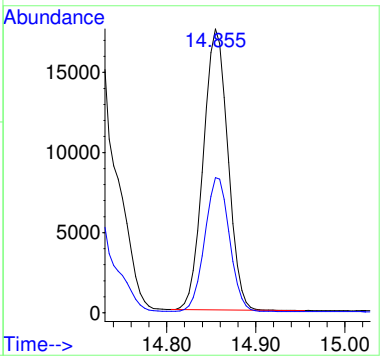


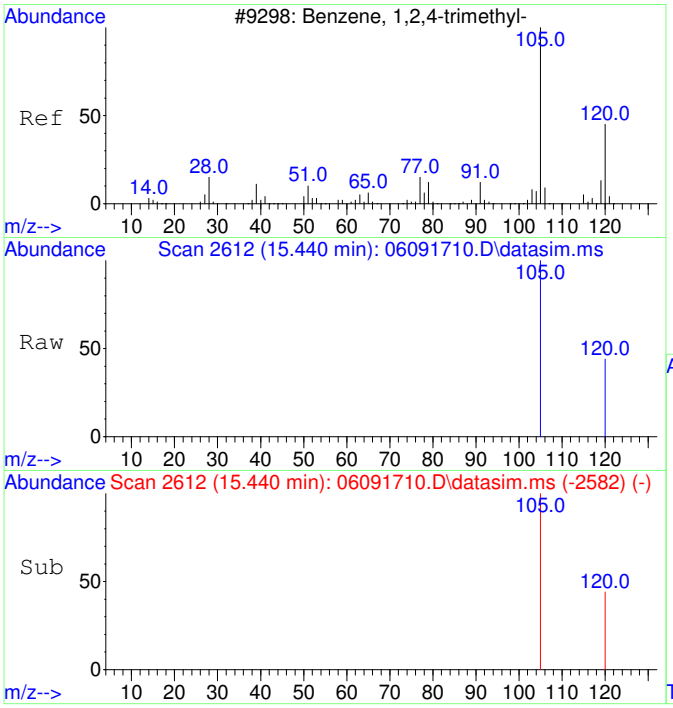


#22
1,3,5-Trimethylbenzene
Concen: 217.01 ug/L
RT: 14.855 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion:105 Resp: 33662

Ion	Ratio	Lower	Upper
105	100		
120	48.0	18.0	78.0

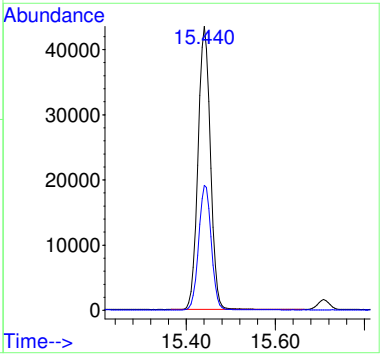


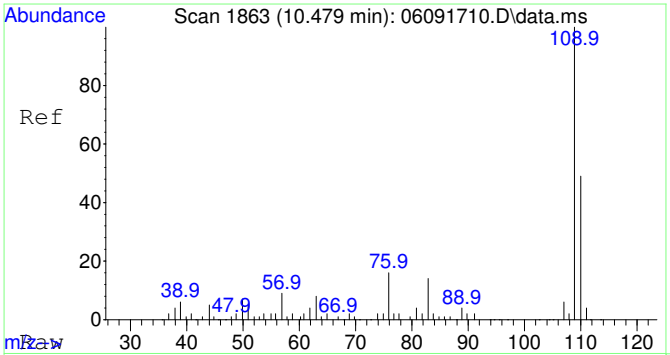


#23
1,2,4-Trimethylbenzene
Concen: 527.44 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion:105 Resp: 83875

Ion	Ratio	Lower	Upper
105	100		
120	44.7	14.4	74.4

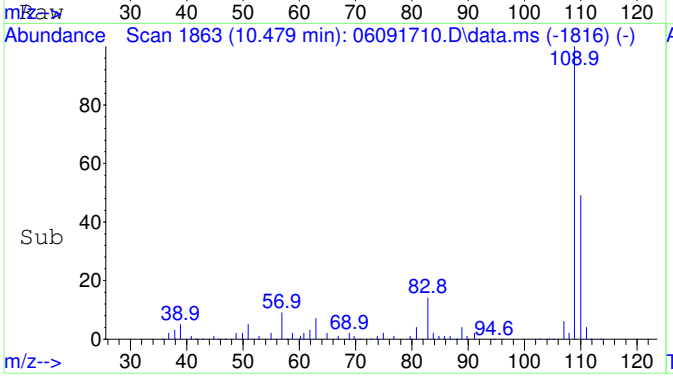


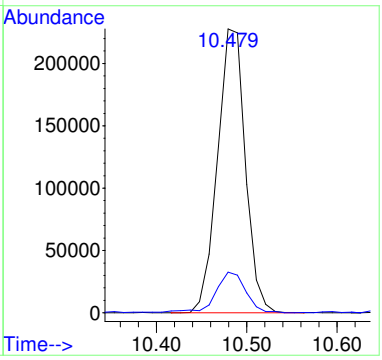


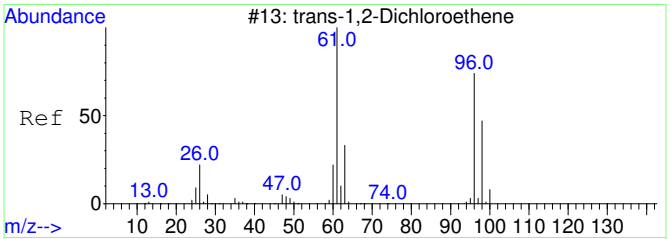
#25
2-Fluorotoluene SCAN
Concen: 4883.47 ug/L
RT: 10.479 min Scan# 1863
Delta R.T. -0.010 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion:109 Resp: 491220

Ion	Ratio	Lower	Upper
109	100		
83	15.0	0.0	46.1



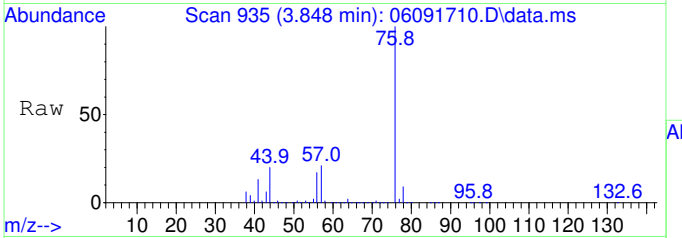


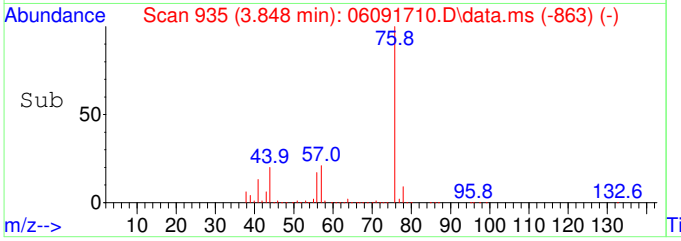


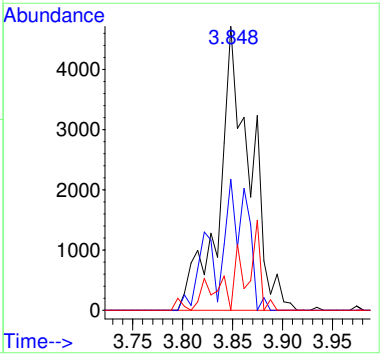
#27
trans-1,2-Dichloroethene SCAN
Concen: 225.70 ug/L
RT: 3.848 min Scan# 935
Delta R.T. -0.020 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

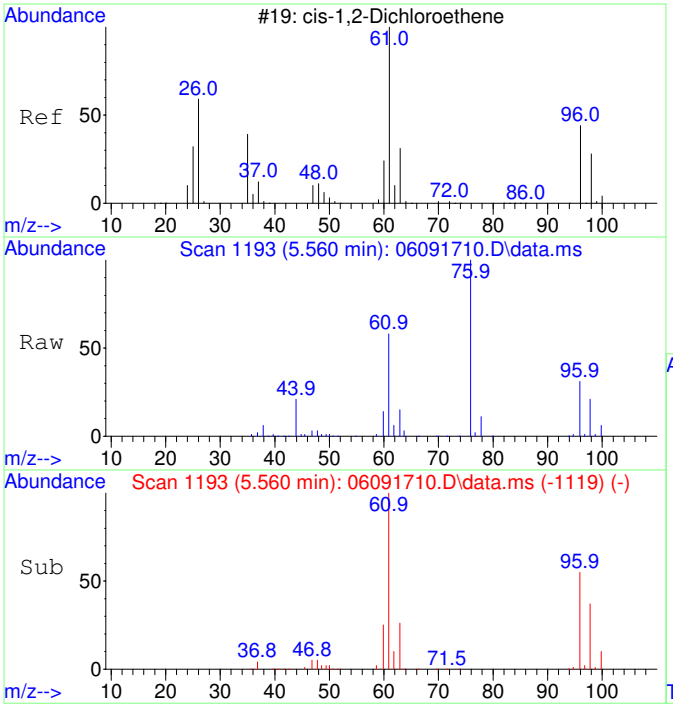
Tgt Ion: 61 Resp: 10194

Ion	Ratio	Lower	Upper
61	100		
96	28.6	26.1	86.1
98	0.0	4.4	64.4#





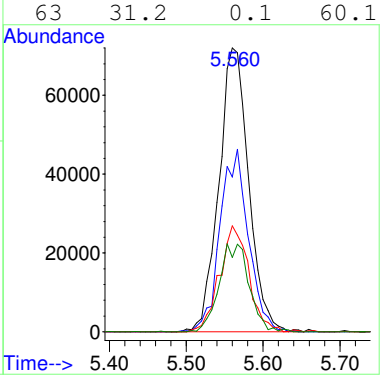


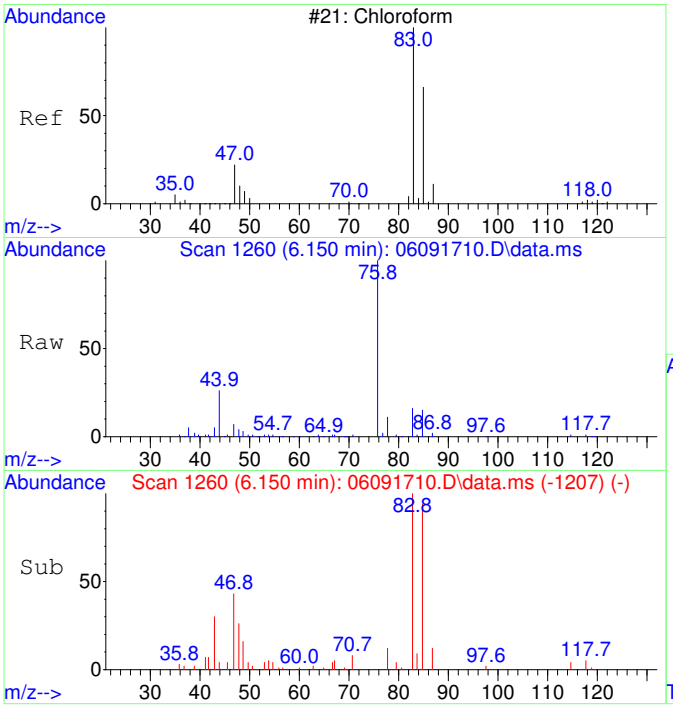


#29
cis-1,2-Dichloroethene SCAN
Concen: 3722.15 ug/L
RT: 5.560 min Scan# 1193
Delta R.T. -0.007 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 61 Resp: 193937

Ion	Ratio	Lower	Upper
61	100		
96	61.2	17.5	77.5
98	36.4	1.9	61.9
63	31.2	0.1	60.1

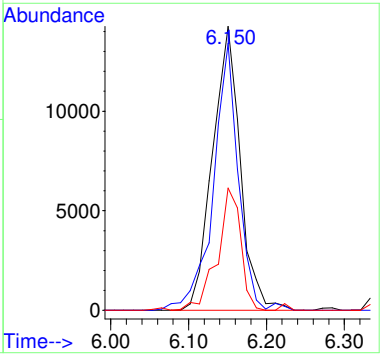


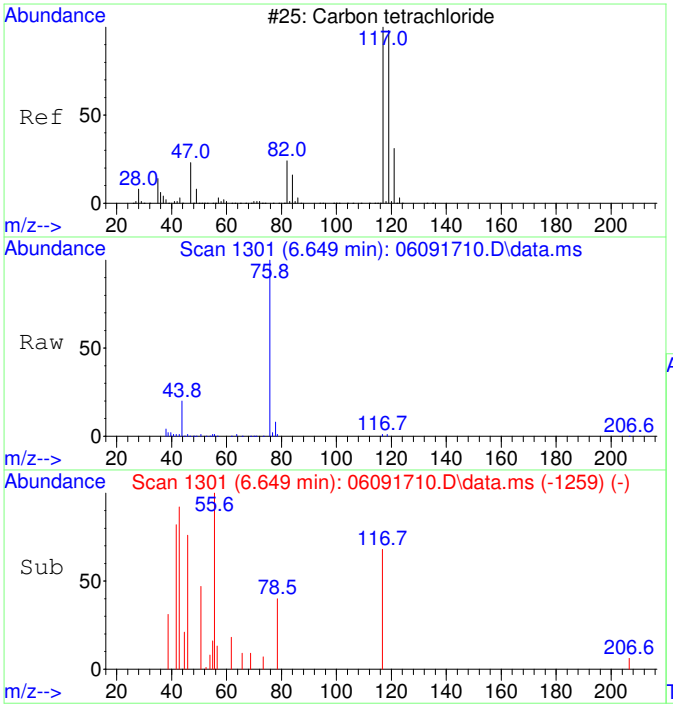


#30
Chloroform SCAN
Concen: 754.00 ug/L
RT: 6.150 min Scan# 1260
Delta R.T. 0.000 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 83 Resp: 35426

Ion	Ratio	Lower	Upper
83	100		
85	84.9	31.2	91.2
47	36.6	3.2	63.2

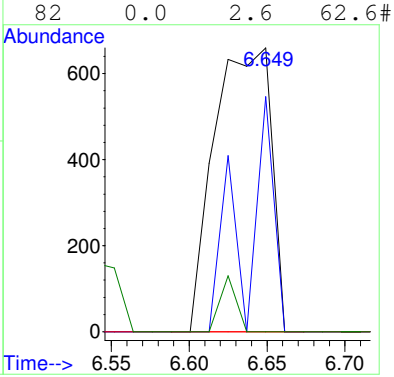


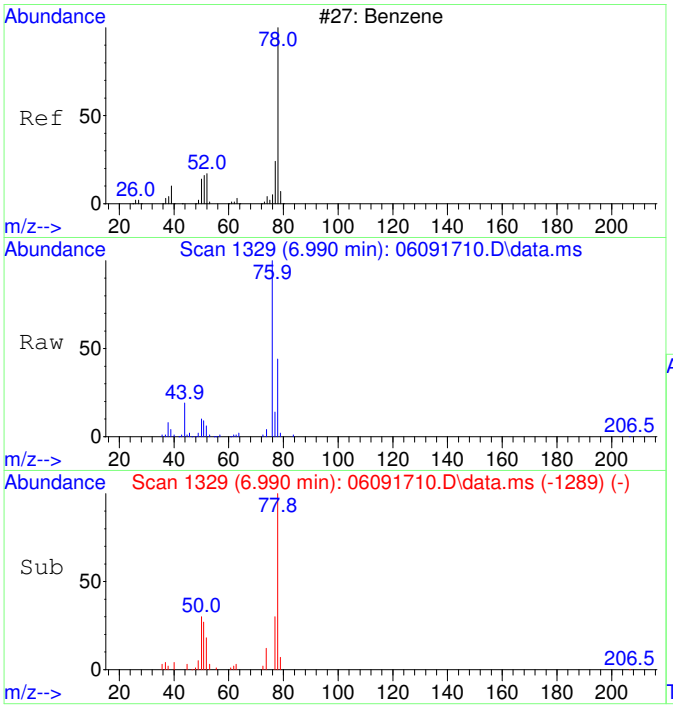


#32
Carbon tetrachloride SCAN
Concen: 47.20 ug/L
RT: 6.649 min Scan# 1301
Delta R.T. 0.012 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion:117 Resp: 1680

Ion	Ratio	Lower	Upper
117	100		
119	0.0	66.8	126.8#
121	0.0	0.4	60.4#
82	0.0	2.6	62.6#

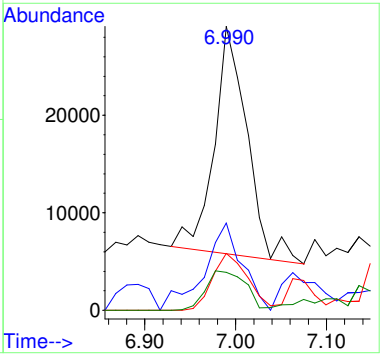


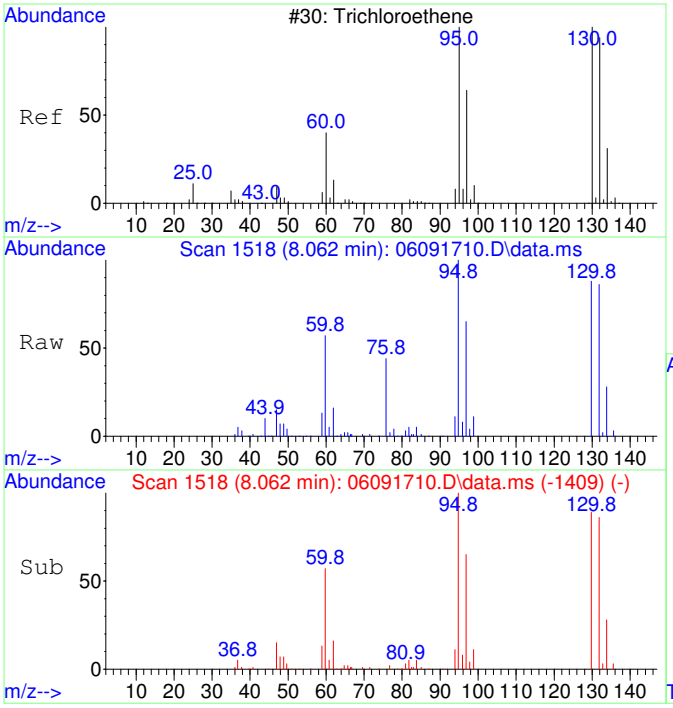


#33
Benzene SCAN
Concen: 546.38 ug/L
RT: 6.990 min Scan# 1329
Delta R.T. -0.012 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 78 Resp: 58182

Ion	Ratio	Lower	Upper
78	100		
77	44.9	0.0	55.2
51	24.6	0.0	52.4
52	19.6	0.0	53.3

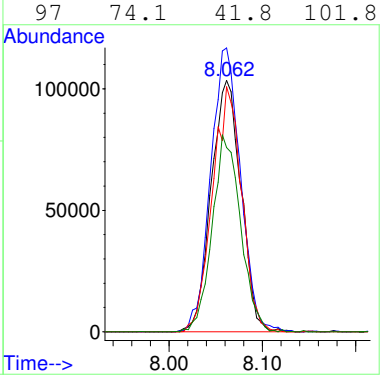


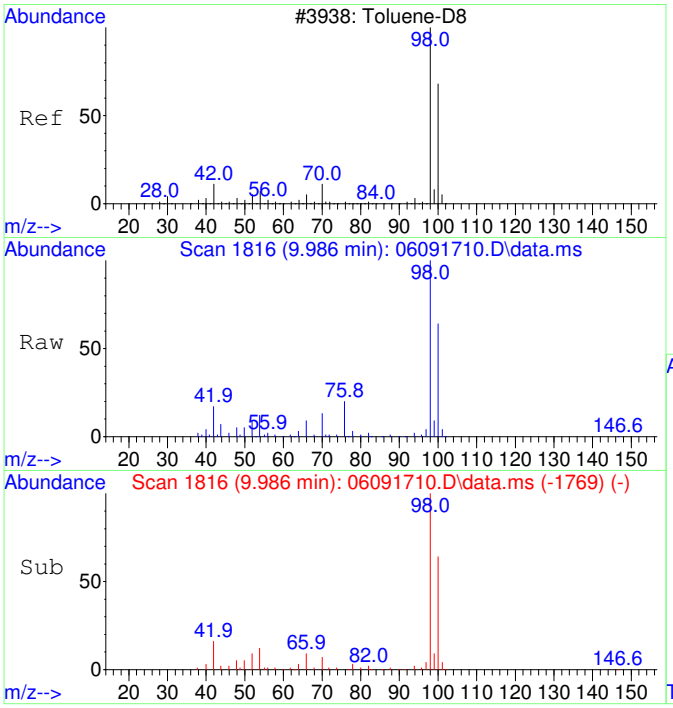


#35
Trichloroethene SCAN
Concen: 9317.42 ug/L
RT: 8.062 min Scan# 1518
Delta R.T. 0.000 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion:130 Resp: 229765

Ion	Ratio	Lower	Upper
130	100		
95	112.7	76.1	136.1
132	95.1	65.6	125.6
97	74.1	41.8	101.8

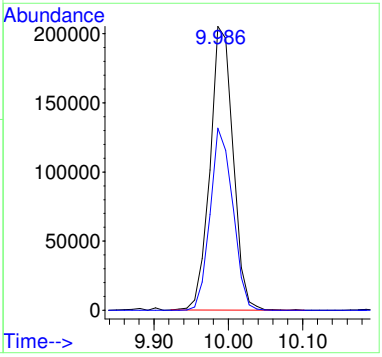


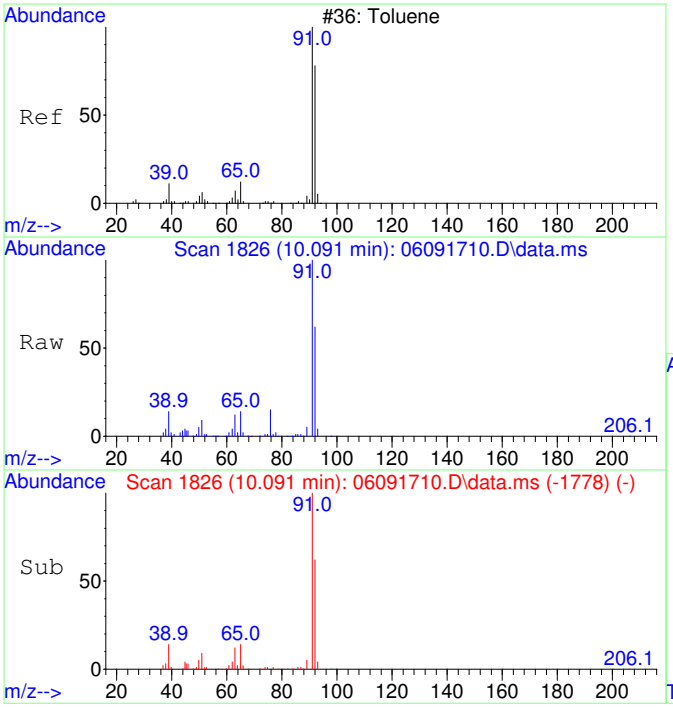


#36
Toluene-d8 SCAN
Concen: 5320.17 ug/L
RT: 9.986 min Scan# 1816
Delta R.T. -0.010 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 98 Resp: 441663

Ion	Ratio	Lower	Upper
98	100		
100	62.9	36.2	96.2

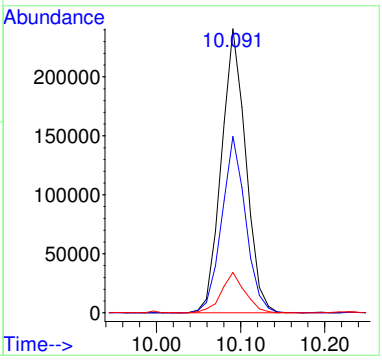


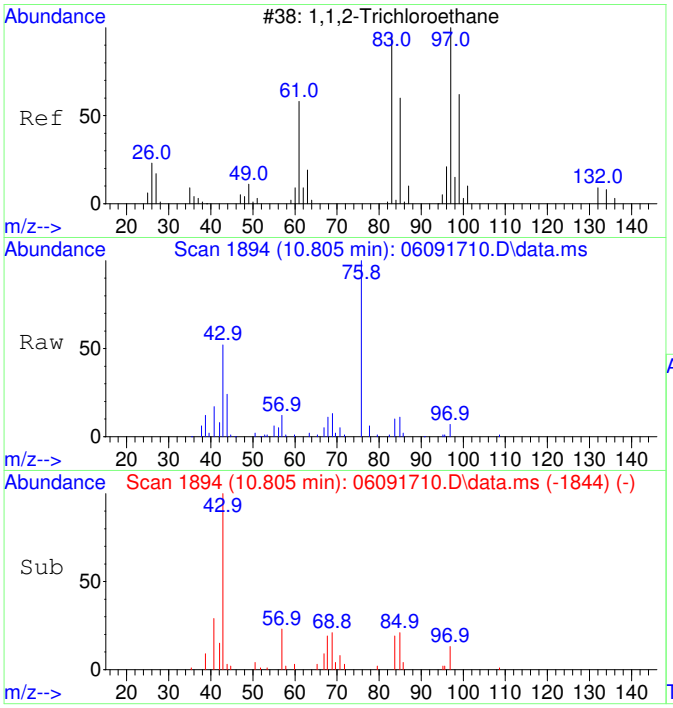


#37
Toluene SCAN
Concen: 4375.89 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 91 Resp: 484518

Ion	Ratio	Lower	Upper
91	100		
92	60.8	29.2	89.2
65	13.8	0.0	44.3

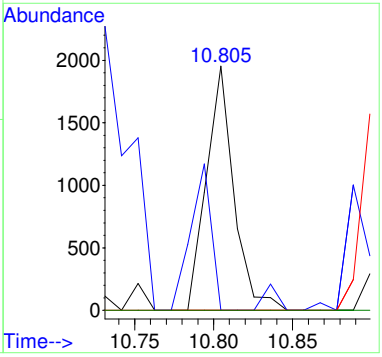


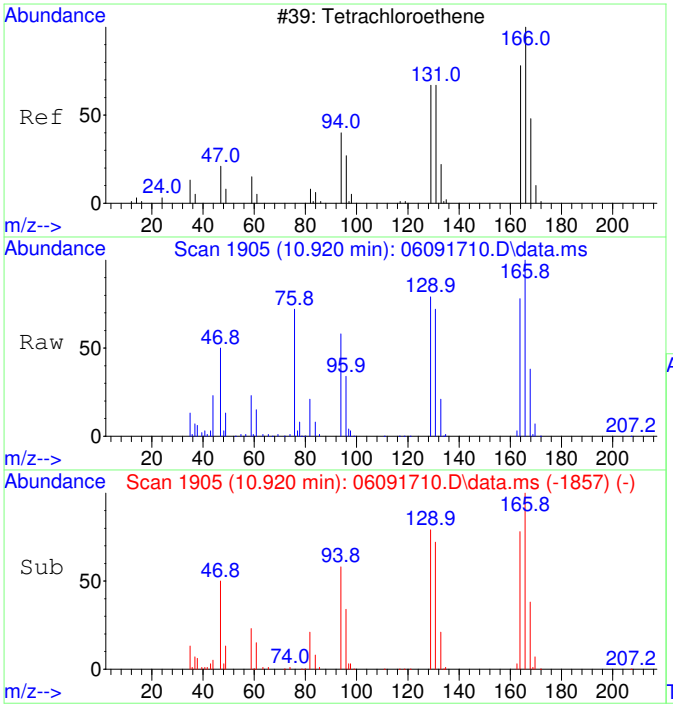


#38
1,1,2-Trichloroethane SCAN
Concen: 94.92 ug/L
RT: 10.805 min Scan# 1894
Delta R.T. 0.021 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 97 Resp: 2367

Ion	Ratio	Lower	Upper
97	100		
83	45.2	57.8	117.8#
61	0.0	48.6	108.6#
99	0.0	32.7	92.7#

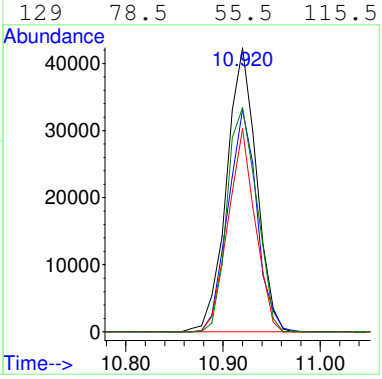


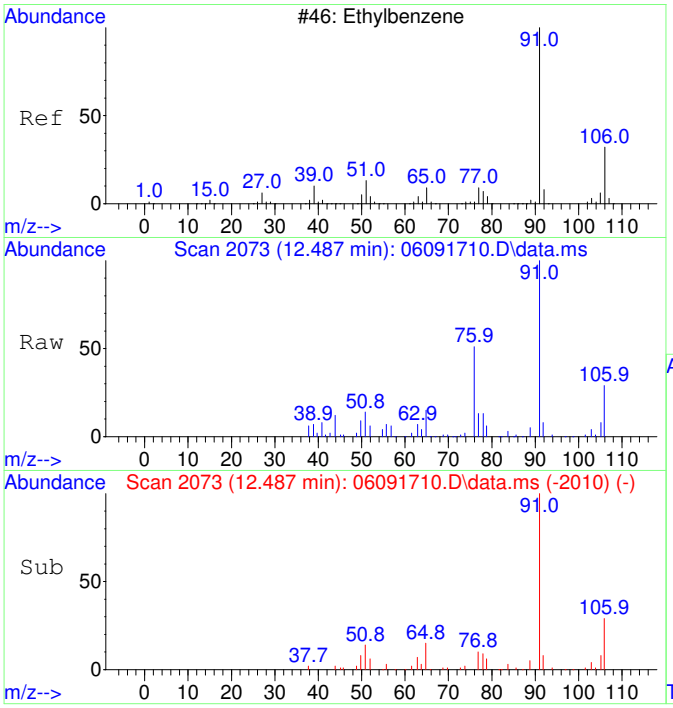


#39
Tetrachloroethene SCAN
Concen: 3972.02 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion:166 Resp: 90163

Ion	Ratio	Lower	Upper
166	100		
164	75.7	45.7	105.7
131	65.0	44.8	104.8
129	78.5	55.5	115.5

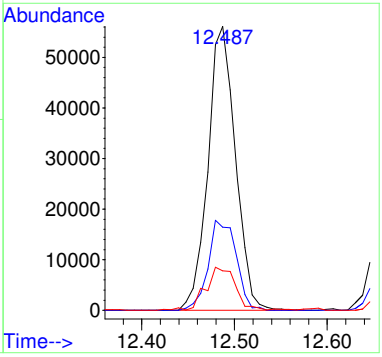


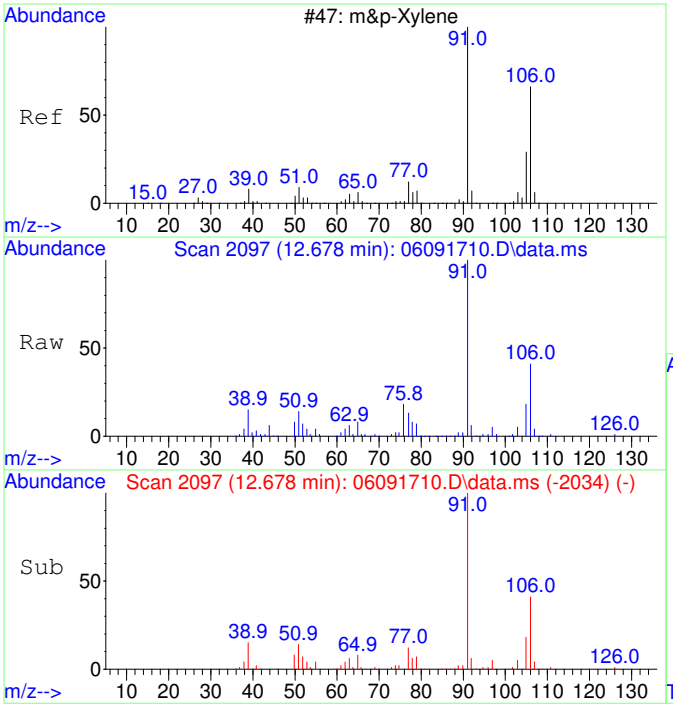


#42
Ethylbenzene SCAN
Concen: 932.73 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. 0.000 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 91 Resp: 115639

Ion	Ratio	Lower	Upper
91	100		
106	32.1	0.0	59.8
51	16.2	0.0	45.5

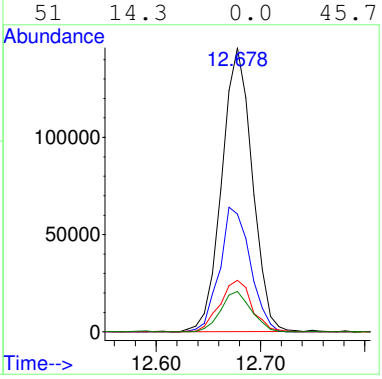


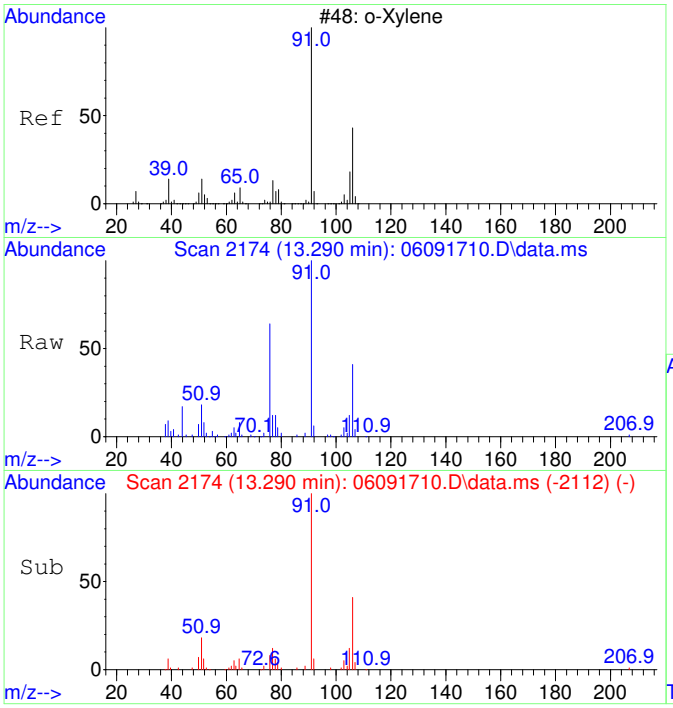


#43
m&p-Xylene SCAN
Concen: 1528.39 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 91 Resp: 295854

Ion	Ratio	Lower	Upper
91	100		
106	44.1	18.5	78.5
105	19.1	0.0	51.3
51	14.3	0.0	45.7

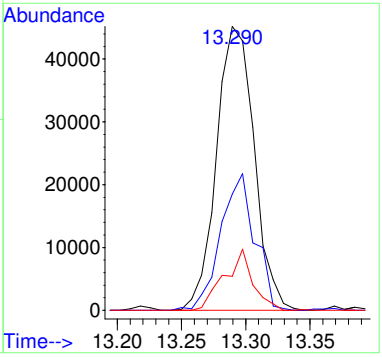


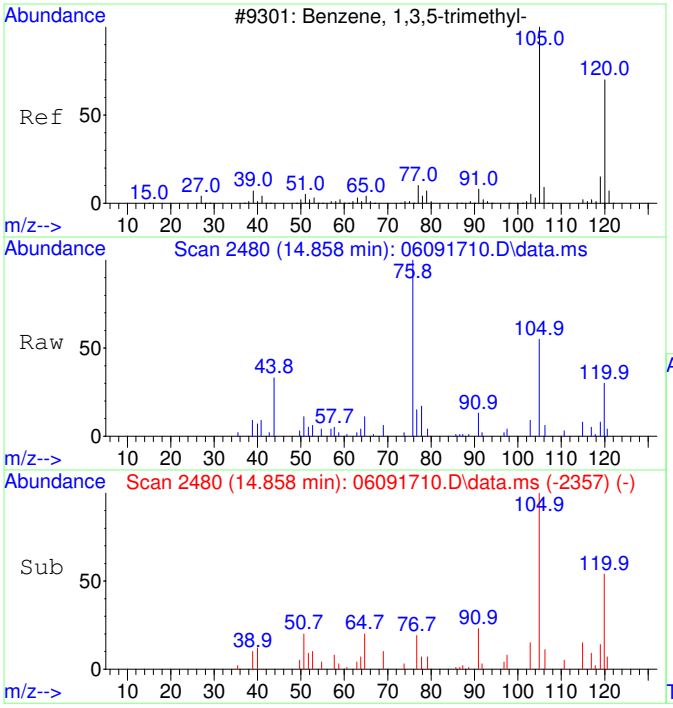


#44
o-Xylene SCAN
Concen: 925.06 ug/L
RT: 13.290 min Scan# 2174
Delta R.T. -0.008 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion: 91 Resp: 92209

Ion	Ratio	Lower	Upper
91	100		
106	43.7	15.5	75.5
105	16.3	0.0	54.1

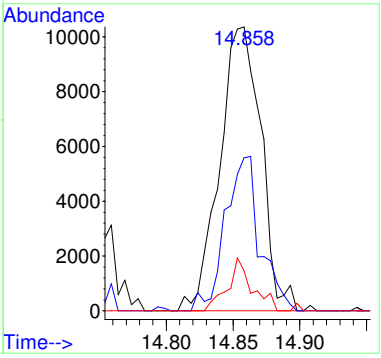


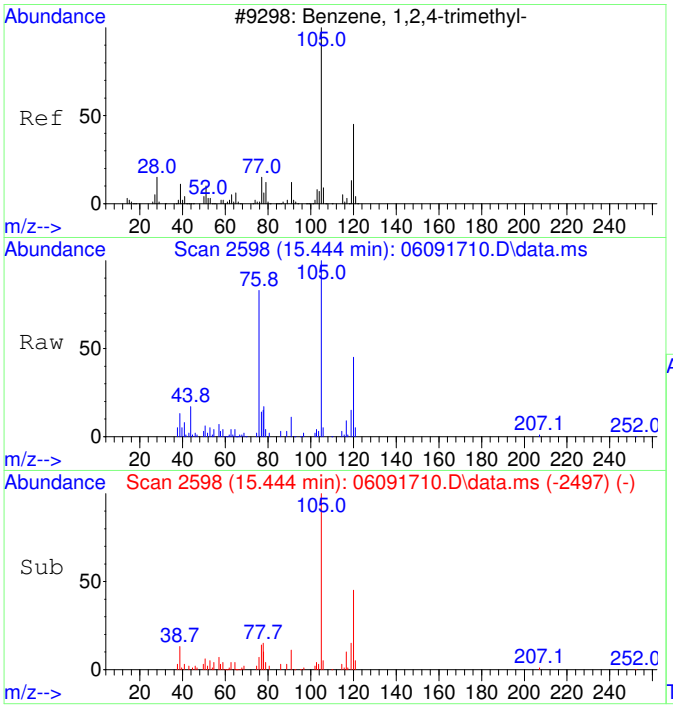


#46
1,3,5-Trimethylbenzene SCAN
Concen: 236.23 ug/L
RT: 14.858 min Scan# 2480
Delta R.T. 0.001 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion:105 Resp: 22336

Ion	Ratio	Lower	Upper
105	100		
120	45.6	17.3	77.3
119	11.0	0.0	42.7

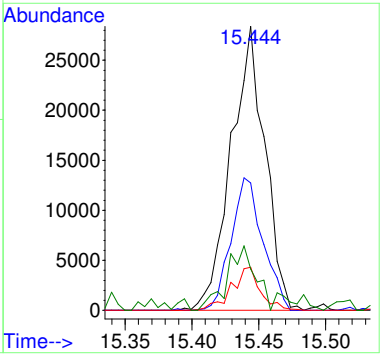




#47
1,2,4-Trimethylbenzene SCAN
Concen: 508.87 ug/L
RT: 15.444 min Scan# 2598
Delta R.T. 0.001 min
Lab File: 06091710.D
Acq: 9 Jun 2017 14:06

Tgt Ion:105 Resp: 50140

Ion	Ratio	Lower	Upper
105	100		
120	44.0	12.9	72.9
119	12.9	0.0	40.5
77	19.0	0.0	43.3



1706012-03

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091711.D
Acq On : 9 Jun 2017 14:30
InstName : AG5975C
Operator : RH
Sample : 1706012-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 09 16:57:20 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

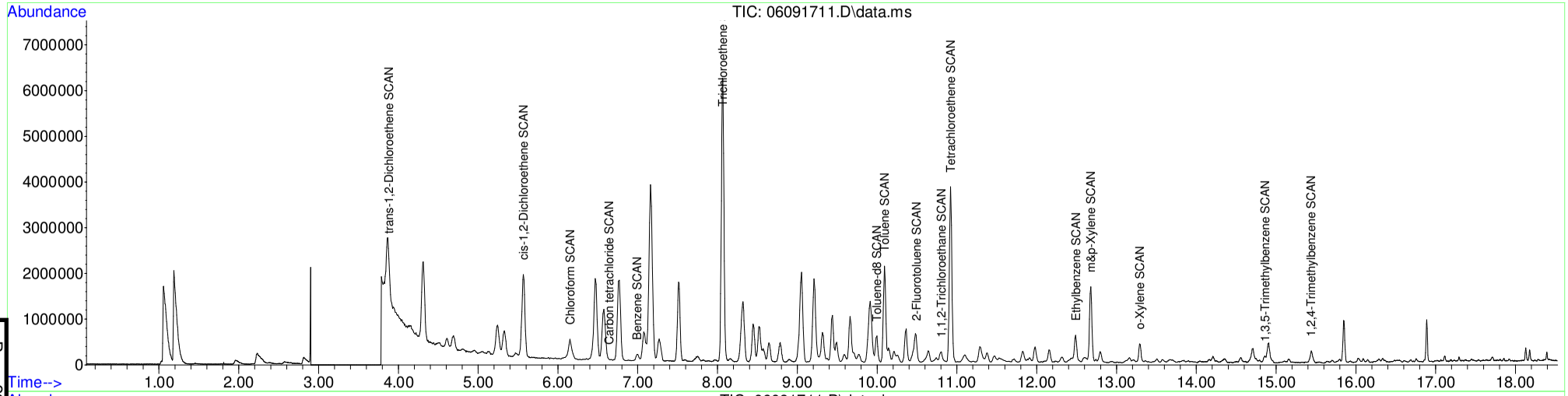
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.481	109	815605	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.988	98	684934	5127.88 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 102.56%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.715	61	6446	100.21 ug/L	95
3] trans-1,2-Dichloroethene	3.863	61	153022	2194.90 ug/L	96
5] cis-1,2-Dichloroethene	5.561	61	2431592	33851.01 ug/L	100
6] Chloroform	6.152	83	591196	8505.36 ug/L	97
8] Carbon tetrachloride	6.639	117	2778	50.44 ug/L	99
9] Benzene	6.991	78	208770	1289.73 ug/L	98
10] 1,2-Dichloroethane	7.064	62	1668	27.81 ug/L	71
11] Trichloroethene	8.063	130	4029684	96798.48 ug/L	100
13] Toluene	10.082	91	2741311	15497.91 ug/L	100
14] 1,1,2-Trichloroethane	10.796	97	9597	253.73 ug/L #	7
15] Tetrachloroethene	10.922	166	2365883	52184.85 ug/L	100
18] Ethylbenzene	12.481	91	684320	3594.82 ug/L	100
19] m&p-Xylene	12.671	91	1777877	11905.26 ug/L	100
20] o-Xylene	13.291	91	452221	2928.08 ug/L	100
22] 1,3,5-Trimethylbenzene	14.855	105	121453	796.45 ug/L	100
23] 1,2,4-Trimethylbenzene	15.440	105	260408	1665.75 ug/L	99
25) 2-Fluorotoluene SCAN	10.490	109	479550	4849.50 ug/L	98
27) trans-1,2-Dichloroethe...	3.875	61	106536	2399.33 ug/L	99
29) cis-1,2-Dichloroethene...	5.567	61	1665595	32517.24 ug/L	90
30) Chloroform SCAN	6.151	83	369715	8004.42 ug/L	93
32) Carbon tetrachloride SCAN	6.637	117	1664	47.55 ug/L #	74
33) Benzene SCAN	6.990	78	145647	1391.29 ug/L	95
35) Trichloroethene SCAN	8.062	130	2197881	90662.31 ug/L	97
36) Toluene-d8 SCAN	9.997	98	423179	5185.25 ug/L	94
37) Toluene SCAN	10.091	91	1679459	15428.98 ug/L	98
38) 1,1,2-Trichloroethane ...	10.805	97	7403	301.98 ug/L #	36
39) Tetrachloroethene SCAN	10.920	166	1153233	51678.69 ug/L	96
42) Ethylbenzene SCAN	12.487	91	429400	3523.09 ug/L	98
43) m&p-Xylene SCAN	12.678	91	1055794	5548.13 ug/L	99
44) o-Xylene SCAN	13.290	91	268252	2737.47 ug/L	95
46) 1,3,5-Trimethylbenzene...	14.858	105	76498	822.99 ug/L	91
47) 1,2,4-Trimethylbenzene...	15.439	105	149515	1543.55 ug/L	95

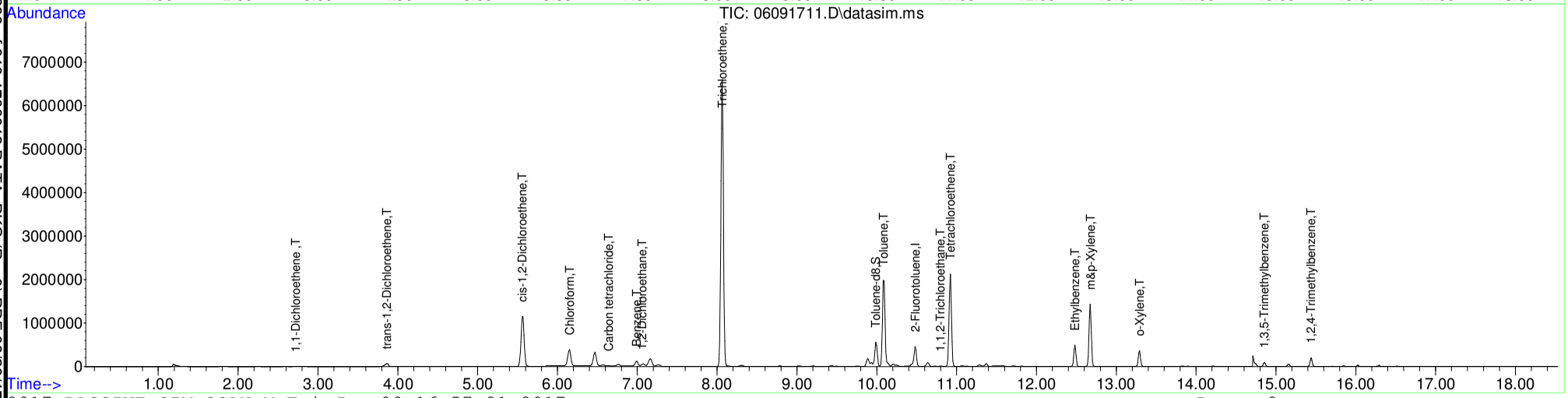
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091711.D
Acq On : 9 Jun 2017 14:30
InstName : AG5975C
Operator : RH
Sample : 1706012-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 09 16:57:20 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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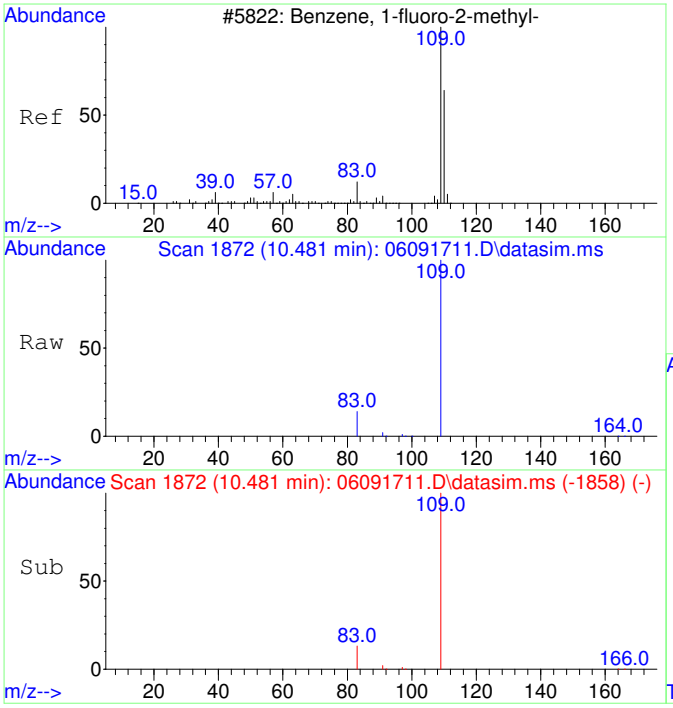
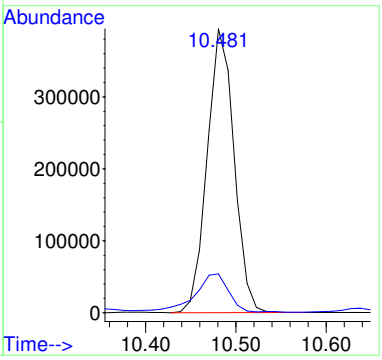
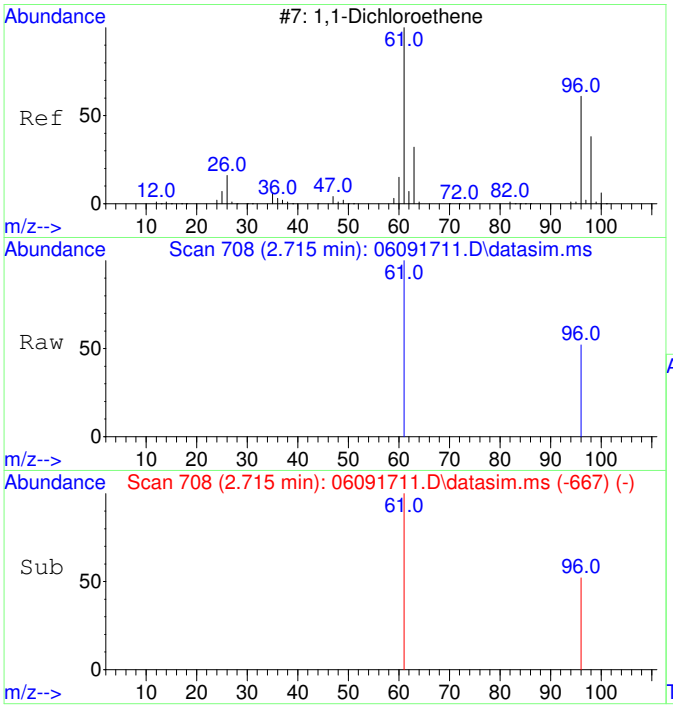


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.481 min Scan# 1872
Delta R.T. 0.001 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:109 Resp: 815605

Ion	Ratio	Lower	Upper
109	100		
83	15.5	0.0	44.4

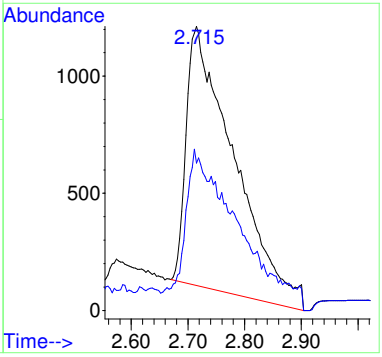




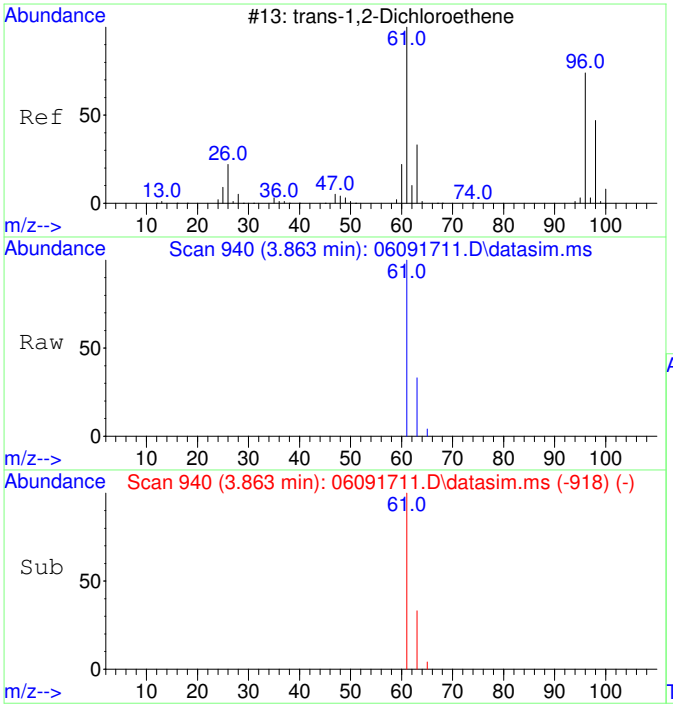
#2
1,1-Dichloroethene
Concen: 100.21 ug/L
RT: 2.715 min Scan# 708
Delta R.T. 0.004 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 61 Resp: 6446

Ion	Ratio	Lower	Upper
61	100		
96	55.5	21.8	81.8



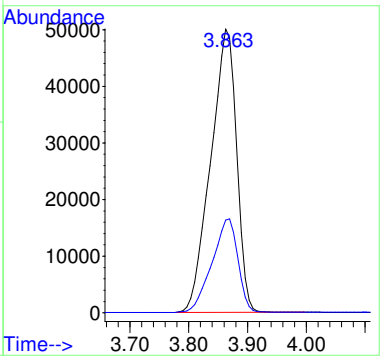
Before MI:
IMPROPER
BASELINE

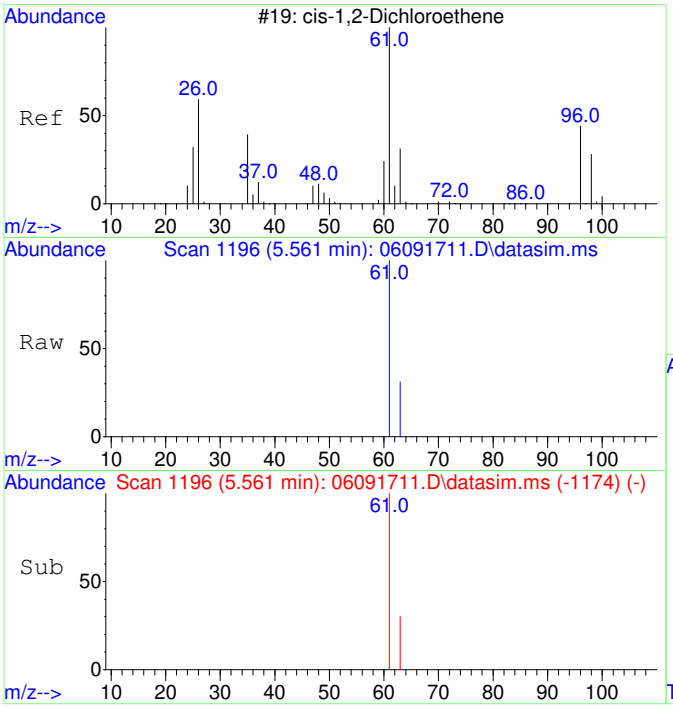


#3
trans-1,2-Dichloroethene
Concen: 2194.90 ug/L
RT: 3.863 min Scan# 940
Delta R.T. -0.006 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 61 Resp: 153022

Ion	Ratio	Lower	Upper
61	100		
63	33.0	1.0	61.0

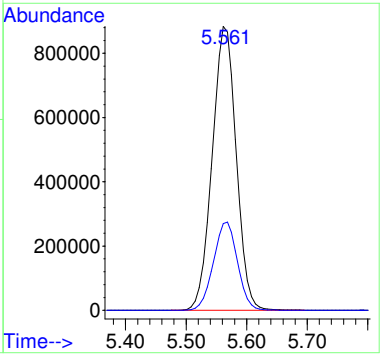


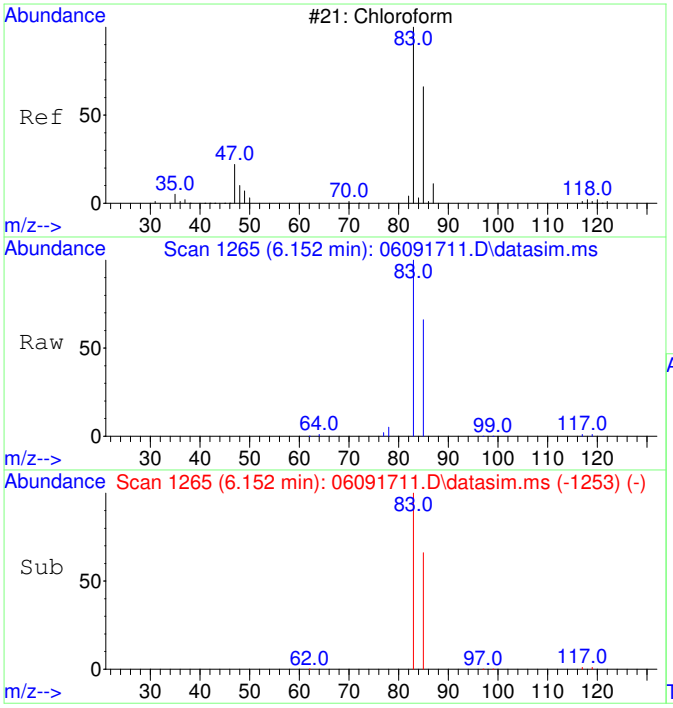


#5
cis-1,2-Dichloroethene
Concen: 33851.01 ug/L
RT: 5.561 min Scan# 1196
Delta R.T. -0.006 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 61 Resp: 2431592

Ion	Ratio	Lower	Upper
61	100		
63	31.1	0.9	60.9

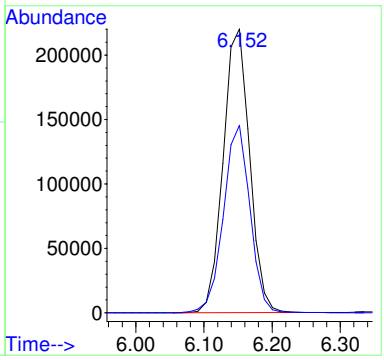


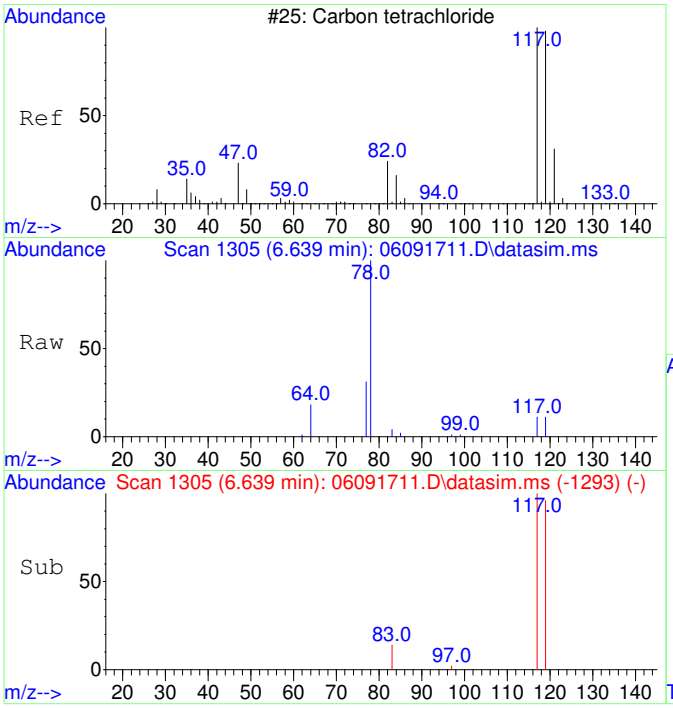


#6
Chloroform
Concen: 8505.36 ug/L
RT: 6.152 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 83 Resp: 591196

Ion	Ratio	Lower	Upper
83	100		
85	66.1	33.7	93.7

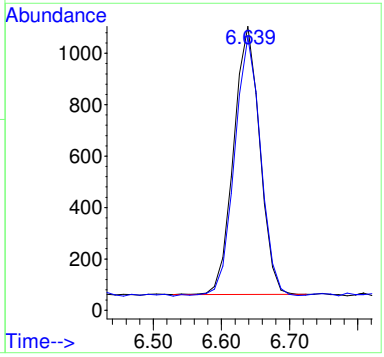


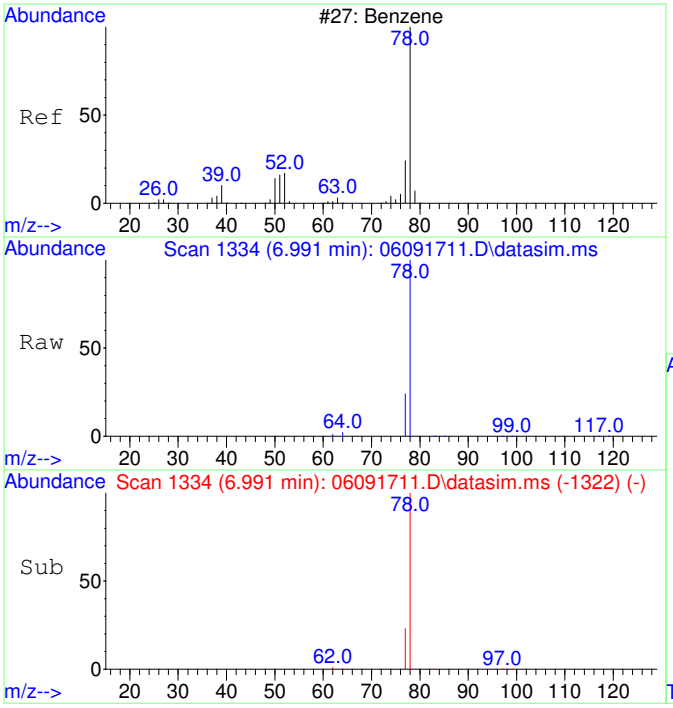


#8
Carbon tetrachloride
Concen: 50.44 ug/L
RT: 6.639 min Scan# 1305
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:117 Resp: 2778

Ion	Ratio	Lower	Upper
117	100		
119	94.6	65.5	125.5

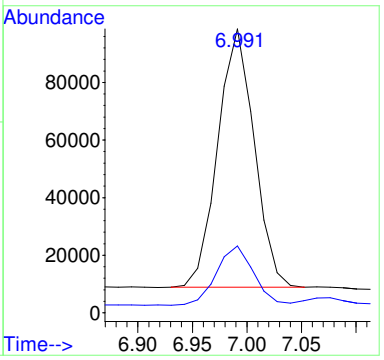


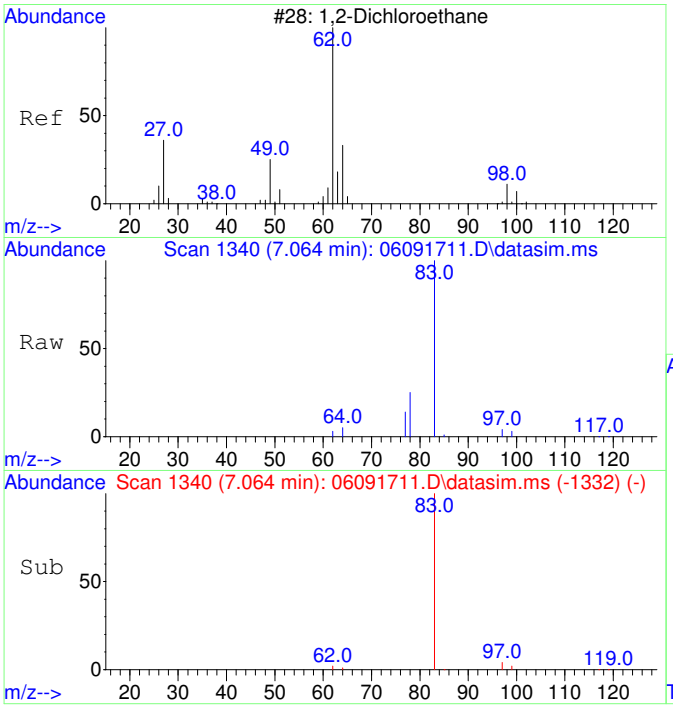


#9
Benzene
Concen: 1289.73 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 78 Resp: 208770

Ion	Ratio	Lower	Upper
78	100		
77	22.2	0.0	53.0

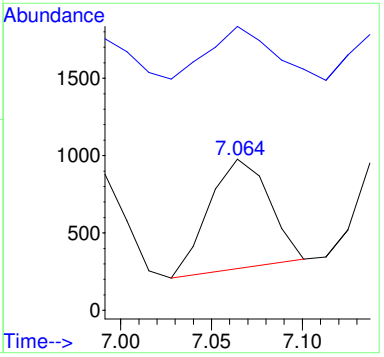


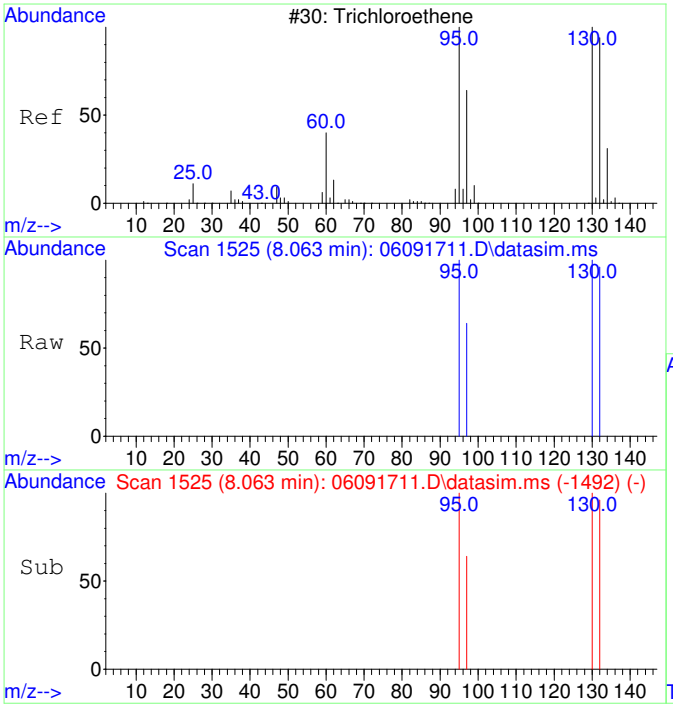


#10
1,2-Dichloroethane
Concen: 27.81 ug/L
RT: 7.064 min Scan# 1340
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 62 Resp: 1668

Ion	Ratio	Lower	Upper
62	100		
64	48.7	2.6	62.6

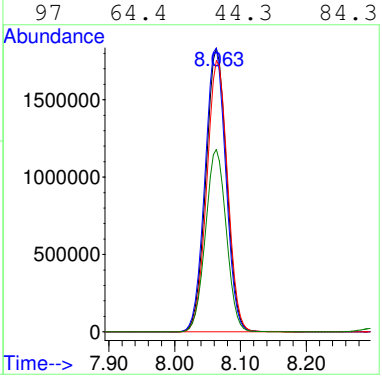


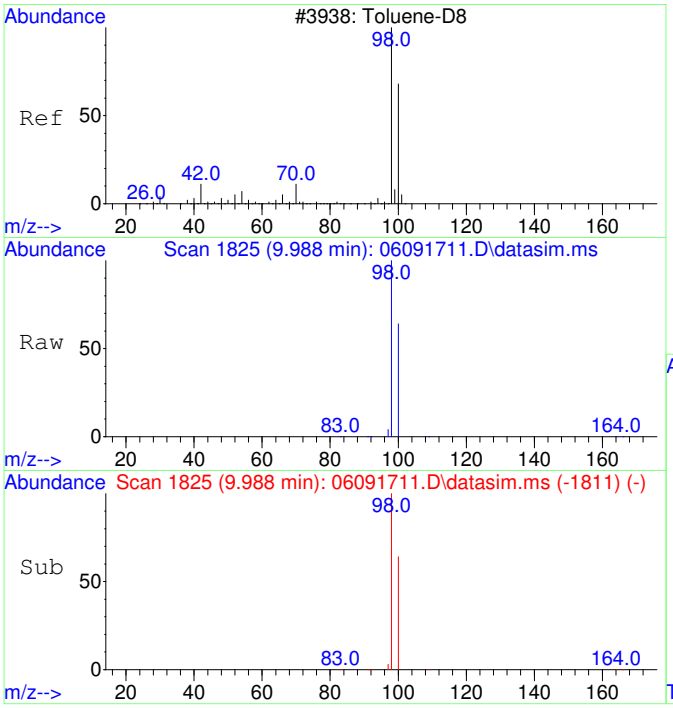


#11
Trichloroethene
Concen: 96798.48 ug/L
RT: 8.063 min Scan# 1525
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:130 Resp: 4029684

Ion	Ratio	Lower	Upper
130	100		
95	100.3	69.8	129.8
132	96.0	76.4	116.4
97	64.4	44.3	84.3

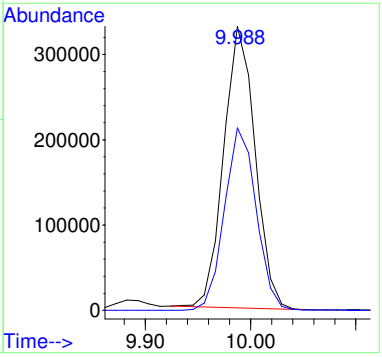


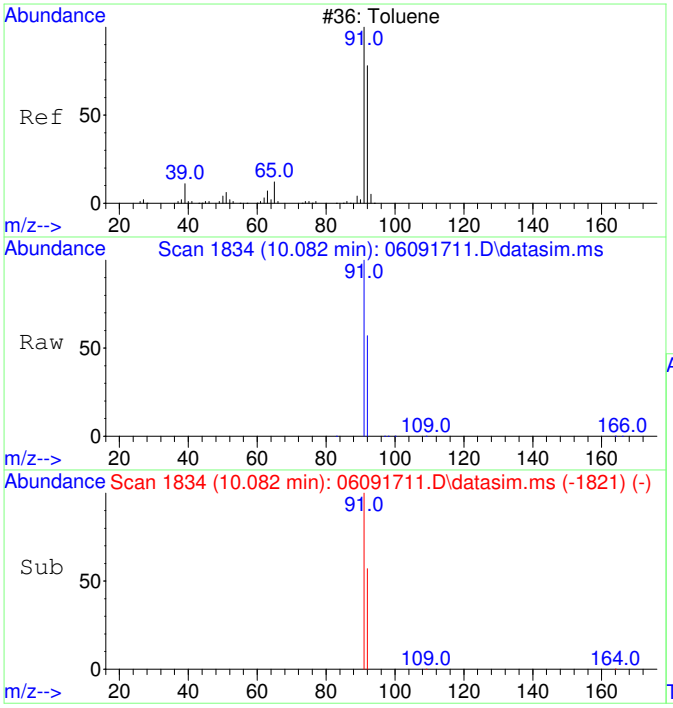


#12
Toluene-d8
Concen: 5127.88 ug/L
RT: 9.988 min Scan# 1825
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 98 Resp: 684934

Ion	Ratio	Lower	Upper
98	100		
100	65.3	34.2	94.2

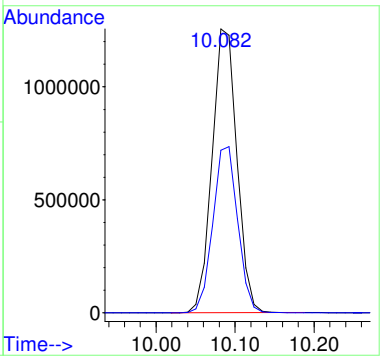


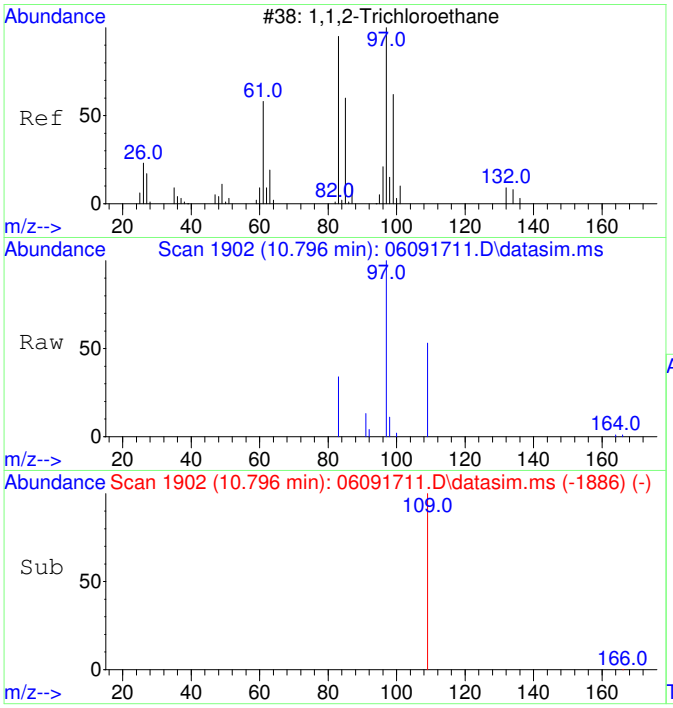


#13
Toluene
Concen: 15497.91 ug/L
RT: 10.082 min Scan# 1834
Delta R.T. -0.010 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 2741311

Ion	Ratio	Lower	Upper
91	100		
92	58.4	28.4	88.4

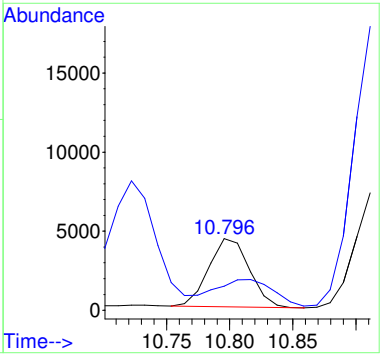


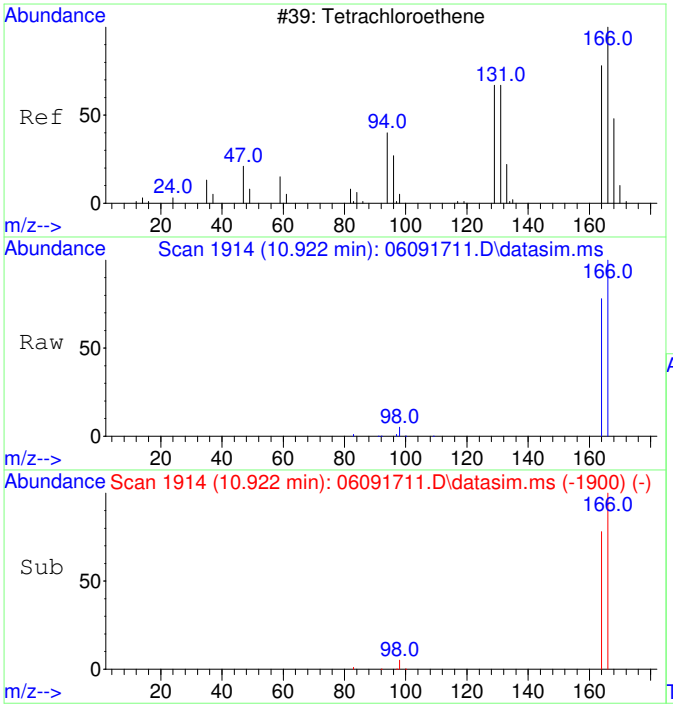


#14
1,1,2-Trichloroethane
Concen: 253.73 ug/L
RT: 10.796 min Scan# 1902
Delta R.T. 0.021 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 97 Resp: 9597

Ion	Ratio	Lower	Upper
97	100		
83	0.0	54.5	114.5#

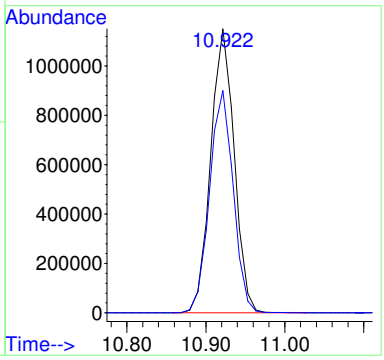


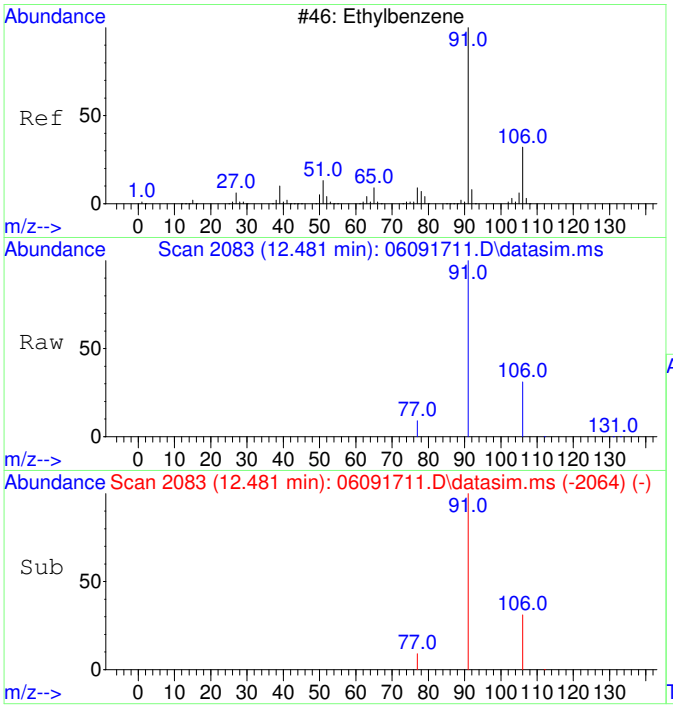


#15
Tetrachloroethene
Concen: 52184.85 ug/L
RT: 10.922 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:166 Resp: 2365883

Ion	Ratio	Lower	Upper
166	100		
164	78.2	48.1	108.1

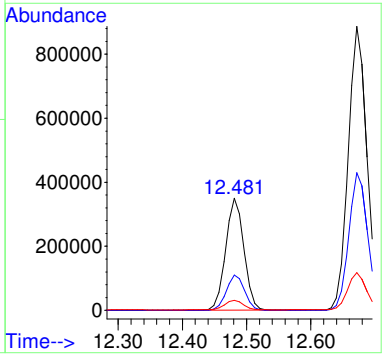


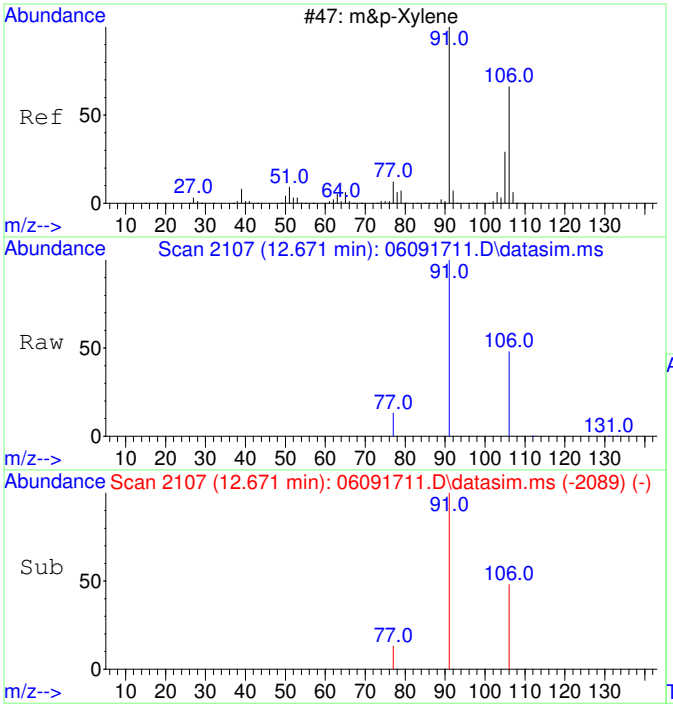


#18
Ethylbenzene
Concen: 3594.82 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 684320

Ion	Ratio	Lower	Upper
91	100		
106	31.5	1.2	61.2
77	8.6	0.0	38.6

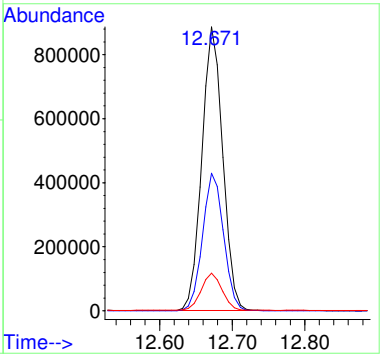


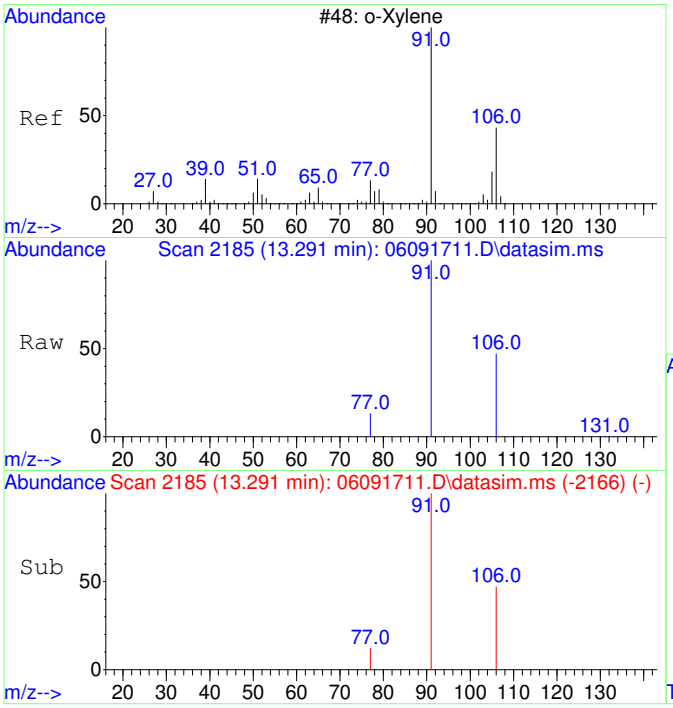


#19
m&p-Xylene
Concen: 11905.26 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 1777877

Ion	Ratio	Lower	Upper
91	100		
106	48.7	18.4	78.4
77	12.9	0.0	43.1

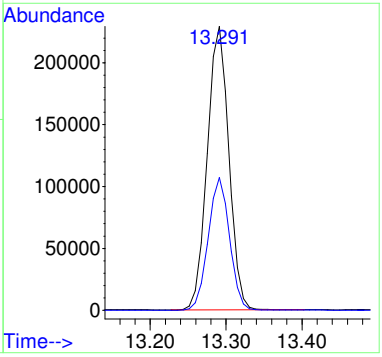


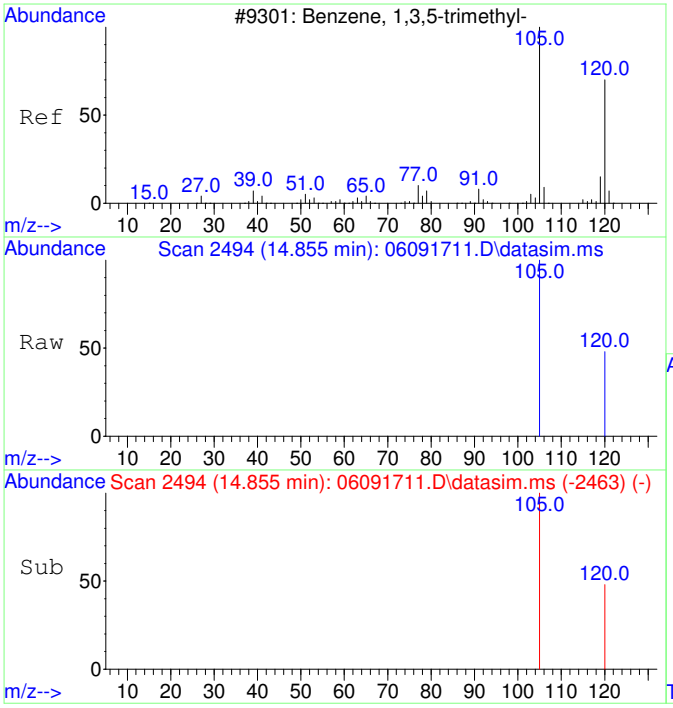


#20
o-Xylene
Concen: 2928.08 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 452221

Ion	Ratio	Lower	Upper
91	100		
106	45.9	16.0	76.0

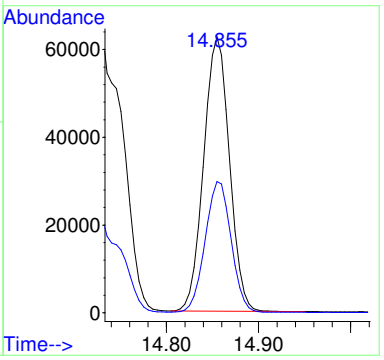


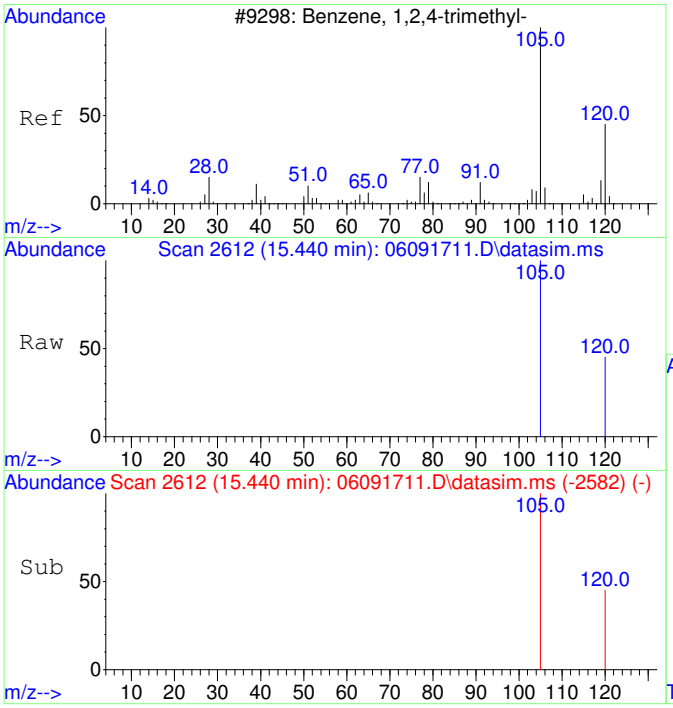


#22
1,3,5-Trimethylbenzene
Concen: 796.45 ug/L
RT: 14.855 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:105 Resp: 121453

Ion	Ratio	Lower	Upper
105	100		
120	47.9	18.0	78.0

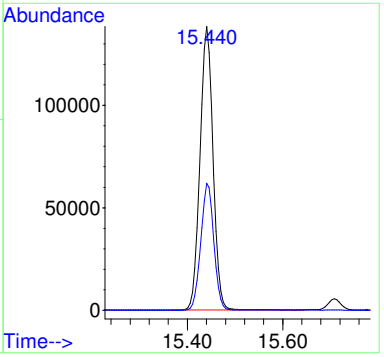


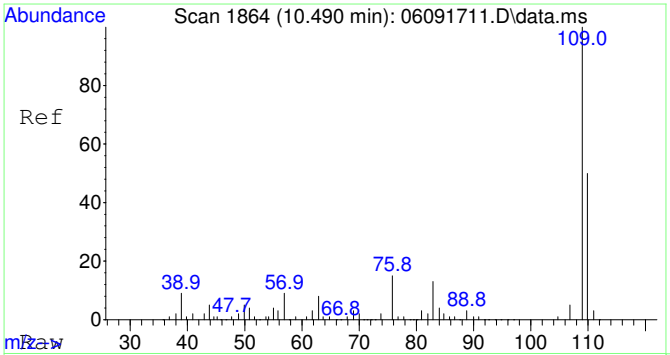


#23
1,2,4-Trimethylbenzene
Concen: 1665.75 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:105 Resp: 260408

Ion	Ratio	Lower	Upper
105	100		
120	44.8	14.4	74.4

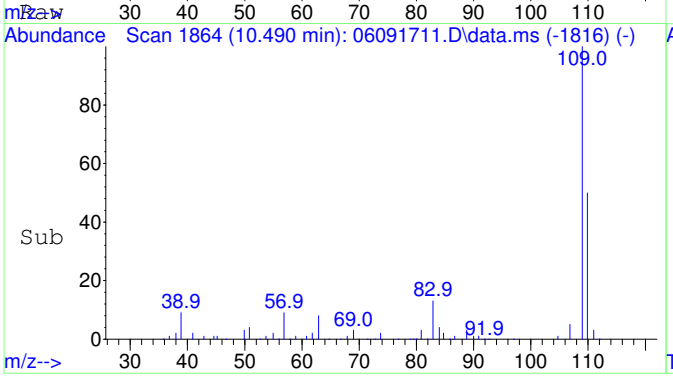


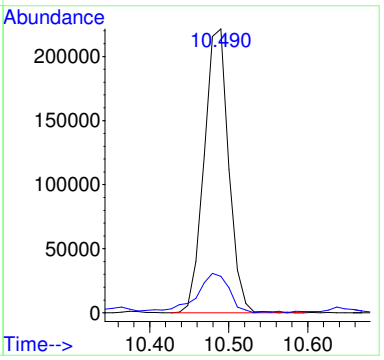


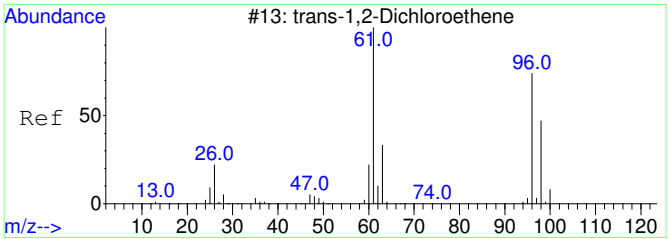
#25
2-Fluorotoluene SCAN
Concen: 4849.50 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:109 Resp: 479550

Ion	Ratio	Lower	Upper
109	100		
83	17.0	0.0	46.1



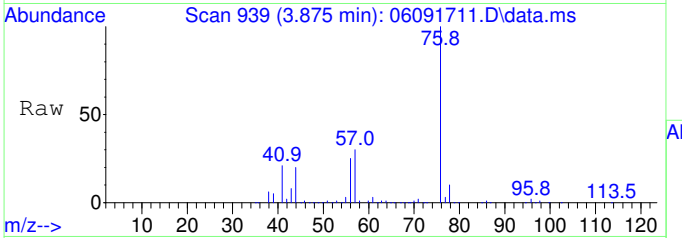


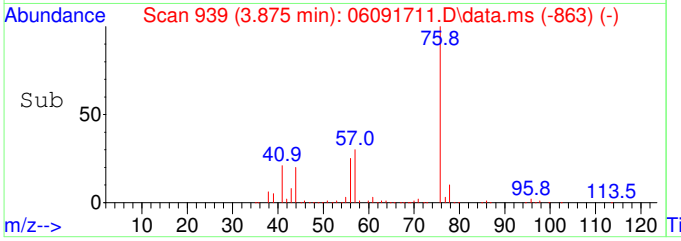


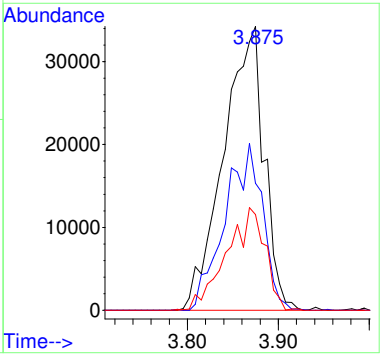
#27
trans-1,2-Dichloroethene SCAN
Concen: 2399.33 ug/L
RT: 3.875 min Scan# 939
Delta R.T. 0.007 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

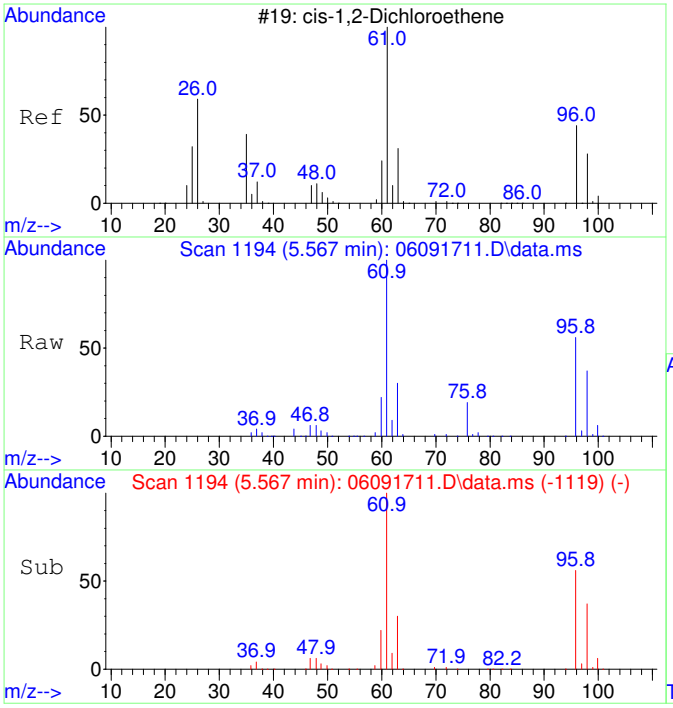
Tgt Ion: 61 Resp: 106536

Ion	Ratio	Lower	Upper
61	100		
96	54.8	26.1	86.1
98	34.3	4.4	64.4





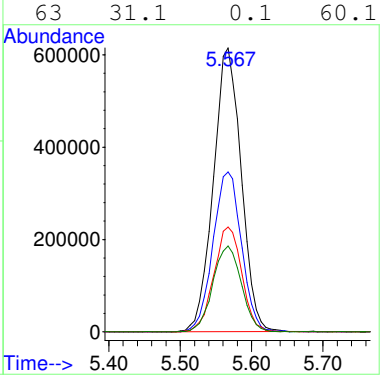


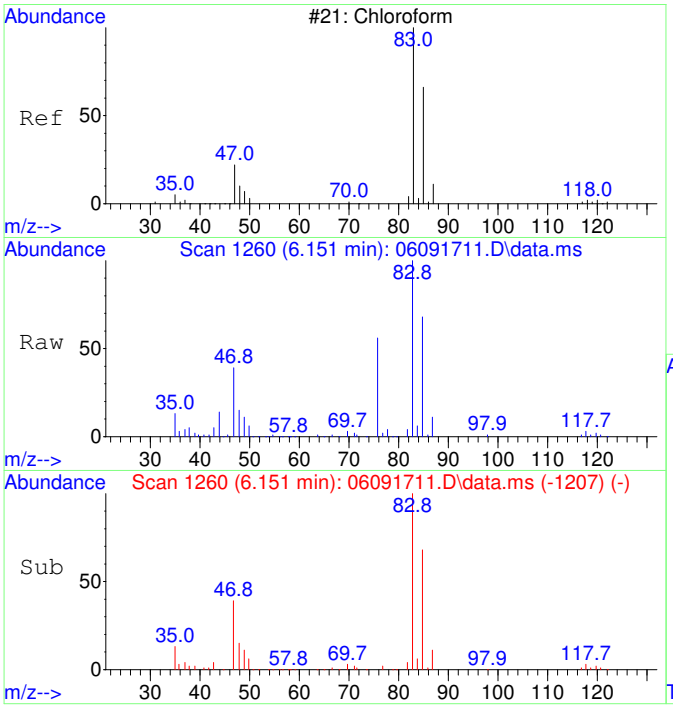


#29
cis-1,2-Dichloroethene SCAN
Concen: 32517.24 ug/L
RT: 5.567 min Scan# 1194
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 61 Resp: 1665595

Ion	Ratio	Lower	Upper
61	100		
96	57.7	17.5	77.5
98	37.0	1.9	61.9
63	31.1	0.1	60.1

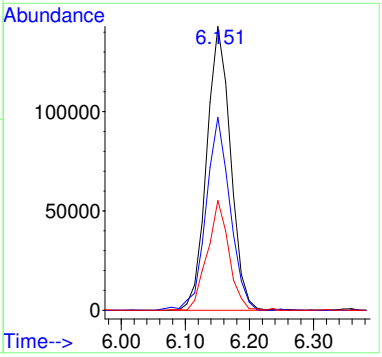


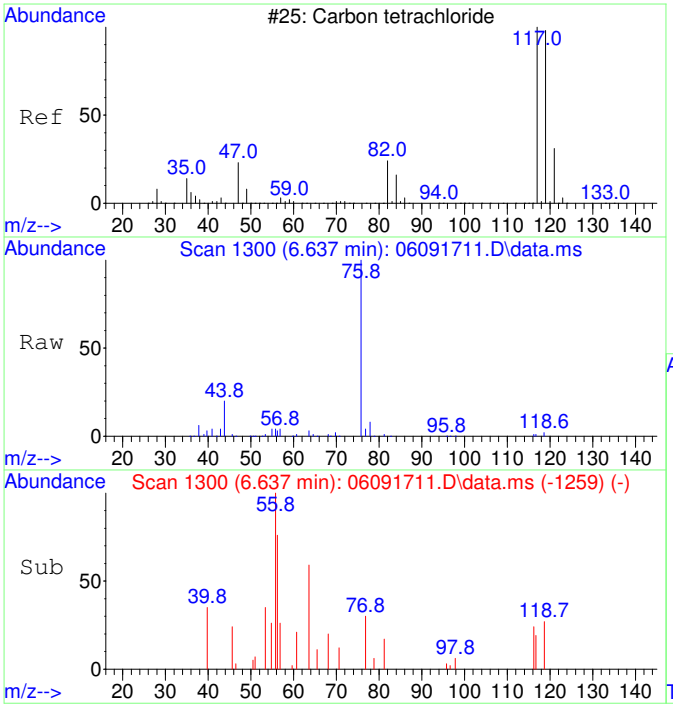


#30
Chloroform SCAN
Concen: 8004.42 ug/L
RT: 6.151 min Scan# 1260
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 83 Resp: 369715

Ion	Ratio	Lower	Upper
83	100		
85	68.6	31.2	91.2
47	35.2	3.2	63.2

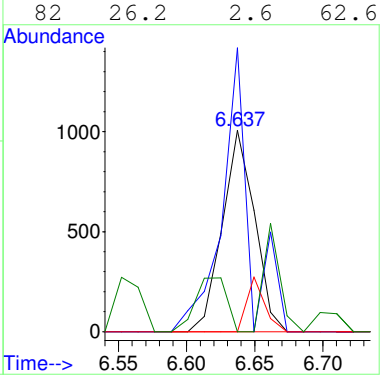


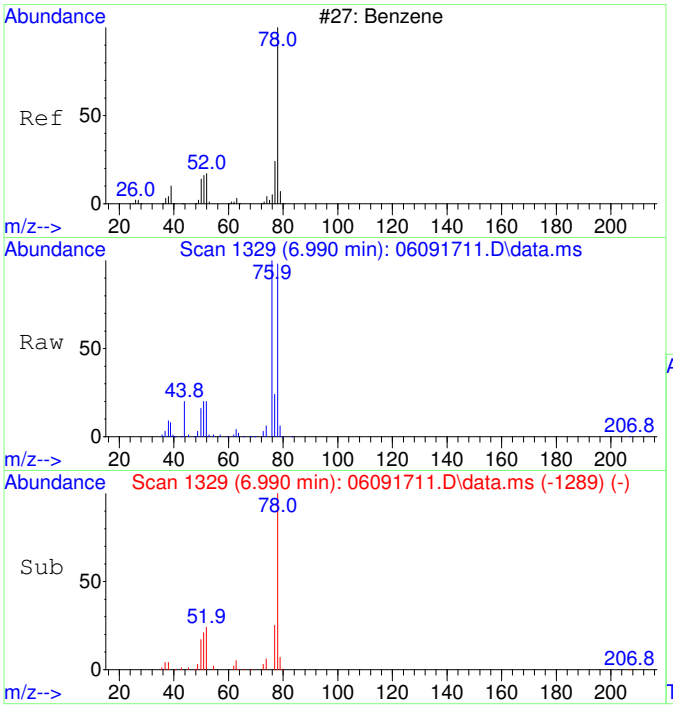


#32
Carbon tetrachloride SCAN
Concen: 47.55 ug/L
RT: 6.637 min Scan# 1300
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:117 Resp: 1664

Ion	Ratio	Lower	Upper
117	100		
119	118.6	66.8	126.8
121	0.0	0.4	60.4#
82	26.2	2.6	62.6

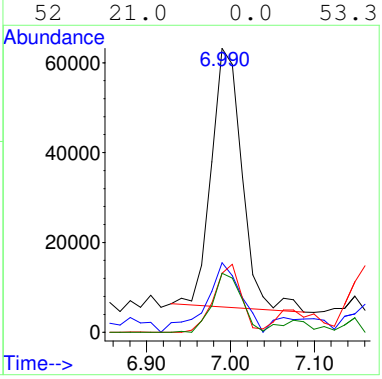


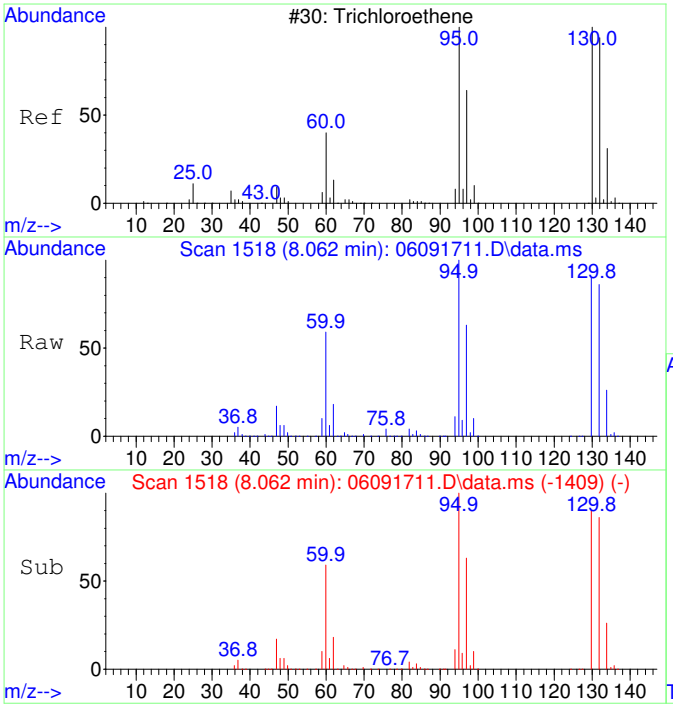


#33
Benzene SCAN
Concen: 1391.29 ug/L
RT: 6.990 min Scan# 1329
Delta R.T. -0.012 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 78 Resp: 145647

Ion	Ratio	Lower	Upper
78	100		
77	30.5	0.0	55.2
51	22.1	0.0	52.4
52	21.0	0.0	53.3

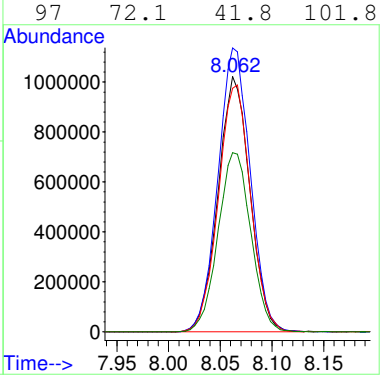


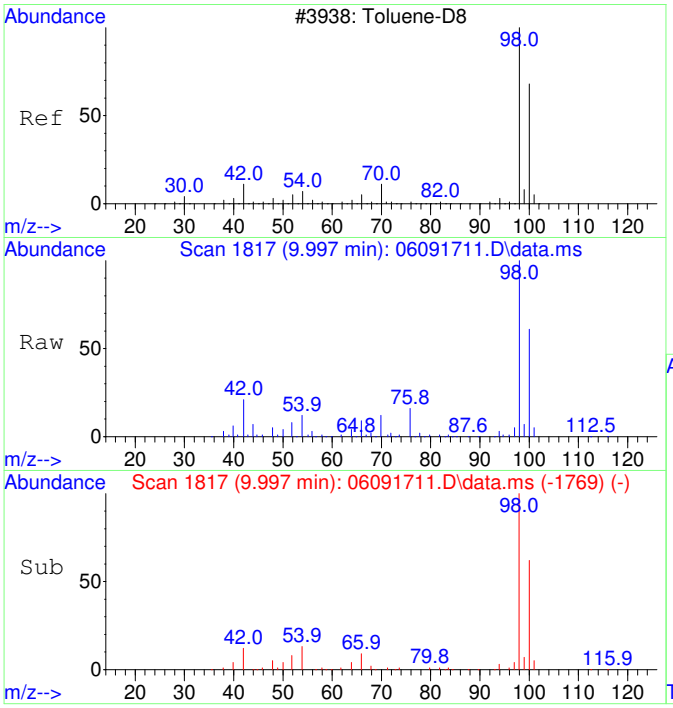


#35
Trichloroethene SCAN
Concen: 90662.31 ug/L
RT: 8.062 min Scan# 1518
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:130 Resp: 2197881

Ion	Ratio	Lower	Upper
130	100		
95	112.7	76.1	136.1
132	97.7	65.6	125.6
97	72.1	41.8	101.8

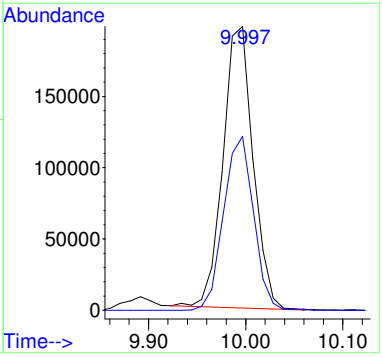


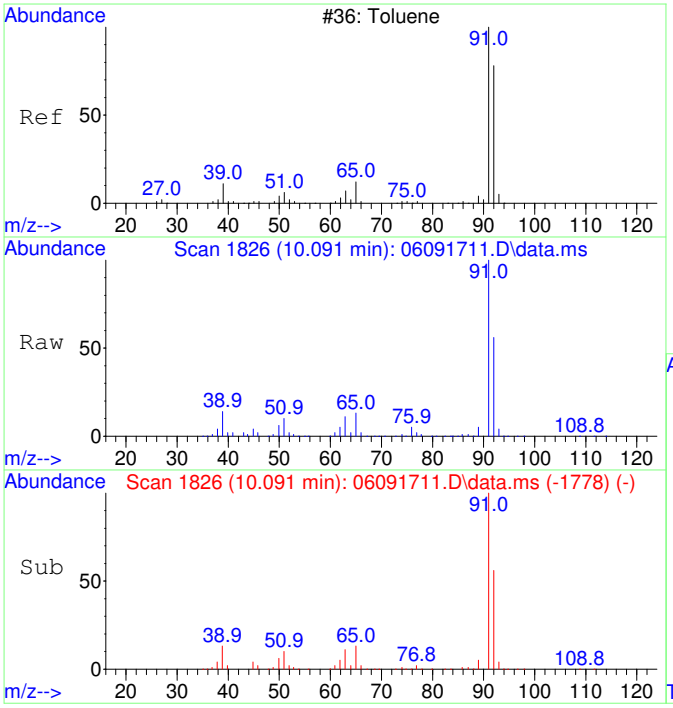


#36
Toluene-d8 SCAN
Concen: 5185.25 ug/L
RT: 9.997 min Scan# 1817
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 98 Resp: 423179

Ion	Ratio	Lower	Upper
98	100		
100	61.5	36.2	96.2

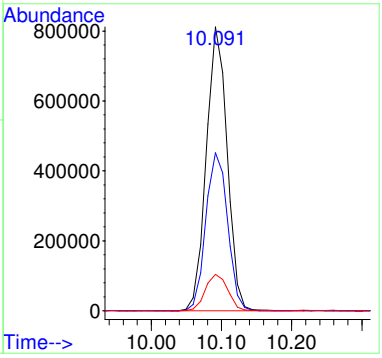


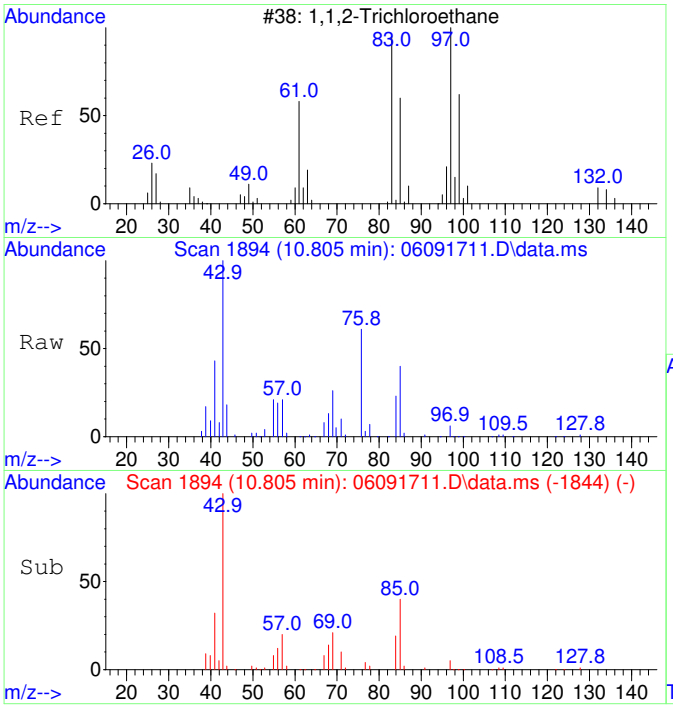


#37
Toluene SCAN
Concen: 15428.98 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 1679459

Ion	Ratio	Lower	Upper
91	100		
92	58.0	29.2	89.2
65	13.9	0.0	44.3

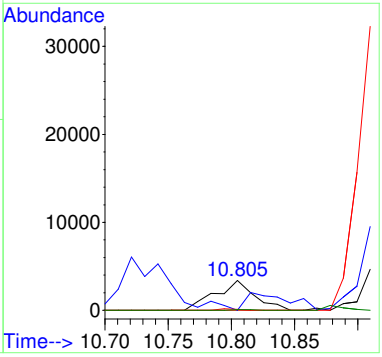


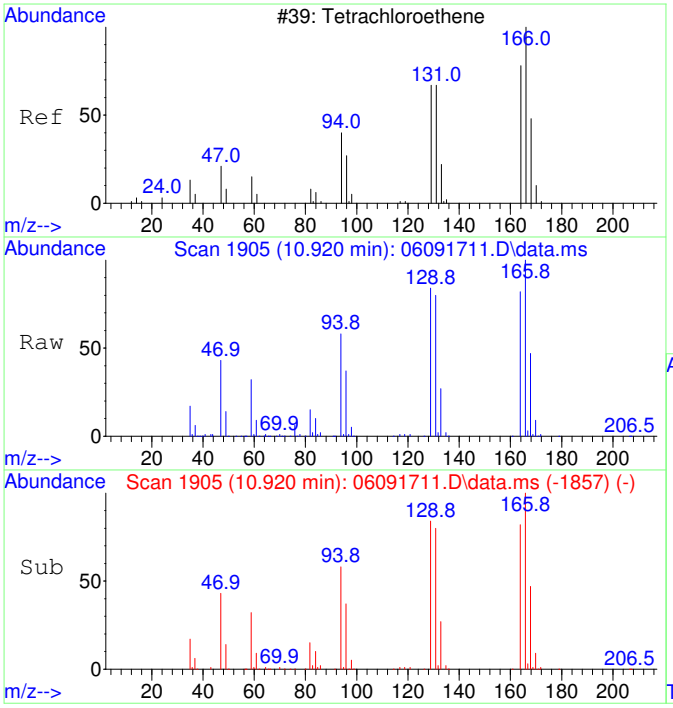


#38
1,1,2-Trichloroethane SCAN
Concen: 301.98 ug/L
RT: 10.805 min Scan# 1894
Delta R.T. 0.021 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 97 Resp: 7403

Ion	Ratio	Lower	Upper
97	100		
83	61.1	57.8	117.8
61	0.0	48.6	108.6#
99	1.4	32.7	92.7#

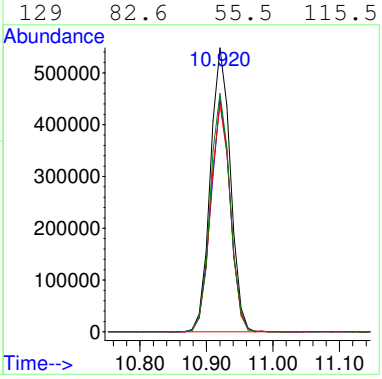


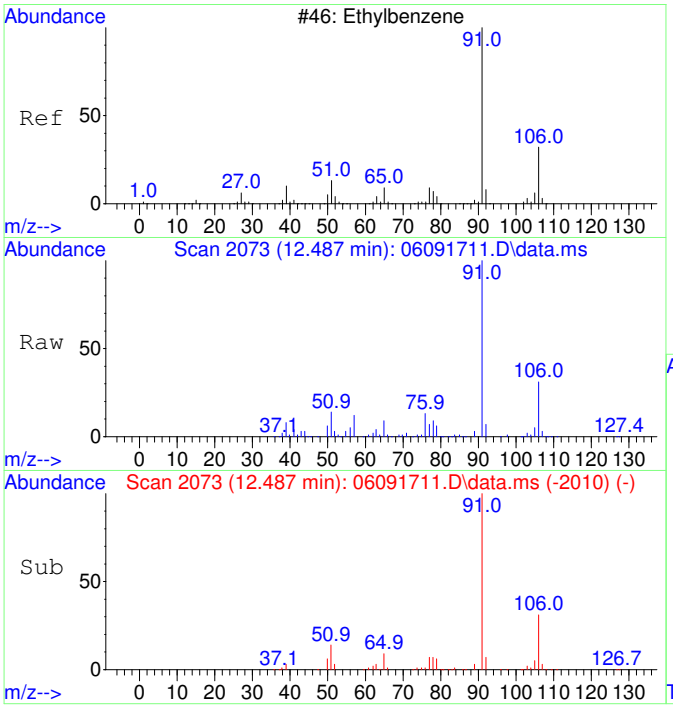


#39
Tetrachloroethene SCAN
Concen: 51678.69 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:166 Resp: 1153233

Ion	Ratio	Lower	Upper
166	100		
164	79.6	45.7	105.7
131	78.8	44.8	104.8
129	82.6	55.5	115.5

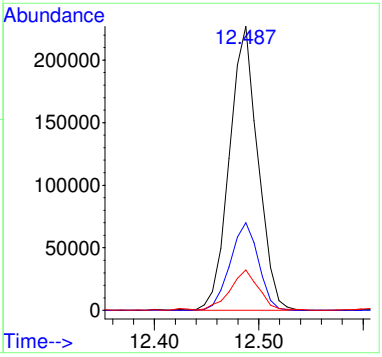


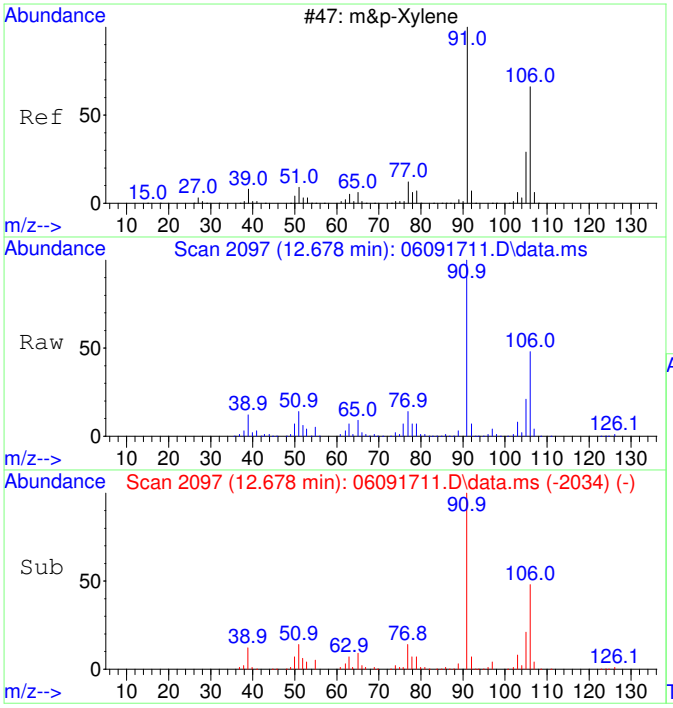


#42
Ethylbenzene SCAN
Concen: 3523.09 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 429400

Ion	Ratio	Lower	Upper
91	100		
106	30.6	0.0	59.8
51	14.2	0.0	45.5

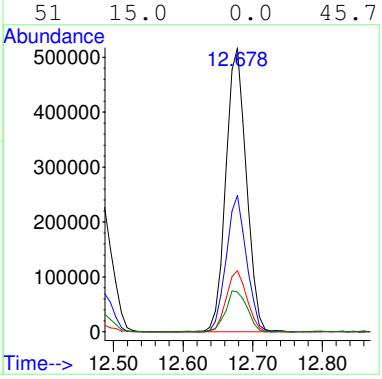


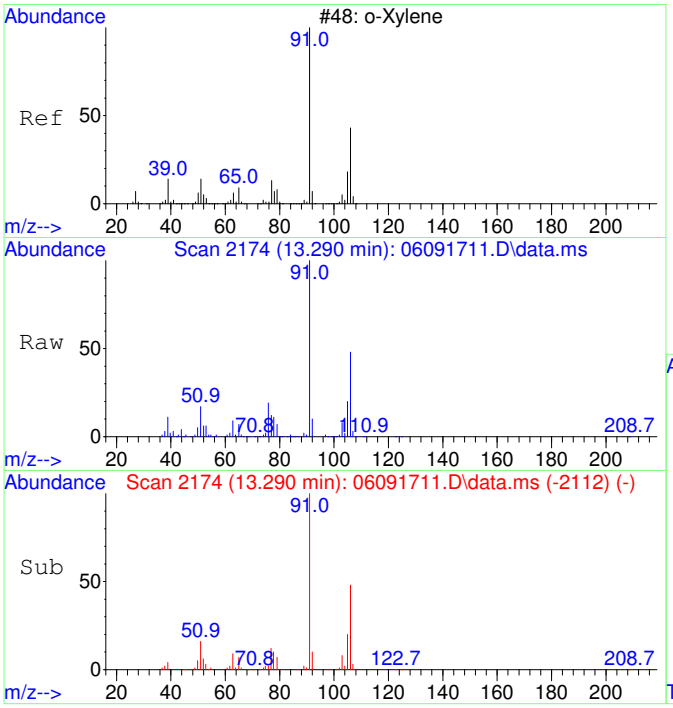


#43
m&p-Xylene SCAN
Concen: 5548.13 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 1055794

Ion	Ratio	Lower	Upper
91	100		
106	47.4	18.5	78.5
105	21.6	0.0	51.3
51	15.0	0.0	45.7

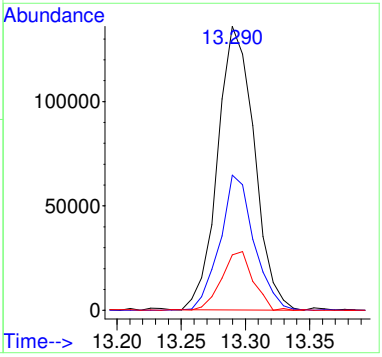


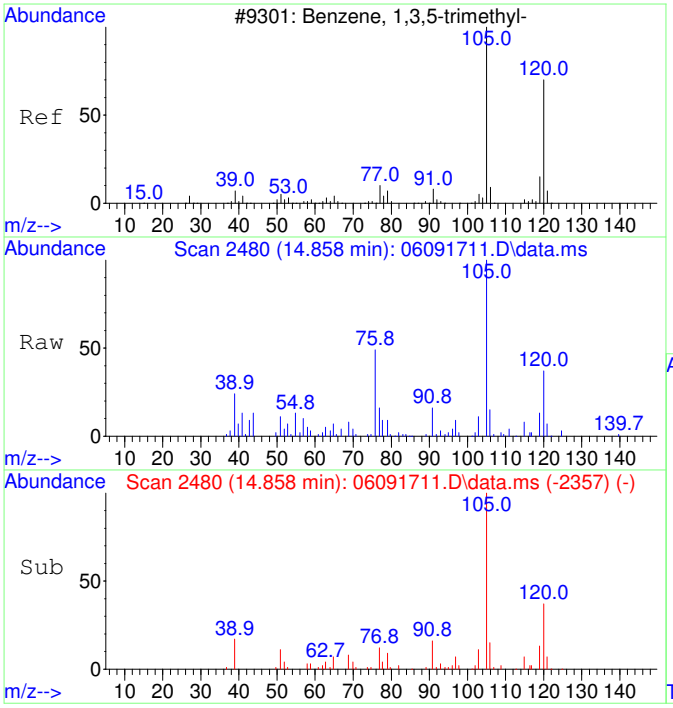


#44
o-Xylene SCAN
Concen: 2737.47 ug/L
RT: 13.290 min Scan# 2174
Delta R.T. -0.008 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 268252

Ion	Ratio	Lower	Upper
91	100		
106	44.7	15.5	75.5
105	17.8	0.0	54.1

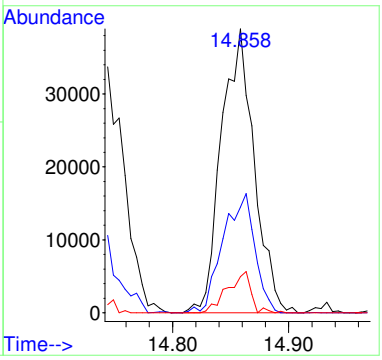


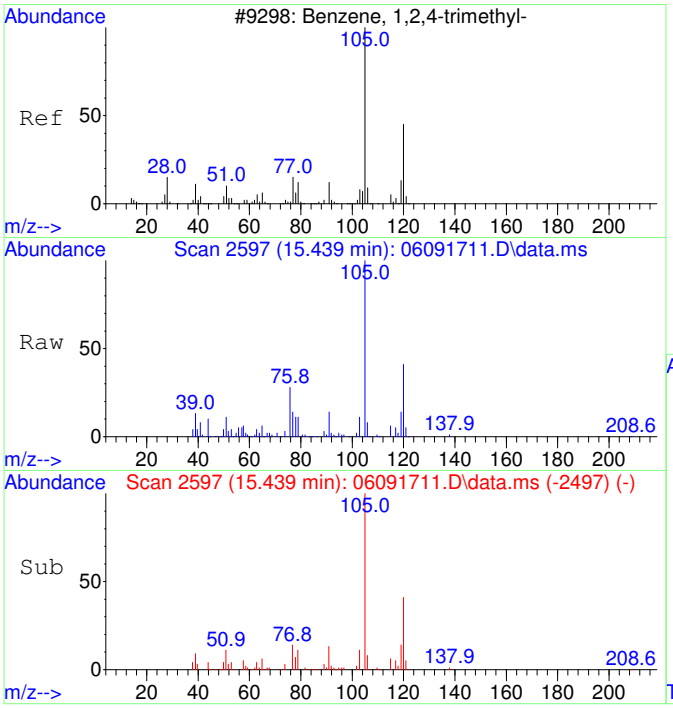


#46
1,3,5-Trimethylbenzene SCAN
Concen: 822.99 ug/L
RT: 14.858 min Scan# 2480
Delta R.T. 0.001 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:105 Resp: 76498

Ion	Ratio	Lower	Upper
105	100		
120	40.9	17.3	77.3
119	10.5	0.0	42.7

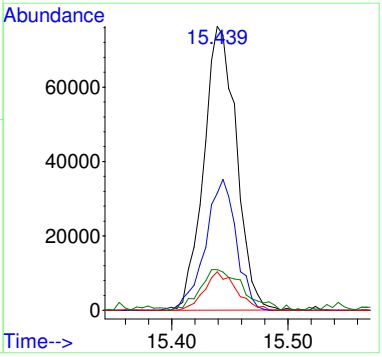




#47
1,2,4-Trimethylbenzene SCAN
Concen: 1543.55 ug/L
RT: 15.439 min Scan# 2597
Delta R.T. -0.004 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:105 Resp: 149515

Ion	Ratio	Lower	Upper
105	100		
120	43.6	12.9	72.9
119	13.3	0.0	40.5
77	18.9	0.0	43.3



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091711.D
Acq On : 9 Jun 2017 14:30
InstName : AG5975C
Operator : RH
Sample : 1706012-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

M.I. Performed By:
RH at 1:09 pm, Jun 12, 2017

M.I. Approved By:
ZR at 11:51 am, Jun 14, 2017

Quant Time: Jun 09 16:57:20 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

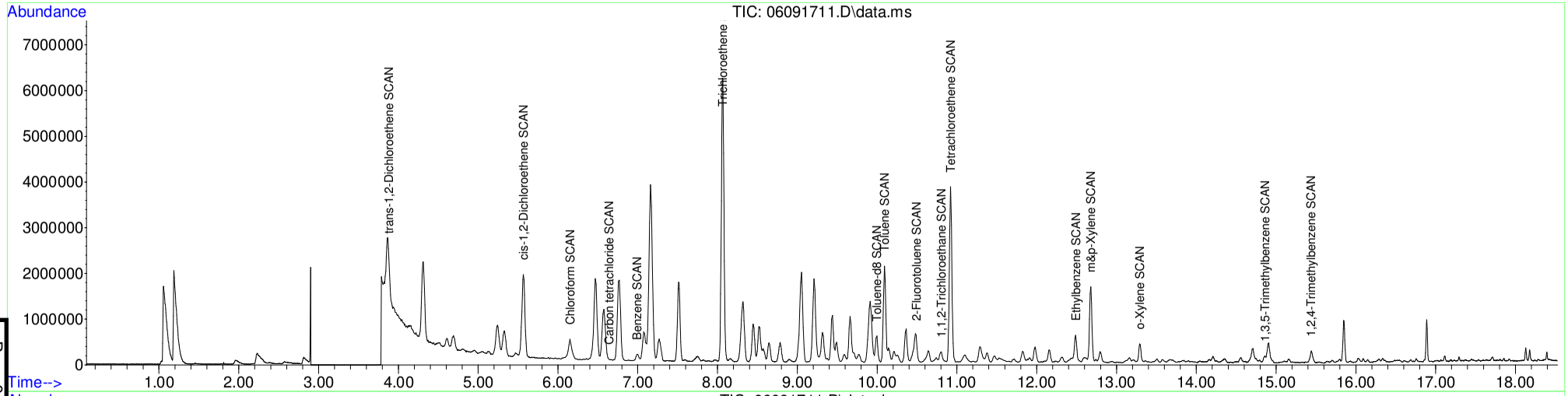
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.481	109	815605	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.988	98	684934	5127.88 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 102.56%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.715	61	6090m	94.68 ug/L	
3] trans-1,2-Dichloroethene	3.863	61	153022	2194.90 ug/L	96
5] cis-1,2-Dichloroethene	5.561	61	2431592	33851.01 ug/L	100 OC
6] Chloroform	6.152	83	591196	8505.36 ug/L	97
8] Carbon tetrachloride	6.639	117	2778	50.44 ug/L	99
9] Benzene	6.991	78	208770	1289.73 ug/L	98
10] 1,2-Dichloroethane	7.064	62	1668	27.81 ug/L	71
11] Trichloroethene	8.063	130	4029684	96798.48 ug/L	100 OC
13] Toluene	10.082	91	2741311	15497.91 ug/L	100
14] 1,1,2-Trichloroethane	10.796	97	9597	253.73 ug/L #	7
15] Tetrachloroethene	10.922	166	2365883	52184.85 ug/L	100 OC
18] Ethylbenzene	12.481	91	684320	3594.82 ug/L	100
19] m&p-Xylene	12.671	91	1777877	11905.26 ug/L	100
20] o-Xylene	13.291	91	452221	2928.08 ug/L	100
22] 1,3,5-Trimethylbenzene	14.855	105	121453	796.45 ug/L	100
23] 1,2,4-Trimethylbenzene	15.440	105	260408	1665.75 ug/L	99
25) 2-Fluorotoluene SCAN	10.490	109	479550	4849.50 ug/L	98
27) trans-1,2-Dichloroethe...	3.875	61	106536	2399.33 ug/L	99
29) cis-1,2-Dichloroethene...	5.567	61	1665595	32517.24 ug/L	90
30) Chloroform SCAN	6.151	83	369715	8004.42 ug/L	93
32) Carbon tetrachloride SCAN	6.637	117	1664	47.55 ug/L #	74
33) Benzene SCAN	6.990	78	145647	1391.29 ug/L	95
35) Trichloroethene SCAN	8.062	130	2197881	90662.31 ug/L	97
36) Toluene-d8 SCAN	9.997	98	423179	5185.25 ug/L	94
37) Toluene SCAN	10.091	91	1679459	15428.98 ug/L	98
38) 1,1,2-Trichloroethane ...	10.805	97	7403	301.98 ug/L #	36
39) Tetrachloroethene SCAN	10.920	166	1153233	51678.69 ug/L	96
42) Ethylbenzene SCAN	12.487	91	429400	3523.09 ug/L	98
43) m&p-Xylene SCAN	12.678	91	1055794	5548.13 ug/L	99
44) o-Xylene SCAN	13.290	91	268252	2737.47 ug/L	95
46) 1,3,5-Trimethylbenzene...	14.858	105	76498	822.99 ug/L	91
47) 1,2,4-Trimethylbenzene...	15.439	105	149515	1543.55 ug/L	95

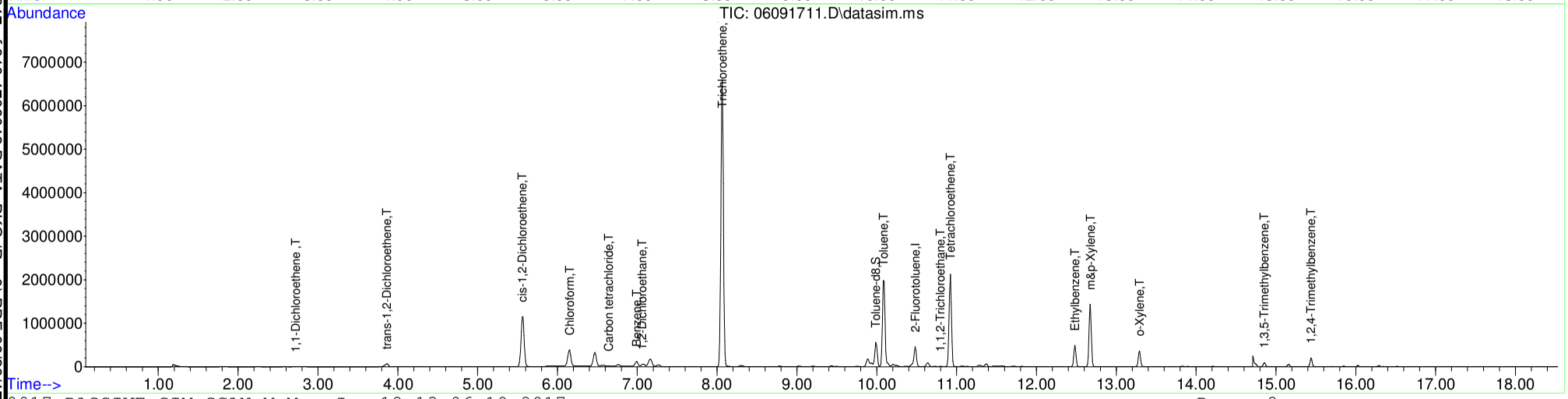
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091711.D
Acq On : 9 Jun 2017 14:30
InstName : AG5975C
Operator : RH
Sample : 1706012-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 09 16:57:20 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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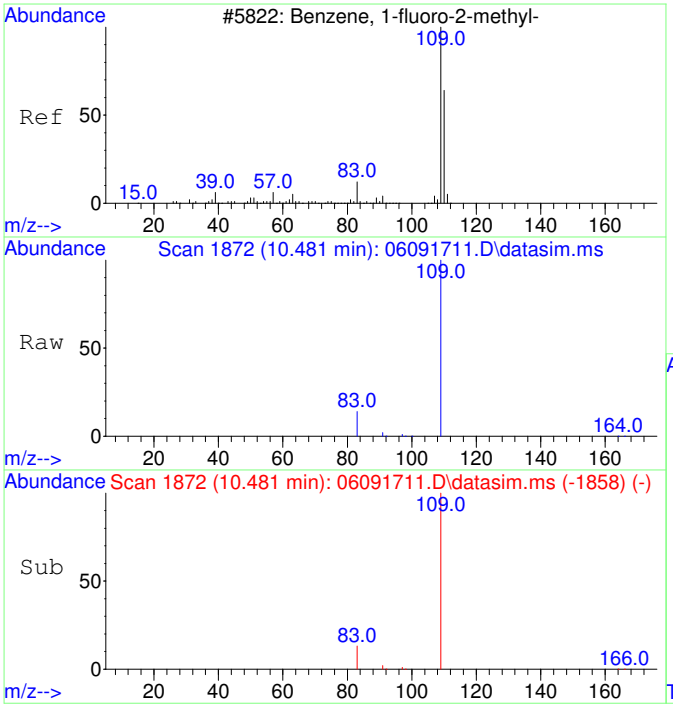
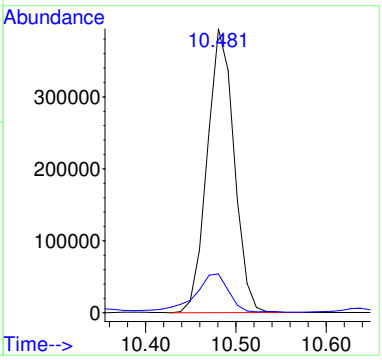
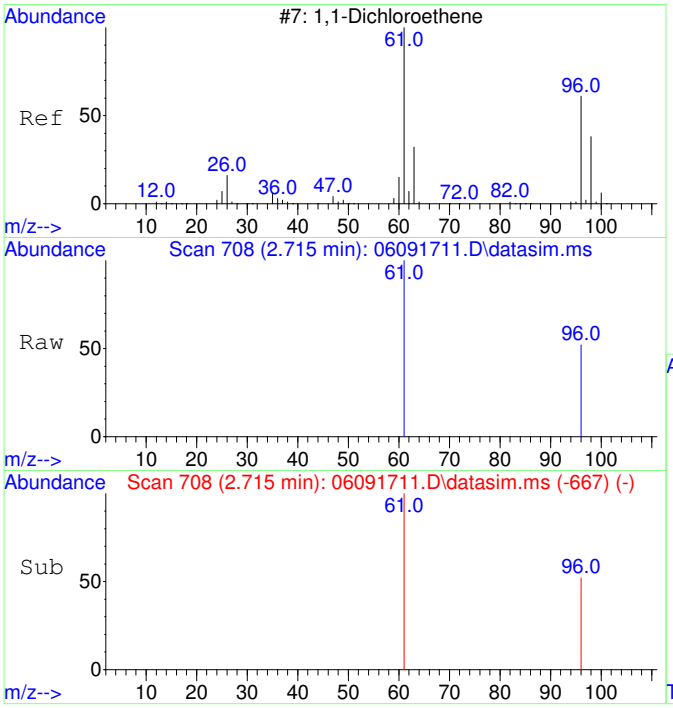


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.481 min Scan# 1872
Delta R.T. 0.001 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:109 Resp: 815605

Ion	Ratio	Lower	Upper
109	100		
83	15.5	0.0	44.4

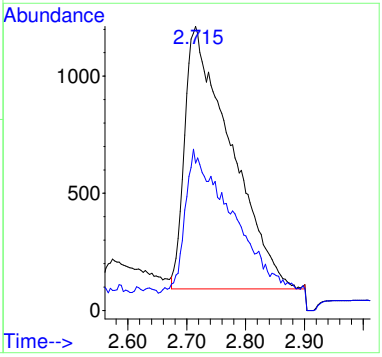


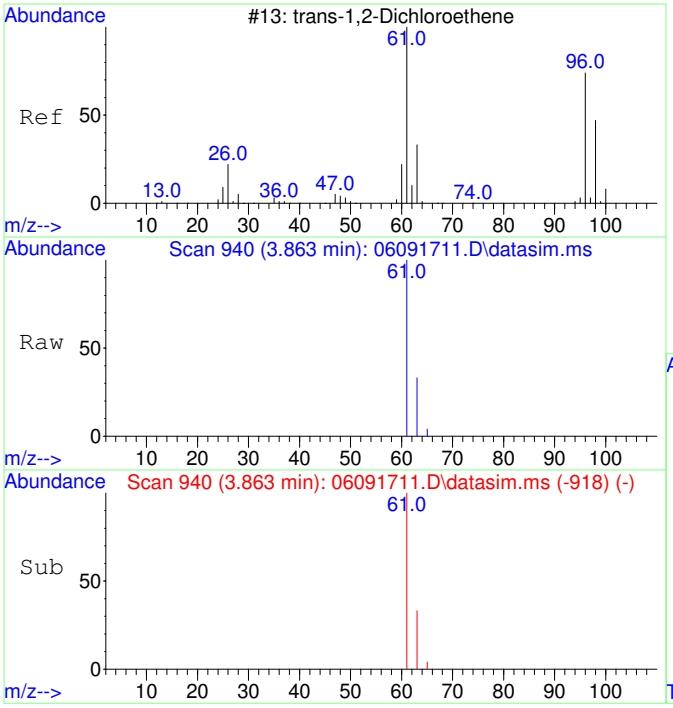


#2
1,1-Dichloroethene
Concen: 94.68 ug/L m
RT: 2.715 min Scan# 708
Delta R.T. 0.004 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 61 Resp: 6090

Ion	Ratio	Lower	Upper
61	100		
96	58.8	21.8	81.8

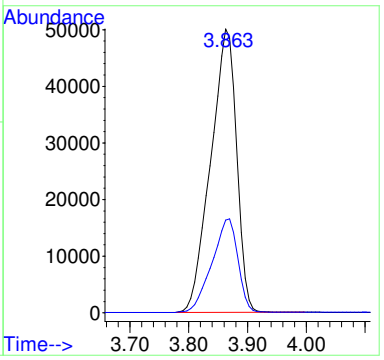


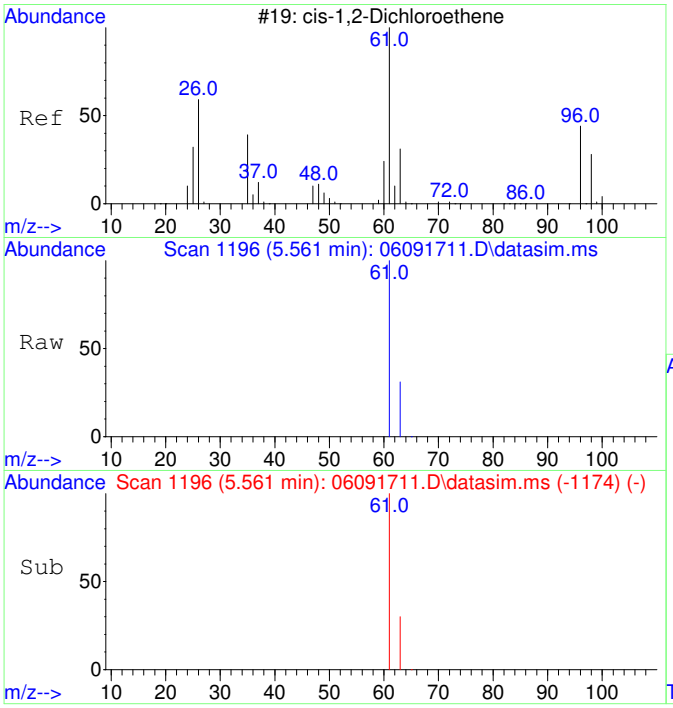


#3
trans-1,2-Dichloroethene
Concen: 2194.90 ug/L
RT: 3.863 min Scan# 940
Delta R.T. -0.006 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 61 Resp: 153022

Ion	Ratio	Lower	Upper
61	100		
63	33.0	1.0	61.0

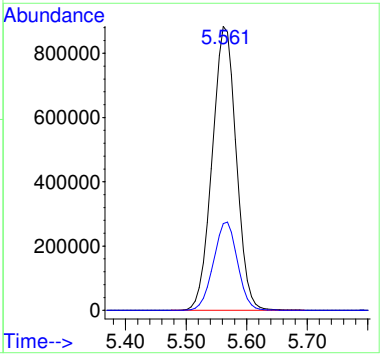


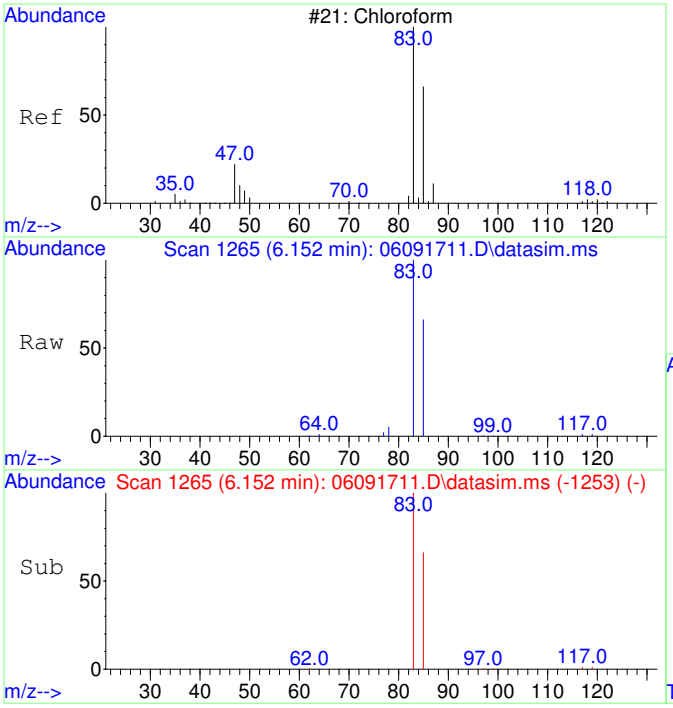


#5
cis-1,2-Dichloroethene
Concen: 33851.01 ug/L
RT: 5.561 min Scan# 1196
Delta R.T. -0.006 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 61 Resp: 2431592

Ion	Ratio	Lower	Upper
61	100		
63	31.1	0.9	60.9

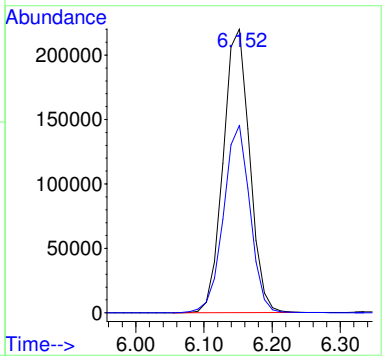


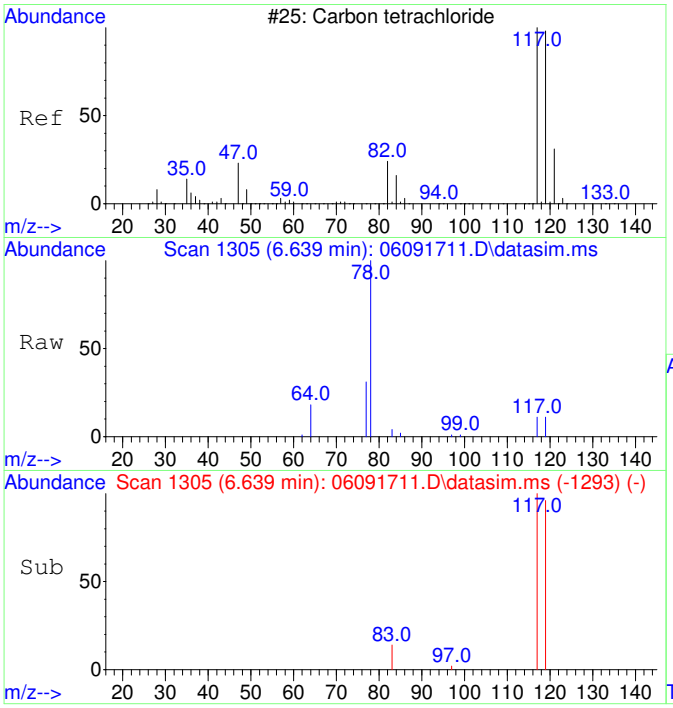


#6
Chloroform
Concen: 8505.36 ug/L
RT: 6.152 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 83 Resp: 591196

Ion	Ratio	Lower	Upper
83	100		
85	66.1	33.7	93.7

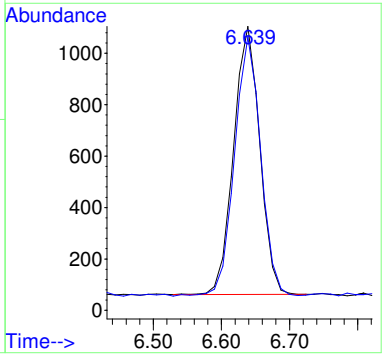


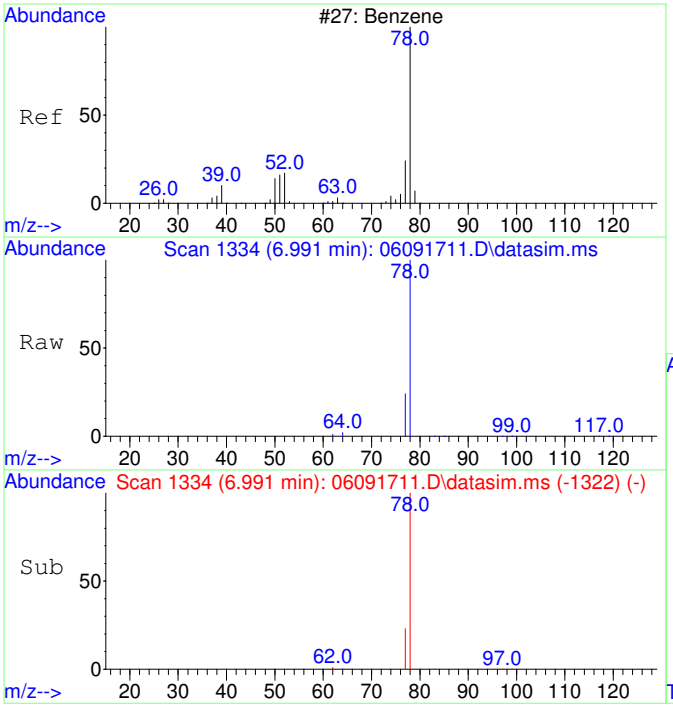


#8
Carbon tetrachloride
Concen: 50.44 ug/L
RT: 6.639 min Scan# 1305
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:117 Resp: 2778

Ion	Ratio	Lower	Upper
117	100		
119	94.6	65.5	125.5

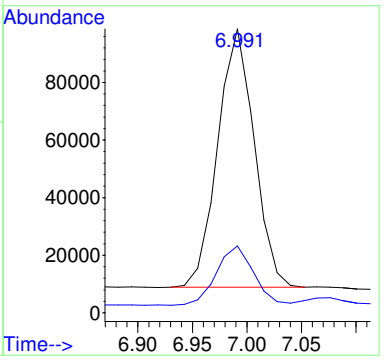


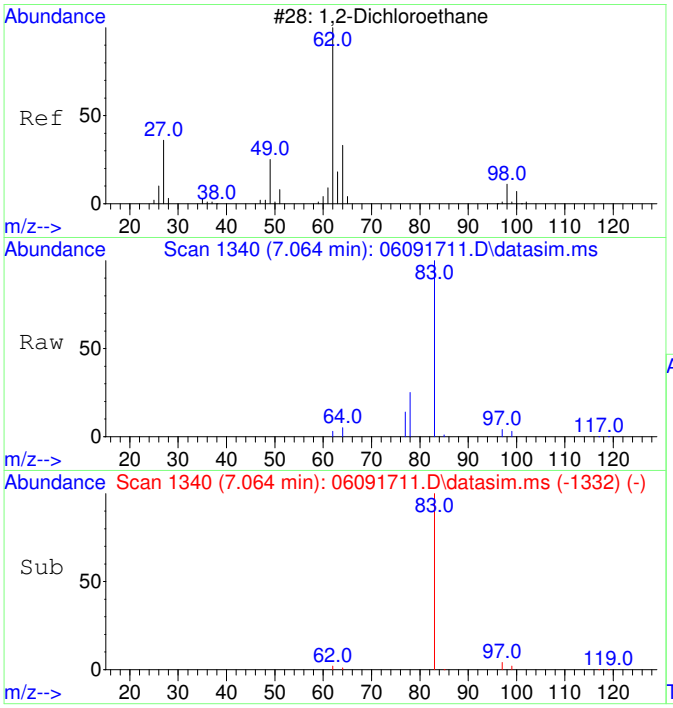


#9
Benzene
Concen: 1289.73 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 78 Resp: 208770

Ion	Ratio	Lower	Upper
78	100		
77	22.2	0.0	53.0

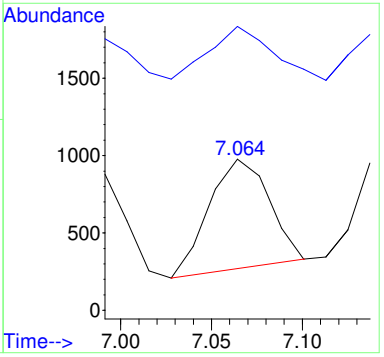


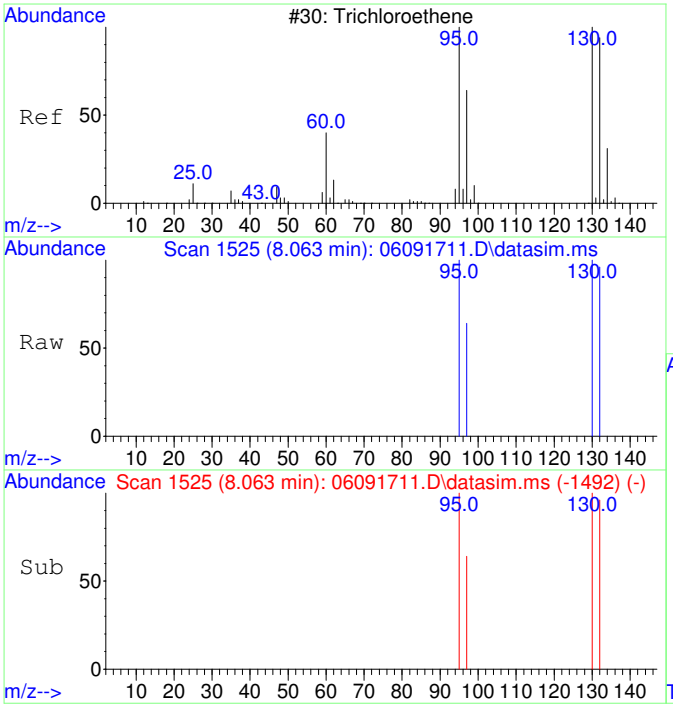


#10
1,2-Dichloroethane
Concen: 27.81 ug/L
RT: 7.064 min Scan# 1340
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 62 Resp: 1668

Ion	Ratio	Lower	Upper
62	100		
64	48.7	2.6	62.6

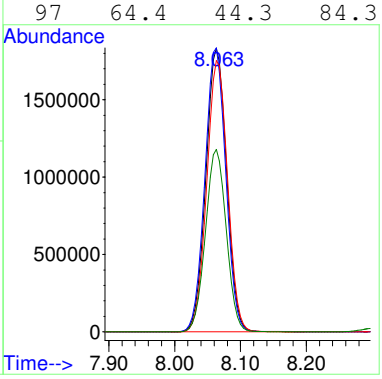


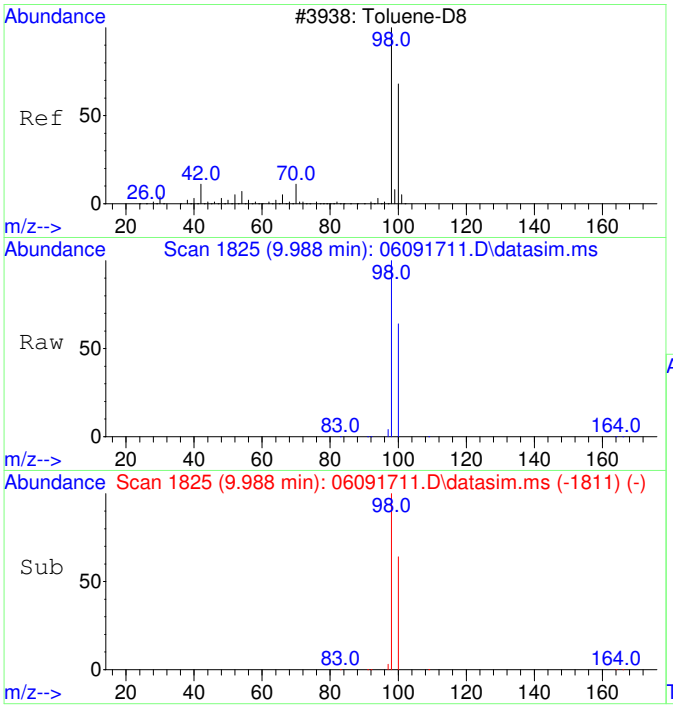


#11
Trichloroethene
Concen: 96798.48 ug/L
RT: 8.063 min Scan# 1525
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:130 Resp: 4029684

Ion	Ratio	Lower	Upper
130	100		
95	100.3	69.8	129.8
132	96.0	76.4	116.4
97	64.4	44.3	84.3

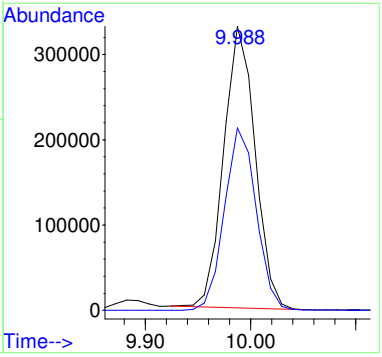


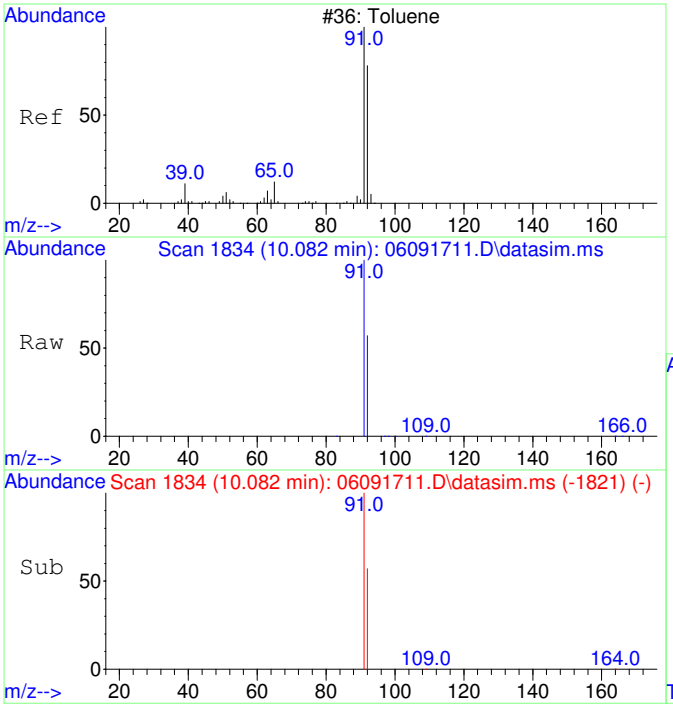


#12
Toluene-d8
Concen: 5127.88 ug/L
RT: 9.988 min Scan# 1825
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 98 Resp: 684934

Ion	Ratio	Lower	Upper
98	100		
100	65.3	34.2	94.2

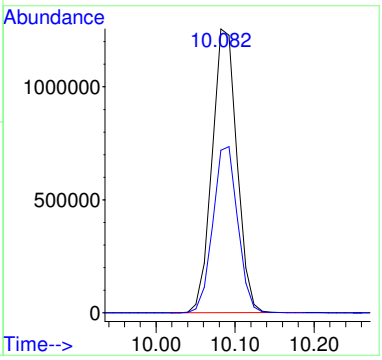


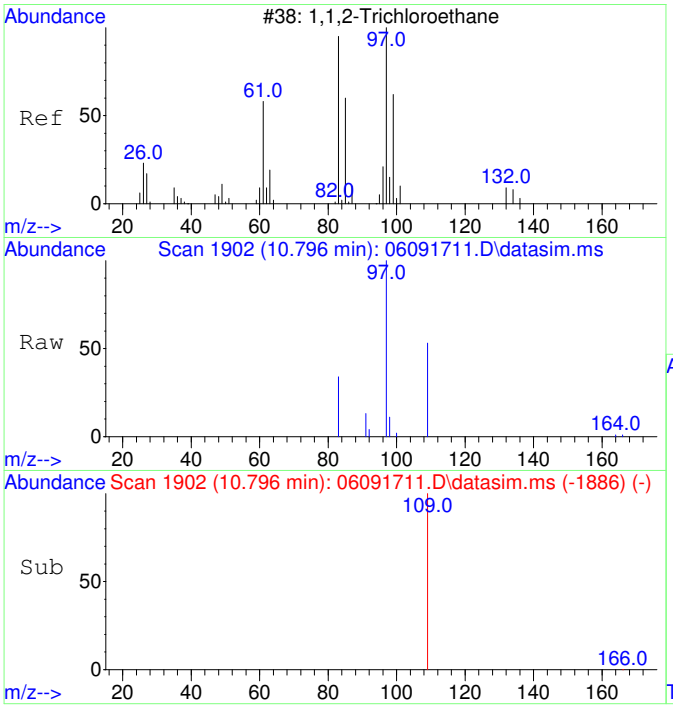


#13
Toluene
Concen: 15497.91 ug/L
RT: 10.082 min Scan# 1834
Delta R.T. -0.010 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 2741311

Ion	Ratio	Lower	Upper
91	100		
92	58.4	28.4	88.4

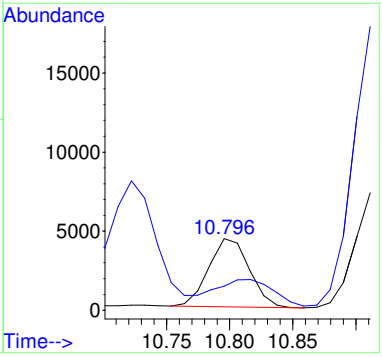


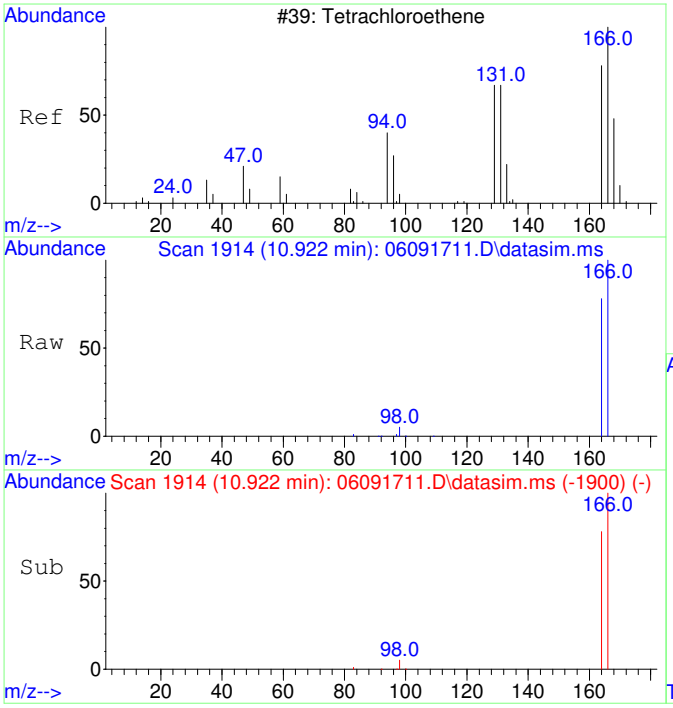


#14
1,1,2-Trichloroethane
Concen: 253.73 ug/L
RT: 10.796 min Scan# 1902
Delta R.T. 0.021 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 97 Resp: 9597

Ion	Ratio	Lower	Upper
97	100		
83	0.0	54.5	114.5#

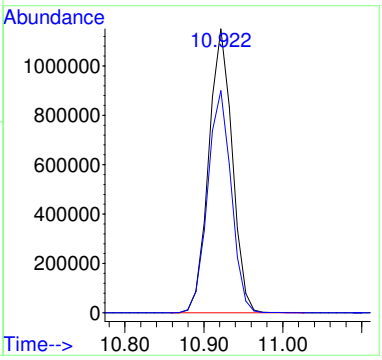


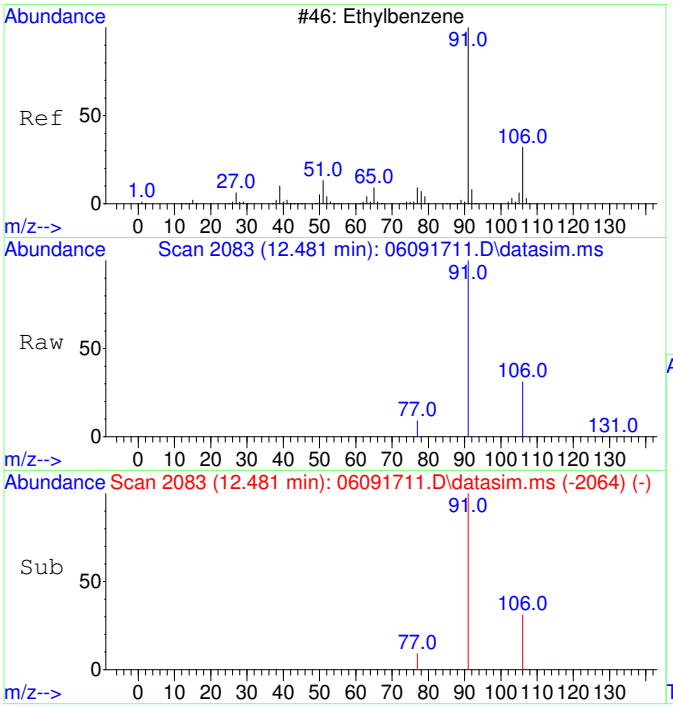


#15
Tetrachloroethene
Concen: 52184.85 ug/L
RT: 10.922 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:166 Resp: 2365883

Ion	Ratio	Lower	Upper
166	100		
164	78.2	48.1	108.1

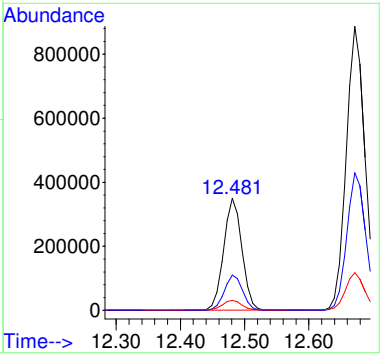


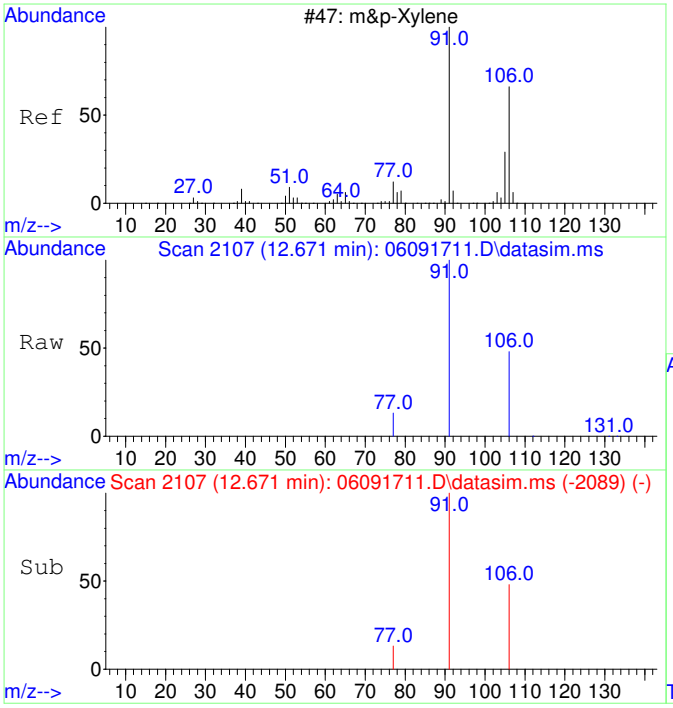


#18
Ethylbenzene
Concen: 3594.82 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 684320

Ion	Ratio	Lower	Upper
91	100		
106	31.5	1.2	61.2
77	8.6	0.0	38.6

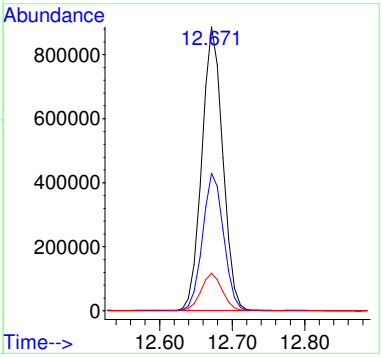


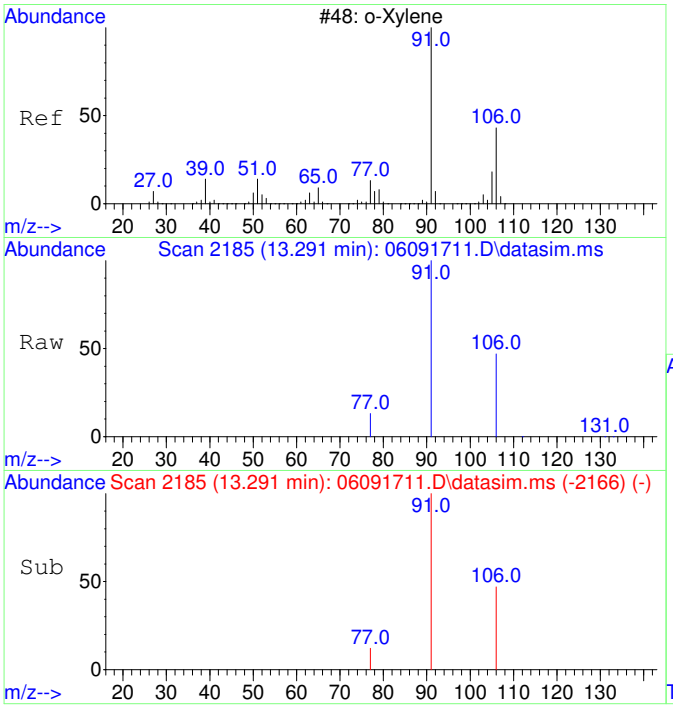


#19
m&p-Xylene
Concen: 11905.26 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 1777877

Ion	Ratio	Lower	Upper
91	100		
106	48.7	18.4	78.4
77	12.9	0.0	43.1

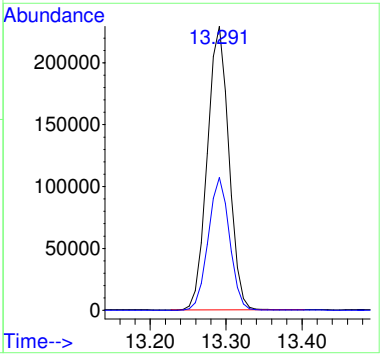


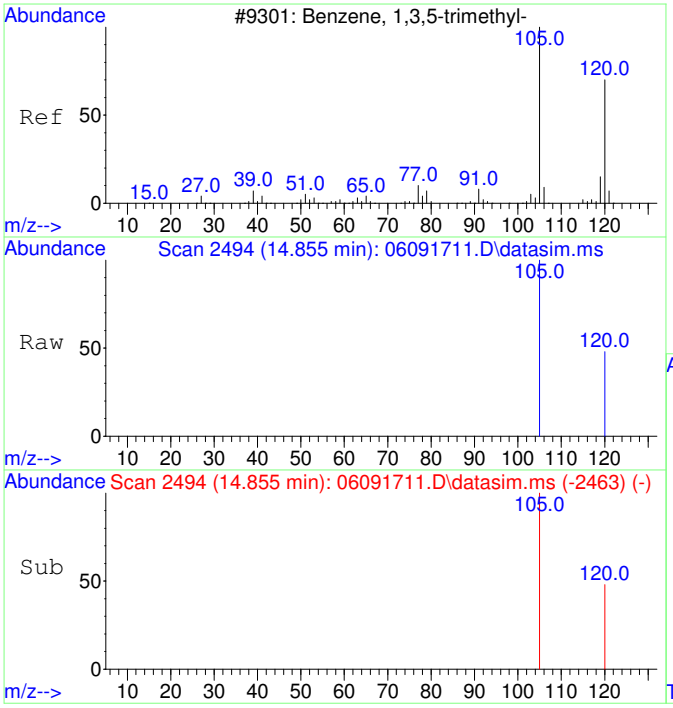


#20
o-Xylene
Concen: 2928.08 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 452221

Ion	Ratio	Lower	Upper
91	100		
106	45.9	16.0	76.0

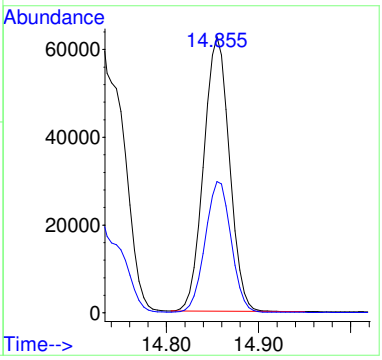


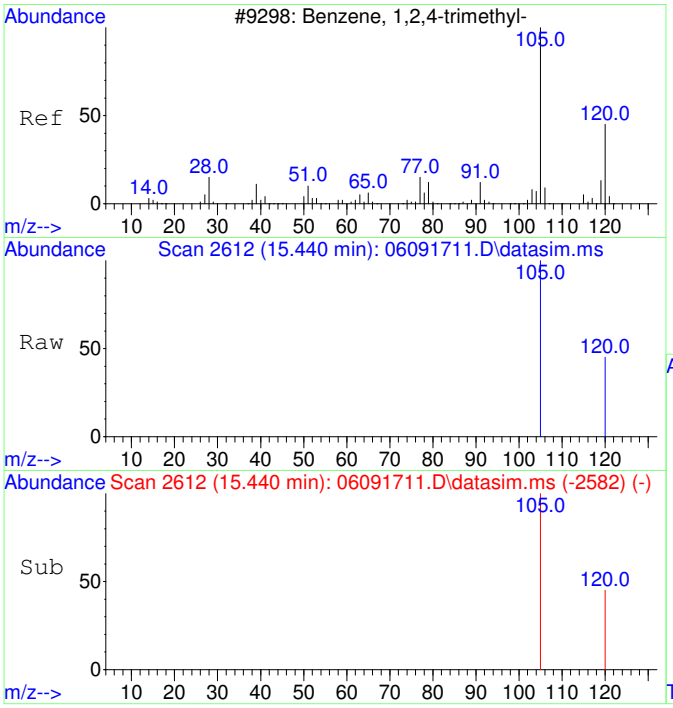


#22
1,3,5-Trimethylbenzene
Concen: 796.45 ug/L
RT: 14.855 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:105 Resp: 121453

Ion	Ratio	Lower	Upper
105	100		
120	47.9	18.0	78.0

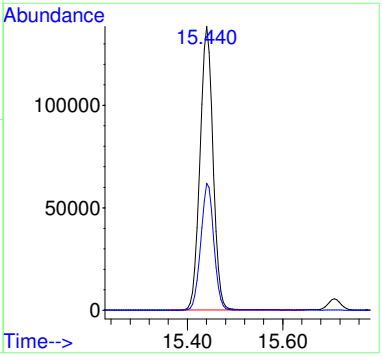


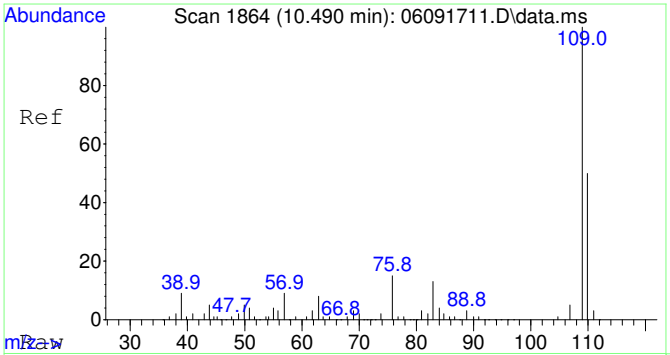


#23
1,2,4-Trimethylbenzene
Concen: 1665.75 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:105 Resp: 260408

Ion	Ratio	Lower	Upper
105	100		
120	44.8	14.4	74.4

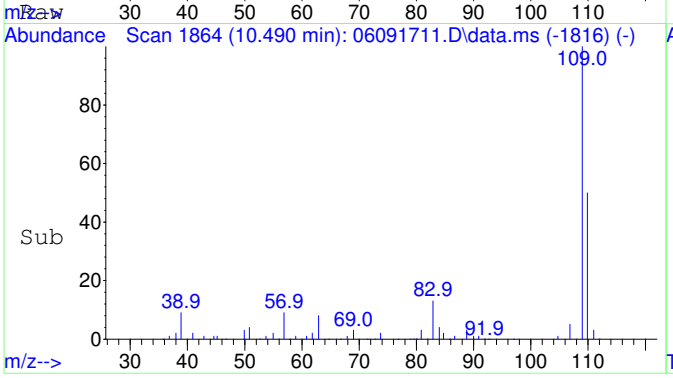


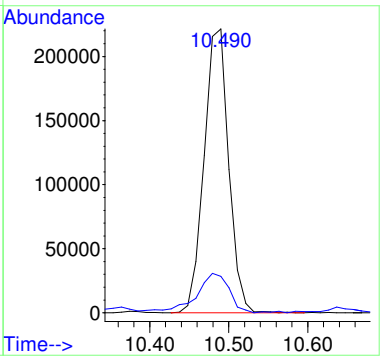


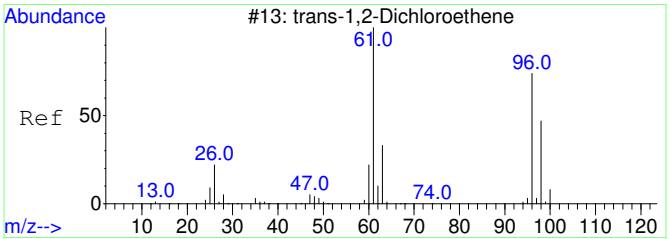
#25
2-Fluorotoluene SCAN
Concen: 4849.50 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:109 Resp: 479550

Ion	Ratio	Lower	Upper
109	100		
83	17.0	0.0	46.1



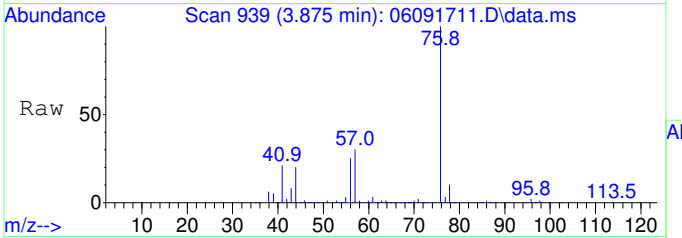


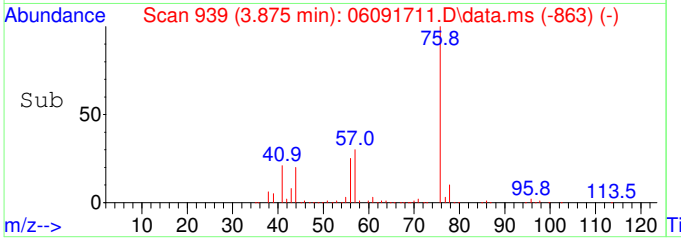


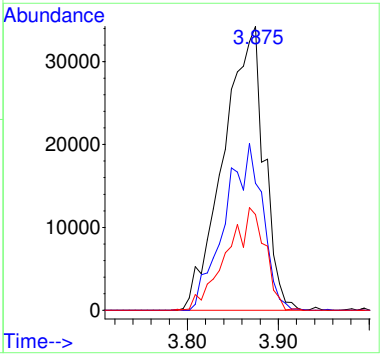
#27
trans-1,2-Dichloroethene SCAN
Concen: 2399.33 ug/L
RT: 3.875 min Scan# 939
Delta R.T. 0.007 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

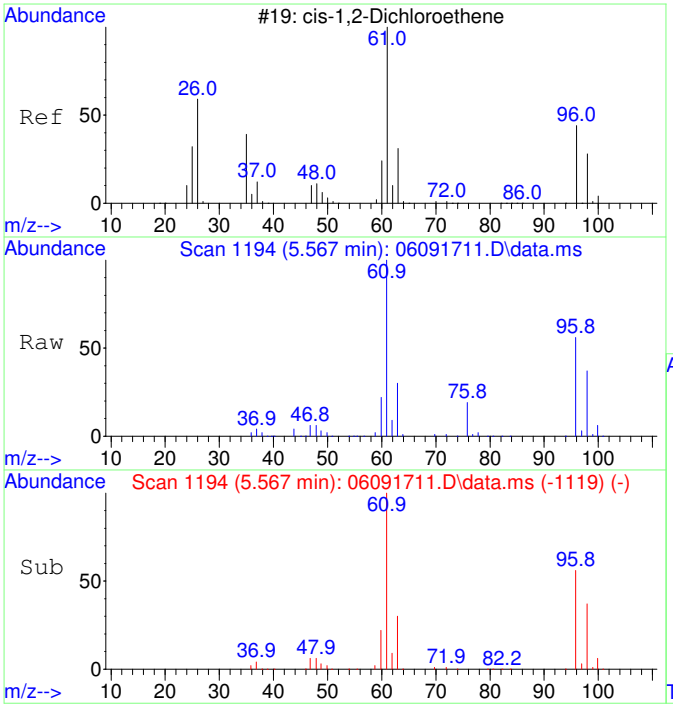
Tgt Ion: 61 Resp: 106536

Ion	Ratio	Lower	Upper
61	100		
96	54.8	26.1	86.1
98	34.3	4.4	64.4





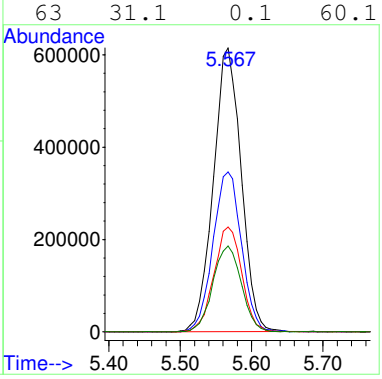


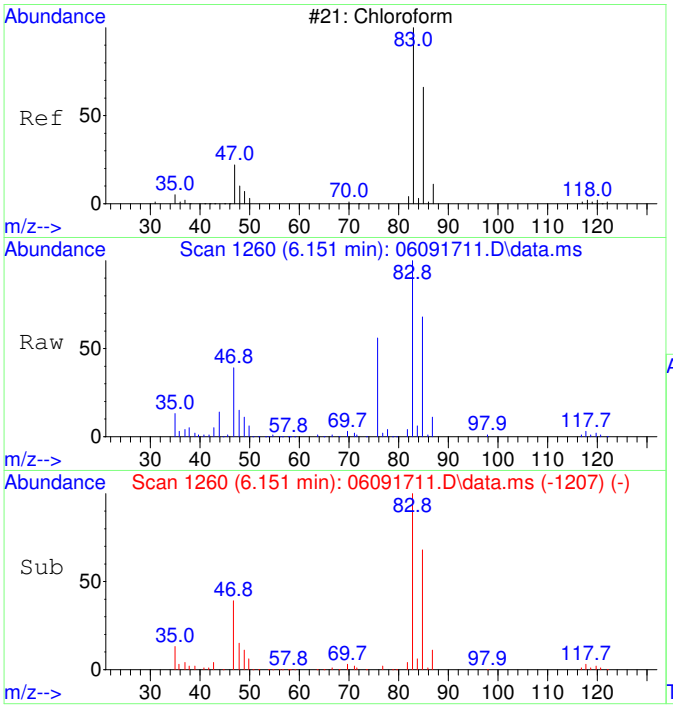


#29
cis-1,2-Dichloroethene SCAN
Concen: 32517.24 ug/L
RT: 5.567 min Scan# 1194
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 61 Resp: 1665595

Ion	Ratio	Lower	Upper
61	100		
96	57.7	17.5	77.5
98	37.0	1.9	61.9
63	31.1	0.1	60.1

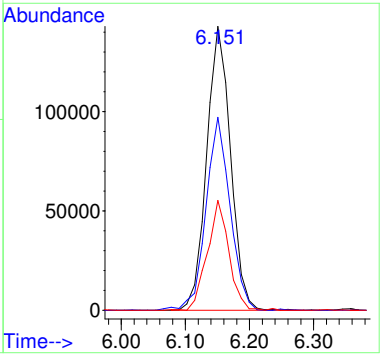


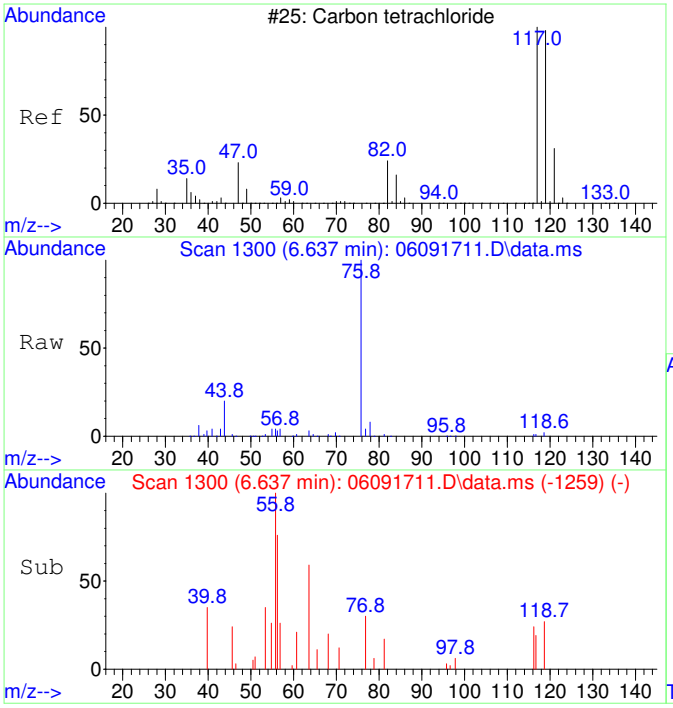


#30
Chloroform SCAN
Concen: 8004.42 ug/L
RT: 6.151 min Scan# 1260
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 83 Resp: 369715

Ion	Ratio	Lower	Upper
83	100		
85	68.6	31.2	91.2
47	35.2	3.2	63.2

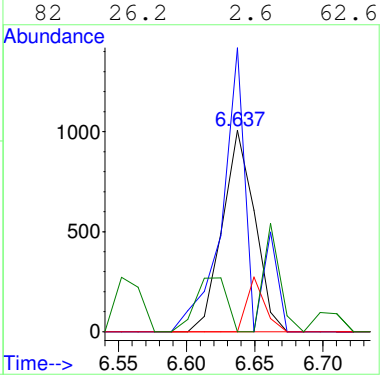


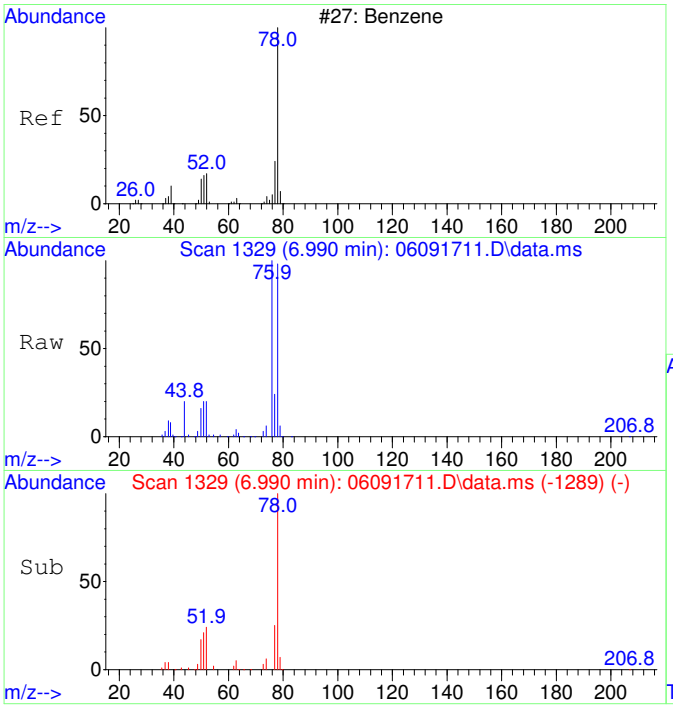


#32
Carbon tetrachloride SCAN
Concen: 47.55 ug/L
RT: 6.637 min Scan# 1300
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:117 Resp: 1664

Ion	Ratio	Lower	Upper
117	100		
119	118.6	66.8	126.8
121	0.0	0.4	60.4#
82	26.2	2.6	62.6

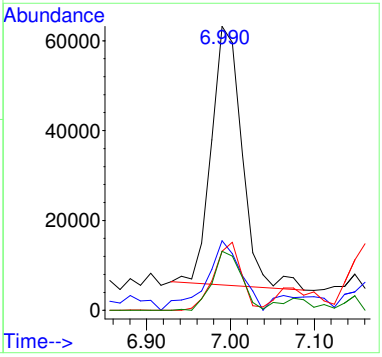


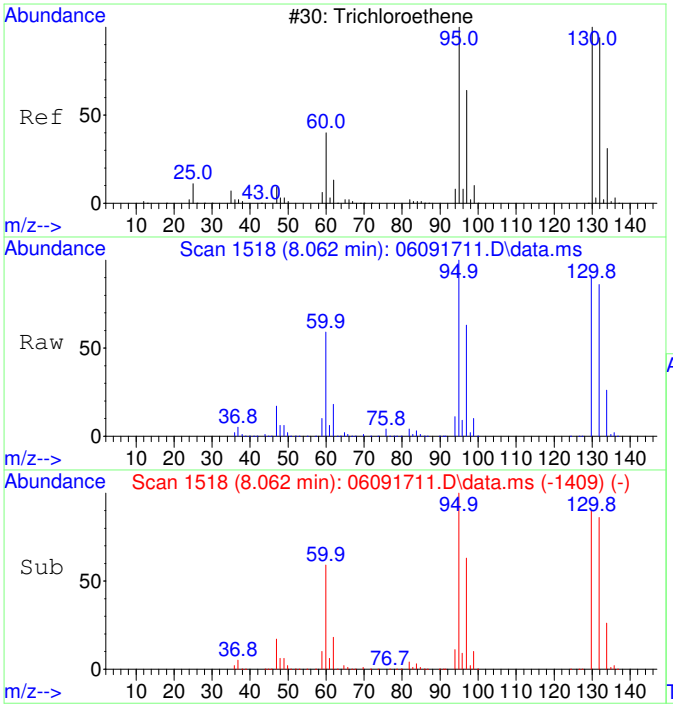


#33
Benzene SCAN
Concen: 1391.29 ug/L
RT: 6.990 min Scan# 1329
Delta R.T. -0.012 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 78 Resp: 145647

Ion	Ratio	Lower	Upper
78	100		
77	30.5	0.0	55.2
51	22.1	0.0	52.4
52	21.0	0.0	53.3

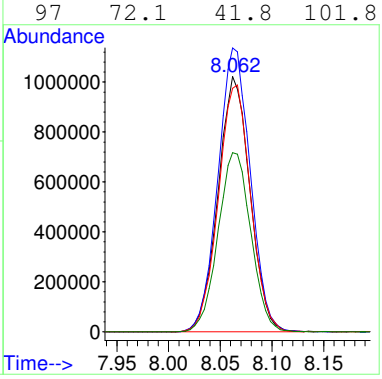


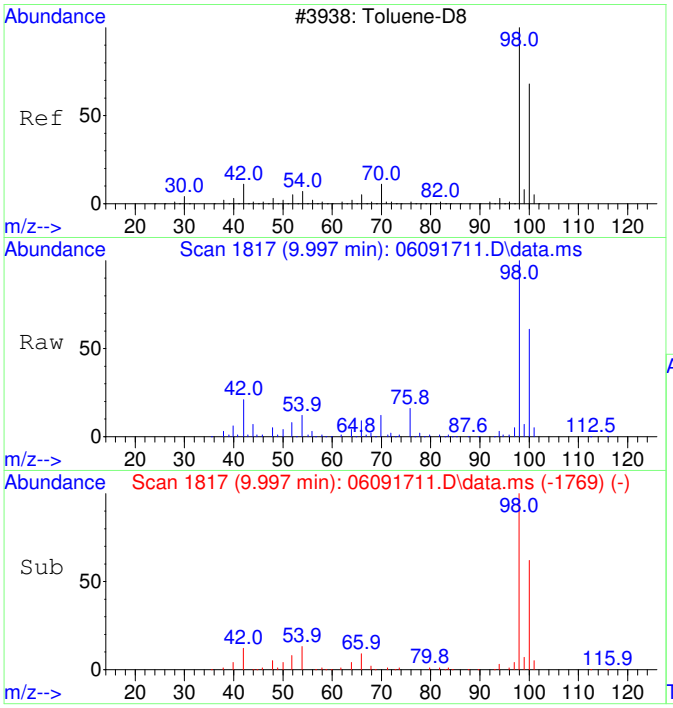


#35
Trichloroethene SCAN
Concen: 90662.31 ug/L
RT: 8.062 min Scan# 1518
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:130 Resp: 2197881

Ion	Ratio	Lower	Upper
130	100		
95	112.7	76.1	136.1
132	97.7	65.6	125.6
97	72.1	41.8	101.8

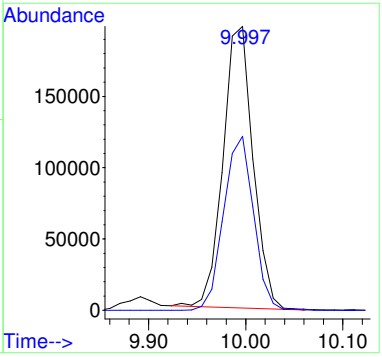


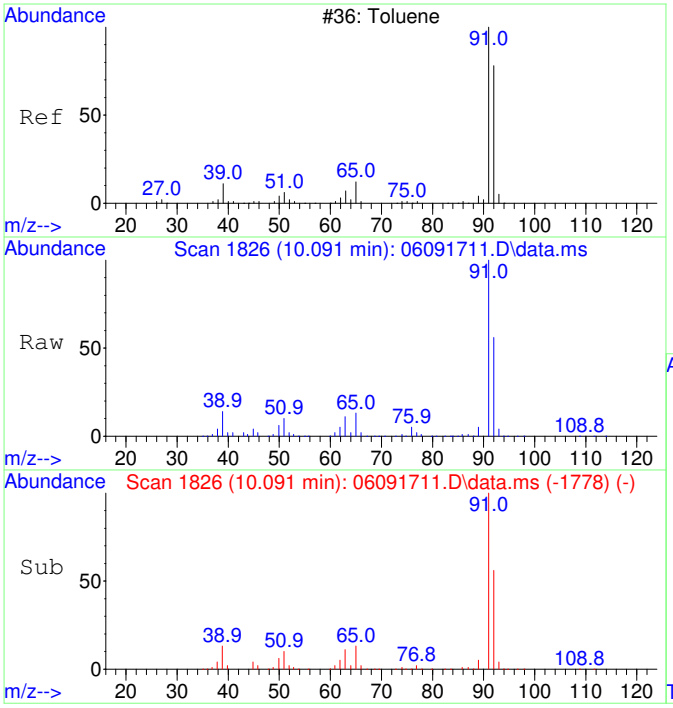


#36
Toluene-d8 SCAN
Concen: 5185.25 ug/L
RT: 9.997 min Scan# 1817
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 98 Resp: 423179

Ion	Ratio	Lower	Upper
98	100		
100	61.5	36.2	96.2

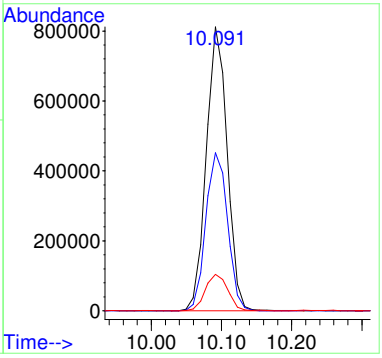


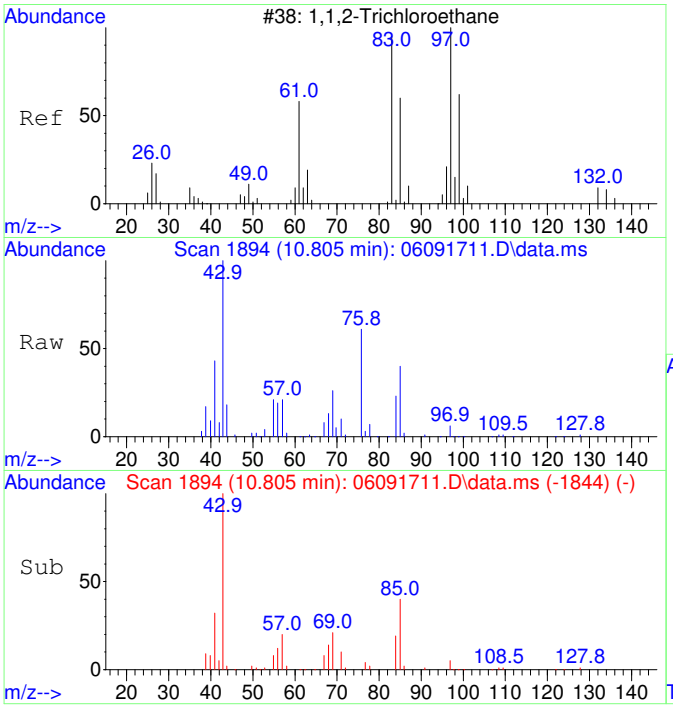


#37
Toluene SCAN
Concen: 15428.98 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 1679459

Ion	Ratio	Lower	Upper
91	100		
92	58.0	29.2	89.2
65	13.9	0.0	44.3

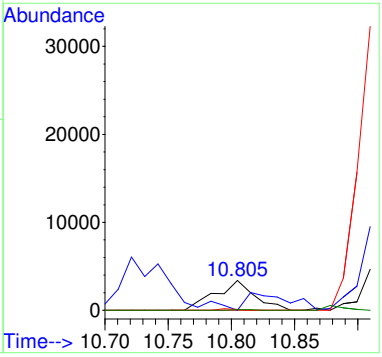


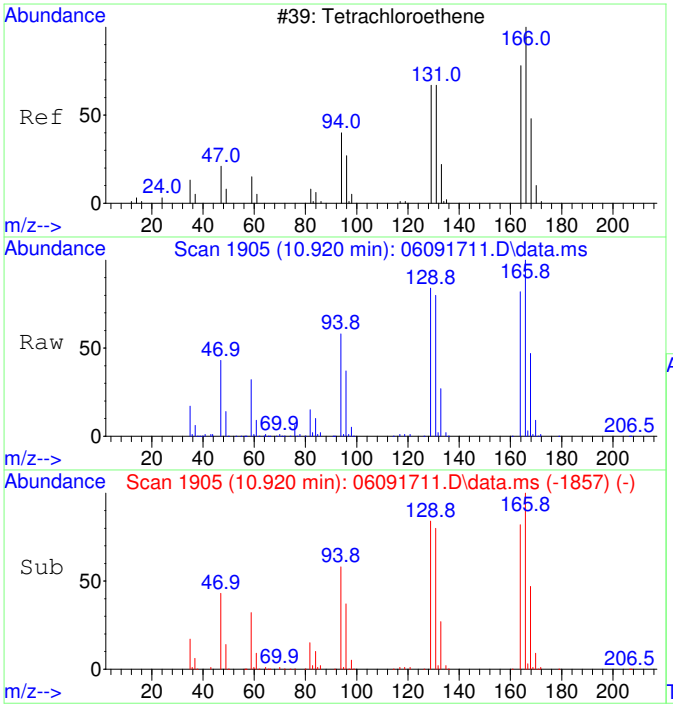


#38
1,1,2-Trichloroethane SCAN
Concen: 301.98 ug/L
RT: 10.805 min Scan# 1894
Delta R.T. 0.021 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 97 Resp: 7403

Ion	Ratio	Lower	Upper
97	100		
83	61.1	57.8	117.8
61	0.0	48.6	108.6#
99	1.4	32.7	92.7#

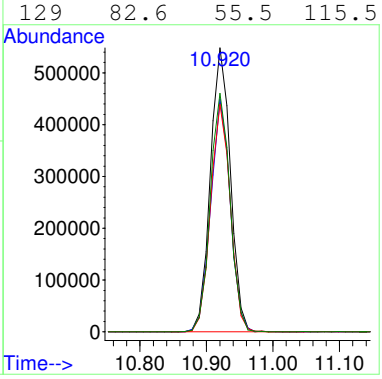


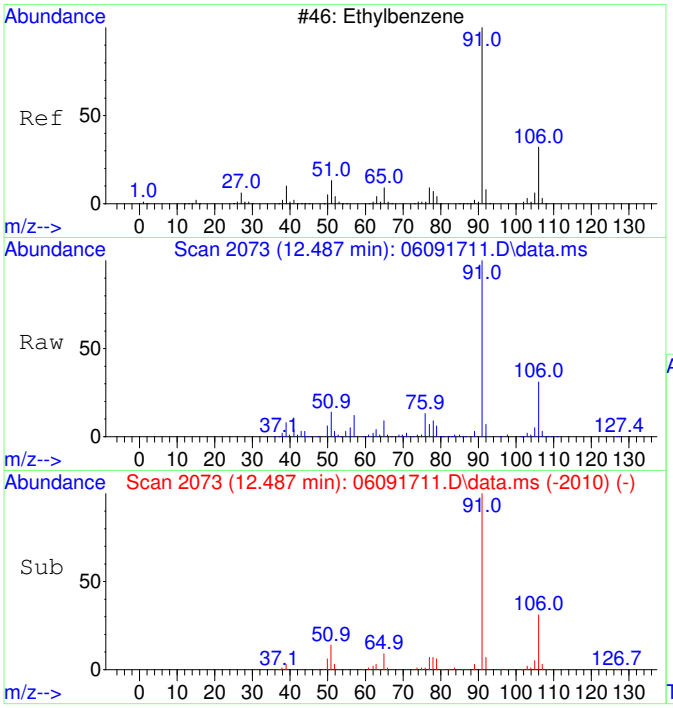


#39
Tetrachloroethene SCAN
Concen: 51678.69 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:166 Resp: 1153233

Ion	Ratio	Lower	Upper
166	100		
164	79.6	45.7	105.7
131	78.8	44.8	104.8
129	82.6	55.5	115.5

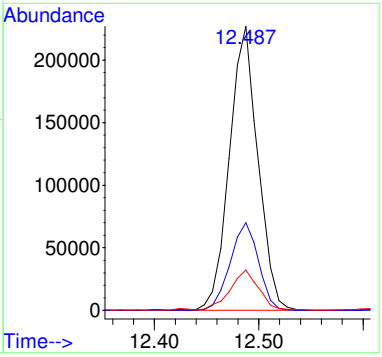


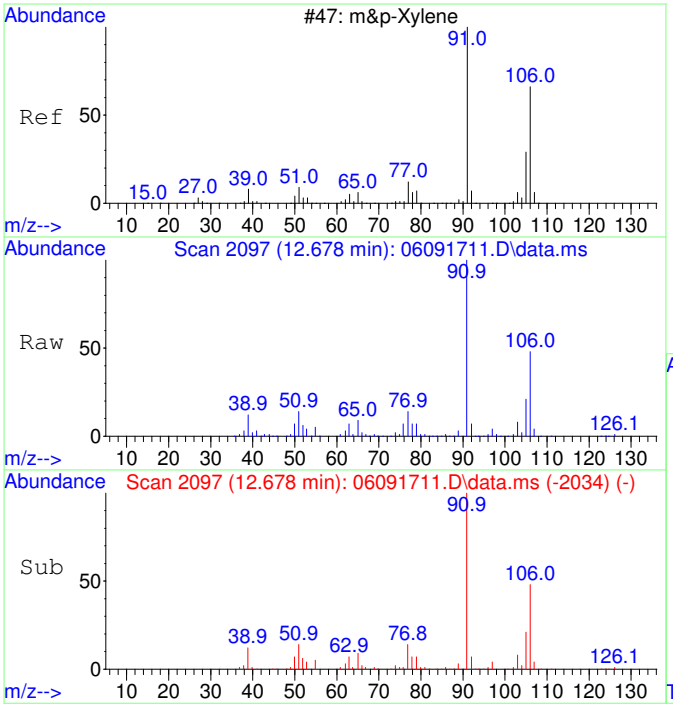


#42
Ethylbenzene SCAN
Concen: 3523.09 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 429400

Ion	Ratio	Lower	Upper
91	100		
106	30.6	0.0	59.8
51	14.2	0.0	45.5

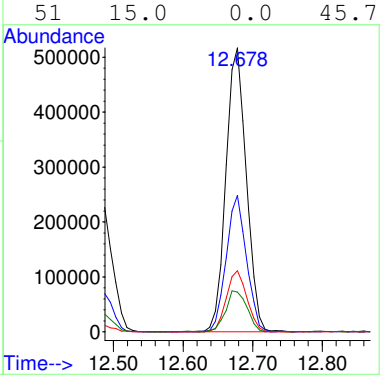


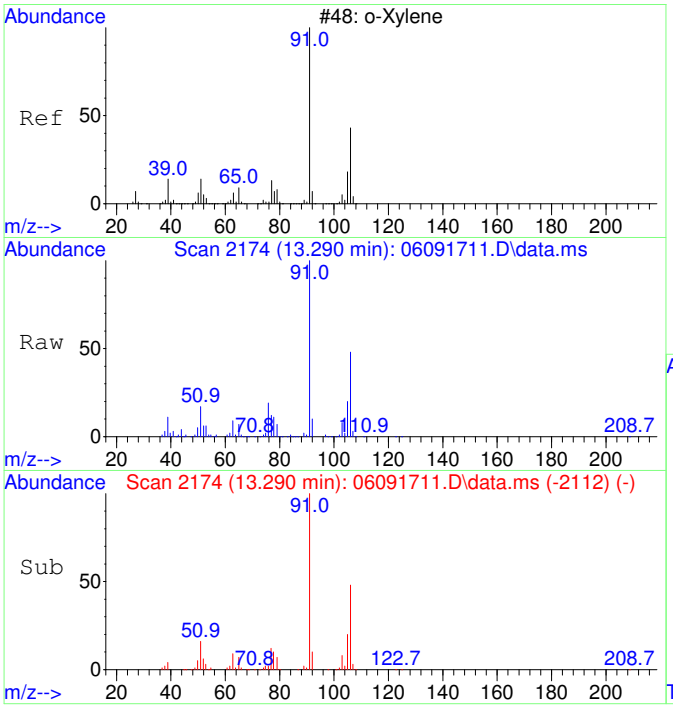


#43
m&p-Xylene SCAN
Concen: 5548.13 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 1055794

Ion	Ratio	Lower	Upper
91	100		
106	47.4	18.5	78.5
105	21.6	0.0	51.3
51	15.0	0.0	45.7

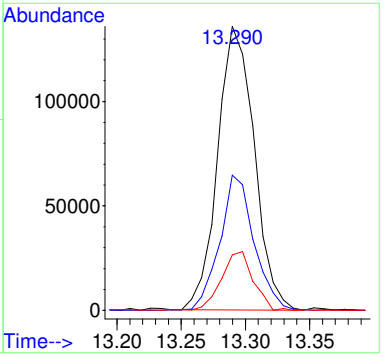


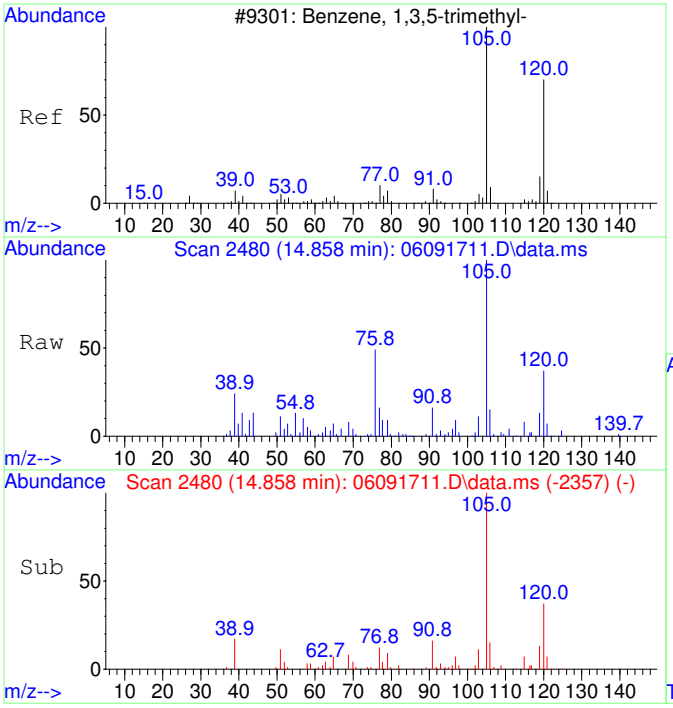


#44
o-Xylene SCAN
Concen: 2737.47 ug/L
RT: 13.290 min Scan# 2174
Delta R.T. -0.008 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion: 91 Resp: 268252

Ion	Ratio	Lower	Upper
91	100		
106	44.7	15.5	75.5
105	17.8	0.0	54.1

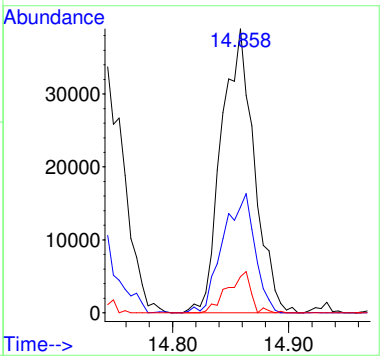


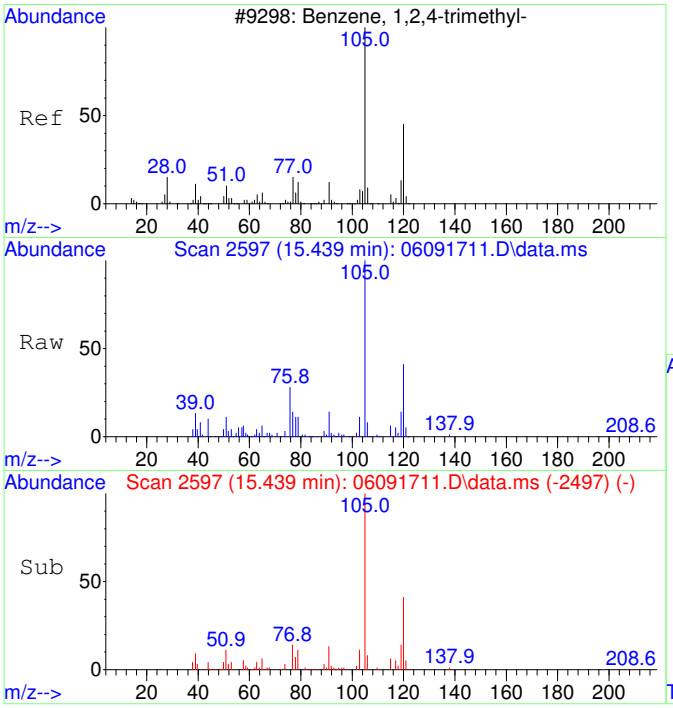


#46
1,3,5-Trimethylbenzene SCAN
Concen: 822.99 ug/L
RT: 14.858 min Scan# 2480
Delta R.T. 0.001 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:105 Resp: 76498

Ion	Ratio	Lower	Upper
105	100		
120	40.9	17.3	77.3
119	10.5	0.0	42.7

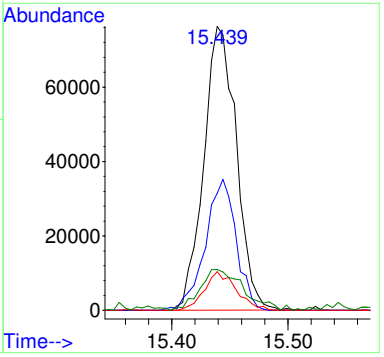




#47
1,2,4-Trimethylbenzene SCAN
Concen: 1543.55 ug/L
RT: 15.439 min Scan# 2597
Delta R.T. -0.004 min
Lab File: 06091711.D
Acq: 9 Jun 2017 14:30

Tgt Ion:105 Resp: 149515

Ion	Ratio	Lower	Upper
105	100		
120	43.6	12.9	72.9
119	13.3	0.0	40.5
77	18.9	0.0	43.3



1706012-04

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091712.D
Acq On : 9 Jun 2017 14:54
InstName : AG5975C
Operator : RH
Sample : 1706012-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 09 16:57:27 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

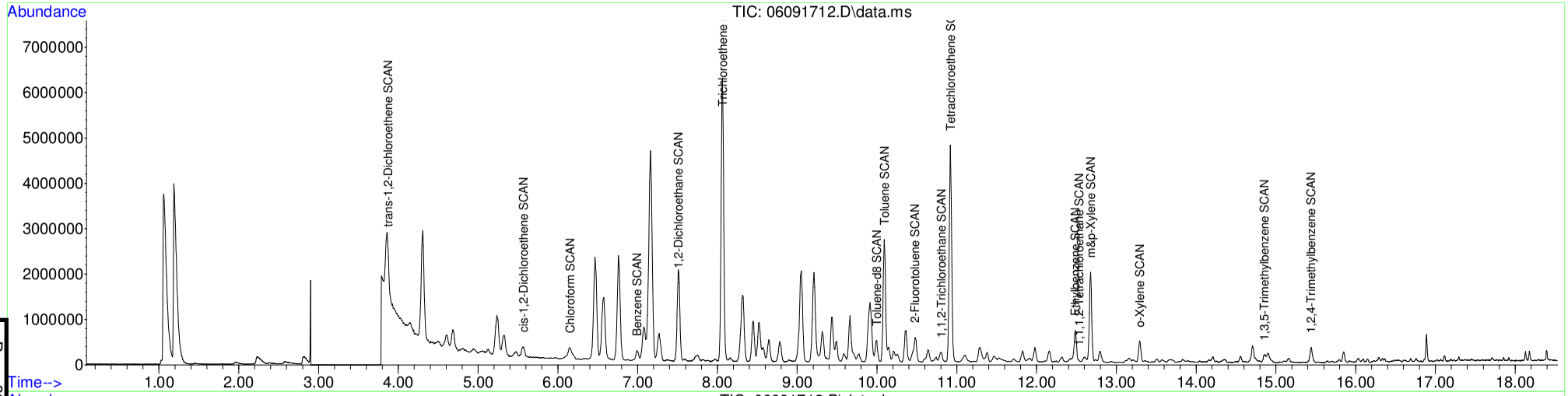
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.480	109	693773	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	579571	5101.03 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 102.02%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.711	61	1436	26.24 ug/L	65
3] trans-1,2-Dichloroethene	3.856	61	35730	602.50 ug/L	83
4] 1,1-Dichloroethane	4.606	63	1738	27.19 ug/L #	1
5] cis-1,2-Dichloroethene	5.561	61	315874	5169.60 ug/L	100
6] Chloroform	6.139	83	329635	5575.16 ug/L	94
8] Carbon tetrachloride	6.638	117	1625	34.69 ug/L	95
9] Benzene	6.991	78	310453	2254.71 ug/L	98
10] 1,2-Dichloroethane	7.064	62	1770	34.70 ug/L	85
11] Trichloroethene	8.063	130	4018062	113468.85 ug/L	100
13] Toluene	10.082	91	3511754	23340.03 ug/L	100
14] 1,1,2-Trichloroethane	10.795	97	9641	299.65 ug/L #	7
15] Tetrachloroethene	10.921	166	2990950	77557.32 ug/L	100
18] Ethylbenzene	12.480	91	817066	5045.89 ug/L	100
19] m&p-Xylene	12.671	91	2088526	16441.43 ug/L	100
20] o-Xylene	13.291	91	550516	4190.49 ug/L	100
22] 1,3,5-Trimethylbenzene	14.853	105	158243	1219.94 ug/L	100
23] 1,2,4-Trimethylbenzene	15.439	105	353948	2661.69 ug/L	99
25) 2-Fluorotoluene SCAN	10.479	109	390131	4638.06 ug/L	95
27) trans-1,2-Dichloroethe...	3.868	61	26246	694.90 ug/L	80
29) cis-1,2-Dichloroethene...	5.566	61	204623	4696.36 ug/L	87
30) Chloroform SCAN	6.150	83	220297	5607.04 ug/L	92
33) Benzene SCAN	6.990	78	215675	2422.03 ug/L	96
34) 1,2-Dichloroethane SCAN	7.503	62	1386	36.07 ug/L	88
35) Trichloroethene SCAN	8.062	130	2210967	107217.91 ug/L	98
36) Toluene-d8 SCAN	9.996	98	354733	5109.87 ug/L	98
37) Toluene SCAN	10.091	91	2146901	23186.88 ug/L	100
38) 1,1,2-Trichloroethane ...	10.804	97	6664	319.57 ug/L #	30
39) Tetrachloroethene SCAN	10.920	166	1434109	75550.80 ug/L	96
41) 1,1,1,2-Tetrachloroeth...	12.527	131	586	33.11 ug/L #	22
42) Ethylbenzene SCAN	12.487	91	502355	4845.46 ug/L	99
43) m&p-Xylene SCAN	12.678	91	1266195	7822.23 ug/L	97
44) o-Xylene SCAN	13.297	91	335262	4022.11 ug/L	95
46) 1,3,5-Trimethylbenzene...	14.852	105	88462	1118.82 ug/L	98
47) 1,2,4-Trimethylbenzene...	15.443	105	208206	2526.92 ug/L	94

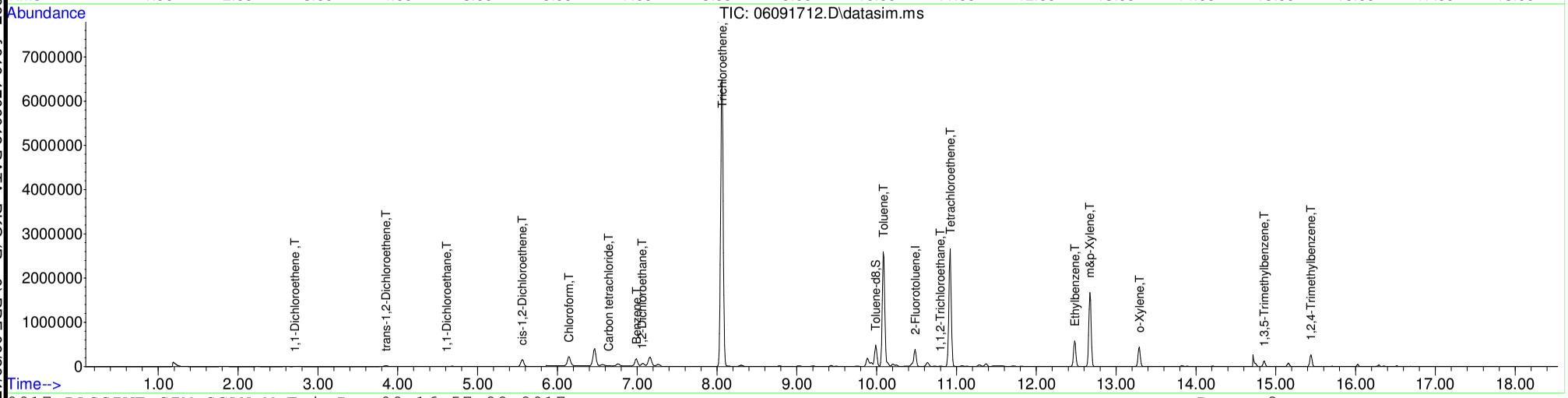
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091712.D
Acq On : 9 Jun 2017 14:54
InstName : AG5975C
Operator : RH
Sample : 1706012-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 09 16:57:27 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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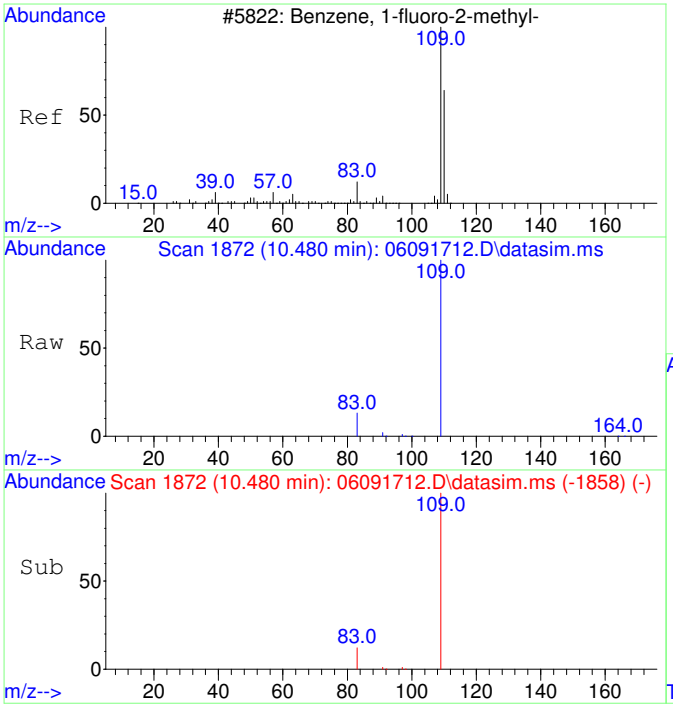
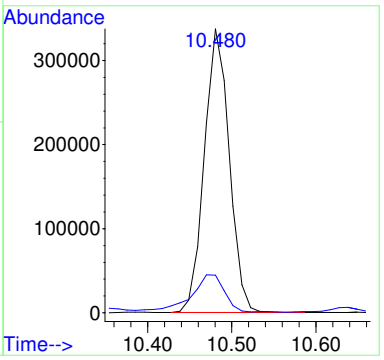
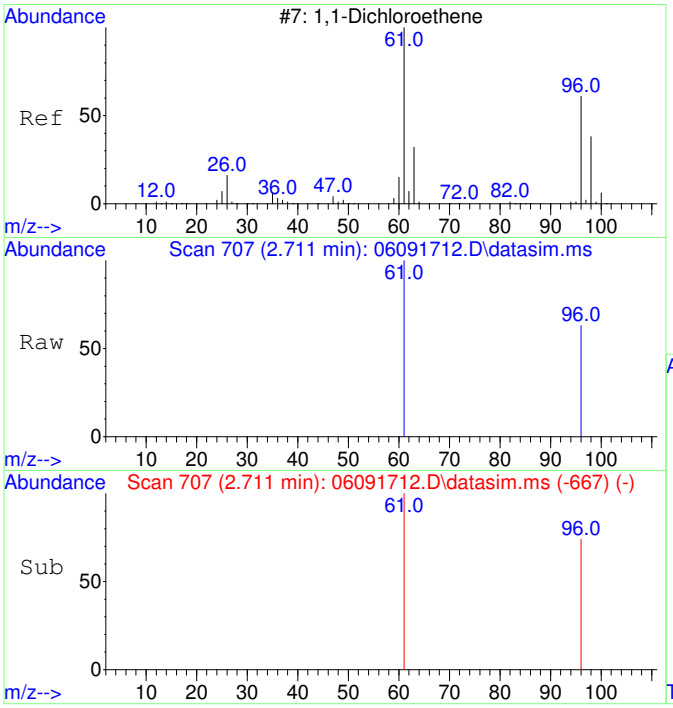


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:109 Resp: 693773

Ion	Ratio	Lower	Upper
109	100		
83	15.6	0.0	44.4

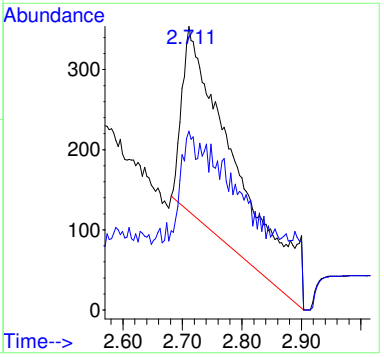




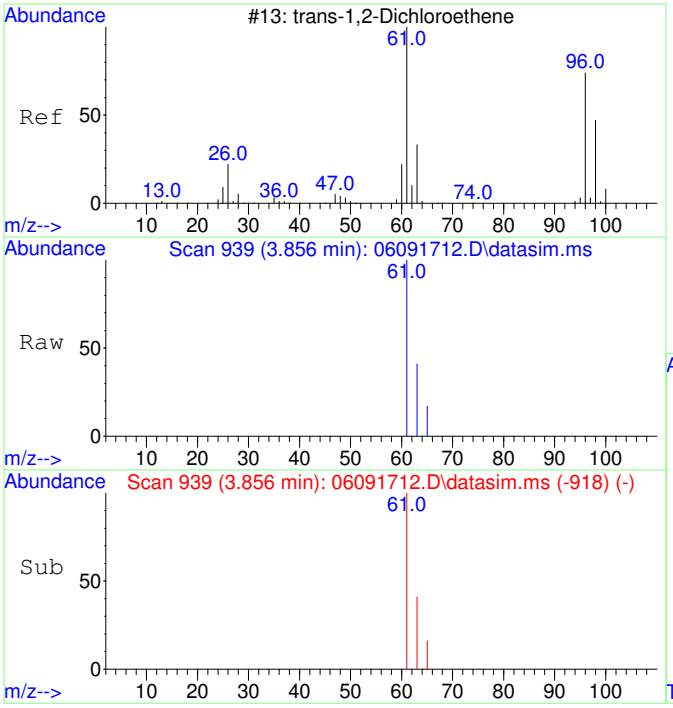
#2
1,1-Dichloroethene
Concen: 26.24 ug/L
RT: 2.711 min Scan# 707
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 61 Resp: 1436

Ion	Ratio	Lower	Upper
61	100		
96	76.4	21.8	81.8



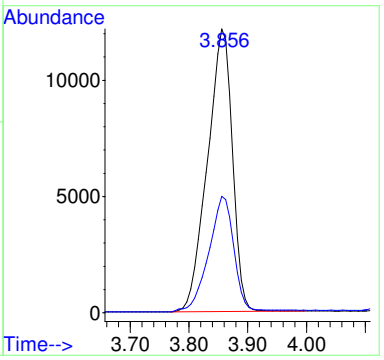
Before MI:
IMPROPER
BASELINE

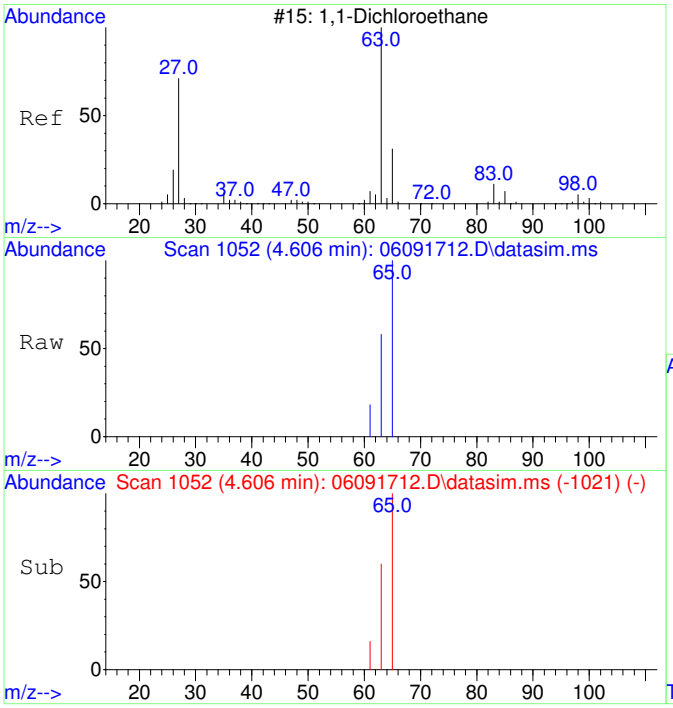


#3
trans-1,2-Dichloroethene
Concen: 602.50 ug/L
RT: 3.856 min Scan# 939
Delta R.T. -0.013 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 61 Resp: 35730

Ion	Ratio	Lower	Upper
61	100		
63	40.5	1.0	61.0

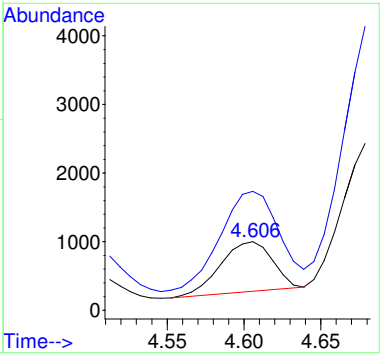


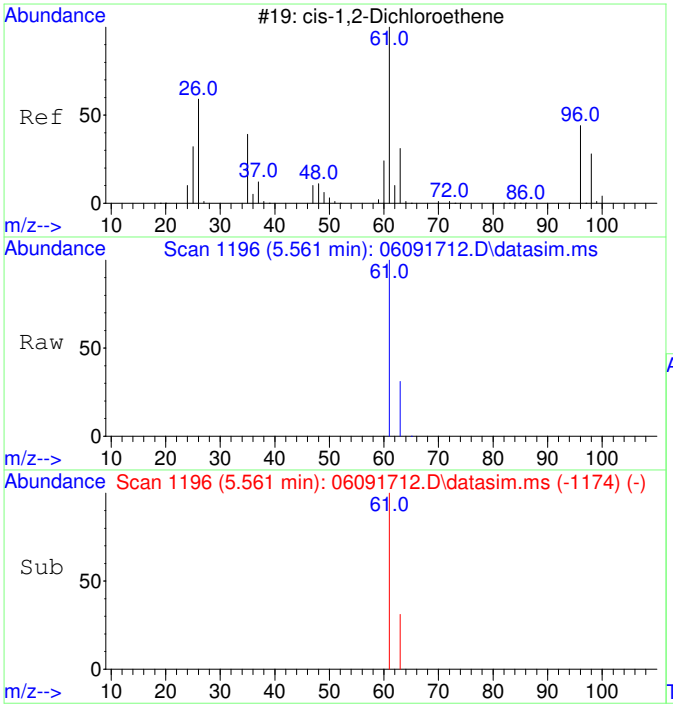


#4
1,1-Dichloroethane
Concen: 27.19 ug/L
RT: 4.606 min Scan# 1052
Delta R.T. 0.053 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 63 Resp: 1738

Ion	Ratio	Lower	Upper
63	100		
65	178.0	0.4	60.4#

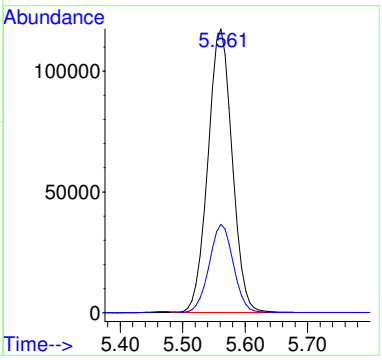


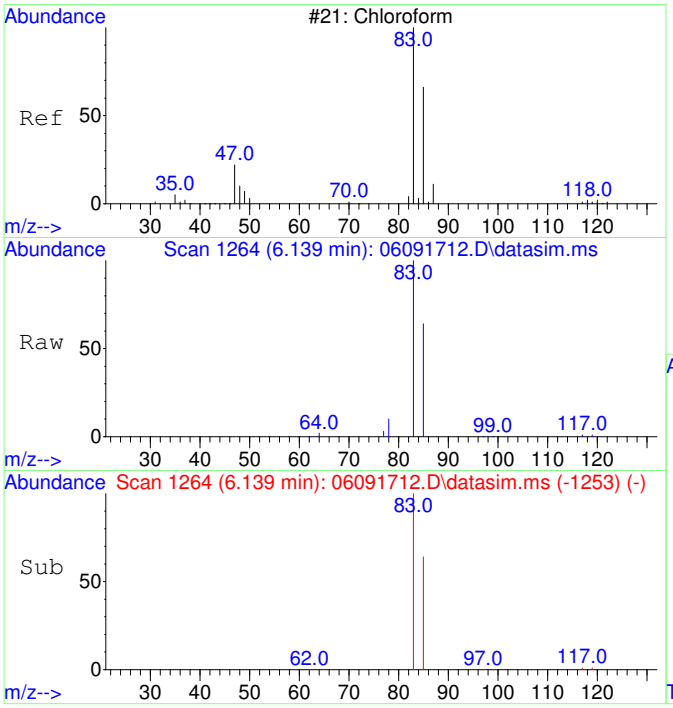


#5
cis-1,2-Dichloroethene
Concen: 5169.60 ug/L
RT: 5.561 min Scan# 1196
Delta R.T. -0.007 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 61 Resp: 315874

Ion	Ratio	Lower	Upper
61	100		
63	30.7	0.9	60.9

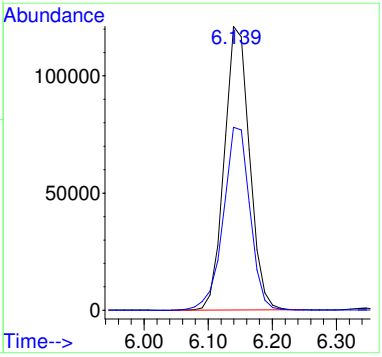


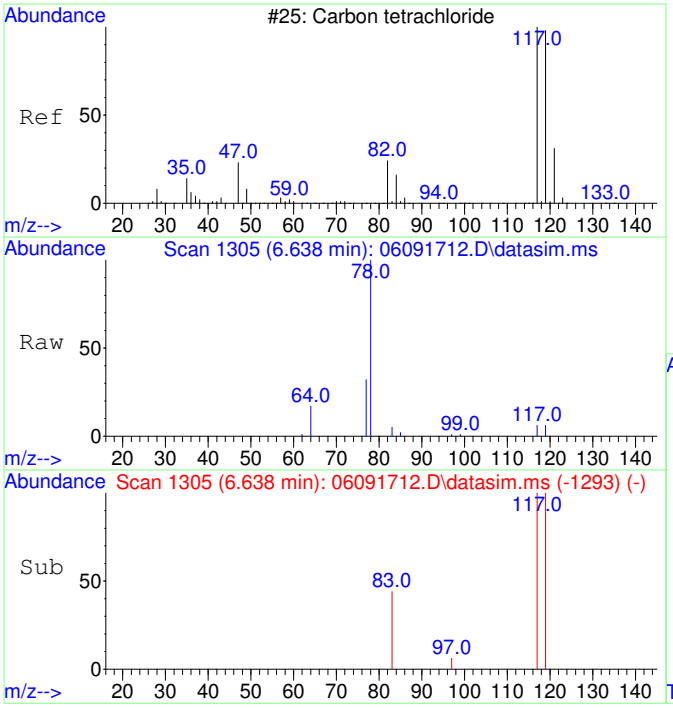


#6
Chloroform
Concen: 5575.16 ug/L
RT: 6.139 min Scan# 1264
Delta R.T. -0.012 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 83 Resp: 329635

Ion	Ratio	Lower	Upper
83	100		
85	68.0	33.7	93.7

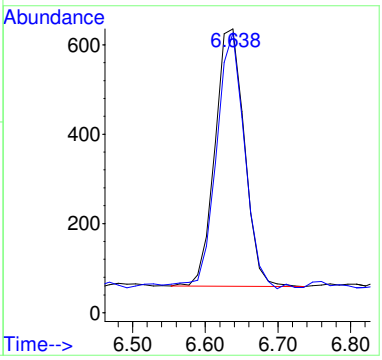


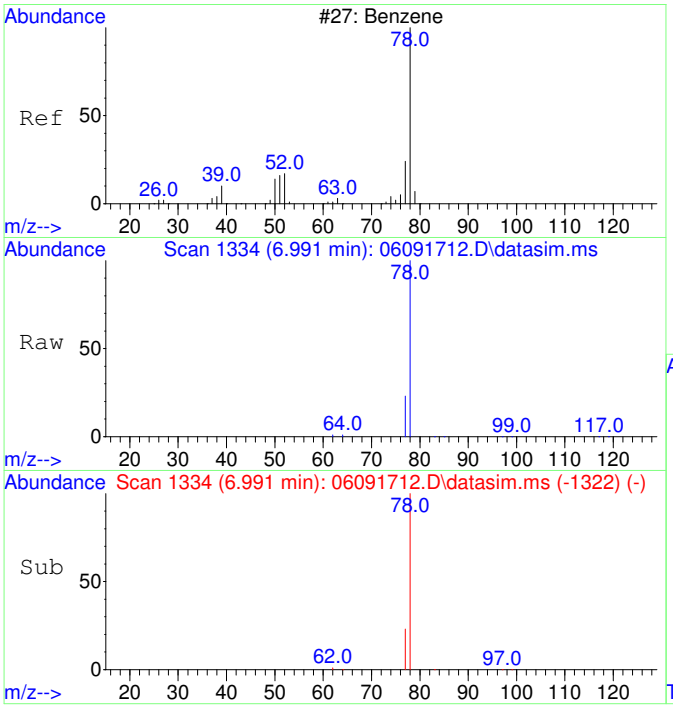


#8
Carbon tetrachloride
Concen: 34.69 ug/L
RT: 6.638 min Scan# 1305
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:117 Resp: 1625

Ion	Ratio	Lower	Upper
117	100		
119	91.1	65.5	125.5

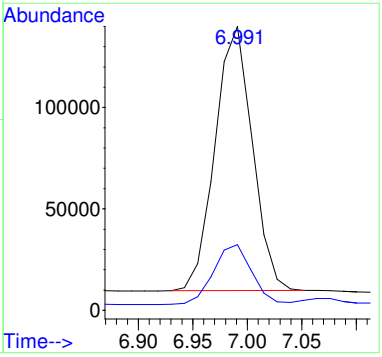


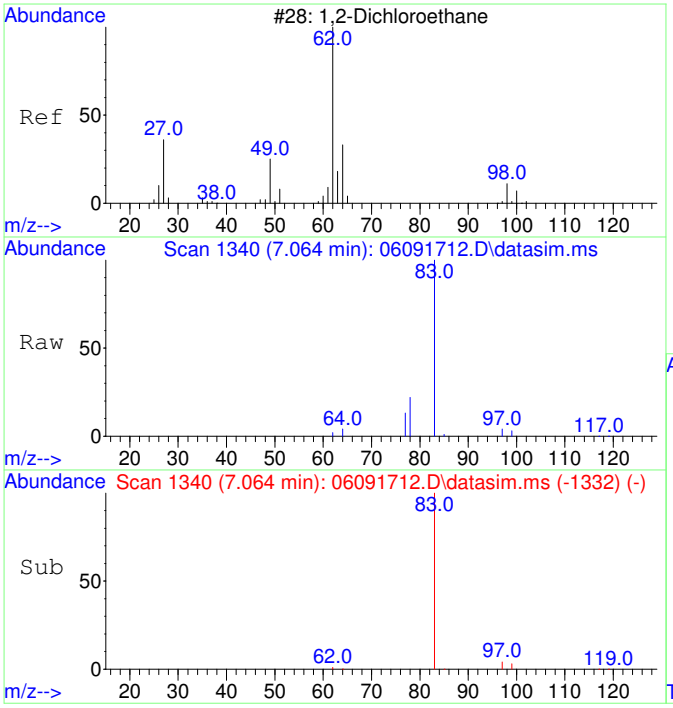


#9
Benzene
Concen: 2254.71 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 78 Resp: 310453

Ion	Ratio	Lower	Upper
78	100		
77	22.3	0.0	53.0

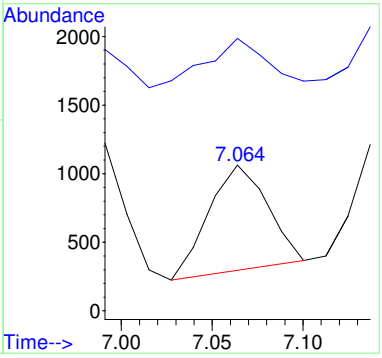


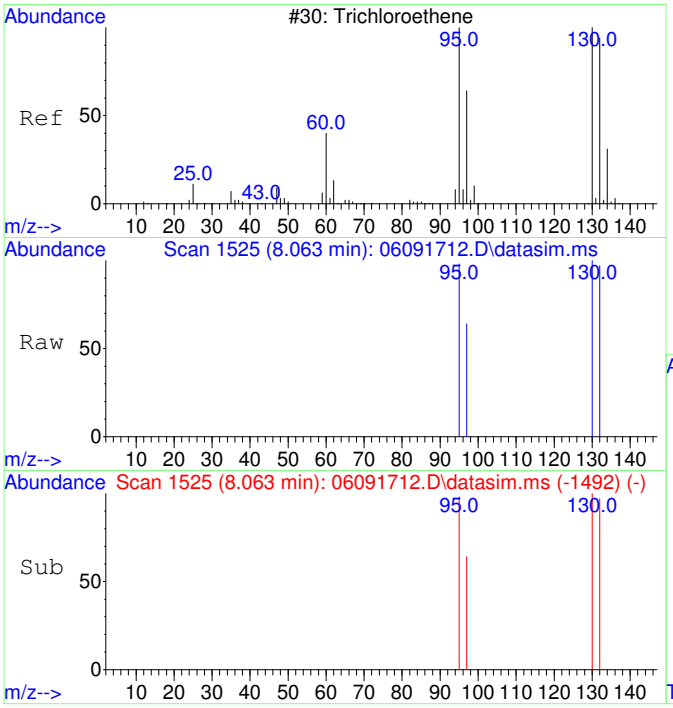


#10
1,2-Dichloroethane
Concen: 34.70 ug/L
RT: 7.064 min Scan# 1340
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 62 Resp: 1770

Ion	Ratio	Lower	Upper
62	100		
64	41.0	2.6	62.6

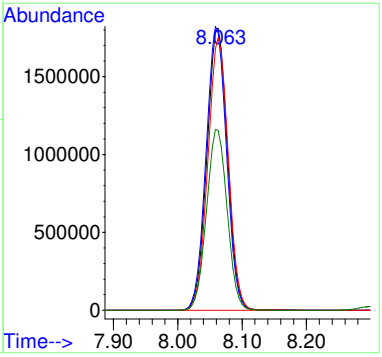


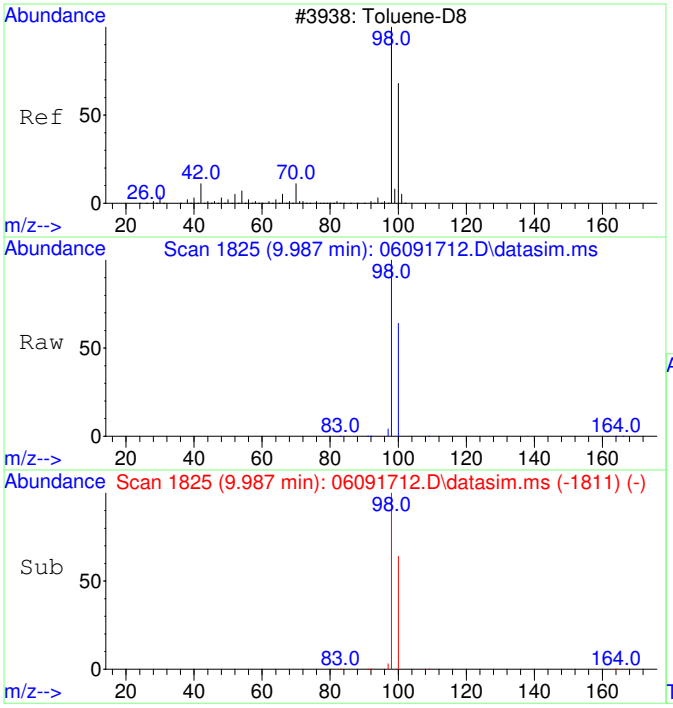


#11
Trichloroethene
Concen: 113468.85 ug/L
RT: 8.063 min Scan# 1525
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:130 Resp: 4018062

Ion	Ratio	Lower	Upper
130	100		
95	100.1	69.8	129.8
132	95.9	76.4	116.4
97	64.2	44.3	84.3

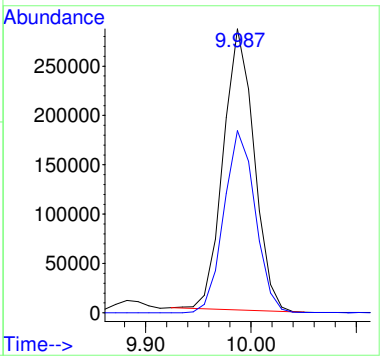


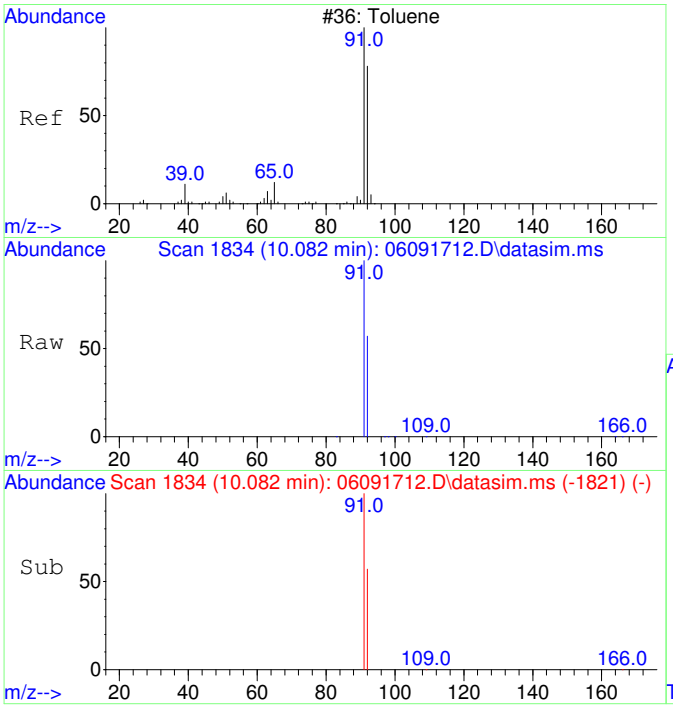


#12
Toluene-d8
Concen: 5101.03 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 98 Resp: 579571

Ion	Ratio	Lower	Upper
98	100		
100	65.9	34.2	94.2

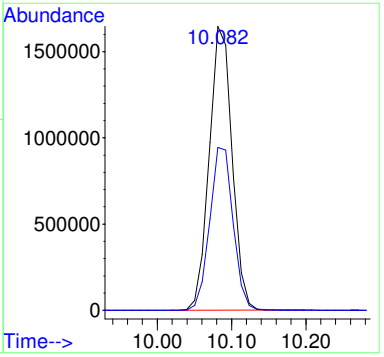


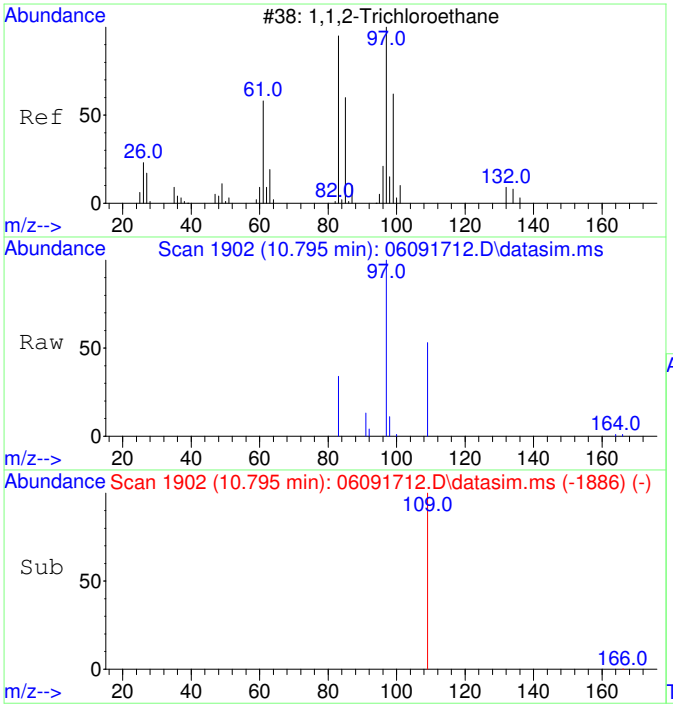


#13
Toluene
Concen: 23340.03 ug/L
RT: 10.082 min Scan# 1834
Delta R.T. -0.011 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 3511754

Ion	Ratio	Lower	Upper
91	100		
92	58.4	28.4	88.4

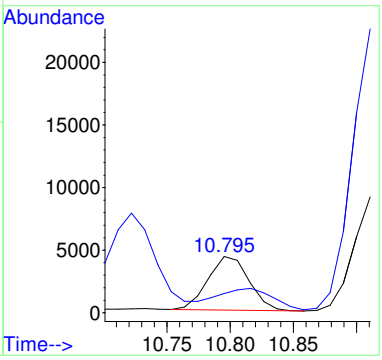


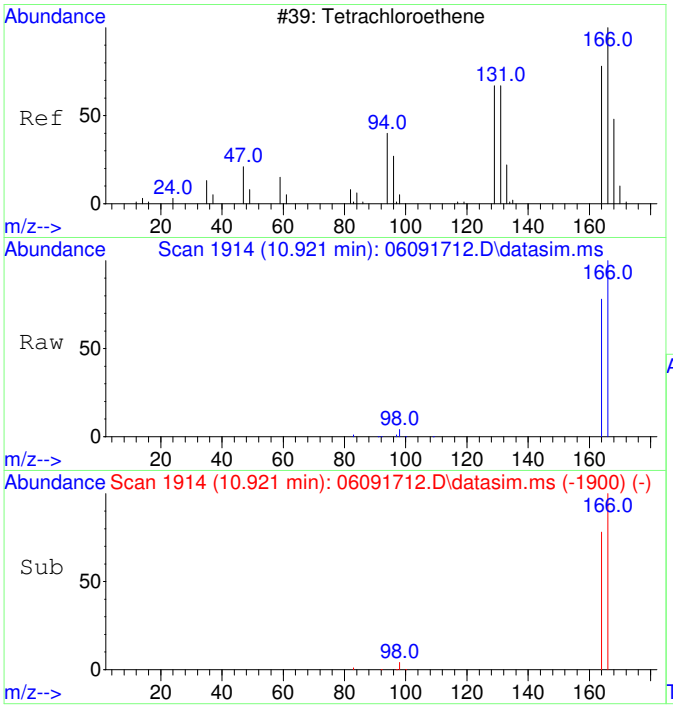


#14
1,1,2-Trichloroethane
Concen: 299.65 ug/L
RT: 10.795 min Scan# 1902
Delta R.T. 0.021 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 97 Resp: 9641

Ion	Ratio	Lower	Upper
97	100		
83	0.0	54.5	114.5#

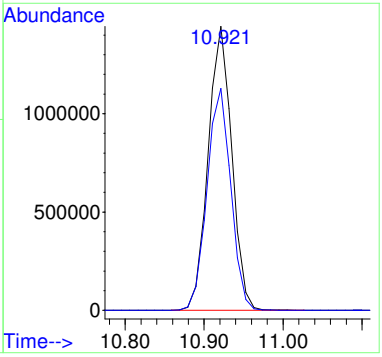


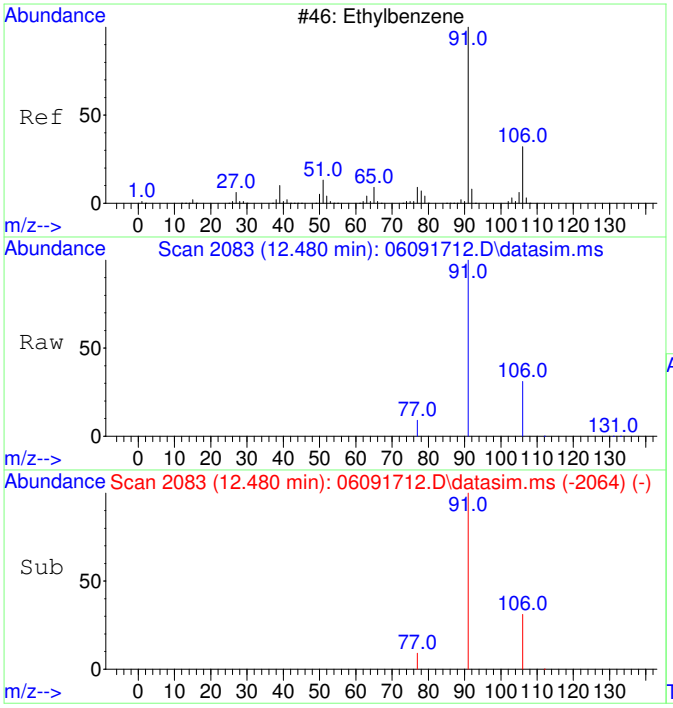


#15
Tetrachloroethene
Concen: 77557.32 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:166 Resp: 2990950

Ion	Ratio	Lower	Upper
166	100		
164	78.4	48.1	108.1

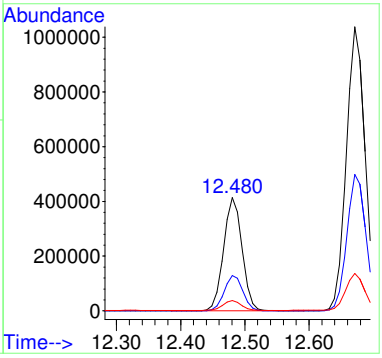


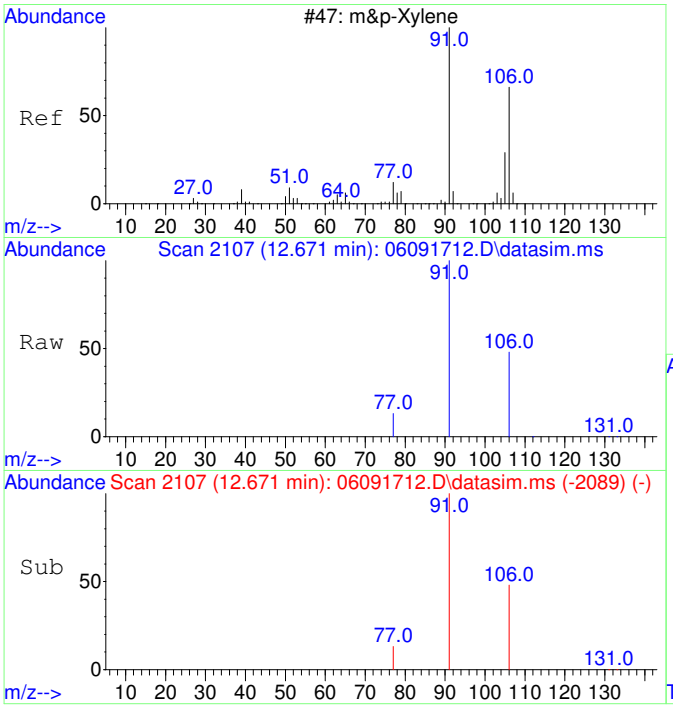


#18
Ethylbenzene
Concen: 5045.89 ug/L
RT: 12.480 min Scan# 2083
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 817066

Ion	Ratio	Lower	Upper
91	100		
106	31.4	1.2	61.2
77	8.6	0.0	38.6

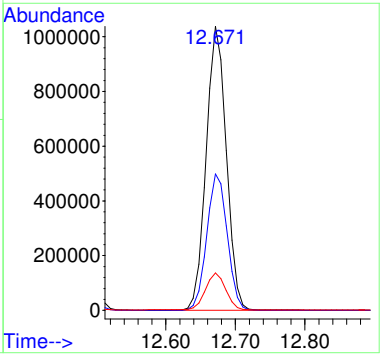


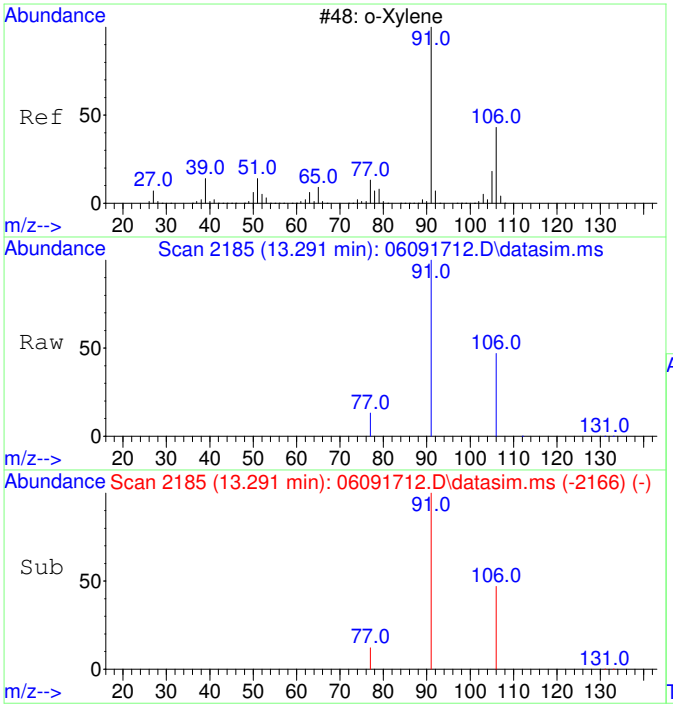


#19
m&p-Xylene
Concen: 16441.43 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 2088526

Ion	Ratio	Lower	Upper
91	100		
106	48.5	18.4	78.4
77	12.9	0.0	43.1

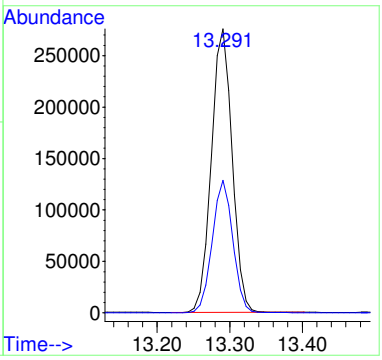


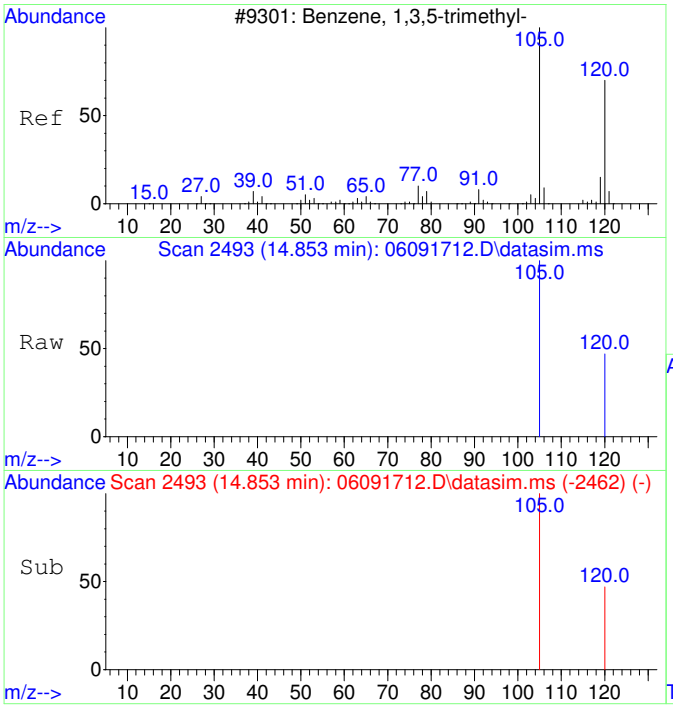


#20
o-Xylene
Concen: 4190.49 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 550516

Ion	Ratio	Lower	Upper
91	100		
106	45.8	16.0	76.0

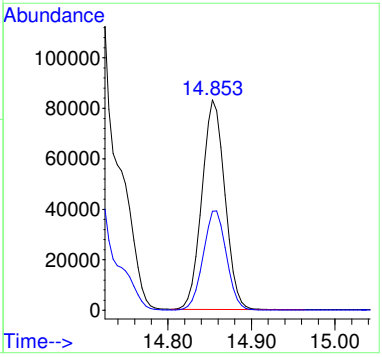


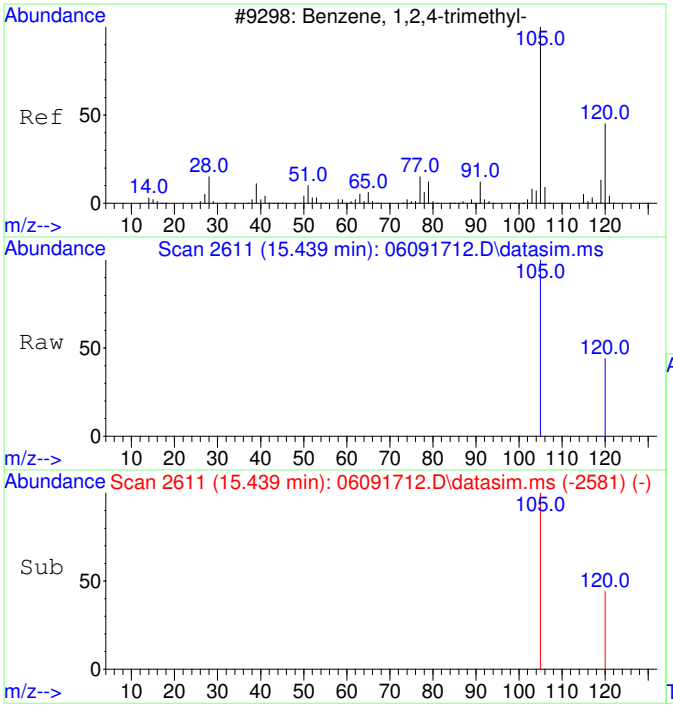


#22
1,3,5-Trimethylbenzene
Concen: 1219.94 ug/L
RT: 14.853 min Scan# 2493
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:105 Resp: 158243

Ion	Ratio	Lower	Upper
105	100		
120	47.8	18.0	78.0

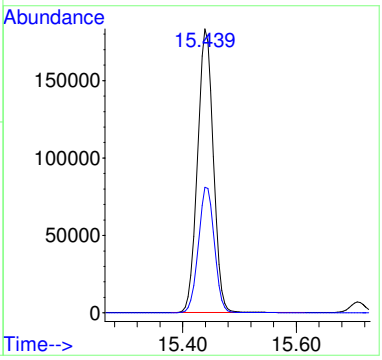


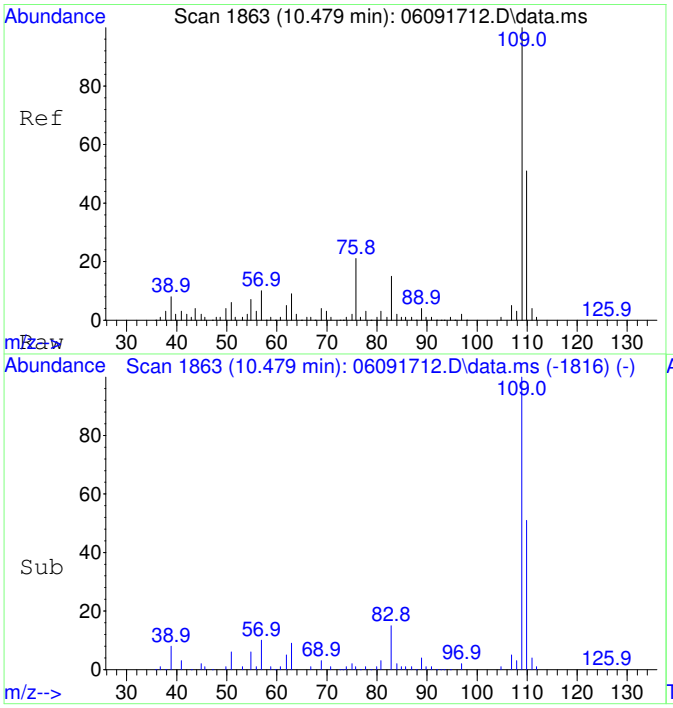


#23
1,2,4-Trimethylbenzene
Concen: 2661.69 ug/L
RT: 15.439 min Scan# 2611
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:105 Resp: 353948

Ion	Ratio	Lower	Upper
105	100		
120	44.8	14.4	74.4

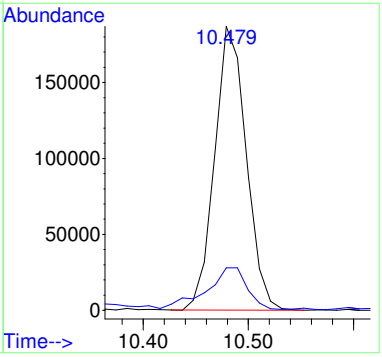


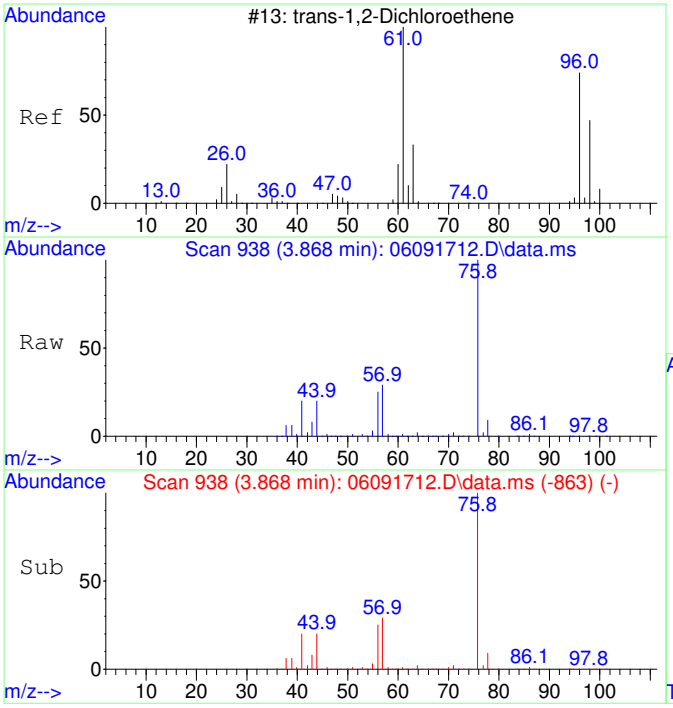


#25
2-Fluorotoluene SCAN
Concen: 4638.06 ug/L
RT: 10.479 min Scan# 1863
Delta R.T. -0.011 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:109 Resp: 390131

Ion	Ratio	Lower	Upper
109	100		
83	18.2	0.0	46.1

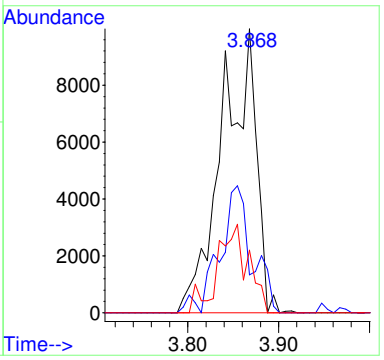


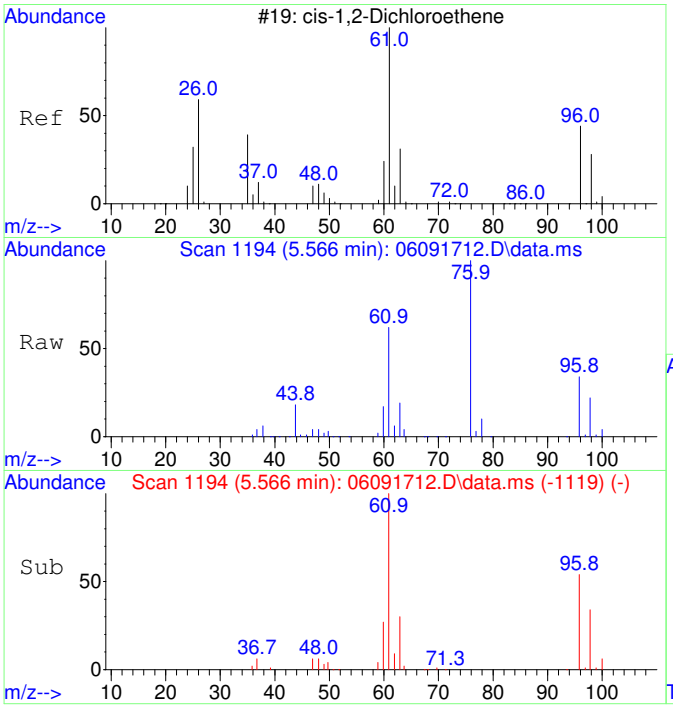


#27
trans-1,2-Dichloroethene SCAN
Concen: 694.90 ug/L
RT: 3.868 min Scan# 938
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 61 Resp: 26246

Ion	Ratio	Lower	Upper
61	100		
96	41.9	26.1	86.1
98	22.0	4.4	64.4

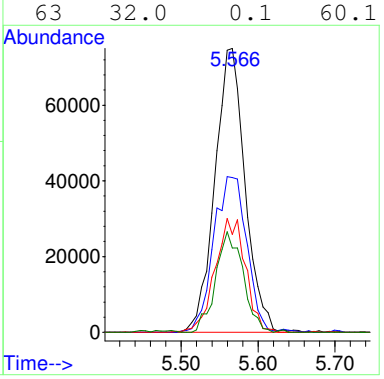


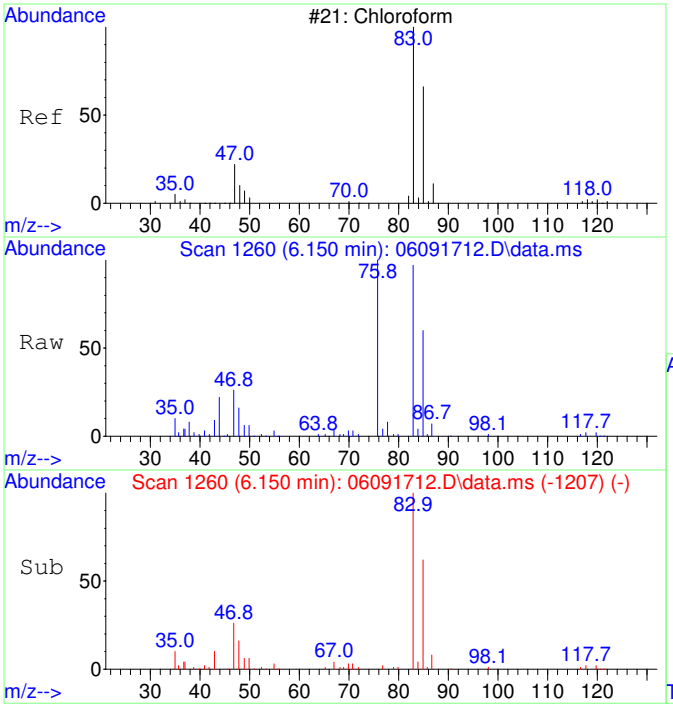


#29
cis-1,2-Dichloroethene SCAN
Concen: 4696.36 ug/L
RT: 5.566 min Scan# 1194
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 61 Resp: 204623

Ion	Ratio	Lower	Upper
61	100		
96	59.0	17.5	77.5
98	40.2	1.9	61.9
63	32.0	0.1	60.1

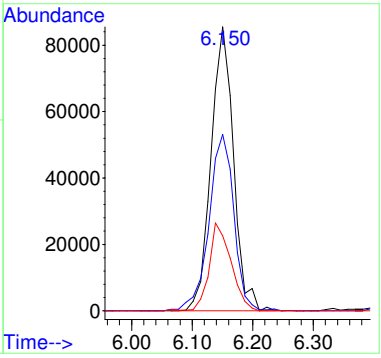


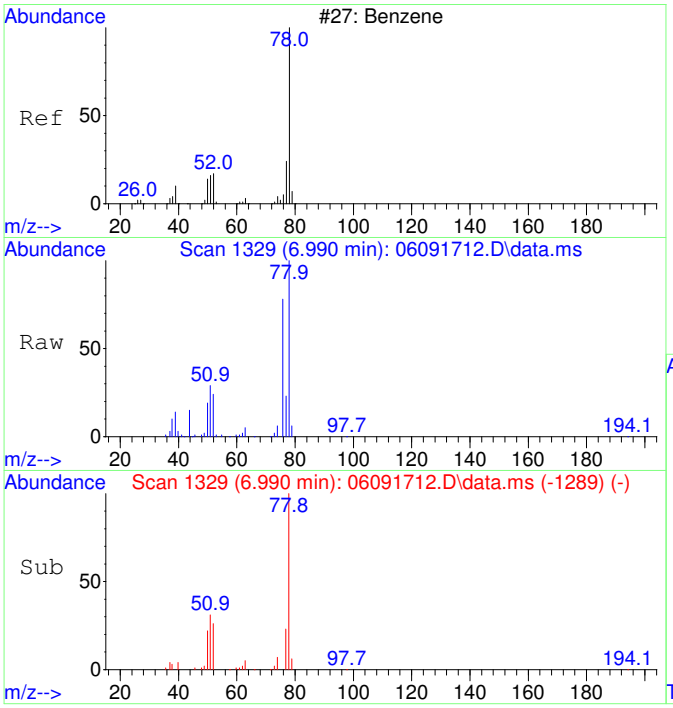


#30
Chloroform SCAN
Concen: 5607.04 ug/L
RT: 6.150 min Scan# 1260
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 83 Resp: 220297

Ion	Ratio	Lower	Upper
83	100		
85	68.7	31.2	91.2
47	30.2	3.2	63.2

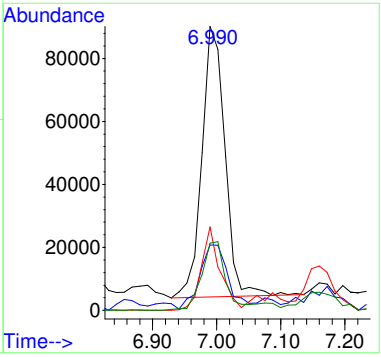


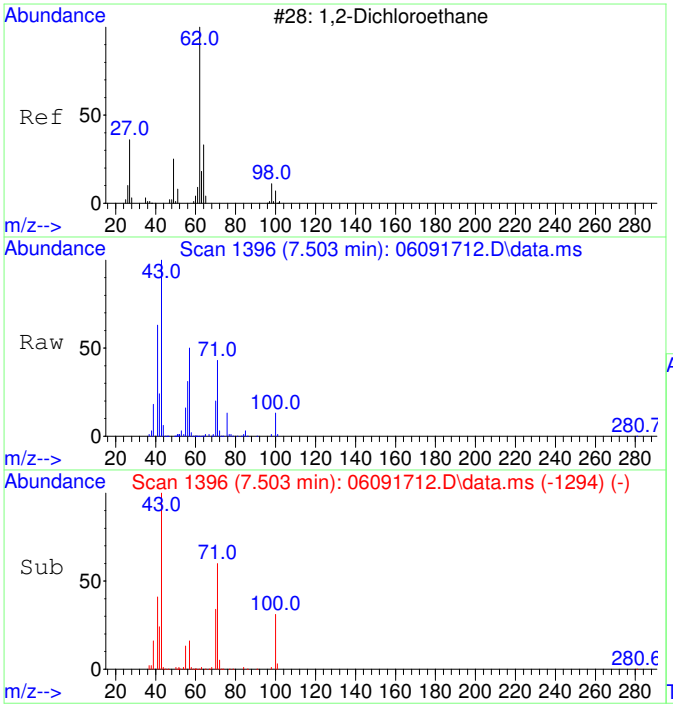


#33
Benzene SCAN
Concen: 2422.03 ug/L
RT: 6.990 min Scan# 1329
Delta R.T. -0.012 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 78 Resp: 215675

Ion	Ratio	Lower	Upper
78	100		
77	26.0	0.0	55.2
51	23.9	0.0	52.4
52	26.5	0.0	53.3

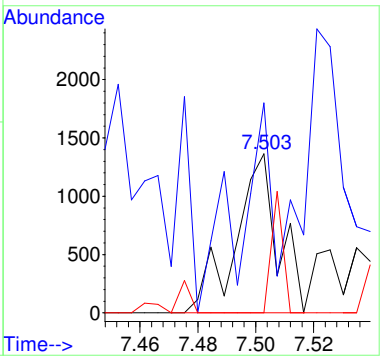


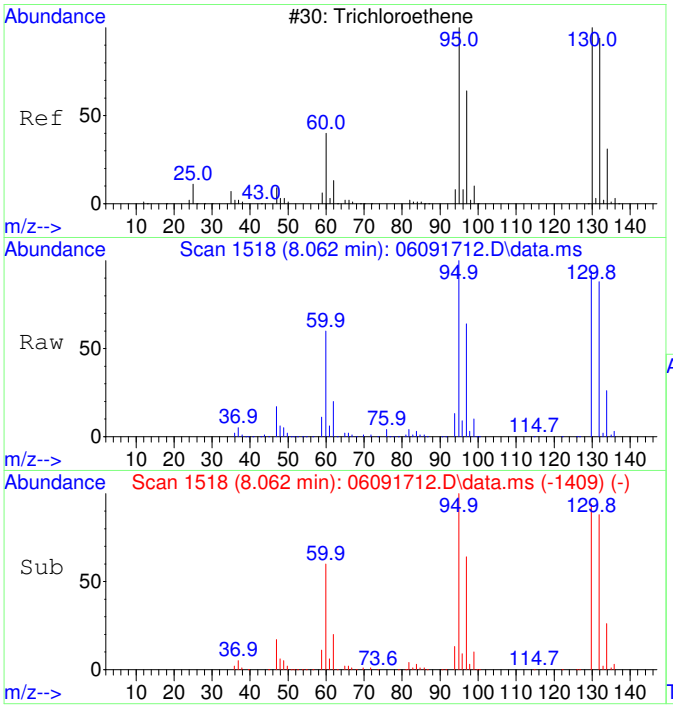


#34
1,2-Dichloroethane SCAN
Concen: 36.07 ug/L
RT: 7.503 min Scan# 1396
Delta R.T. 0.440 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 62 Resp: 1386

Ion	Ratio	Lower	Upper
62	100		
64	45.7	7.4	67.4
49	20.6	0.0	54.8

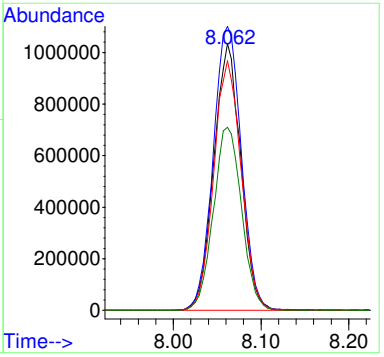


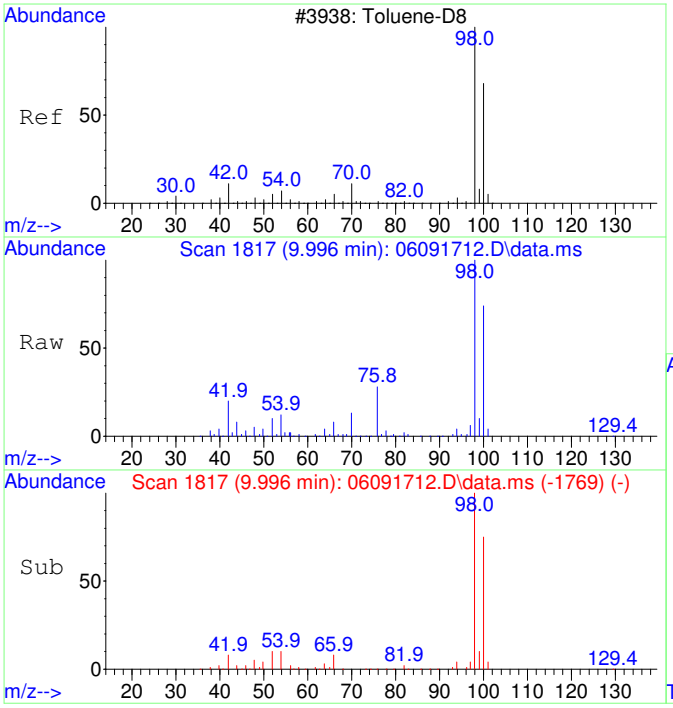


#35
Trichloroethene SCAN
Concen: 107217.91 ug/L
RT: 8.062 min Scan# 1518
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:130 Resp: 2210967

Ion	Ratio	Lower	Upper
130	100		
95	111.3	76.1	136.1
132	95.5	65.6	125.6
97	71.9	41.8	101.8

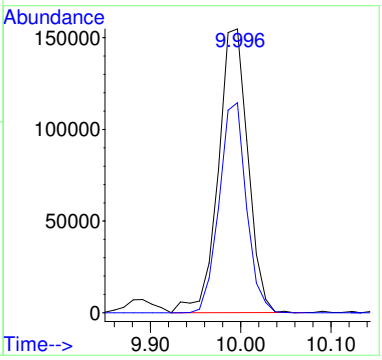


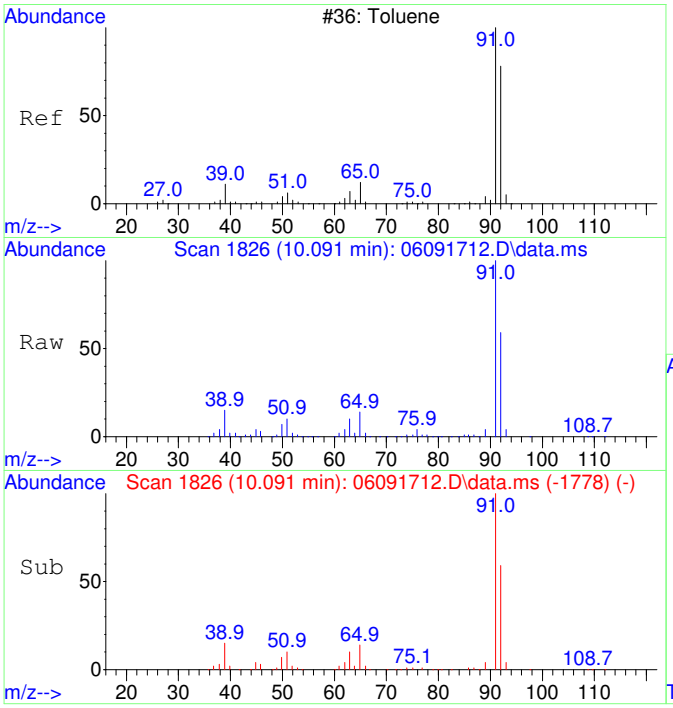


#36
Toluene-d8 SCAN
Concen: 5109.87 ug/L
RT: 9.996 min Scan# 1817
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 98 Resp: 354733

Ion	Ratio	Lower	Upper
98	100		
100	67.8	36.2	96.2

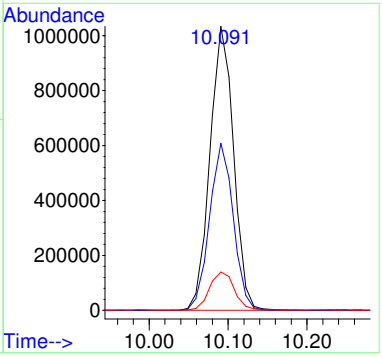


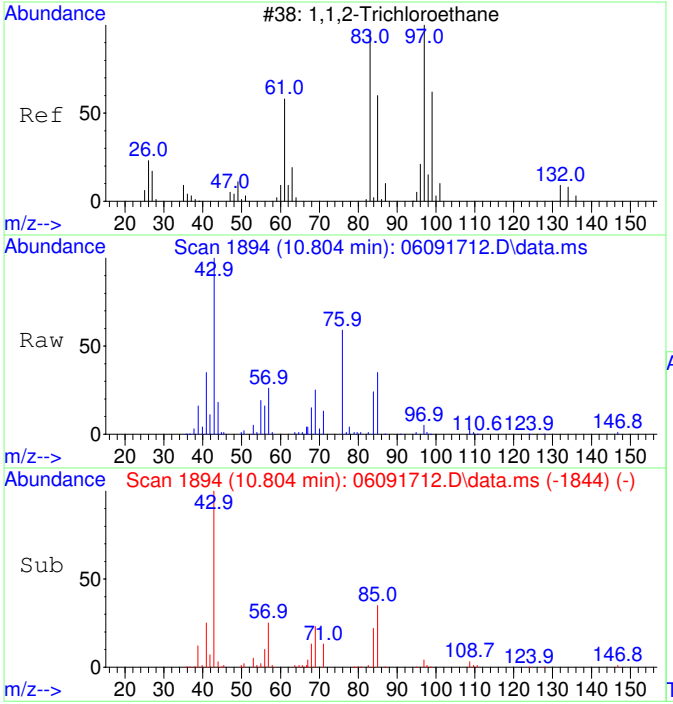


#37
Toluene SCAN
Concen: 23186.88 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 2146901

Ion	Ratio	Lower	Upper
91	100		
92	59.2	29.2	89.2
65	14.3	0.0	44.3

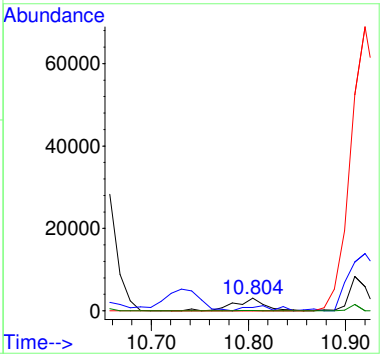


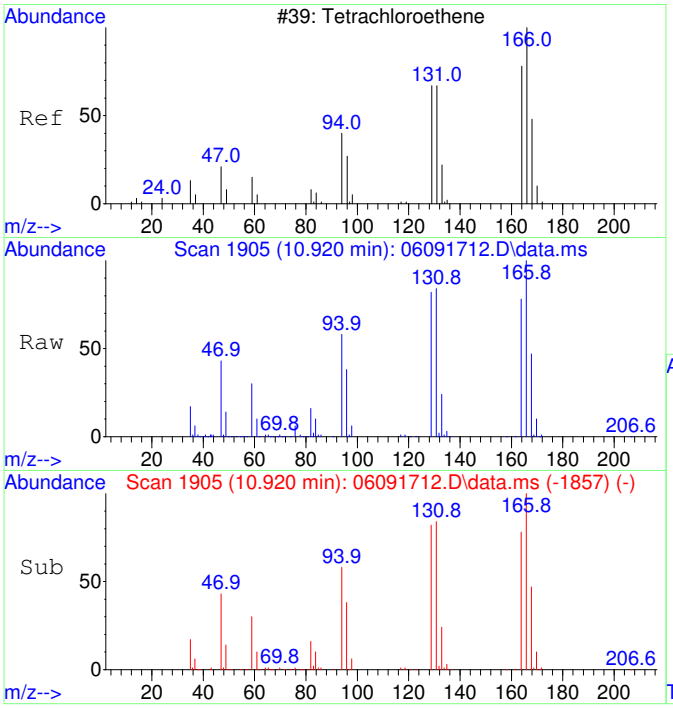


#38
1,1,2-Trichloroethane SCAN
Concen: 319.57 ug/L
RT: 10.804 min Scan# 1894
Delta R.T. 0.021 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 97 Resp: 6664

Ion	Ratio	Lower	Upper
97	100		
83	44.7	57.8	117.8#
61	0.0	48.6	108.6#
99	2.1	32.7	92.7#

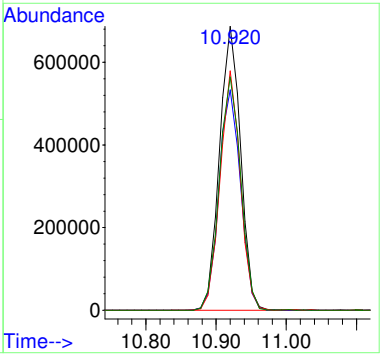


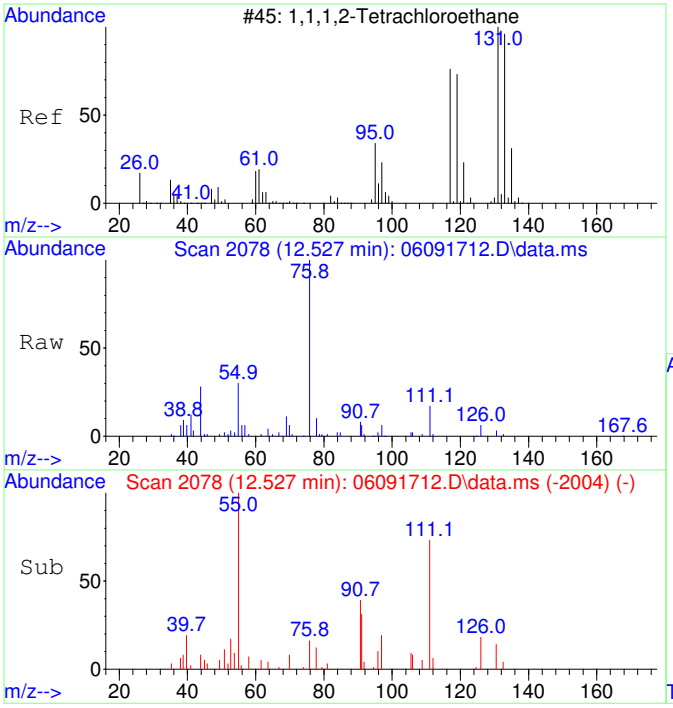


#39
Tetrachloroethene SCAN
Concen: 75550.80 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:166 Resp: 1434109

Ion	Ratio	Lower	Upper
166	100		
164	79.1	45.7	105.7
131	80.6	44.8	104.8
129	83.6	55.5	115.5

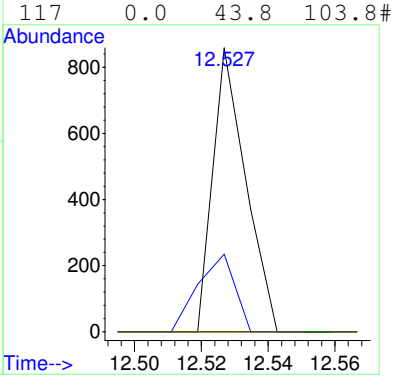


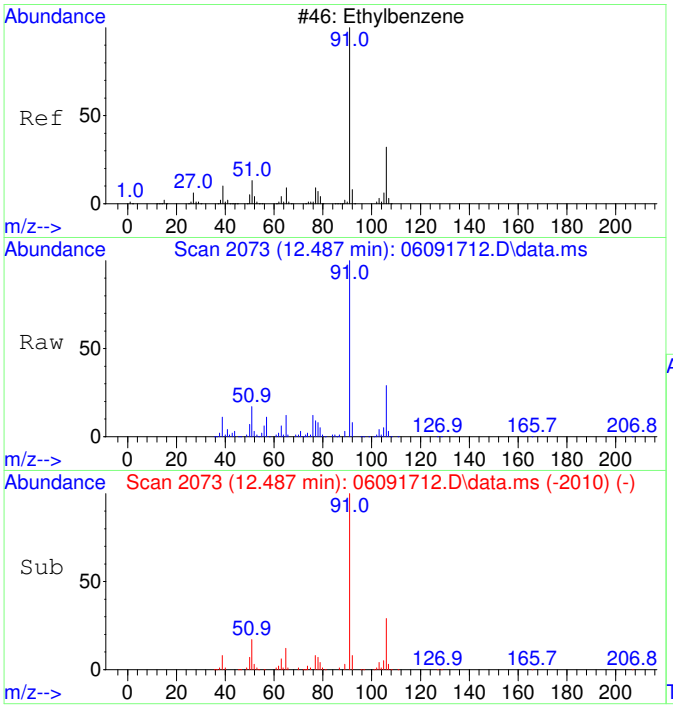


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 33.11 ug/L
RT: 12.527 min Scan# 2078
Delta R.T. 0.087 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:131 Resp: 586

Ion	Ratio	Lower	Upper
131	100		
133	30.9	63.5	123.5#
119	0.0	38.0	98.0#
117	0.0	43.8	103.8#

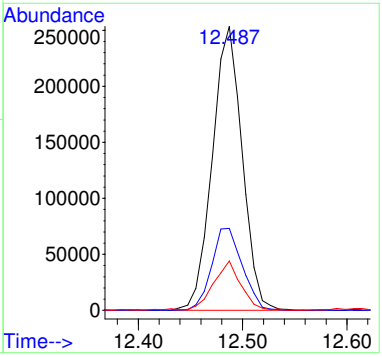


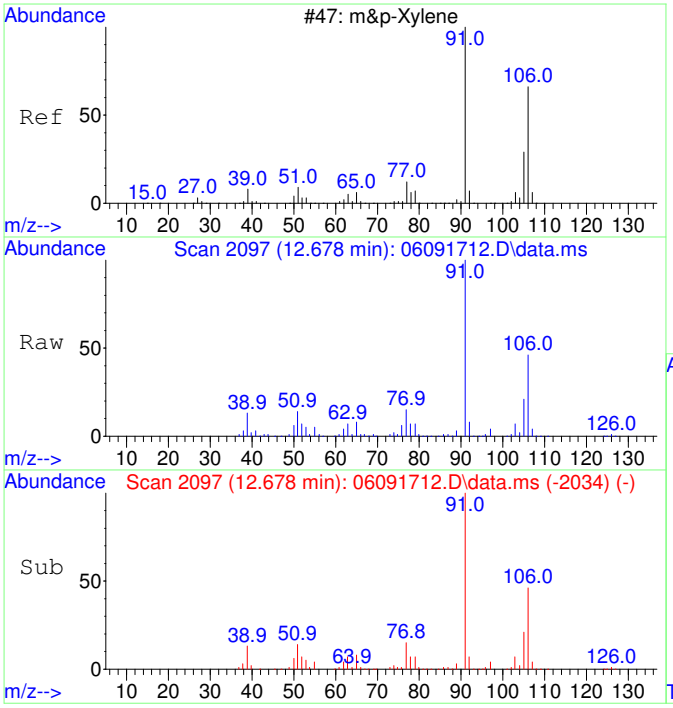


#42
Ethylbenzene SCAN
Concen: 4845.46 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 502355

Ion	Ratio	Lower	Upper
91	100		
106	29.8	0.0	59.8
51	16.2	0.0	45.5

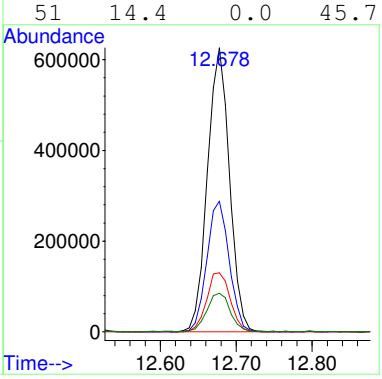


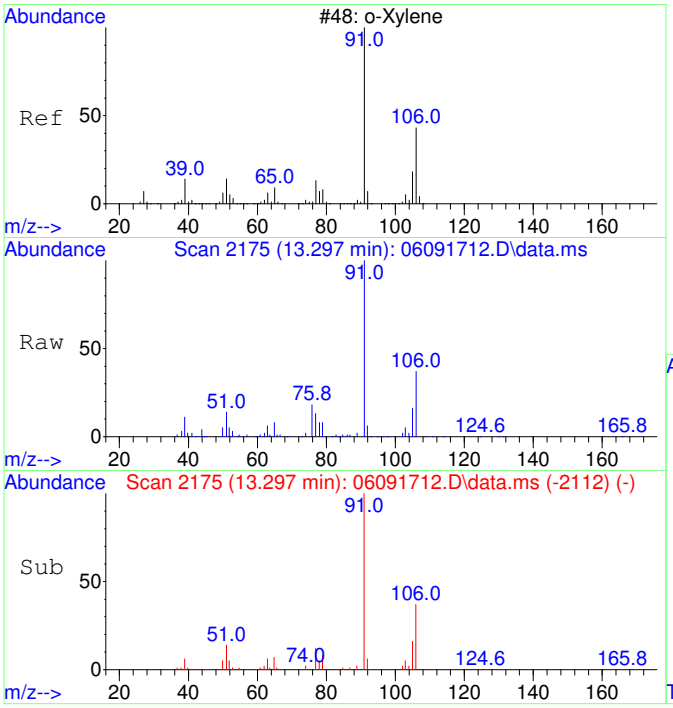


#43
m&p-Xylene SCAN
Concen: 7822.23 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 1266195

Ion	Ratio	Lower	Upper
91	100		
106	46.7	18.5	78.5
105	22.2	0.0	51.3
51	14.4	0.0	45.7

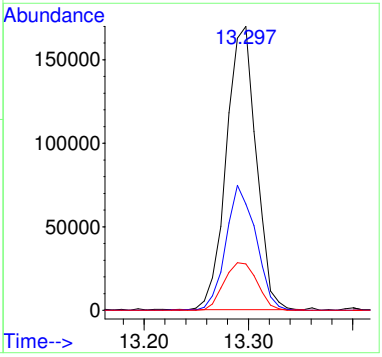


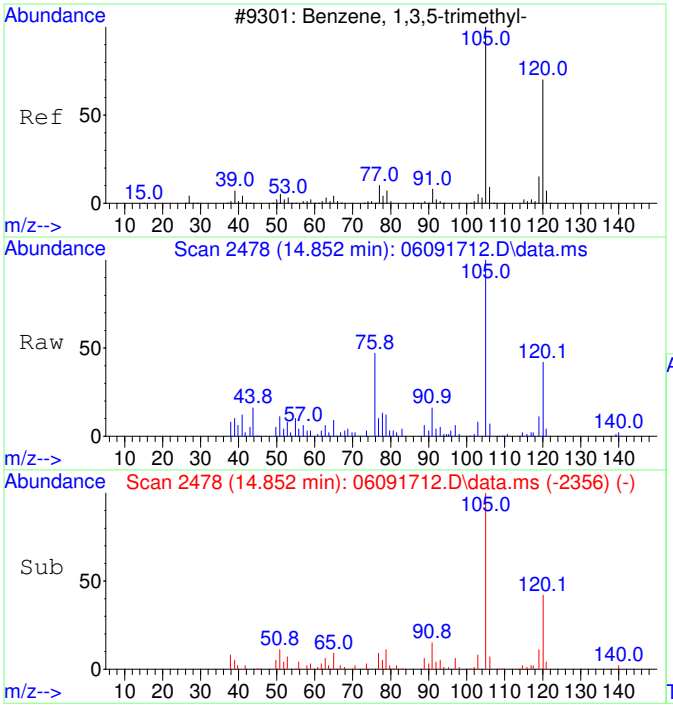


#44
o-Xylene SCAN
Concen: 4022.11 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 335262

Ion	Ratio	Lower	Upper
91	100		
106	44.5	15.5	75.5
105	18.8	0.0	54.1

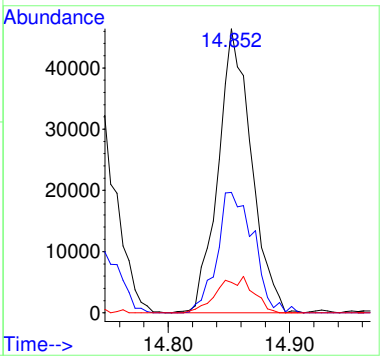


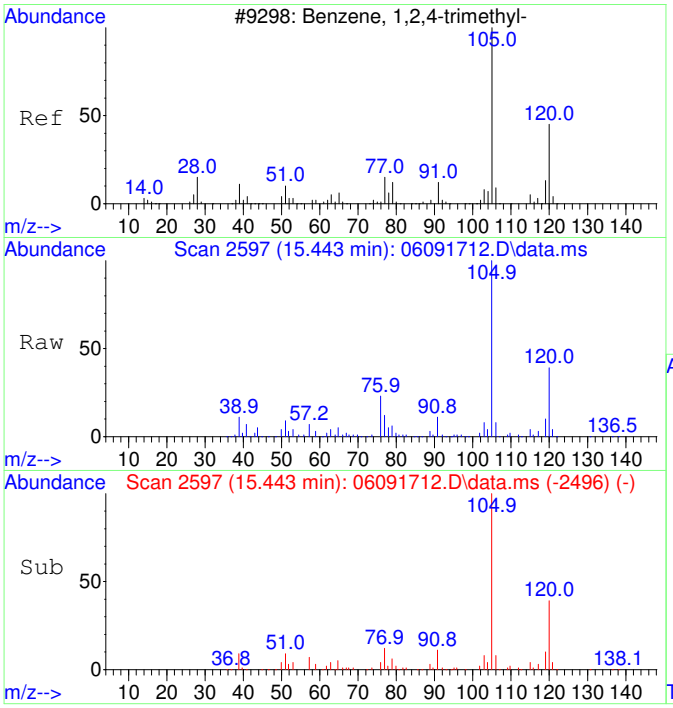


#46
1,3,5-Trimethylbenzene SCAN
Concen: 1118.82 ug/L
RT: 14.852 min Scan# 2478
Delta R.T. -0.005 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:105 Resp: 88462

Ion	Ratio	Lower	Upper
105	100		
120	46.5	17.3	77.3
119	13.8	0.0	42.7

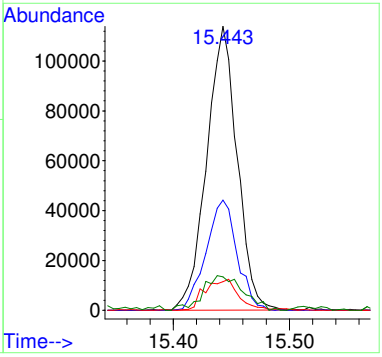




#47
1,2,4-Trimethylbenzene SCAN
Concen: 2526.92 ug/L
RT: 15.443 min Scan# 2597
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:105 Resp: 208206

Ion	Ratio	Lower	Upper
105	100		
120	39.6	12.9	72.9
119	12.3	0.0	40.5
77	16.2	0.0	43.3



Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091712.D
Acq On : 9 Jun 2017 14:54
InstName : AG5975C
Operator : RH
Sample : 1706012-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

M.I. Performed By:
RH at 3:12 pm, Jun 12, 2017

M.I. Approved By:
ZR at 11:52 am, Jun 14, 2017

Quant Time: Jun 09 16:57:27 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

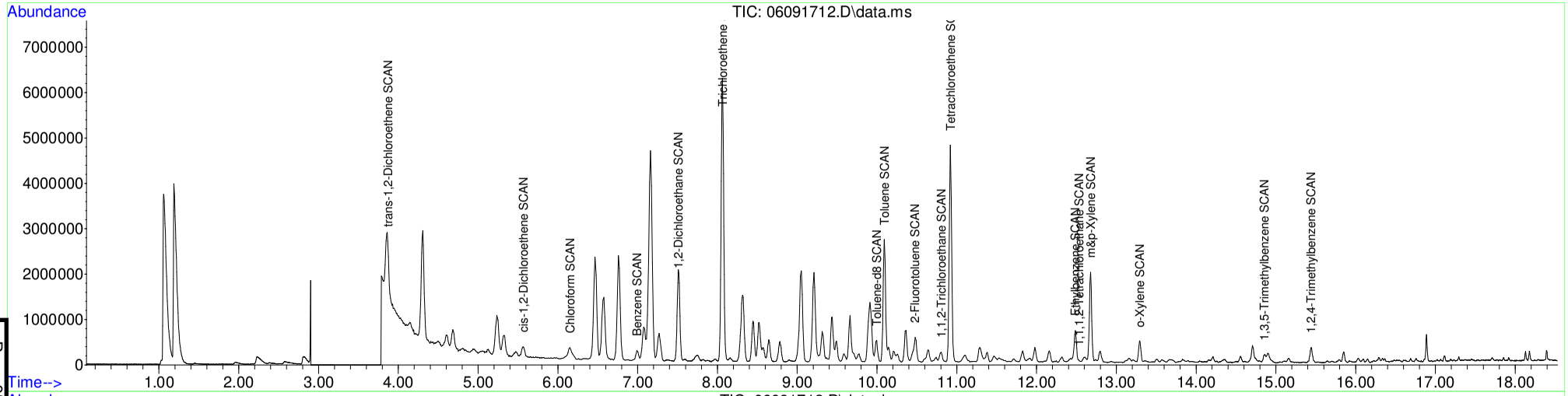
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)	
Internal Standards						
1) 2-Fluorotoluene	10.480	109	693773	5000.00 ug/L	0.00	
System Monitoring Compounds						
12) Toluene-d8	9.987	98	579571	5101.03 ug/L	0.00	
Spiked Amount 5000.000	Range 70 - 130		Recovery = 102.02%			
Target Compounds					Qvalue	
2] 1,1-Dichloroethene	2.711	61	1320m	24.12 ug/L		
3] trans-1,2-Dichloroethene	3.856	61	35730	602.50 ug/L	83	
4] 1,1-Dichloroethane	4.606	63	1738	27.19 ug/L #	1	
5] cis-1,2-Dichloroethene	5.561	61	315874	5169.60 ug/L	100	
6] Chloroform	6.139	83	329635	5575.16 ug/L	94	
8] Carbon tetrachloride	6.638	117	1625	34.69 ug/L	95	
9] Benzene	6.991	78	310453	2254.71 ug/L	98	
10] 1,2-Dichloroethane	7.064	62	1770	34.70 ug/L	85	
11] Trichloroethene	8.063	130	4018062	113468.85 ug/L	100	OC
13] Toluene	10.082	91	3511754	23340.03 ug/L	100	
14] 1,1,2-Trichloroethane	10.795	97	9641	299.65 ug/L #	7	
15] Tetrachloroethene	10.921	166	2990950	77557.32 ug/L	100	OC
18] Ethylbenzene	12.480	91	817066	5045.89 ug/L	100	
19] m&p-Xylene	12.671	91	2088526	16441.43 ug/L	100	
20] o-Xylene	13.291	91	550516	4190.49 ug/L	100	
22] 1,3,5-Trimethylbenzene	14.853	105	158243	1219.94 ug/L	100	
23] 1,2,4-Trimethylbenzene	15.439	105	353948	2661.69 ug/L	99	
25) 2-Fluorotoluene SCAN	10.479	109	390131	4638.06 ug/L	95	
27) trans-1,2-Dichloroethe...	3.868	61	26246	694.90 ug/L	80	
29) cis-1,2-Dichloroethene...	5.566	61	204623	4696.36 ug/L	87	
30) Chloroform SCAN	6.150	83	220297	5607.04 ug/L	92	
33) Benzene SCAN	6.990	78	215675	2422.03 ug/L	96	
34) 1,2-Dichloroethane SCAN	7.503	62	1386	36.07 ug/L	88	
35) Trichloroethene SCAN	8.062	130	2210967	107217.91 ug/L	98	
36) Toluene-d8 SCAN	9.996	98	354733	5109.87 ug/L	98	
37) Toluene SCAN	10.091	91	2146901	23186.88 ug/L	100	
38) 1,1,2-Trichloroethane ...	10.804	97	6664	319.57 ug/L #	30	
39) Tetrachloroethene SCAN	10.920	166	1434109	75550.80 ug/L	96	
41) 1,1,1,2-Tetrachloroeth...	12.527	131	586	33.11 ug/L #	22	
42) Ethylbenzene SCAN	12.487	91	502355	4845.46 ug/L	99	
43) m&p-Xylene SCAN	12.678	91	1266195	7822.23 ug/L	97	
44) o-Xylene SCAN	13.297	91	335262	4022.11 ug/L	95	
46) 1,3,5-Trimethylbenzene...	14.852	105	88462	1118.82 ug/L	98	
47) 1,2,4-Trimethylbenzene...	15.443	105	208206	2526.92 ug/L	94	

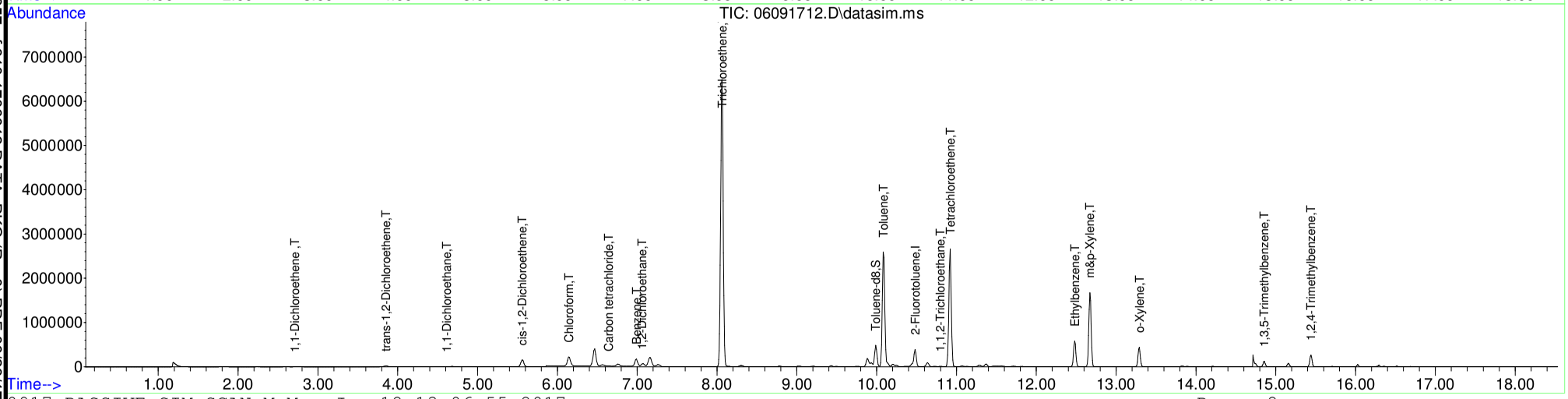
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091712.D
Acq On : 9 Jun 2017 14:54
InstName : AG5975C
Operator : RH
Sample : 1706012-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 09 16:57:27 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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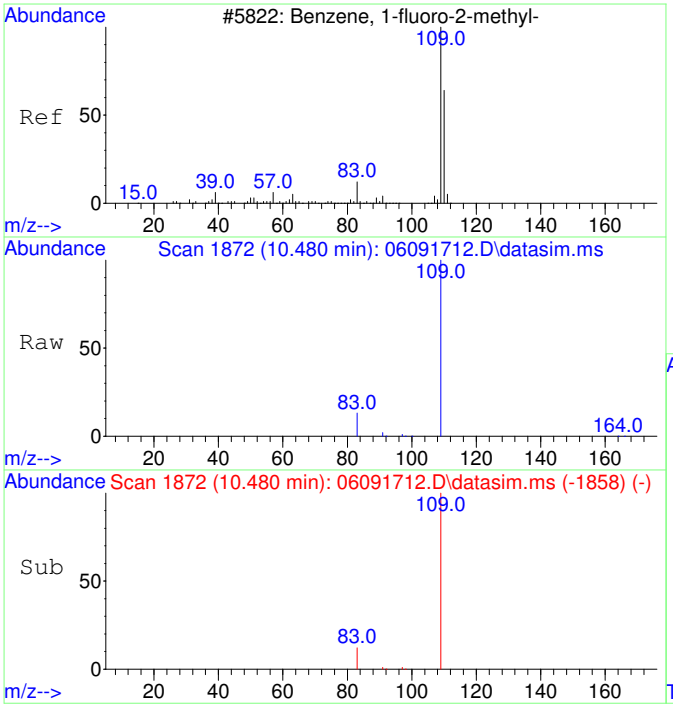
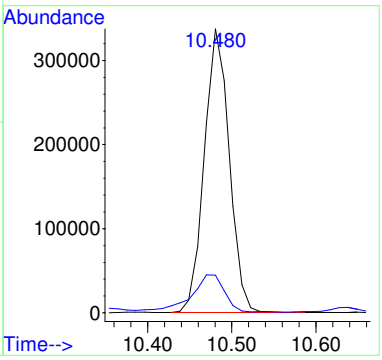
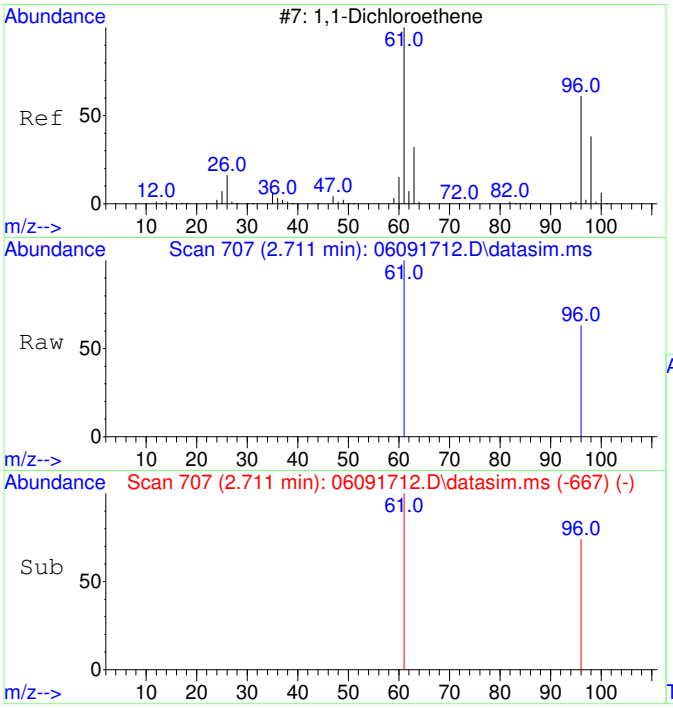


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:109 Resp: 693773

Ion	Ratio	Lower	Upper
109	100		
83	15.6	0.0	44.4

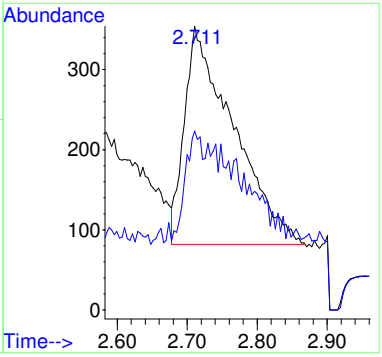


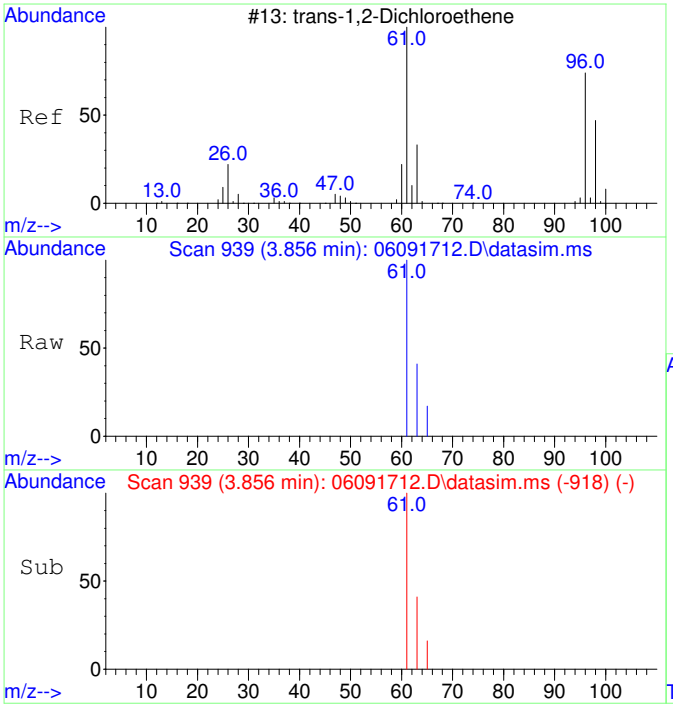


#2
1,1-Dichloroethene
Concen: 24.12 ug/L m
RT: 2.711 min Scan# 707
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 61 Resp: 1320

Ion	Ratio	Lower	Upper
61	100		
96	83.1	21.8	81.8#

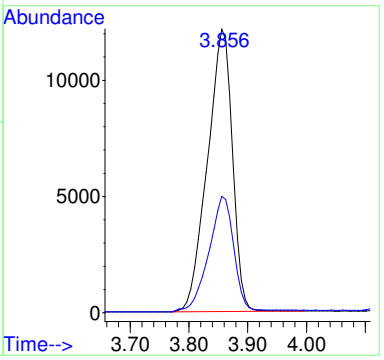


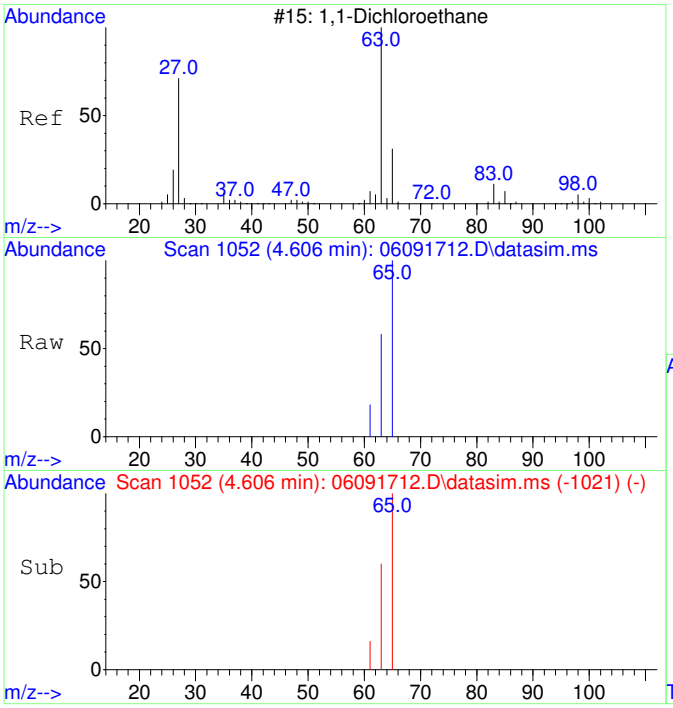


#3
trans-1,2-Dichloroethene
Concen: 602.50 ug/L
RT: 3.856 min Scan# 939
Delta R.T. -0.013 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 61 Resp: 35730

Ion	Ratio	Lower	Upper
61	100		
63	40.5	1.0	61.0

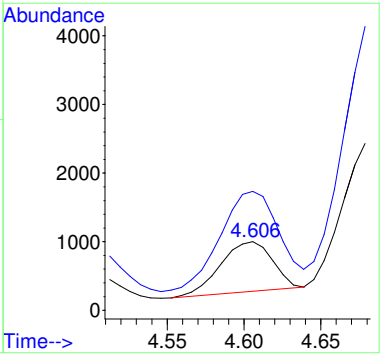


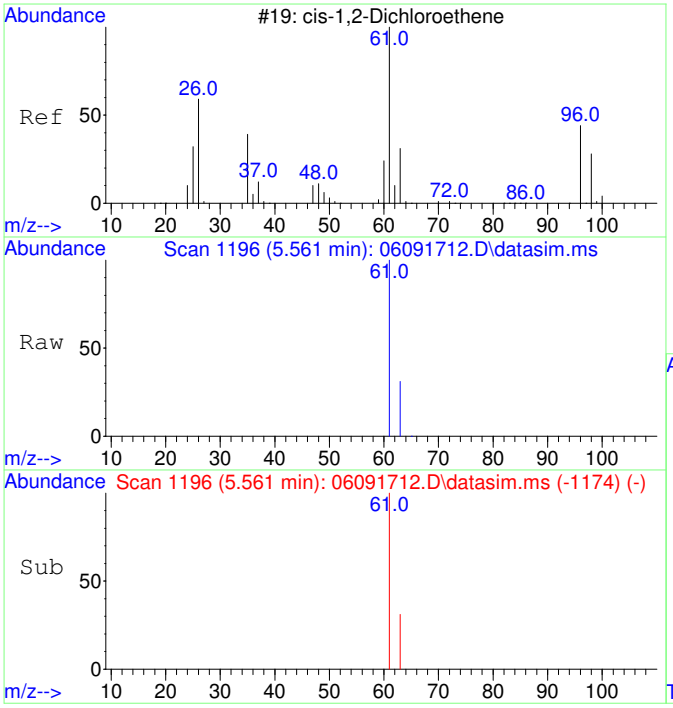


#4
1,1-Dichloroethane
Concen: 27.19 ug/L
RT: 4.606 min Scan# 1052
Delta R.T. 0.053 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 63 Resp: 1738

Ion	Ratio	Lower	Upper
63	100		
65	178.0	0.4	60.4#

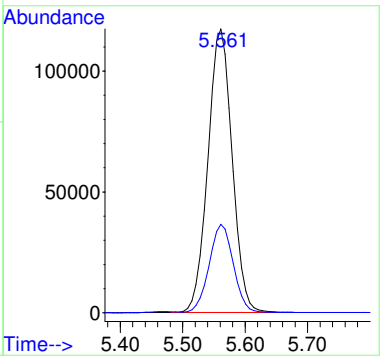


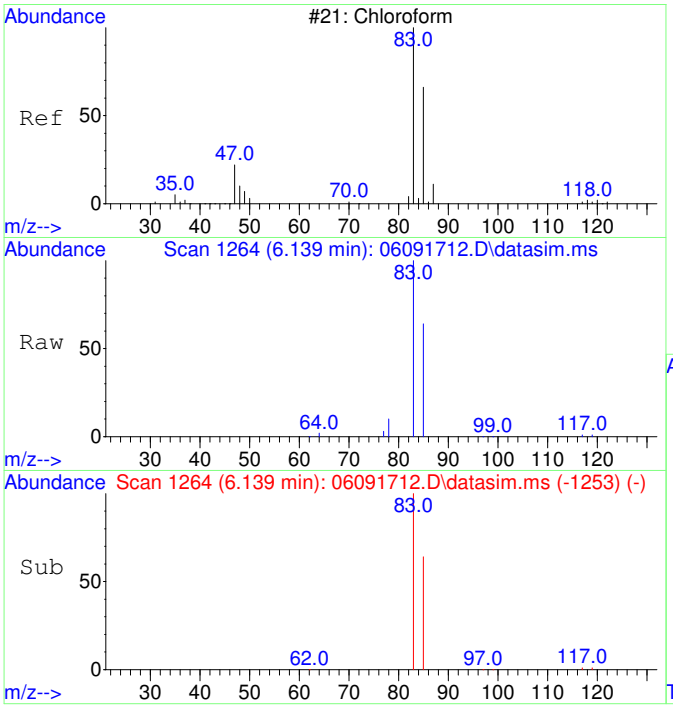


#5
cis-1,2-Dichloroethene
Concen: 5169.60 ug/L
RT: 5.561 min Scan# 1196
Delta R.T. -0.007 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 61 Resp: 315874

Ion	Ratio	Lower	Upper
61	100		
63	30.7	0.9	60.9

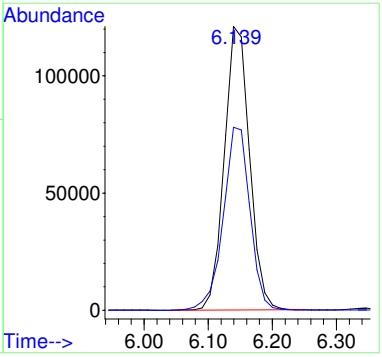


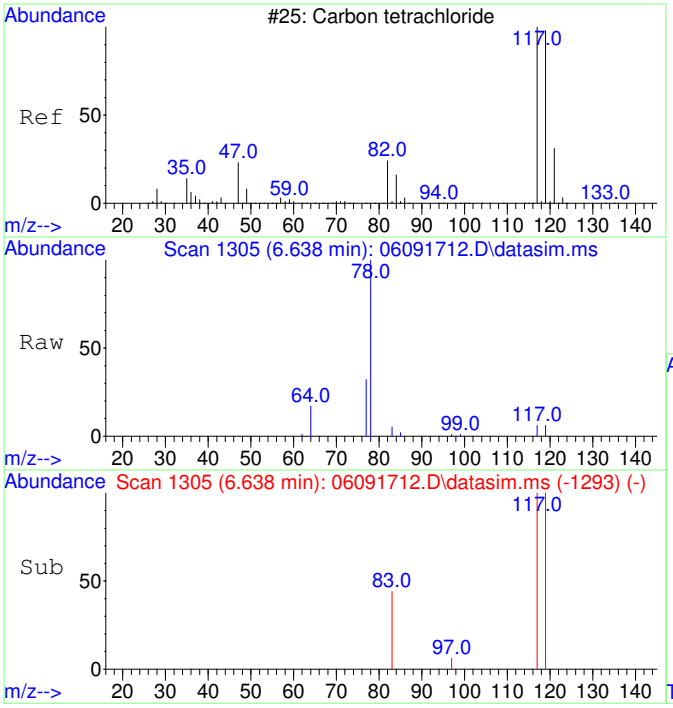


#6
Chloroform
Concen: 5575.16 ug/L
RT: 6.139 min Scan# 1264
Delta R.T. -0.012 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 83 Resp: 329635

Ion	Ratio	Lower	Upper
83	100		
85	68.0	33.7	93.7

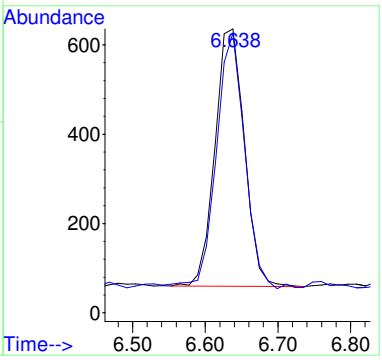


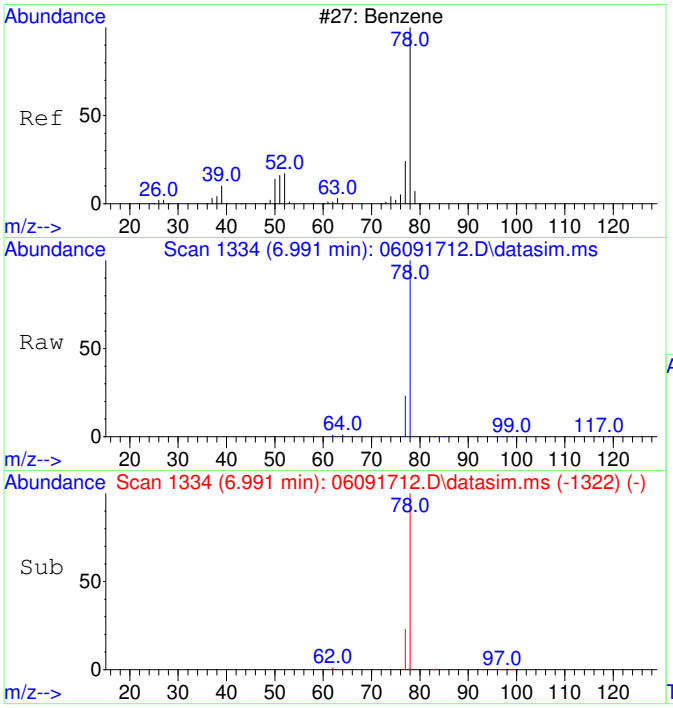


#8
Carbon tetrachloride
Concen: 34.69 ug/L
RT: 6.638 min Scan# 1305
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:117 Resp: 1625

Ion	Ratio	Lower	Upper
117	100		
119	91.1	65.5	125.5

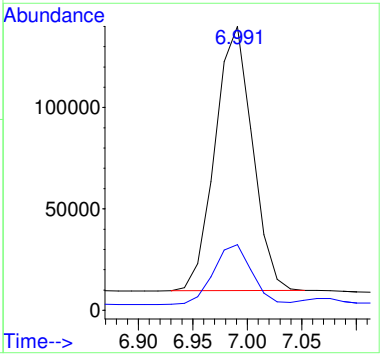


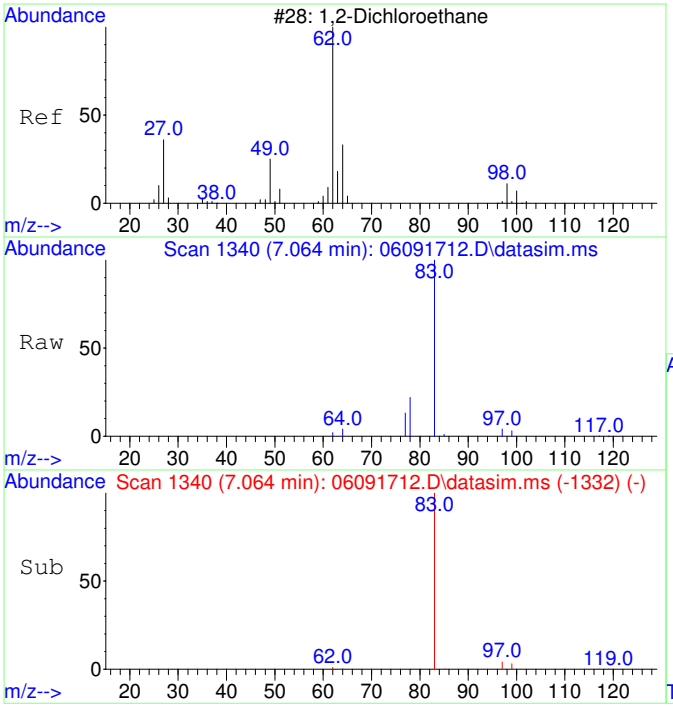


#9
Benzene
Concen: 2254.71 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 78 Resp: 310453

Ion	Ratio	Lower	Upper
78	100		
77	22.3	0.0	53.0

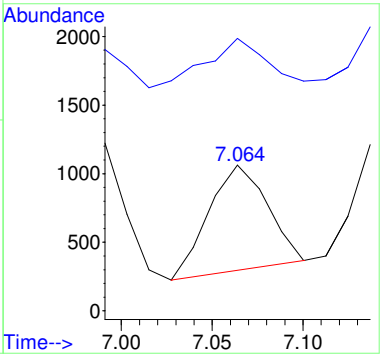


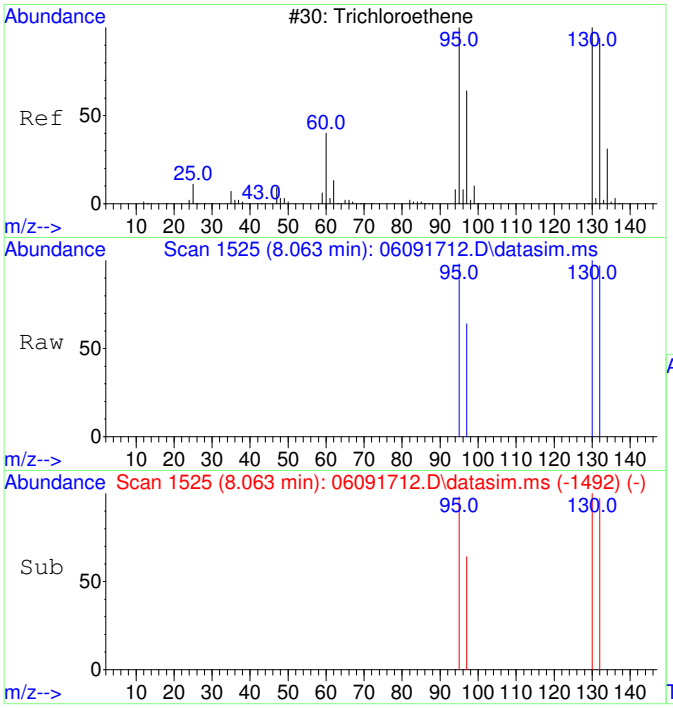


#10
1,2-Dichloroethane
Concen: 34.70 ug/L
RT: 7.064 min Scan# 1340
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 62 Resp: 1770

Ion	Ratio	Lower	Upper
62	100		
64	41.0	2.6	62.6

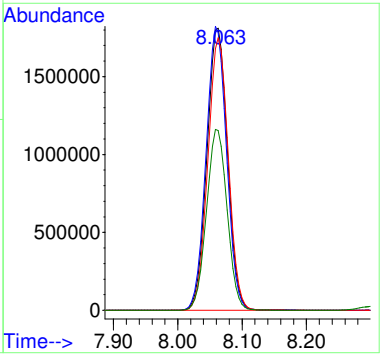


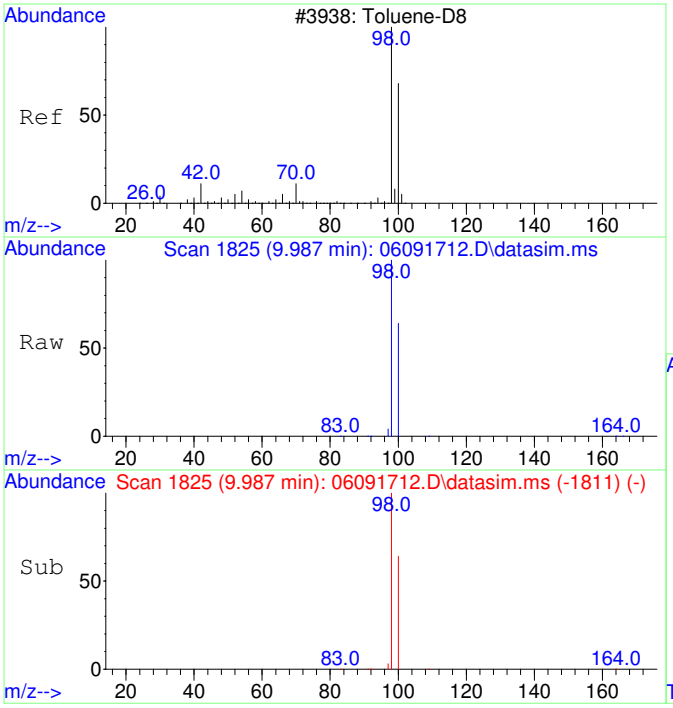


#11
Trichloroethene
Concen: 113468.85 ug/L
RT: 8.063 min Scan# 1525
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:130 Resp: 4018062

Ion	Ratio	Lower	Upper
130	100		
95	100.1	69.8	129.8
132	95.9	76.4	116.4
97	64.2	44.3	84.3

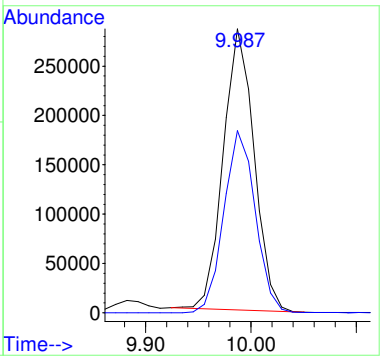


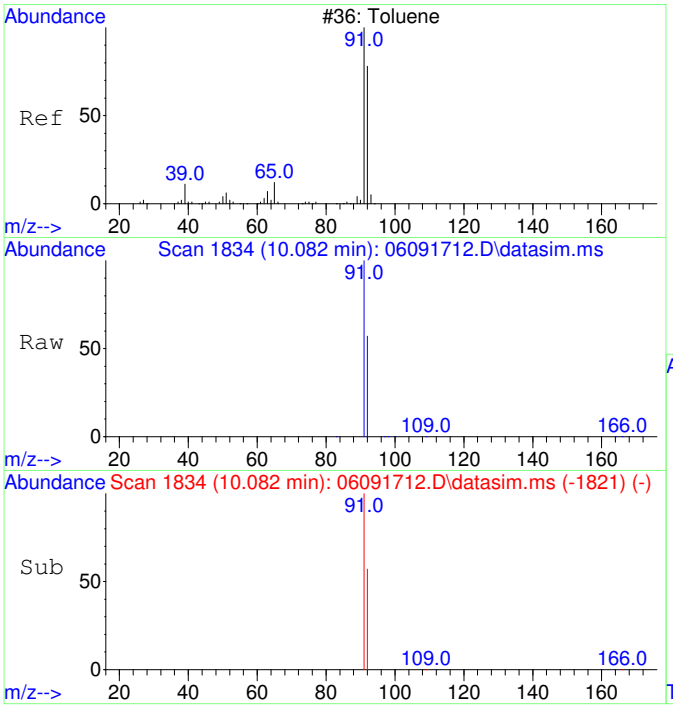


#12
Toluene-d8
Concen: 5101.03 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 98 Resp: 579571

Ion	Ratio	Lower	Upper
98	100		
100	65.9	34.2	94.2

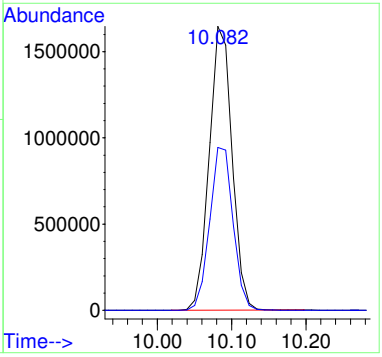


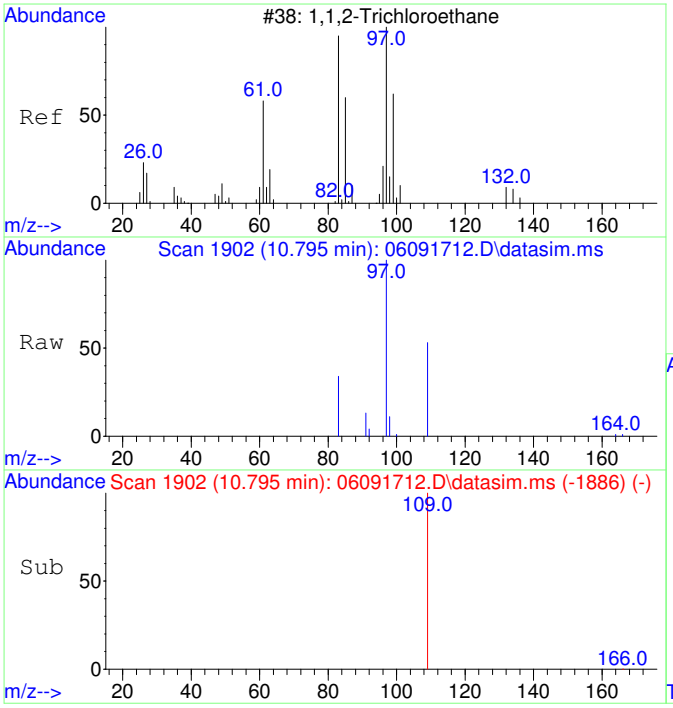


#13
Toluene
Concen: 23340.03 ug/L
RT: 10.082 min Scan# 1834
Delta R.T. -0.011 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 3511754

Ion	Ratio	Lower	Upper
91	100		
92	58.4	28.4	88.4

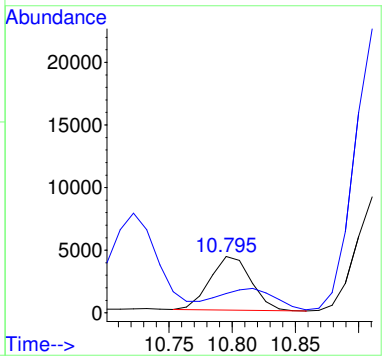


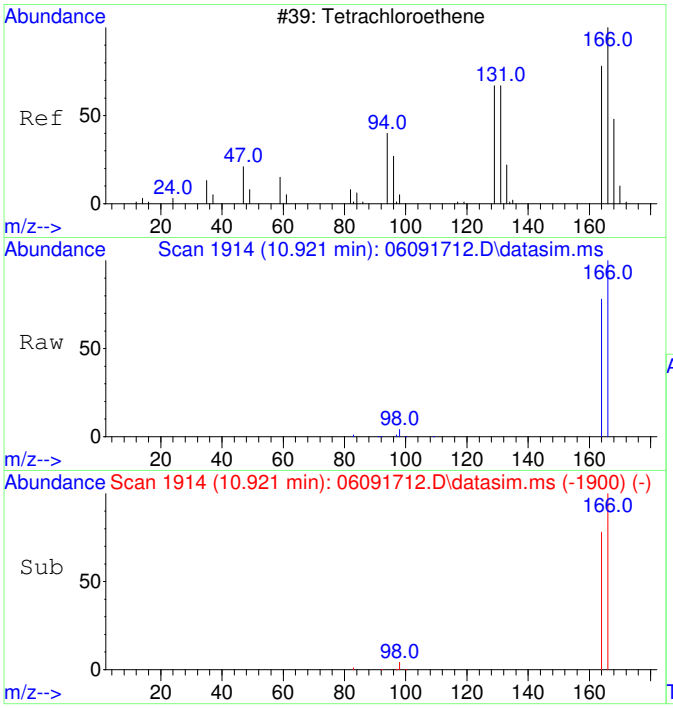


#14
1,1,2-Trichloroethane
Concen: 299.65 ug/L
RT: 10.795 min Scan# 1902
Delta R.T. 0.021 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 97 Resp: 9641

Ion	Ratio	Lower	Upper
97	100		
83	0.0	54.5	114.5#

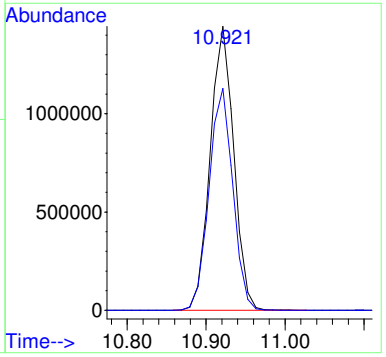


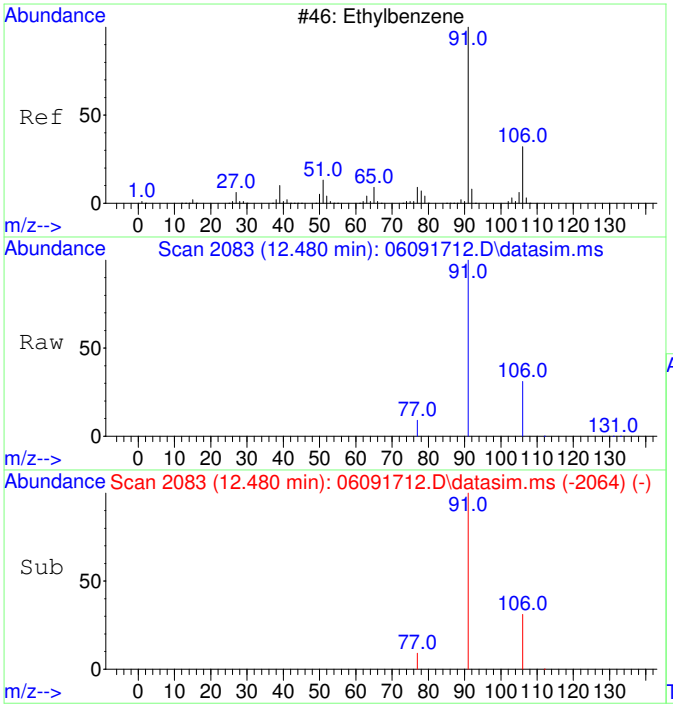


#15
Tetrachloroethene
Concen: 77557.32 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:166 Resp: 2990950

Ion	Ratio	Lower	Upper
166	100		
164	78.4	48.1	108.1

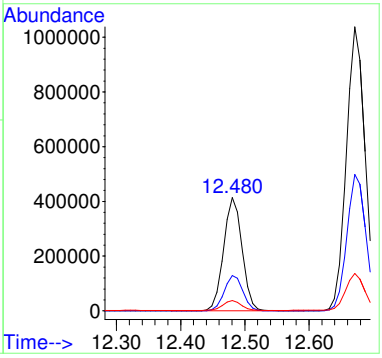


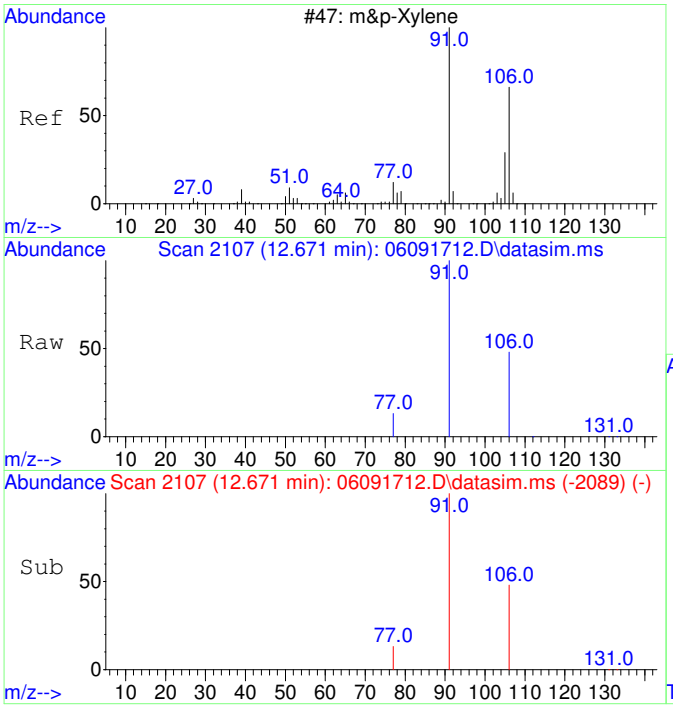


#18
Ethylbenzene
Concen: 5045.89 ug/L
RT: 12.480 min Scan# 2083
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 817066

Ion	Ratio	Lower	Upper
91	100		
106	31.4	1.2	61.2
77	8.6	0.0	38.6

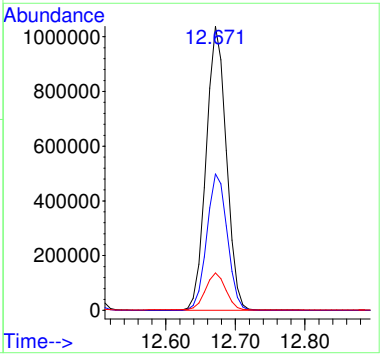


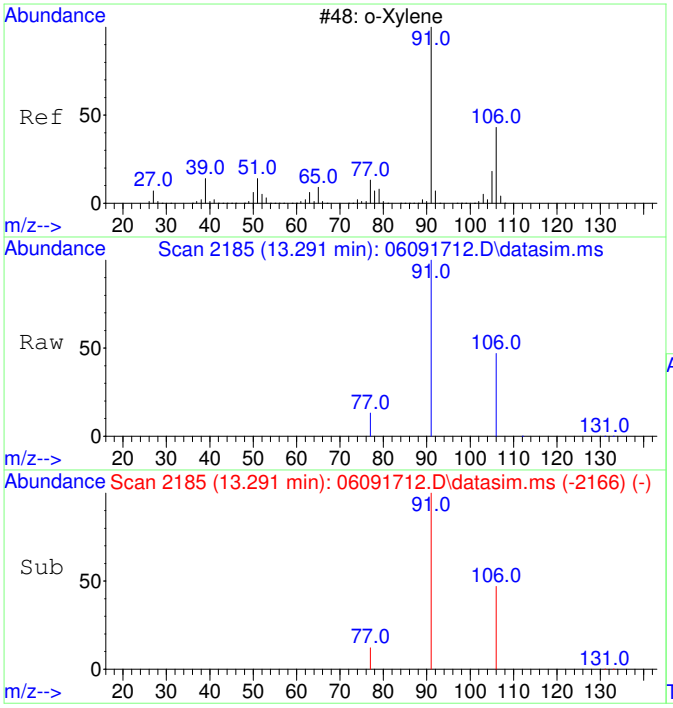


#19
m&p-Xylene
Concen: 16441.43 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 2088526

Ion	Ratio	Lower	Upper
91	100		
106	48.5	18.4	78.4
77	12.9	0.0	43.1

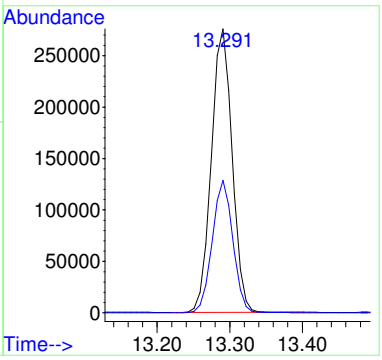


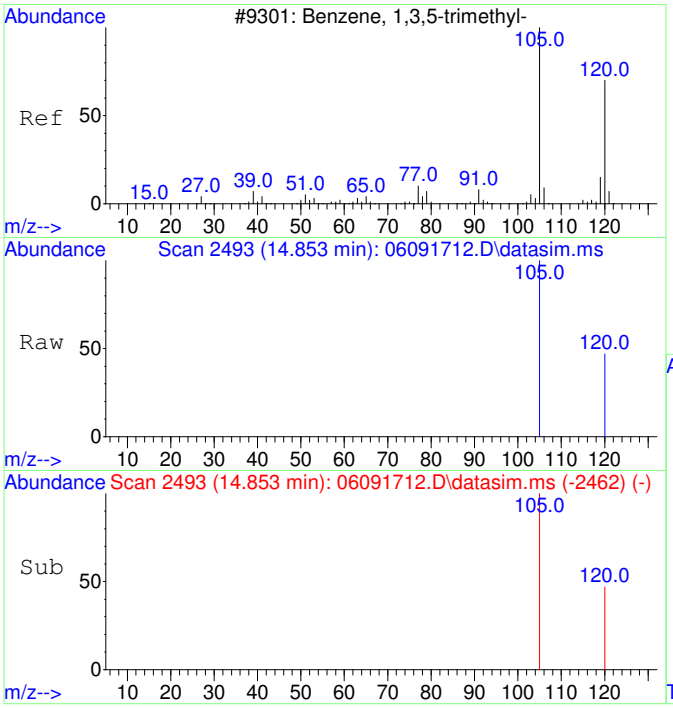


#20
o-Xylene
Concen: 4190.49 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 550516

Ion	Ratio	Lower	Upper
91	100		
106	45.8	16.0	76.0

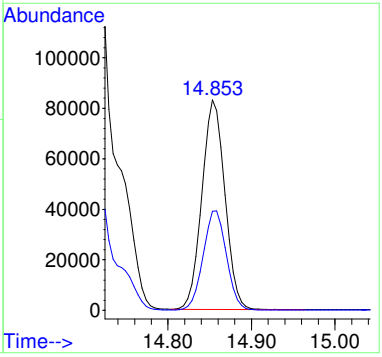


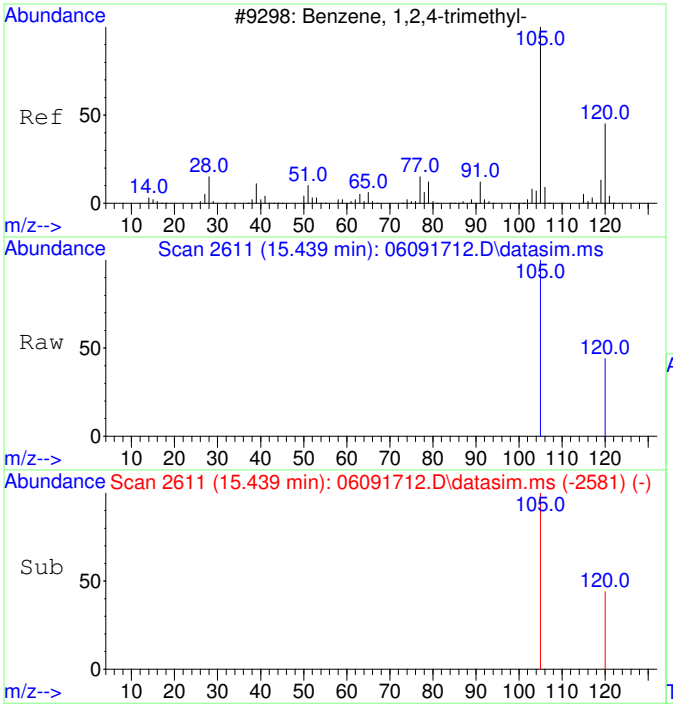


#22
1,3,5-Trimethylbenzene
Concen: 1219.94 ug/L
RT: 14.853 min Scan# 2493
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:105 Resp: 158243

Ion	Ratio	Lower	Upper
105	100		
120	47.8	18.0	78.0

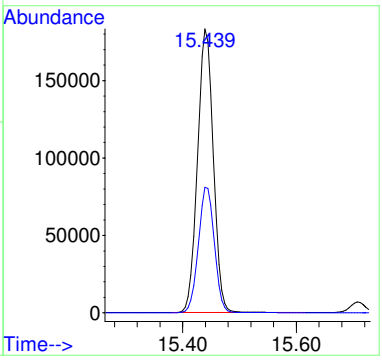


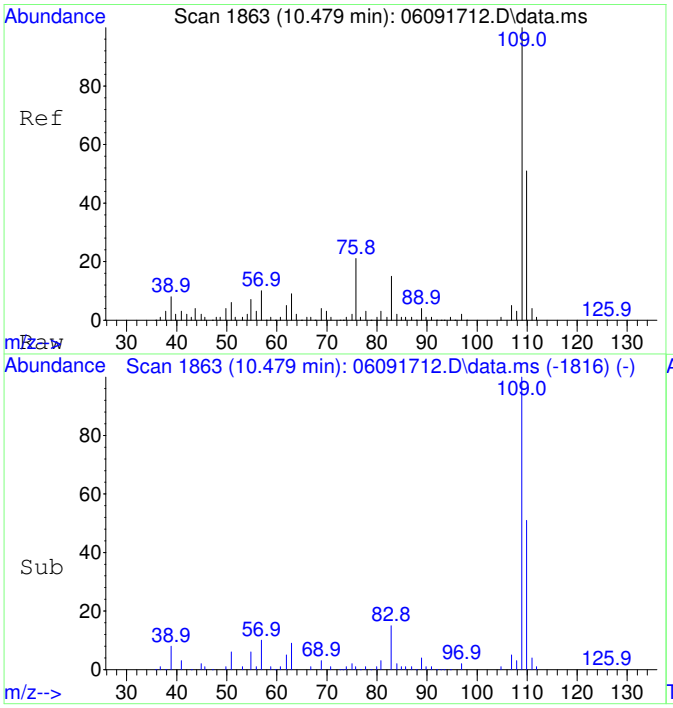


#23
1,2,4-Trimethylbenzene
Concen: 2661.69 ug/L
RT: 15.439 min Scan# 2611
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:105 Resp: 353948

Ion	Ratio	Lower	Upper
105	100		
120	44.8	14.4	74.4

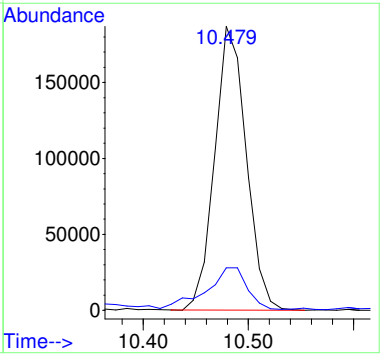


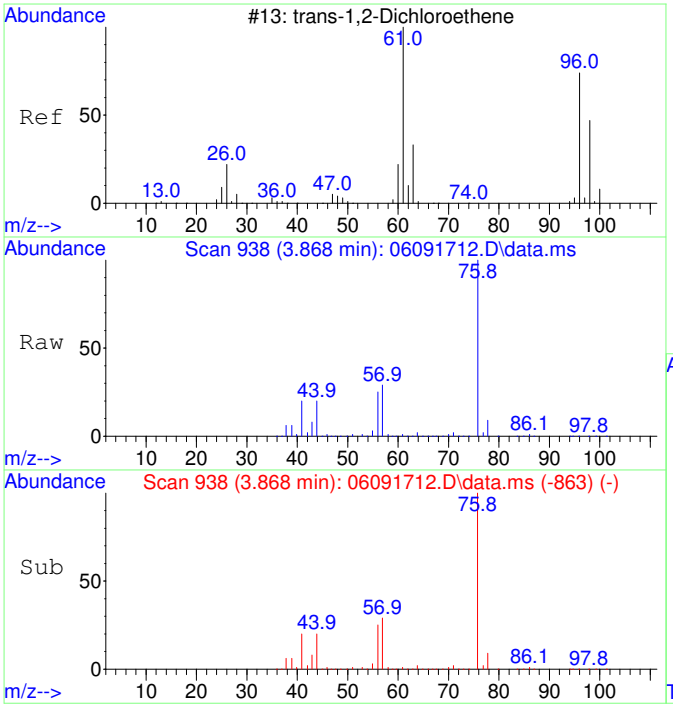


#25
2-Fluorotoluene SCAN
Concen: 4638.06 ug/L
RT: 10.479 min Scan# 1863
Delta R.T. -0.011 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:109 Resp: 390131

Ion	Ratio	Lower	Upper
109	100		
83	18.2	0.0	46.1

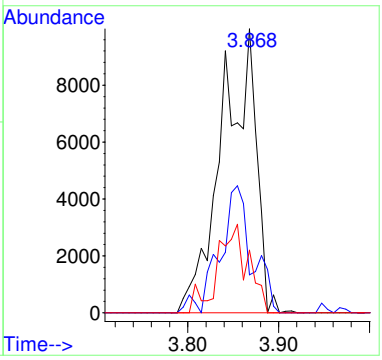


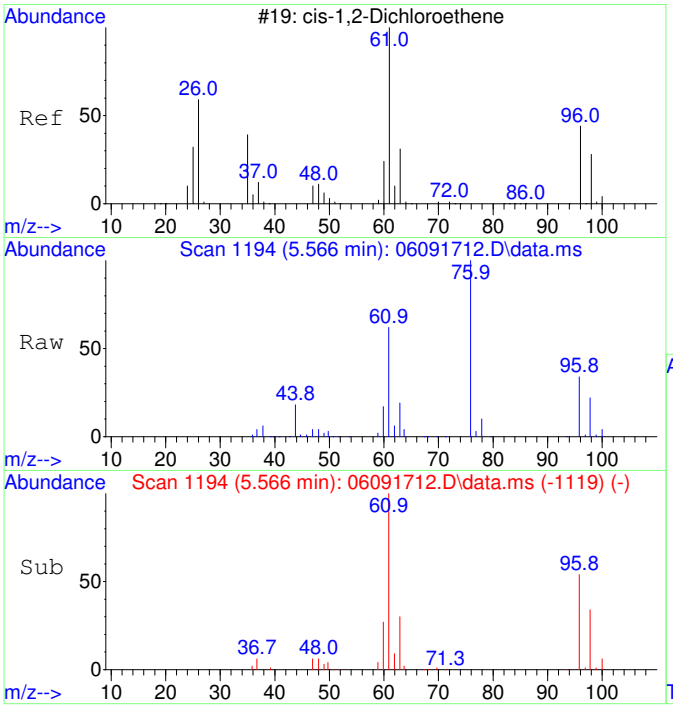


#27
trans-1,2-Dichloroethene SCAN
Concen: 694.90 ug/L
RT: 3.868 min Scan# 938
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 61 Resp: 26246

Ion	Ratio	Lower	Upper
61	100		
96	41.9	26.1	86.1
98	22.0	4.4	64.4

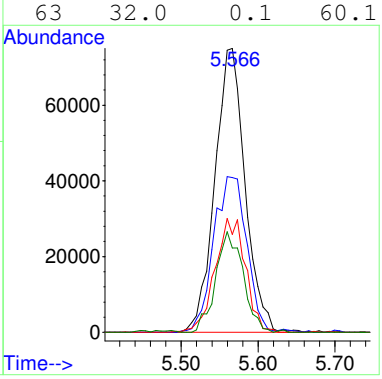


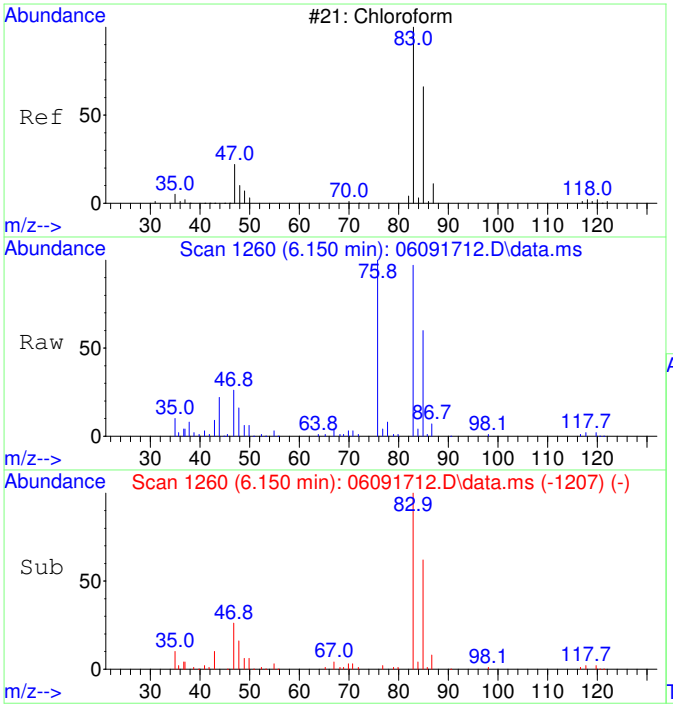


#29
cis-1,2-Dichloroethene SCAN
Concen: 4696.36 ug/L
RT: 5.566 min Scan# 1194
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 61 Resp: 204623

Ion	Ratio	Lower	Upper
61	100		
96	59.0	17.5	77.5
98	40.2	1.9	61.9
63	32.0	0.1	60.1

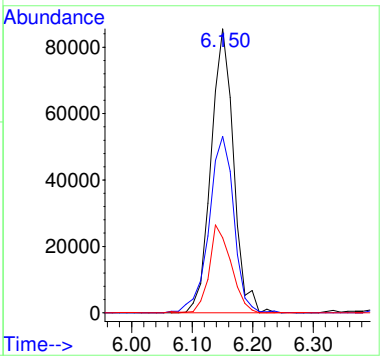


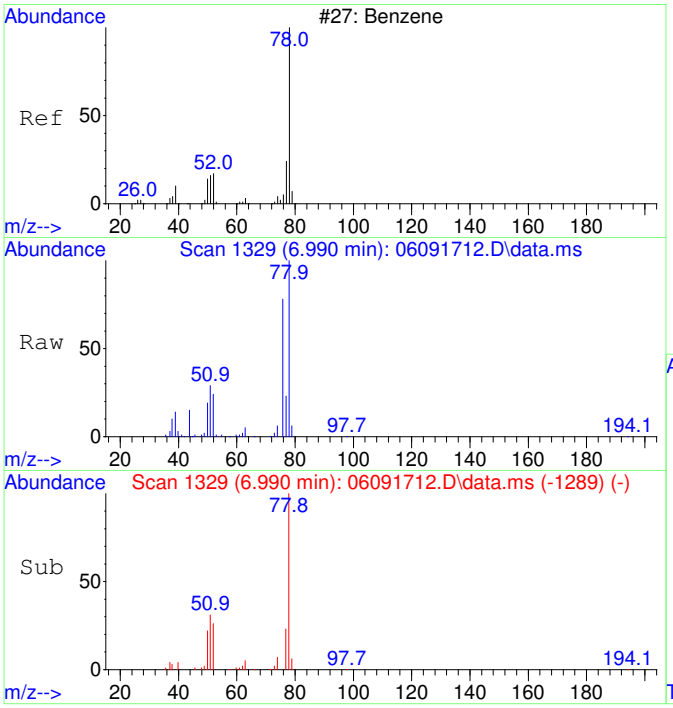


#30
Chloroform SCAN
Concen: 5607.04 ug/L
RT: 6.150 min Scan# 1260
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 83 Resp: 220297

Ion	Ratio	Lower	Upper
83	100		
85	68.7	31.2	91.2
47	30.2	3.2	63.2

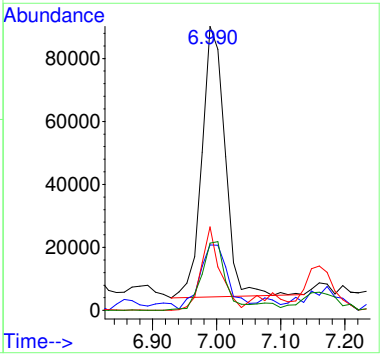


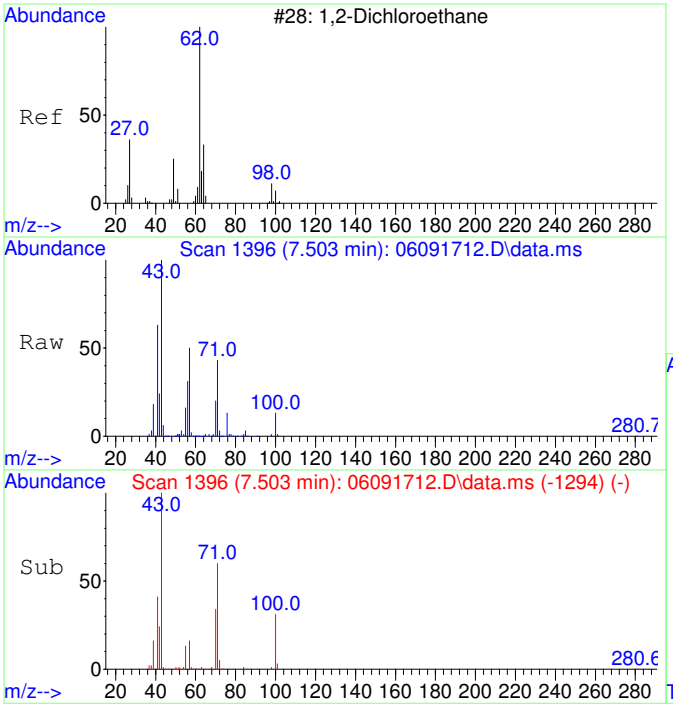


#33
Benzene SCAN
Concen: 2422.03 ug/L
RT: 6.990 min Scan# 1329
Delta R.T. -0.012 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 78 Resp: 215675

Ion	Ratio	Lower	Upper
78	100		
77	26.0	0.0	55.2
51	23.9	0.0	52.4
52	26.5	0.0	53.3

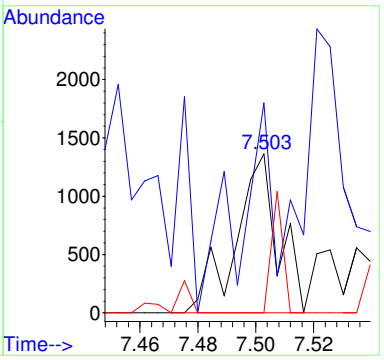


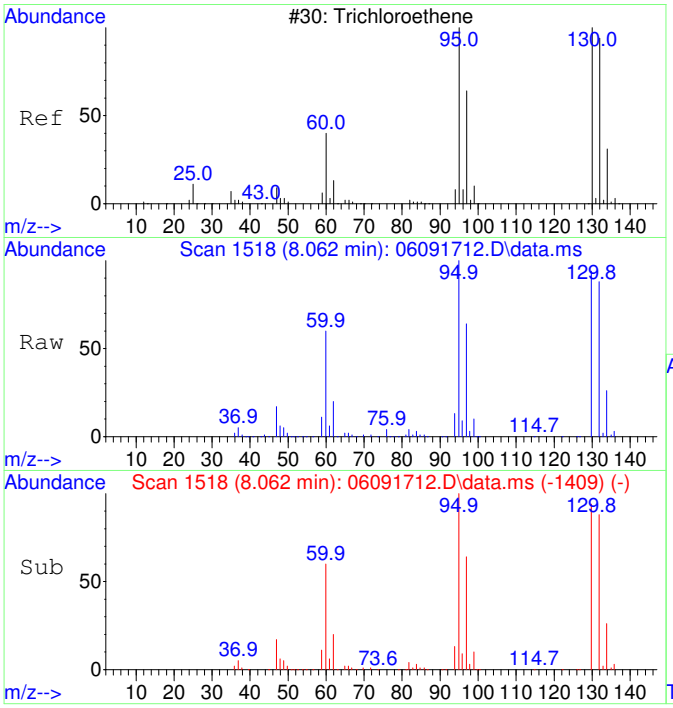


#34
1,2-Dichloroethane SCAN
Concen: 36.07 ug/L
RT: 7.503 min Scan# 1396
Delta R.T. 0.440 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 62 Resp: 1386

Ion	Ratio	Lower	Upper
62	100		
64	45.7	7.4	67.4
49	20.6	0.0	54.8

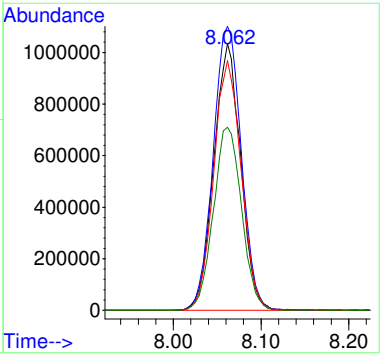


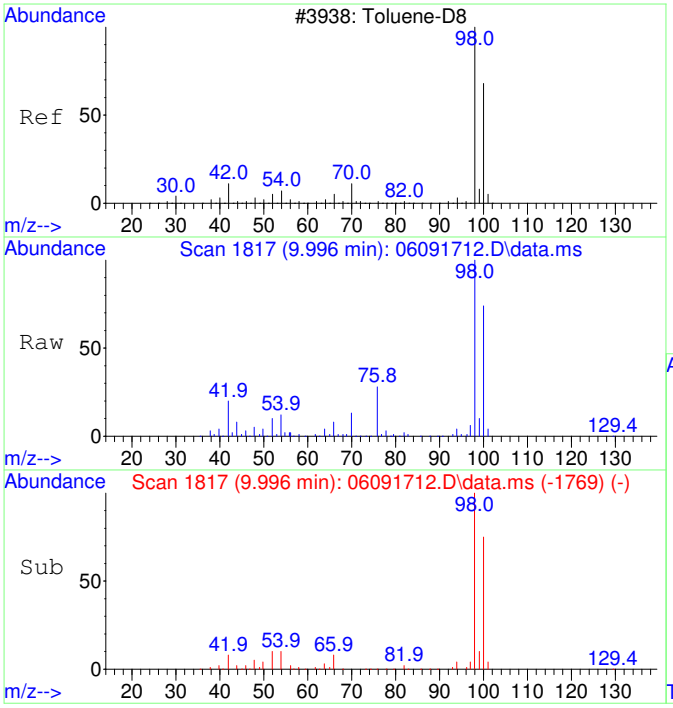


#35
Trichloroethene SCAN
Concen: 107217.91 ug/L
RT: 8.062 min Scan# 1518
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:130 Resp: 2210967

Ion	Ratio	Lower	Upper
130	100		
95	111.3	76.1	136.1
132	95.5	65.6	125.6
97	71.9	41.8	101.8

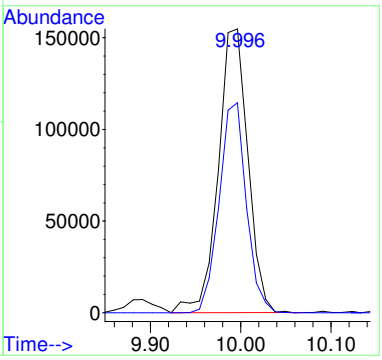


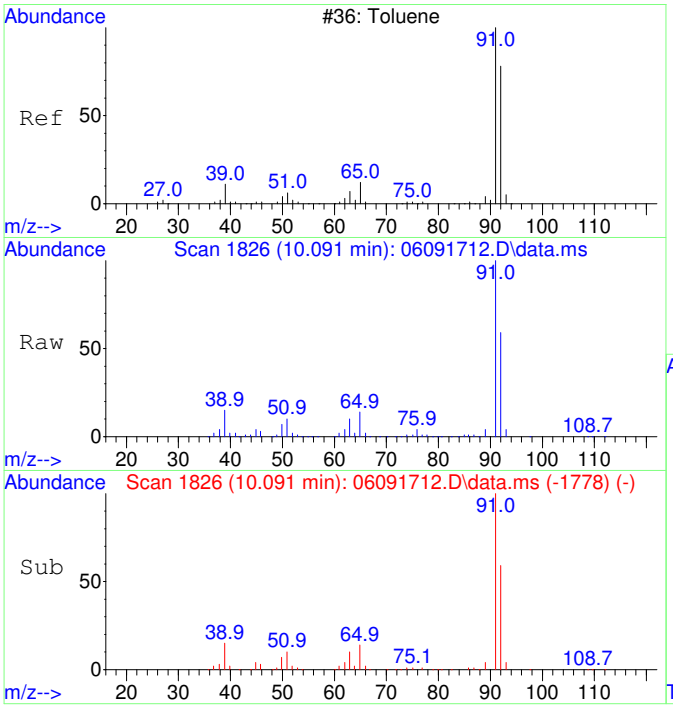


#36
Toluene-d8 SCAN
Concen: 5109.87 ug/L
RT: 9.996 min Scan# 1817
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 98 Resp: 354733

Ion	Ratio	Lower	Upper
98	100		
100	67.8	36.2	96.2

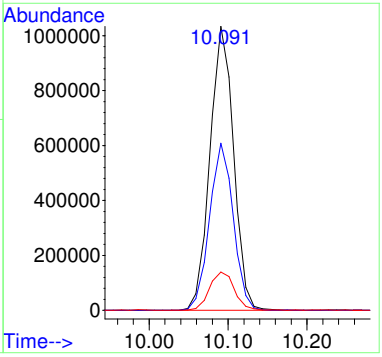


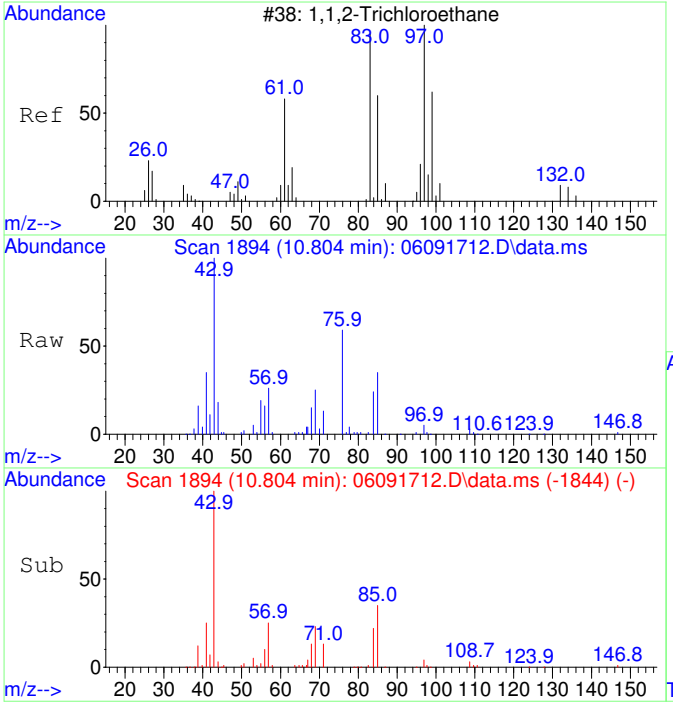


#37
Toluene SCAN
Concen: 23186.88 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 2146901

Ion	Ratio	Lower	Upper
91	100		
92	59.2	29.2	89.2
65	14.3	0.0	44.3

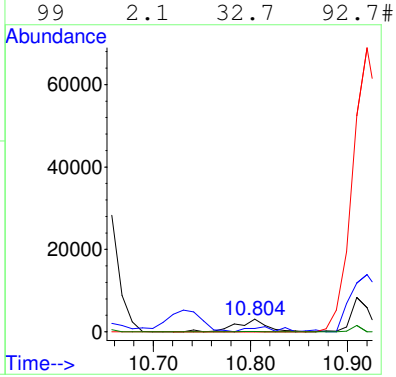


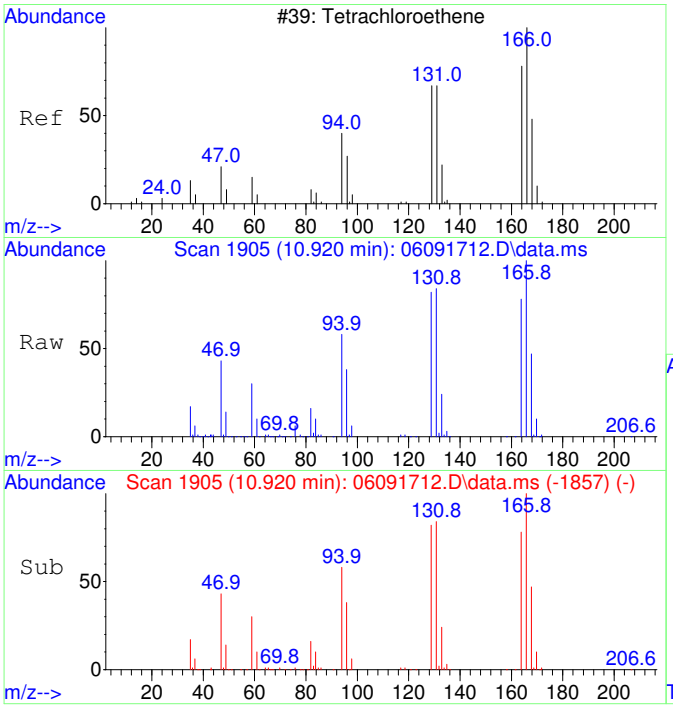


#38
1,1,2-Trichloroethane SCAN
Concen: 319.57 ug/L
RT: 10.804 min Scan# 1894
Delta R.T. 0.021 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 97 Resp: 6664

Ion	Ratio	Lower	Upper
97	100		
83	44.7	57.8	117.8#
61	0.0	48.6	108.6#
99	2.1	32.7	92.7#

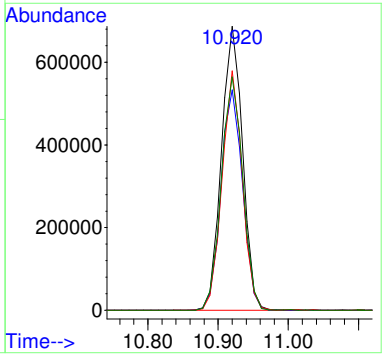


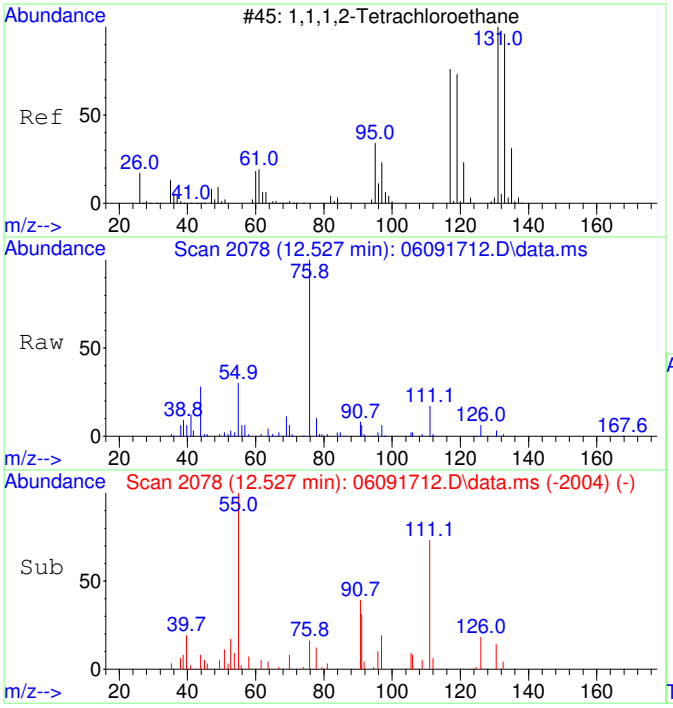


#39
Tetrachloroethene SCAN
Concen: 75550.80 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:166 Resp: 1434109

Ion	Ratio	Lower	Upper
166	100		
164	79.1	45.7	105.7
131	80.6	44.8	104.8
129	83.6	55.5	115.5

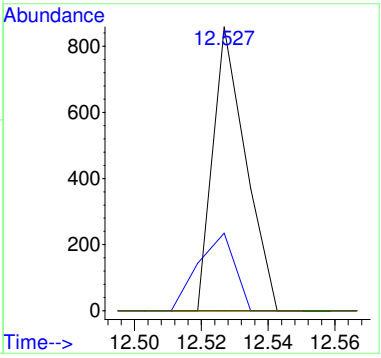


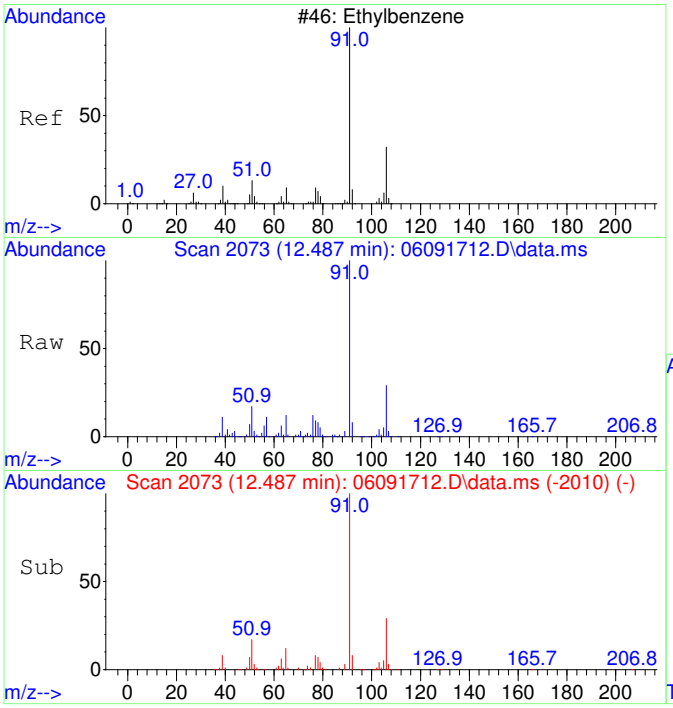


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 33.11 ug/L
RT: 12.527 min Scan# 2078
Delta R.T. 0.087 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:131 Resp: 586

Ion	Ratio	Lower	Upper
131	100		
133	30.9	63.5	123.5#
119	0.0	38.0	98.0#
117	0.0	43.8	103.8#

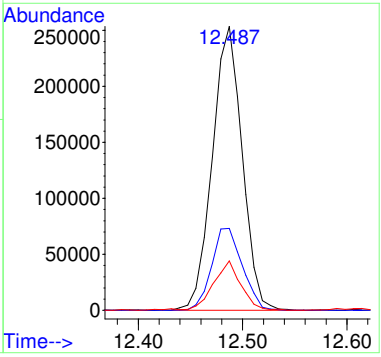


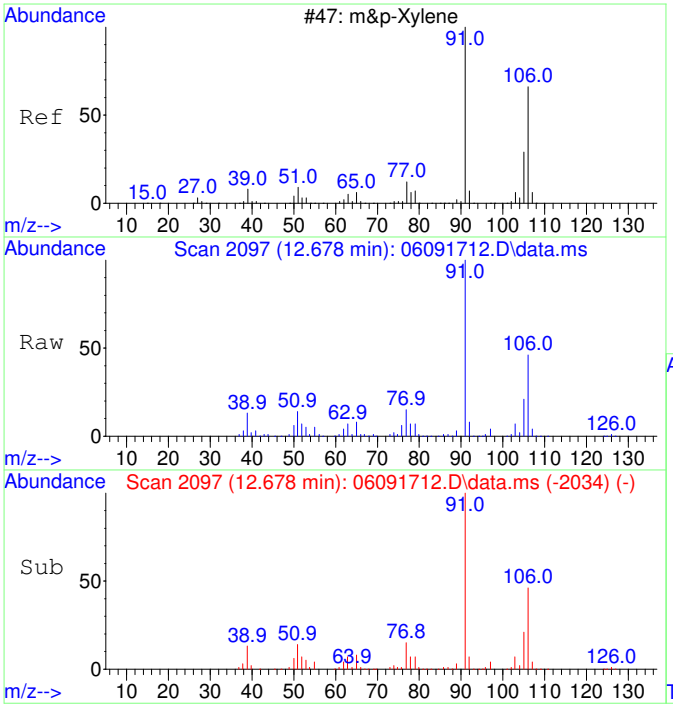


#42
Ethylbenzene SCAN
Concen: 4845.46 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 502355

Ion	Ratio	Lower	Upper
91	100		
106	29.8	0.0	59.8
51	16.2	0.0	45.5

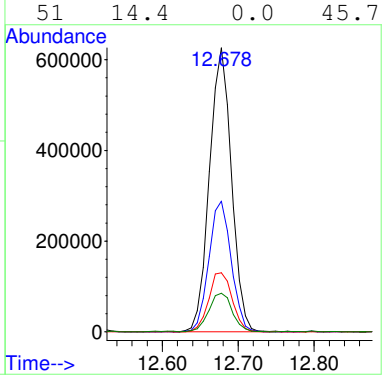


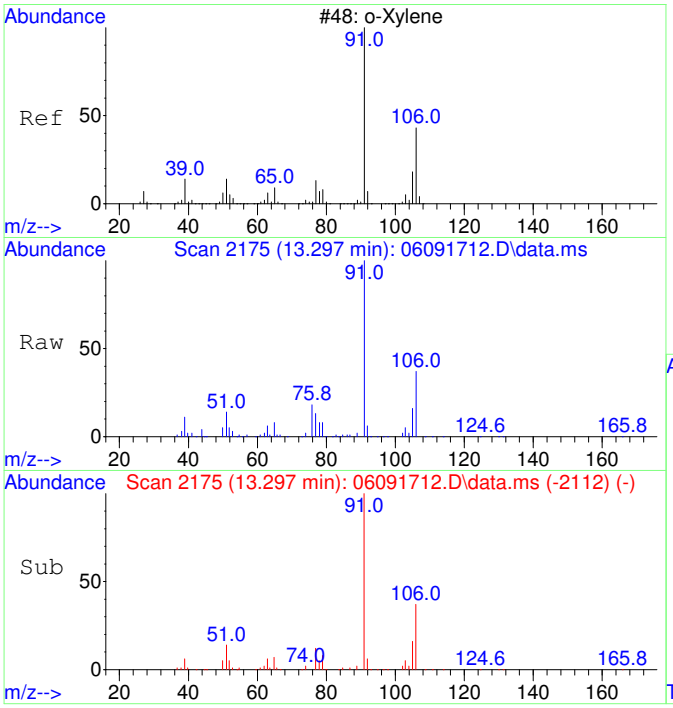


#43
m&p-Xylene SCAN
Concen: 7822.23 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 1266195

Ion	Ratio	Lower	Upper
91	100		
106	46.7	18.5	78.5
105	22.2	0.0	51.3
51	14.4	0.0	45.7

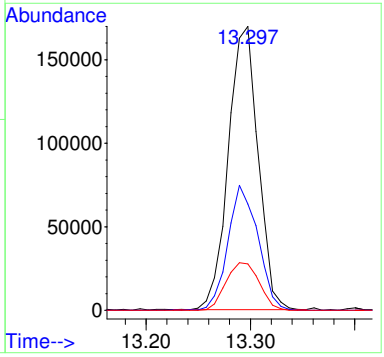


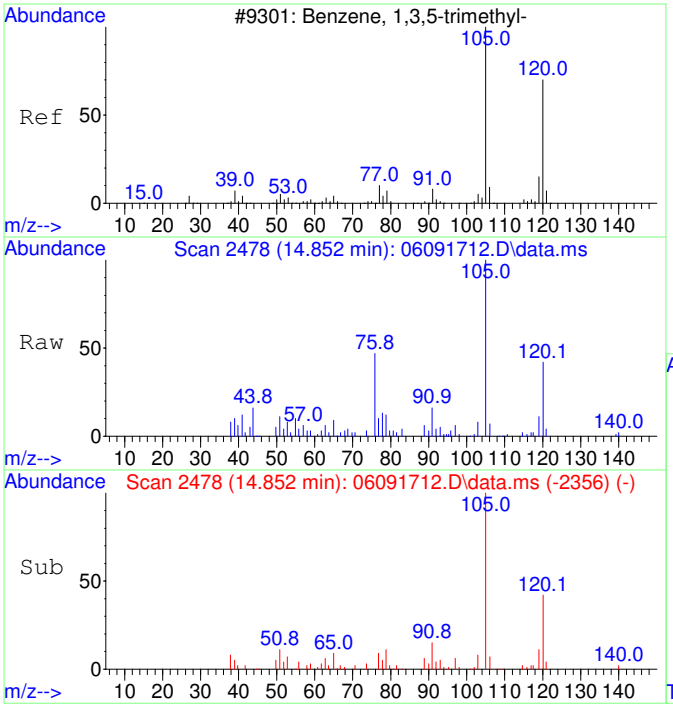


#44
o-Xylene SCAN
Concen: 4022.11 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion: 91 Resp: 335262

Ion	Ratio	Lower	Upper
91	100		
106	44.5	15.5	75.5
105	18.8	0.0	54.1

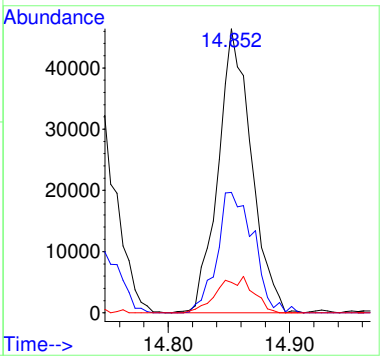


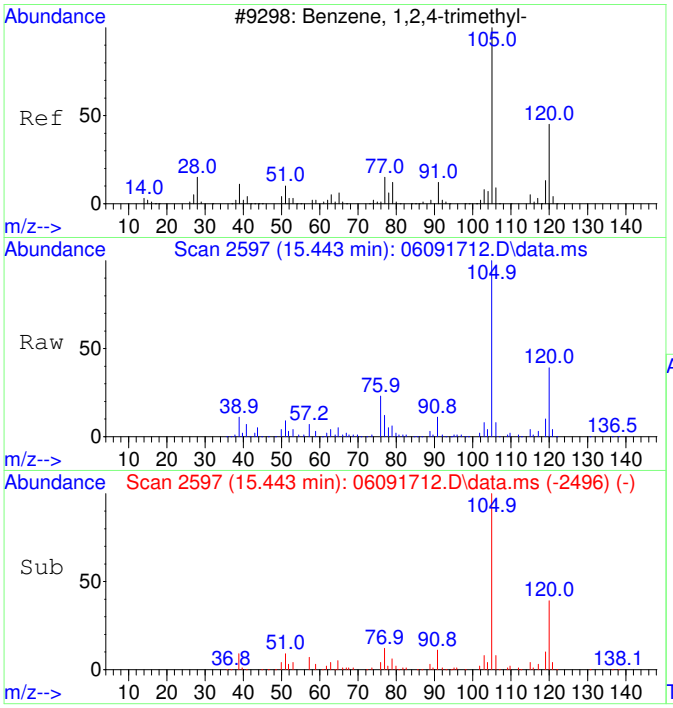


#46
1,3,5-Trimethylbenzene SCAN
Concen: 1118.82 ug/L
RT: 14.852 min Scan# 2478
Delta R.T. -0.005 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:105 Resp: 88462

Ion	Ratio	Lower	Upper
105	100		
120	46.5	17.3	77.3
119	13.8	0.0	42.7

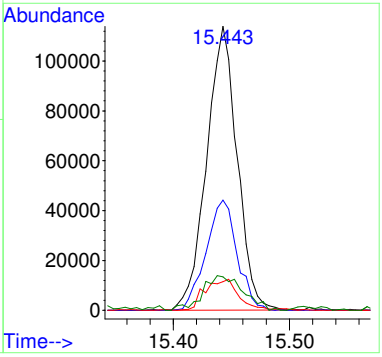




#47
1,2,4-Trimethylbenzene SCAN
Concen: 2526.92 ug/L
RT: 15.443 min Scan# 2597
Delta R.T. -0.000 min
Lab File: 06091712.D
Acq: 9 Jun 2017 14:54

Tgt Ion:105 Resp: 208206

Ion	Ratio	Lower	Upper
105	100		
120	39.6	12.9	72.9
119	12.3	0.0	40.5
77	16.2	0.0	43.3



1706012-05

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091713.D
Acq On : 9 Jun 2017 15:18
InstName : AG5975C
Operator : RH
Sample : 1706012-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 09 16:57:33 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

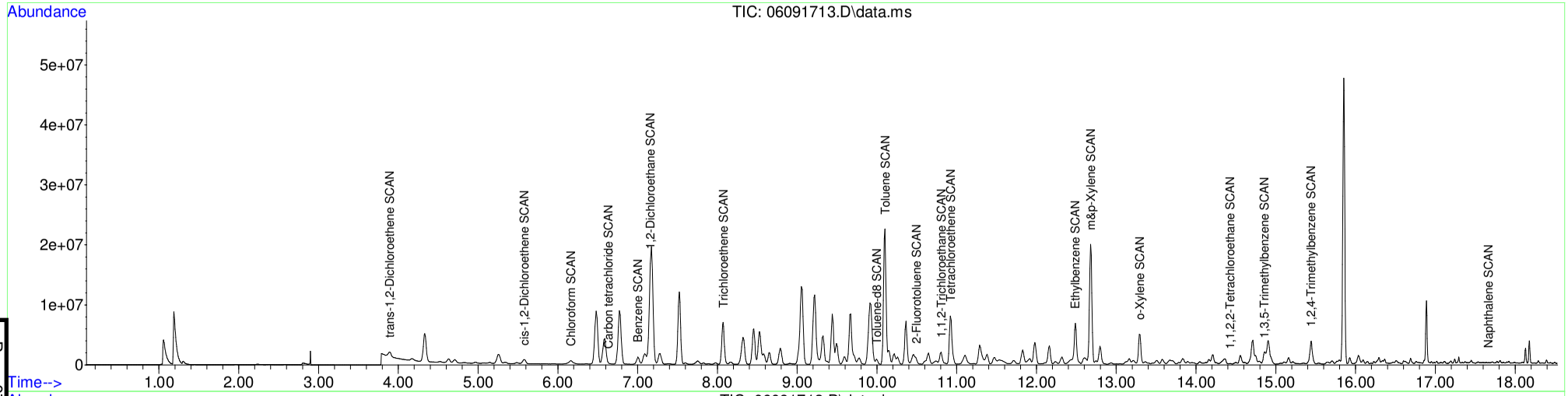
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.481	109	1161275	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.998	98	917352	4823.58 ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery = 96.47%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.711	61	3383	36.94 ug/L	97
3] trans-1,2-Dichloroethene	3.889	61	77979	785.57 ug/L	97
5] cis-1,2-Dichloroethene	5.574	61	999709	9774.61 ug/L	100
6] Chloroform	6.164	83	779694	7878.26 ug/L	97
8] Carbon tetrachloride	6.650	117	3370	42.98 ug/L	100
9] Benzene	7.003	78	1792864	7779.01 ug/L	99
10] 1,2-Dichloroethane	7.076	62	3830	44.85 ug/L	94
11] Trichloroethene	8.068	130	4317147	72834.84 ug/L	100
13] Toluene	10.082	91	22908581	90961.56 ug/L	79
14] 1,1,2-Trichloroethane	10.806	97	77554	1440.05 ug/L #	46
15] Tetrachloroethene	10.921	166	4989997	77302.98 ug/L	100
16] Chlorobenzene	12.282	112	5446	34.04 ug/L #	21
18] Ethylbenzene	12.481	91	7971079	29408.97 ug/L	100
19] m&p-Xylene	12.671	91	19708397	92690.09 ug/L	96
20] o-Xylene	13.291	91	5637305	25635.93 ug/L	100
22] 1,3,5-Trimethylbenzene	14.855	105	1694379	7803.78 ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	3967694	17825.36 ug/L	100
24] Naphthalene	17.662	128	7971	24.18 ug/L	92
25) 2-Fluorotoluene SCAN	10.490	109	654886	4651.29 ug/L	73
27) trans-1,2-Dichloroethe...	3.895	61	51987	822.31 ug/L #	64
29) cis-1,2-Dichloroethene...	5.573	61	674898	9253.95 ug/L	89
30) Chloroform SCAN	6.163	83	479922	7297.57 ug/L	90
32) Carbon tetrachloride SCAN	6.637	117	2218	44.52 ug/L #	76
33) Benzene SCAN	7.002	78	1160743	7787.51 ug/L	97
34) 1,2-Dichloroethane SCAN	7.160	62	16926	263.18 ug/L	72
35) Trichloroethene SCAN	8.071	130	2405136	69679.82 ug/L	98
36) Toluene-d8 SCAN	9.996	98	563994	4853.61 ug/L	95
37) Toluene SCAN	10.101	91	18469551	119170.56 ug/L	100
38) 1,1,2-Trichloroethane ...	10.805	97	53275	1526.28 ug/L #	11
39) Tetrachloroethene SCAN	10.920	166	2470302	77748.01 ug/L	96
42) Ethylbenzene SCAN	12.487	91	4926852	28390.71 ug/L	98
43) m&p-Xylene SCAN	12.678	91	13103673	48362.11 ug/L	98
44) o-Xylene SCAN	13.290	91	3460871	24804.88 ug/L	95
45) 1,1,2,2-Tetrachloroeth...	14.427	83	2040	32.32 ug/L #	1
46) 1,3,5-Trimethylbenzene...	14.853	105	988283	7467.39 ug/L	97
47) 1,2,4-Trimethylbenzene...	15.444	105	2318226	16808.77 ug/L	98
48) Naphthalene SCAN	17.665	128	5560	29.23 ug/L	75

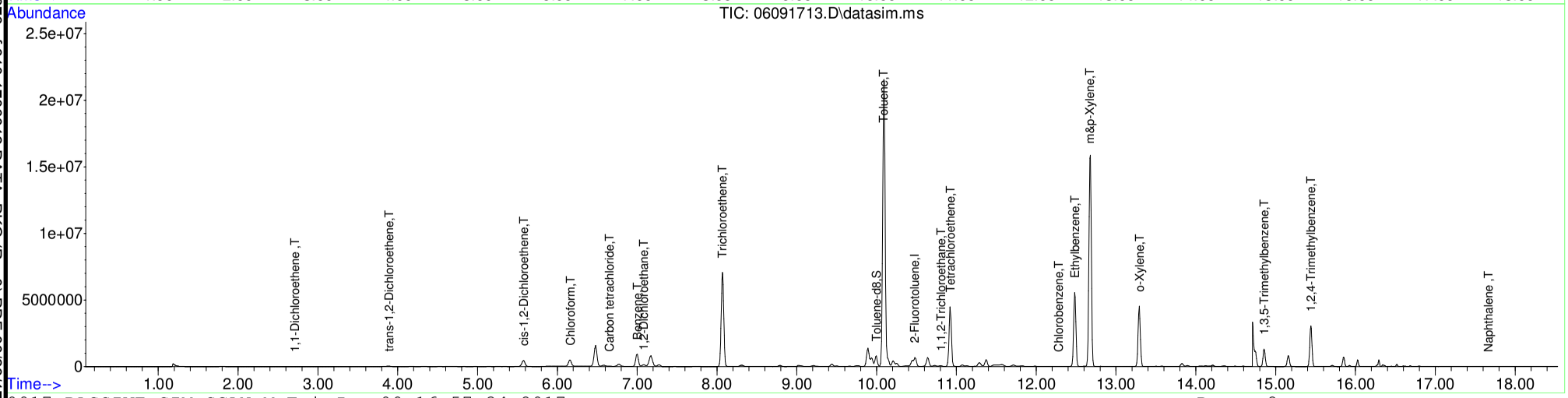
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091713.D
Acq On : 9 Jun 2017 15:18
InstName : AG5975C
Operator : RH
Sample : 1706012-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 09 16:57:33 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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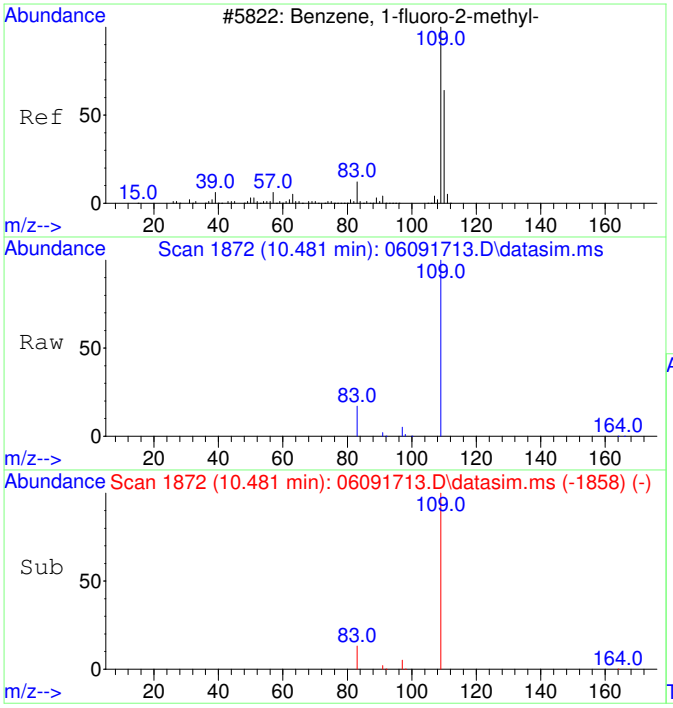
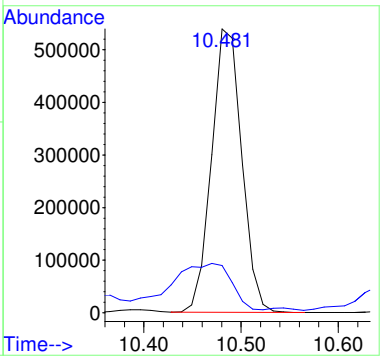
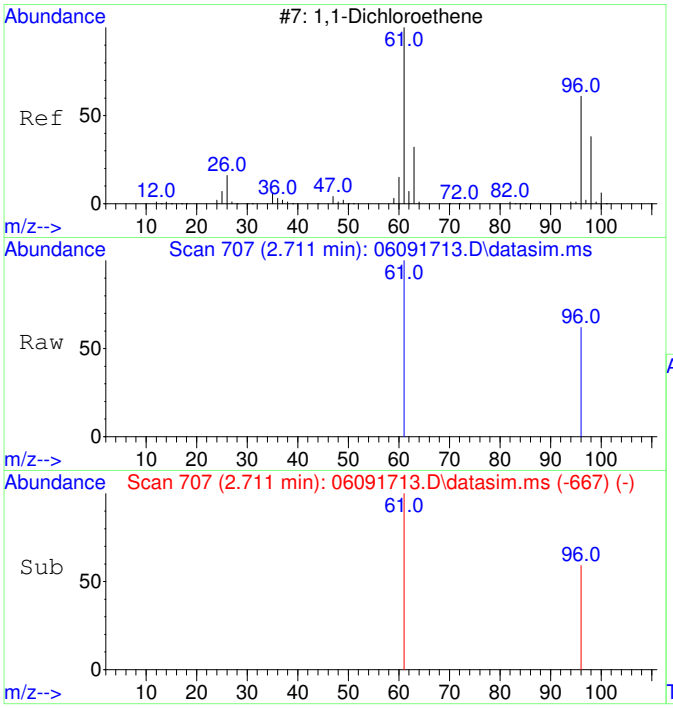


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.481 min Scan# 1872
Delta R.T. 0.001 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:109 Resp: 1161275

Ion	Ratio	Lower	Upper
109	100		
83	24.2	0.0	44.4

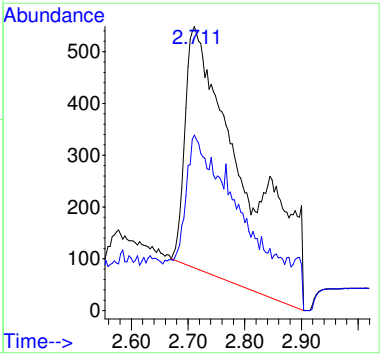




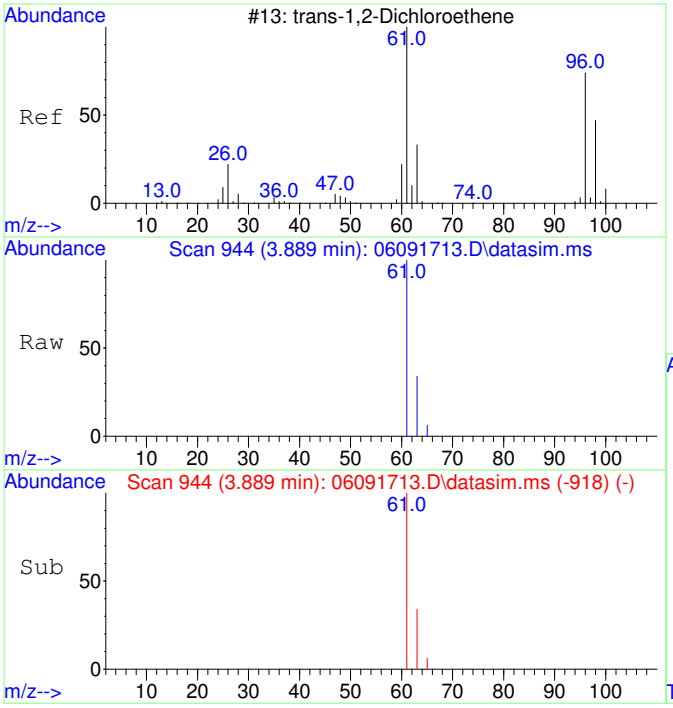
#2
1,1-Dichloroethene
Concen: 36.94 ug/L
RT: 2.711 min Scan# 707
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 61 Resp: 3383

Ion	Ratio	Lower	Upper
61	100		
96	50.0	21.8	81.8



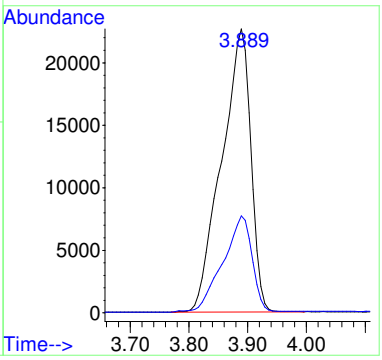
Before MI:
IMPROPER
BASELINE

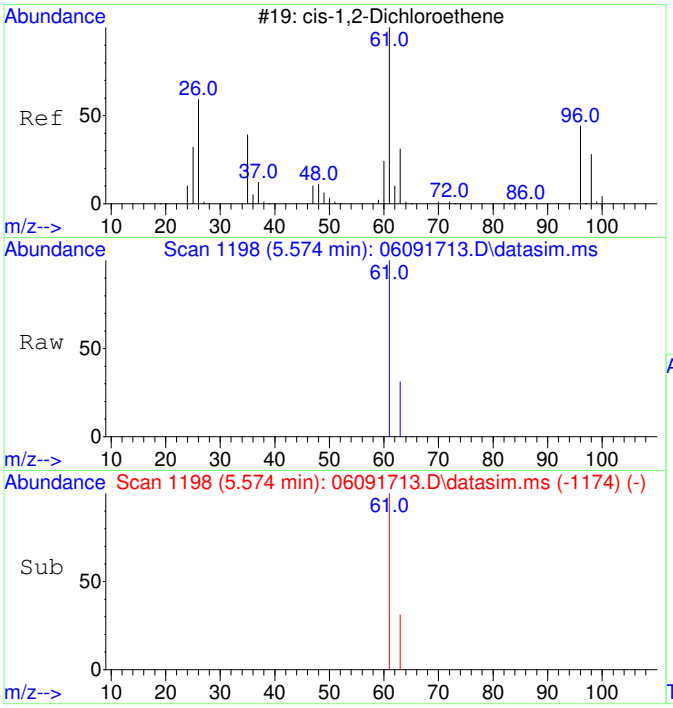


#3
trans-1,2-Dichloroethene
Concen: 785.57 ug/L
RT: 3.889 min Scan# 944
Delta R.T. 0.020 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 61 Resp: 77979

Ion	Ratio	Lower	Upper
61	100		
63	32.7	1.0	61.0

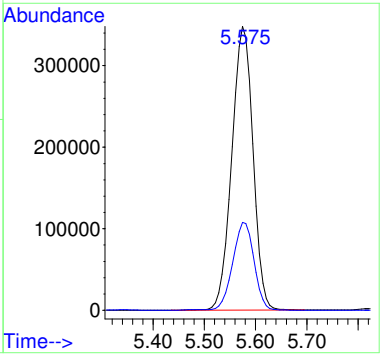


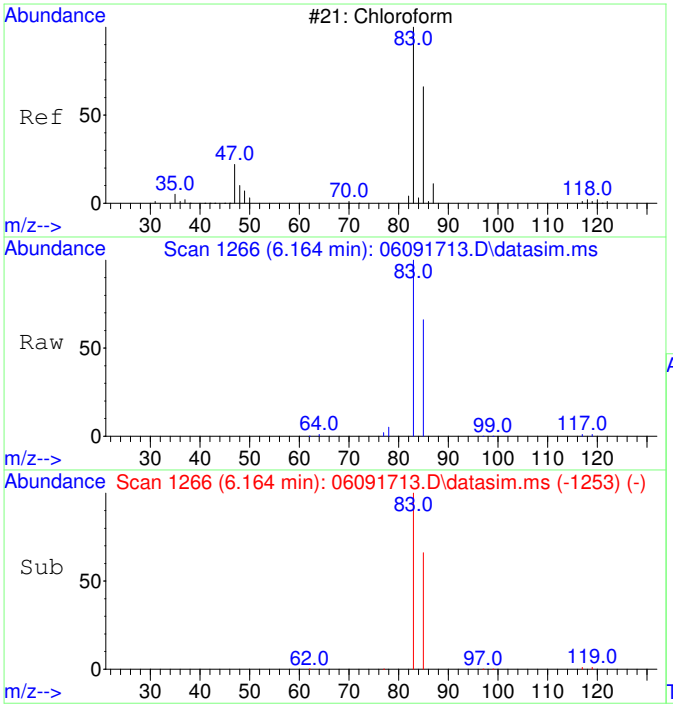


#5
cis-1,2-Dichloroethene
Concen: 9774.61 ug/L
RT: 5.574 min Scan# 1198
Delta R.T. 0.007 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 61 Resp: 999709

Ion	Ratio	Lower	Upper
61	100		
63	30.7	0.9	60.9

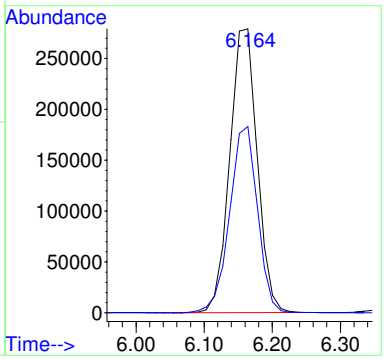


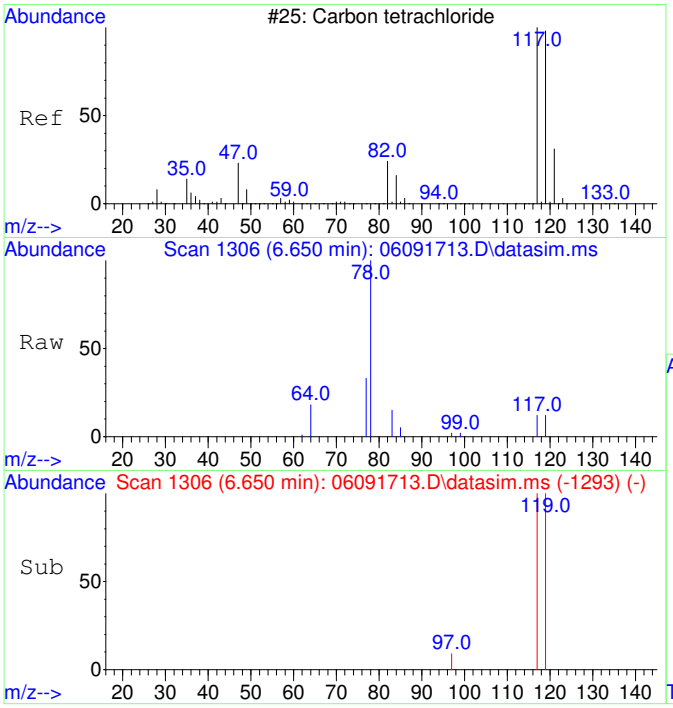


#6
Chloroform
Concen: 7878.26 ug/L
RT: 6.164 min Scan# 1266
Delta R.T. 0.012 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 83 Resp: 779694

Ion	Ratio	Lower	Upper
83	100		
85	66.2	33.7	93.7

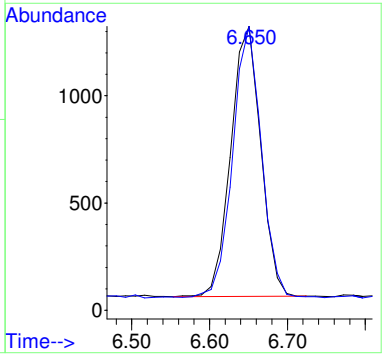


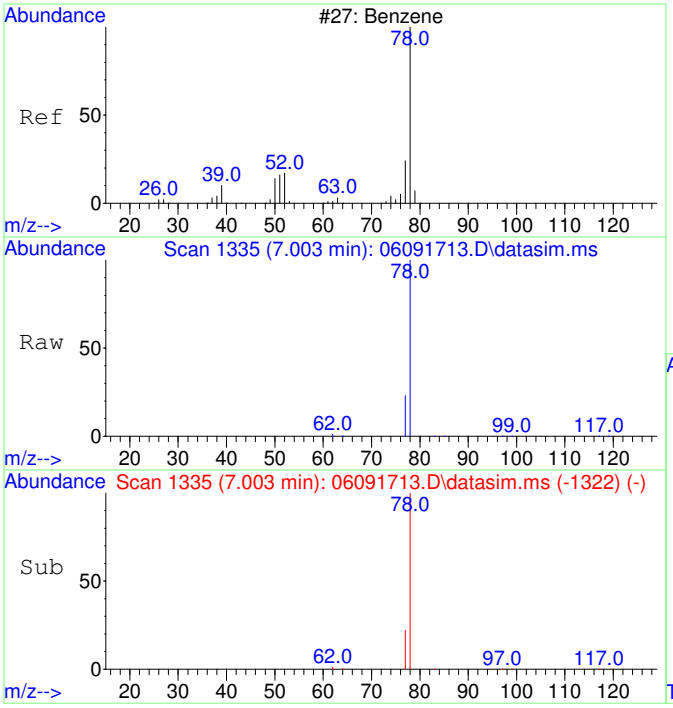


#8
Carbon tetrachloride
Concen: 42.98 ug/L
RT: 6.650 min Scan# 1306
Delta R.T. 0.012 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:117 Resp: 3370

Ion	Ratio	Lower	Upper
117	100		
119	95.2	65.5	125.5

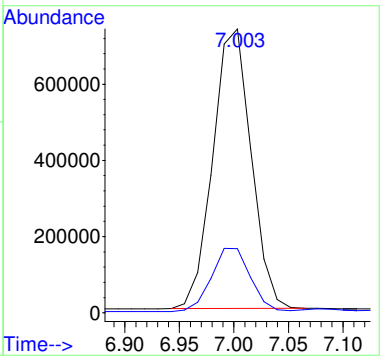


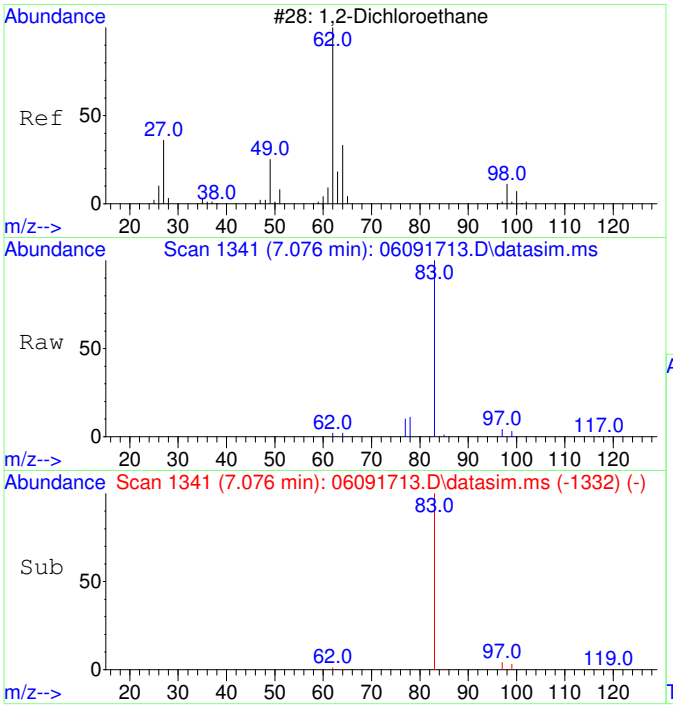


#9
Benzene
Concen: 7779.01 ug/L
RT: 7.003 min Scan# 1335
Delta R.T. 0.012 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 78 Resp: 1792864

Ion	Ratio	Lower	Upper
78	100		
77	22.7	0.0	53.0

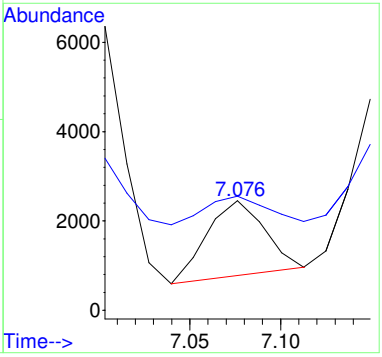


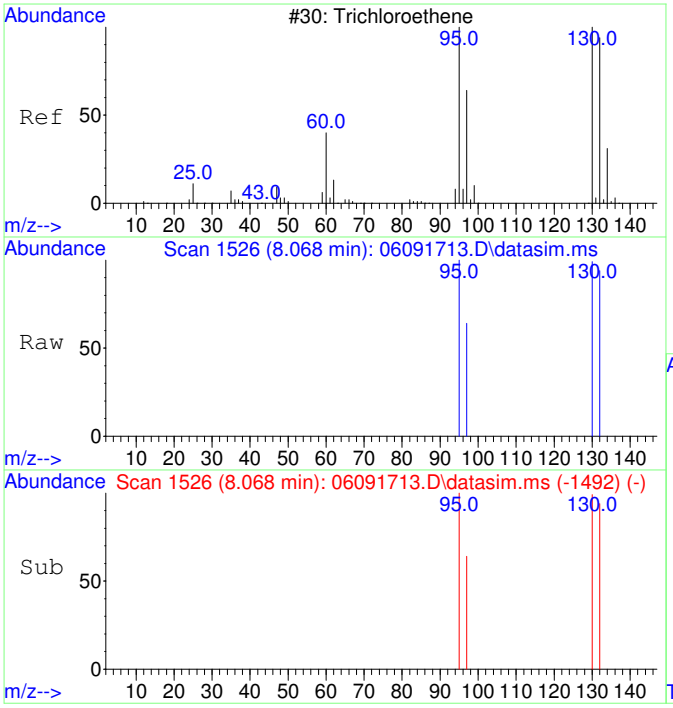


#10
1,2-Dichloroethane
Concen: 44.85 ug/L
RT: 7.076 min Scan# 1341
Delta R.T. 0.012 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 62 Resp: 3830

Ion	Ratio	Lower	Upper
62	100		
64	35.7	2.6	62.6

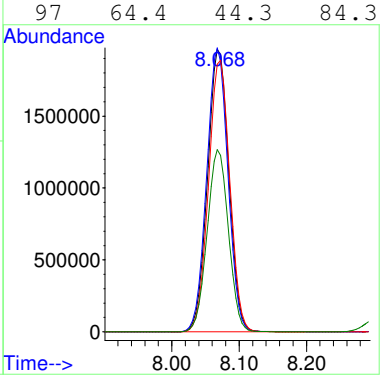


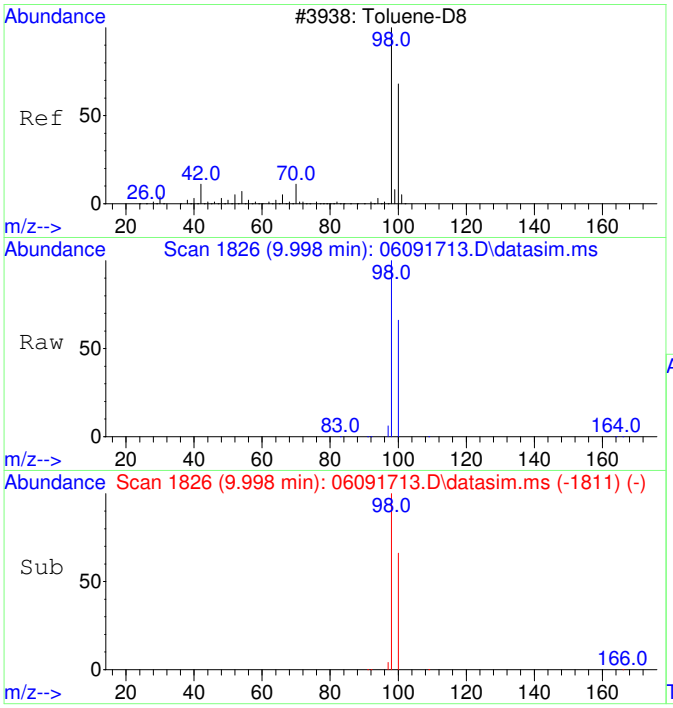


#11
Trichloroethene
Concen: 72834.84 ug/L
RT: 8.068 min Scan# 1526
Delta R.T. 0.005 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:130 Resp: 4317147

Ion	Ratio	Lower	Upper
130	100		
95	100.2	69.8	129.8
132	96.1	76.4	116.4
97	64.4	44.3	84.3

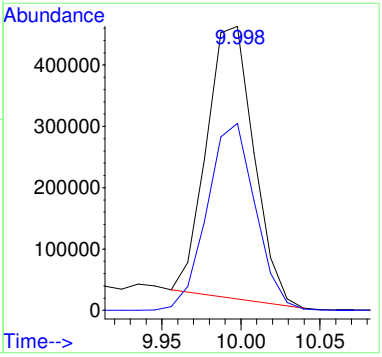


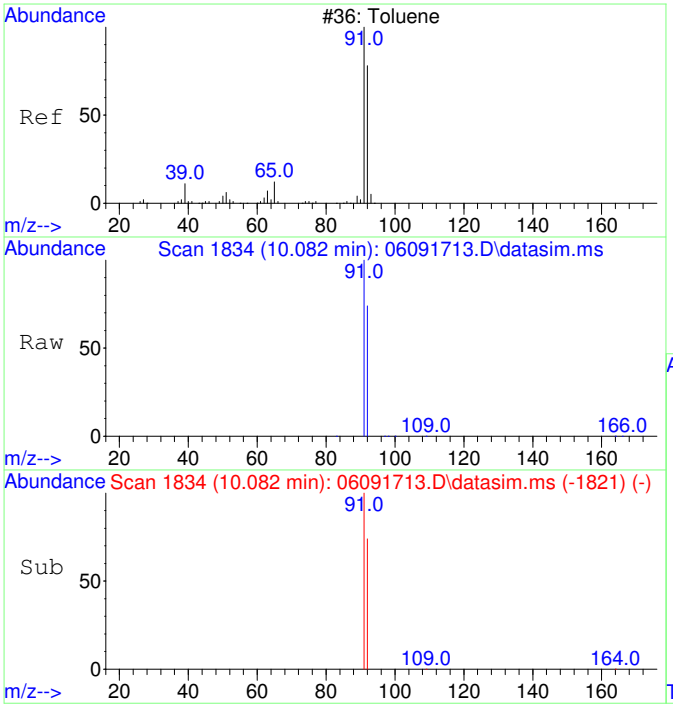


#12
Toluene-d8
Concen: 4823.58 ug/L
RT: 9.998 min Scan# 1826
Delta R.T. 0.011 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 98 Resp: 917352

Ion	Ratio	Lower	Upper
98	100		
100	70.5	34.2	94.2

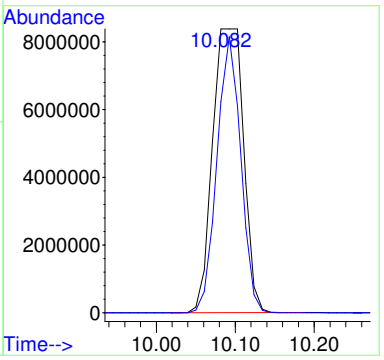


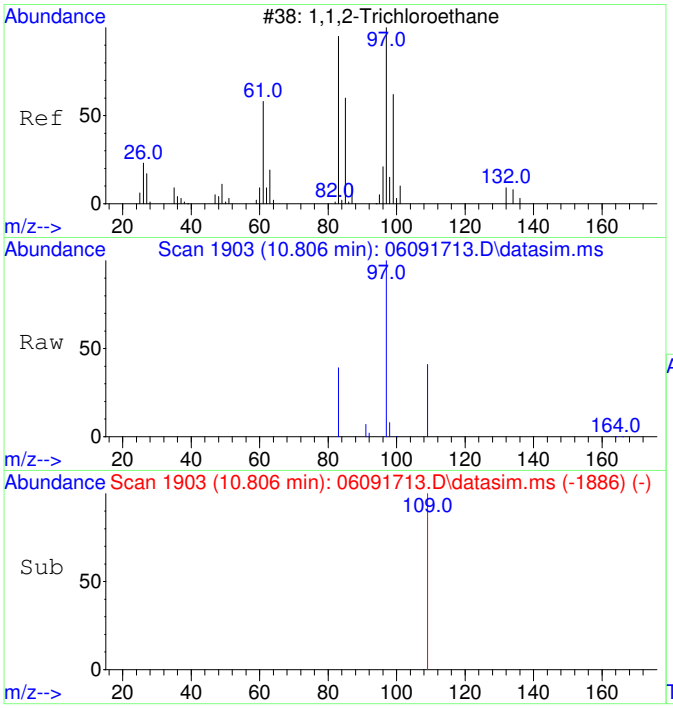


#13
Toluene
Concen: 90961.56 ug/L
RT: 10.082 min Scan# 1834
Delta R.T. -0.010 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp:22908581

Ion	Ratio	Lower	Upper
91	100		
92	74.0	28.4	88.4

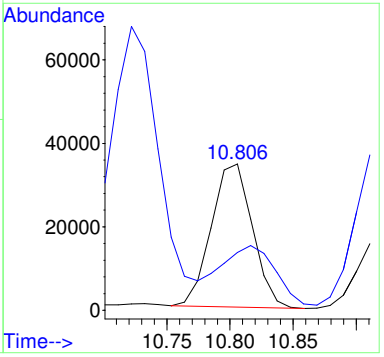


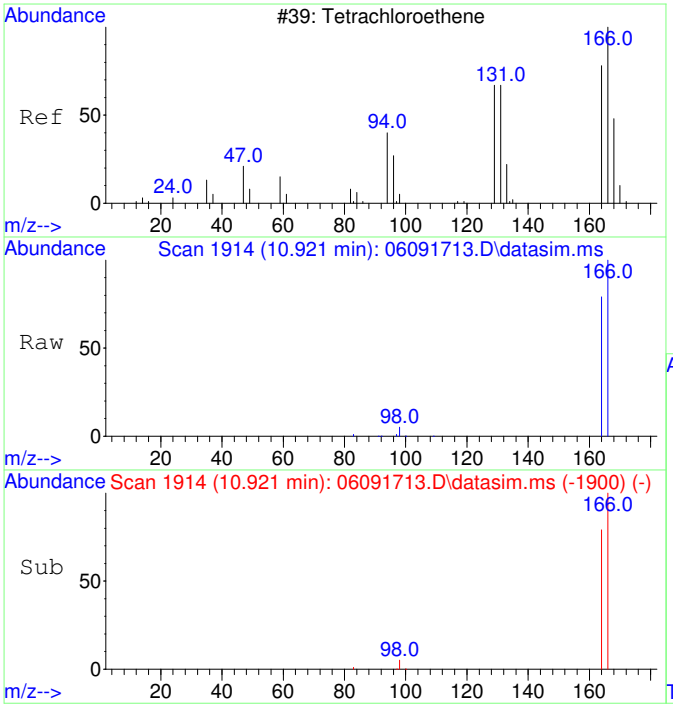


#14
1,1,2-Trichloroethane
Concen: 1440.05 ug/L
RT: 10.806 min Scan# 1903
Delta R.T. 0.032 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 97 Resp: 77554

Ion	Ratio	Lower	Upper
97	100		
83	35.1	54.5	114.5#

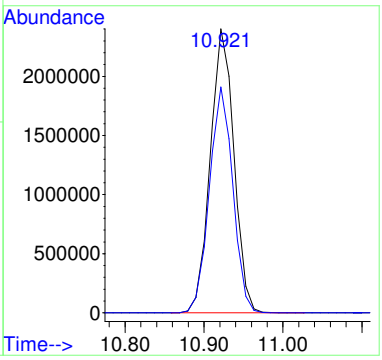


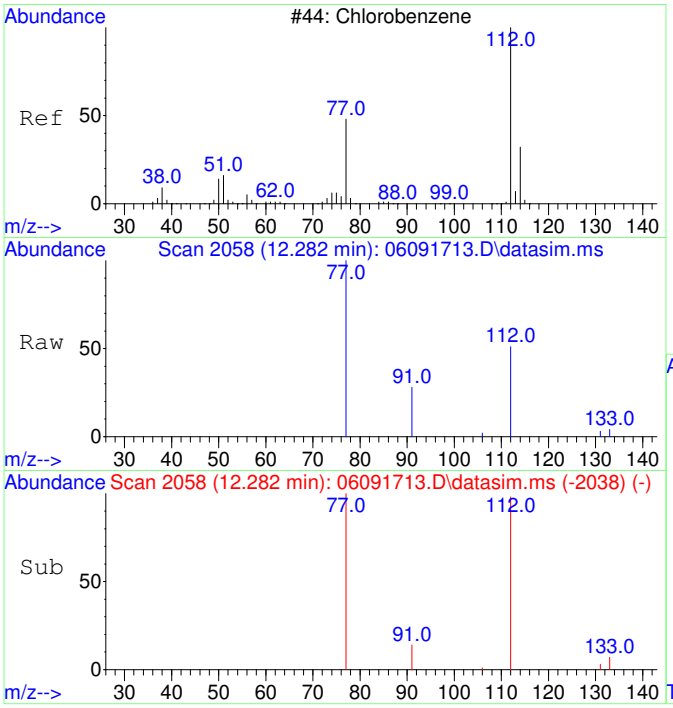


#15
Tetrachloroethene
Concen: 77302.98 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:166 Resp: 4989997

Ion	Ratio	Lower	Upper
166	100		
164	78.4	48.1	108.1

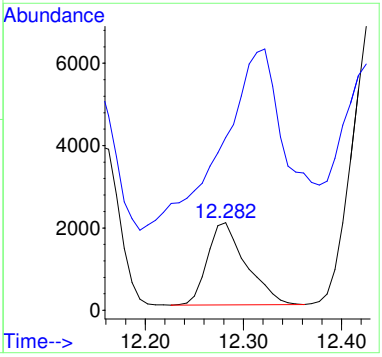


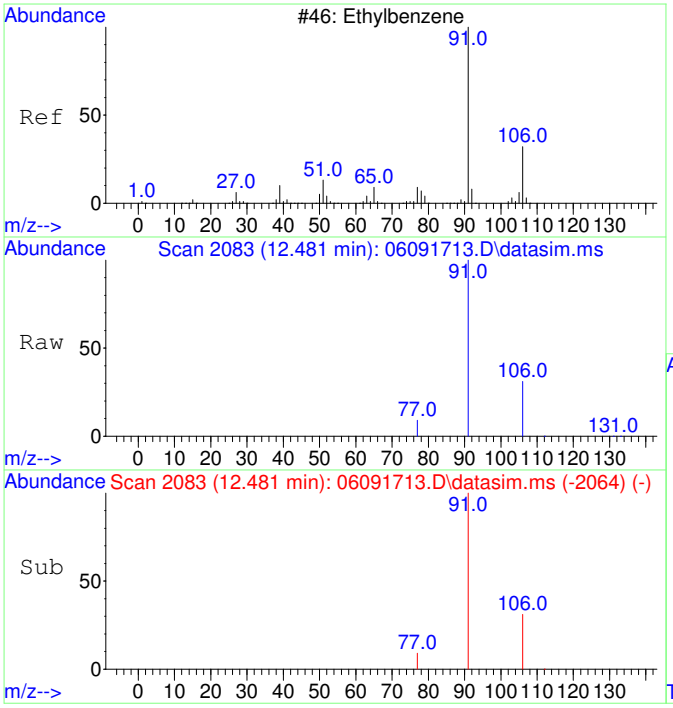


#16
Chlorobenzene
Concen: 34.04 ug/L
RT: 12.282 min Scan# 2058
Delta R.T. 0.008 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:112 Resp: 5446

Ion	Ratio	Lower	Upper
112	100		
77	0.0	28.9	88.9#

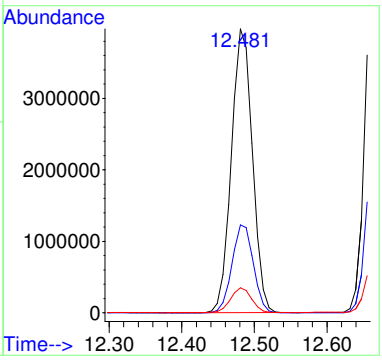


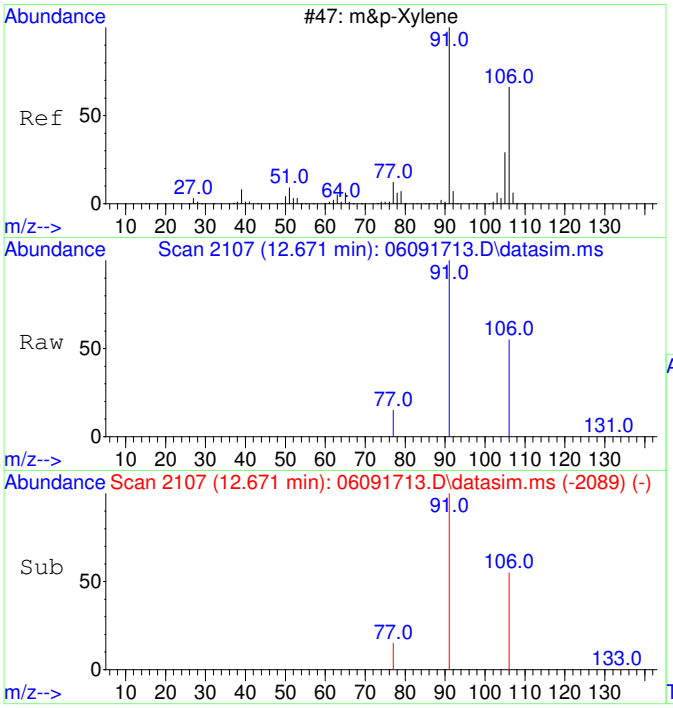


#18
Ethylbenzene
Concen: 29408.97 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp: 7971079

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.2	61.2
77	8.6	0.0	38.6

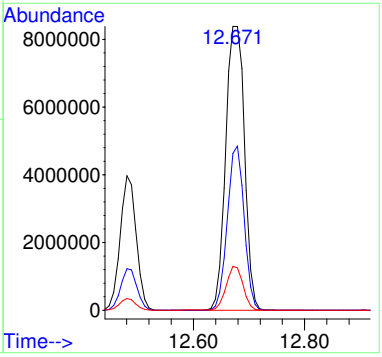


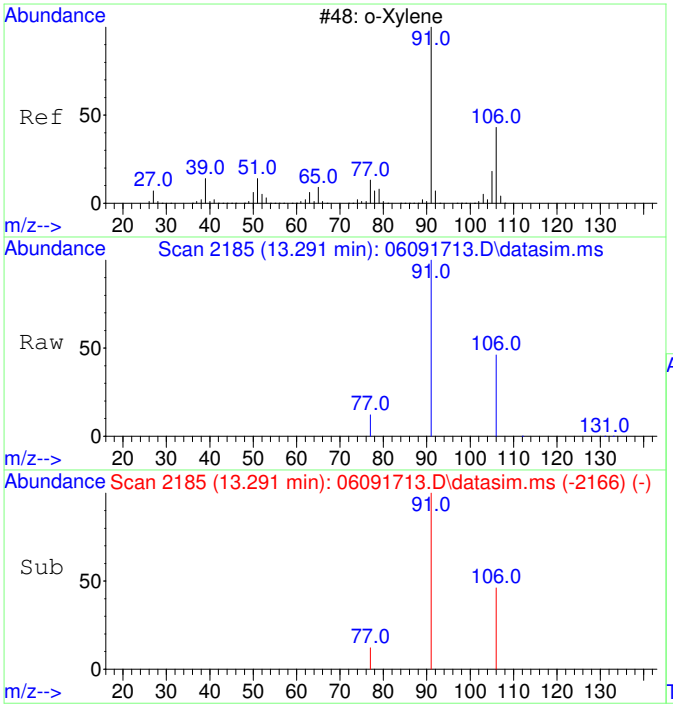


#19
m&p-Xylene
Concen: 92690.09 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp:19708397

Ion	Ratio	Lower	Upper
91	100		
106	51.7	18.4	78.4
77	13.8	0.0	43.1

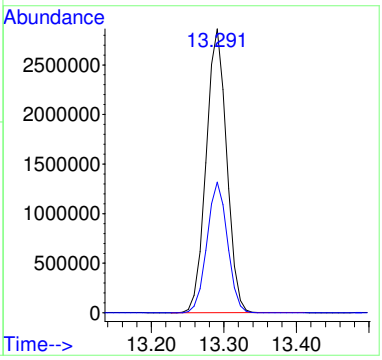


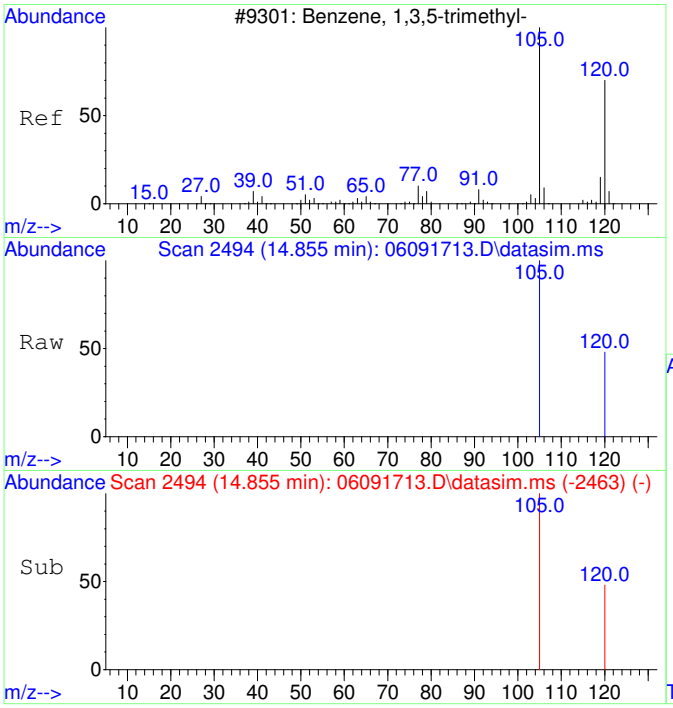


#20
o-Xylene
Concen: 25635.93 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp: 5637305

Ion	Ratio	Lower	Upper
91	100		
106	45.7	16.0	76.0

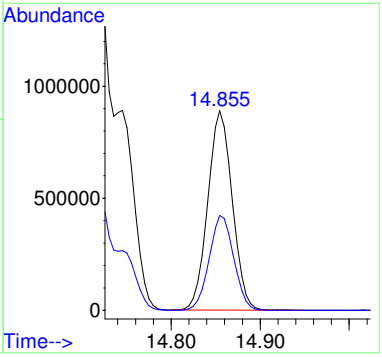


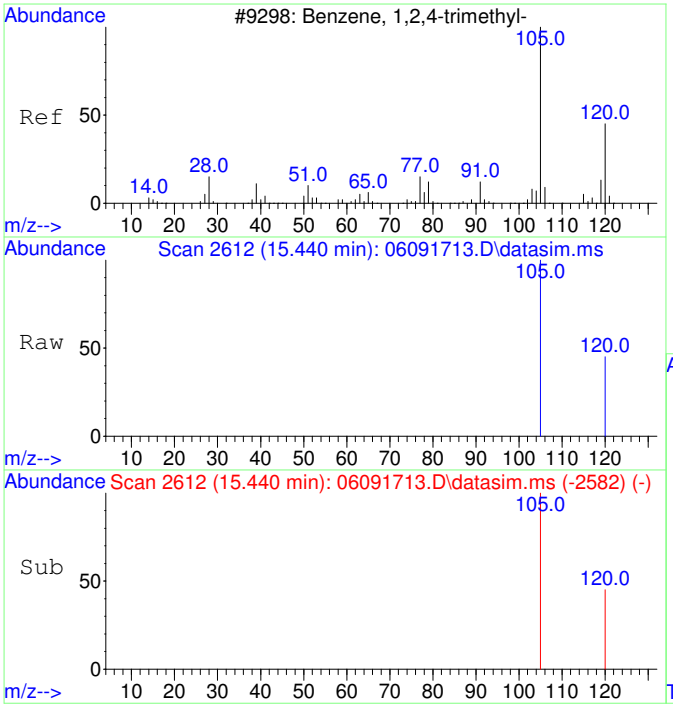


#22
1,3,5-Trimethylbenzene
Concen: 7803.78 ug/L
RT: 14.855 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:105 Resp: 1694379

Ion	Ratio	Lower	Upper
105	100		
120	47.6	18.0	78.0

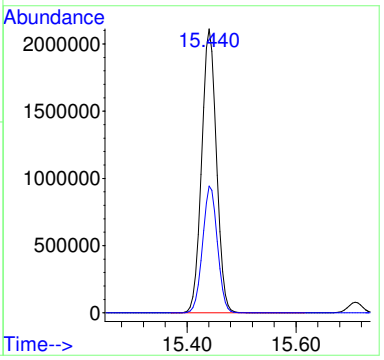


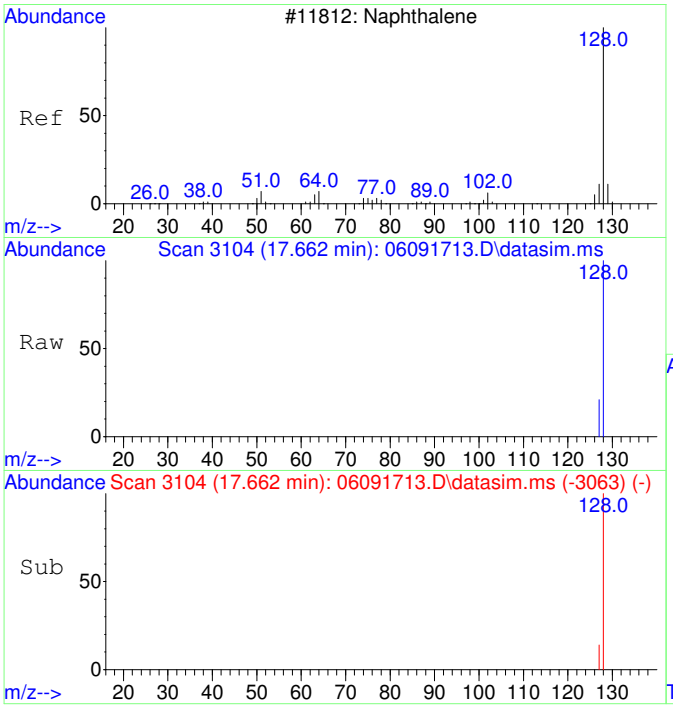


#23
1,2,4-Trimethylbenzene
Concen: 17825.36 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:105 Resp: 3967694

Ion	Ratio	Lower	Upper
105	100		
120	44.6	14.4	74.4

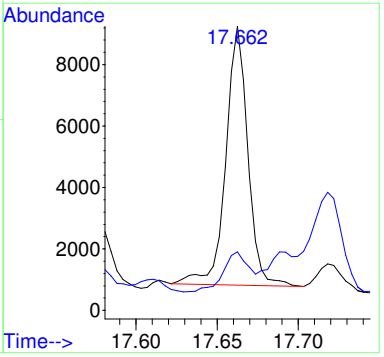


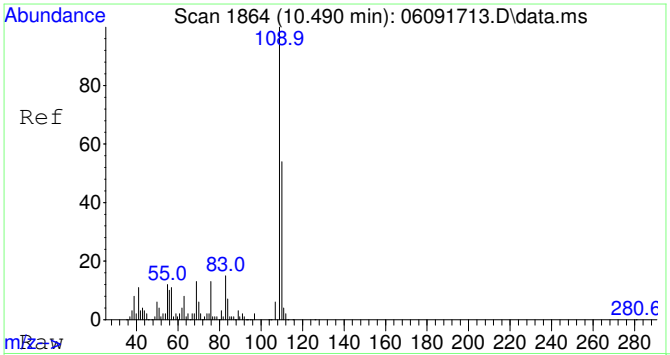


#24
Naphthalene
Concen: 24.18 ug/L
RT: 17.662 min Scan# 3104
Delta R.T. 0.001 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:128 Resp: 7971

Ion	Ratio	Lower	Upper
128	100		
127	9.5	0.0	42.7

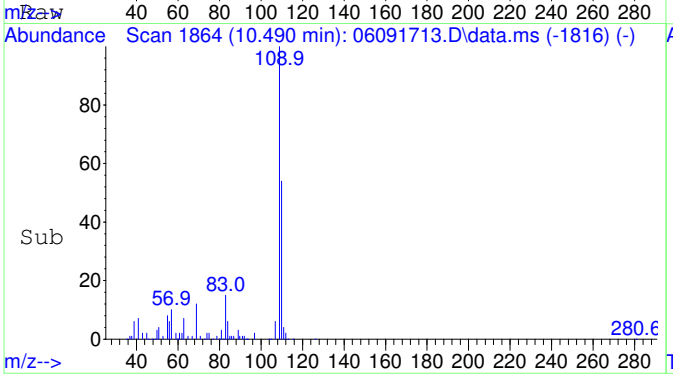


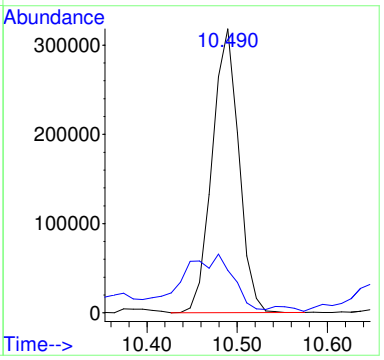


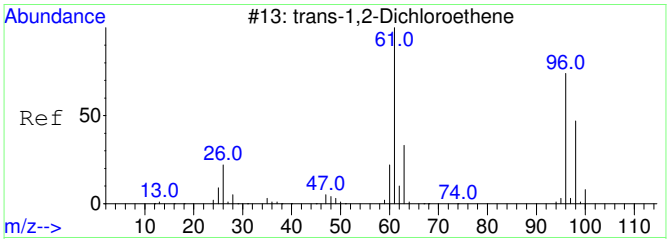
#25
2-Fluorotoluene SCAN
Concen: 4651.29 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

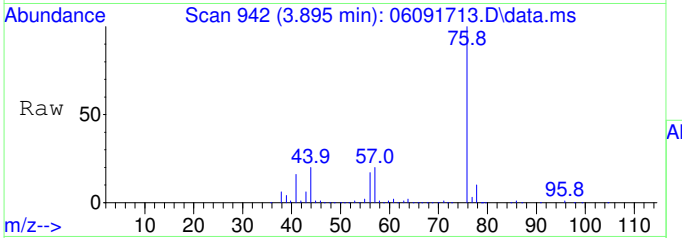
Tgt Ion:109 Resp: 654886

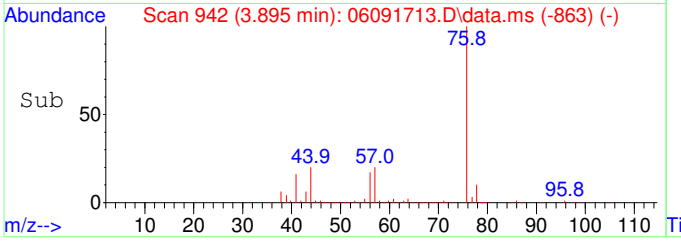
Ion	Ratio	Lower	Upper
109	100		
83	27.6	0.0	46.1







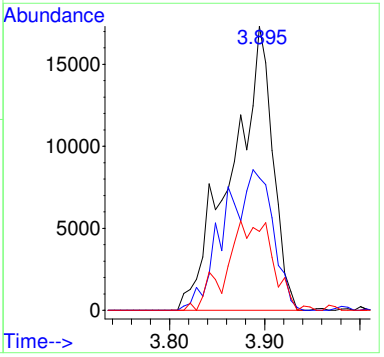


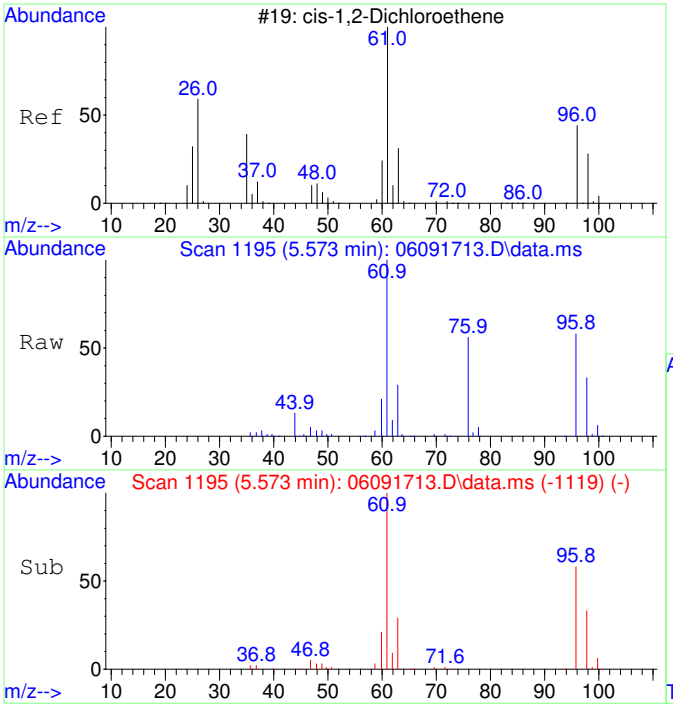


#27
trans-1,2-Dichloroethene SCAN
Concen: 822.31 ug/L
RT: 3.895 min Scan# 942
Delta R.T. 0.027 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 61 Resp: 51987

Ion	Ratio	Lower	Upper
61	100		
96	14.3	26.1	86.1#
98	35.4	4.4	64.4

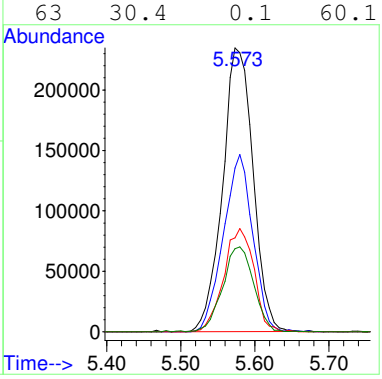


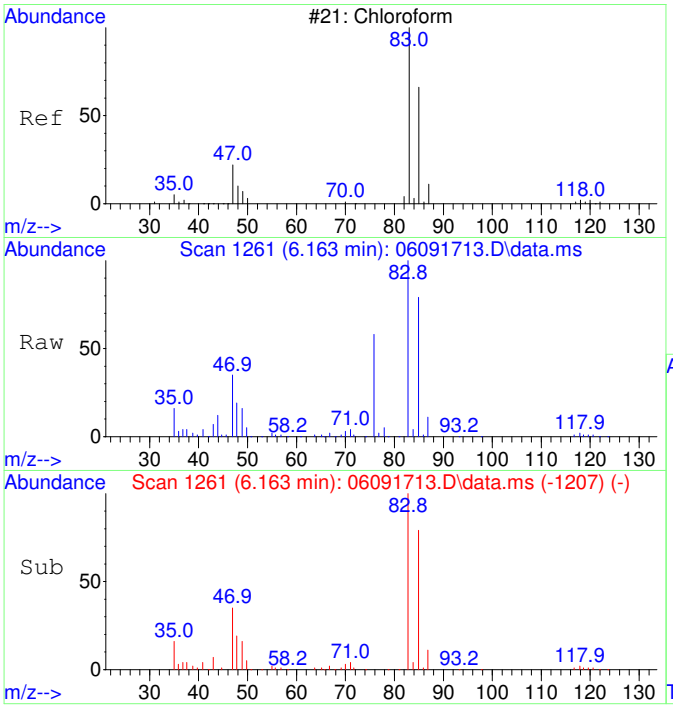


#29
cis-1,2-Dichloroethene SCAN
Concen: 9253.95 ug/L
RT: 5.573 min Scan# 1195
Delta R.T. 0.007 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 61 Resp: 674898

Ion	Ratio	Lower	Upper
61	100		
96	60.3	17.5	77.5
98	36.0	1.9	61.9
63	30.4	0.1	60.1

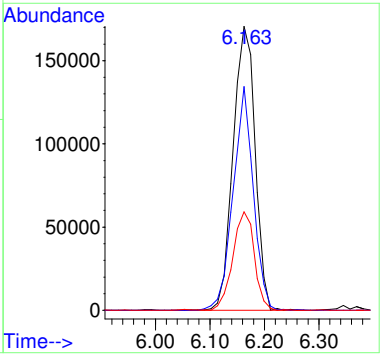


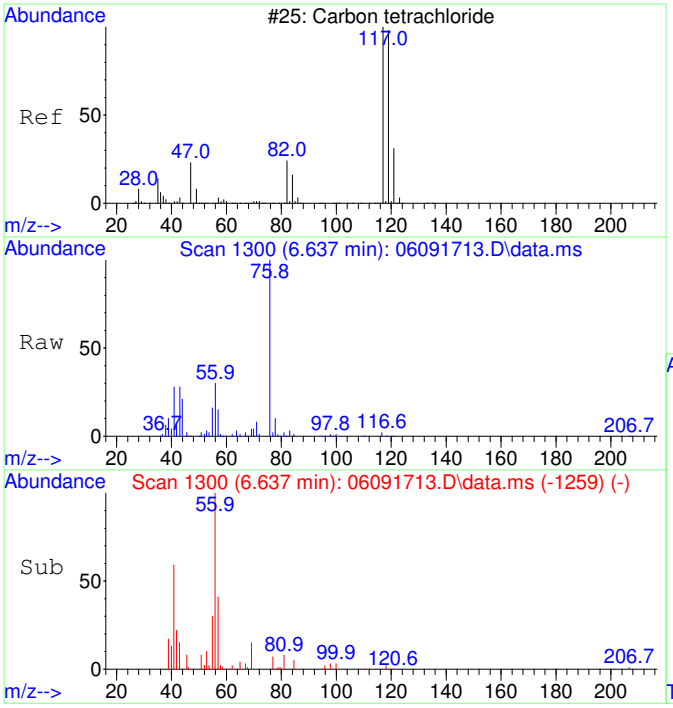


#30
Chloroform SCAN
Concen: 7297.57 ug/L
RT: 6.163 min Scan# 1261
Delta R.T. 0.012 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 83 Resp: 479922

Ion	Ratio	Lower	Upper
83	100		
85	72.4	31.2	91.2
47	33.8	3.2	63.2

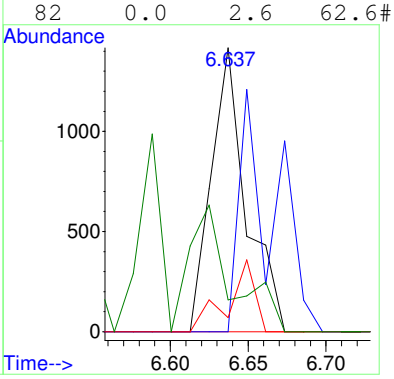


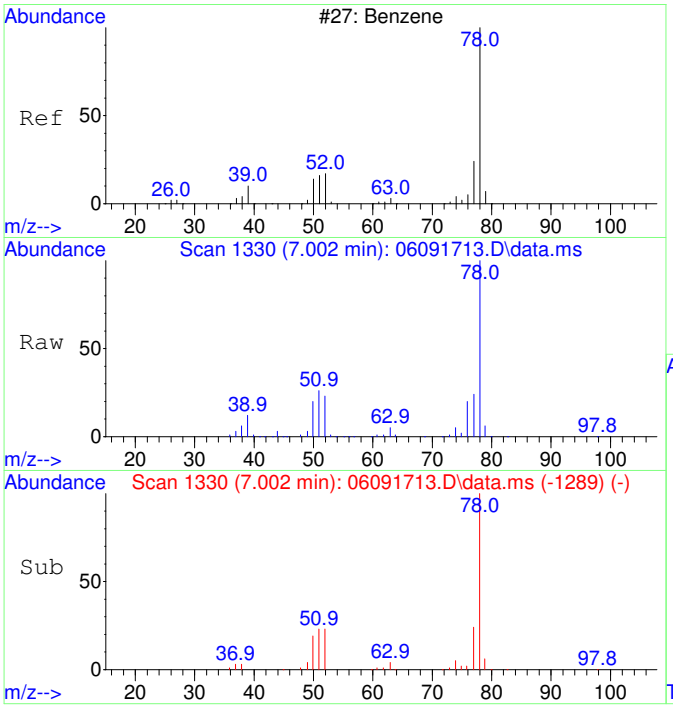


#32
Carbon tetrachloride SCAN
Concen: 44.52 ug/L
RT: 6.637 min Scan# 1300
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:117 Resp: 2218

Ion	Ratio	Lower	Upper
117	100		
119	84.0	66.8	126.8
121	19.3	0.4	60.4
82	0.0	2.6	62.6#

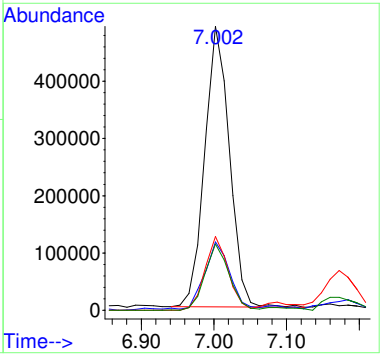


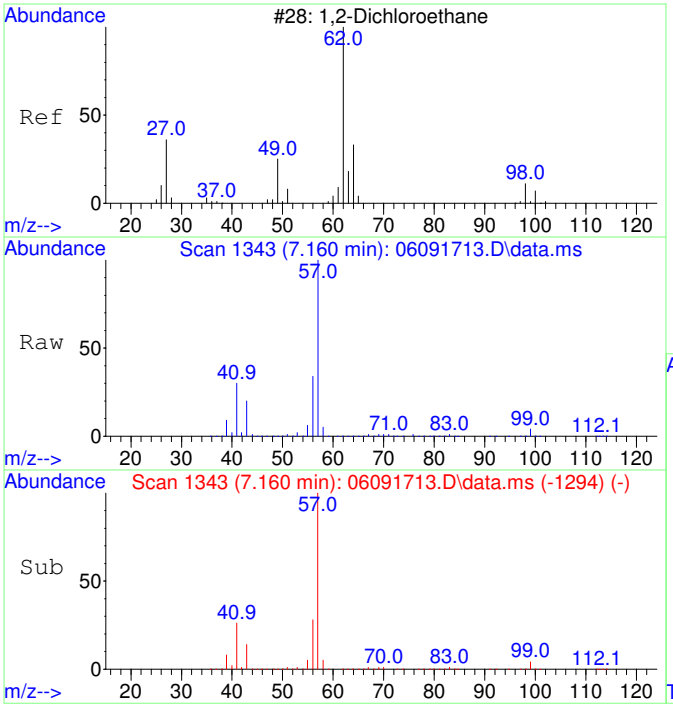


#33
Benzene SCAN
Concen: 7787.51 ug/L
RT: 7.002 min Scan# 1330
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 78 Resp: 1160743

Ion	Ratio	Lower	Upper
78	100		
77	23.2	0.0	55.2
51	23.8	0.0	52.4
52	22.5	0.0	53.3

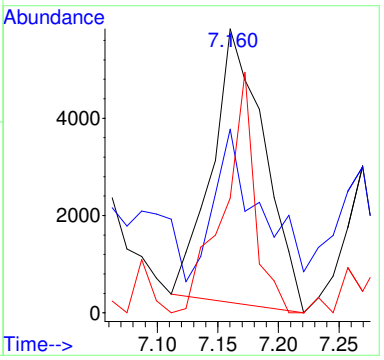


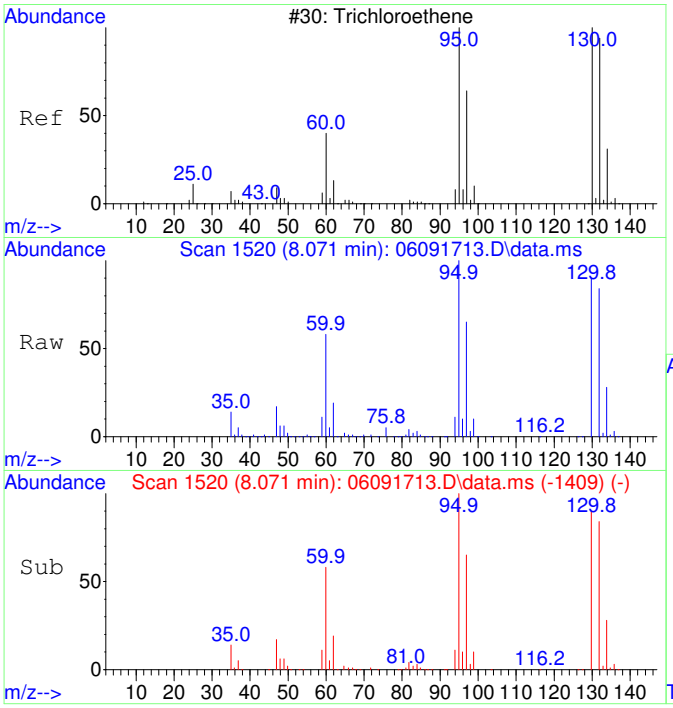


#34
1,2-Dichloroethane SCAN
Concen: 263.18 ug/L
RT: 7.160 min Scan# 1343
Delta R.T. 0.097 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 62 Resp: 16926

Ion	Ratio	Lower	Upper
62	100		
64	44.0	7.4	67.4
49	51.7	0.0	54.8

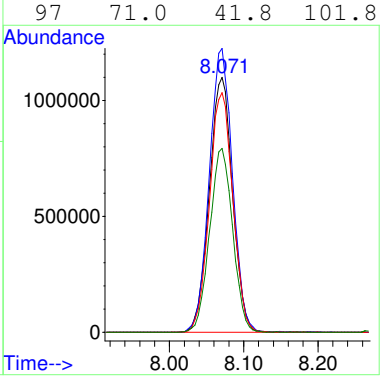


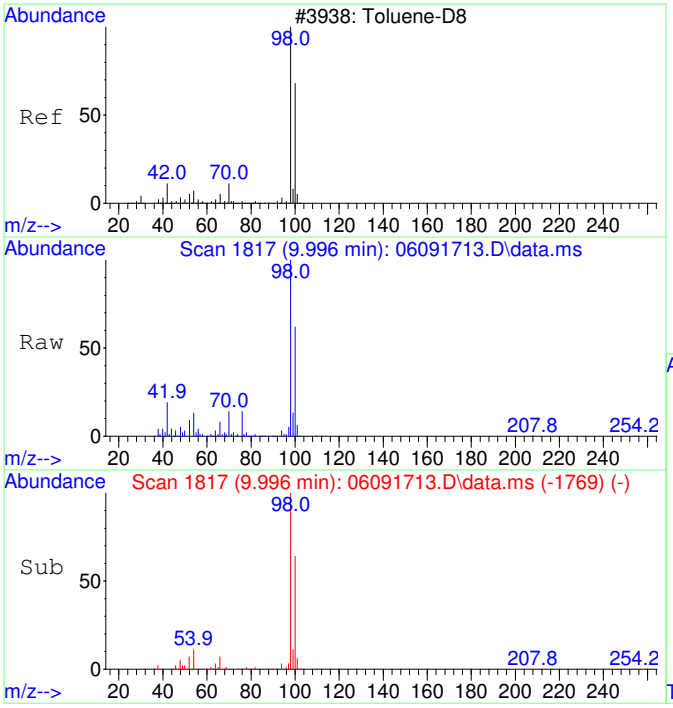


#35
Trichloroethene SCAN
Concen: 69679.82 ug/L
RT: 8.071 min Scan# 1520
Delta R.T. 0.009 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:130 Resp: 2405136

Ion	Ratio	Lower	Upper
130	100		
95	110.2	76.1	136.1
132	94.1	65.6	125.6
97	71.0	41.8	101.8

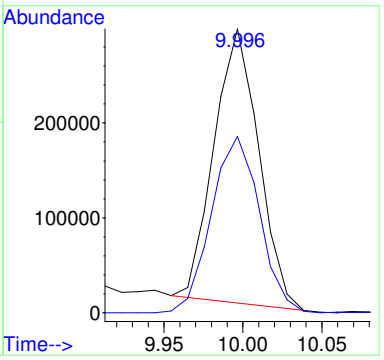


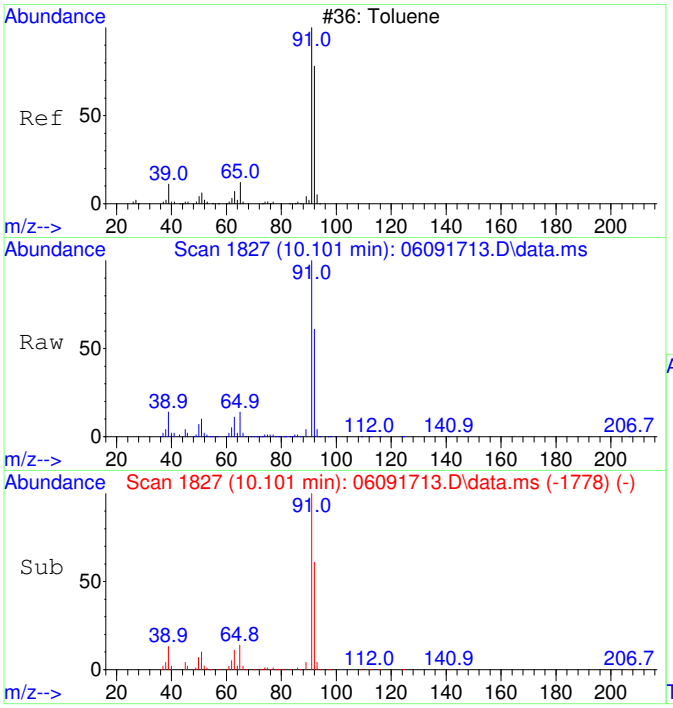


#36
Toluene-d8 SCAN
Concen: 4853.61 ug/L
RT: 9.996 min Scan# 1817
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 98 Resp: 563994

Ion	Ratio	Lower	Upper
98	100		
100	70.1	36.2	96.2

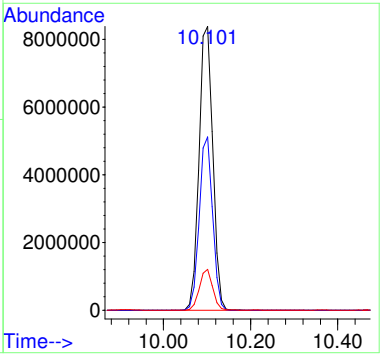


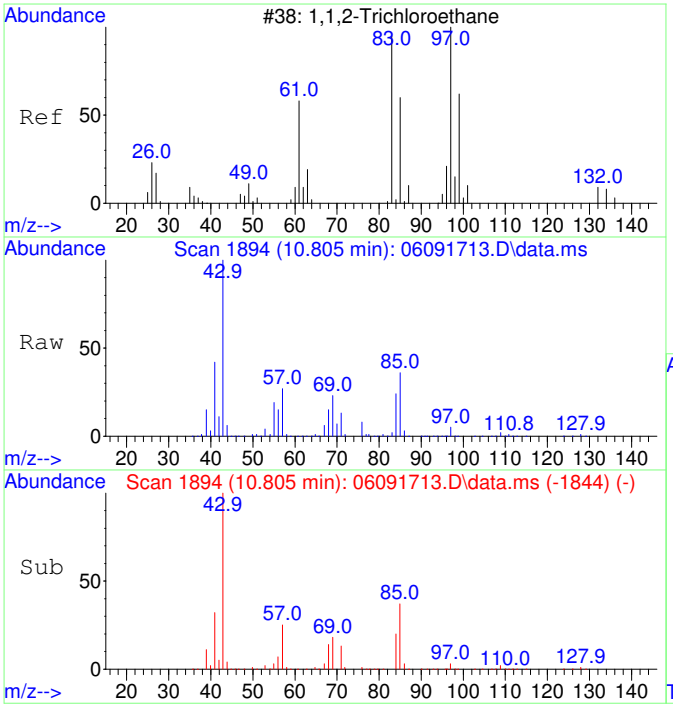


#37
Toluene SCAN
Concen: 119170.56 ug/L
RT: 10.101 min Scan# 1827
Delta R.T. 0.011 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp:18469551

Ion	Ratio	Lower	Upper
91	100		
92	59.3	29.2	89.2
65	14.0	0.0	44.3

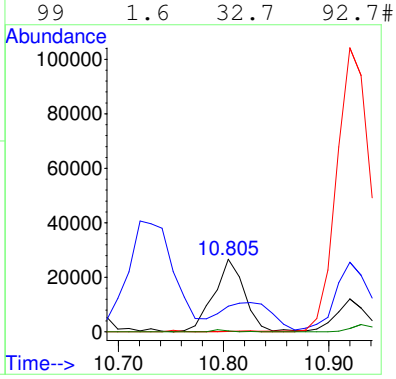


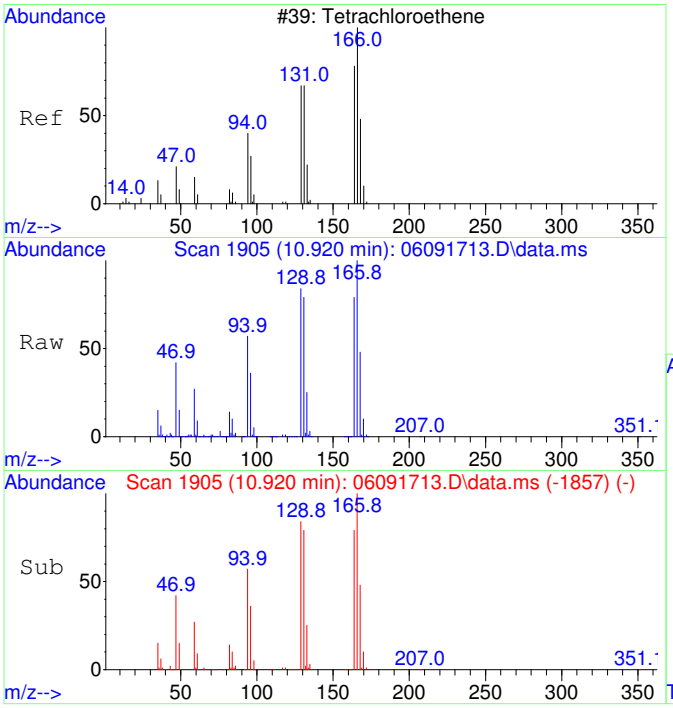


#38
1,1,2-Trichloroethane SCAN
Concen: 1526.28 ug/L
RT: 10.805 min Scan# 1894
Delta R.T. 0.021 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 97 Resp: 53275

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.8	117.8#
61	0.0	48.6	108.6#
99	1.6	32.7	92.7#

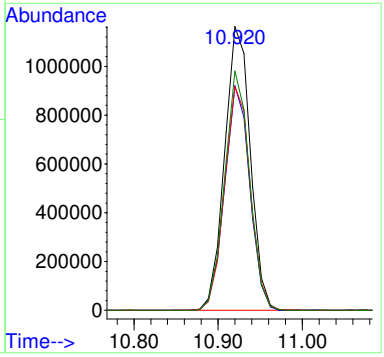


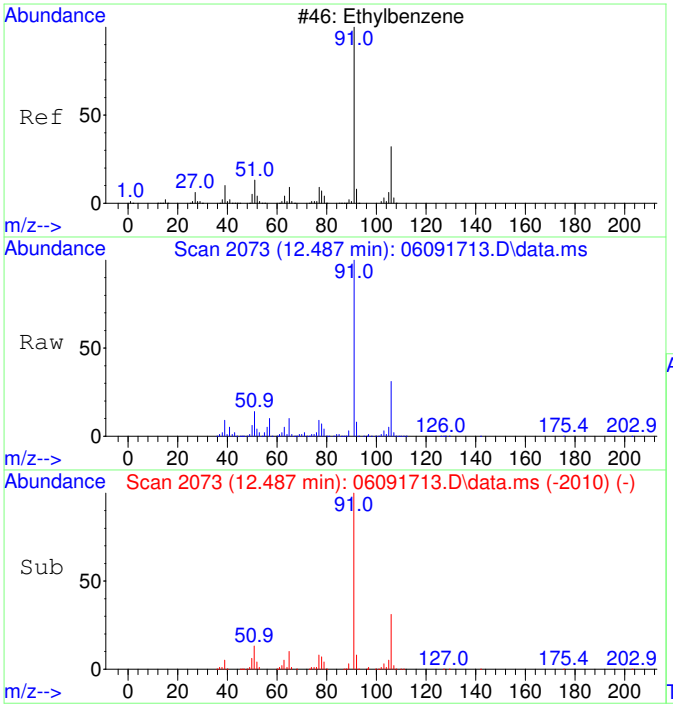


#39
Tetrachloroethene SCAN
Concen: 77748.01 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:166 Resp: 2470302

Ion	Ratio	Lower	Upper
166	100		
164	77.5	45.7	105.7
131	78.6	44.8	104.8
129	81.8	55.5	115.5

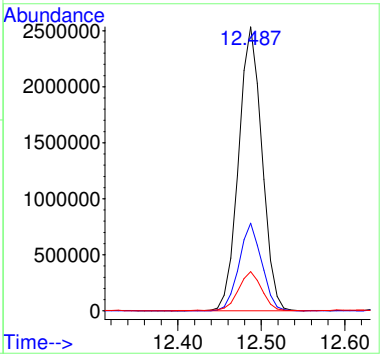


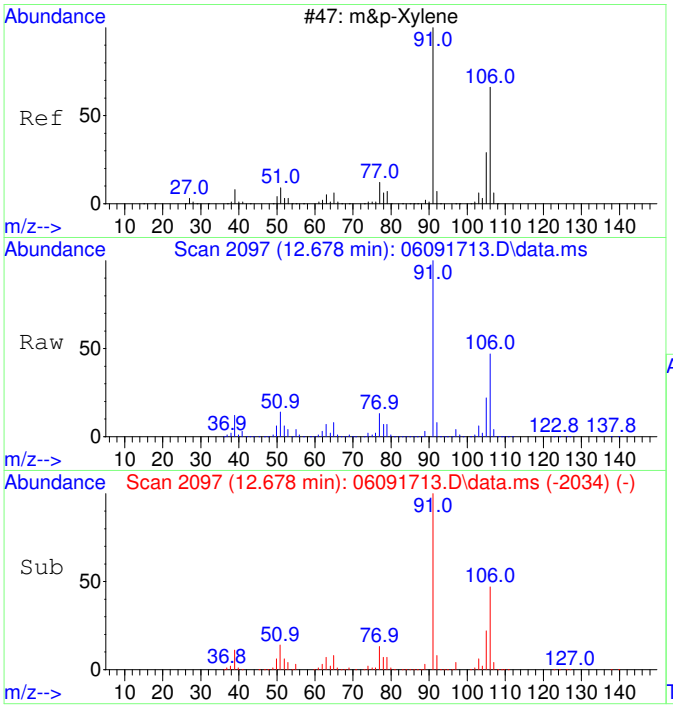


#42
Ethylbenzene SCAN
Concen: 28390.71 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp: 4926852

Ion	Ratio	Lower	Upper
91	100		
106	30.0	0.0	59.8
51	14.0	0.0	45.5

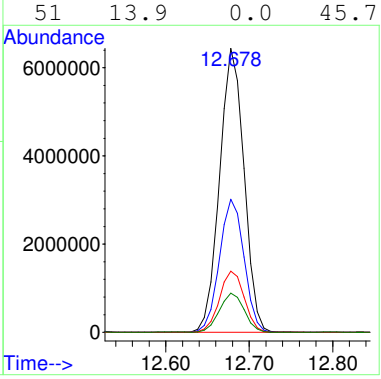


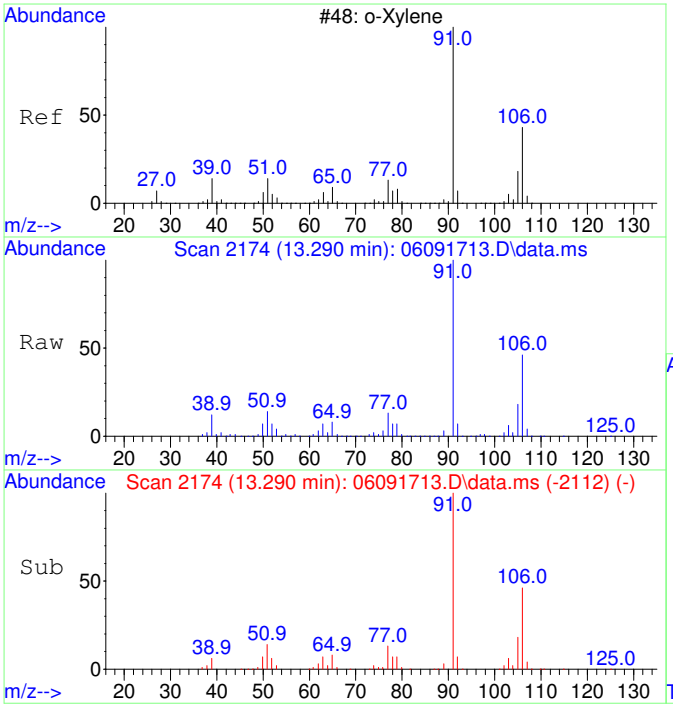


#43
m&p-Xylene SCAN
Concen: 48362.11 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp:13103673

Ion	Ratio	Lower	Upper
91	100		
106	47.2	18.5	78.5
105	21.9	0.0	51.3
51	13.9	0.0	45.7

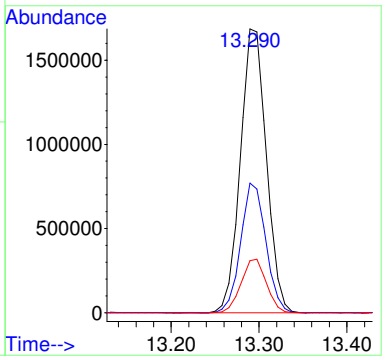


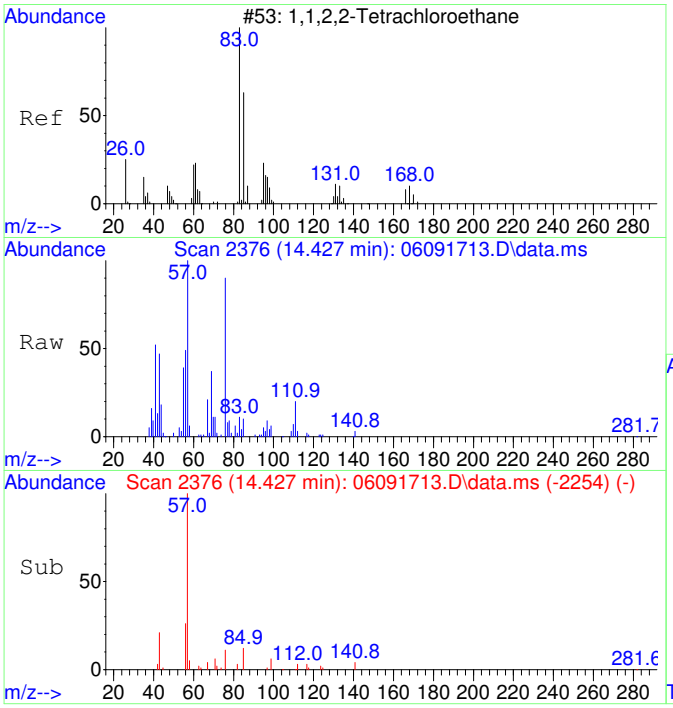


#44
o-Xylene SCAN
Concen: 24804.88 ug/L
RT: 13.290 min Scan# 2174
Delta R.T. -0.008 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp: 3460871

Ion	Ratio	Lower	Upper
91	100		
106	44.3	15.5	75.5
105	18.5	0.0	54.1

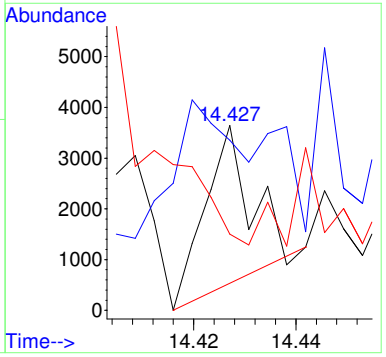


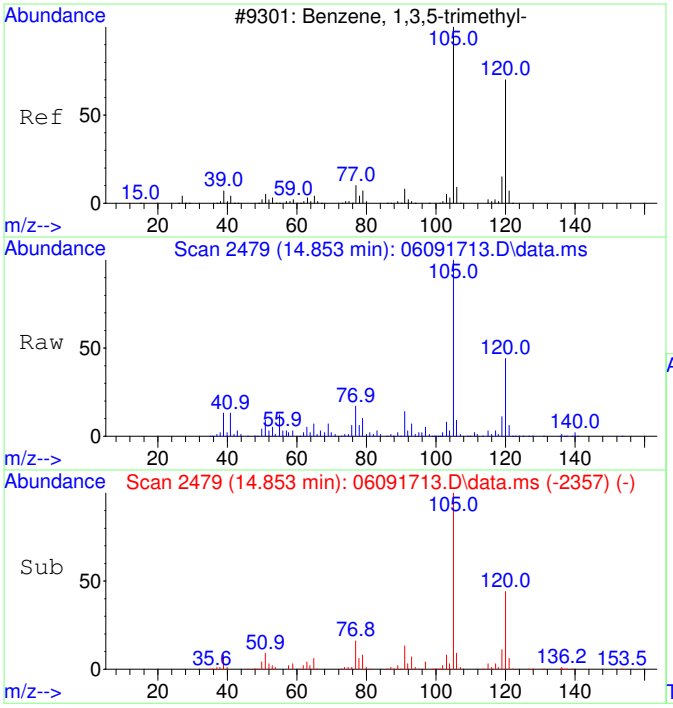


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 32.32 ug/L
RT: 14.427 min Scan# 2376
Delta R.T. -0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 83 Resp: 2040

Ion	Ratio	Lower	Upper
83	100		
85	186.2	33.9	93.9#
95	0.0	0.0	46.3

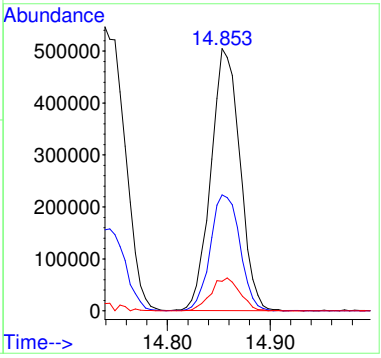


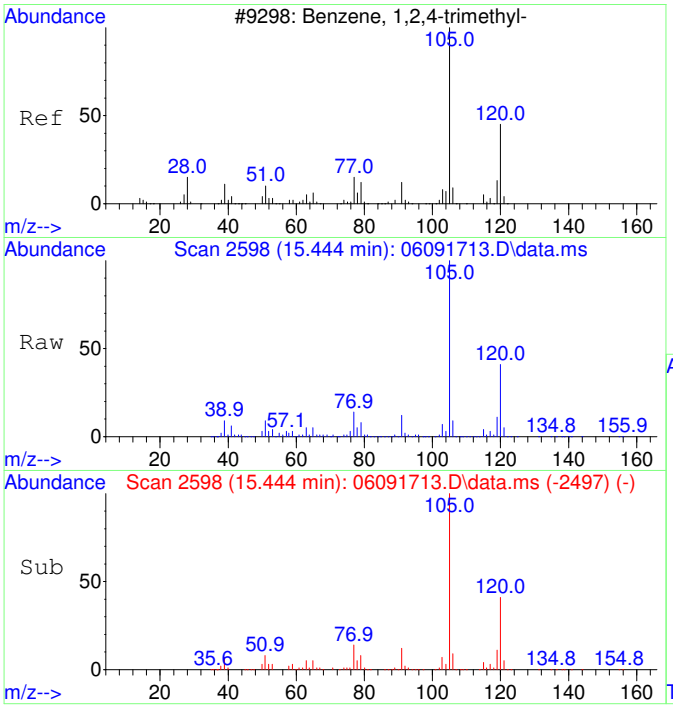


#46
1,3,5-Trimethylbenzene SCAN
Concen: 7467.39 ug/L
RT: 14.853 min Scan# 2479
Delta R.T. -0.004 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:105 Resp: 988283

Ion	Ratio	Lower	Upper
105	100		
120	45.0	17.3	77.3
119	12.5	0.0	42.7

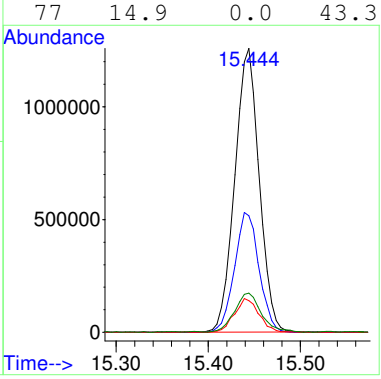


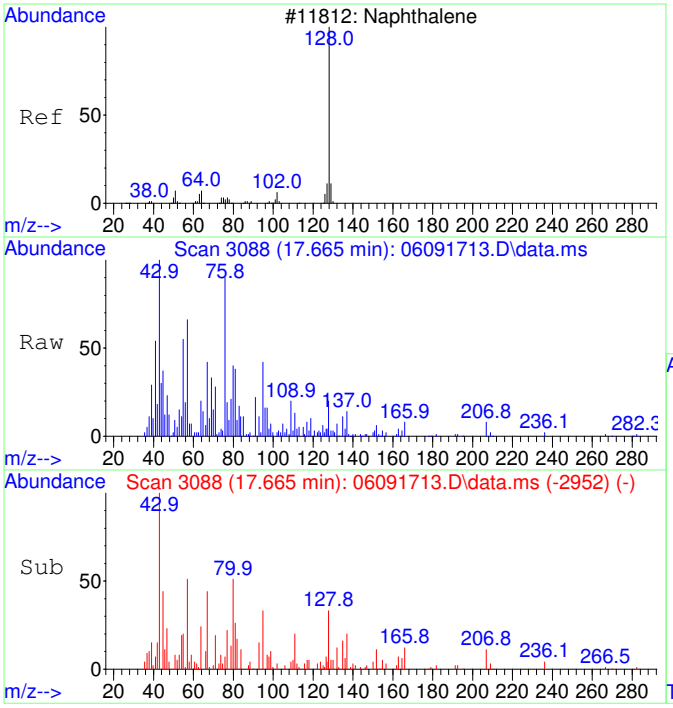


#47
1,2,4-Trimethylbenzene SCAN
Concen: 16808.77 ug/L
RT: 15.444 min Scan# 2598
Delta R.T. 0.001 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:105 Resp: 2318226

Ion	Ratio	Lower	Upper
105	100		
120	42.4	12.9	72.9
119	12.0	0.0	40.5
77	14.9	0.0	43.3

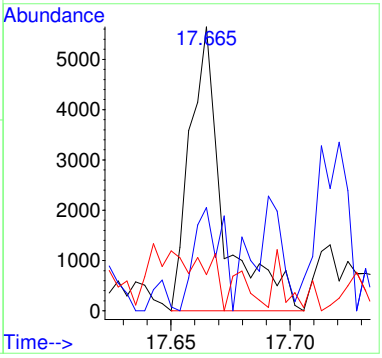




#48
Naphthalene SCAN
Concen: 29.23 ug/L
RT: 17.665 min Scan# 3088
Delta R.T. 0.005 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:128 Resp: 5560

Ion	Ratio	Lower	Upper
128	100		
127	29.5	0.0	43.9
129	7.8	0.0	41.0



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091713.D
Acq On : 9 Jun 2017 15:18
InstName : AG5975C
Operator : RH
Sample : 1706012-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

M.I. Performed By:
RH at 3:14 pm, Jun 12, 2017

M.I. Approved By:
ZR at 11:52 am, Jun 14, 2017

Quant Time: Jun 09 16:57:33 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

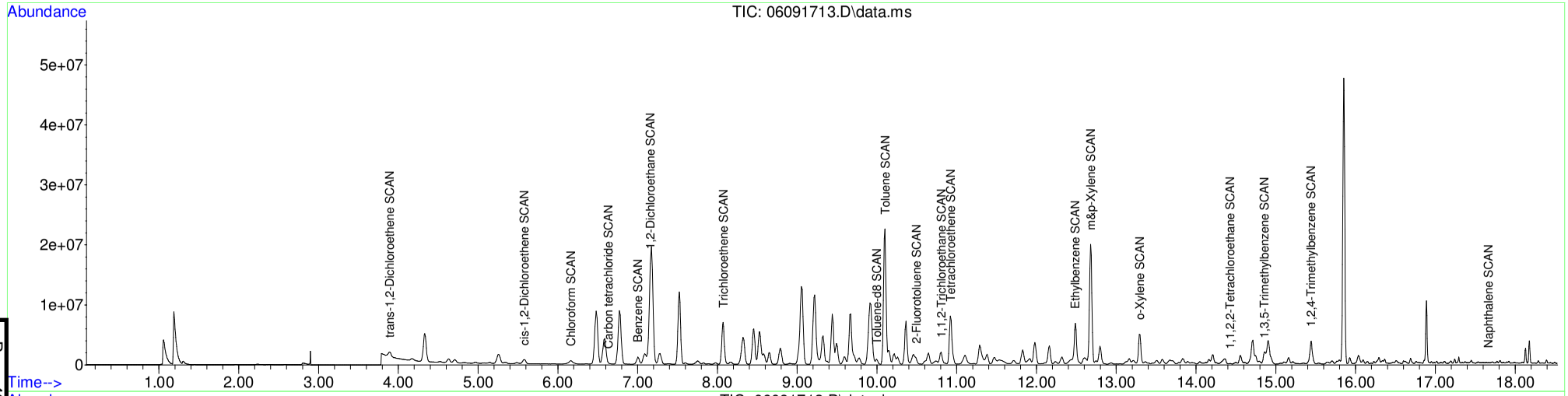
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.481	109	1161275	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.998	98	917352	4823.58 ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery =	96.47%	
Target Compounds					Qvalue
3] trans-1,2-Dichloroethene	3.889	61	77979	785.57 ug/L	97
5] cis-1,2-Dichloroethene	5.574	61	999709	9774.61 ug/L	100
6] Chloroform	6.164	83	779694	7878.26 ug/L	97
8] Carbon tetrachloride	6.650	117	3370	42.98 ug/L	100
9] Benzene	7.003	78	1792864	7779.01 ug/L	99
10] 1,2-Dichloroethane	7.076	62	3830	44.85 ug/L	94
11] Trichloroethene	8.068	130	4317147	72834.84 ug/L	100 OC
13] Toluene	10.082	91	22908581	90961.56 ug/L OC	79
14] 1,1,2-Trichloroethane	10.806	97	77554	1440.05 ug/L #	46
15] Tetrachloroethene	10.921	166	4989997	77302.98 ug/L	100 OC
16] Chlorobenzene	12.282	112	5446	34.04 ug/L #	21
18] Ethylbenzene	12.481	91	7971079	29408.97 ug/L	100 OC
19] m&p-Xylene	12.671	91	19708397	92690.09 ug/L OC	96
20] o-Xylene	13.291	91	5637305	25635.93 ug/L	100 OC
22] 1,3,5-Trimethylbenzene	14.855	105	1694379	7803.78 ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	3967694	17825.36 ug/L	100
24] Naphthalene	17.662	128	7971	24.18 ug/L	92
25) 2-Fluorotoluene SCAN	10.490	109	654886	4651.29 ug/L	73
27) trans-1,2-Dichloroethe...	3.895	61	51987	822.31 ug/L #	64
29) cis-1,2-Dichloroethene...	5.573	61	674898	9253.95 ug/L	89
30) Chloroform SCAN	6.163	83	479922	7297.57 ug/L	90
32) Carbon tetrachloride SCAN	6.637	117	2218	44.52 ug/L #	76
33) Benzene SCAN	7.002	78	1160743	7787.51 ug/L	97
34) 1,2-Dichloroethane SCAN	7.160	62	16926	263.18 ug/L	72
35) Trichloroethene SCAN	8.071	130	2405136	69679.82 ug/L	98
36) Toluene-d8 SCAN	9.996	98	563994	4853.61 ug/L	95
37) Toluene SCAN	10.101	91	18469551	119170.56 ug/L	100
38) 1,1,2-Trichloroethane ...	10.805	97	53275	1526.28 ug/L #	11
39) Tetrachloroethene SCAN	10.920	166	2470302	77748.01 ug/L	96
42) Ethylbenzene SCAN	12.487	91	4926852	28390.71 ug/L	98
43) m&p-Xylene SCAN	12.678	91	13103673	48362.11 ug/L	98
44) o-Xylene SCAN	13.290	91	3460871	24804.88 ug/L	95
45) 1,1,2,2-Tetrachloroeth...	14.427	83	2040	32.32 ug/L #	1
46) 1,3,5-Trimethylbenzene...	14.853	105	988283	7467.39 ug/L	97
47) 1,2,4-Trimethylbenzene...	15.444	105	2318226	16808.77 ug/L	98
48) Naphthalene SCAN	17.665	128	5560	29.23 ug/L	75

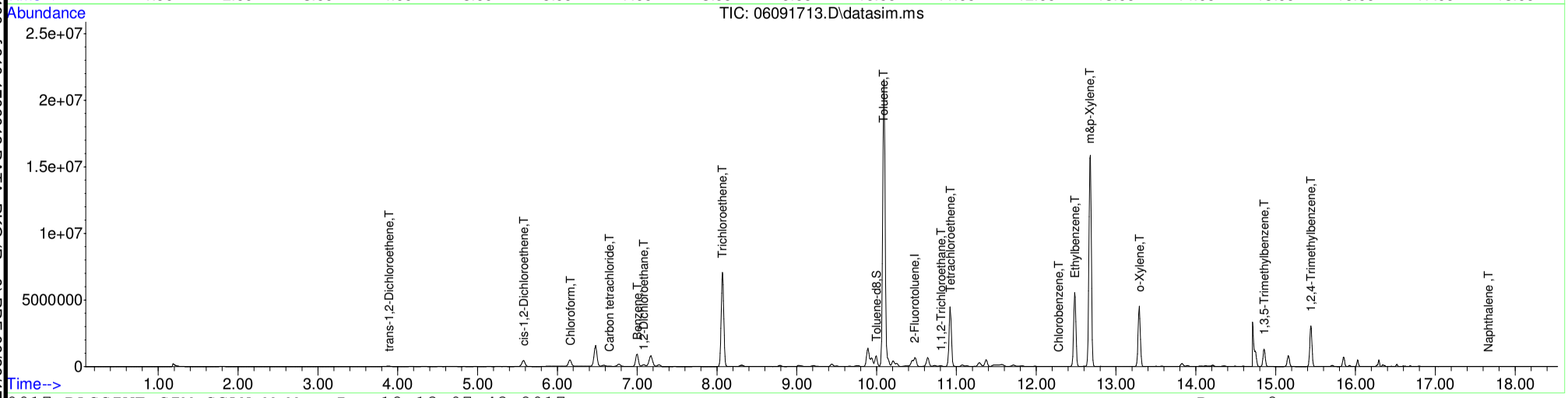
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091713.D
Acq On : 9 Jun 2017 15:18
InstName : AG5975C
Operator : RH
Sample : 1706012-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 09 16:57:33 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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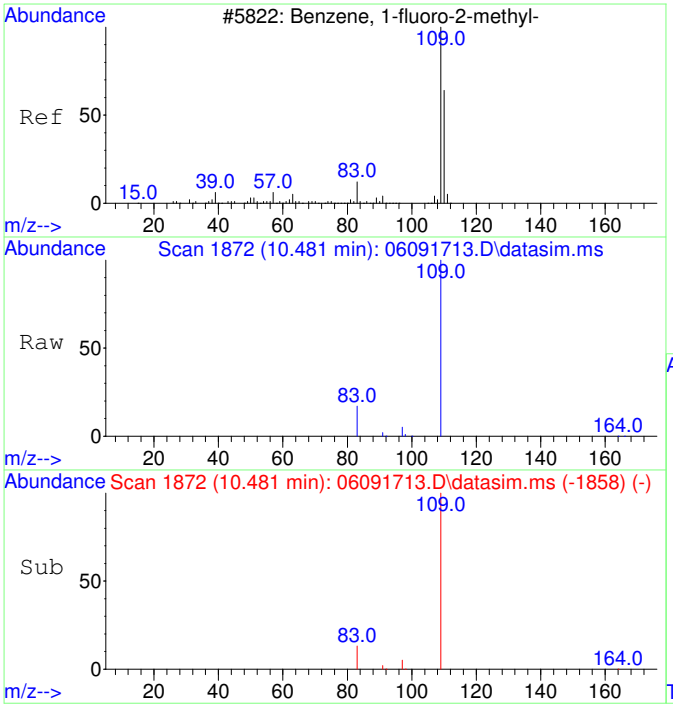
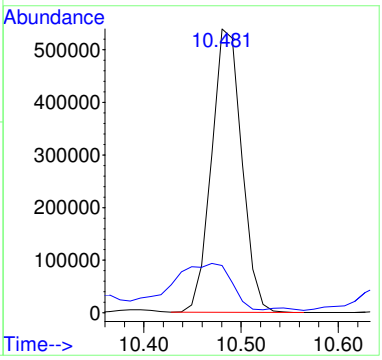
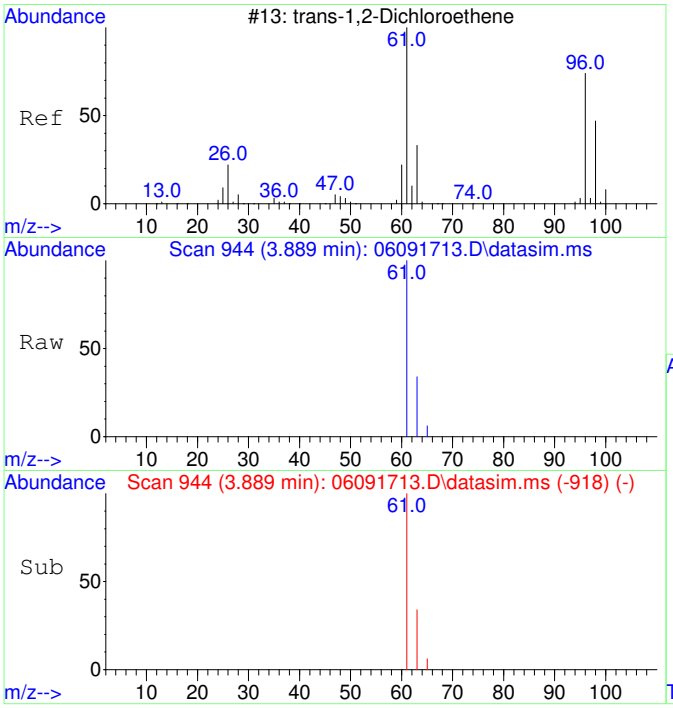


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.481 min Scan# 1872
Delta R.T. 0.001 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:109 Resp: 1161275

Ion	Ratio	Lower	Upper
109	100		
83	24.2	0.0	44.4

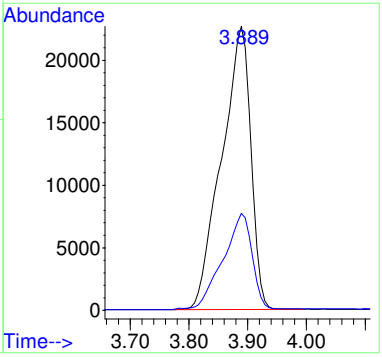




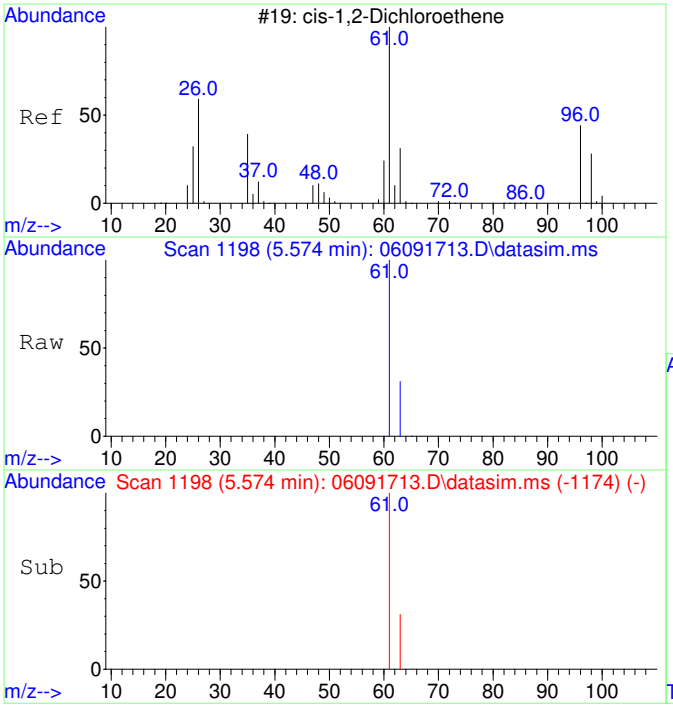
#3
trans-1,2-Dichloroethene
Concen: 785.57 ug/L
RT: 3.889 min Scan# 944
Delta R.T. 0.020 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 61 Resp: 77979

Ion	Ratio	Lower	Upper
61	100		
63	32.7	1.0	61.0



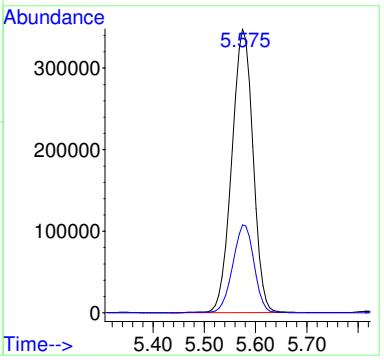
#2 Less than one half QL RH 6/12/17

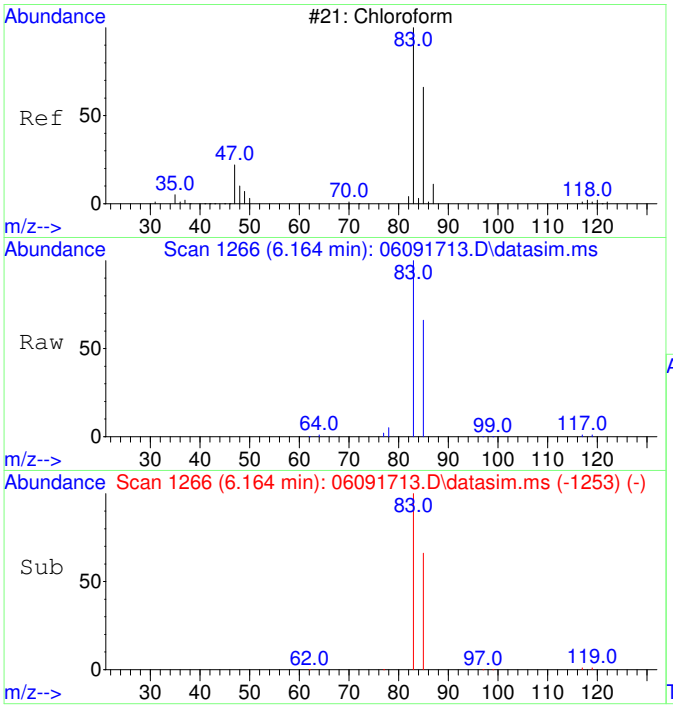


#5
cis-1,2-Dichloroethene
Concen: 9774.61 ug/L
RT: 5.574 min Scan# 1198
Delta R.T. 0.007 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 61 Resp: 999709

Ion	Ratio	Lower	Upper
61	100		
63	30.7	0.9	60.9

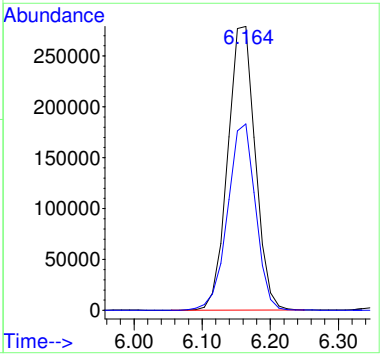


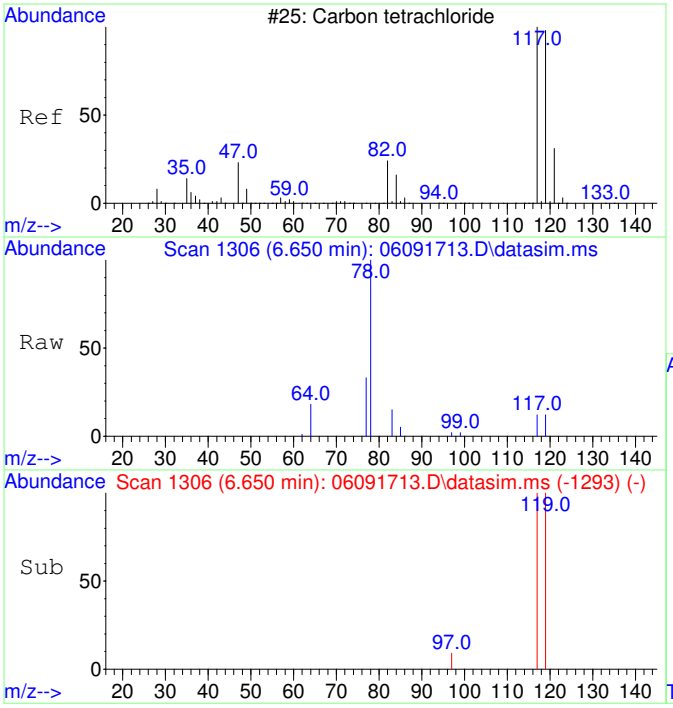


#6
Chloroform
Concen: 7878.26 ug/L
RT: 6.164 min Scan# 1266
Delta R.T. 0.012 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 83 Resp: 779694

Ion	Ratio	Lower	Upper
83	100		
85	66.2	33.7	93.7

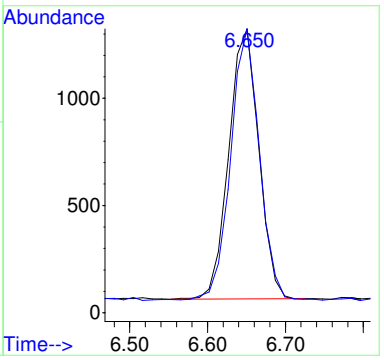


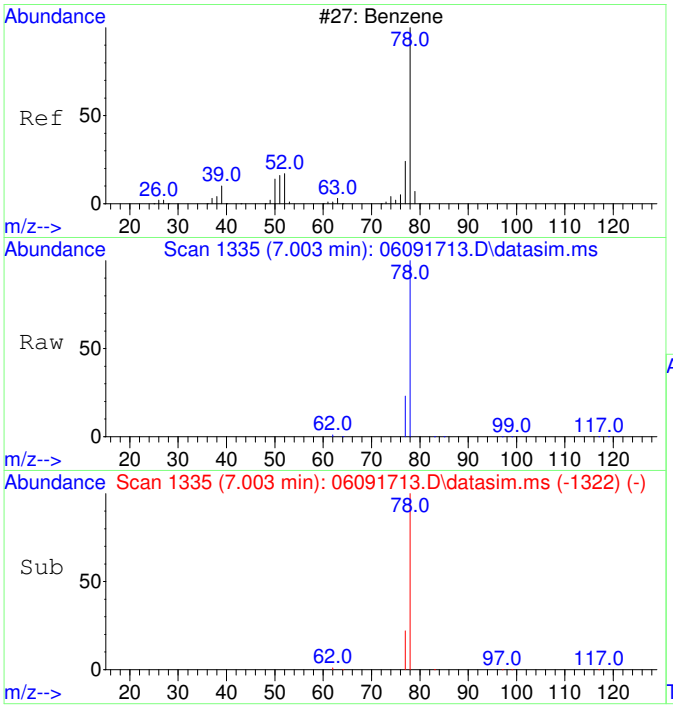


#8
Carbon tetrachloride
Concen: 42.98 ug/L
RT: 6.650 min Scan# 1306
Delta R.T. 0.012 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:117 Resp: 3370

Ion	Ratio	Lower	Upper
117	100		
119	95.2	65.5	125.5

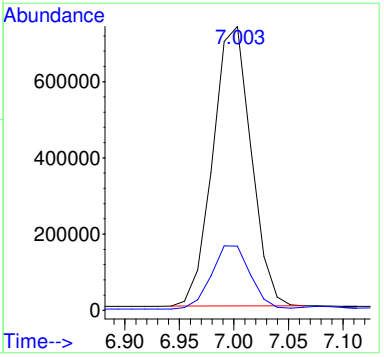


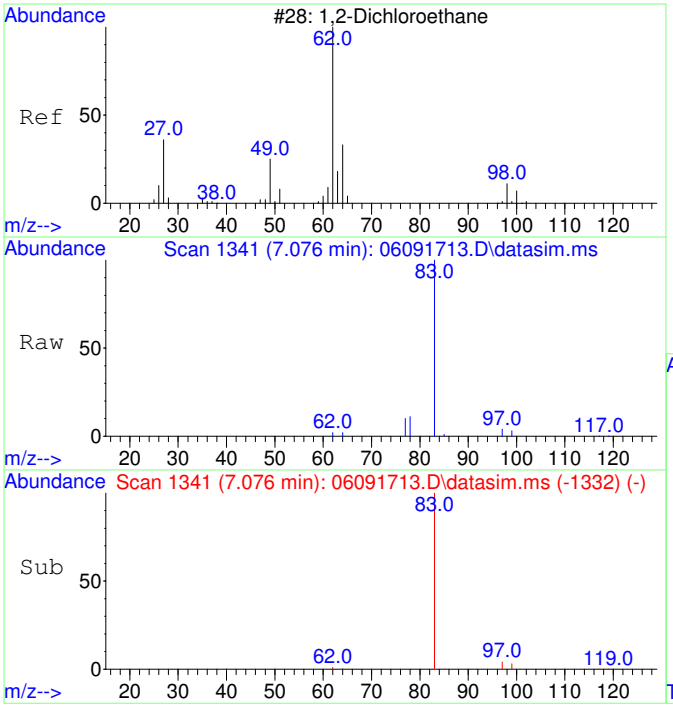


#9
Benzene
Concen: 7779.01 ug/L
RT: 7.003 min Scan# 1335
Delta R.T. 0.012 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 78 Resp: 1792864

Ion	Ratio	Lower	Upper
78	100		
77	22.7	0.0	53.0

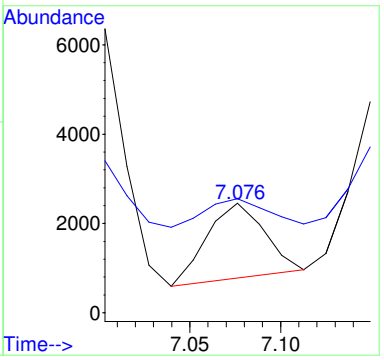


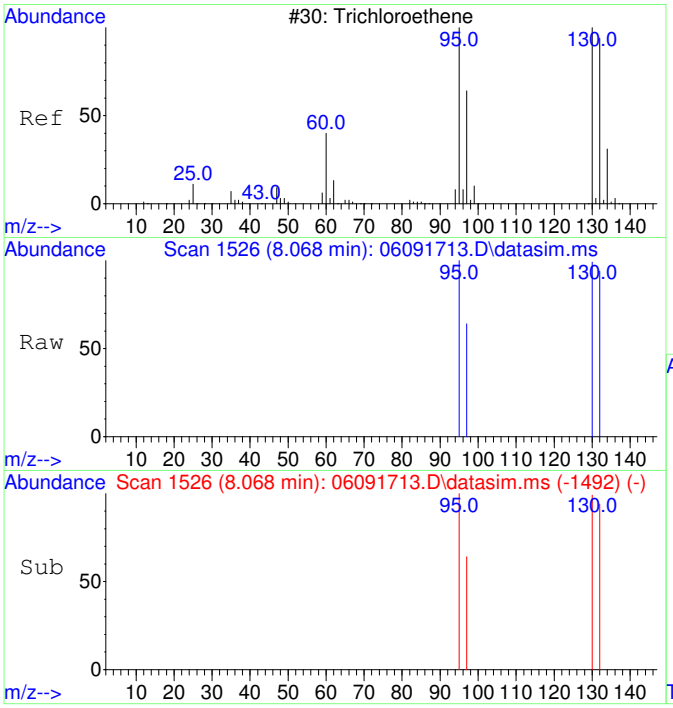


#10
1,2-Dichloroethane
Concen: 44.85 ug/L
RT: 7.076 min Scan# 1341
Delta R.T. 0.012 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 62 Resp: 3830

Ion	Ratio	Lower	Upper
62	100		
64	35.7	2.6	62.6

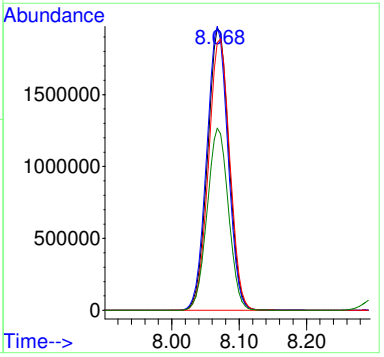


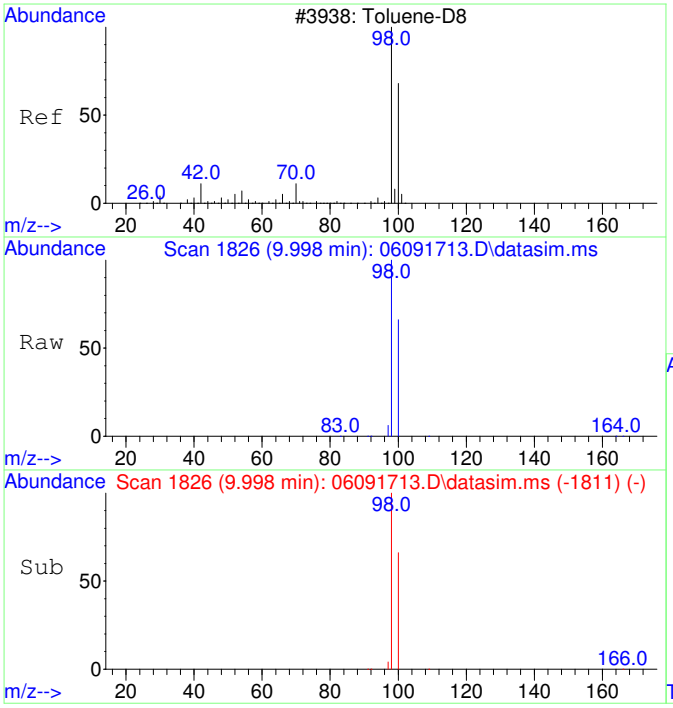


#11
Trichloroethene
Concen: 72834.84 ug/L
RT: 8.068 min Scan# 1526
Delta R.T. 0.005 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:130 Resp: 4317147

Ion	Ratio	Lower	Upper
130	100		
95	100.2	69.8	129.8
132	96.1	76.4	116.4
97	64.4	44.3	84.3

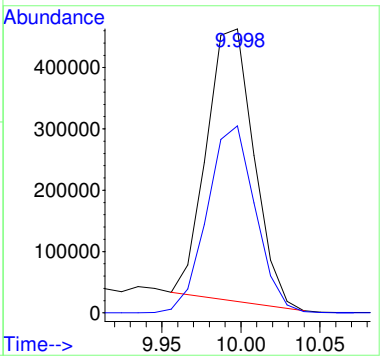


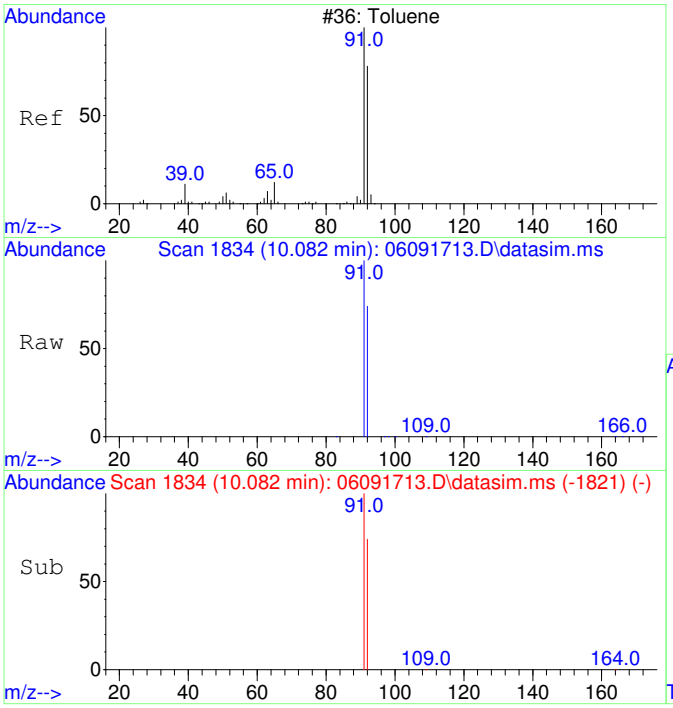


#12
Toluene-d8
Concen: 4823.58 ug/L
RT: 9.998 min Scan# 1826
Delta R.T. 0.011 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 98 Resp: 917352

Ion	Ratio	Lower	Upper
98	100		
100	70.5	34.2	94.2

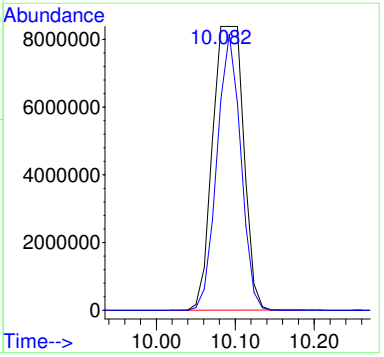


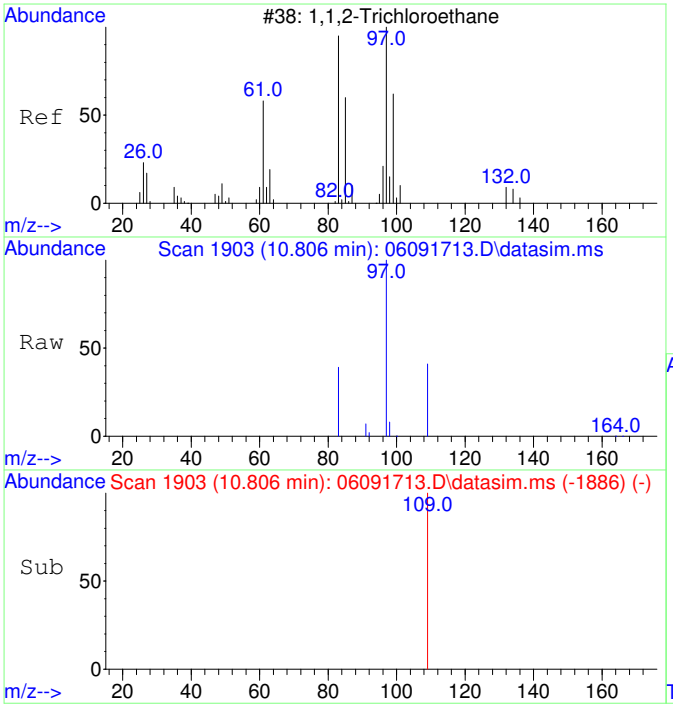


#13
Toluene
Concen: 90961.56 ug/L
RT: 10.082 min Scan# 1834
Delta R.T. -0.010 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp:22908581

Ion	Ratio	Lower	Upper
91	100		
92	74.0	28.4	88.4

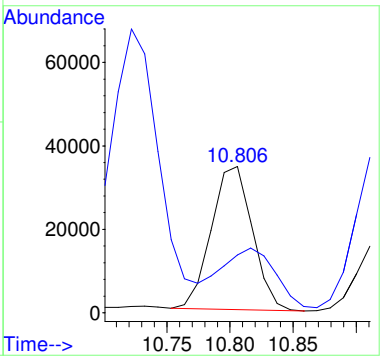


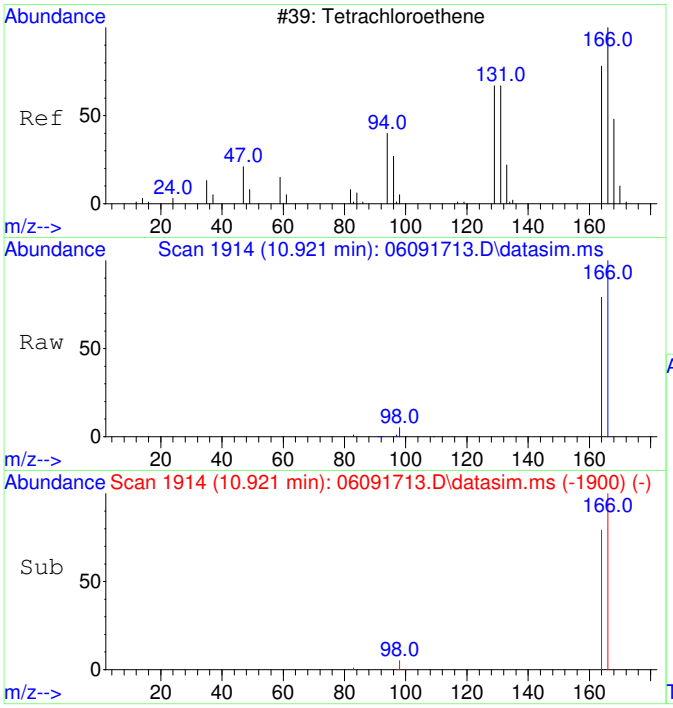


#14
1,1,2-Trichloroethane
Concen: 1440.05 ug/L
RT: 10.806 min Scan# 1903
Delta R.T. 0.032 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 97 Resp: 77554

Ion	Ratio	Lower	Upper
97	100		
83	35.1	54.5	114.5#

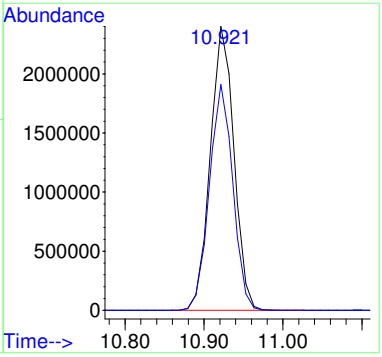


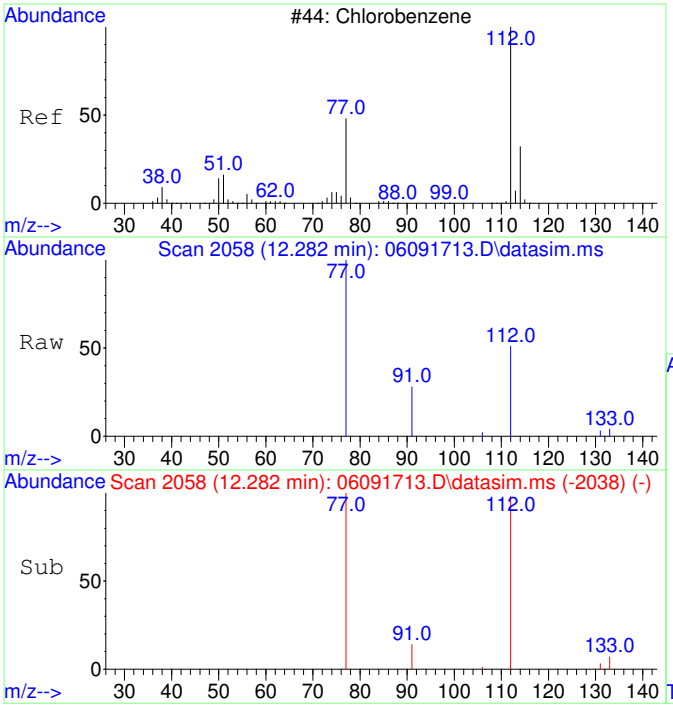


#15
Tetrachloroethene
Concen: 77302.98 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:166 Resp: 4989997

Ion	Ratio	Lower	Upper
166	100		
164	78.4	48.1	108.1

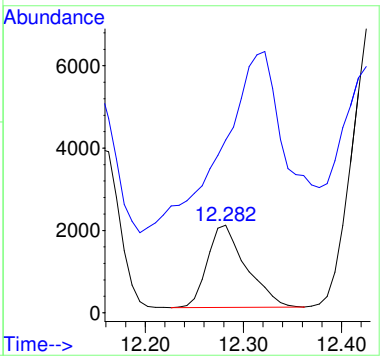


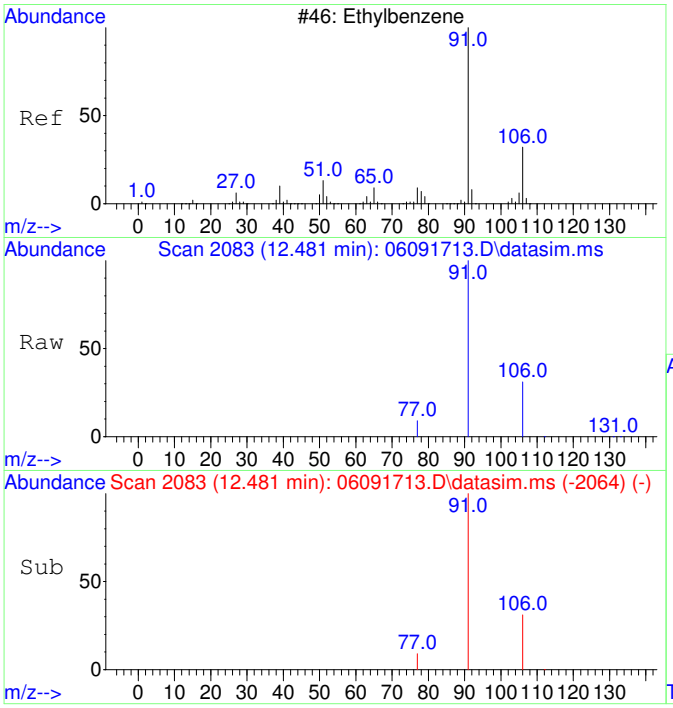


#16
Chlorobenzene
Concen: 34.04 ug/L
RT: 12.282 min Scan# 2058
Delta R.T. 0.008 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:112 Resp: 5446

Ion	Ratio	Lower	Upper
112	100		
77	0.0	28.9	88.9#

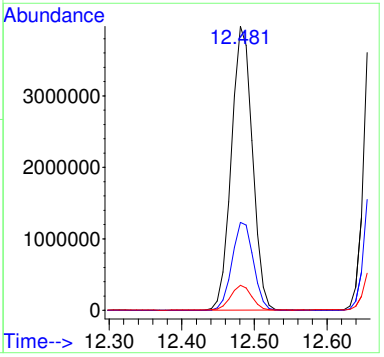


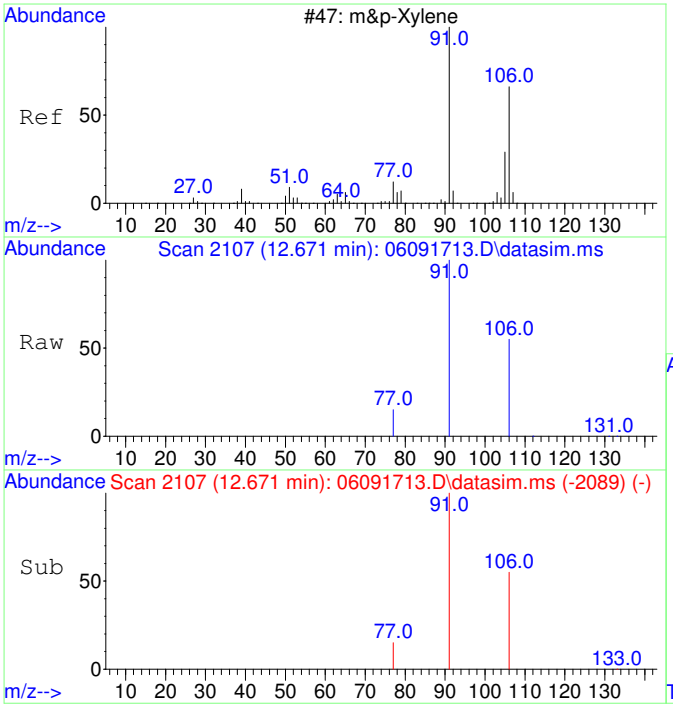


#18
Ethylbenzene
Concen: 29408.97 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp: 7971079

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.2	61.2
77	8.6	0.0	38.6

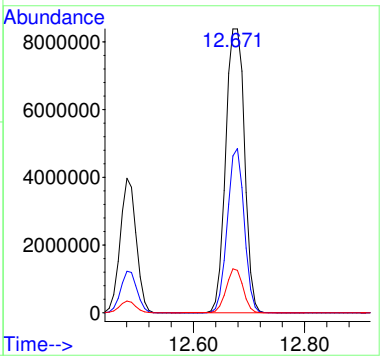


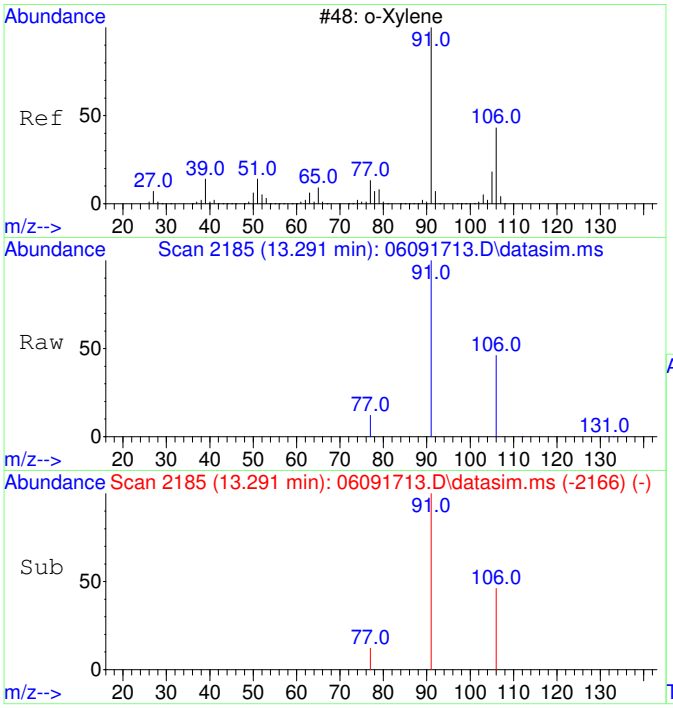


#19
m&p-Xylene
Concen: 92690.09 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp:19708397

Ion	Ratio	Lower	Upper
91	100		
106	51.7	18.4	78.4
77	13.8	0.0	43.1

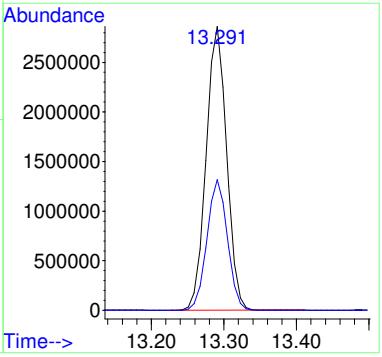


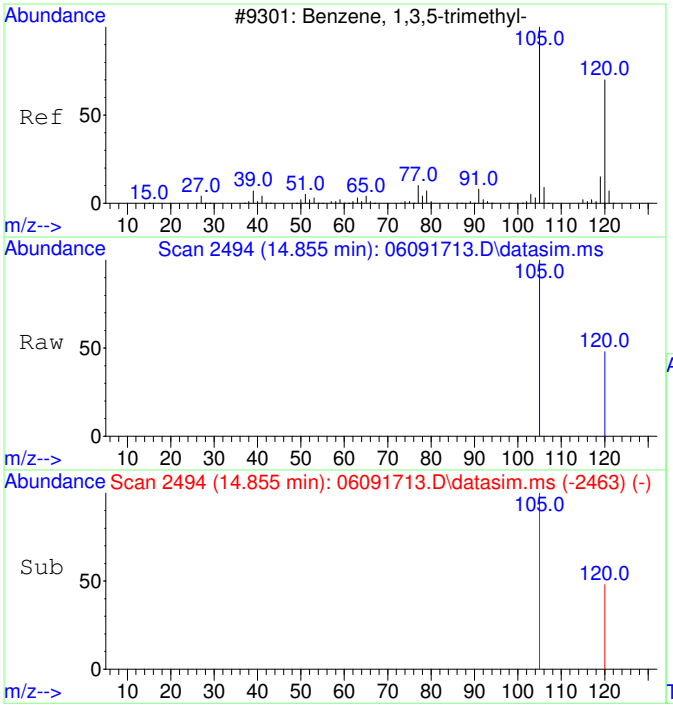


#20
o-Xylene
Concen: 25635.93 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp: 5637305

Ion	Ratio	Lower	Upper
91	100		
106	45.7	16.0	76.0

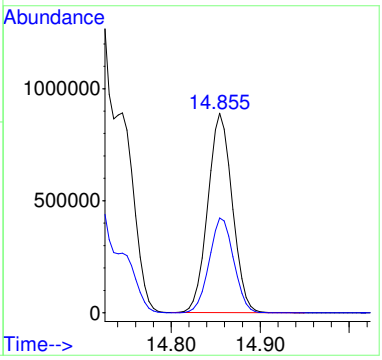


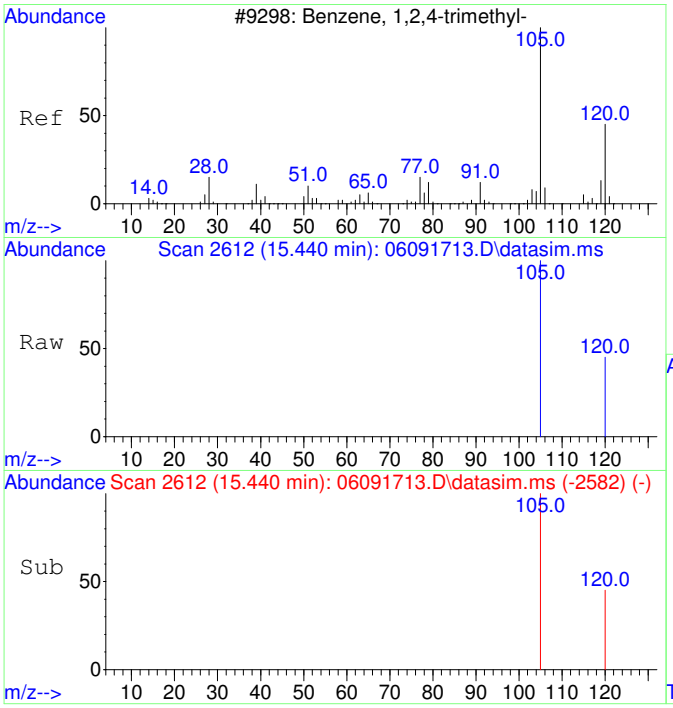


#22
1,3,5-Trimethylbenzene
Concen: 7803.78 ug/L
RT: 14.855 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:105 Resp: 1694379

Ion	Ratio	Lower	Upper
105	100		
120	47.6	18.0	78.0

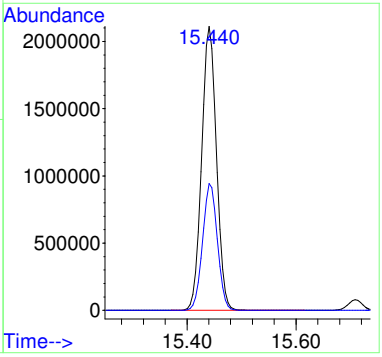


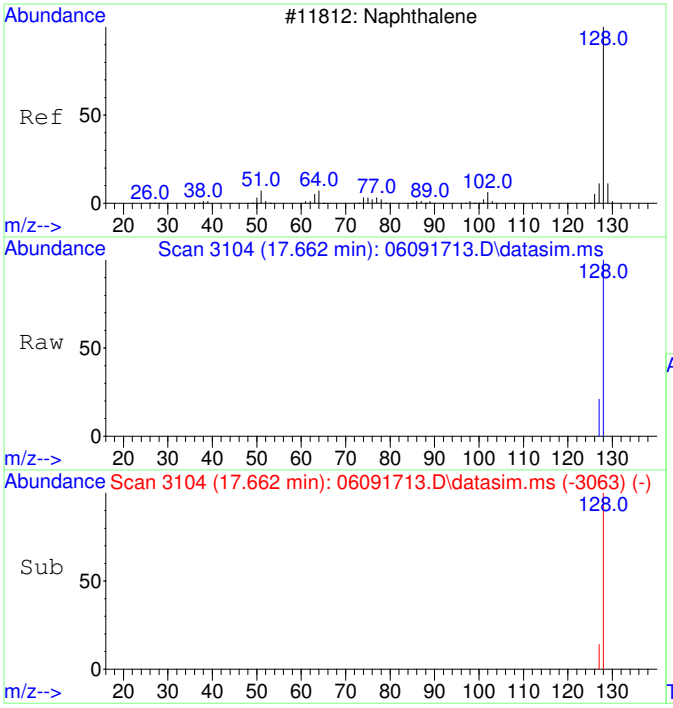


#23
1,2,4-Trimethylbenzene
Concen: 17825.36 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:105 Resp: 3967694

Ion	Ratio	Lower	Upper
105	100		
120	44.6	14.4	74.4

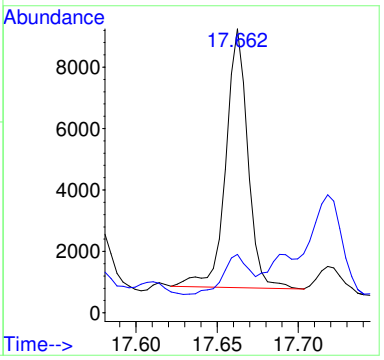


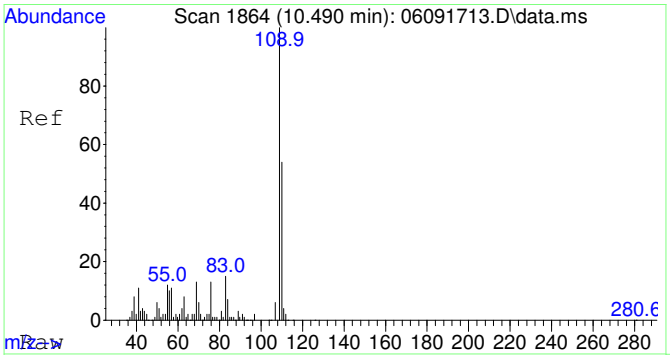


#24
Naphthalene
Concen: 24.18 ug/L
RT: 17.662 min Scan# 3104
Delta R.T. 0.001 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:128 Resp: 7971

Ion	Ratio	Lower	Upper
128	100		
127	9.5	0.0	42.7

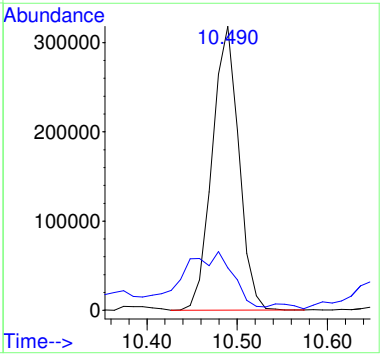


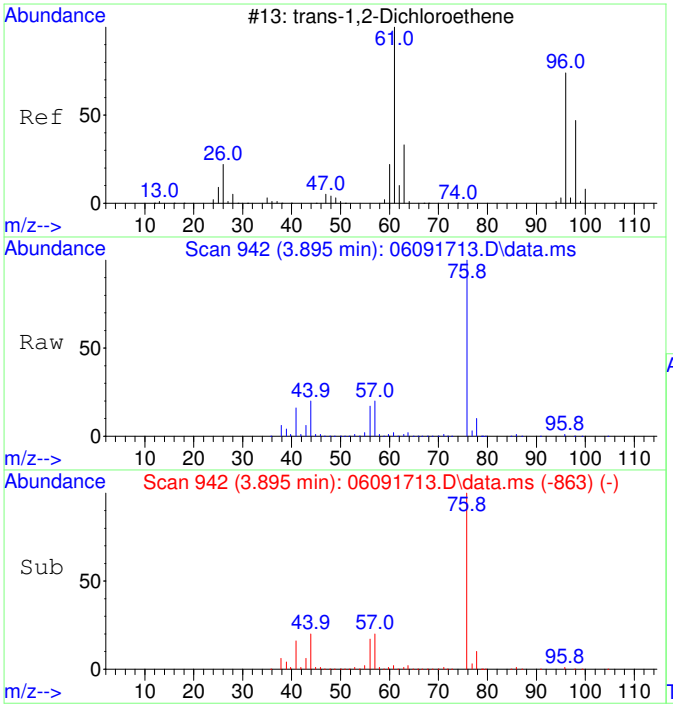


#25
2-Fluorotoluene SCAN
Concen: 4651.29 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:109 Resp: 654886

Ion	Ratio	Lower	Upper
109	100		
83	27.6	0.0	46.1

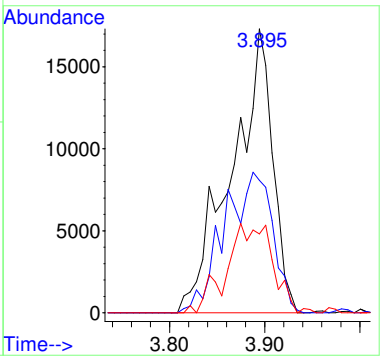


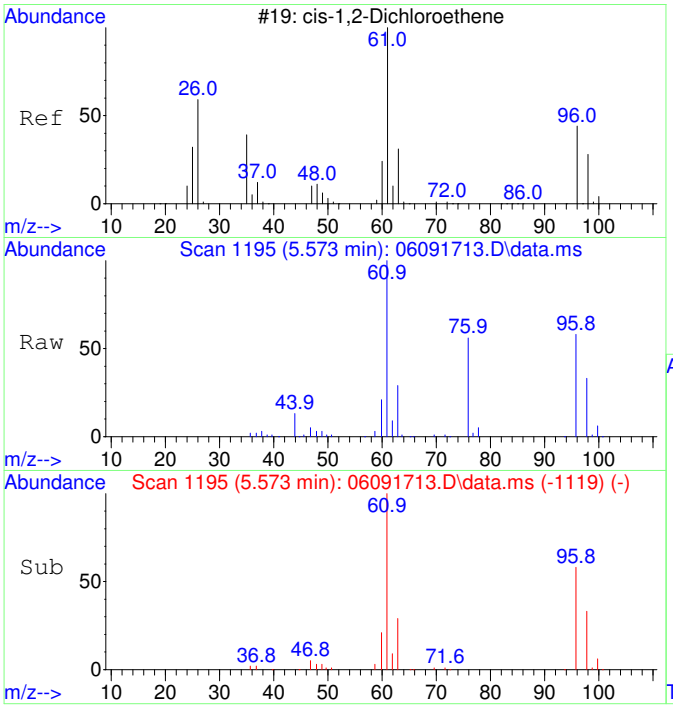


#27
trans-1,2-Dichloroethene SCAN
Concen: 822.31 ug/L
RT: 3.895 min Scan# 942
Delta R.T. 0.027 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 61 Resp: 51987

Ion	Ratio	Lower	Upper
61	100		
96	14.3	26.1	86.1#
98	35.4	4.4	64.4

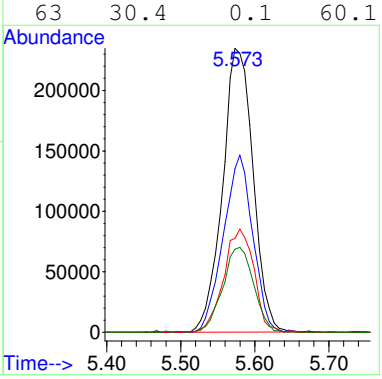


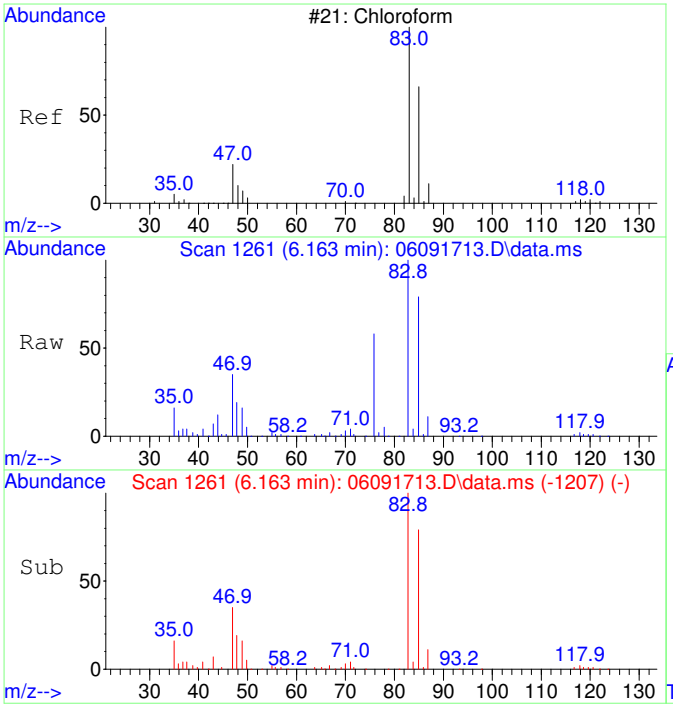


#29
cis-1,2-Dichloroethene SCAN
Concen: 9253.95 ug/L
RT: 5.573 min Scan# 1195
Delta R.T. 0.007 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 61 Resp: 674898

Ion	Ratio	Lower	Upper
61	100		
96	60.3	17.5	77.5
98	36.0	1.9	61.9
63	30.4	0.1	60.1

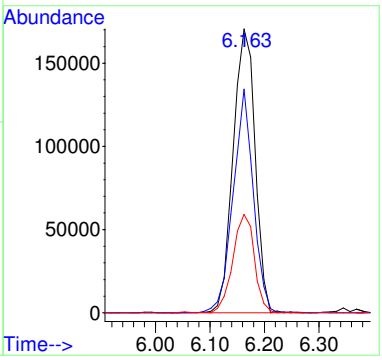


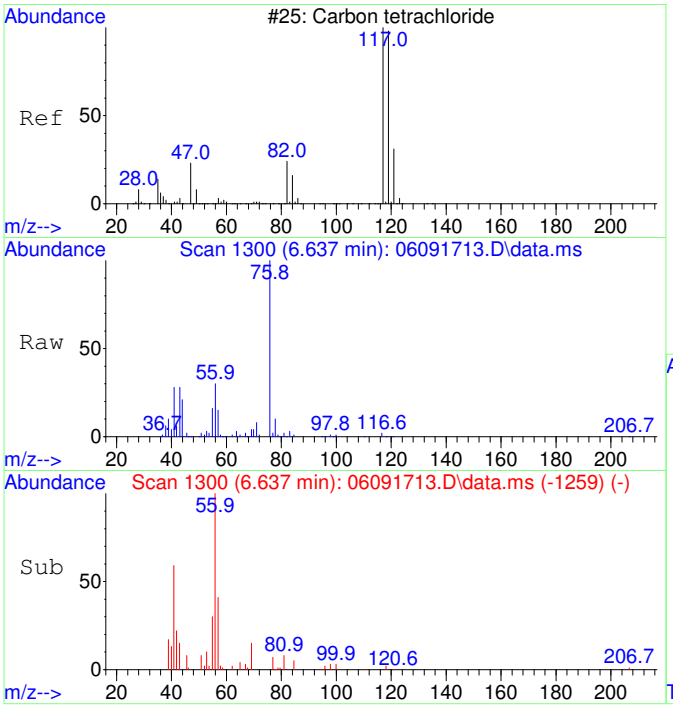


#30
Chloroform SCAN
Concen: 7297.57 ug/L
RT: 6.163 min Scan# 1261
Delta R.T. 0.012 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 83 Resp: 479922

Ion	Ratio	Lower	Upper
83	100		
85	72.4	31.2	91.2
47	33.8	3.2	63.2

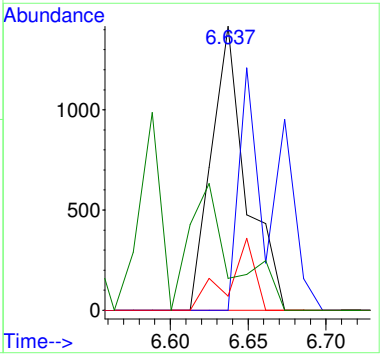


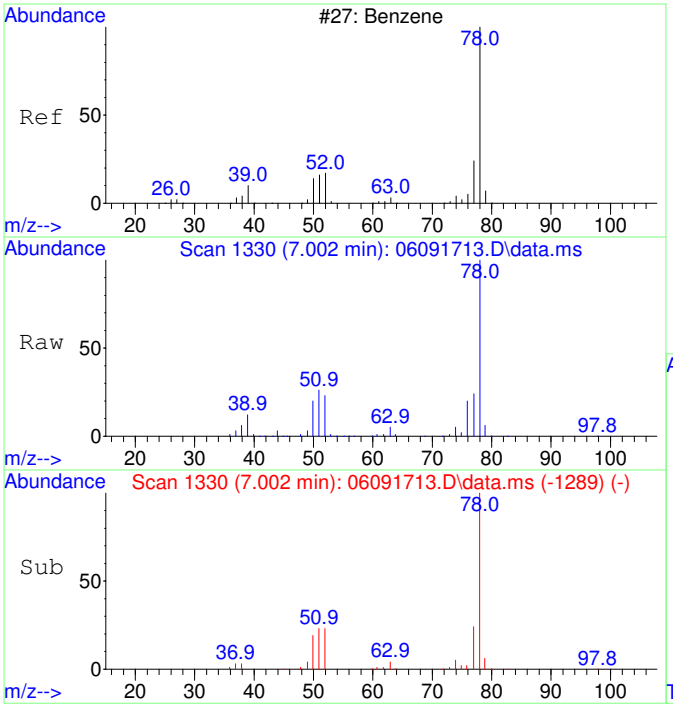


#32
Carbon tetrachloride SCAN
Concen: 44.52 ug/L
RT: 6.637 min Scan# 1300
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:117 Resp: 2218

Ion	Ratio	Lower	Upper
117	100		
119	84.0	66.8	126.8
121	19.3	0.4	60.4
82	0.0	2.6	62.6#

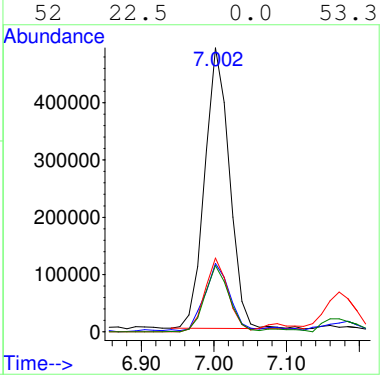


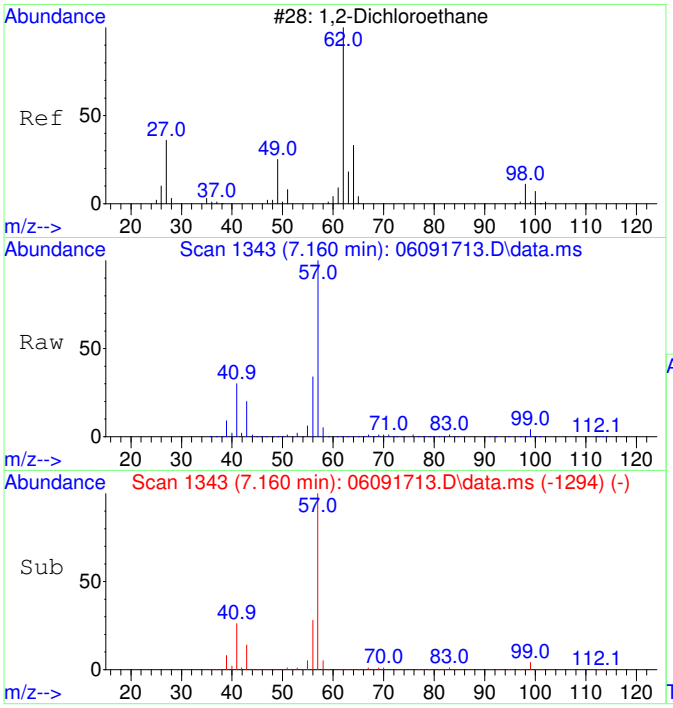


#33
Benzene SCAN
Concen: 7787.51 ug/L
RT: 7.002 min Scan# 1330
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 78 Resp: 1160743

Ion	Ratio	Lower	Upper
78	100		
77	23.2	0.0	55.2
51	23.8	0.0	52.4
52	22.5	0.0	53.3

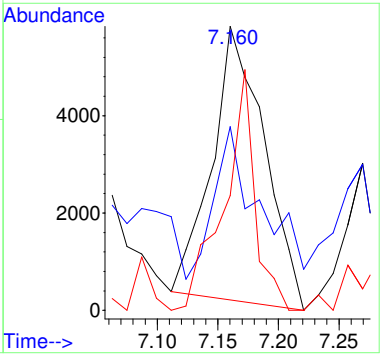


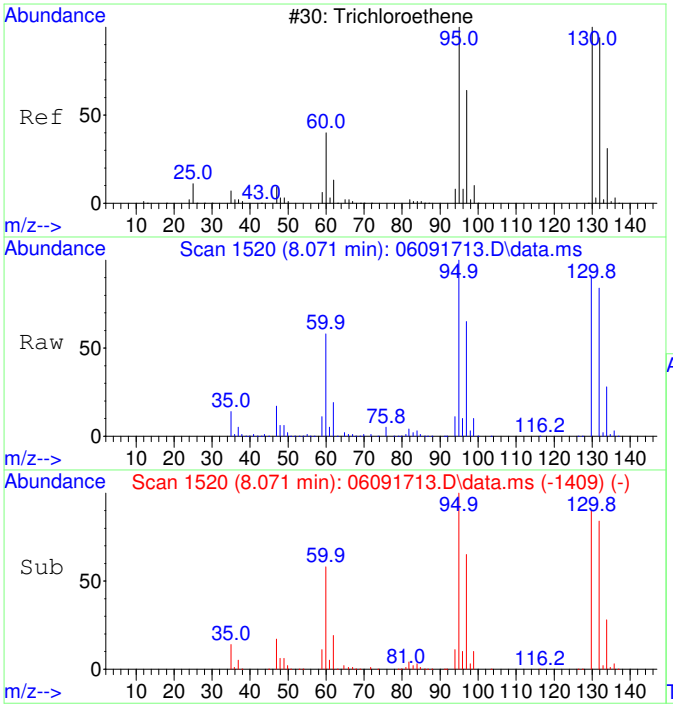


#34
1,2-Dichloroethane SCAN
Concen: 263.18 ug/L
RT: 7.160 min Scan# 1343
Delta R.T. 0.097 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 62 Resp: 16926

Ion	Ratio	Lower	Upper
62	100		
64	44.0	7.4	67.4
49	51.7	0.0	54.8

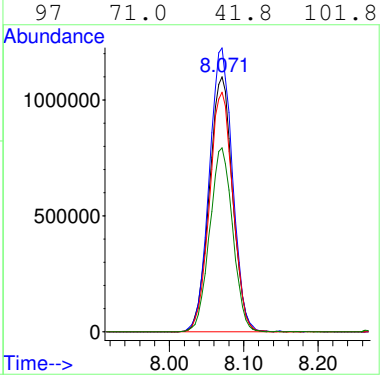


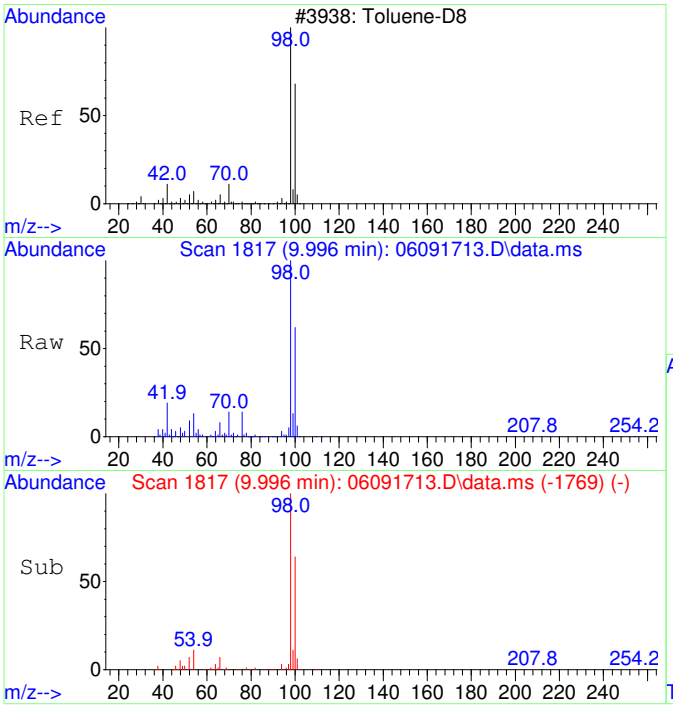


#35
Trichloroethene SCAN
Concen: 69679.82 ug/L
RT: 8.071 min Scan# 1520
Delta R.T. 0.009 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:130 Resp: 2405136

Ion	Ratio	Lower	Upper
130	100		
95	110.2	76.1	136.1
132	94.1	65.6	125.6
97	71.0	41.8	101.8

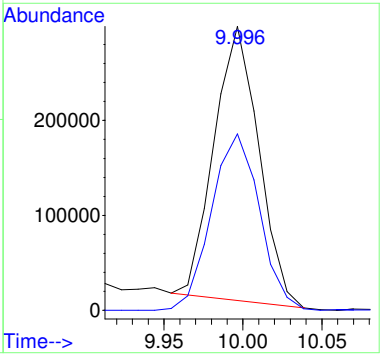


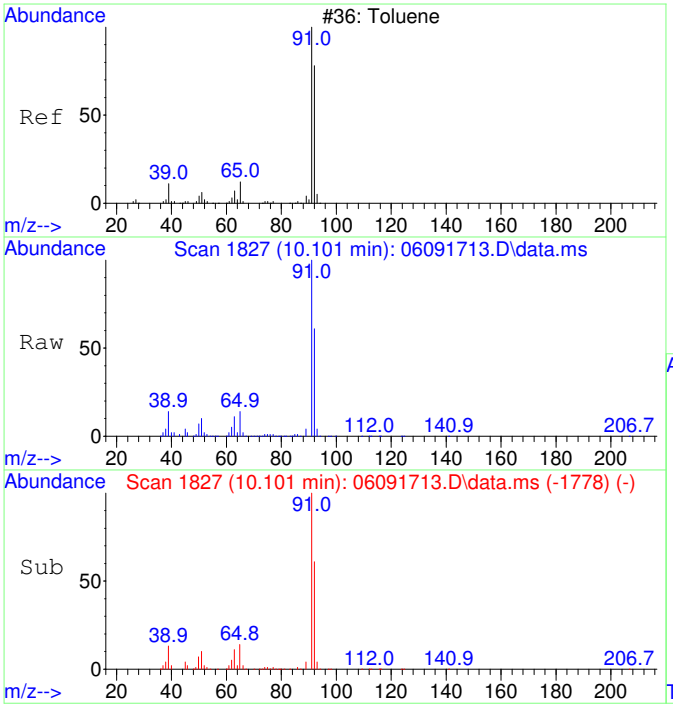


#36
Toluene-d8 SCAN
Concen: 4853.61 ug/L
RT: 9.996 min Scan# 1817
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 98 Resp: 563994

Ion	Ratio	Lower	Upper
98	100		
100	70.1	36.2	96.2

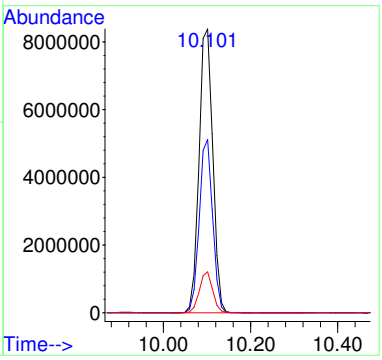


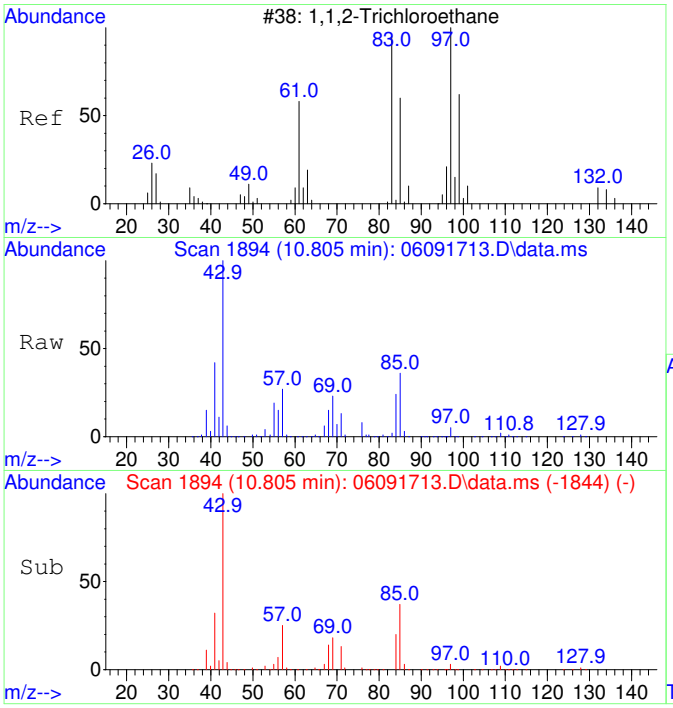


#37
Toluene SCAN
Concen: 119170.56 ug/L
RT: 10.101 min Scan# 1827
Delta R.T. 0.011 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp:18469551

Ion	Ratio	Lower	Upper
91	100		
92	59.3	29.2	89.2
65	14.0	0.0	44.3

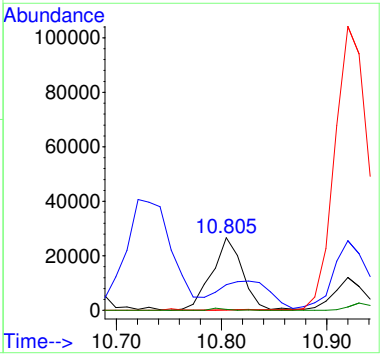


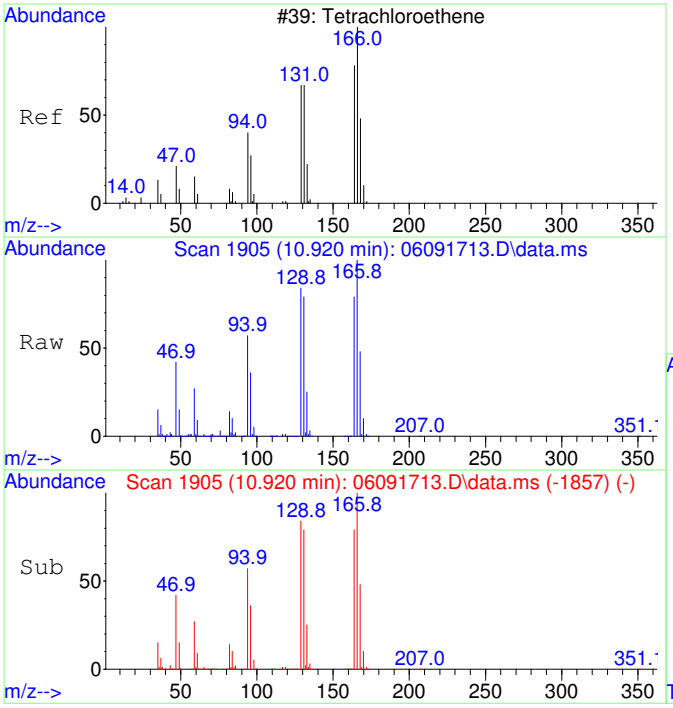


#38
1,1,2-Trichloroethane SCAN
Concen: 1526.28 ug/L
RT: 10.805 min Scan# 1894
Delta R.T. 0.021 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 97 Resp: 53275

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.8	117.8#
61	0.0	48.6	108.6#
99	1.6	32.7	92.7#

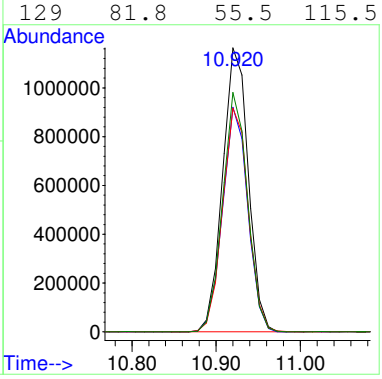


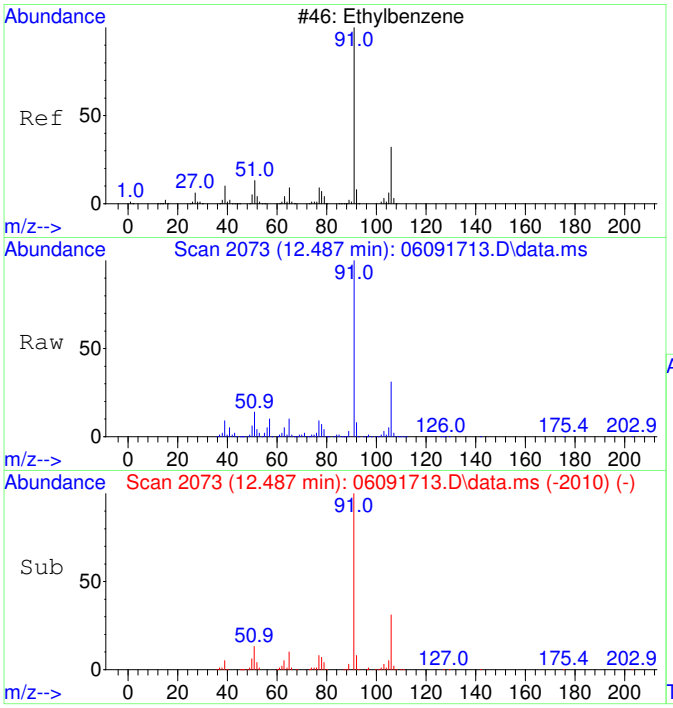


#39
Tetrachloroethene SCAN
Concen: 77748.01 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:166 Resp: 2470302

Ion	Ratio	Lower	Upper
166	100		
164	77.5	45.7	105.7
131	78.6	44.8	104.8
129	81.8	55.5	115.5

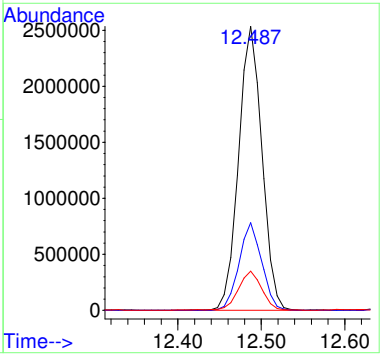


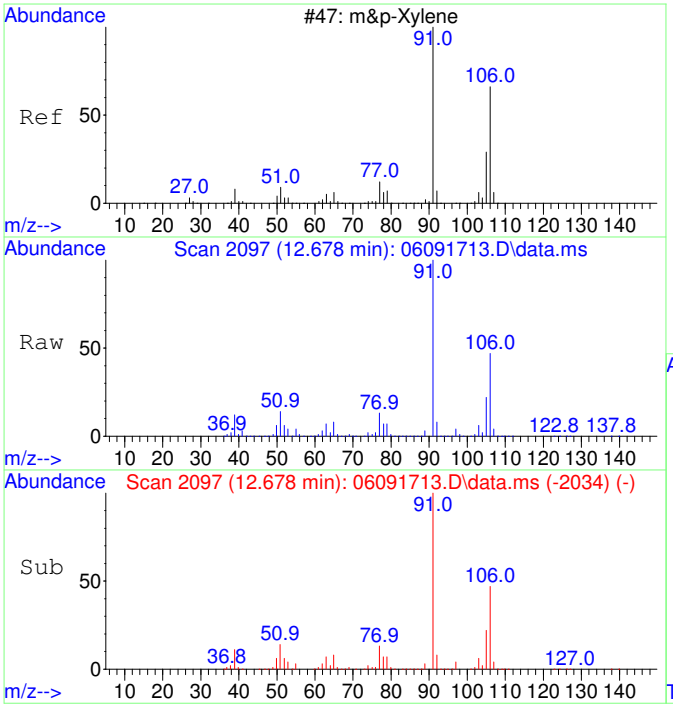


#42
Ethylbenzene SCAN
Concen: 28390.71 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp: 4926852

Ion	Ratio	Lower	Upper
91	100		
106	30.0	0.0	59.8
51	14.0	0.0	45.5

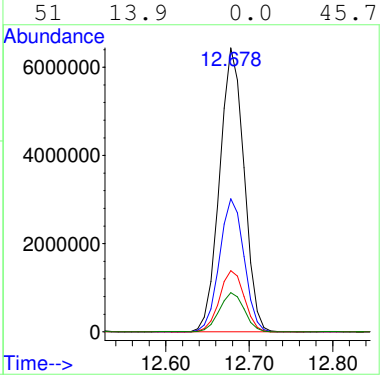


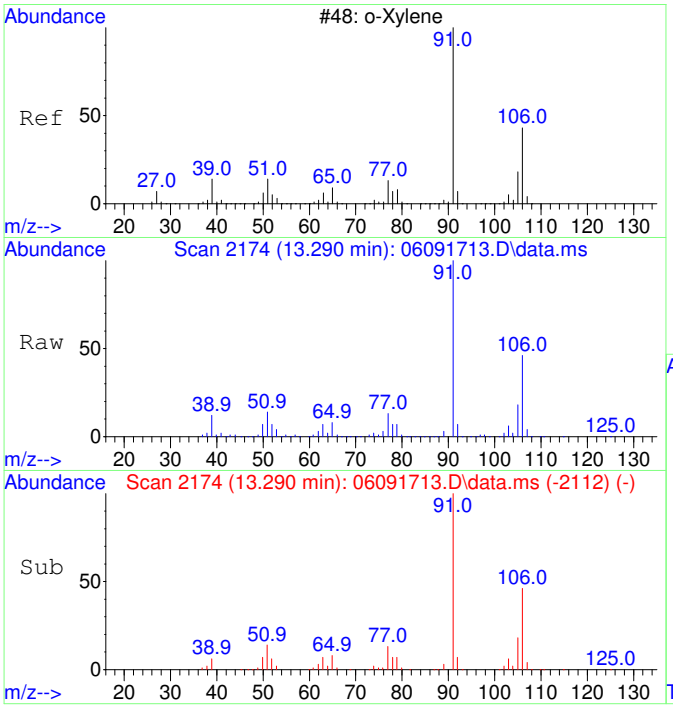


#43
m&p-Xylene SCAN
Concen: 48362.11 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp:13103673

Ion	Ratio	Lower	Upper
91	100		
106	47.2	18.5	78.5
105	21.9	0.0	51.3
51	13.9	0.0	45.7

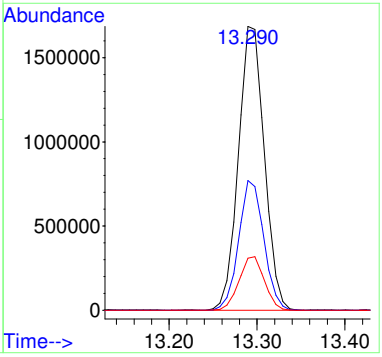


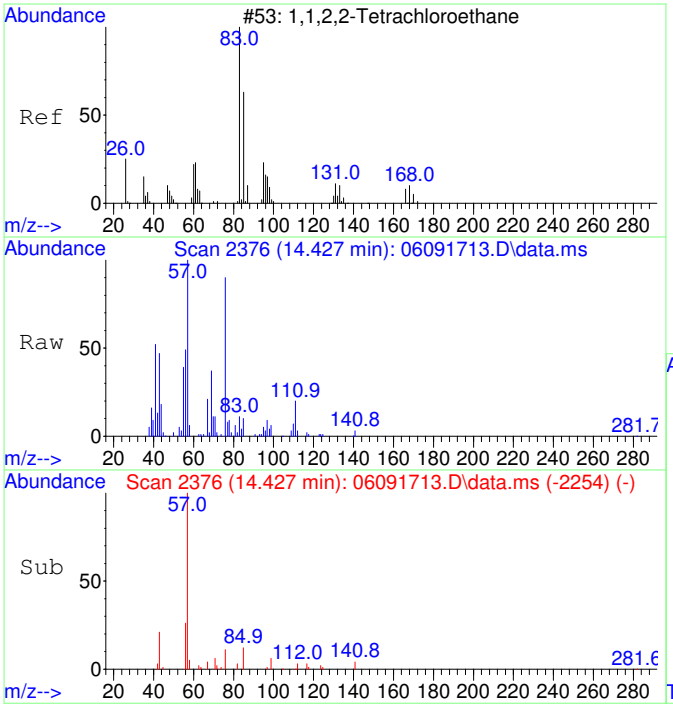


#44
o-Xylene SCAN
Concen: 24804.88 ug/L
RT: 13.290 min Scan# 2174
Delta R.T. -0.008 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 91 Resp: 3460871

Ion	Ratio	Lower	Upper
91	100		
106	44.3	15.5	75.5
105	18.5	0.0	54.1

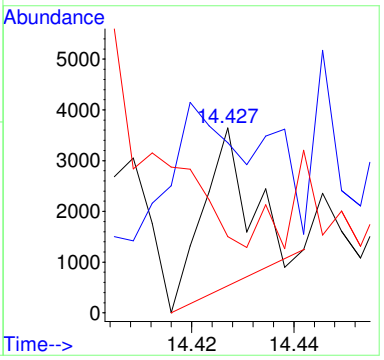


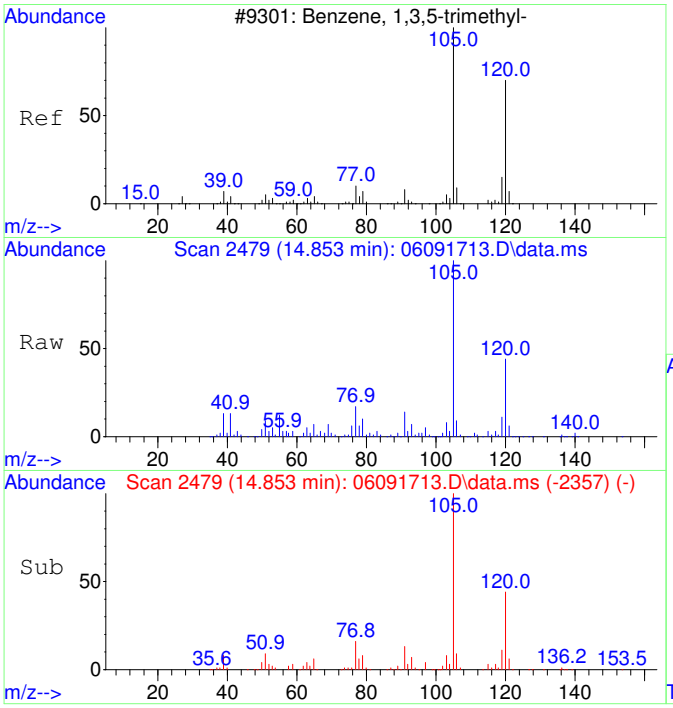


#45
1,1,2,2-Tetrachloroethane SCAN
Concen: 32.32 ug/L
RT: 14.427 min Scan# 2376
Delta R.T. -0.000 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion: 83 Resp: 2040

Ion	Ratio	Lower	Upper
83	100		
85	186.2	33.9	93.9#
95	0.0	0.0	46.3

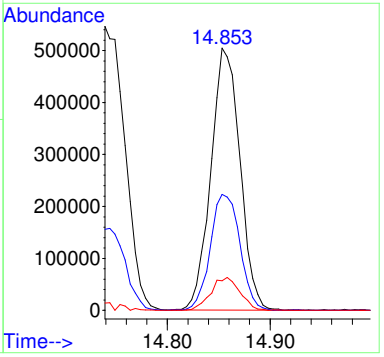


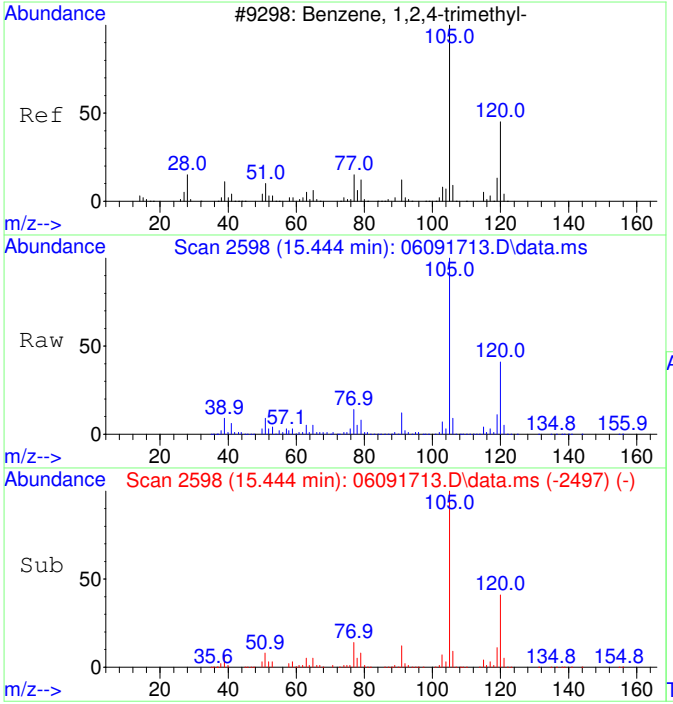


#46
1,3,5-Trimethylbenzene SCAN
Concen: 7467.39 ug/L
RT: 14.853 min Scan# 2479
Delta R.T. -0.004 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:105 Resp: 988283

Ion	Ratio	Lower	Upper
105	100		
120	45.0	17.3	77.3
119	12.5	0.0	42.7

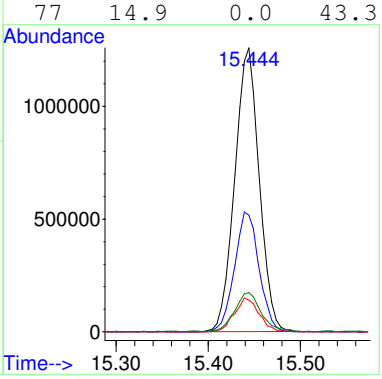


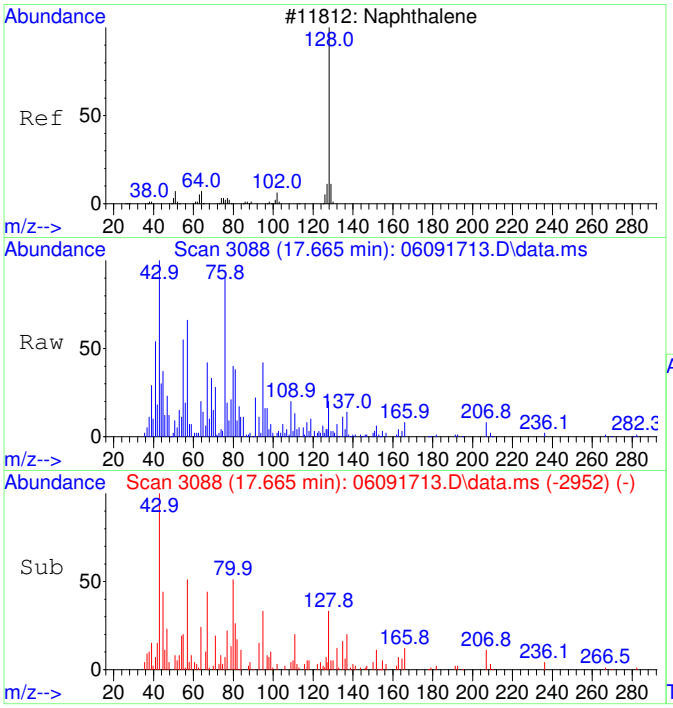


#47
1,2,4-Trimethylbenzene SCAN
Concen: 16808.77 ug/L
RT: 15.444 min Scan# 2598
Delta R.T. 0.001 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:105 Resp: 2318226

Ion	Ratio	Lower	Upper
105	100		
120	42.4	12.9	72.9
119	12.0	0.0	40.5
77	14.9	0.0	43.3

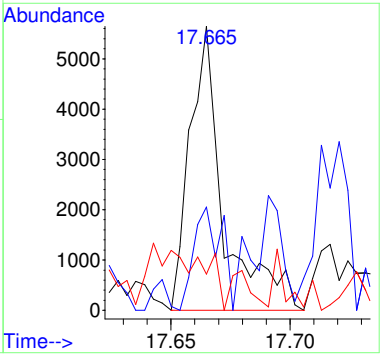




#48
Naphthalene SCAN
Concen: 29.23 ug/L
RT: 17.665 min Scan# 3088
Delta R.T. 0.005 min
Lab File: 06091713.D
Acq: 9 Jun 2017 15:18

Tgt Ion:128 Resp: 5560

Ion	Ratio	Lower	Upper
128	100		
127	29.5	0.0	43.9
129	7.8	0.0	41.0



1706012-06

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091714.D
Acq On : 9 Jun 2017 15:41
InstName : AG5975C
Operator : RH
Sample : 1706012-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 09 16:57:40 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

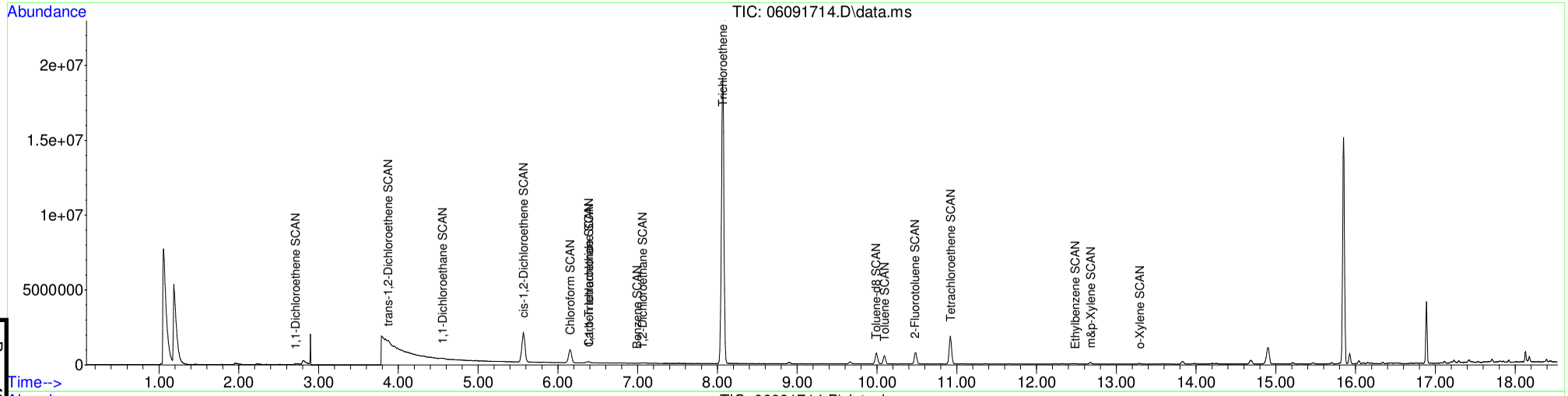
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)	
Internal Standards						
1) 2-Fluorotoluene	10.480	109	1056680	5000.00 ug/L	0.00	
System Monitoring Compounds						
12) Toluene-d8	9.987	98	893929	5165.69 ug/L	0.00	
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.31%			
Target Compounds					Qvalue	
2] 1,1-Dichloroethene	2.711	61	111593	1339.06 ug/L	100	
3] trans-1,2-Dichloroethene	3.869	61	176592	1955.10 ug/L	99	
4] 1,1-Dichloroethane	4.546	63	94741	973.10 ug/L	100	
5] cis-1,2-Dichloroethene	5.568	61	2602160	27960.91 ug/L	100	OC
6] Chloroform	6.152	83	1280582	14220.18 ug/L	99	
7] 1,1,1-Trichloroethane	6.383	97	113018	1366.47 ug/L	100	
8] Carbon tetrachloride	6.638	117	4927	69.06 ug/L	99	
9] Benzene	6.991	78	13865	66.11 ug/L	99	
10] 1,2-Dichloroethane	7.064	62	2079	26.76 ug/L	83	
11] Trichloroethene	8.067	130	11895607	220556.85 ug/L	100	OC
13] Toluene	10.081	91	724164	3160.01 ug/L	100	
15] Tetrachloroethene	10.921	166	1123964	19135.51 ug/L	100	
18] Ethylbenzene	12.480	91	43242	175.33 ug/L	100	
19] m&p-Xylene	12.671	91	110526	571.27 ug/L	100	
20] o-Xylene	13.290	91	47102	235.40 ug/L	100	
23] 1,2,4-Trimethylbenzene	15.464	105	8902	43.95 ug/L	58	
25) 2-Fluorotoluene SCAN	10.479	109	598147	4668.82 ug/L	99	
26) 1,1-Dichloroethene SCAN	2.709	61	48511	899.95 ug/L #	64	
27) trans-1,2-Dichloroethe...	3.874	61	119011	2068.79 ug/L	96	
28) 1,1-Dichloroethane SCAN	4.551	63	60730	925.94 ug/L	89	
29) cis-1,2-Dichloroethene...	5.566	61	1793992	27033.43 ug/L	91	
30) Chloroform SCAN	6.150	83	835548	13962.73 ug/L	97	
31) 1,1,1-Trichloroethane ...	6.381	97	72624	1474.71 ug/L	95	
32) Carbon tetrachloride SCAN	6.381	117	9708	214.14 ug/L	93	
33) Benzene SCAN	6.990	78	16179	119.29 ug/L	75	
34) 1,2-Dichloroethane SCAN	7.063	62	2188	37.39 ug/L #	1	
35) Trichloroethene SCAN	8.066	130	6702212	213391.51 ug/L	97	
36) Toluene-d8 SCAN	9.986	98	531916	5030.66 ug/L	96	
37) Toluene SCAN	10.091	91	437492	3102.23 ug/L	98	
39) Tetrachloroethene SCAN	10.920	166	563627	19494.97 ug/L	96	
42) Ethylbenzene SCAN	12.487	91	26763	169.49 ug/L	95	
43) m&p-Xylene SCAN	12.677	91	73263	297.16 ug/L	98	
44) o-Xylene SCAN	13.289	91	28573	225.06 ug/L	93	

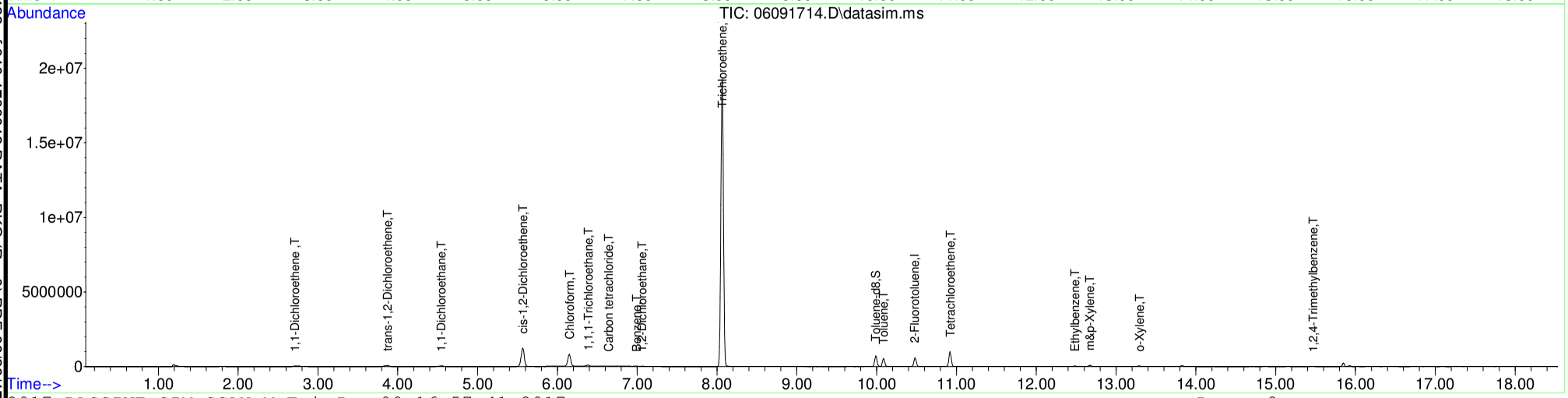
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091714.D
Acq On : 9 Jun 2017 15:41
InstName : AG5975C
Operator : RH
Sample : 1706012-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 09 16:57:40 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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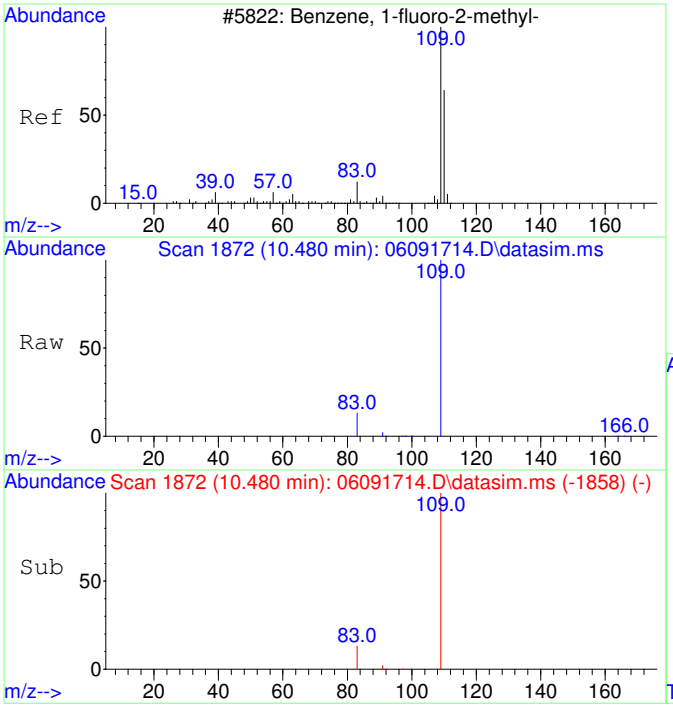
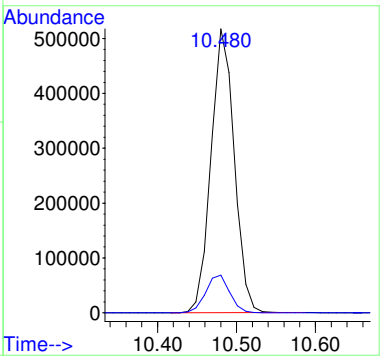
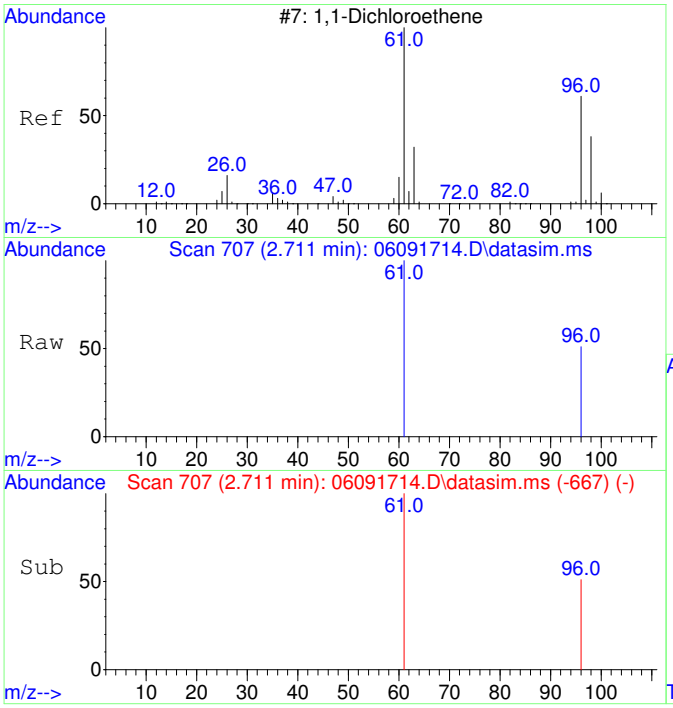


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion:109 Resp: 1056680

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.4

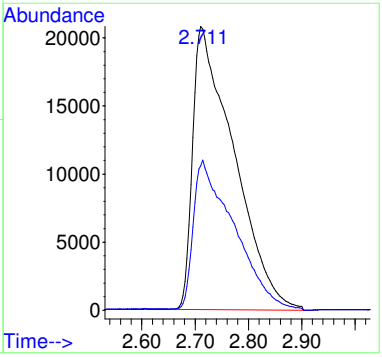


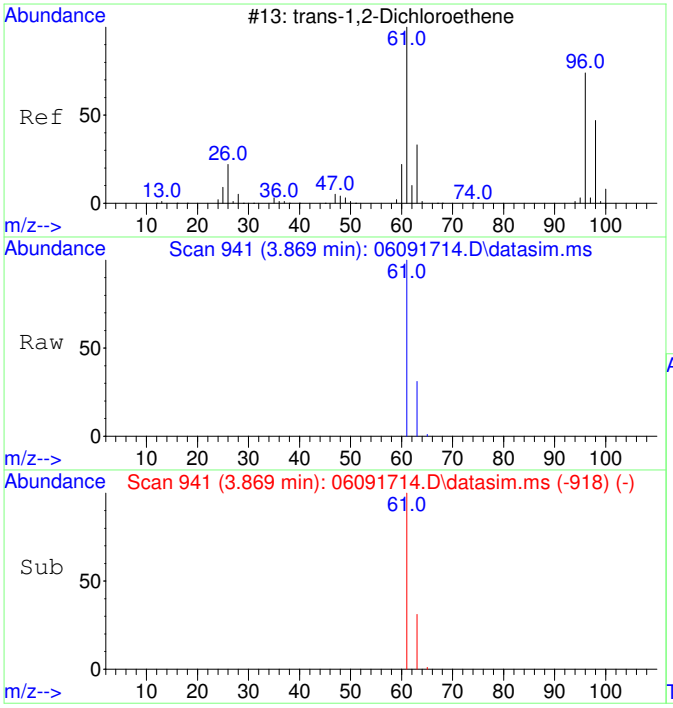


#2
1,1-Dichloroethene
Concen: 1339.06 ug/L
RT: 2.711 min Scan# 707
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 61 Resp: 111593

Ion	Ratio	Lower	Upper
61	100		
96	52.0	21.8	81.8

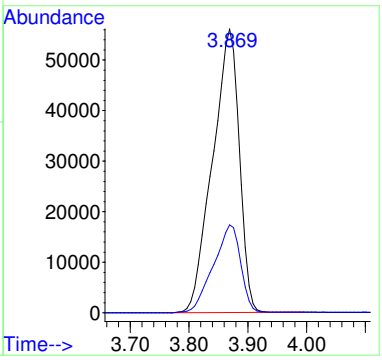


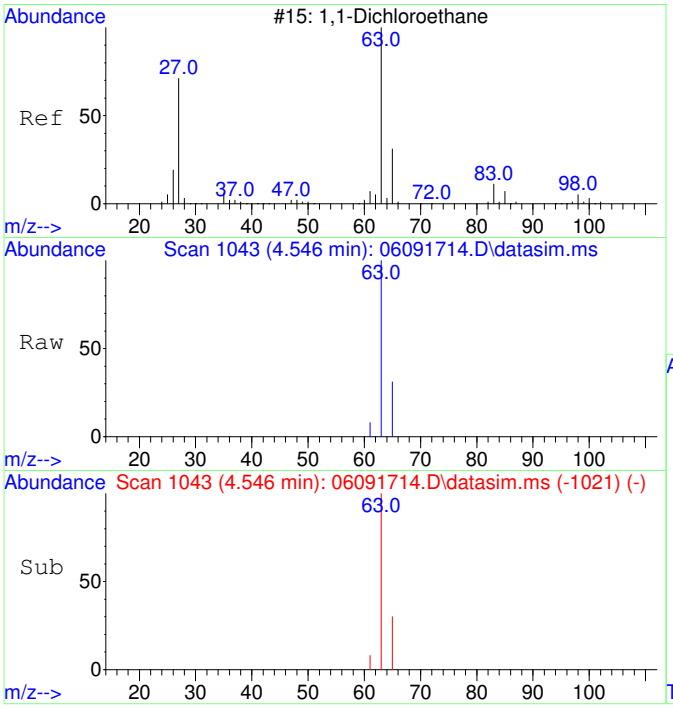


#3
trans-1,2-Dichloroethene
Concen: 1955.10 ug/L
RT: 3.869 min Scan# 941
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 61 Resp: 176592

Ion	Ratio	Lower	Upper
61	100		
63	31.4	1.0	61.0

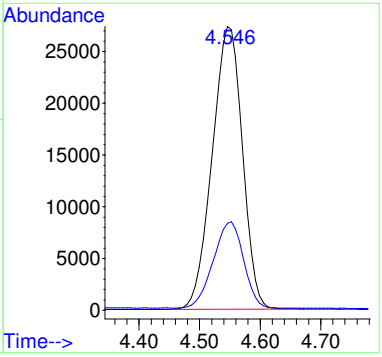


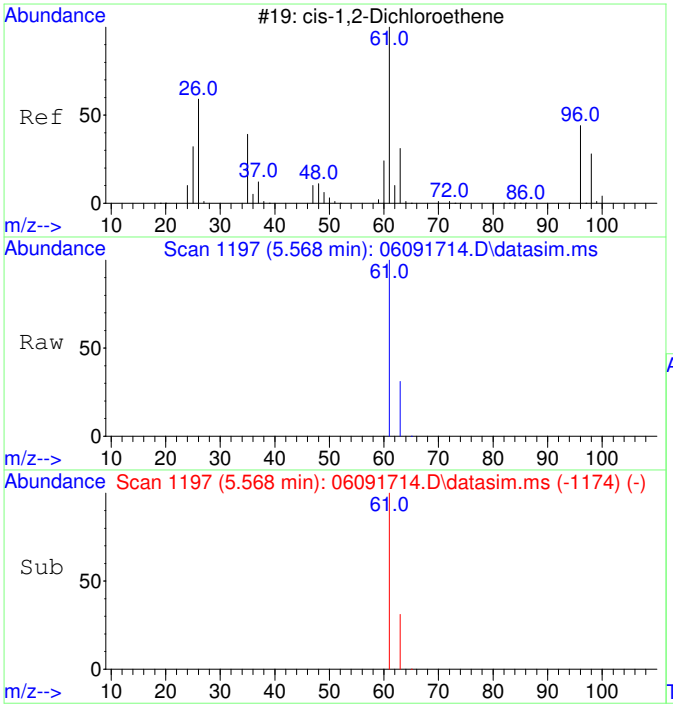


#4
1,1-Dichloroethane
Concen: 973.10 ug/L
RT: 4.546 min Scan# 1043
Delta R.T. -0.007 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 63 Resp: 94741

Ion	Ratio	Lower	Upper
63	100		
65	30.5	0.4	60.4

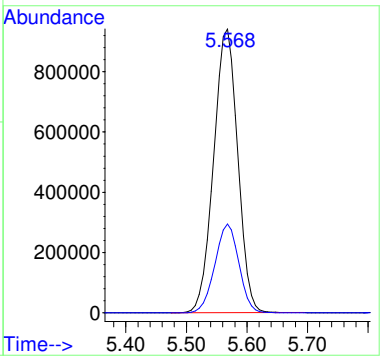


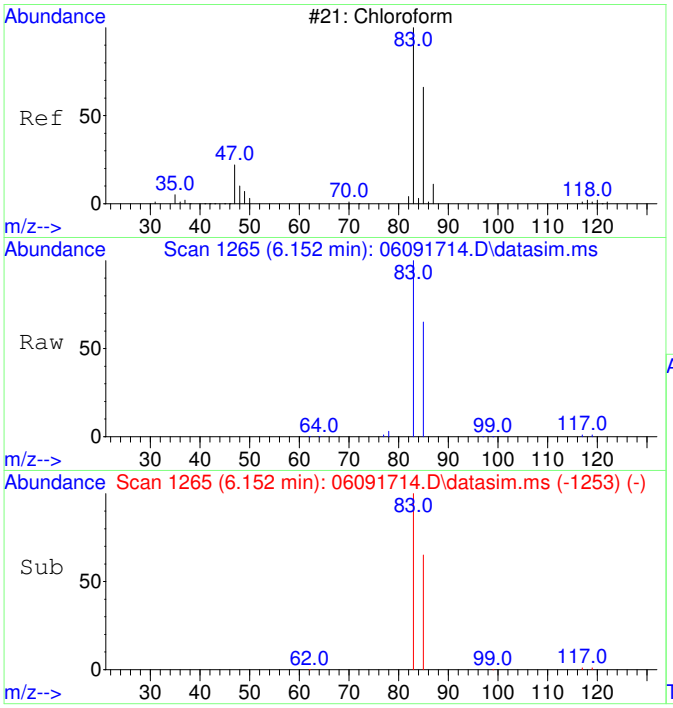


#5
cis-1,2-Dichloroethene
Concen: 27960.91 ug/L
RT: 5.568 min Scan# 1197
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 61 Resp: 2602160

Ion	Ratio	Lower	Upper
61	100		
63	31.1	0.9	60.9

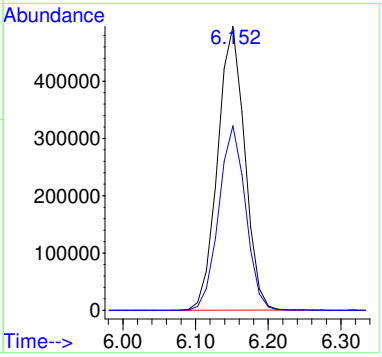


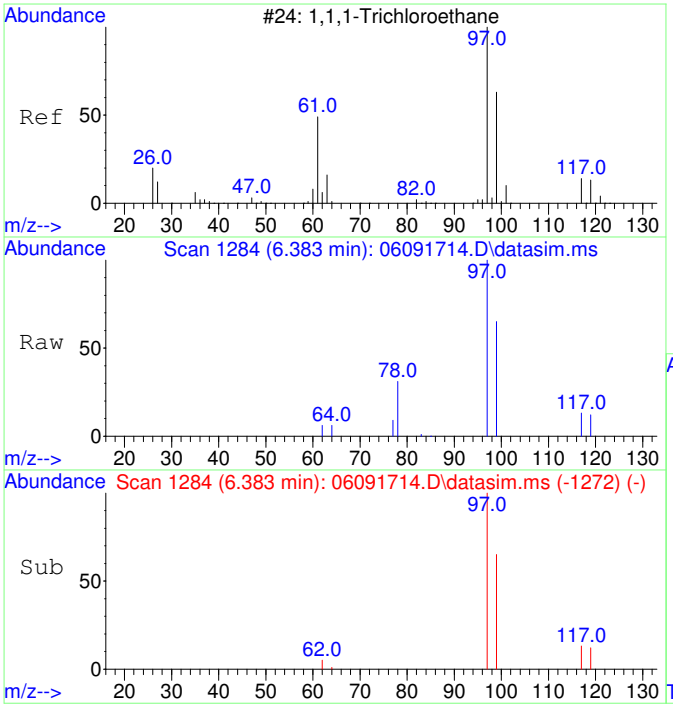


#6
Chloroform
Concen: 14220.18 ug/L
RT: 6.152 min Scan# 1265
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 83 Resp: 1280582

Ion	Ratio	Lower	Upper
83	100		
85	64.3	33.7	93.7

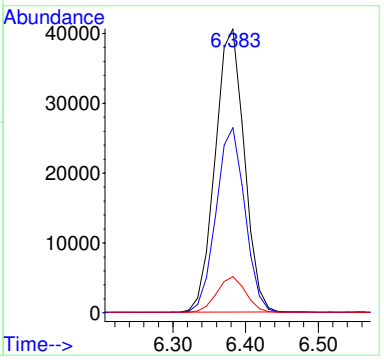


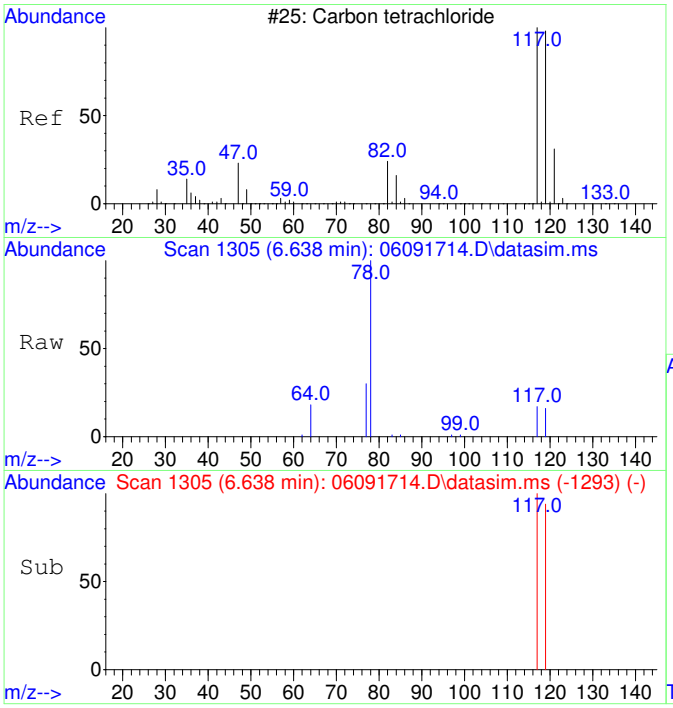


#7
1,1,1-Trichloroethane
Concen: 1366.47 ug/L
RT: 6.383 min Scan# 1284
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 97 Resp: 113018

Ion	Ratio	Lower	Upper
97	100		
99	64.3	34.3	94.3
117	12.4	0.0	42.3

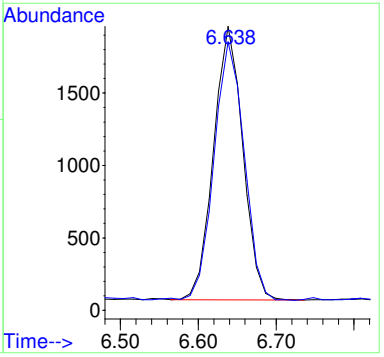


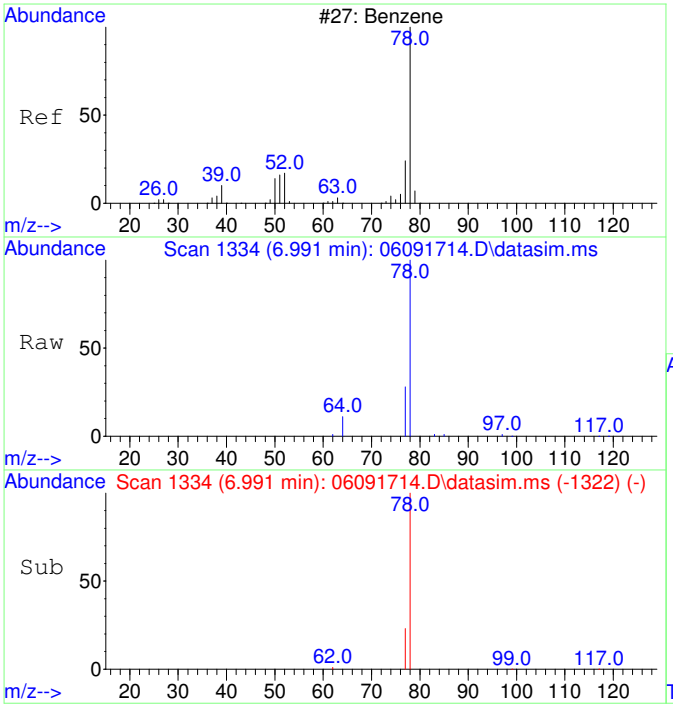


#8
Carbon tetrachloride
Concen: 69.06 ug/L
RT: 6.638 min Scan# 1305
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion:117 Resp: 4927

Ion	Ratio	Lower	Upper
117	100		
119	96.3	65.5	125.5

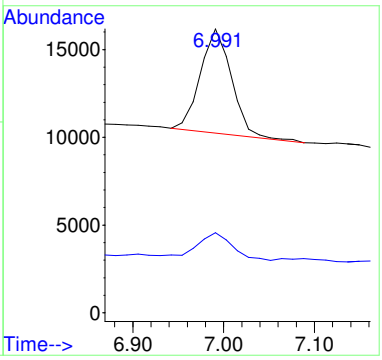


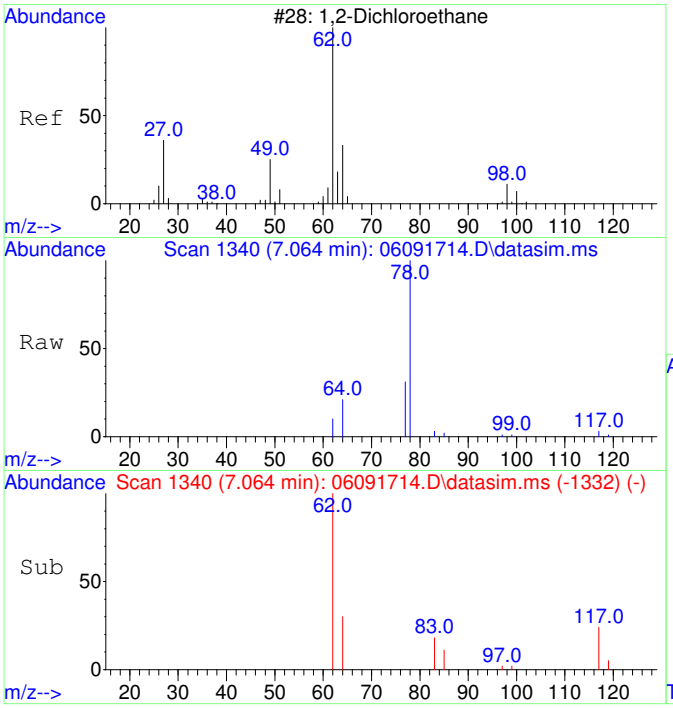


#9
Benzene
Concen: 66.11 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 78 Resp: 13865

Ion	Ratio	Lower	Upper
78	100		
77	22.7	0.0	53.0

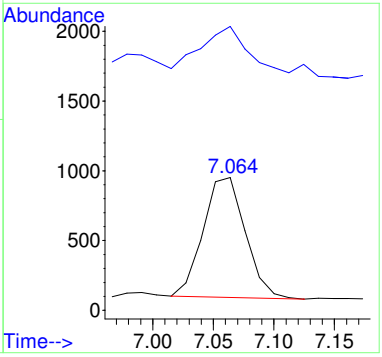


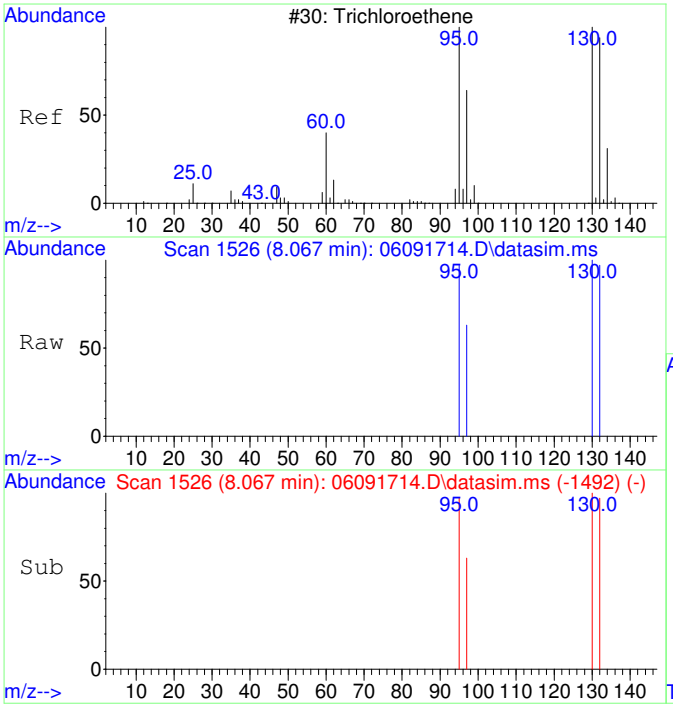


#10
1,2-Dichloroethane
Concen: 26.76 ug/L
RT: 7.064 min Scan# 1340
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 62 Resp: 2079

Ion	Ratio	Lower	Upper
62	100		
64	42.4	2.6	62.6

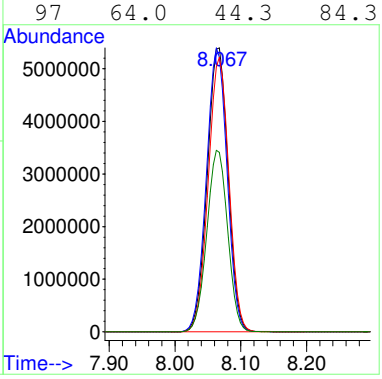


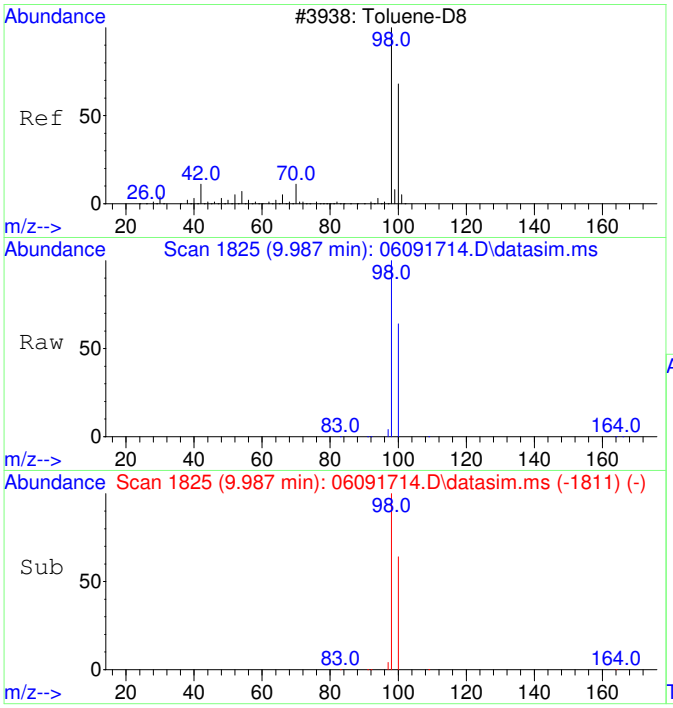


#11
Trichloroethene
Concen: 220556.85 ug/L
RT: 8.067 min Scan# 1526
Delta R.T. 0.004 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion:130 Resp:11895607

Ion	Ratio	Lower	Upper
130	100		
95	99.5	69.8	129.8
132	95.8	76.4	116.4
97	64.0	44.3	84.3

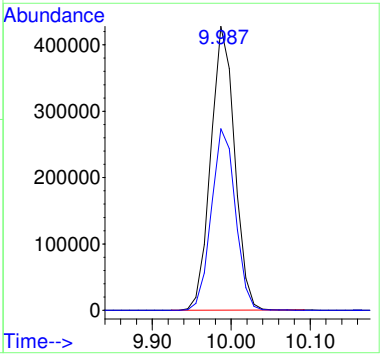


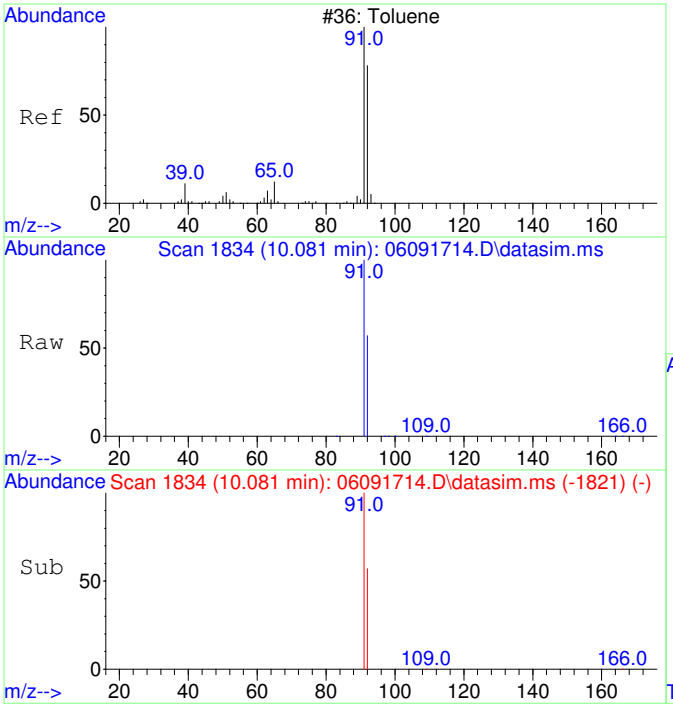


#12
Toluene-d8
Concen: 5165.69 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 98 Resp: 893929

Ion	Ratio	Lower	Upper
98	100		
100	64.2	34.2	94.2

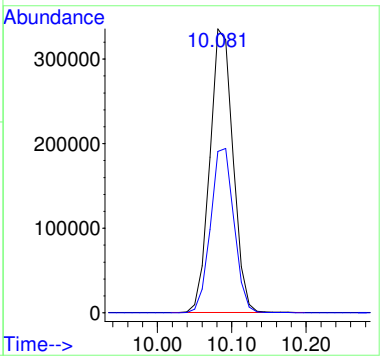


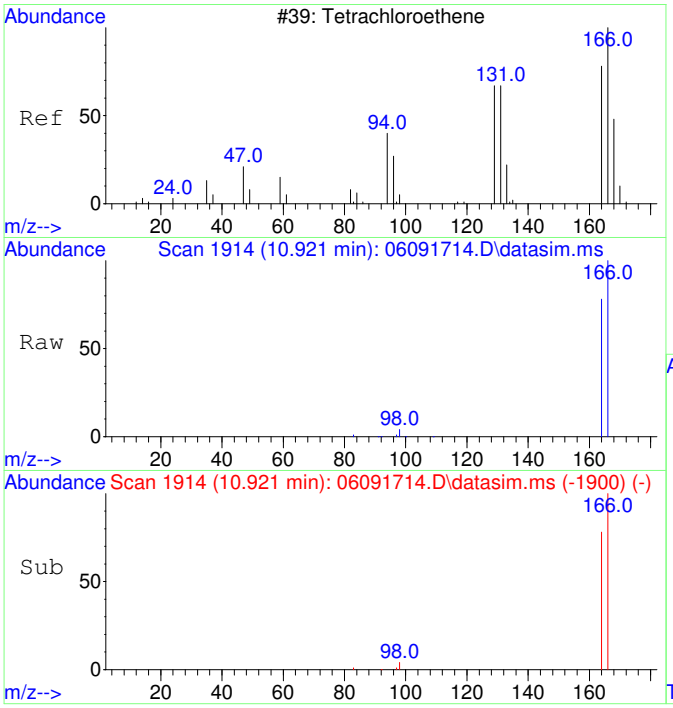


#13
Toluene
Concen: 3160.01 ug/L
RT: 10.081 min Scan# 1834
Delta R.T. -0.011 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 91 Resp: 724164

Ion	Ratio	Lower	Upper
91	100		
92	58.2	28.4	88.4

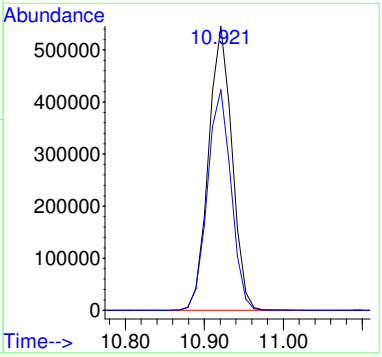


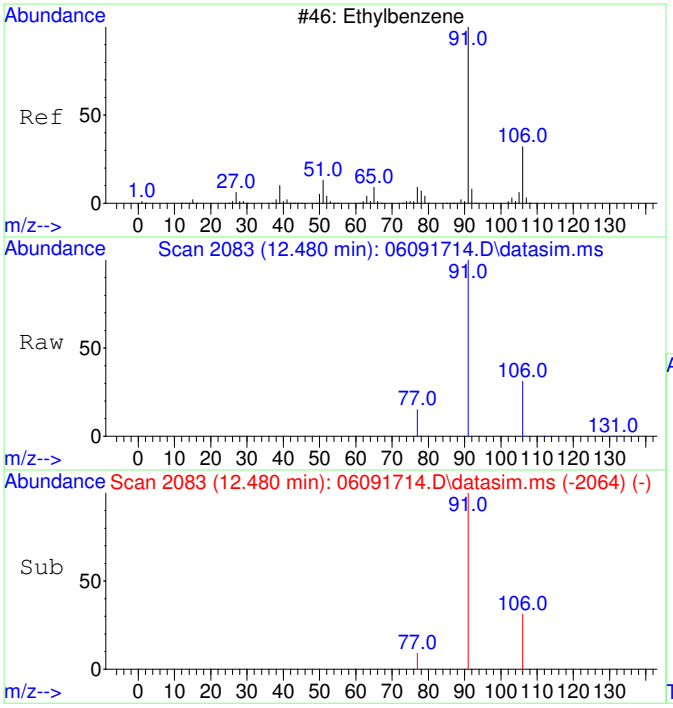


#15
Tetrachloroethene
Concen: 19135.51 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion:166 Resp: 1123964

Ion	Ratio	Lower	Upper
166	100		
164	78.1	48.1	108.1

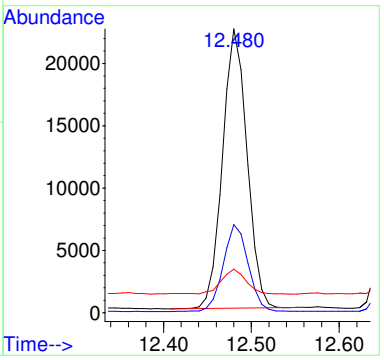


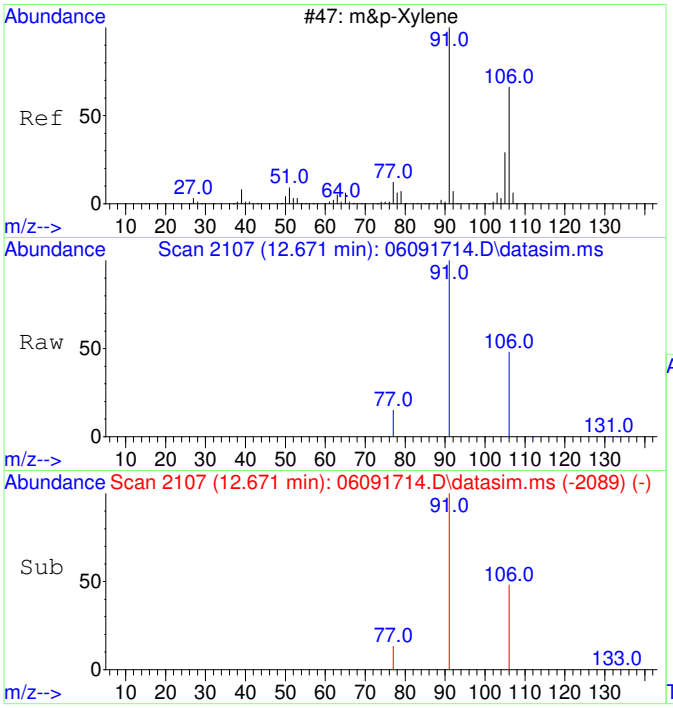


#18
Ethylbenzene
Concen: 175.33 ug/L
RT: 12.480 min Scan# 2083
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 91 Resp: 43242

Ion	Ratio	Lower	Upper
91	100		
106	31.2	1.2	61.2
77	8.7	0.0	38.6

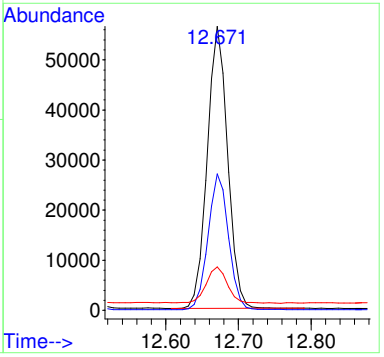


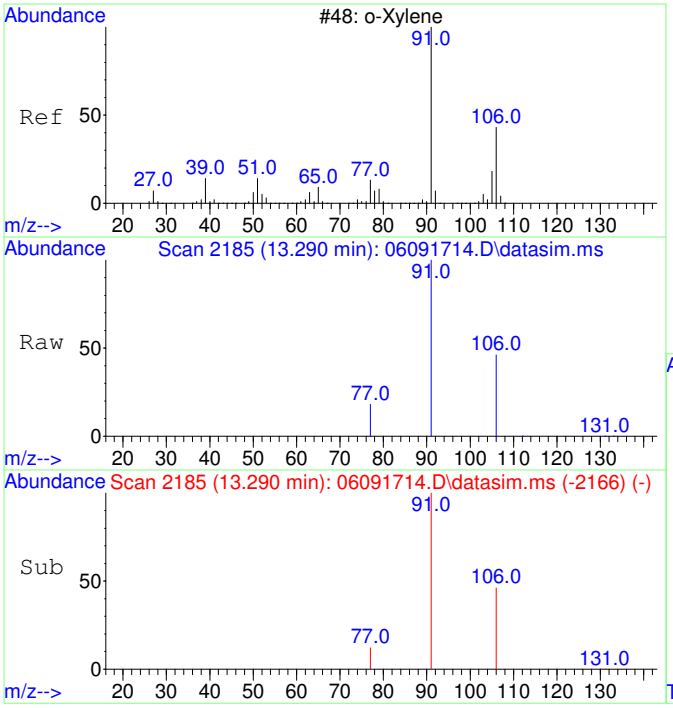


#19
m&p-Xylene
Concen: 571.27 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 91 Resp: 110526

Ion	Ratio	Lower	Upper
91	100		
106	48.1	18.4	78.4
77	12.8	0.0	43.1

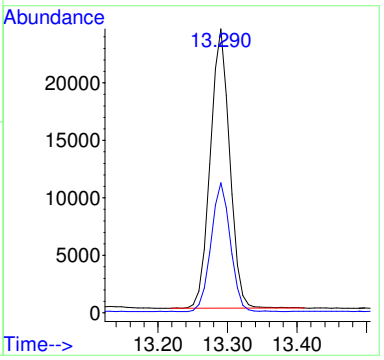


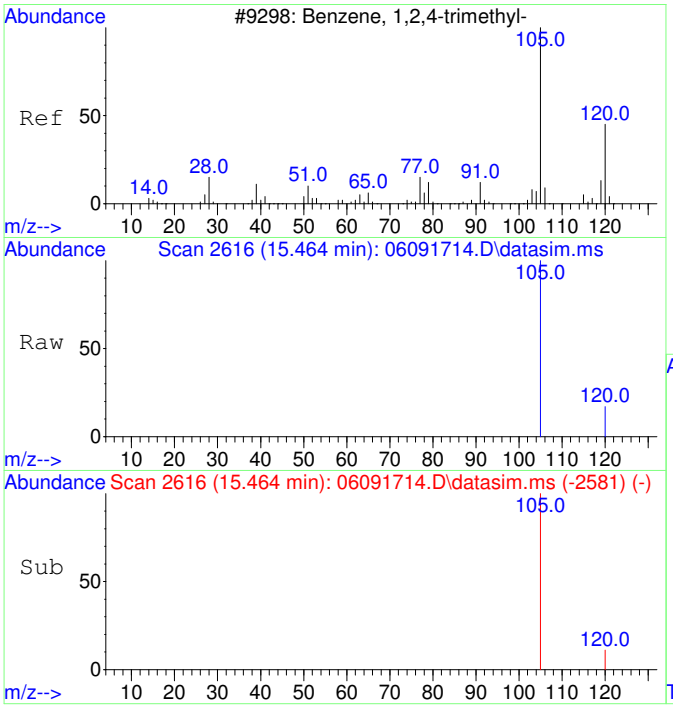


#20
o-Xylene
Concen: 235.40 ug/L
RT: 13.290 min Scan# 2185
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 91 Resp: 47102

Ion	Ratio	Lower	Upper
91	100		
106	45.7	16.0	76.0

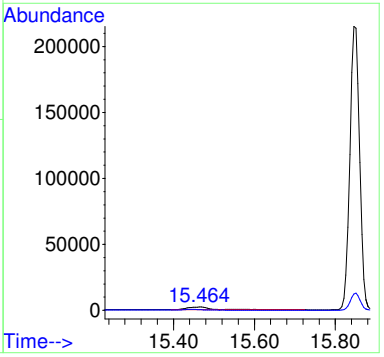


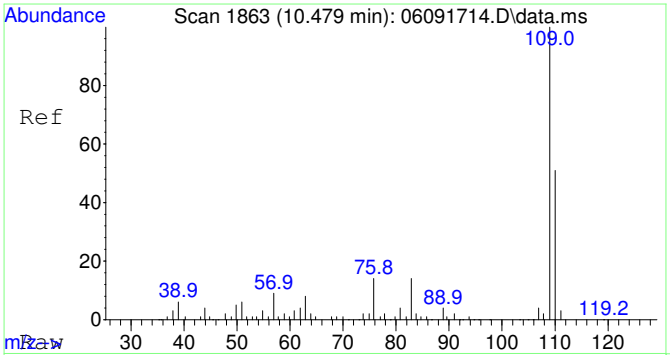


#23
1,2,4-Trimethylbenzene
Concen: 43.95 ug/L
RT: 15.464 min Scan# 2616
Delta R.T. 0.024 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion:105 Resp: 8902

Ion	Ratio	Lower	Upper
105	100		
120	17.2	14.4	74.4

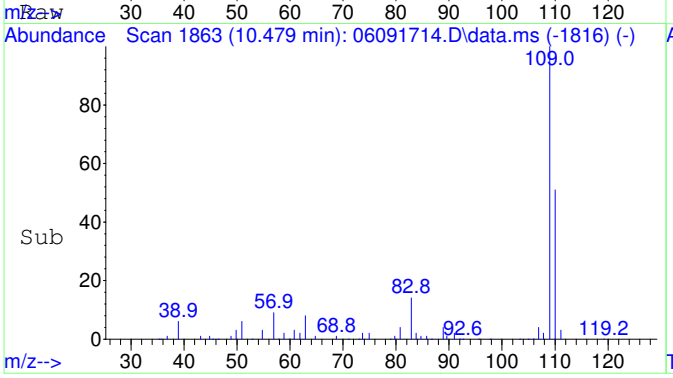


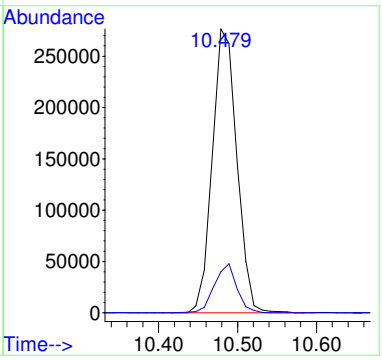


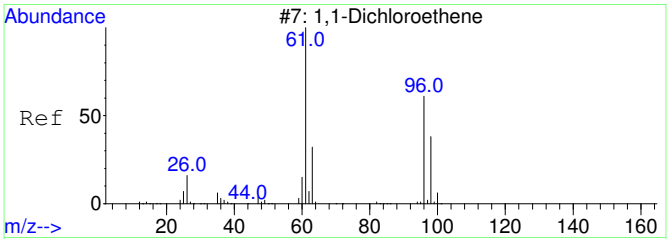
#25
2-Fluorotoluene SCAN
Concen: 4668.82 ug/L
RT: 10.479 min Scan# 1863
Delta R.T. -0.011 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion:109 Resp: 598147

Ion	Ratio	Lower	Upper
109	100		
83	15.8	0.0	46.1



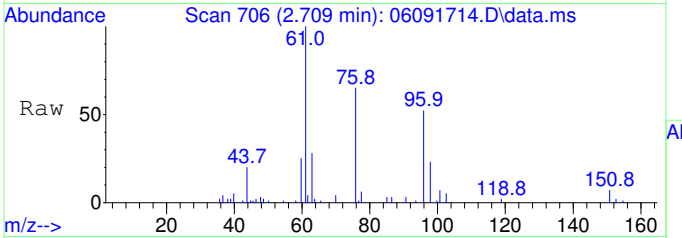


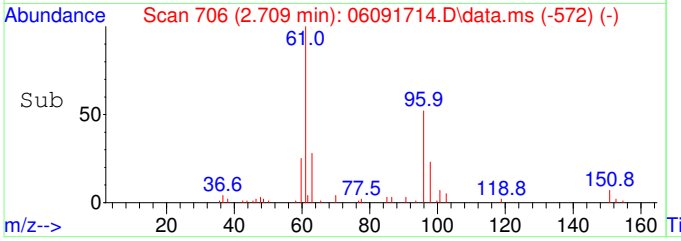


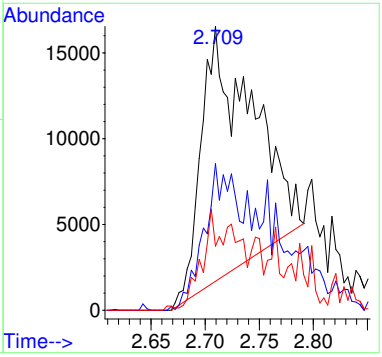
#26
1,1-Dichloroethene SCAN
Concen: 899.95 ug/L
RT: 2.709 min Scan# 706
Delta R.T. -0.004 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

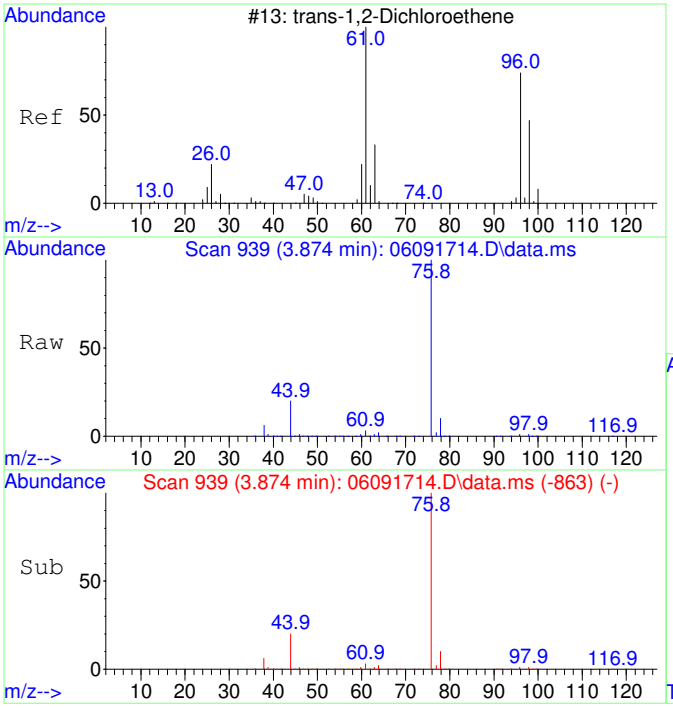
Tgt Ion: 61 Resp: 48511

Ion	Ratio	Lower	Upper
61	100		
96	78.2	16.7	76.7#
98	15.4	0.0	45.3





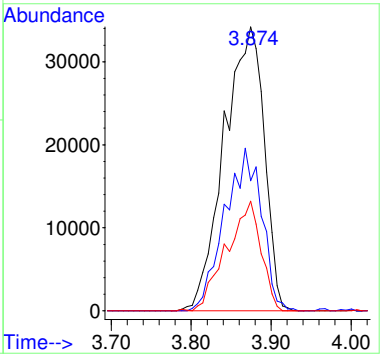


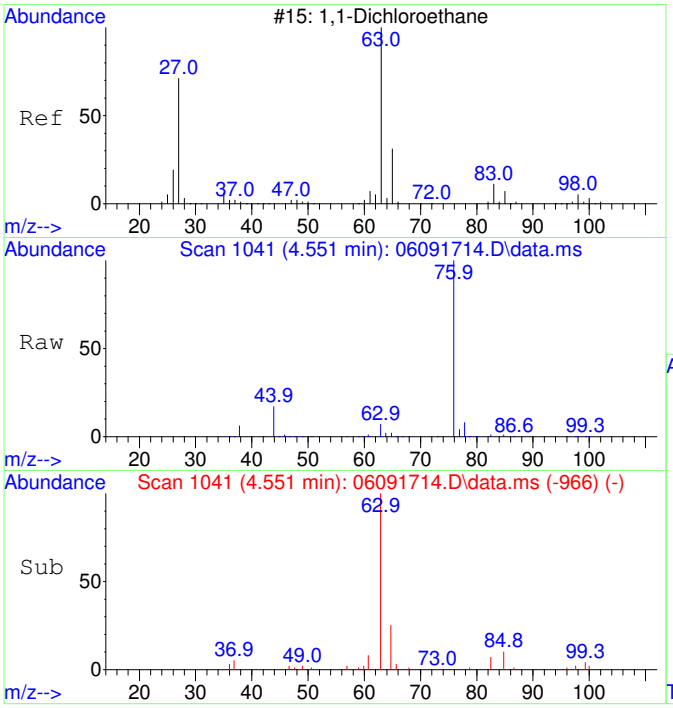


#27
trans-1,2-Dichloroethene SCAN
Concen: 2068.79 ug/L
RT: 3.874 min Scan# 939
Delta R.T. 0.007 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 61 Resp: 119011

Ion	Ratio	Lower	Upper
61	100		
96	52.4	26.1	86.1
98	33.2	4.4	64.4

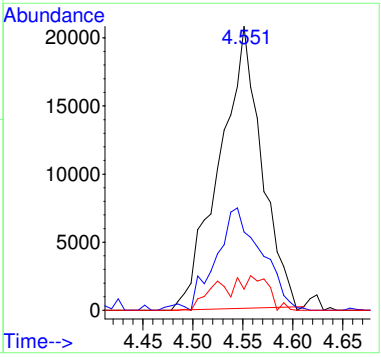


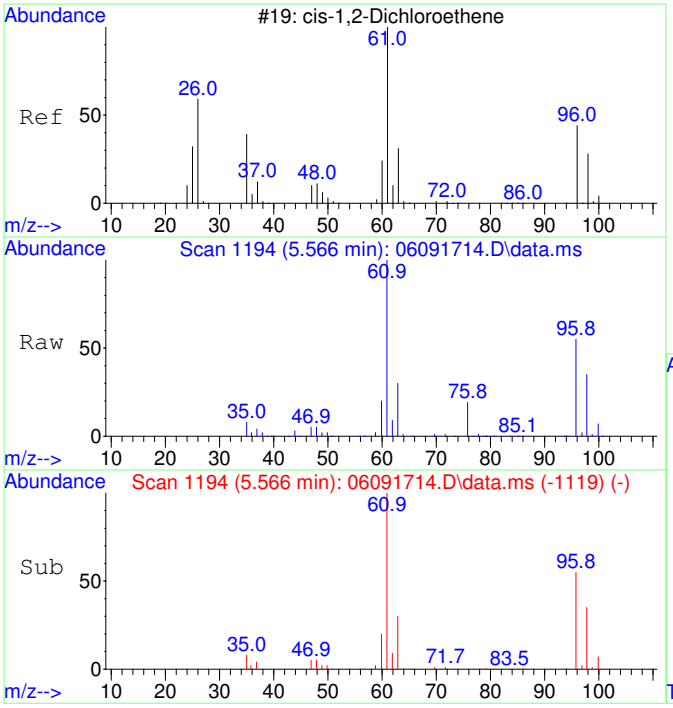


#28
1,1-Dichloroethane SCAN
Concen: 925.94 ug/L
RT: 4.551 min Scan# 1041
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 63 Resp: 60730

Ion	Ratio	Lower	Upper
63	100		
65	37.1	1.1	61.1
83	6.1	0.0	31.5

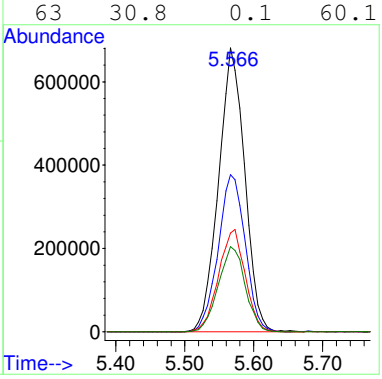


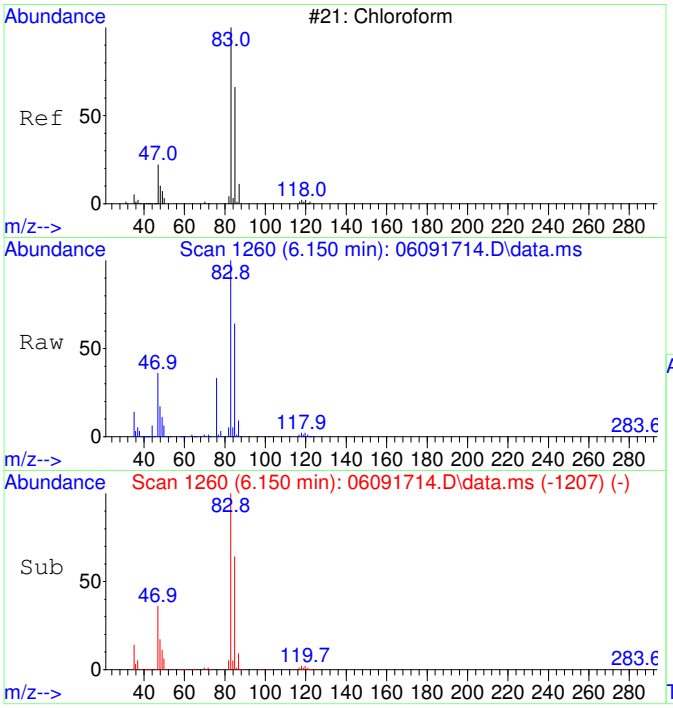


#29
cis-1,2-Dichloroethene SCAN
Concen: 27033.43 ug/L
RT: 5.566 min Scan# 1194
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 61 Resp: 1793992

Ion	Ratio	Lower	Upper
61	100		
96	57.2	17.5	77.5
98	36.8	1.9	61.9
63	30.8	0.1	60.1

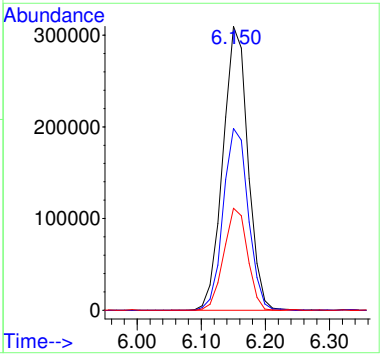


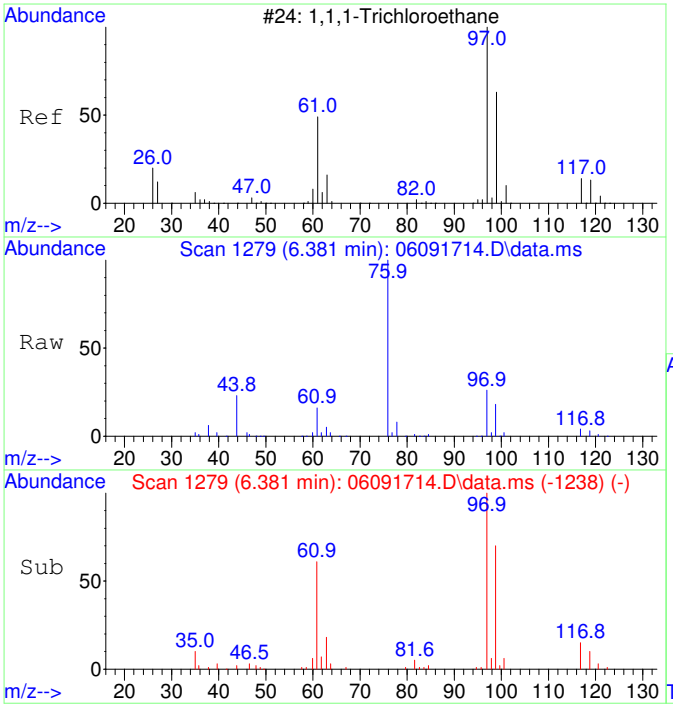


#30
Chloroform SCAN
Concen: 13962.73 ug/L
RT: 6.150 min Scan# 1260
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 83 Resp: 835548

Ion	Ratio	Lower	Upper
83	100		
85	64.0	31.2	91.2
47	34.2	3.2	63.2

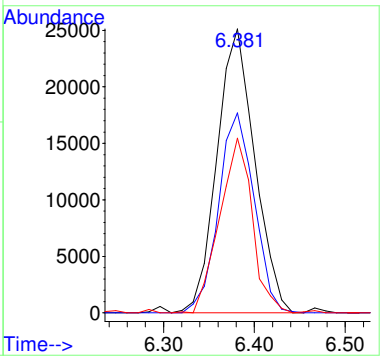


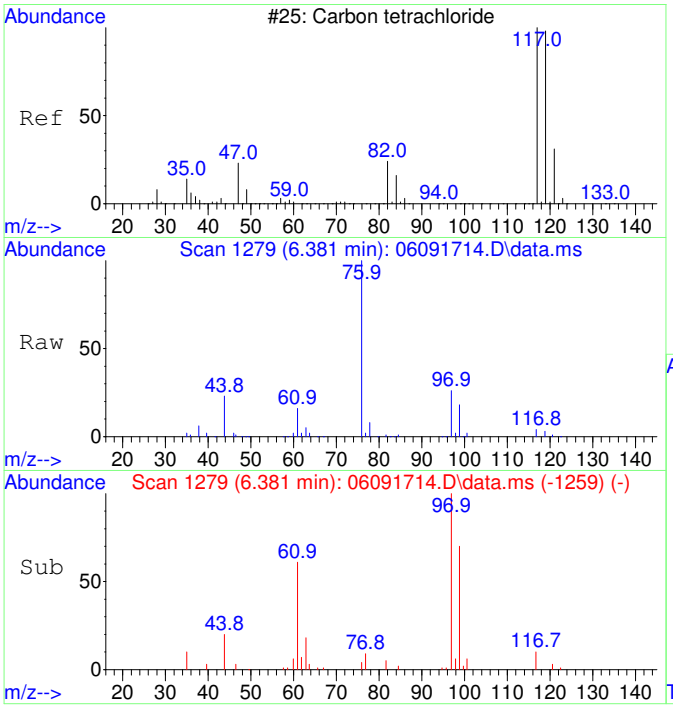


#31
1,1,1-Trichloroethane SCAN
Concen: 1474.71 ug/L
RT: 6.381 min Scan# 1279
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 97 Resp: 72624

Ion	Ratio	Lower	Upper
97	100		
99	66.3	38.7	98.7
61	52.7	27.8	87.8

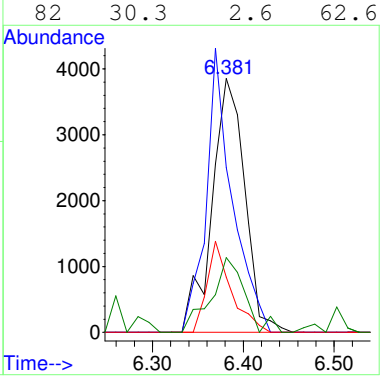


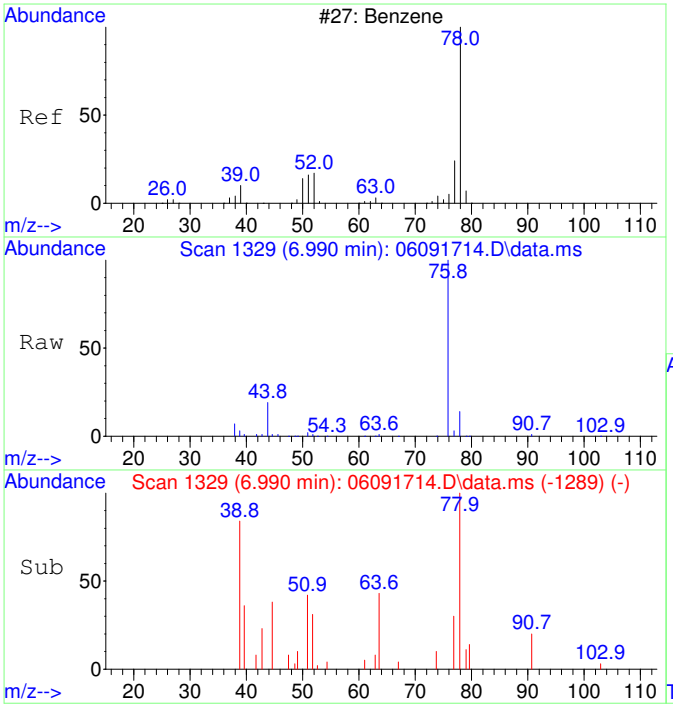


#32
Carbon tetrachloride SCAN
Concen: 214.14 ug/L
RT: 6.381 min Scan# 1279
Delta R.T. -0.256 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion:117 Resp: 9708

Ion	Ratio	Lower	Upper
117	100		
119	88.7	66.8	126.8
121	26.3	0.4	60.4
82	30.3	2.6	62.6

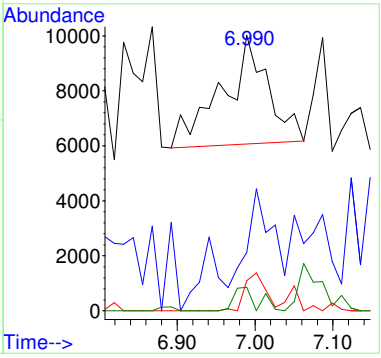


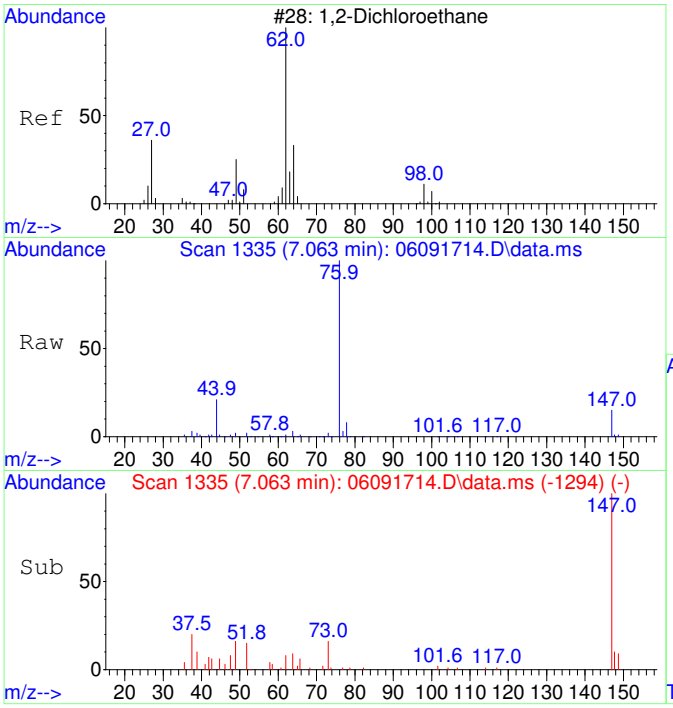


#33
Benzene SCAN
Concen: 119.29 ug/L
RT: 6.990 min Scan# 1329
Delta R.T. -0.012 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 78 Resp: 16179

Ion	Ratio	Lower	Upper
78	100		
77	40.5	0.0	55.2
51	14.0	0.0	52.4
52	11.1	0.0	53.3

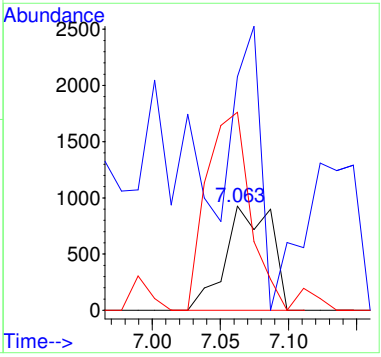


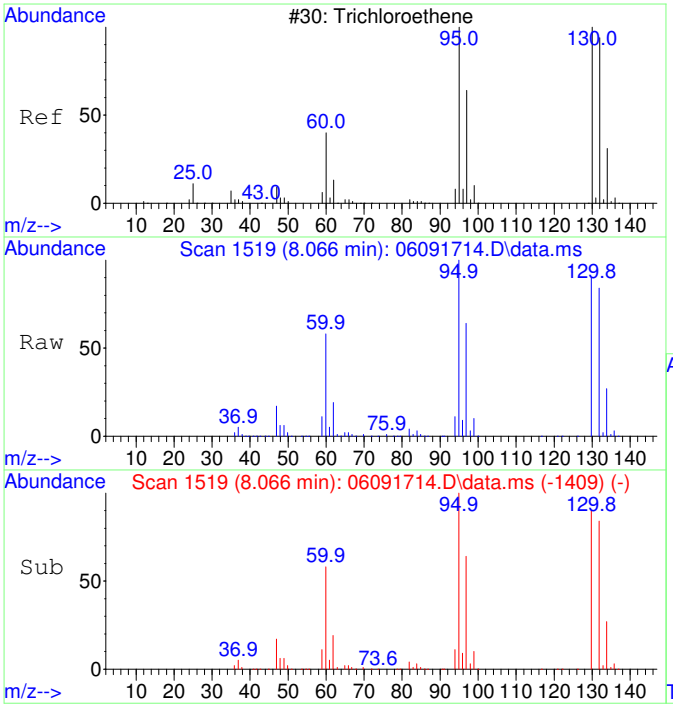


#34
1,2-Dichloroethane SCAN
Concen: 37.39 ug/L
RT: 7.063 min Scan# 1335
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 62 Resp: 2188

Ion	Ratio	Lower	Upper
62	100		
64	113.9	7.4	67.4#
49	191.0	0.0	54.8#

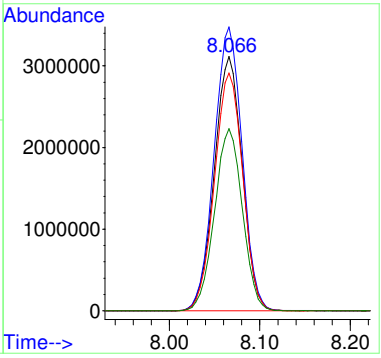


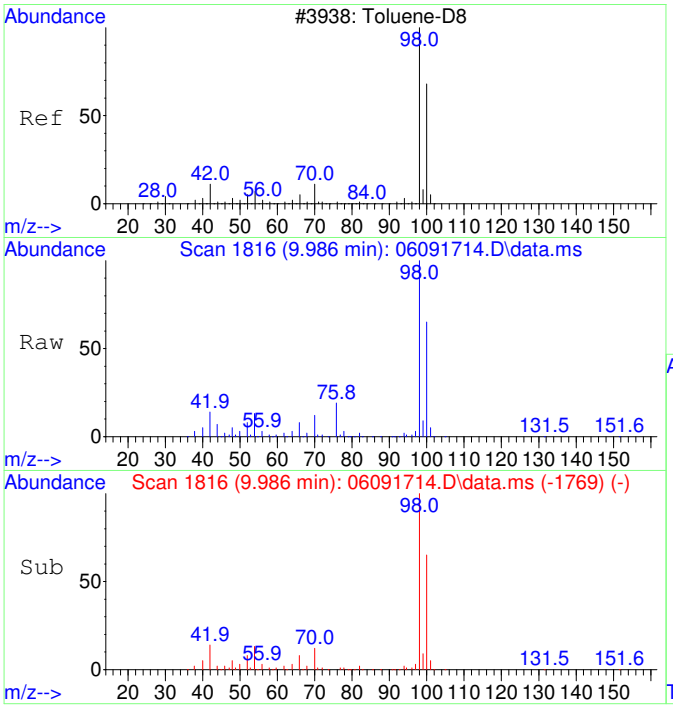


#35
Trichloroethene SCAN
Concen: 213391.51 ug/L
RT: 8.066 min Scan# 1519
Delta R.T. 0.004 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion:130 Resp: 6702212

Ion	Ratio	Lower	Upper
130	100		
95	111.6	76.1	136.1
132	94.3	65.6	125.6
97	71.1	41.8	101.8

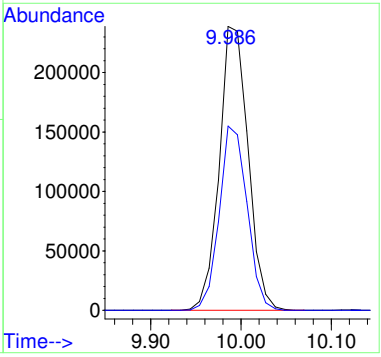


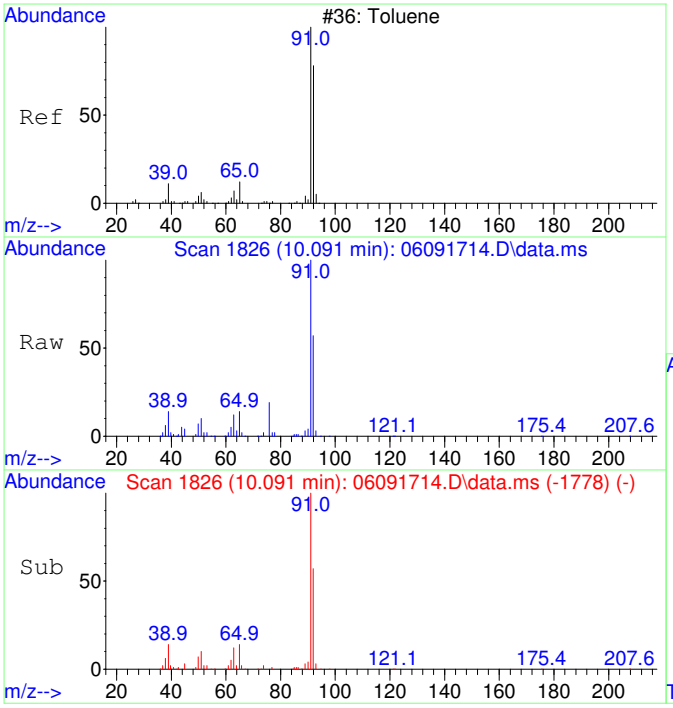


#36
Toluene-d8 SCAN
Concen: 5030.66 ug/L
RT: 9.986 min Scan# 1816
Delta R.T. -0.011 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 98 Resp: 531916

Ion	Ratio	Lower	Upper
98	100		
100	62.7	36.2	96.2

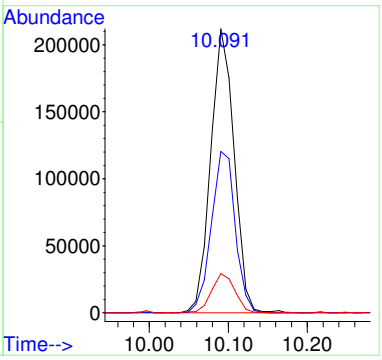


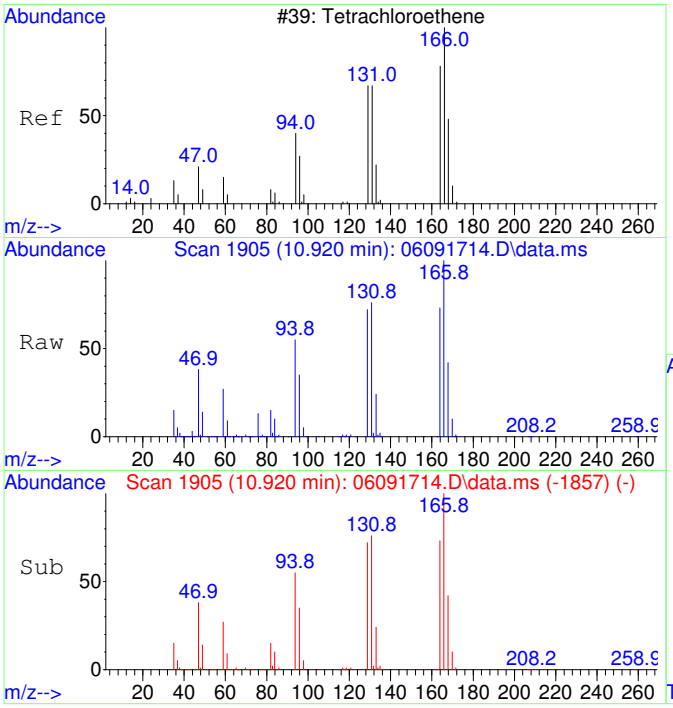


#37
Toluene SCAN
Concen: 3102.23 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 91 Resp: 437492

Ion	Ratio	Lower	Upper
91	100		
92	57.8	29.2	89.2
65	13.8	0.0	44.3

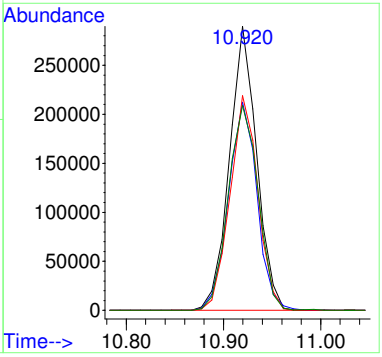


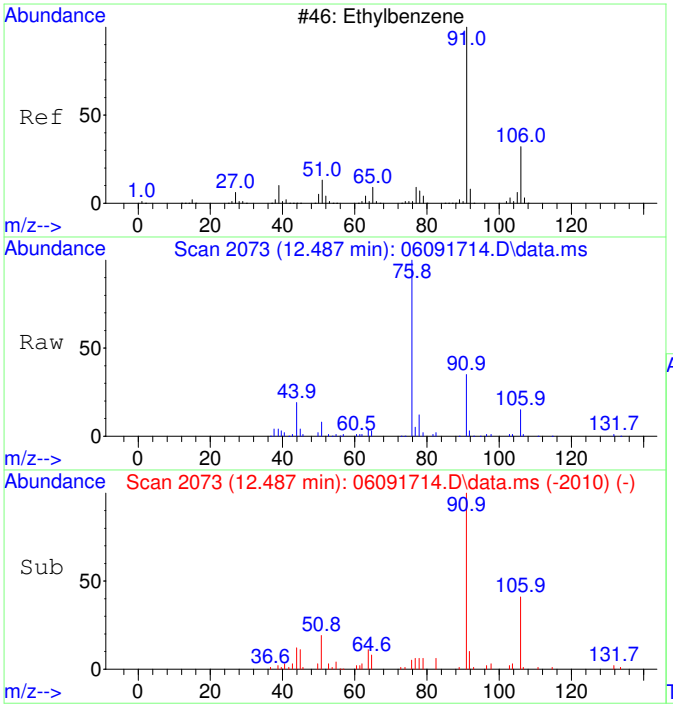


#39
Tetrachloroethene SCAN
Concen: 19494.97 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion:166 Resp: 563627

Ion	Ratio	Lower	Upper
166	100		
164	76.8	45.7	105.7
131	77.1	44.8	104.8
129	79.2	55.5	115.5

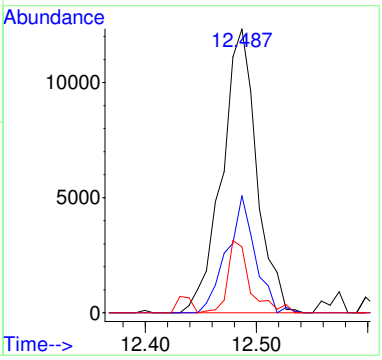


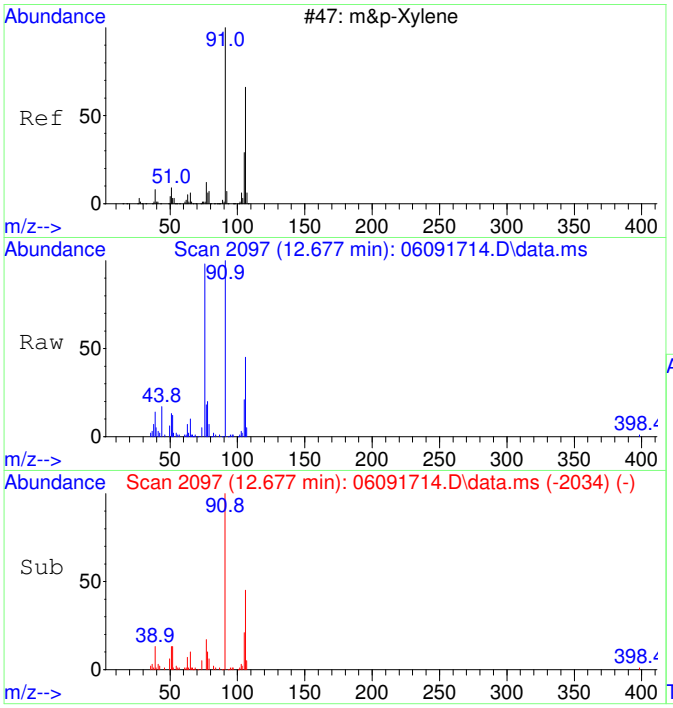


#42
Ethylbenzene SCAN
Concen: 169.49 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 91 Resp: 26763

Ion	Ratio	Lower	Upper
91	100		
106	33.5	0.0	59.8
51	15.5	0.0	45.5

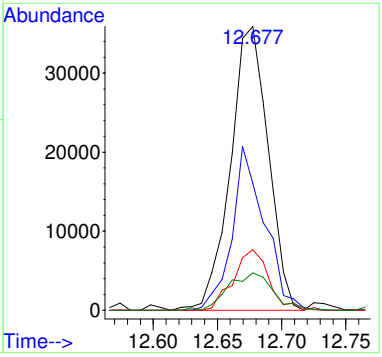


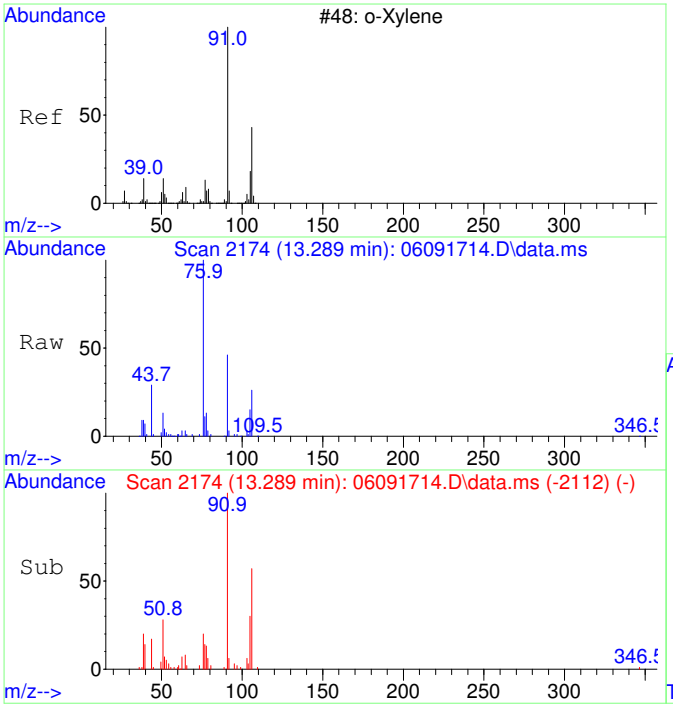


#43
m&p-Xylene SCAN
Concen: 297.16 ug/L
RT: 12.677 min Scan# 2097
Delta R.T. -0.000 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 91 Resp: 73263

Ion	Ratio	Lower	Upper
91	100		
106	49.6	18.5	78.5
105	20.1	0.0	51.3
51	15.7	0.0	45.7

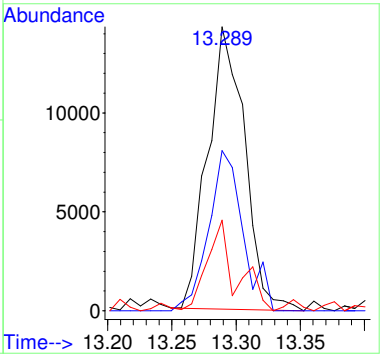




#44
o-Xylene SCAN
Concen: 225.06 ug/L
RT: 13.289 min Scan# 2174
Delta R.T. -0.008 min
Lab File: 06091714.D
Acq: 9 Jun 2017 15:41

Tgt Ion: 91 Resp: 28573

Ion	Ratio	Lower	Upper
91	100		
106	52.7	15.5	75.5
105	24.5	0.0	54.1



1706012-07

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091715.D
Acq On : 9 Jun 2017 16:05
InstName : AG5975C
Operator : RH
Sample : 1706012-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 09 16:57:46 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

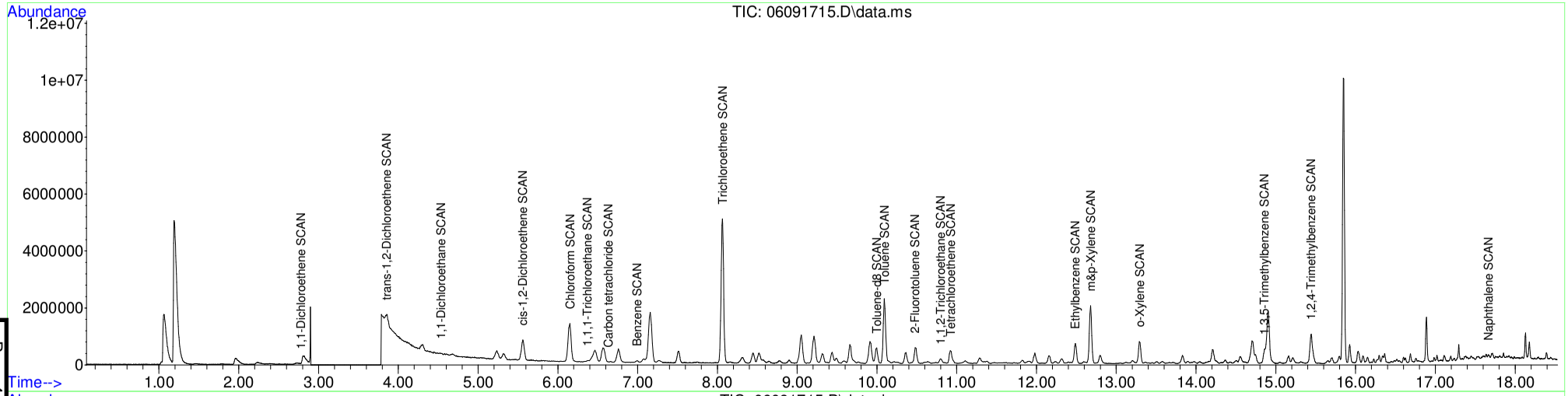
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.481	109	762396	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	647814	5188.46 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 103.77%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.715	61	68631	1141.42 ug/L	98
3] trans-1,2-Dichloroethene	3.856	61	68854	1056.55 ug/L	97
4] 1,1-Dichloroethane	4.533	63	46719	665.08 ug/L	98
5] cis-1,2-Dichloroethene	5.555	61	921169	13718.91 ug/L	100
6] Chloroform	6.140	83	1937925	29826.16 ug/L	99
7] 1,1,1-Trichloroethane	6.371	97	38072	638.00 ug/L	100
8] Carbon tetrachloride	6.638	117	5812	112.90 ug/L	99
9] Benzene	6.991	78	84579	558.98 ug/L	99
11] Trichloroethene	8.063	130	3222021	82799.02 ug/L	100
13] Toluene	10.092	91	2912671	17615.93 ug/L	100
14] 1,1,2-Trichloroethane	10.806	97	2243	63.44 ug/L #	7
15] Tetrachloroethene	10.921	166	288766	6813.91 ug/L	100
18] Ethylbenzene	12.481	91	734883	4129.86 ug/L	100
19] m&p-Xylene	12.671	91	2196659	15736.17 ug/L	100
20] o-Xylene	13.291	91	865970	5998.39 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.365	83	4654	75.80 ug/L	80
22] 1,3,5-Trimethylbenzene	14.855	105	382693	2684.72 ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	1142413	7817.68 ug/L	100
24] Naphthalene	17.663	128	7450	34.42 ug/L	99
25) 2-Fluorotoluene SCAN	10.479	109	442541	4787.58 ug/L	99
26) 1,1-Dichloroethene SCAN	2.777	61	4373	112.44 ug/L	71
27) trans-1,2-Dichloroethe...	3.855	61	49123	1183.53 ug/L	96
28) 1,1-Dichloroethane SCAN	4.532	63	34357	726.03 ug/L	94
29) cis-1,2-Dichloroethene...	5.560	61	635820	13279.38 ug/L	90
30) Chloroform SCAN	6.151	83	1261747	29223.64 ug/L	97
31) 1,1,1-Trichloroethane ...	6.369	97	23365	657.59 ug/L	84
32) Carbon tetrachloride SCAN	6.637	117	2317	70.84 ug/L #	1
33) Benzene SCAN	6.990	78	64746	661.65 ug/L	90
35) Trichloroethene SCAN	8.062	130	1784896	78765.27 ug/L	98
36) Toluene-d8 SCAN	9.997	98	391839	5136.33 ug/L	100
37) Toluene SCAN	10.091	91	1823594	17922.36 ug/L	96
38) 1,1,2-Trichloroethane ...	10.794	97	899	39.23 ug/L #	34
39) Tetrachloroethene SCAN	10.920	166	135631	6502.09 ug/L	94
42) Ethylbenzene SCAN	12.487	91	446895	3922.53 ug/L	98
43) m&p-Xylene SCAN	12.678	91	1338828	7526.47 ug/L	96
44) o-Xylene SCAN	13.290	91	532509	5813.44 ug/L	95
46) 1,3,5-Trimethylbenzene...	14.858	105	216691	2493.92 ug/L	98
47) 1,2,4-Trimethylbenzene...	15.444	105	640806	7077.19 ug/L	97
48) Naphthalene SCAN	17.661	128	4473	35.82 ug/L	33

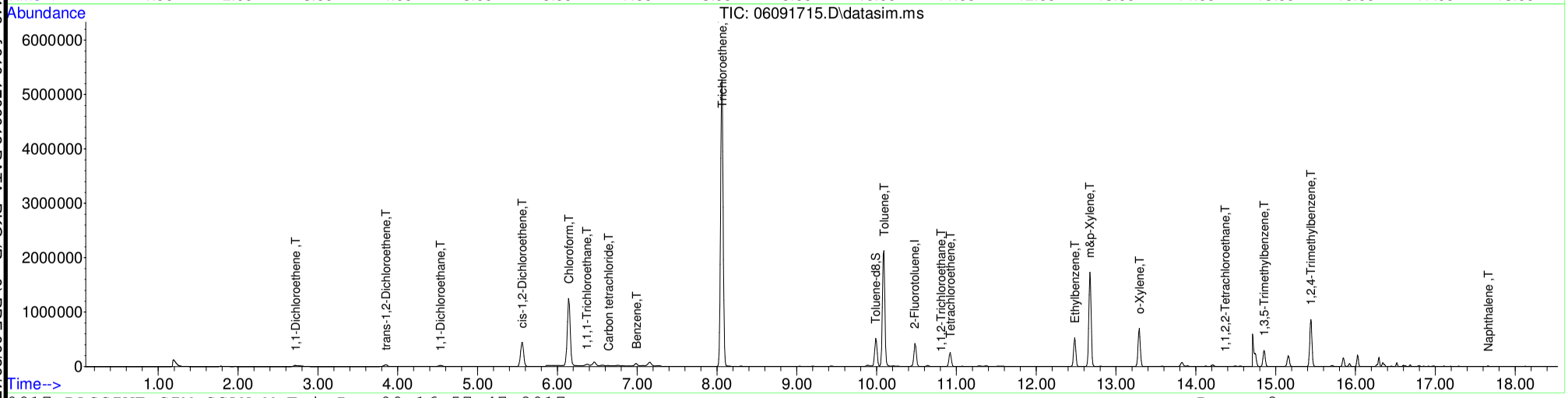
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091715.D
Acq On : 9 Jun 2017 16:05
InstName : AG5975C
Operator : RH
Sample : 1706012-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 09 16:57:46 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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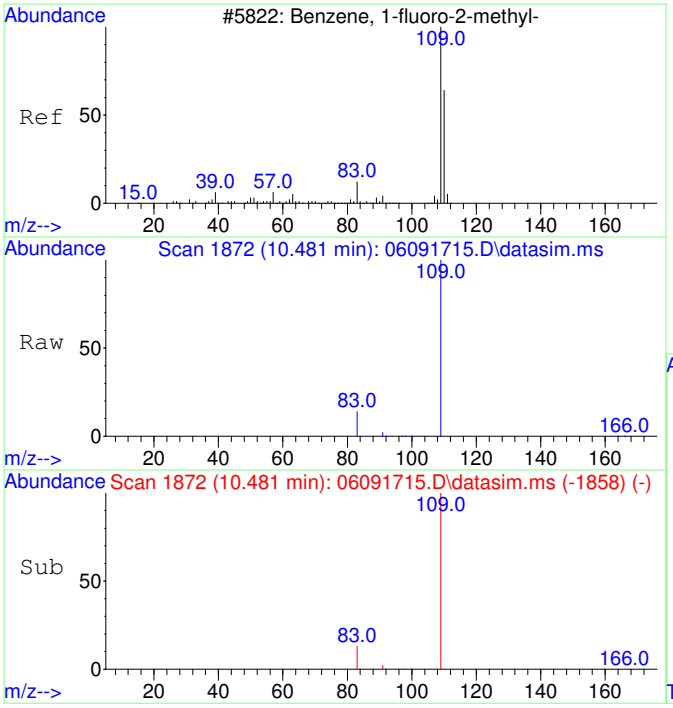
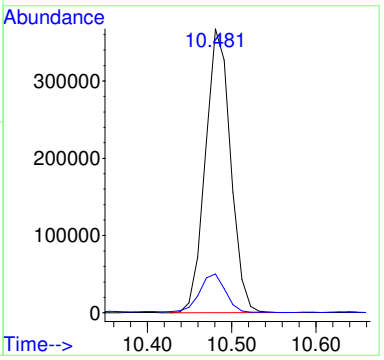
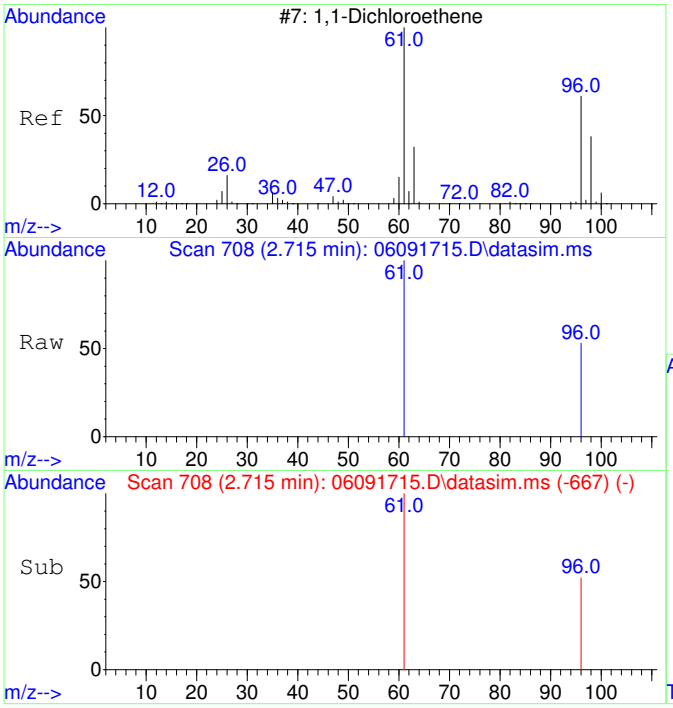


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.481 min Scan# 1872
Delta R.T. 0.001 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion:109 Resp: 762396

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	44.4

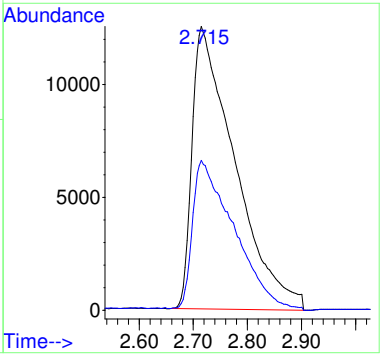


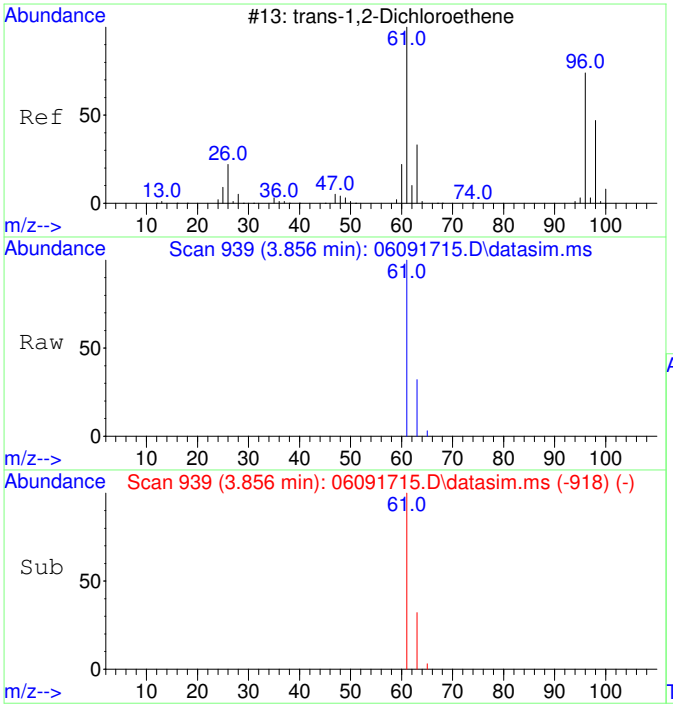


#2
1,1-Dichloroethene
Concen: 1141.42 ug/L
RT: 2.715 min Scan# 708
Delta R.T. 0.004 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 61 Resp: 68631

Ion	Ratio	Lower	Upper
61	100		
96	50.5	21.8	81.8

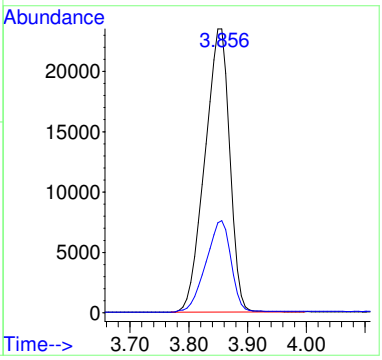


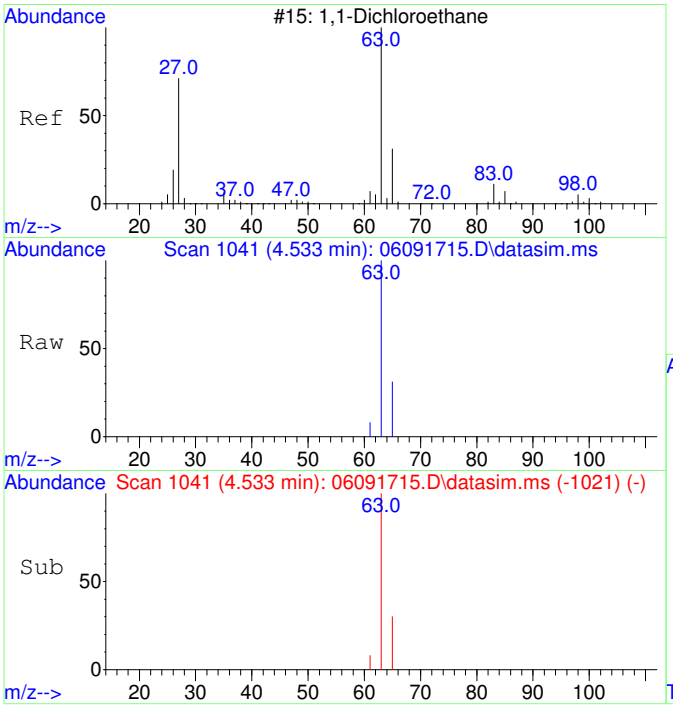


#3
trans-1,2-Dichloroethene
Concen: 1056.55 ug/L
RT: 3.856 min Scan# 939
Delta R.T. -0.013 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 61 Resp: 68854

Ion	Ratio	Lower	Upper
61	100		
63	32.5	1.0	61.0

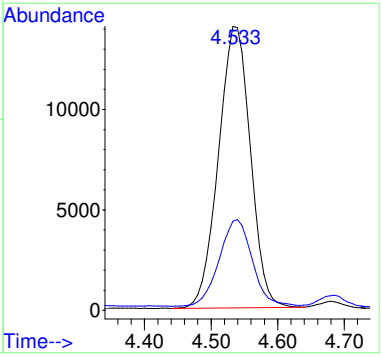


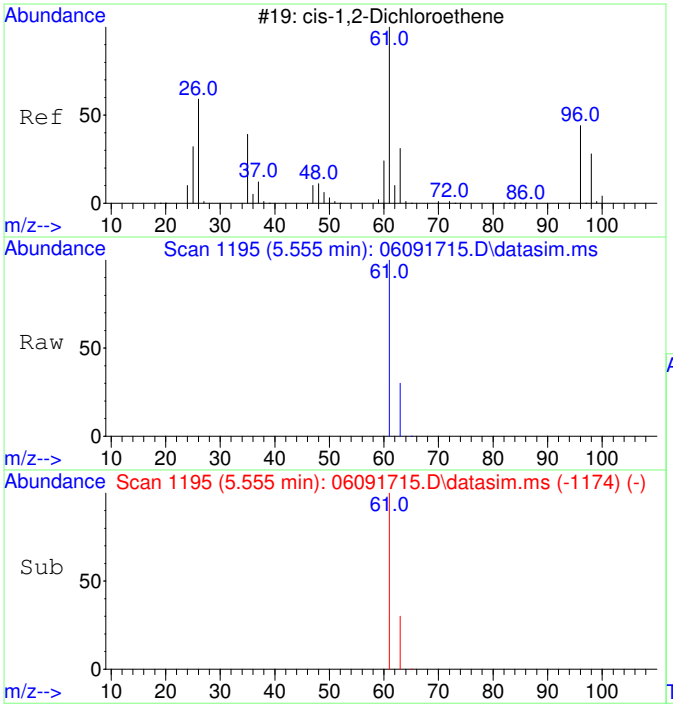


#4
1,1-Dichloroethane
Concen: 665.08 ug/L
RT: 4.533 min Scan# 1041
Delta R.T. -0.020 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 63 Resp: 46719

Ion	Ratio	Lower	Upper
63	100		
65	31.4	0.4	60.4

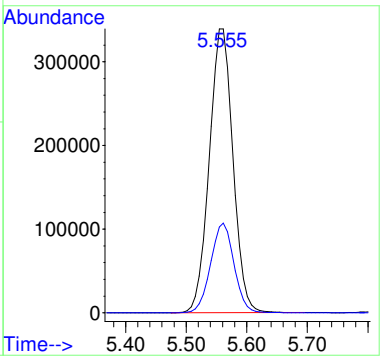


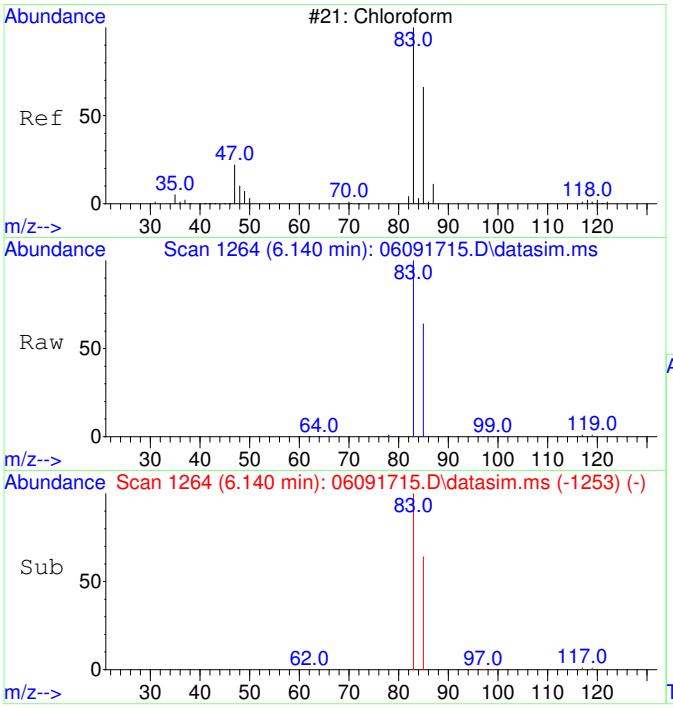


#5
cis-1,2-Dichloroethene
Concen: 13718.91 ug/L
RT: 5.555 min Scan# 1195
Delta R.T. -0.013 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 61 Resp: 921169

Ion	Ratio	Lower	Upper
61	100		
63	31.1	0.9	60.9

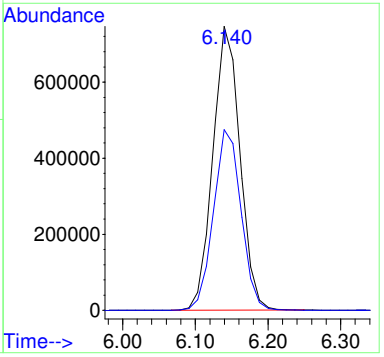


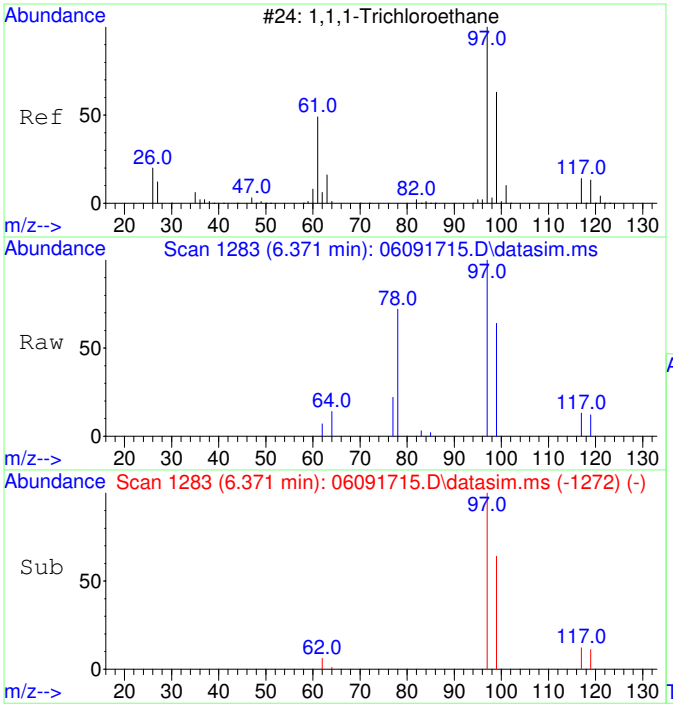


#6
Chloroform
Concen: 29826.16 ug/L
RT: 6.140 min Scan# 1264
Delta R.T. -0.012 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 83 Resp: 1937925

Ion	Ratio	Lower	Upper
83	100		
85	64.4	33.7	93.7

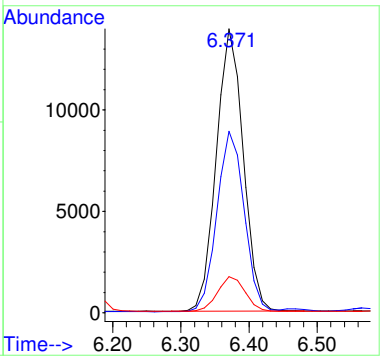


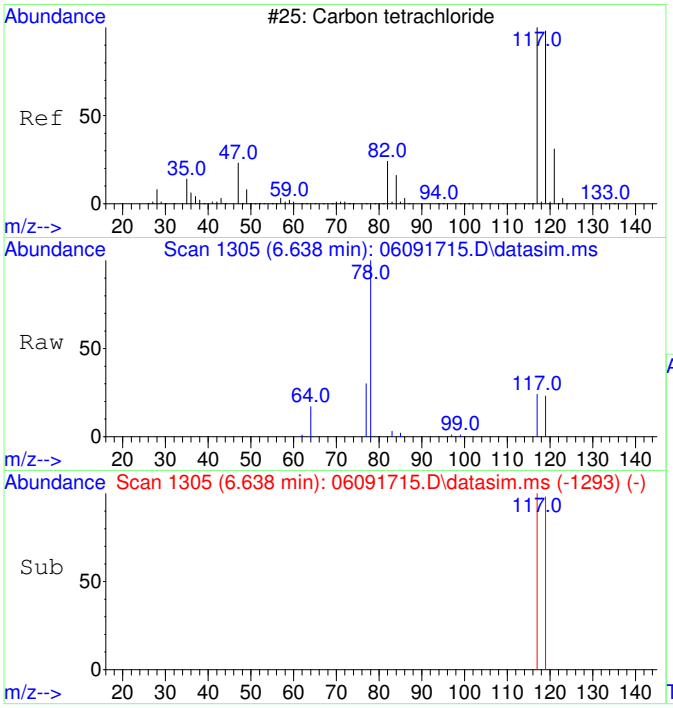


#7
1,1,1-Trichloroethane
Concen: 638.00 ug/L
RT: 6.371 min Scan# 1283
Delta R.T. -0.012 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 97 Resp: 38072

Ion	Ratio	Lower	Upper
97	100		
99	63.9	34.3	94.3
117	12.4	0.0	42.3

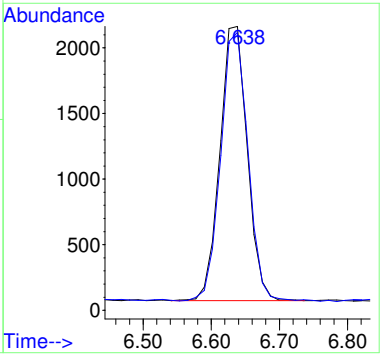


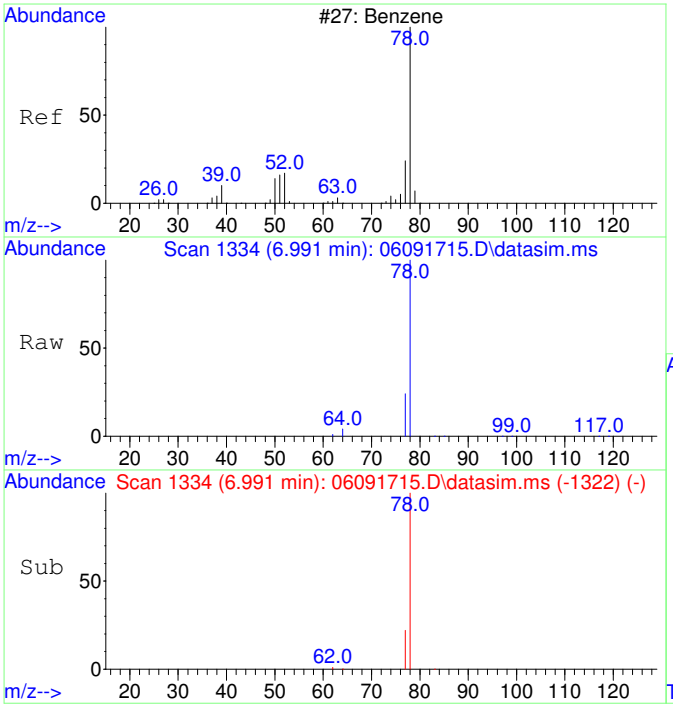


#8
Carbon tetrachloride
Concen: 112.90 ug/L
RT: 6.638 min Scan# 1305
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion:117 Resp: 5812

Ion	Ratio	Lower	Upper
117	100		
119	96.7	65.5	125.5

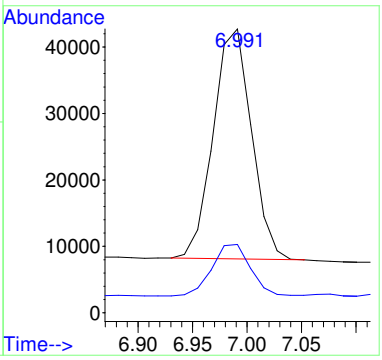


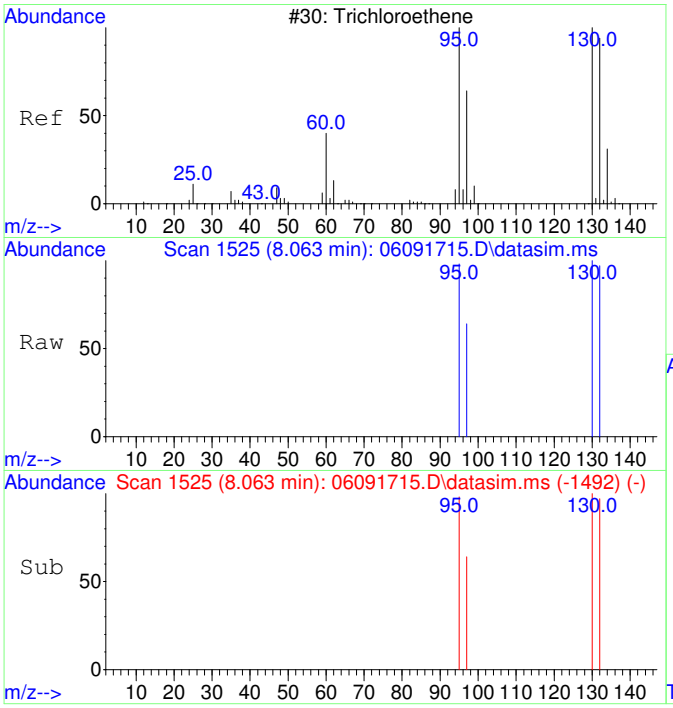


#9
Benzene
Concen: 558.98 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 78 Resp: 84579

Ion	Ratio	Lower	Upper
78	100		
77	22.3	0.0	53.0

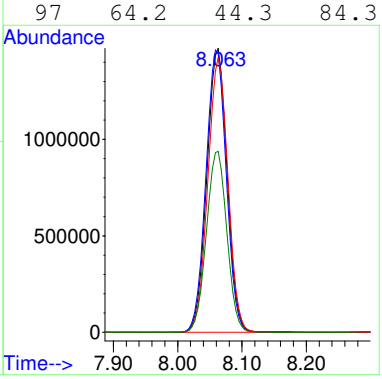


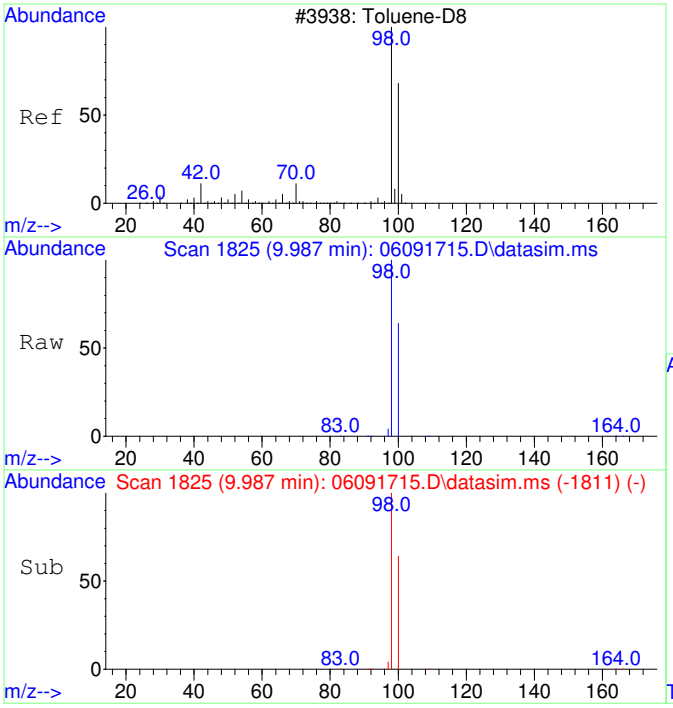


#11
Trichloroethene
Concen: 82799.02 ug/L
RT: 8.063 min Scan# 1525
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion:130 Resp: 3222021

Ion	Ratio	Lower	Upper
130	100		
95	100.0	69.8	129.8
132	96.0	76.4	116.4
97	64.2	44.3	84.3

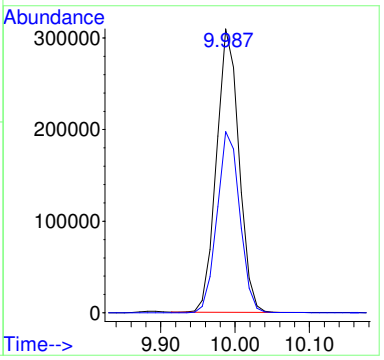


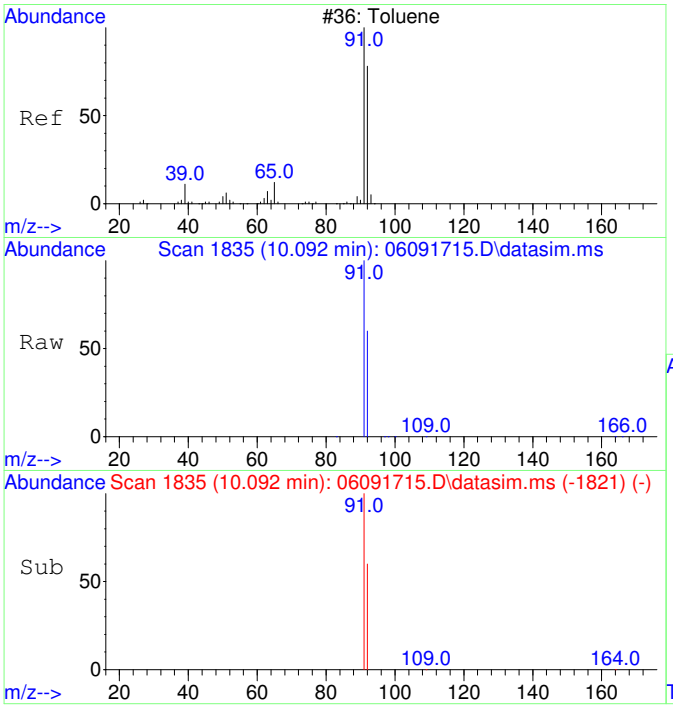


#12
Toluene-d8
Concen: 5188.46 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 98 Resp: 647814

Ion	Ratio	Lower	Upper
98	100		
100	64.4	34.2	94.2

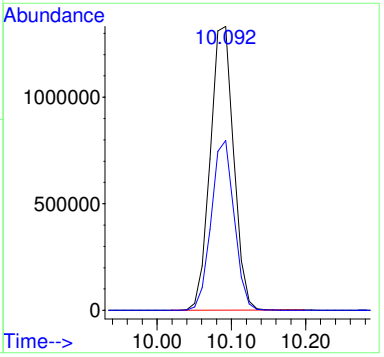


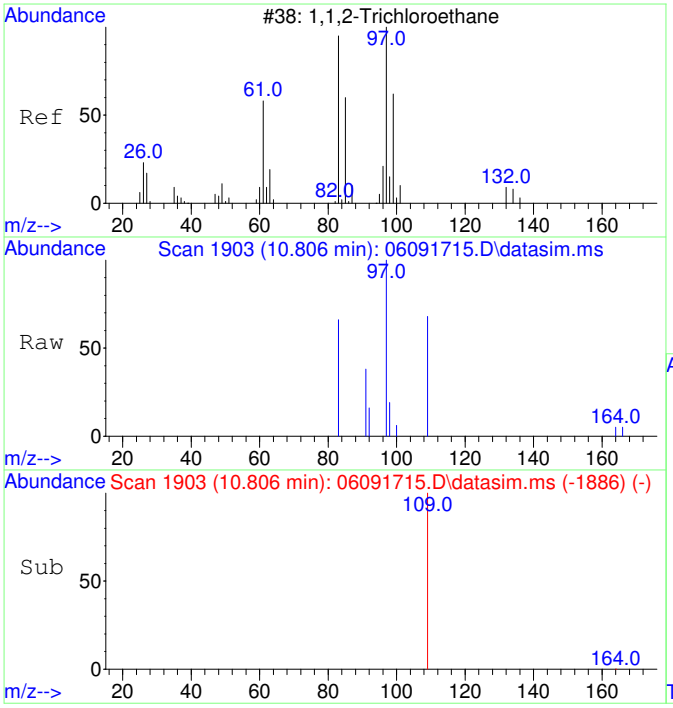


#13
Toluene
Concen: 17615.93 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 91 Resp: 2912671

Ion	Ratio	Lower	Upper
91	100		
92	58.2	28.4	88.4

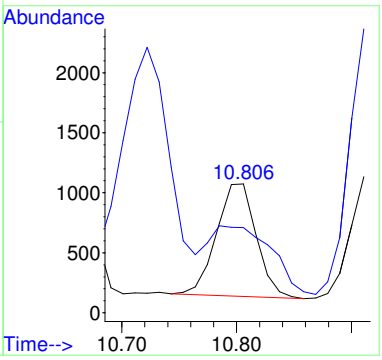


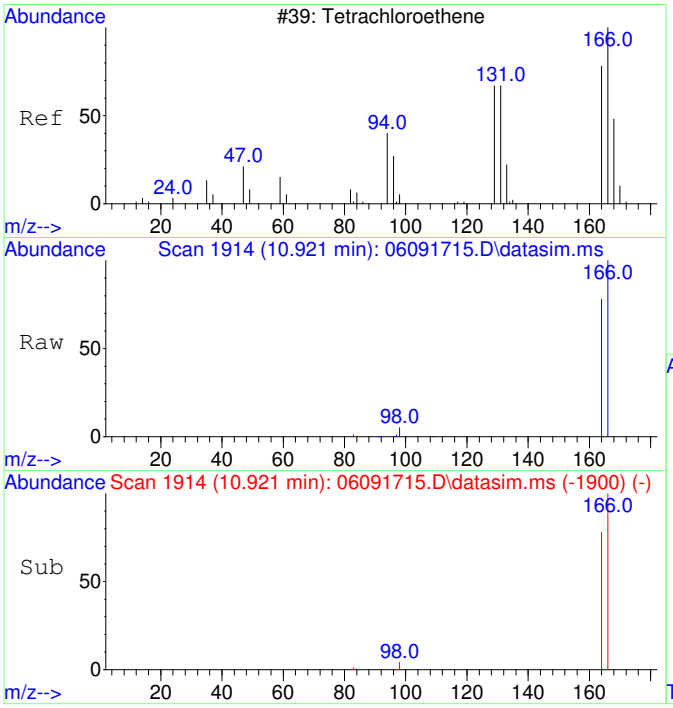


#14
1,1,2-Trichloroethane
Concen: 63.44 ug/L
RT: 10.806 min Scan# 1903
Delta R.T. 0.032 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 97 Resp: 2243

Ion	Ratio	Lower	Upper
97	100		
83	0.0	54.5	114.5#

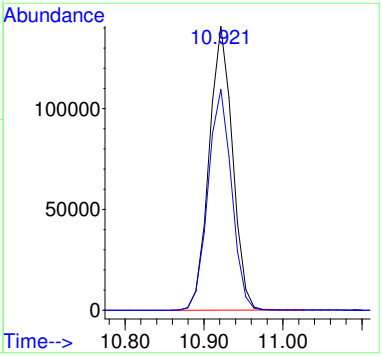


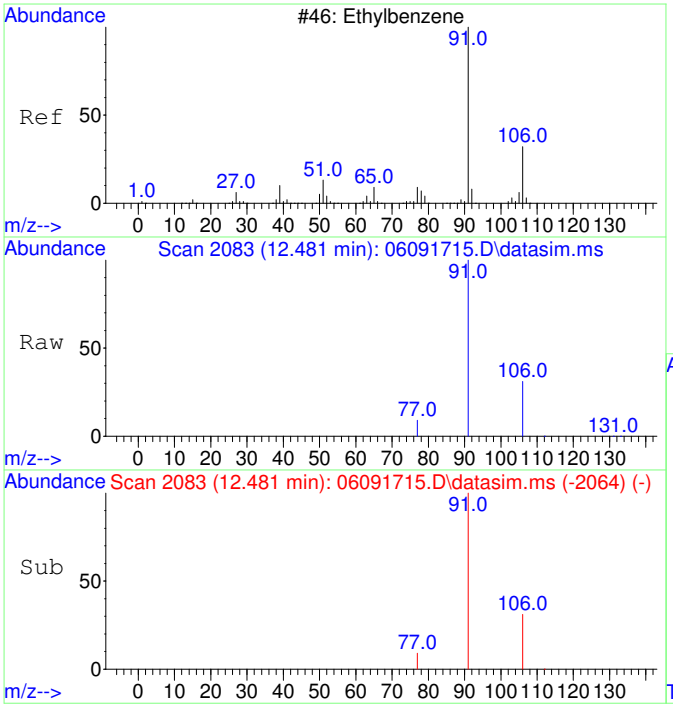


#15
Tetrachloroethene
Concen: 6813.91 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion:166 Resp: 288766

Ion	Ratio	Lower	Upper
166	100		
164	78.0	48.1	108.1

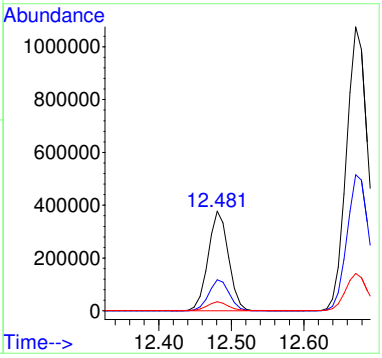


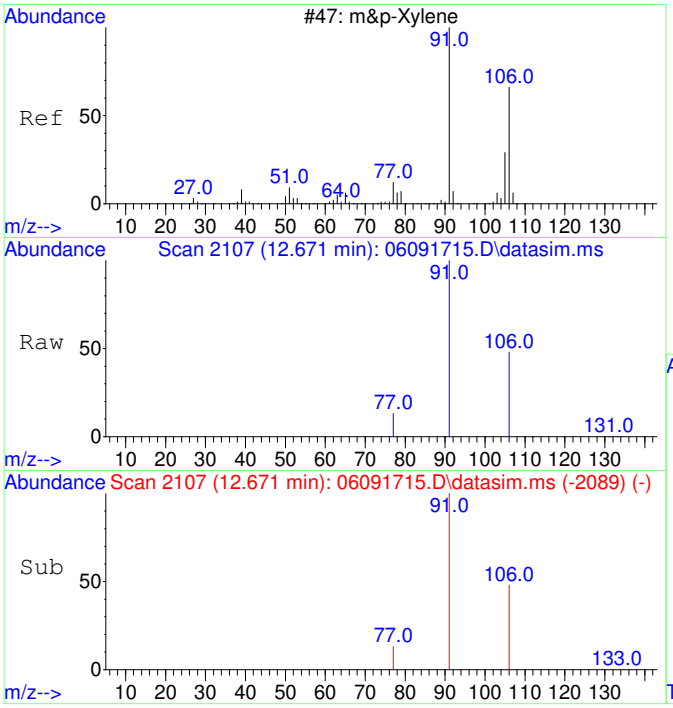


#18
Ethylbenzene
Concen: 4129.86 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 91 Resp: 734883

Ion	Ratio	Lower	Upper
91	100		
106	31.4	1.2	61.2
77	8.7	0.0	38.6

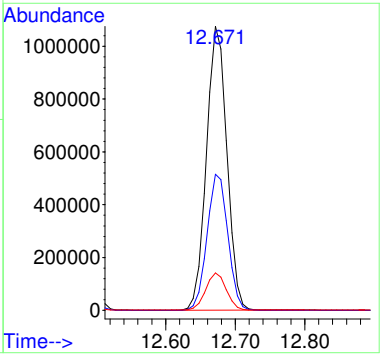


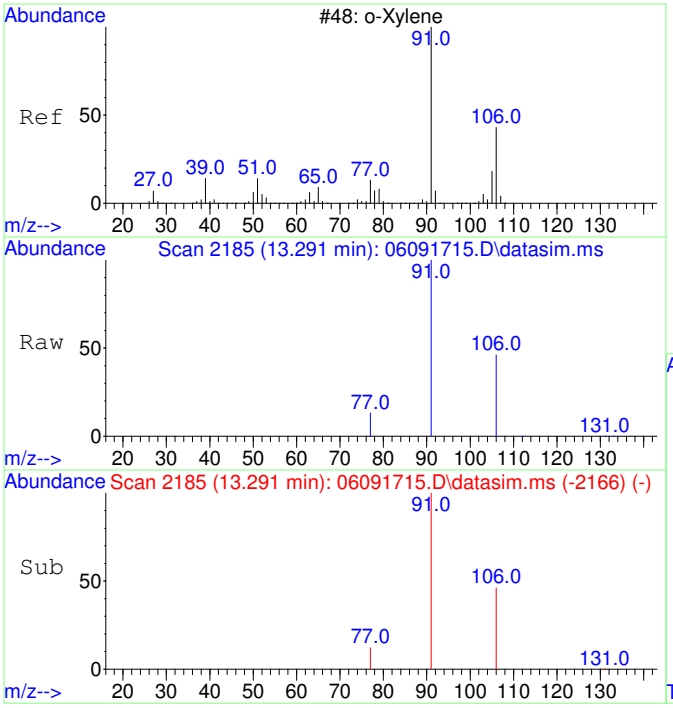


#19
m&p-Xylene
Concen: 15736.17 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 91 Resp: 2196659

Ion	Ratio	Lower	Upper
91	100		
106	48.4	18.4	78.4
77	12.9	0.0	43.1

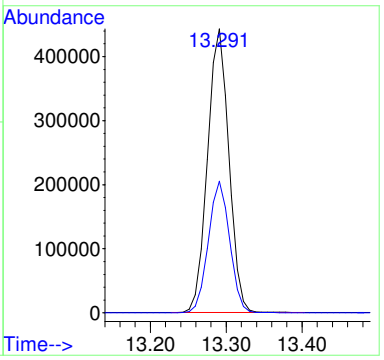


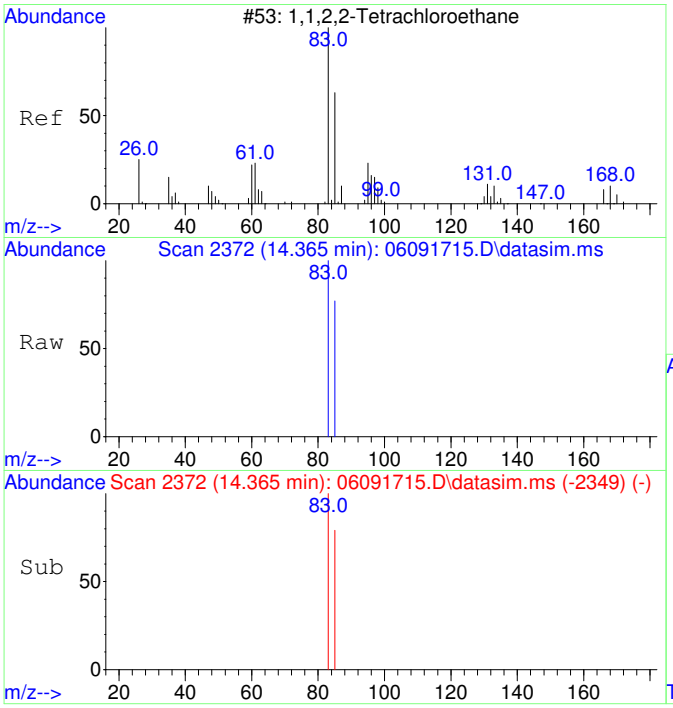


#20
o-Xylene
Concen: 5998.39 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 91 Resp: 865970

Ion	Ratio	Lower	Upper
91	100		
106	45.9	16.0	76.0

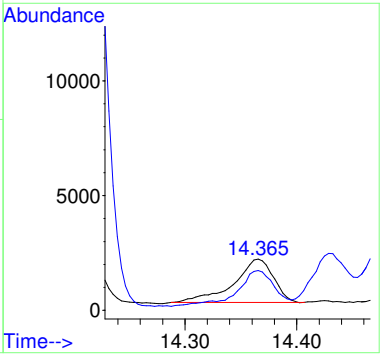


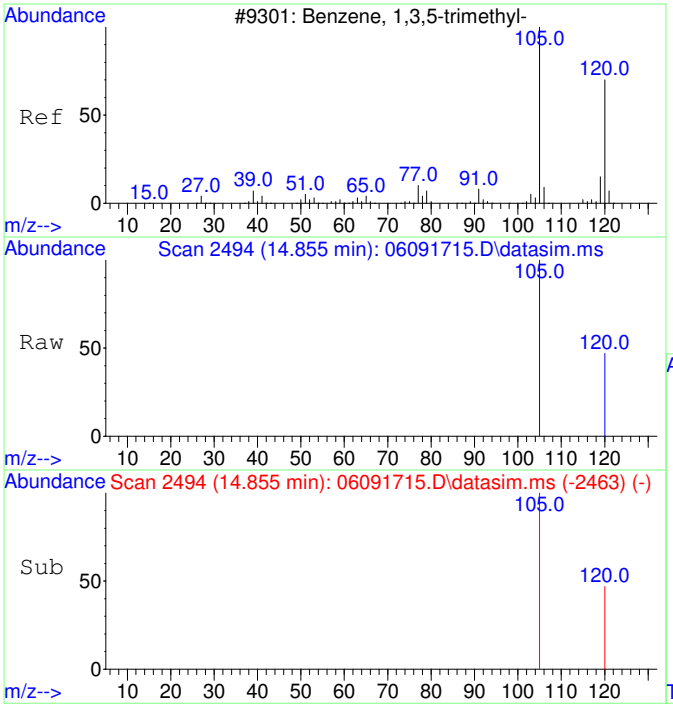


#21
1,1,2,2-Tetrachloroethane
Concen: 75.80 ug/L
RT: 14.365 min Scan# 2372
Delta R.T. -0.063 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 83 Resp: 4654

Ion	Ratio	Lower	Upper
83	100		
85	48.7	34.1	94.1

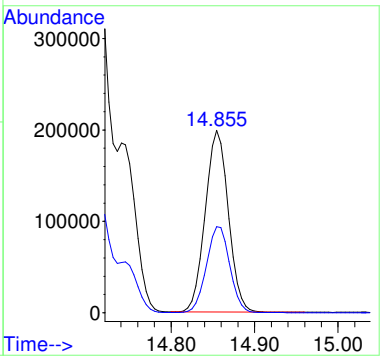


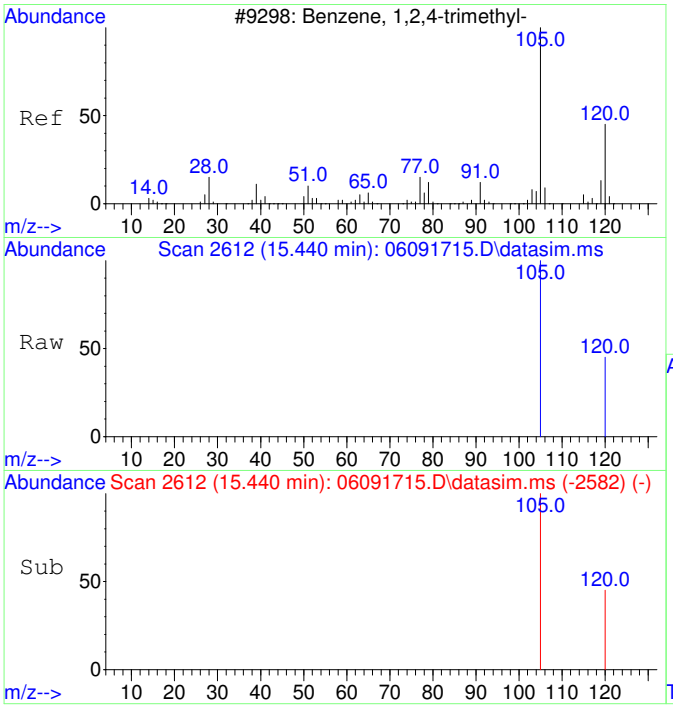


#22
1,3,5-Trimethylbenzene
Concen: 2684.72 ug/L
RT: 14.855 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion:105 Resp: 382693

Ion	Ratio	Lower	Upper
105	100		
120	47.6	18.0	78.0

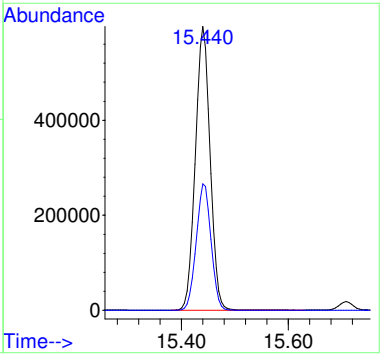


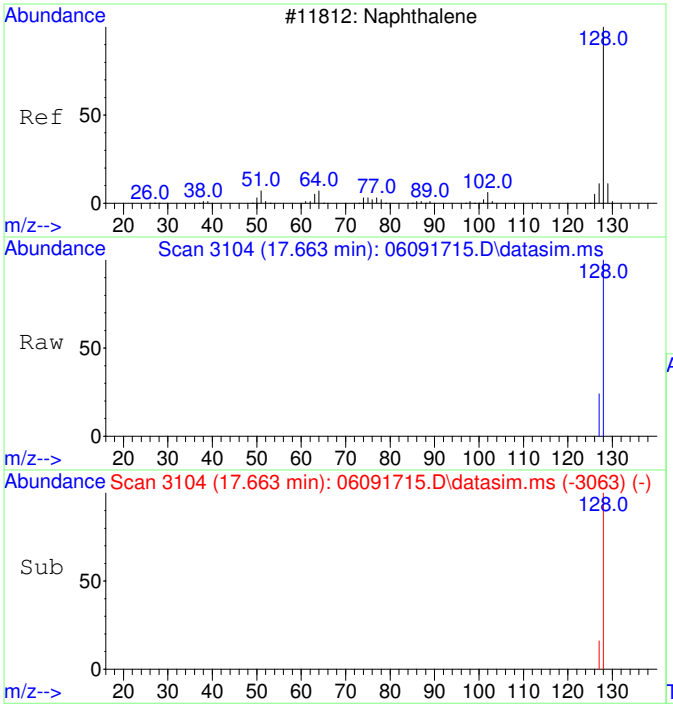


#23
1,2,4-Trimethylbenzene
Concen: 7817.68 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion:105 Resp: 1142413

Ion	Ratio	Lower	Upper
105	100		
120	44.7	14.4	74.4

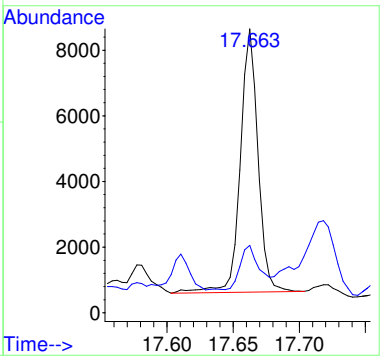


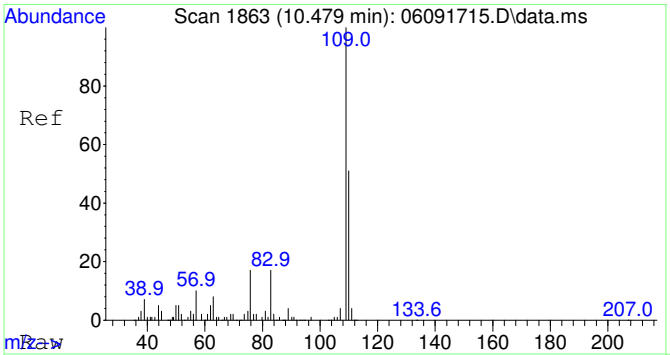


#24
Naphthalene
Concen: 34.42 ug/L
RT: 17.663 min Scan# 3104
Delta R.T. 0.001 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion:128 Resp: 7450

Ion	Ratio	Lower	Upper
128	100		
127	13.3	0.0	42.7

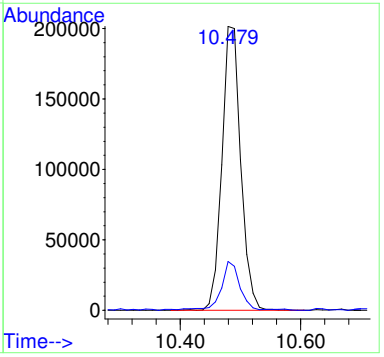


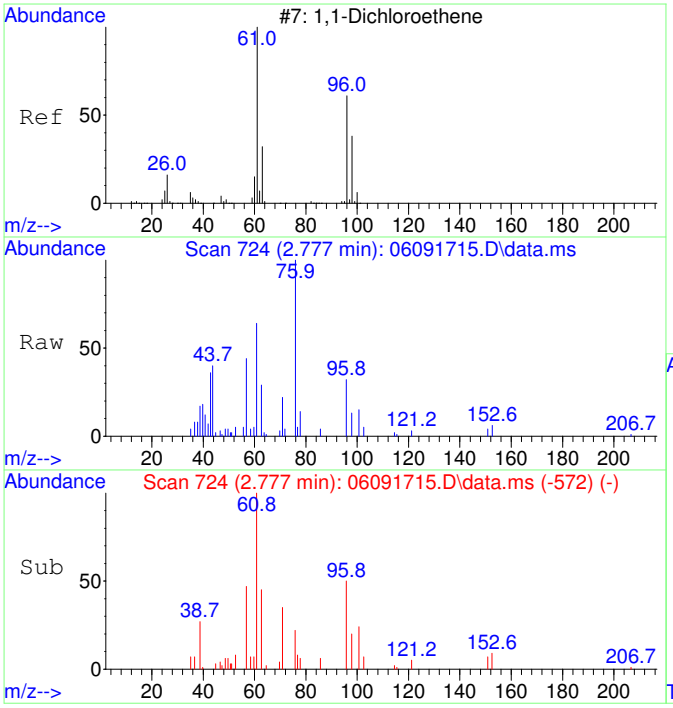


#25
2-Fluorotoluene SCAN
Concen: 4787.58 ug/L
RT: 10.479 min Scan# 1863
Delta R.T. -0.010 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion:109 Resp: 442541

Ion	Ratio	Lower	Upper
109	100		
83	16.5	0.0	46.1

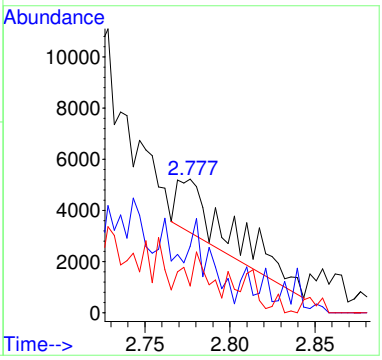


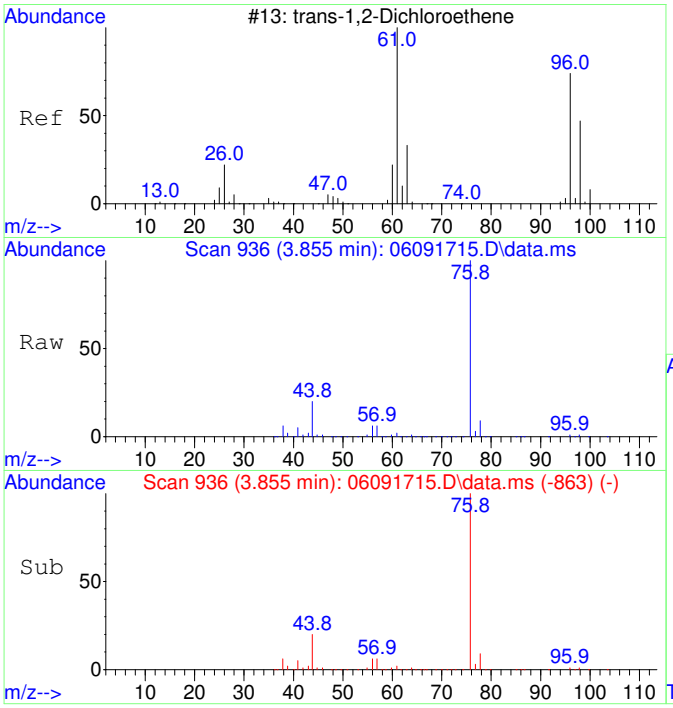


#26
1,1-Dichloroethene SCAN
Concen: 112.44 ug/L
RT: 2.777 min Scan# 724
Delta R.T. 0.063 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 61 Resp: 4373

Ion	Ratio	Lower	Upper
61	100		
96	27.7	16.7	76.7
98	28.2	0.0	45.3

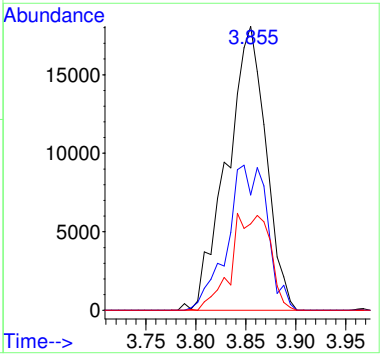


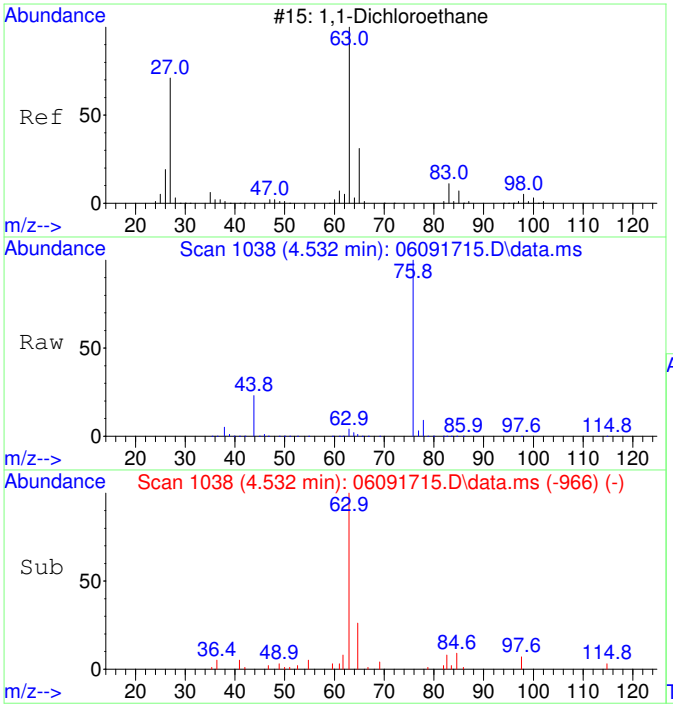


#27
trans-1,2-Dichloroethene SCAN
Concen: 1183.53 ug/L
RT: 3.855 min Scan# 936
Delta R.T. -0.013 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 61 Resp: 49123

Ion	Ratio	Lower	Upper
61	100		
96	52.4	26.1	86.1
98	33.8	4.4	64.4

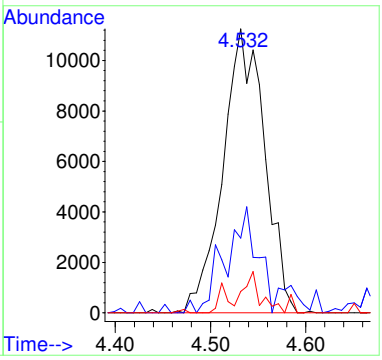


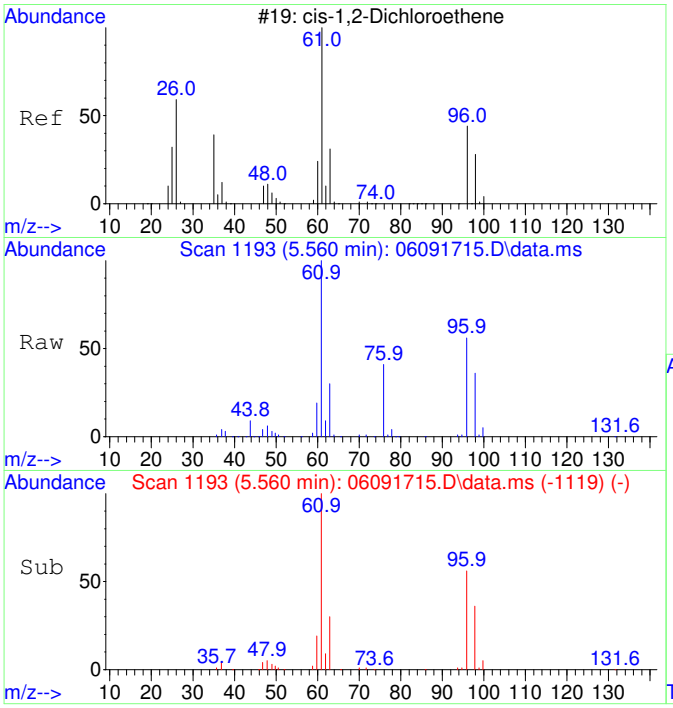


#28
1,1-Dichloroethane SCAN
Concen: 726.03 ug/L
RT: 4.532 min Scan# 1038
Delta R.T. -0.020 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 63 Resp: 34357

Ion	Ratio	Lower	Upper
63	100		
65	28.0	1.1	61.1
83	4.6	0.0	31.5

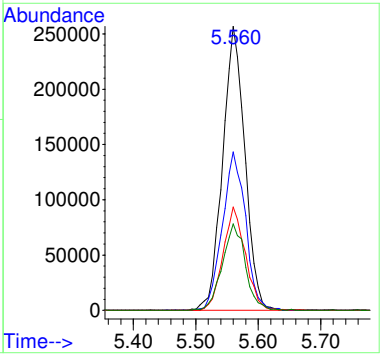


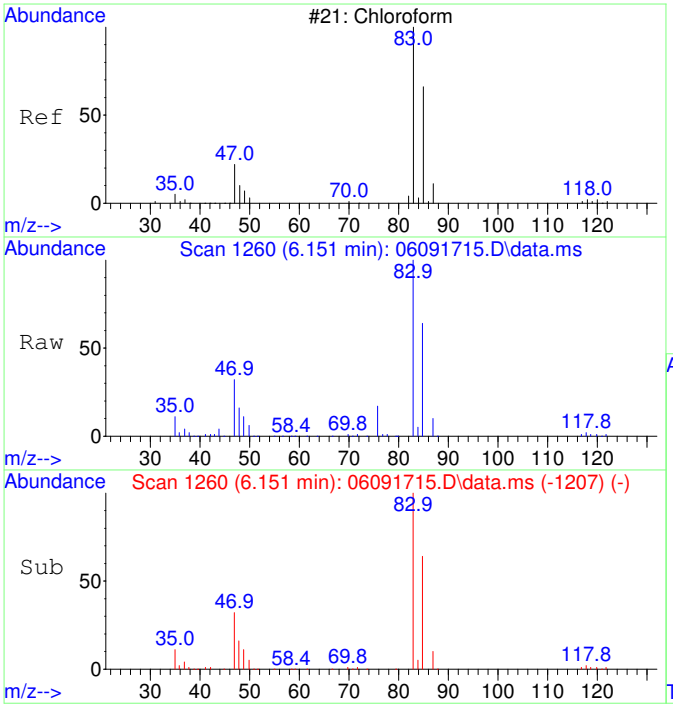


#29
cis-1,2-Dichloroethene SCAN
Concen: 13279.38 ug/L
RT: 5.560 min Scan# 1193
Delta R.T. -0.006 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 61 Resp: 635820

Ion	Ratio	Lower	Upper
61	100		
96	58.0	17.5	77.5
98	36.6	1.9	61.9
63	31.4	0.1	60.1

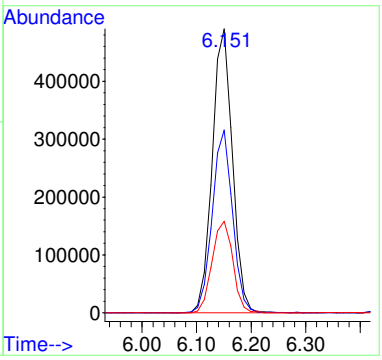


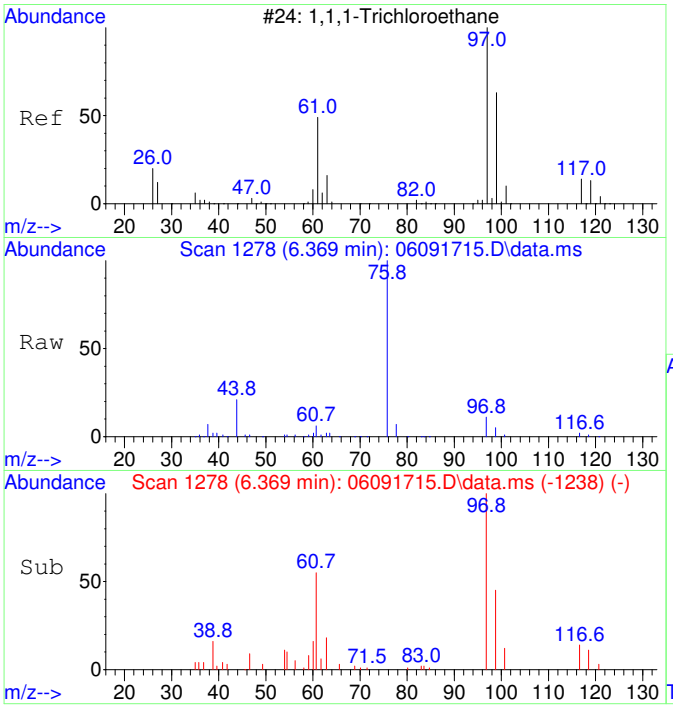


#30
Chloroform SCAN
Concen: 29223.64 ug/L
RT: 6.151 min Scan# 1260
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 83 Resp: 1261747

Ion	Ratio	Lower	Upper
83	100		
85	64.9	31.2	91.2
47	33.2	3.2	63.2

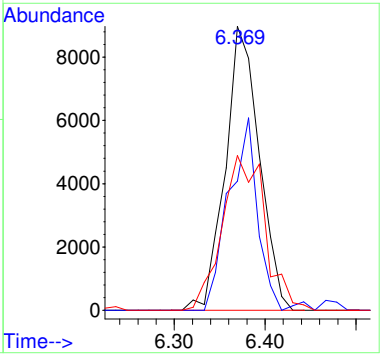


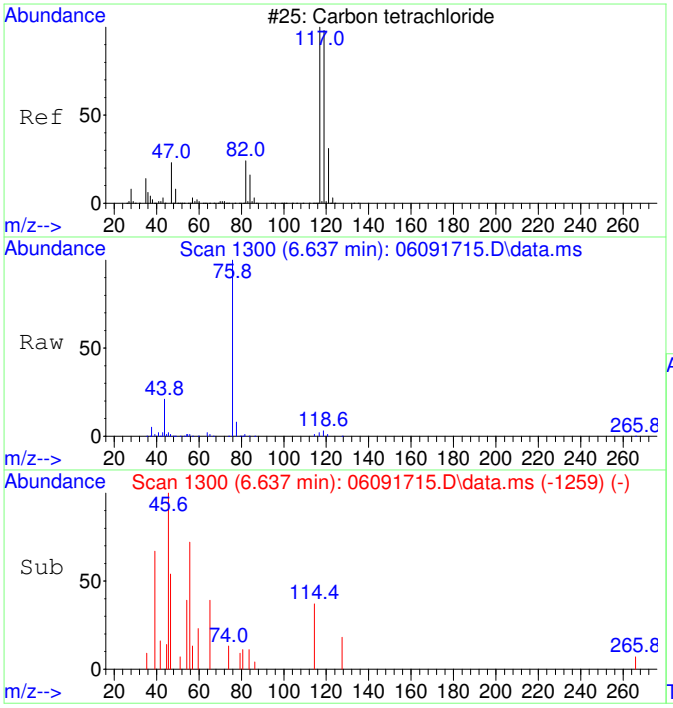


#31
1,1,1-Trichloroethane SCAN
Concen: 657.59 ug/L
RT: 6.369 min Scan# 1278
Delta R.T. -0.012 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 97 Resp: 23365

Ion	Ratio	Lower	Upper
97	100		
99	55.4	38.7	98.7
61	68.9	27.8	87.8

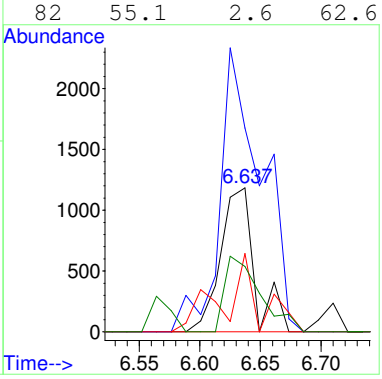


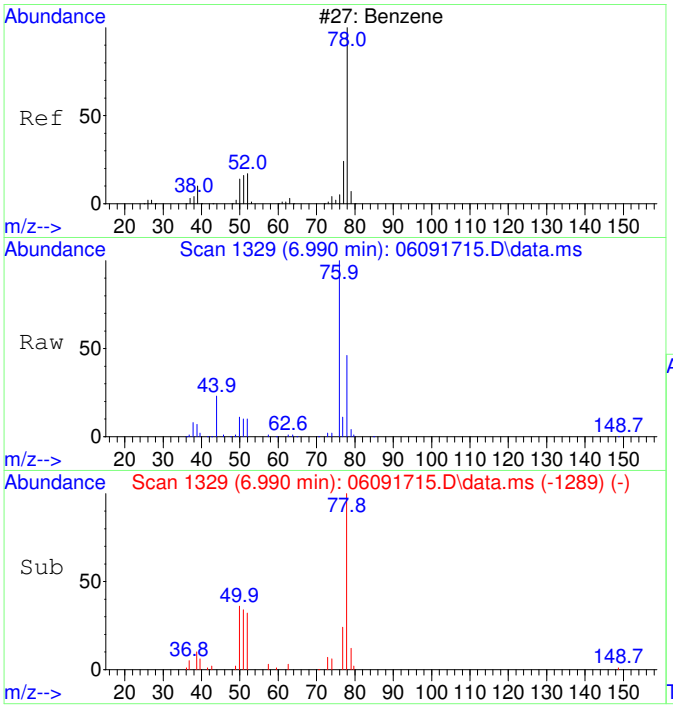


#32
Carbon tetrachloride SCAN
Concen: 70.84 ug/L
RT: 6.637 min Scan# 1300
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion:117 Resp: 2317

Ion	Ratio	Lower	Upper
117	100		
119	242.0	66.8	126.8#
121	17.7	0.4	60.4
82	55.1	2.6	62.6

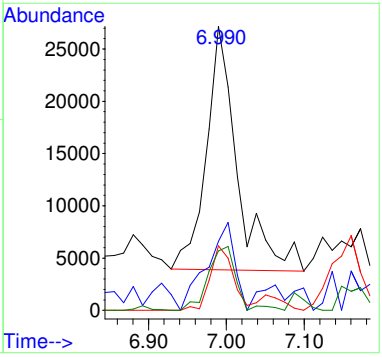


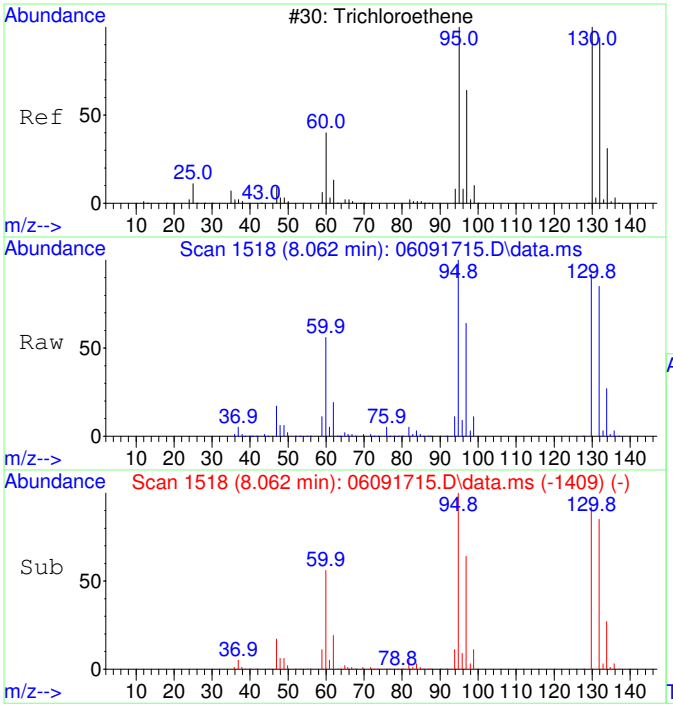


#33
Benzene SCAN
Concen: 661.65 ug/L
RT: 6.990 min Scan# 1329
Delta R.T. -0.012 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 78 Resp: 64746

Ion	Ratio	Lower	Upper
78	100		
77	32.1	0.0	55.2
51	16.5	0.0	52.4
52	21.9	0.0	53.3

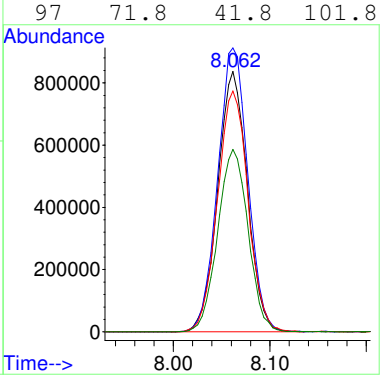


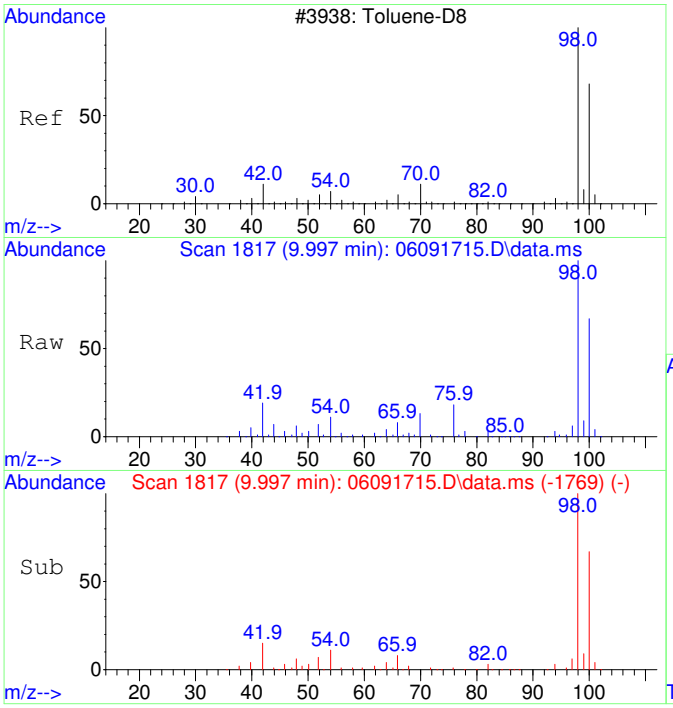


#35
Trichloroethene SCAN
Concen: 78765.27 ug/L
RT: 8.062 min Scan# 1518
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion:130 Resp: 1784896

Ion	Ratio	Lower	Upper
130	100		
95	111.0	76.1	136.1
132	95.3	65.6	125.6
97	71.8	41.8	101.8

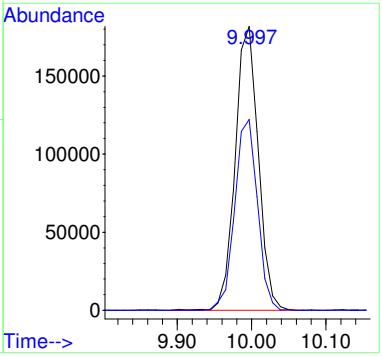


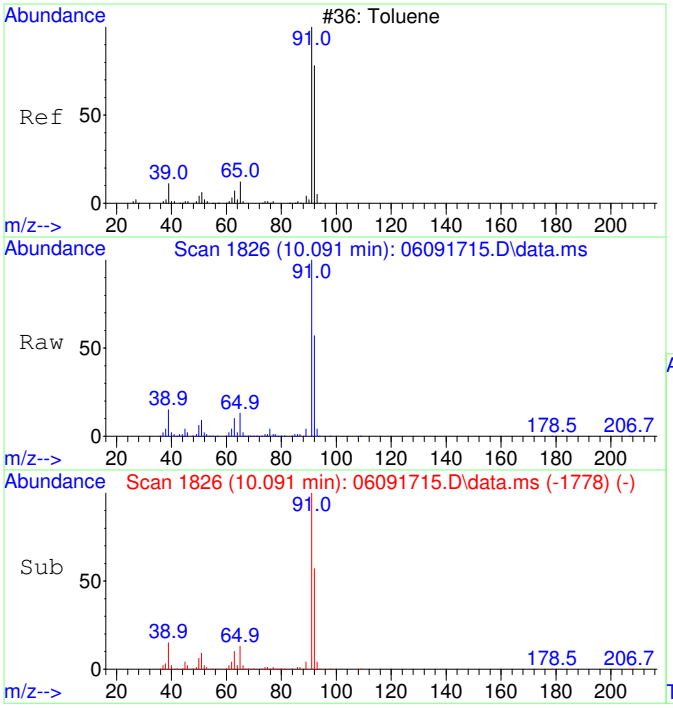


#36
Toluene-d8 SCAN
Concen: 5136.33 ug/L
RT: 9.997 min Scan# 1817
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 98 Resp: 391839

Ion	Ratio	Lower	Upper
98	100		
100	66.2	36.2	96.2

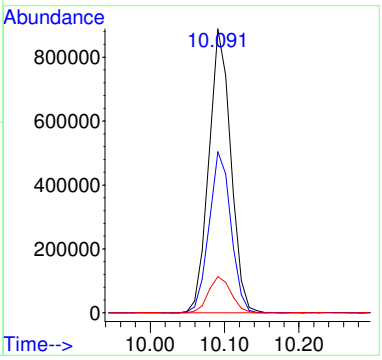


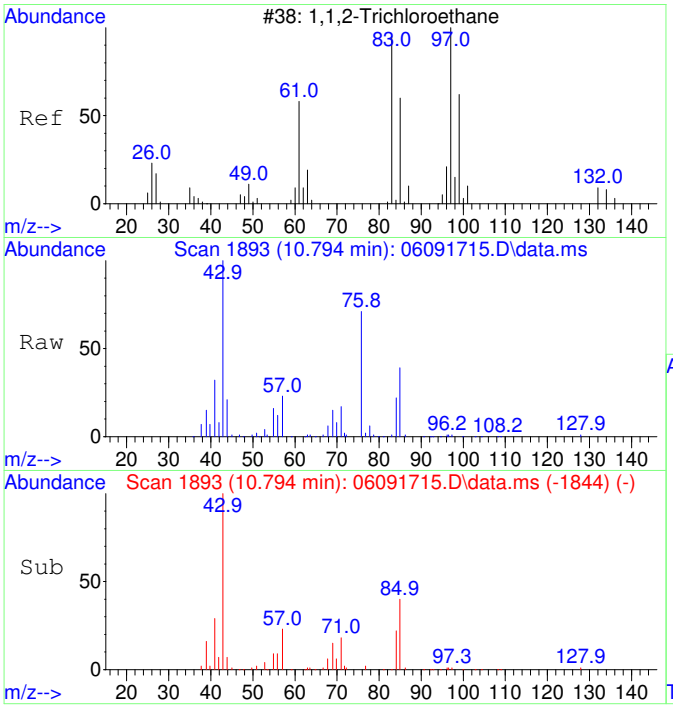


#37
Toluene SCAN
Concen: 17922.36 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 91 Resp: 1823594

Ion	Ratio	Lower	Upper
91	100		
92	56.4	29.2	89.2
65	13.1	0.0	44.3

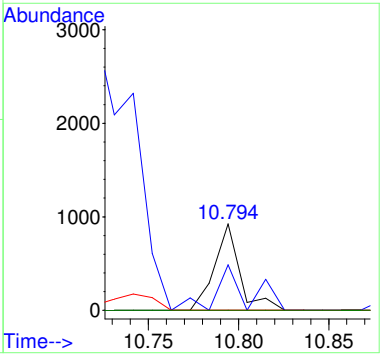


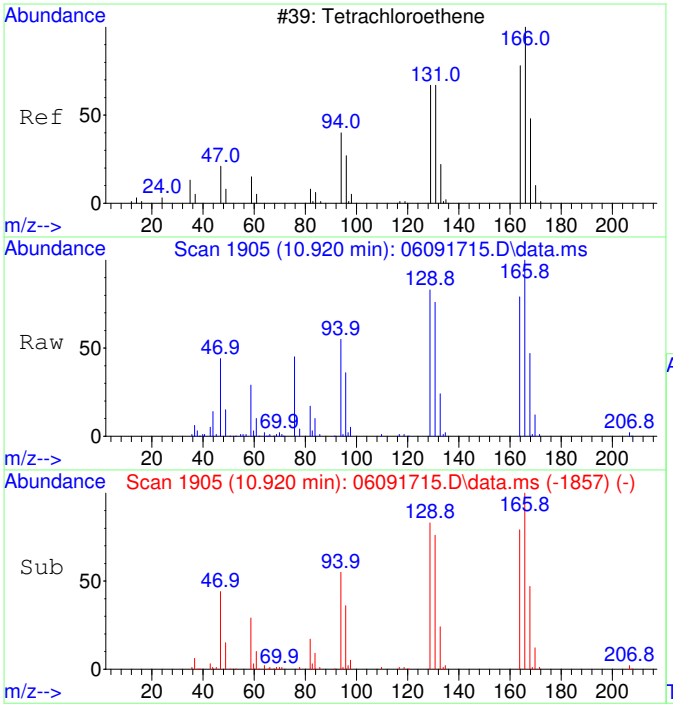


#38
1,1,2-Trichloroethane SCAN
Concen: 39.23 ug/L
RT: 10.794 min Scan# 1893
Delta R.T. 0.011 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 97 Resp: 899

Ion	Ratio	Lower	Upper
97	100		
83	57.4	57.8	117.8#
61	0.0	48.6	108.6#
99	0.0	32.7	92.7#

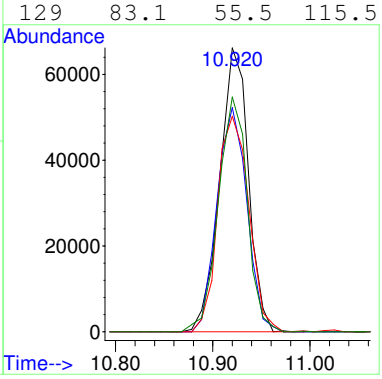


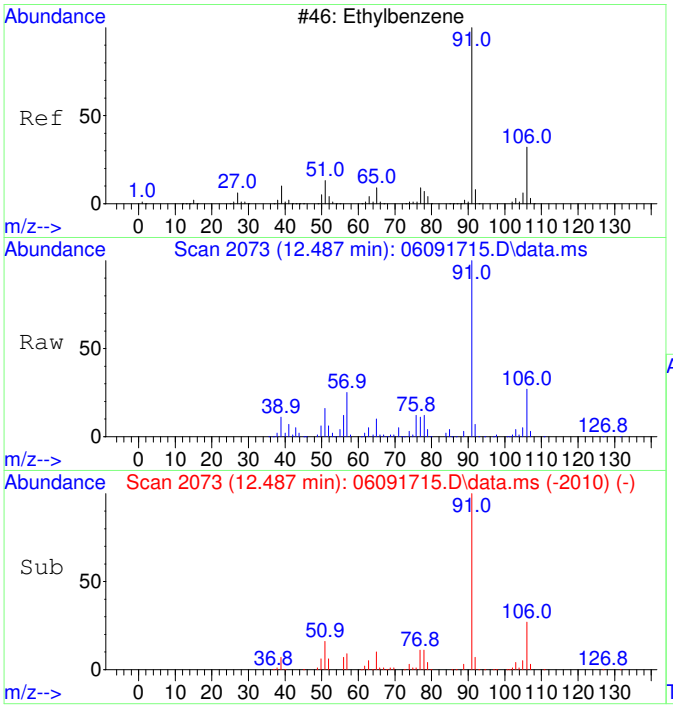


#39
Tetrachloroethene SCAN
Concen: 6502.09 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion:166 Resp: 135631

Ion	Ratio	Lower	Upper
166	100		
164	82.1	45.7	105.7
131	82.3	44.8	104.8
129	83.1	55.5	115.5

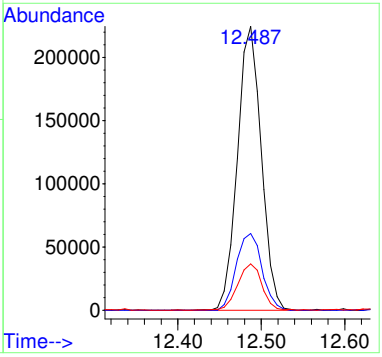


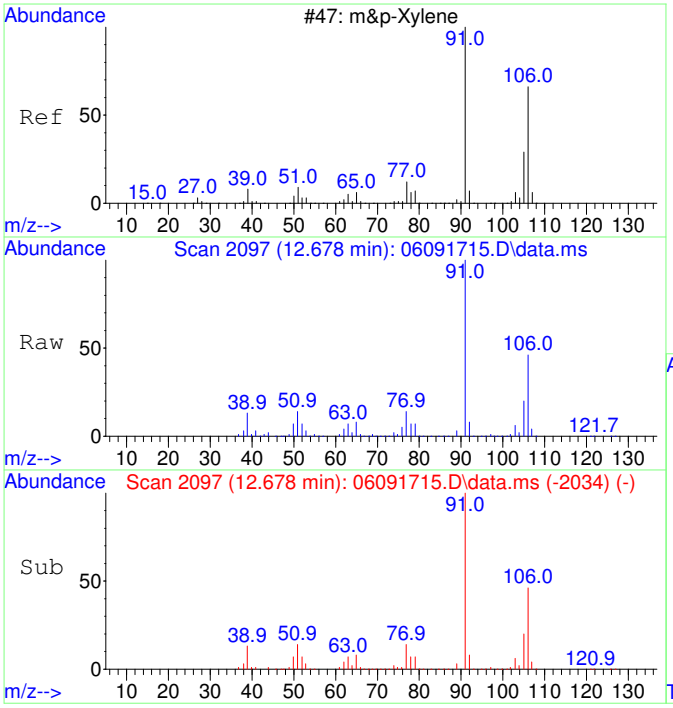


#42
Ethylbenzene SCAN
Concen: 3922.53 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 91 Resp: 446895

Ion	Ratio	Lower	Upper
91	100		
106	29.1	0.0	59.8
51	16.7	0.0	45.5

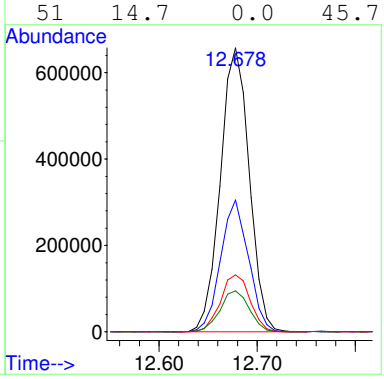


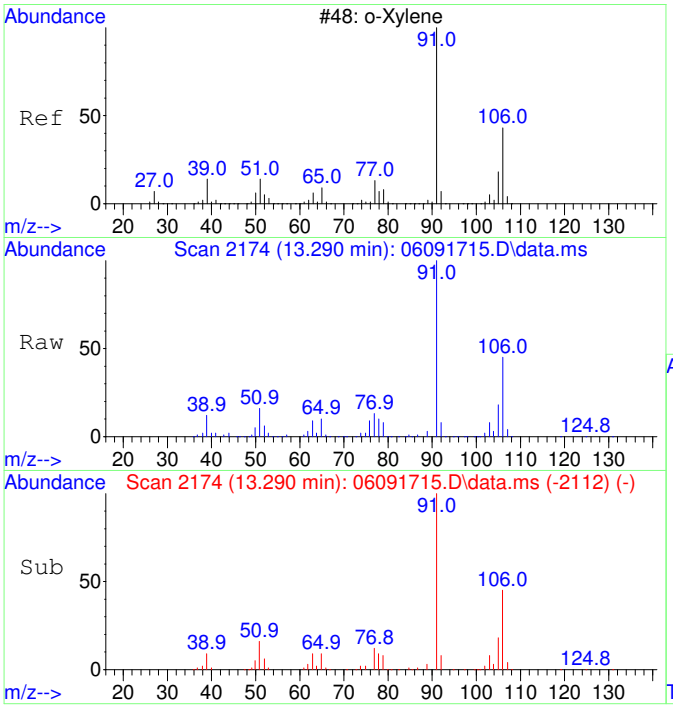


#43
m&p-Xylene SCAN
Concen: 7526.47 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 91 Resp: 1338828

Ion	Ratio	Lower	Upper
91	100		
106	45.0	18.5	78.5
105	20.6	0.0	51.3
51	14.7	0.0	45.7

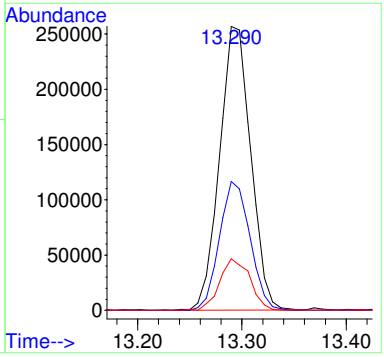


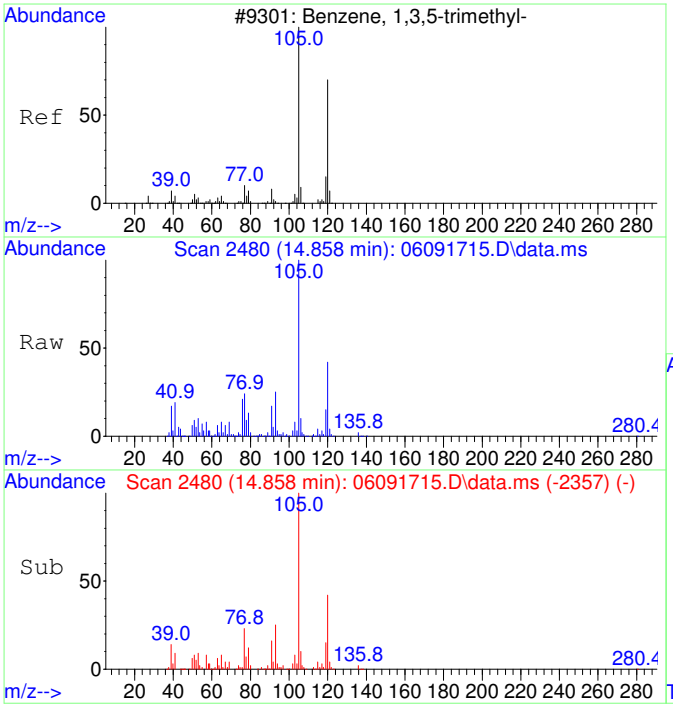


#44
o-Xylene SCAN
Concen: 5813.44 ug/L
RT: 13.290 min Scan# 2174
Delta R.T. -0.008 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion: 91 Resp: 532509

Ion	Ratio	Lower	Upper
91	100		
106	44.6	15.5	75.5
105	17.7	0.0	54.1

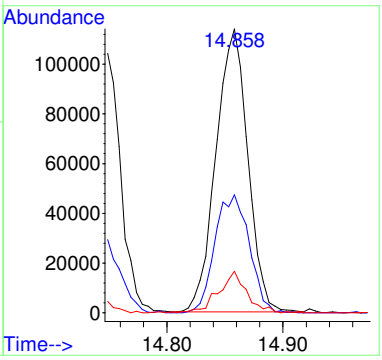


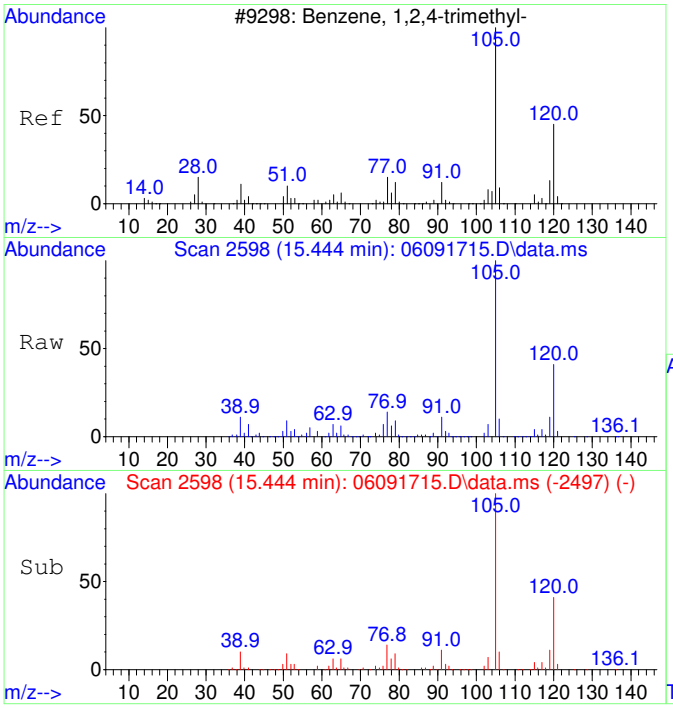


#46
1,3,5-Trimethylbenzene SCAN
Concen: 2493.92 ug/L
RT: 14.858 min Scan# 2480
Delta R.T. 0.001 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion:105 Resp: 216691

Ion	Ratio	Lower	Upper
105	100		
120	45.2	17.3	77.3
119	12.7	0.0	42.7

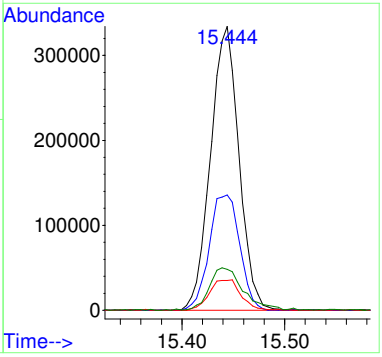


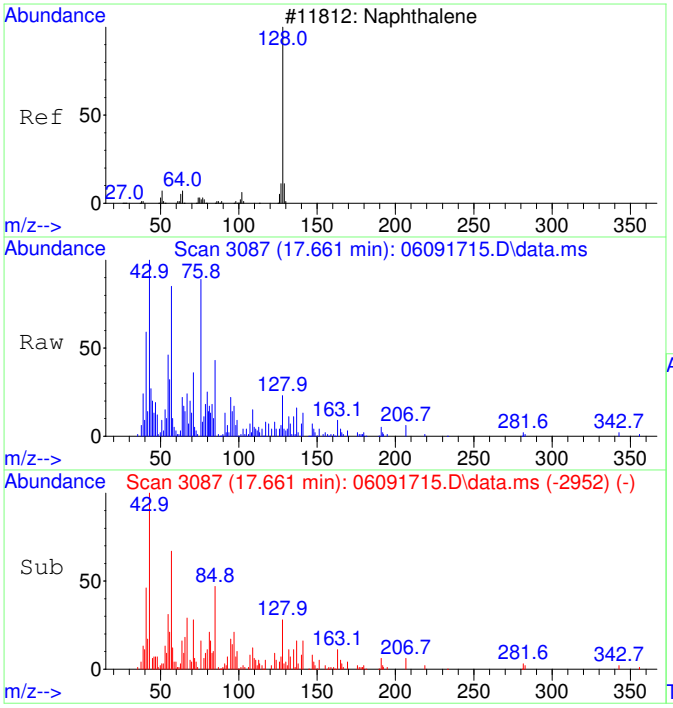


#47
1,2,4-Trimethylbenzene SCAN
Concen: 7077.19 ug/L
RT: 15.444 min Scan# 2598
Delta R.T. 0.001 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion:105 Resp: 640806

Ion	Ratio	Lower	Upper
105	100		
120	43.6	12.9	72.9
119	12.0	0.0	40.5
77	17.2	0.0	43.3

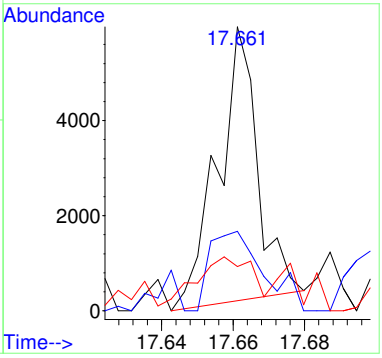




#48
Naphthalene SCAN
Concen: 35.82 ug/L
RT: 17.661 min Scan# 3087
Delta R.T. 0.001 min
Lab File: 06091715.D
Acq: 9 Jun 2017 16:05

Tgt Ion:128 Resp: 4473

Ion	Ratio	Lower	Upper
128	100		
127	39.2	0.0	43.9
129	38.3	0.0	41.0



1706012-08

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091716.D
Acq On : 9 Jun 2017 16:29
InstName : AG5975C
Operator : RH
Sample : 1706012-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 09 16:57:53 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

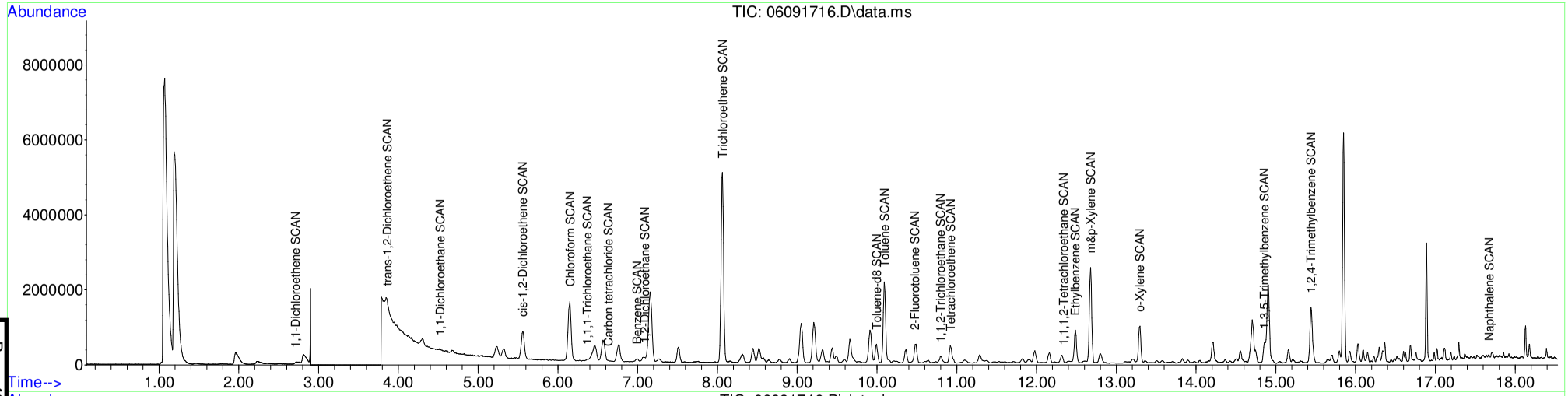
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.480	109	711572	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	611993	5251.66 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 105.03%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.714	61	88382	1574.90 ug/L	100
3] trans-1,2-Dichloroethene	3.856	61	75427	1240.08 ug/L	97
4] 1,1-Dichloroethane	4.539	63	63461	967.95 ug/L	99
5] cis-1,2-Dichloroethene	5.554	61	972511	15518.03 ug/L	100
6] Chloroform	6.139	83	2328710	38400.56 ug/L	99
7] 1,1,1-Trichloroethane	6.370	97	44181	793.25 ug/L	99
8] Carbon tetrachloride	6.638	117	6290	130.92 ug/L	99
9] Benzene	6.991	78	101788	720.76 ug/L	98
10] 1,2-Dichloroethane	7.051	62	1271	24.29 ug/L	94
11] Trichloroethene	8.063	130	3227601	88866.57 ug/L	100
13] Toluene	10.092	91	2789377	18075.20 ug/L	99
14] 1,1,2-Trichloroethane	10.795	97	2472	74.91 ug/L	71
15] Tetrachloroethene	10.921	166	273213	6907.38 ug/L	100
18] Ethylbenzene	12.480	91	932737	5616.14 ug/L	100
19] m&p-Xylene	12.671	91	2792931	21436.73 ug/L	100
20] o-Xylene	13.290	91	1111118	8246.20 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.362	83	3738	65.23 ug/L	84
22] 1,3,5-Trimethylbenzene	14.853	105	557566	4190.90 ug/L	100
23] 1,2,4-Trimethylbenzene	15.439	105	1613534	11830.27 ug/L	99
24] Naphthalene	17.662	128	8693	43.04 ug/L	97
25) 2-Fluorotoluene SCAN	10.479	109	414683	4806.63 ug/L	99
26) 1,1-Dichloroethene SCAN	2.713	61	17987	495.52 ug/L #	43
27) trans-1,2-Dichloroethe...	3.861	61	52017	1342.77 ug/L	95
28) 1,1-Dichloroethane SCAN	4.524	63	45890	1039.01 ug/L	95
29) cis-1,2-Dichloroethene...	5.560	61	677014	15149.66 ug/L	90
30) Chloroform SCAN	6.150	83	1485859	36872.39 ug/L	95
31) 1,1,1-Trichloroethane ...	6.369	97	35408	1067.71 ug/L	86
32) Carbon tetrachloride SCAN	6.637	117	4380	143.47 ug/L #	78
33) Benzene SCAN	6.989	78	79120	866.29 ug/L	97
34) 1,2-Dichloroethane SCAN	7.087	62	1349	34.23 ug/L #	1
35) Trichloroethene SCAN	8.061	130	1786467	84465.36 ug/L	97
36) Toluene-d8 SCAN	9.996	98	369427	5188.42 ug/L	97
37) Toluene SCAN	10.090	91	1767886	18615.86 ug/L	97
38) 1,1,2-Trichloroethane ...	10.793	97	2941	137.51 ug/L #	15
39) Tetrachloroethene SCAN	10.919	166	138696	7123.93 ug/L	99
41) 1,1,1,2-Tetrachloroeth...	12.336	131	853	46.98 ug/L #	20
42) Ethylbenzene SCAN	12.487	91	574190	5399.81 ug/L	99
43) m&p-Xylene SCAN	12.677	91	1671276	10066.46 ug/L	99
44) o-Xylene SCAN	13.297	91	679832	7951.88 ug/L	94
46) 1,3,5-Trimethylbenzene...	14.852	105	324528	4001.80 ug/L	97
47) 1,2,4-Trimethylbenzene...	15.442	105	925909	10956.32 ug/L	97
48) Naphthalene SCAN	17.668	128	4618	39.62 ug/L	87

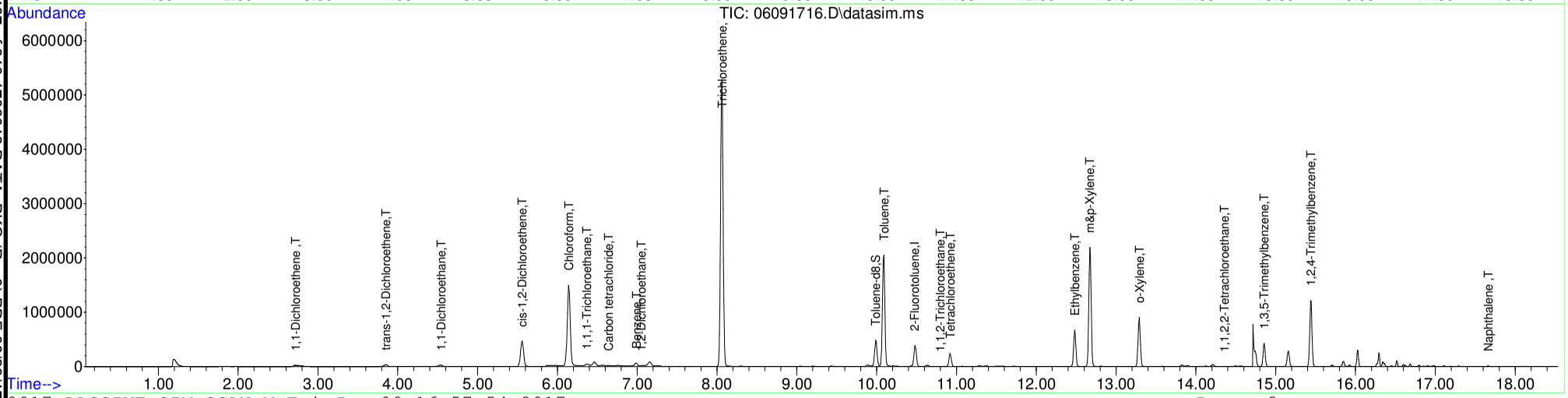
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091716.D
Acq On : 9 Jun 2017 16:29
InstName : AG5975C
Operator : RH
Sample : 1706012-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 09 16:57:53 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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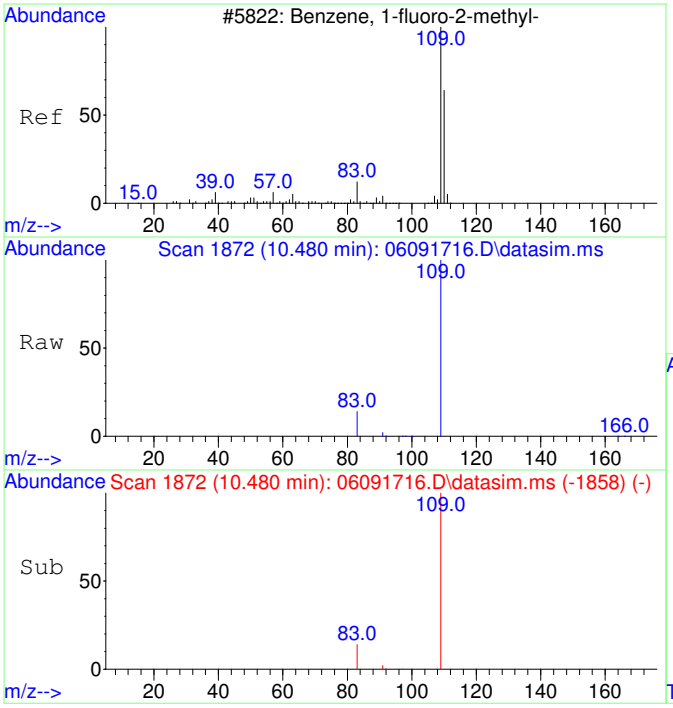
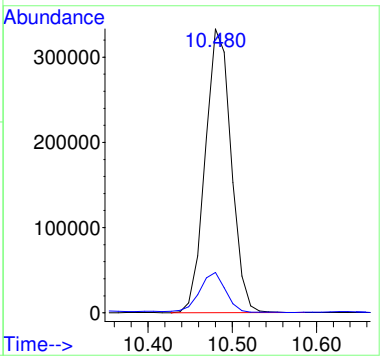
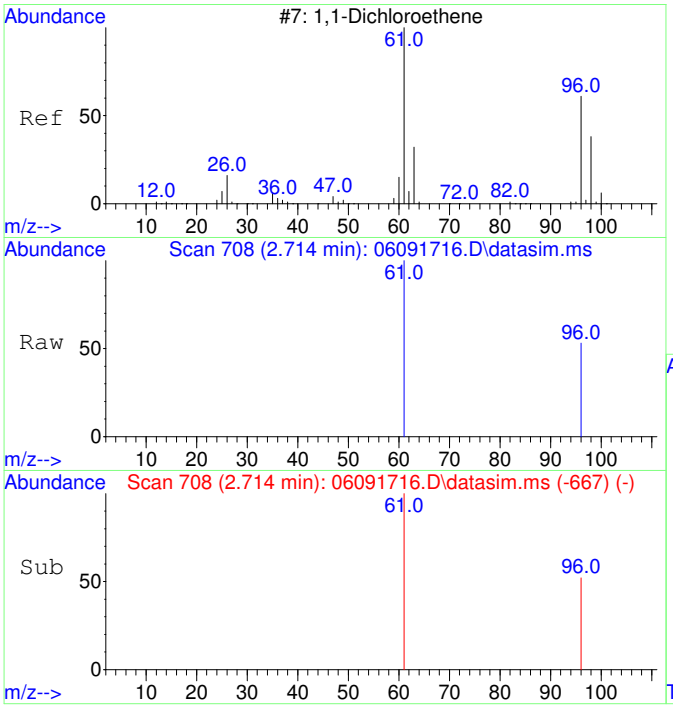


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:109 Resp: 711572

Ion	Ratio	Lower	Upper
109	100		
83	13.3	0.0	44.4

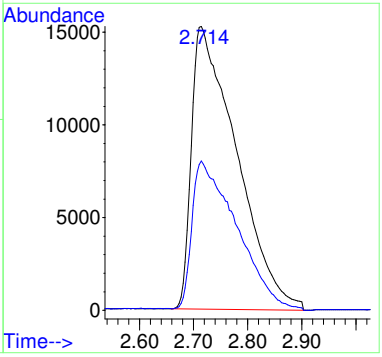


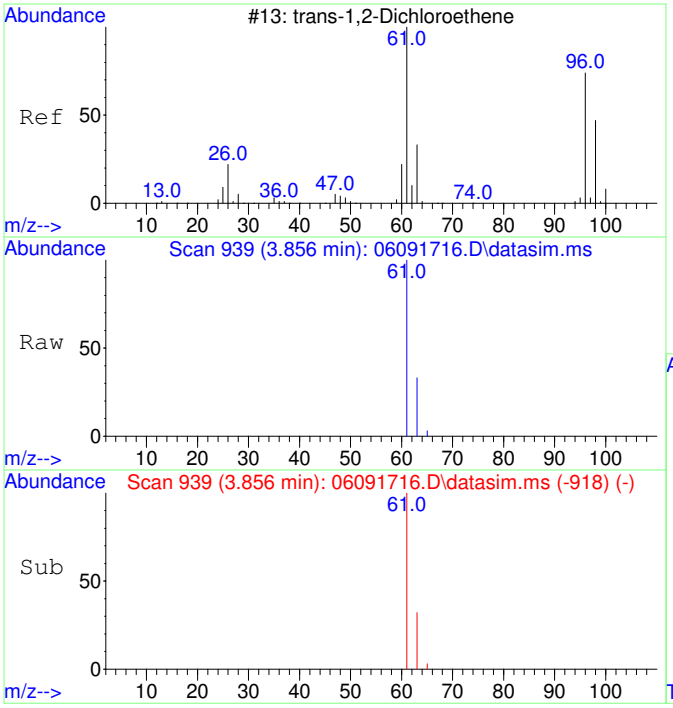


#2
1,1-Dichloroethene
Concen: 1574.90 ug/L
RT: 2.714 min Scan# 708
Delta R.T. 0.003 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 61 Resp: 88382

Ion	Ratio	Lower	Upper
61	100		
96	51.5	21.8	81.8

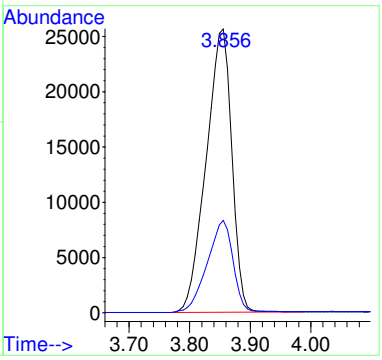


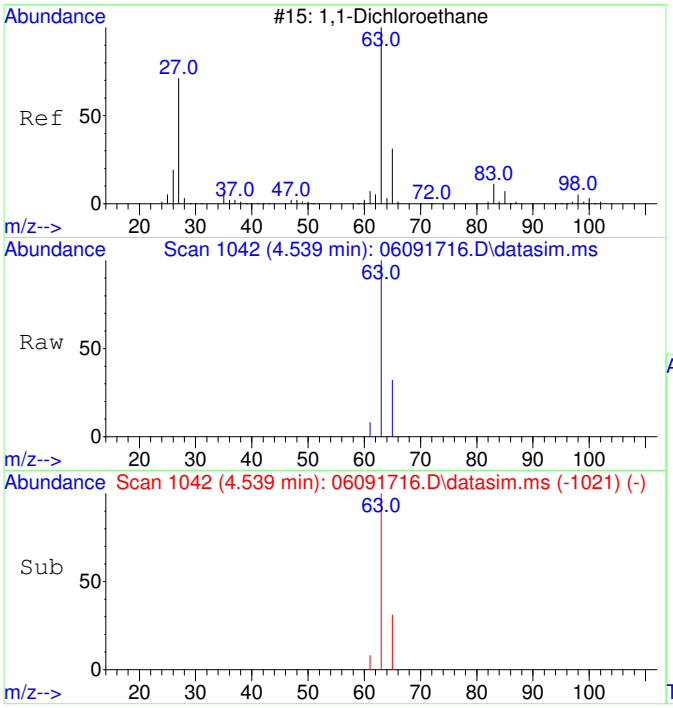


#3
trans-1,2-Dichloroethene
Concen: 1240.08 ug/L
RT: 3.856 min Scan# 939
Delta R.T. -0.014 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 61 Resp: 75427

Ion	Ratio	Lower	Upper
61	100		
63	32.4	1.0	61.0

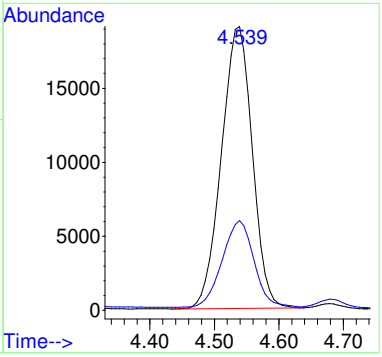


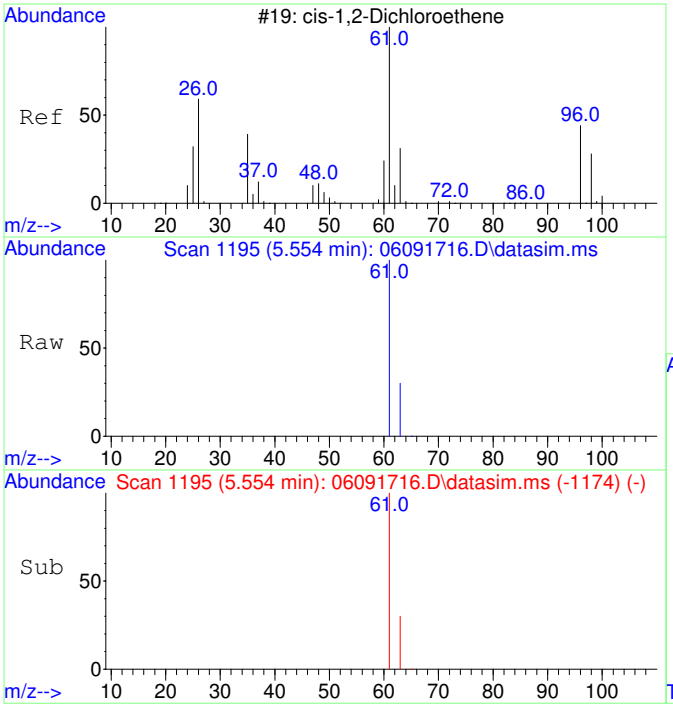


#4
1,1-Dichloroethane
Concen: 967.95 ug/L
RT: 4.539 min Scan# 1042
Delta R.T. -0.014 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 63 Resp: 63461

Ion	Ratio	Lower	Upper
63	100		
65	31.2	0.4	60.4

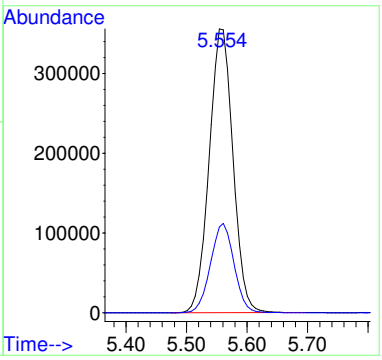


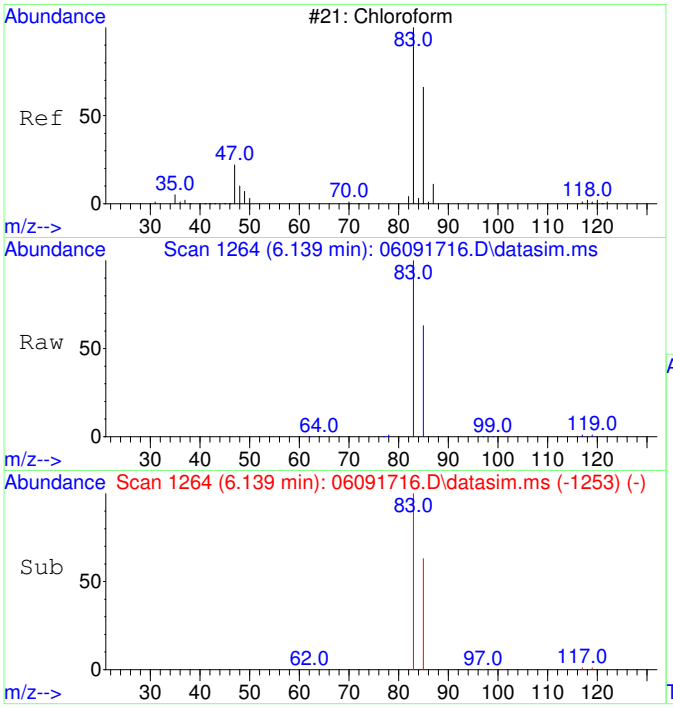


#5
cis-1,2-Dichloroethene
Concen: 15518.03 ug/L
RT: 5.554 min Scan# 1195
Delta R.T. -0.014 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 61 Resp: 972511

Ion	Ratio	Lower	Upper
61	100		
63	31.0	0.9	60.9

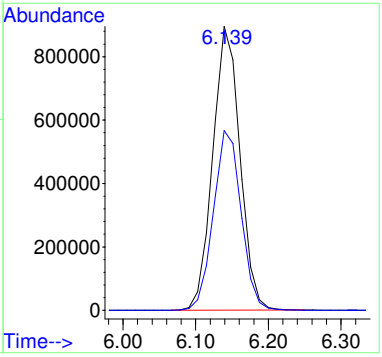


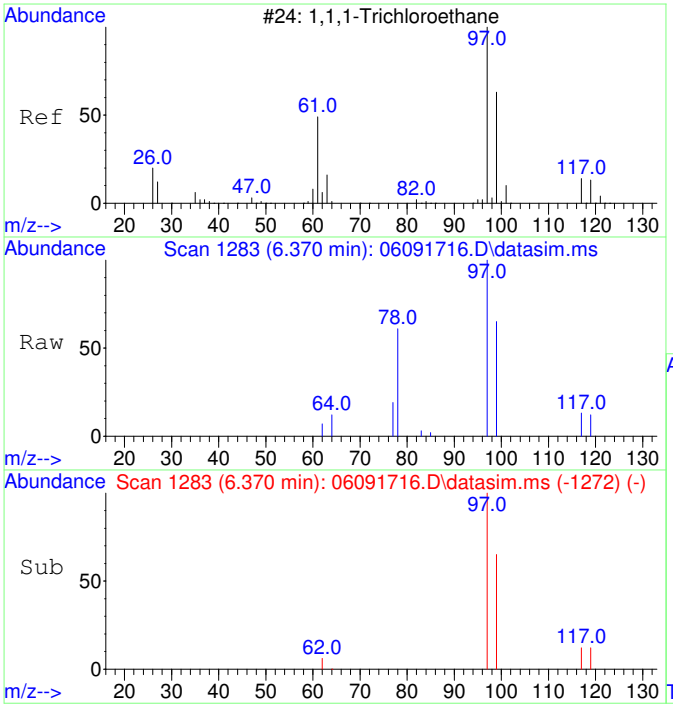


#6
Chloroform
Concen: 38400.56 ug/L
RT: 6.139 min Scan# 1264
Delta R.T. -0.012 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 83 Resp: 2328710

Ion	Ratio	Lower	Upper
83	100		
85	64.2	33.7	93.7

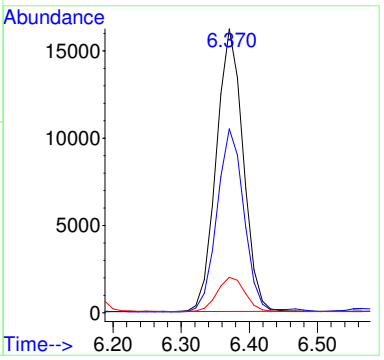


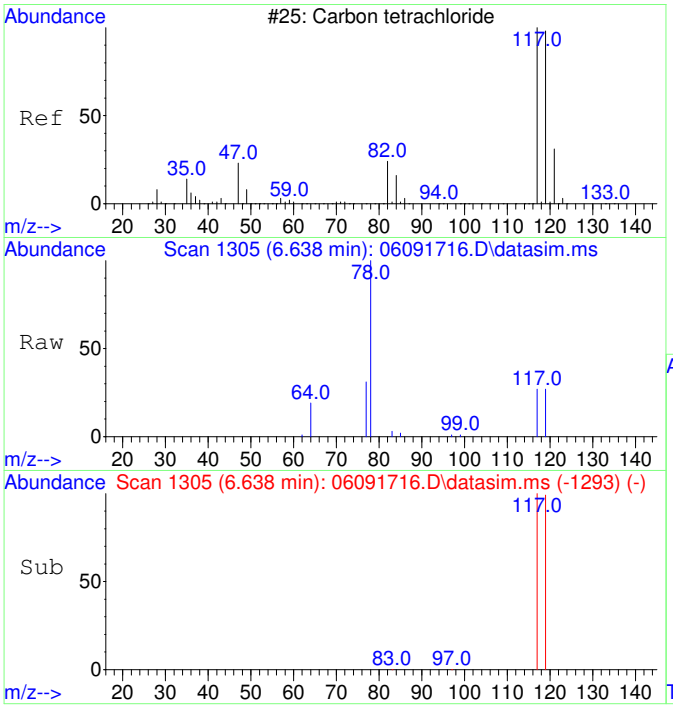


#7
1,1,1-Trichloroethane
Concen: 793.25 ug/L
RT: 6.370 min Scan# 1283
Delta R.T. -0.012 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 97 Resp: 44181

Ion	Ratio	Lower	Upper
97	100		
99	63.6	34.3	94.3
117	12.4	0.0	42.3

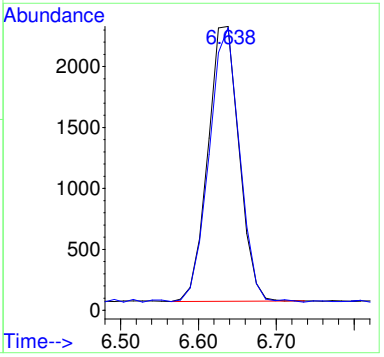


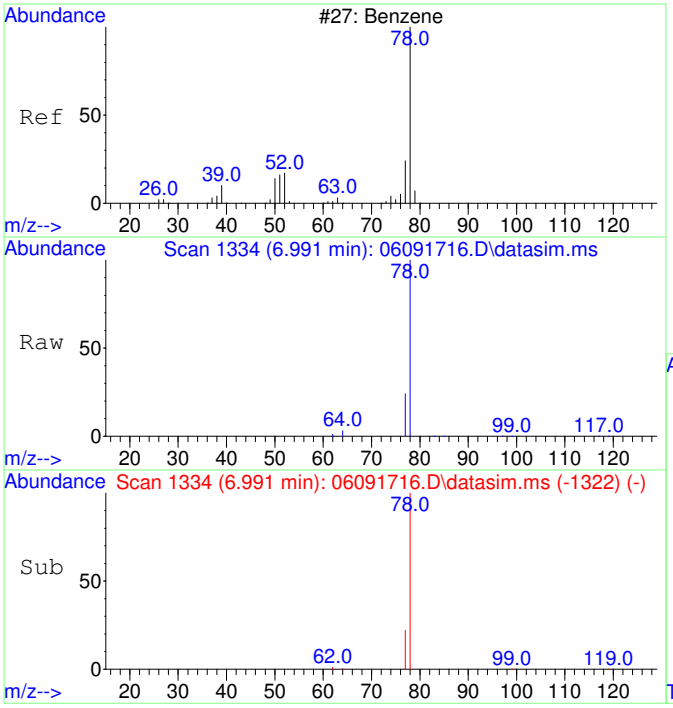


#8
Carbon tetrachloride
Concen: 130.92 ug/L
RT: 6.638 min Scan# 1305
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:117 Resp: 6290

Ion	Ratio	Lower	Upper
117	100		
119	96.2	65.5	125.5

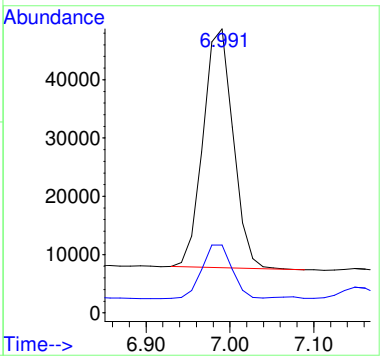


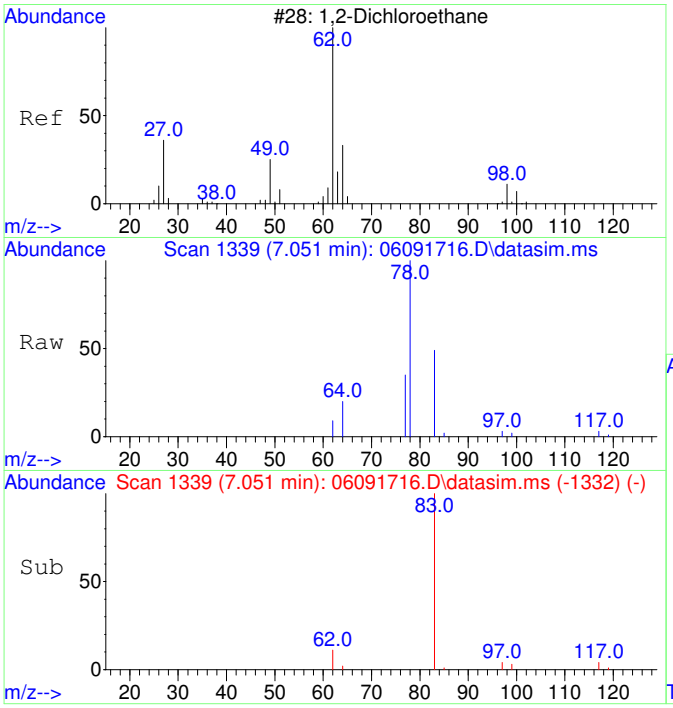


#9
Benzene
Concen: 720.76 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 78 Resp: 101788

Ion	Ratio	Lower	Upper
78	100		
77	22.2	0.0	53.0

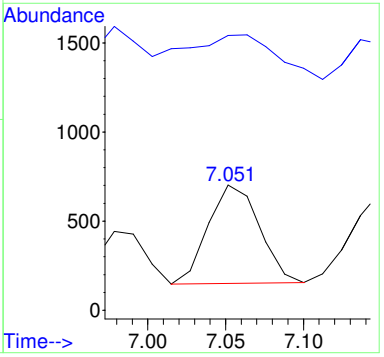


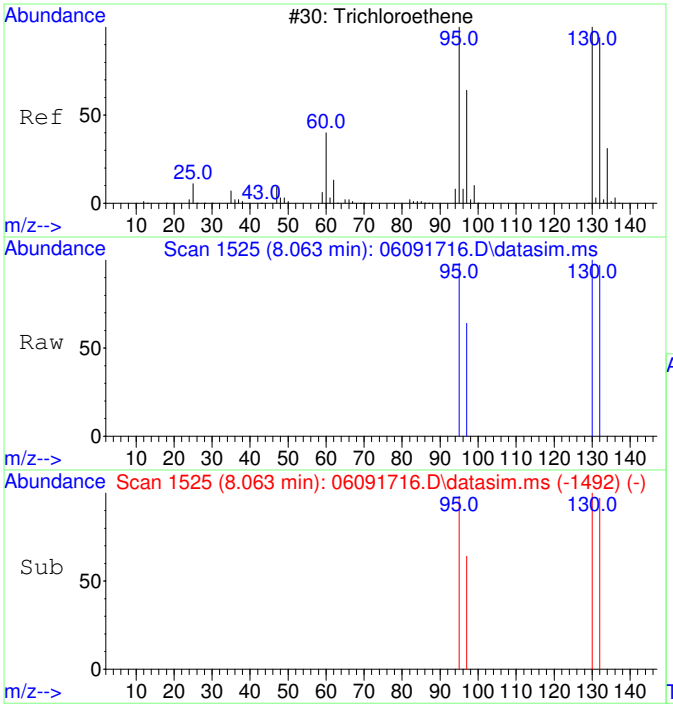


#10
1,2-Dichloroethane
Concen: 24.29 ug/L
RT: 7.051 min Scan# 1339
Delta R.T. -0.012 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 62 Resp: 1271

Ion	Ratio	Lower	Upper
62	100		
64	29.5	2.6	62.6

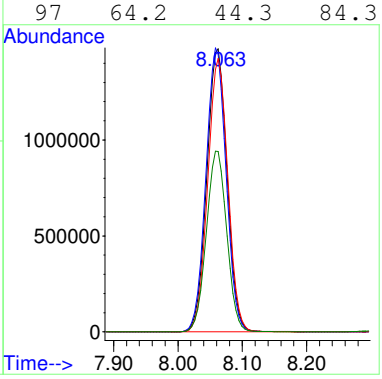


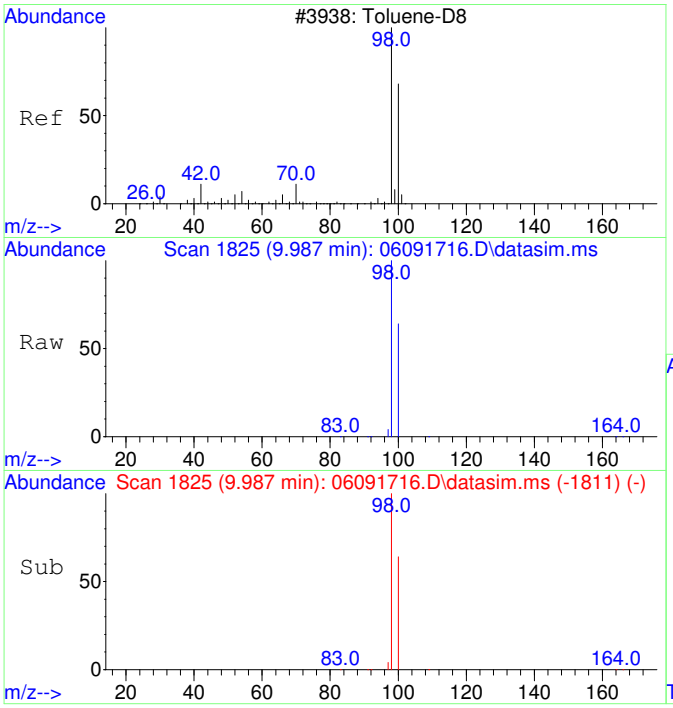


#11
Trichloroethene
Concen: 88866.57 ug/L
RT: 8.063 min Scan# 1525
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:130 Resp: 3227601

Ion	Ratio	Lower	Upper
130	100		
95	100.0	69.8	129.8
132	95.9	76.4	116.4
97	64.2	44.3	84.3

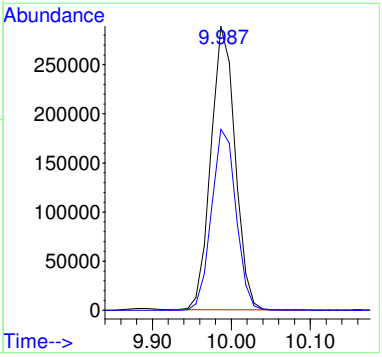


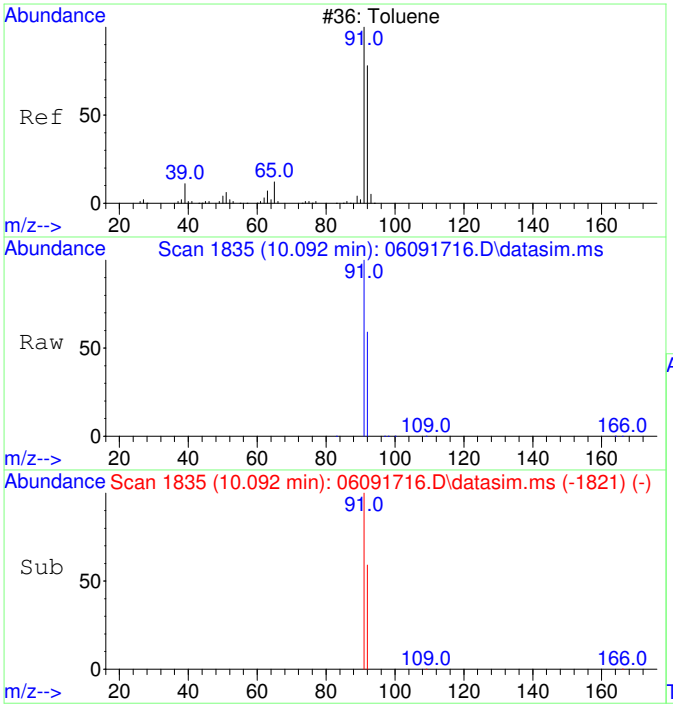


#12
Toluene-d8
Concen: 5251.66 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 98 Resp: 611993

Ion	Ratio	Lower	Upper
98	100		
100	64.4	34.2	94.2

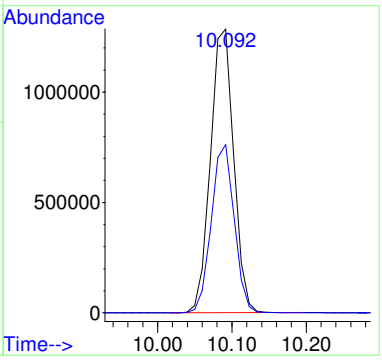


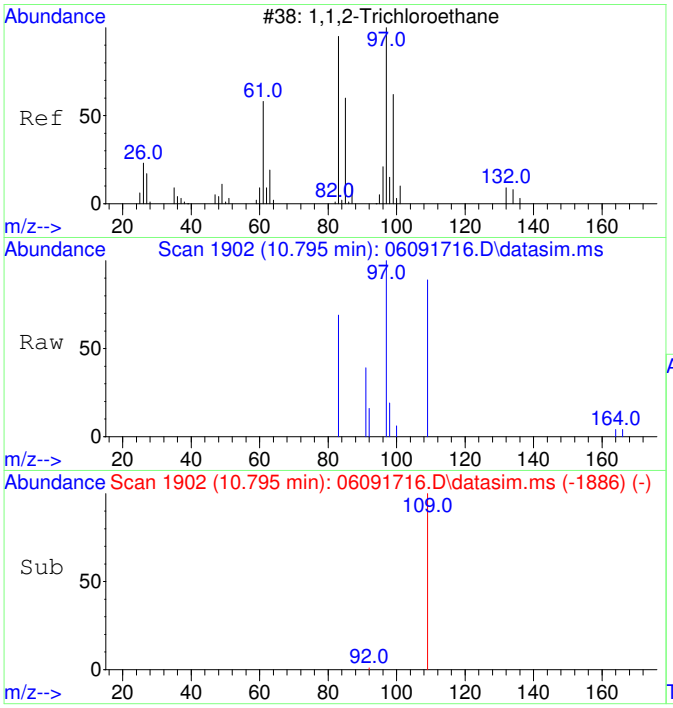


#13
Toluene
Concen: 18075.20 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 91 Resp: 2789377

Ion	Ratio	Lower	Upper
91	100		
92	58.0	28.4	88.4

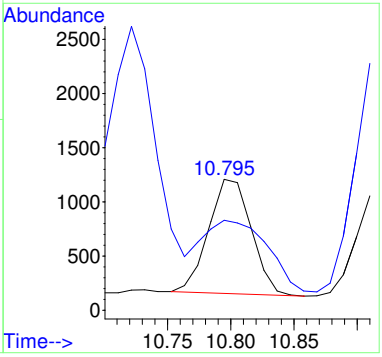


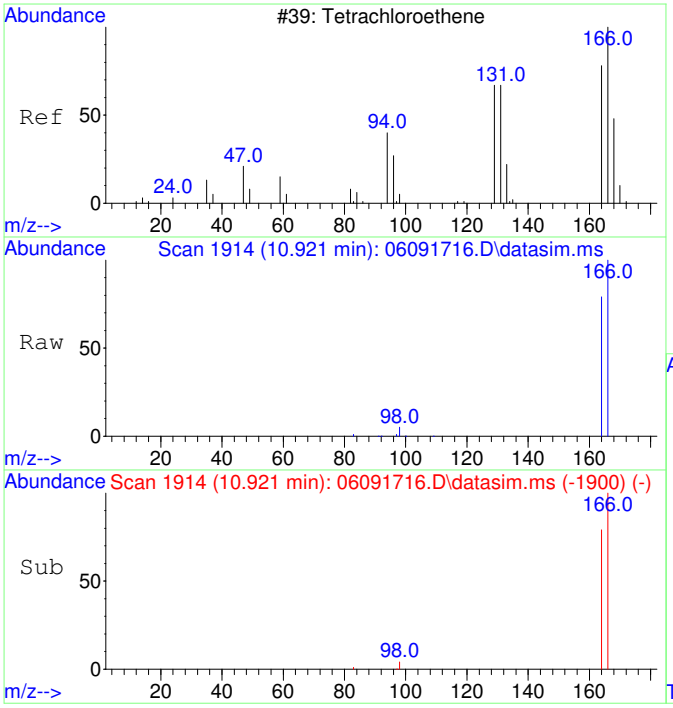


#14
1,1,2-Trichloroethane
Concen: 74.91 ug/L
RT: 10.795 min Scan# 1902
Delta R.T. 0.020 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 97 Resp: 2472

Ion	Ratio	Lower	Upper
97	100		
83	58.5	54.5	114.5

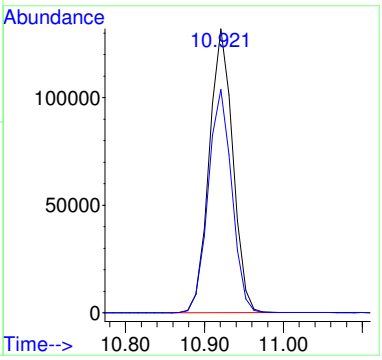


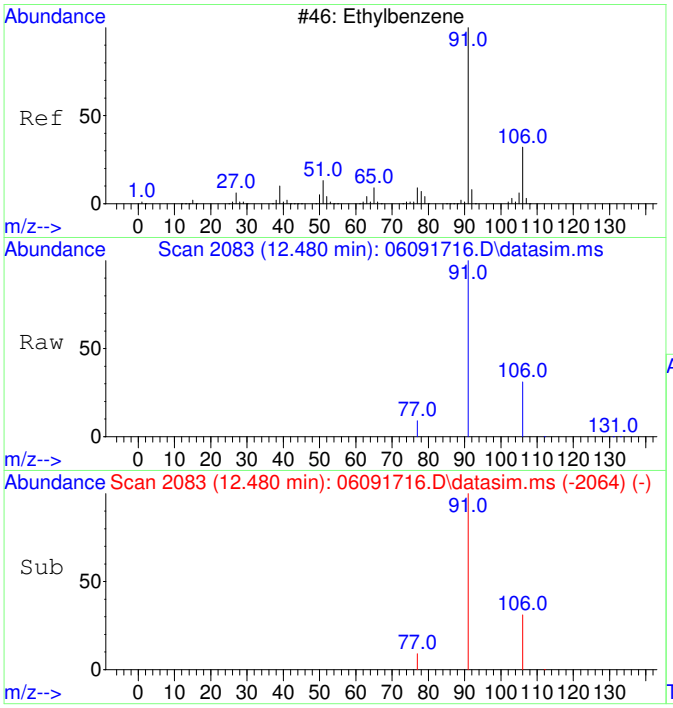


#15
Tetrachloroethene
Concen: 6907.38 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:166 Resp: 273213

Ion	Ratio	Lower	Upper
166	100		
164	78.2	48.1	108.1

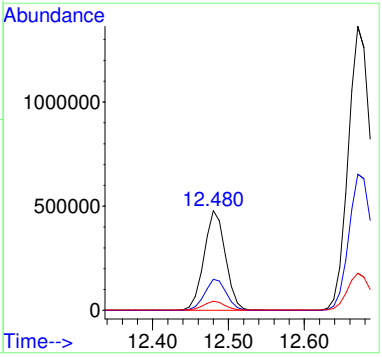


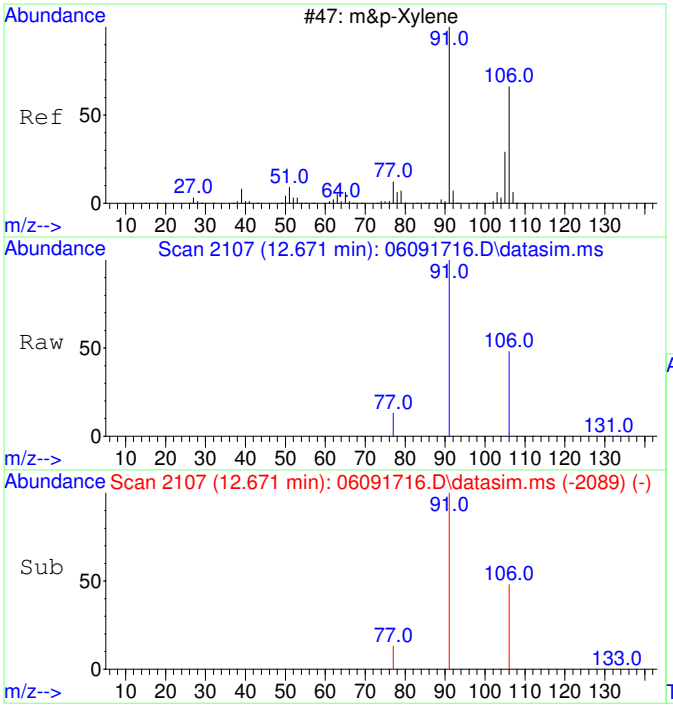


#18
Ethylbenzene
Concen: 5616.14 ug/L
RT: 12.480 min Scan# 2083
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 91 Resp: 932737

Ion	Ratio	Lower	Upper
91	100		
106	31.5	1.2	61.2
77	8.7	0.0	38.6

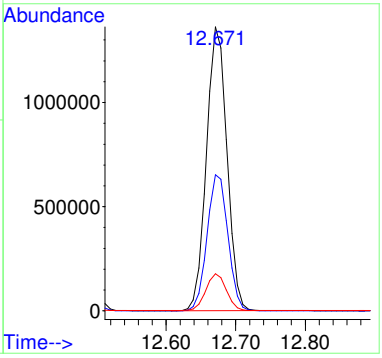


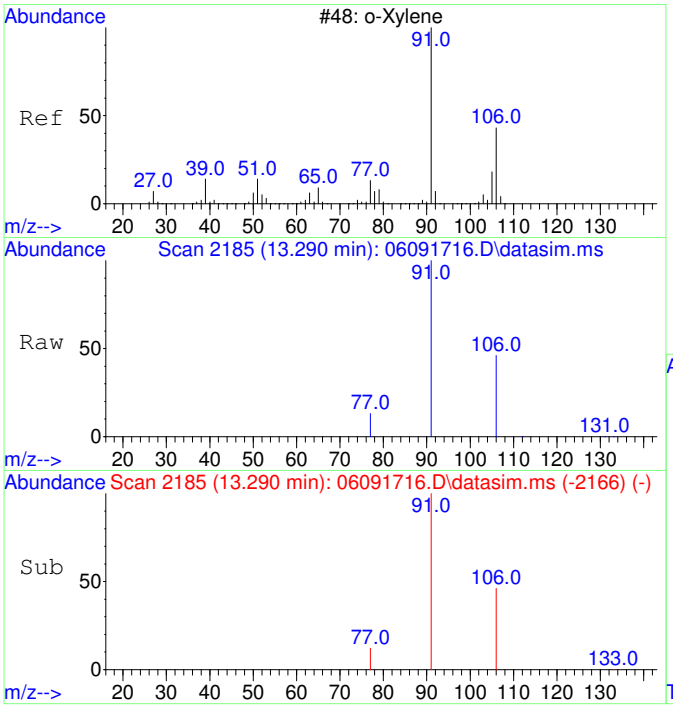


#19
m&p-Xylene
Concen: 21436.73 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 91 Resp: 2792931

Ion	Ratio	Lower	Upper
91	100		
106	48.5	18.4	78.4
77	12.9	0.0	43.1

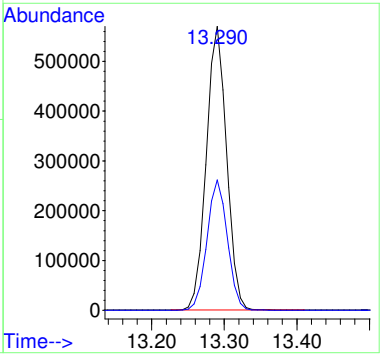


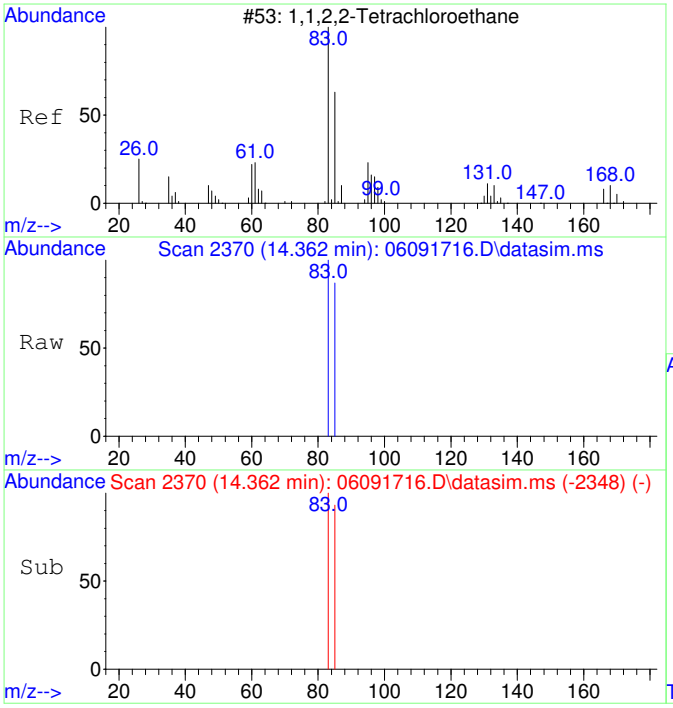


#20
o-Xylene
Concen: 8246.20 ug/L
RT: 13.290 min Scan# 2185
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 91 Resp: 1111118

Ion	Ratio	Lower	Upper
91	100		
106	45.8	16.0	76.0

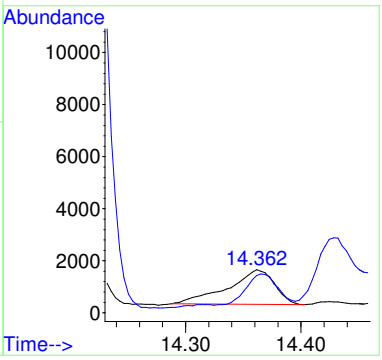


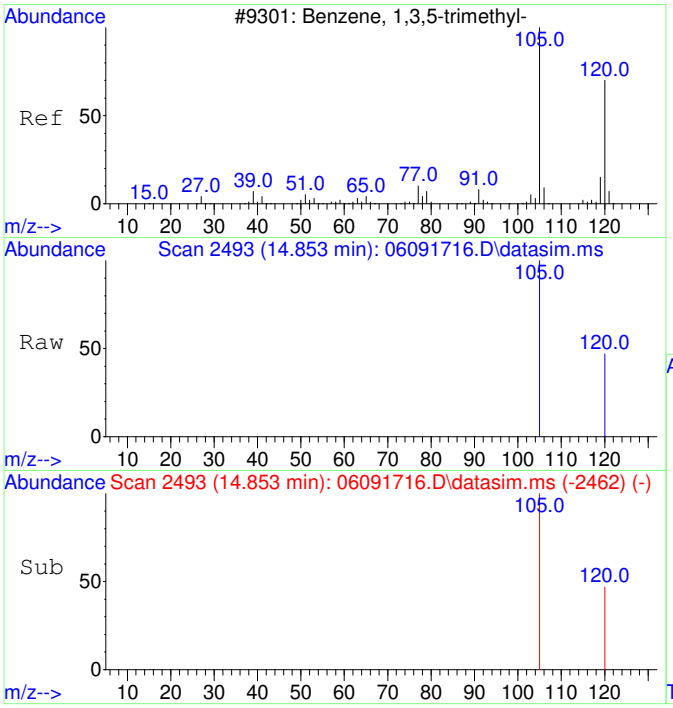


#21
1,1,2,2-Tetrachloroethane
Concen: 65.23 ug/L
RT: 14.362 min Scan# 2370
Delta R.T. -0.067 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 83 Resp: 3738

Ion	Ratio	Lower	Upper
83	100		
85	51.7	34.1	94.1

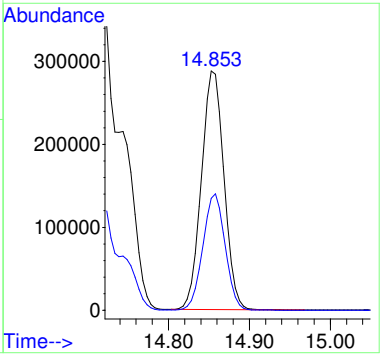


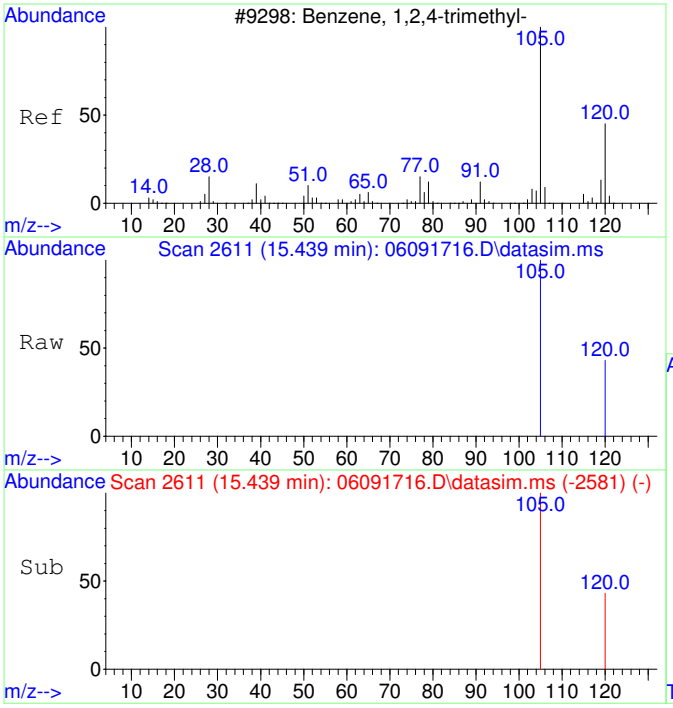


#22
1,3,5-Trimethylbenzene
Concen: 4190.90 ug/L
RT: 14.853 min Scan# 2493
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:105 Resp: 557566

Ion	Ratio	Lower	Upper
105	100		
120	47.9	18.0	78.0

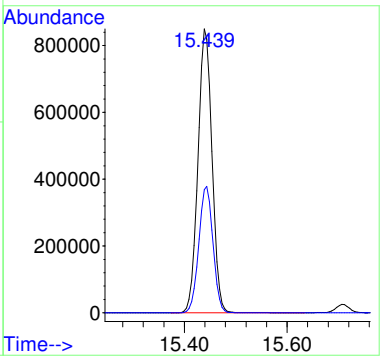


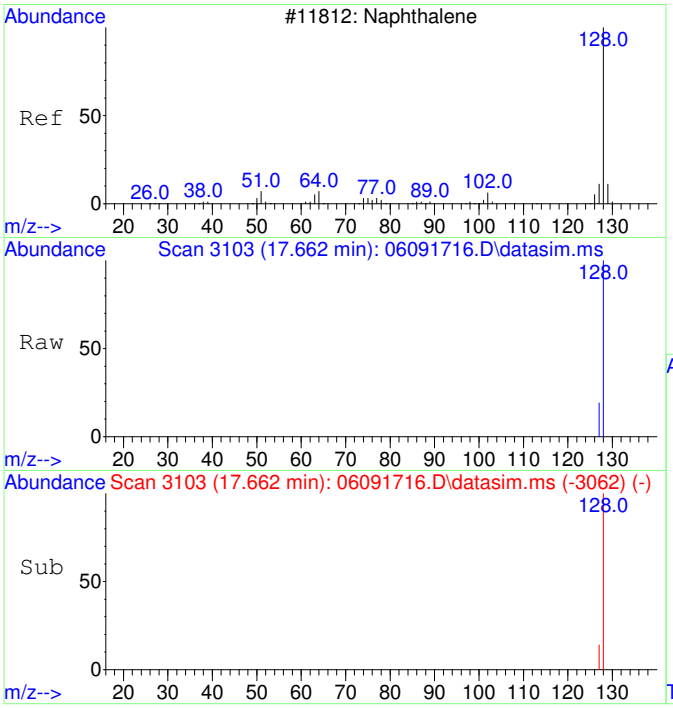


#23
1,2,4-Trimethylbenzene
Concen: 11830.27 ug/L
RT: 15.439 min Scan# 2611
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:105 Resp: 1613534

Ion	Ratio	Lower	Upper
105	100		
120	44.8	14.4	74.4

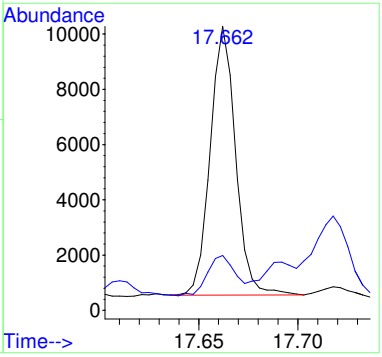


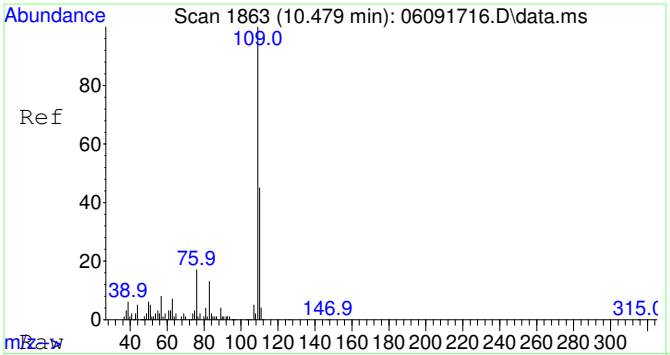


#24
Naphthalene
Concen: 43.04 ug/L
RT: 17.662 min Scan# 3103
Delta R.T. 0.001 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:128 Resp: 8693

Ion	Ratio	Lower	Upper
128	100		
127	11.5	0.0	42.7

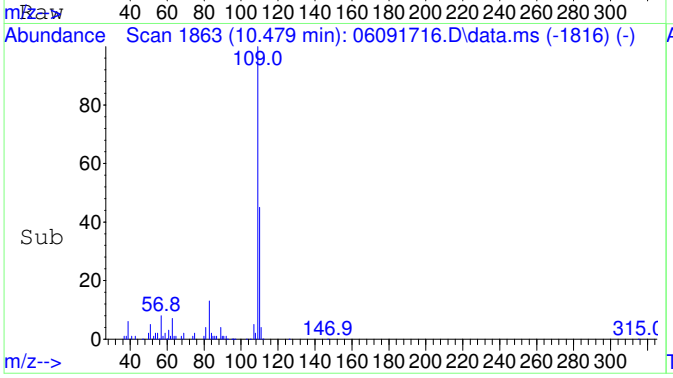


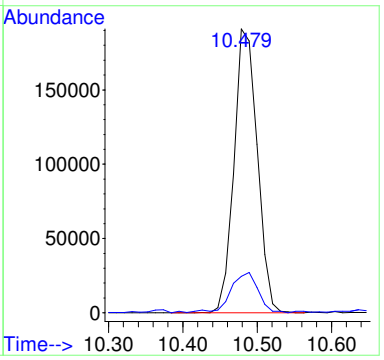


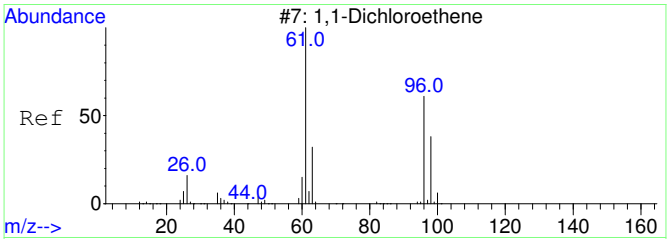
#25
2-Fluorotoluene SCAN
Concen: 4806.63 ug/L
RT: 10.479 min Scan# 1863
Delta R.T. -0.011 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:109 Resp: 414683

Ion	Ratio	Lower	Upper
109	100		
83	16.5	0.0	46.1



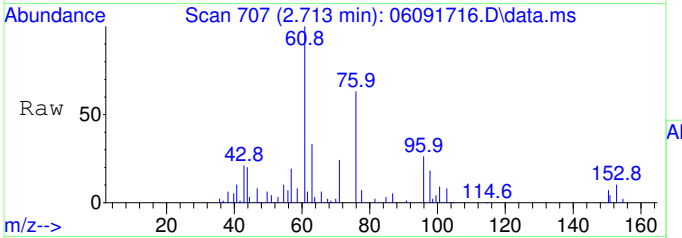


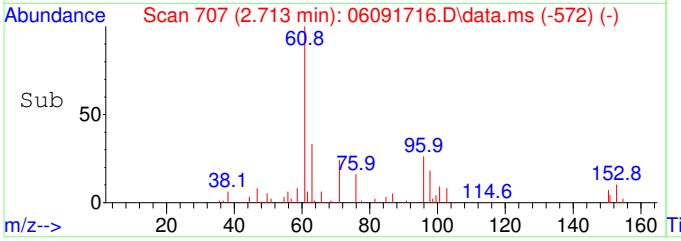


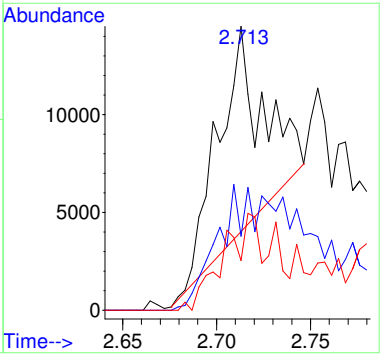
#26
1,1-Dichloroethene SCAN
Concen: 495.52 ug/L
RT: 2.713 min Scan# 707
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

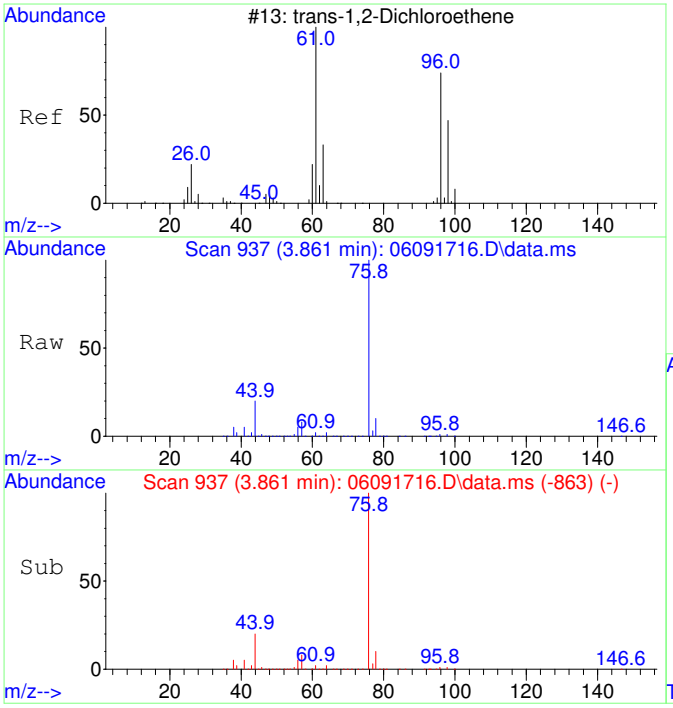
Tgt Ion: 61 Resp: 17987

Ion	Ratio	Lower	Upper
61	100		
96	86.4	16.7	76.7#
98	35.6	0.0	45.3





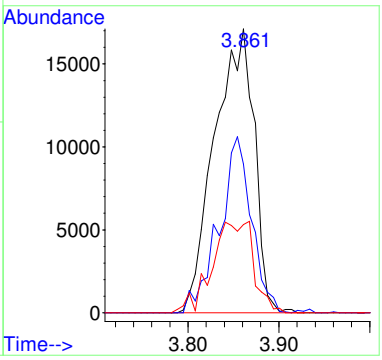


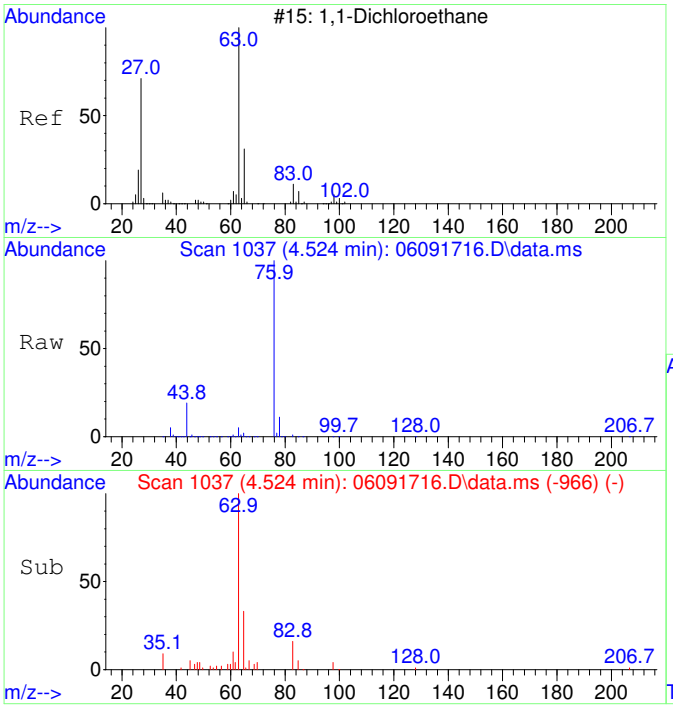


#27
trans-1,2-Dichloroethene SCAN
Concen: 1342.77 ug/L
RT: 3.861 min Scan# 937
Delta R.T. -0.007 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 61 Resp: 52017

Ion	Ratio	Lower	Upper
61	100		
96	50.6	26.1	86.1
98	33.7	4.4	64.4

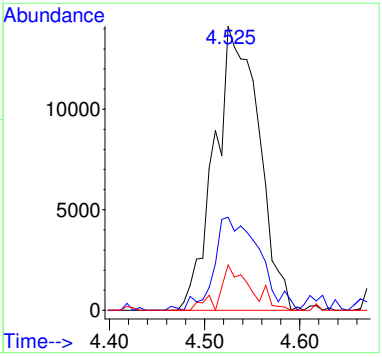


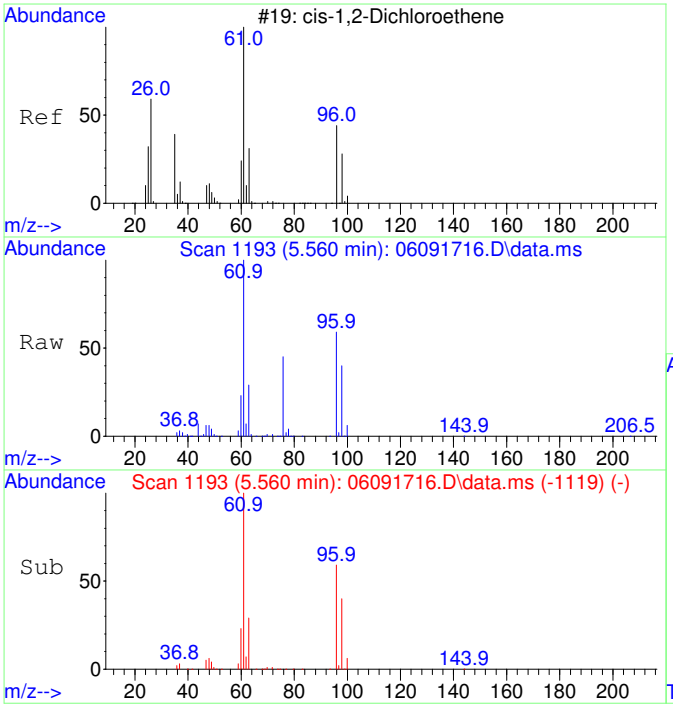


#28
1,1-Dichloroethane SCAN
Concen: 1039.01 ug/L
RT: 4.524 min Scan# 1037
Delta R.T. -0.027 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 63 Resp: 45890

Ion	Ratio	Lower	Upper
63	100		
65	33.3	1.1	61.1
83	11.2	0.0	31.5

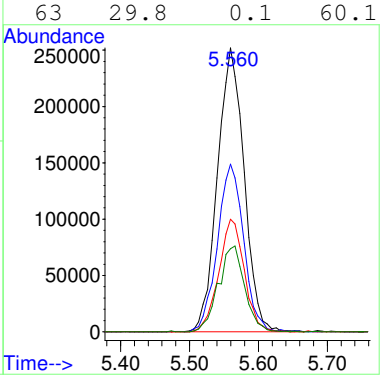


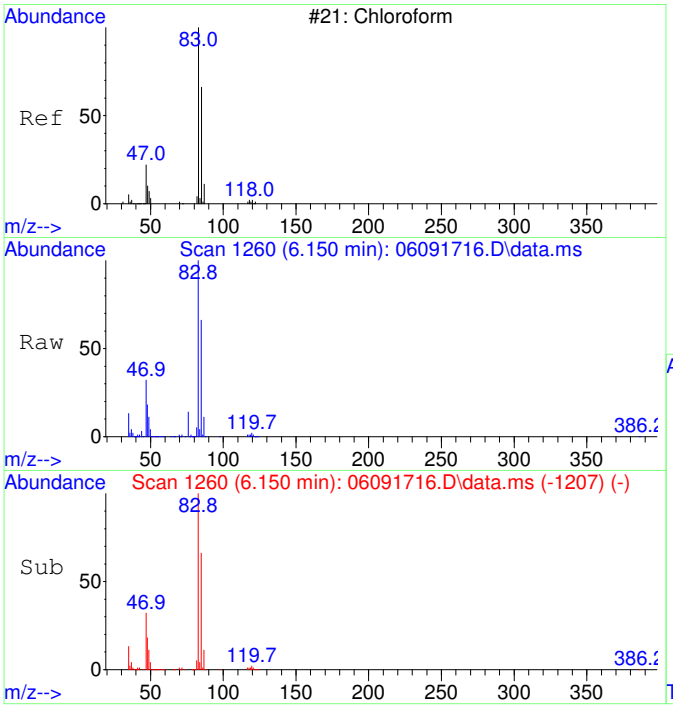


#29
cis-1,2-Dichloroethene SCAN
Concen: 15149.66 ug/L
RT: 5.560 min Scan# 1193
Delta R.T. -0.007 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 61 Resp: 677014

Ion	Ratio	Lower	Upper
61	100		
96	57.9	17.5	77.5
98	37.9	1.9	61.9
63	29.8	0.1	60.1

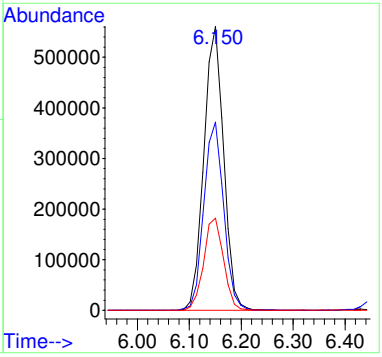


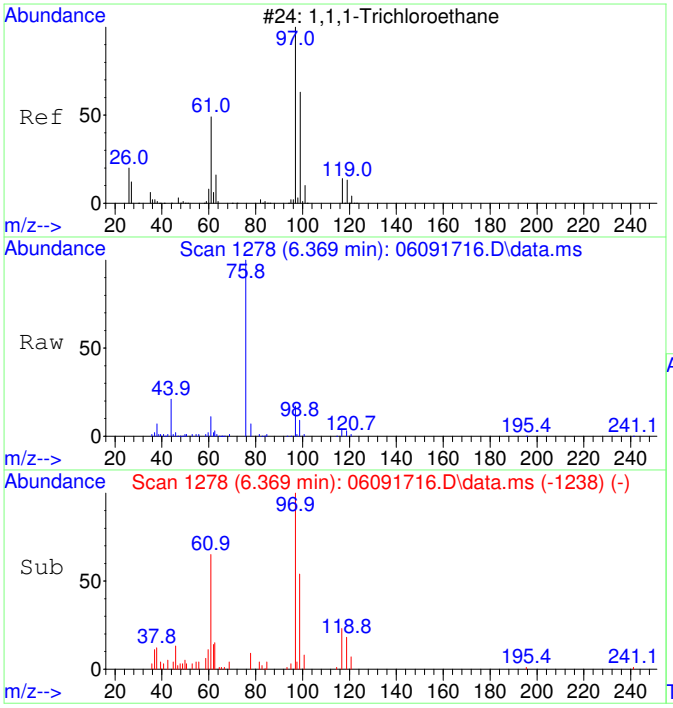


#30
Chloroform SCAN
Concen: 36872.39 ug/L
RT: 6.150 min Scan# 1260
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 83 Resp: 1485859

Ion	Ratio	Lower	Upper
83	100		
85	66.5	31.2	91.2
47	32.5	3.2	63.2

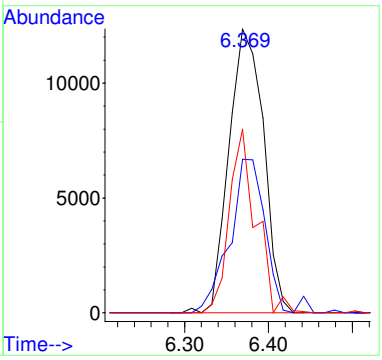


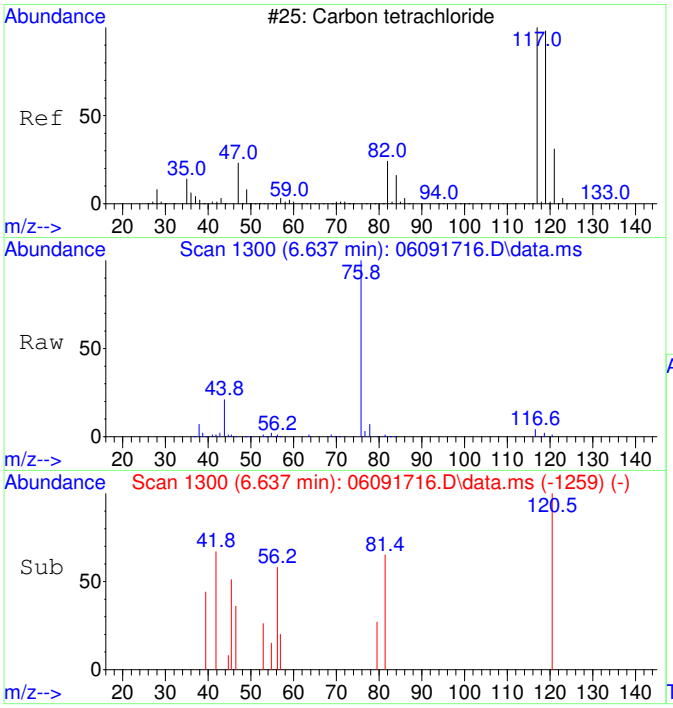


#31
1,1,1-Trichloroethane SCAN
Concen: 1067.71 ug/L
RT: 6.369 min Scan# 1278
Delta R.T. -0.012 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 97 Resp: 35408

Ion	Ratio	Lower	Upper
97	100		
99	54.5	38.7	98.7
61	49.9	27.8	87.8

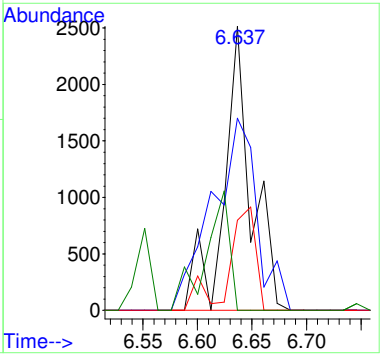


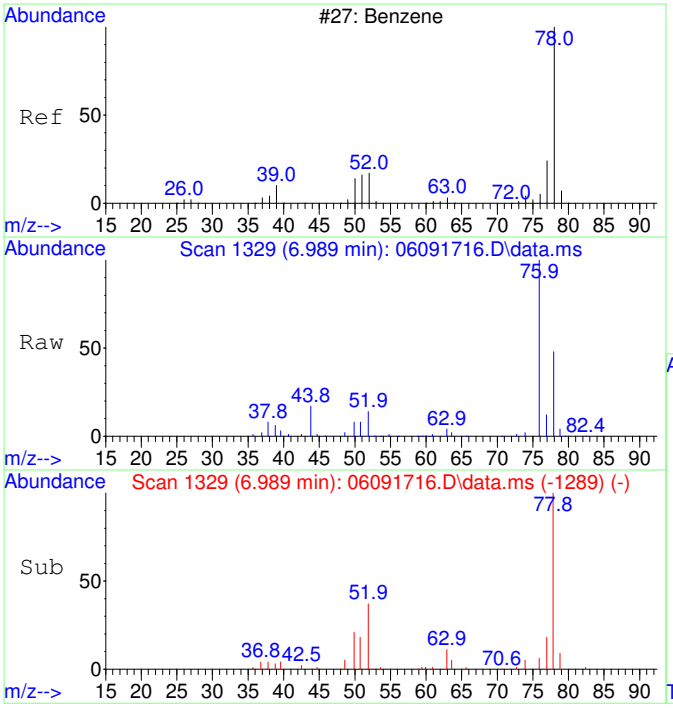


#32
Carbon tetrachloride SCAN
Concen: 143.47 ug/L
RT: 6.637 min Scan# 1300
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:117 Resp: 4380

Ion	Ratio	Lower	Upper
117	100		
119	110.9	66.8	126.8
121	35.8	0.4	60.4
82	0.0	2.6	62.6#

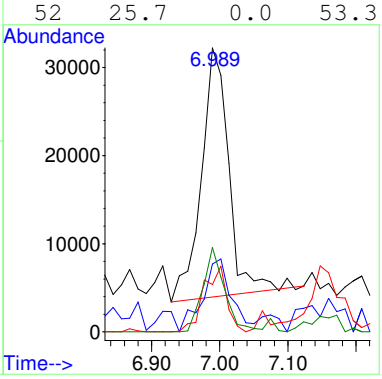


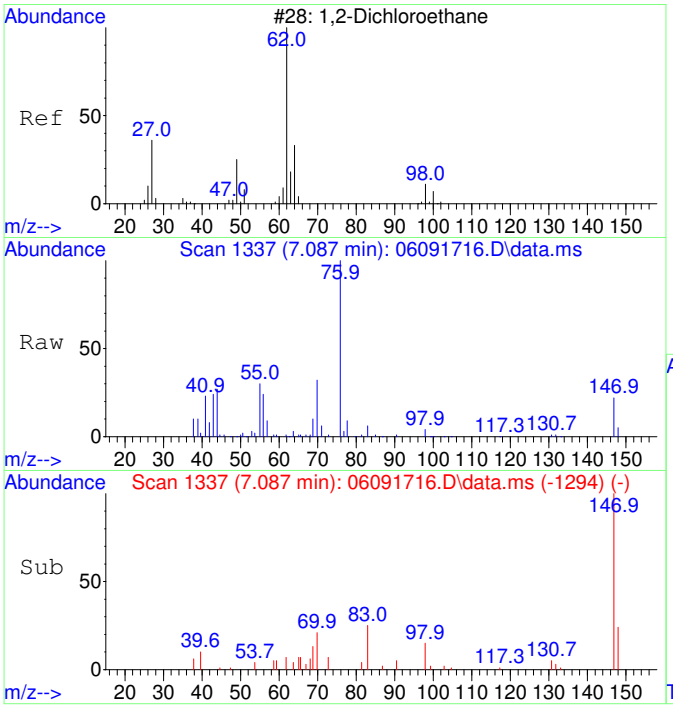


#33
Benzene SCAN
Concen: 866.29 ug/L
RT: 6.989 min Scan# 1329
Delta R.T. -0.012 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 78 Resp: 79120

Ion	Ratio	Lower	Upper
78	100		
77	27.0	0.0	55.2
51	22.1	0.0	52.4
52	25.7	0.0	53.3

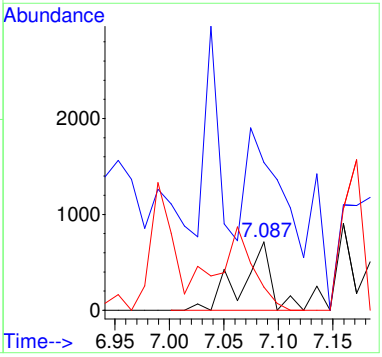


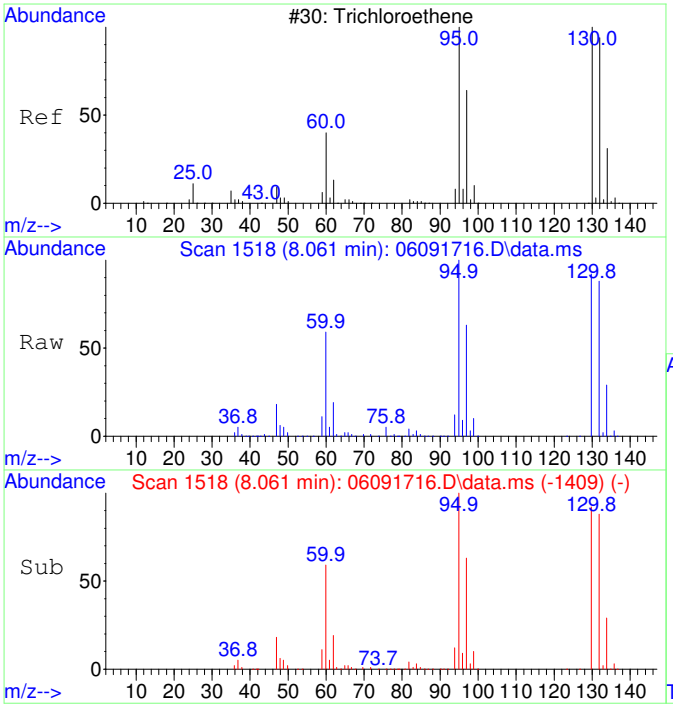


#34
1,2-Dichloroethane SCAN
Concen: 34.23 ug/L
RT: 7.087 min Scan# 1337
Delta R.T. 0.024 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 62 Resp: 1349

Ion	Ratio	Lower	Upper
62	100		
64	287.0	7.4	67.4#
49	0.0	0.0	54.8

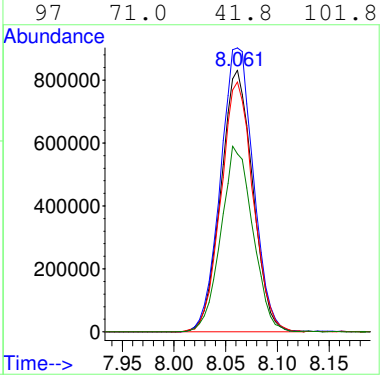


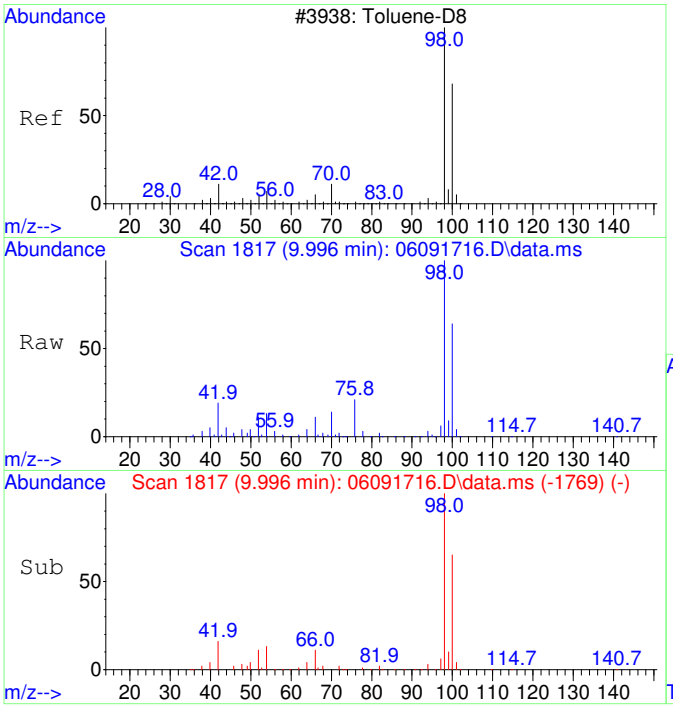


#35
Trichloroethene SCAN
Concen: 84465.36 ug/L
RT: 8.061 min Scan# 1518
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:130 Resp: 1786467

Ion	Ratio	Lower	Upper
130	100		
95	111.7	76.1	136.1
132	96.4	65.6	125.6
97	71.0	41.8	101.8

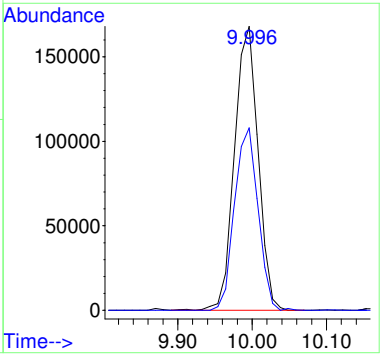


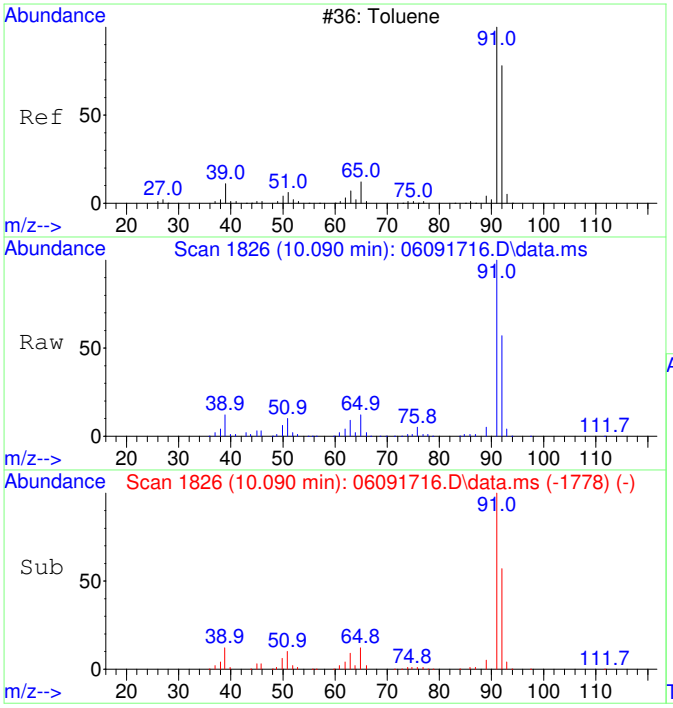


#36
Toluene-d8 SCAN
Concen: 5188.42 ug/L
RT: 9.996 min Scan# 1817
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 98 Resp: 369427

Ion	Ratio	Lower	Upper
98	100		
100	64.1	36.2	96.2

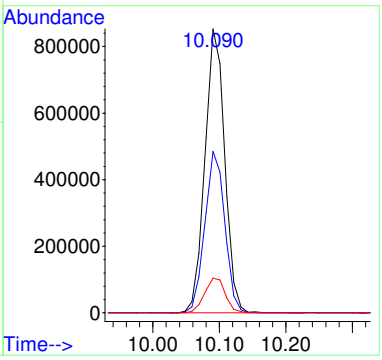


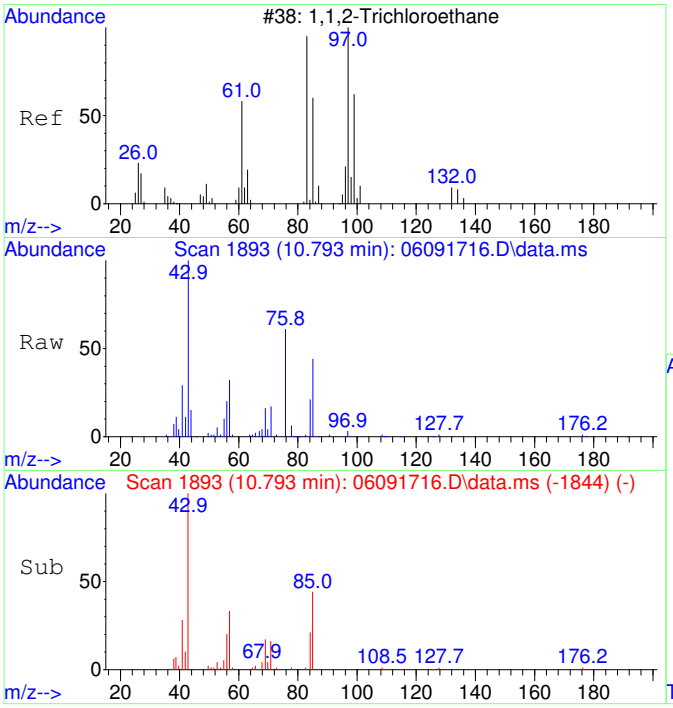


#37
Toluene SCAN
Concen: 18615.86 ug/L
RT: 10.090 min Scan# 1826
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 91 Resp: 1767886

Ion	Ratio	Lower	Upper
91	100		
92	57.3	29.2	89.2
65	12.9	0.0	44.3

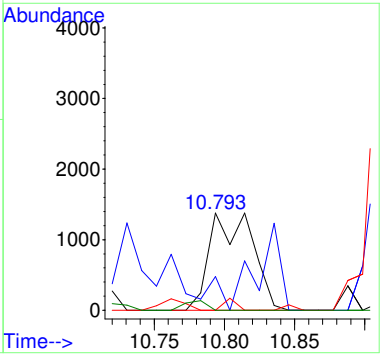


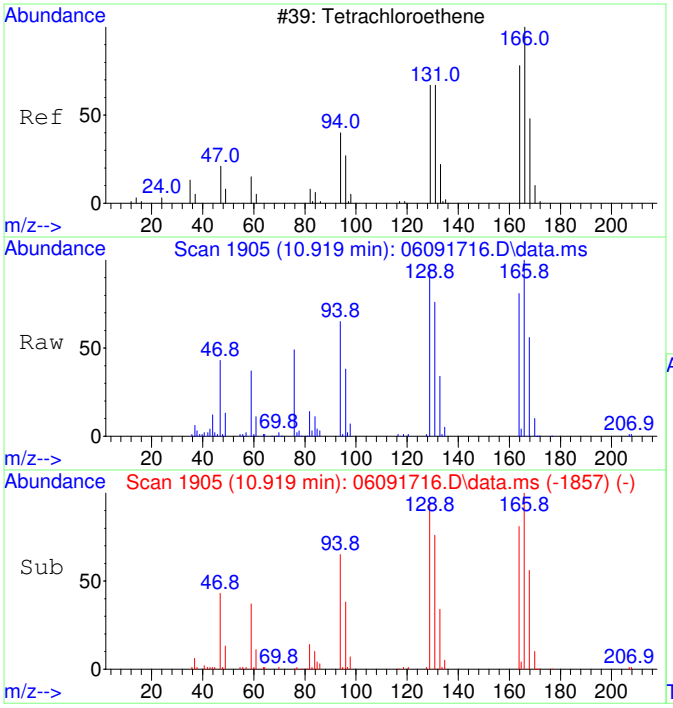


#38
1,1,2-Trichloroethane SCAN
Concen: 137.51 ug/L
RT: 10.793 min Scan# 1893
Delta R.T. 0.010 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 97 Resp: 2941

Ion	Ratio	Lower	Upper
97	100		
83	6.9	57.8	117.8#
61	3.7	48.6	108.6#
99	0.0	32.7	92.7#

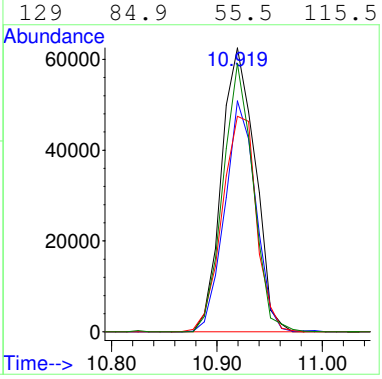


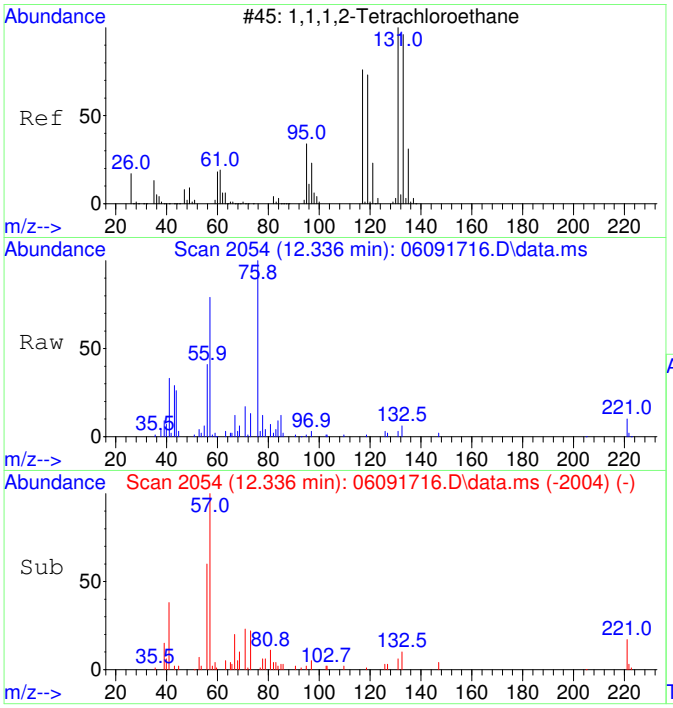


#39
Tetrachloroethene SCAN
Concen: 7123.93 ug/L
RT: 10.919 min Scan# 1905
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:166 Resp: 138696

Ion	Ratio	Lower	Upper
166	100		
164	75.1	45.7	105.7
131	77.6	44.8	104.8
129	84.9	55.5	115.5

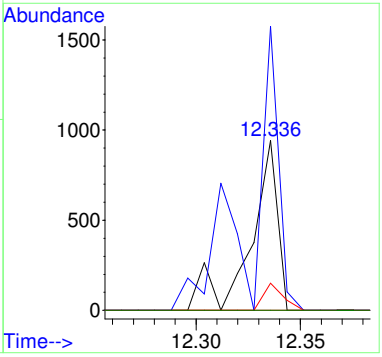


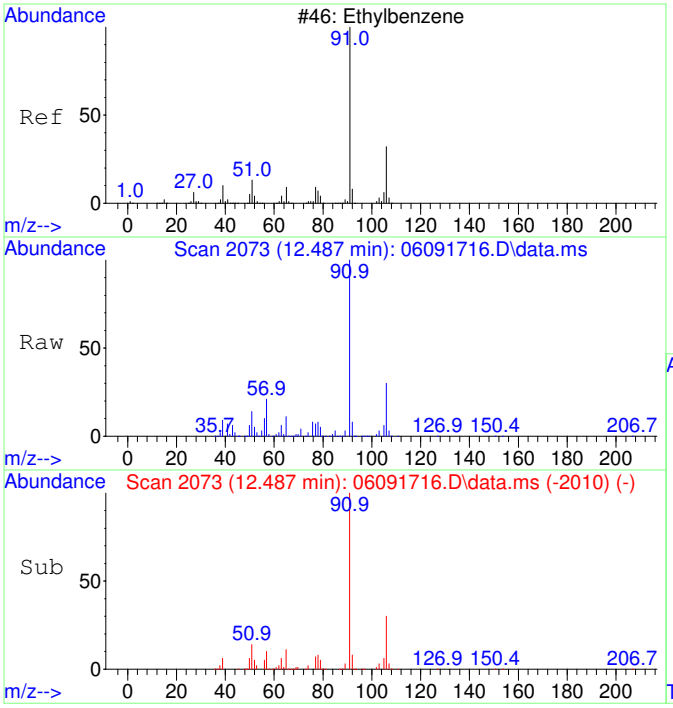


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 46.98 ug/L
RT: 12.336 min Scan# 2054
Delta R.T. -0.104 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:131 Resp: 853

Ion	Ratio	Lower	Upper
131	100		
133	172.0	63.5	123.5#
119	11.5	38.0	98.0#
117	0.0	43.8	103.8#

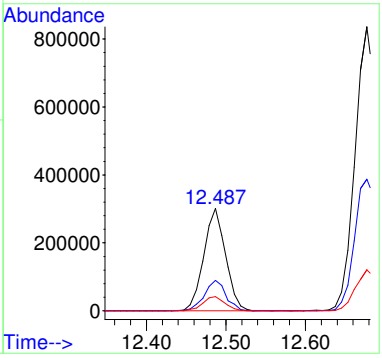


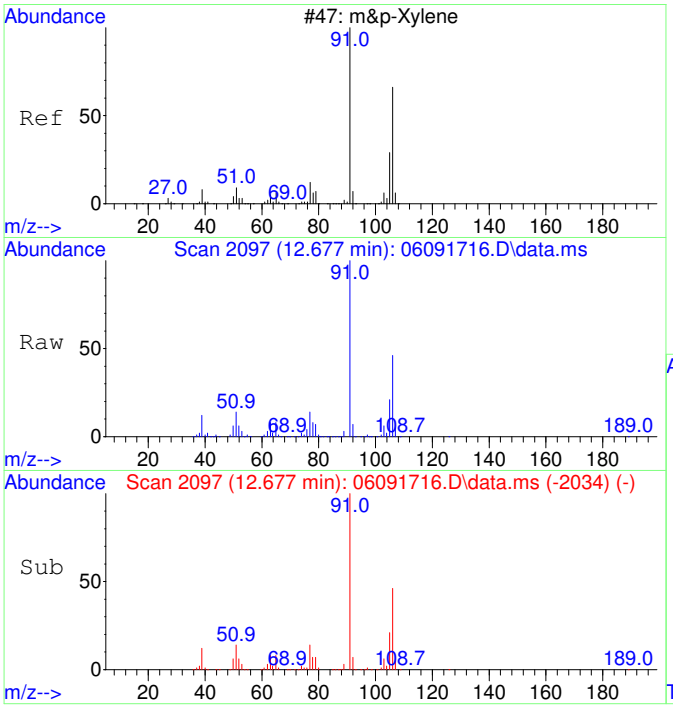


#42
Ethylbenzene SCAN
Concen: 5399.81 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 91 Resp: 574190

Ion	Ratio	Lower	Upper
91	100		
106	29.5	0.0	59.8
51	14.2	0.0	45.5

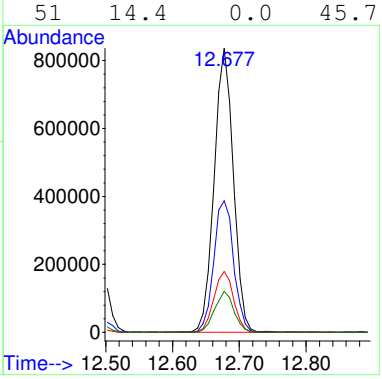


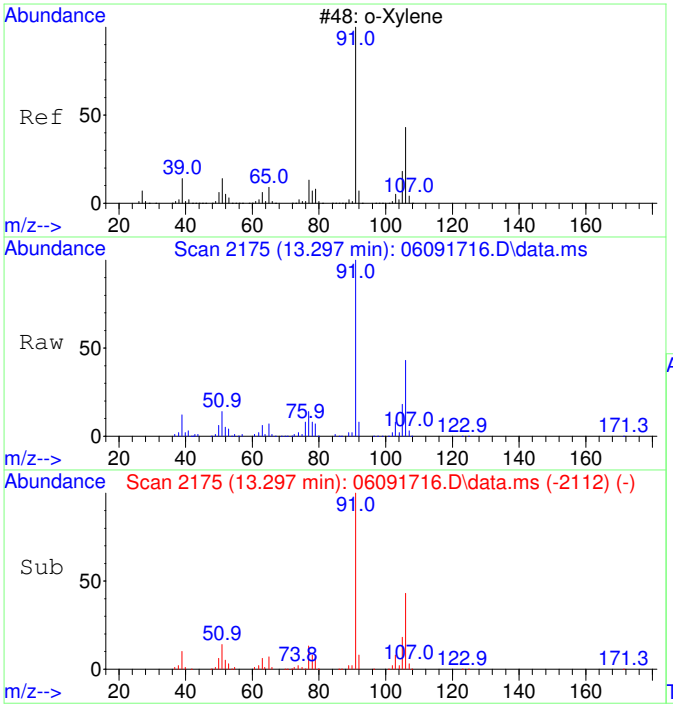


#43
m&p-Xylene SCAN
Concen: 10066.46 ug/L
RT: 12.677 min Scan# 2097
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 91 Resp: 1671276

Ion	Ratio	Lower	Upper
91	100		
106	47.9	18.5	78.5
105	22.0	0.0	51.3
51	14.4	0.0	45.7

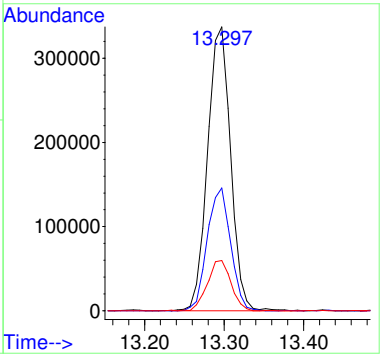


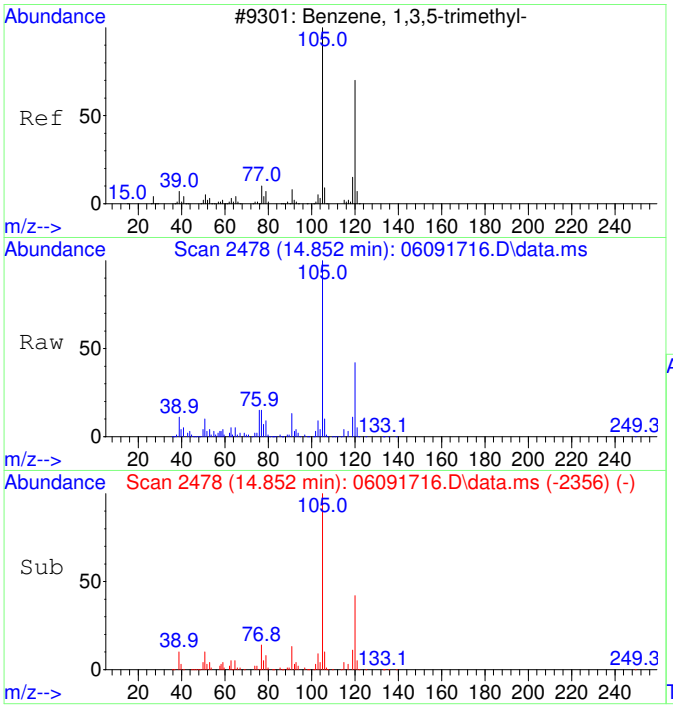


#44
o-Xylene SCAN
Concen: 7951.88 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion: 91 Resp: 679832

Ion	Ratio	Lower	Upper
91	100		
106	43.9	15.5	75.5
105	18.2	0.0	54.1

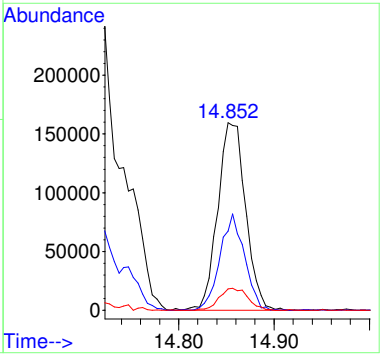


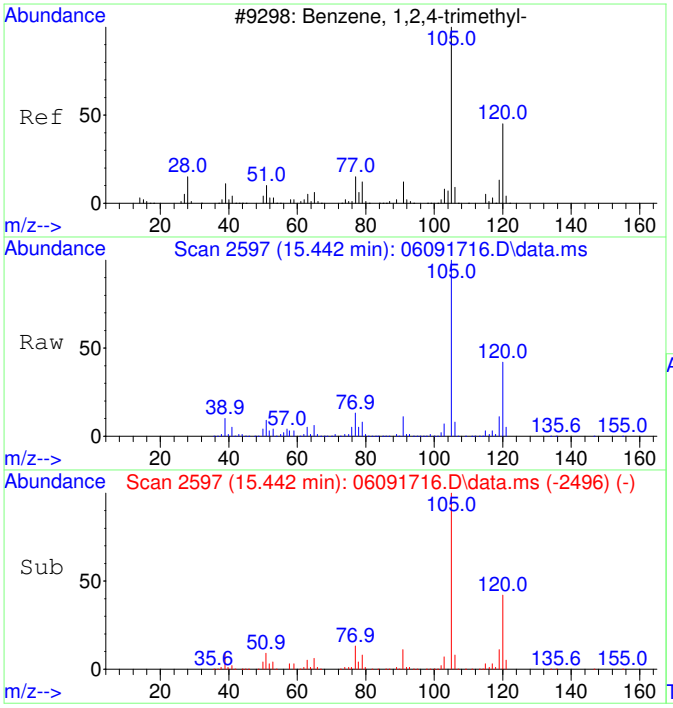


#46
1,3,5-Trimethylbenzene SCAN
Concen: 4001.80 ug/L
RT: 14.852 min Scan# 2478
Delta R.T. -0.005 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:105 Resp: 324528

Ion	Ratio	Lower	Upper
105	100		
120	45.2	17.3	77.3
119	12.1	0.0	42.7

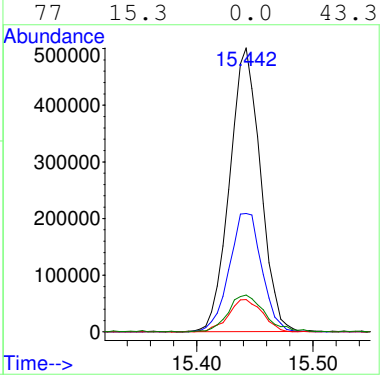


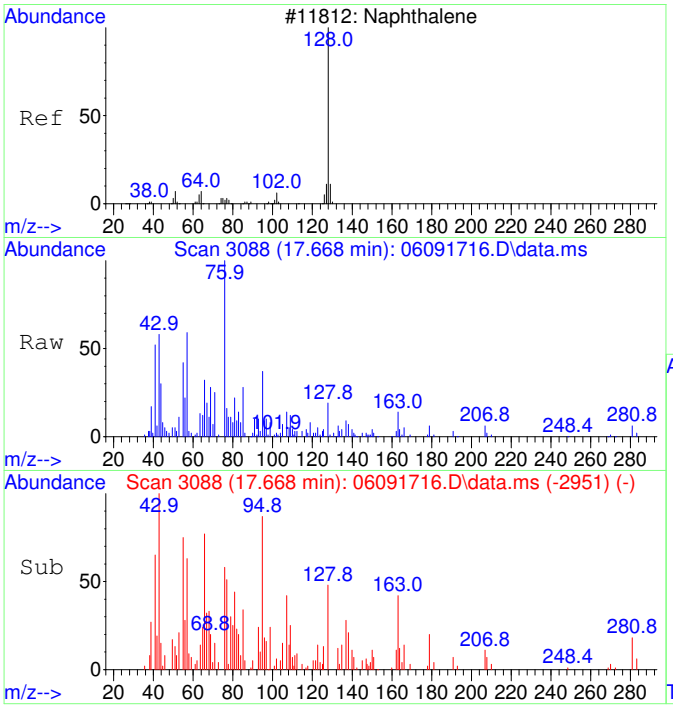


#47
1,2,4-Trimethylbenzene SCAN
Concen: 10956.32 ug/L
RT: 15.442 min Scan# 2597
Delta R.T. -0.000 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:105 Resp: 925909

Ion	Ratio	Lower	Upper
105	100		
120	44.1	12.9	72.9
119	12.5	0.0	40.5
77	15.3	0.0	43.3

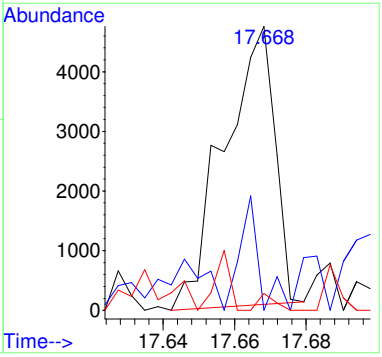




#48
Naphthalene SCAN
Concen: 39.62 ug/L
RT: 17.668 min Scan# 3088
Delta R.T. 0.008 min
Lab File: 06091716.D
Acq: 9 Jun 2017 16:29

Tgt Ion:128 Resp: 4618

Ion	Ratio	Lower	Upper
128	100		
127	15.9	0.0	43.9
129	2.0	0.0	41.0



SEQUENCE

S17F044

ANALYST / REVIEWER - DATA REVIEW CHECKLIST

BATCH #:	B17F042	SEQUENCE #:	S17F044
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?	☐	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.	Tue Jun 06 15:10:51 2017			
	Initial Calibration ID (LIMS number):	1706007			
	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 #:	B17F042	SEQUENCE #:	S17F044
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?	☐	Y	Y	
SAMPLE DATA	Were samples prepared & analyzed within holding time?	☐	Y	Y	
	If samples need to be re-run, were RE(s) made in LIMS?	✔			
	Do any samples need to be re-digested or re-extracted?	✔			
	Were all data qualifiers appropriately applied?	☐	Y	Y	
	Are problems, anomalies, discrepancies documented in LIMS? Specify if applicable.	✔			
MANUAL INT	Were manual integrations performed and documented? Specify if applicable.	☐	Y	Y	

APPROVALS	ANALYST INITIALS & DATE:	RH 6/13/17
	REVIEWED BY:	Ziyad Rajabi (affiliate) Digitally signed by Ziyad Rajabi (affiliate) Date: 2017.06.14 12:00:47 -07'00' SIGN HERE

COMMENTS

Limited project specific list

FORM #: Q015
REV #: 1

Injection Log

Operator: RH
Directory: C:\msdchem\1\Ravioli Data\2017\061217\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	06121701.D	1	S17F044-IBL1		12 Jun 2017 11:50
2	06121702.D	1	S17F044-TUN1	BFB 1652069	12 Jun 2017 12:11
3	06121703.D	1	S17F044-CCV1	1717064 5 mg/L	12 Jun 2017 12:20
4	06121704.D	1	S17F044-CRL1	1717062 0.05 mg/L	12 Jun 2017 12:43
5	06121705.D	1	S17F044-CRL2	1 0.15 mg/L Benzene only	12 Jun 2017 13:07
11	06121706.D	10	1706012-08RE1	100 UL - 1 ML	12 Jun 2017 13:31
6	06121707.D	10	1706012-03RE1	100 UL - 1 ML	12 Jun 2017 14:08
7	06121708.D	10	1706012-04RE1	100 UL - 1 ML	12 Jun 2017 14:32
8	06121709.D	10	1706012-05RE1	100 UL - 1 ML	12 Jun 2017 14:55
9	06121710.D	100	1706012-06RE1	10 UL - 1 ML	12 Jun 2017 15:19
10	06121711.D	10	1706012-07RE1	100 UL - 1 ML	12 Jun 2017 15:43

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\Ravioli Data\2017\061217\06121702.D
Tune Time : 12 Jun 2017 12:11

Daily Calibration File : C:\msdchem\1\Ravioli Data\2017\061217\06121703.D

687221

File	Sample	Surrogate Recovery %	Internal Standard Responses
06121703.D			
	S17F044-CC	101	687221
06121704.D			
	S17F044-CR	1*	661990
06121705.D			
	S17F044-CR	3*	624483
06121706.D			
	1706012-08	102	916935
06121707.D			
	1706012-03	102	763871
06121708.D			
	1706012-04	102	729992
06121709.D			
	1706012-05	101	750676
06121710.D			
	1706012-06	102	784712
06121711.D			
	1706012-07	102	624186

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

Created: Tue Jun 13 16:19:57 2017 AG5975C

Analysis Sequence

S17F044

Project: R17S65
Analysis: VOCs, Passive Samplers

Instrument: AG5975CV **Calibration ID:** 1706007 Printed: 06/13/2017 4:32 pm

Lab Number	Sample Name	Order	Analyzed Date	STD ID	ISTD ID	Sequenced By	File ID	Comments
S17F044-IBL1	Instrument Blank	1						
S17F044-TUN1	BFB	2	6/12/17 12:11	1652069		RH	06121702.D	
S17F044-CCV1	1639124	3	6/12/17 12:20	1717059		RH	06121703.D	
S17F044-CRL1	1639127	4	6/12/17 12:43	1717062		RH	06121704.D	
S17F044-CRL2	1610057	5	6/12/17 13:07	1717061		RH	06121705.D	
1706012-08RE1 A	F5-038-5ft-5d	6	6/12/17 13:31			RH	06121706.D	
1706012-03RE1 A	F5-058-5ft-7d	7	6/12/17 14:08			RH	06121707.D	
1706012-04RE1 A	F5-060-5ft-7d	8	6/12/17 14:32			RH	06121708.D	
1706012-05RE1 A	F5-062-5ft-7d	9	6/12/17 14:55			RH	06121709.D	
1706012-06RE1 A	F6-006-5ft-5d	10	6/12/17 15:19			RH	06121710.D	
1706012-07RE1 A	F6-002-5ft-5d	11	6/12/17 15:43			RH	06121711.D	

Sequence Comments

Reagents

Reagent #	Description

Table of Contents

SEQUENCE DATA

S17F044

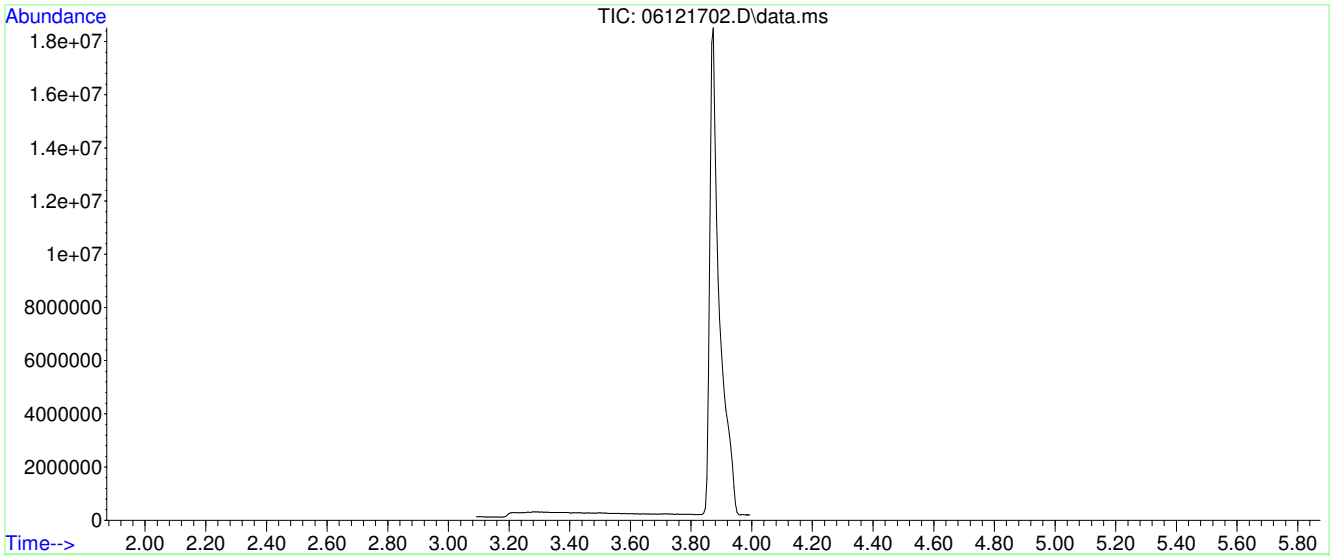
S17F044-TUN1

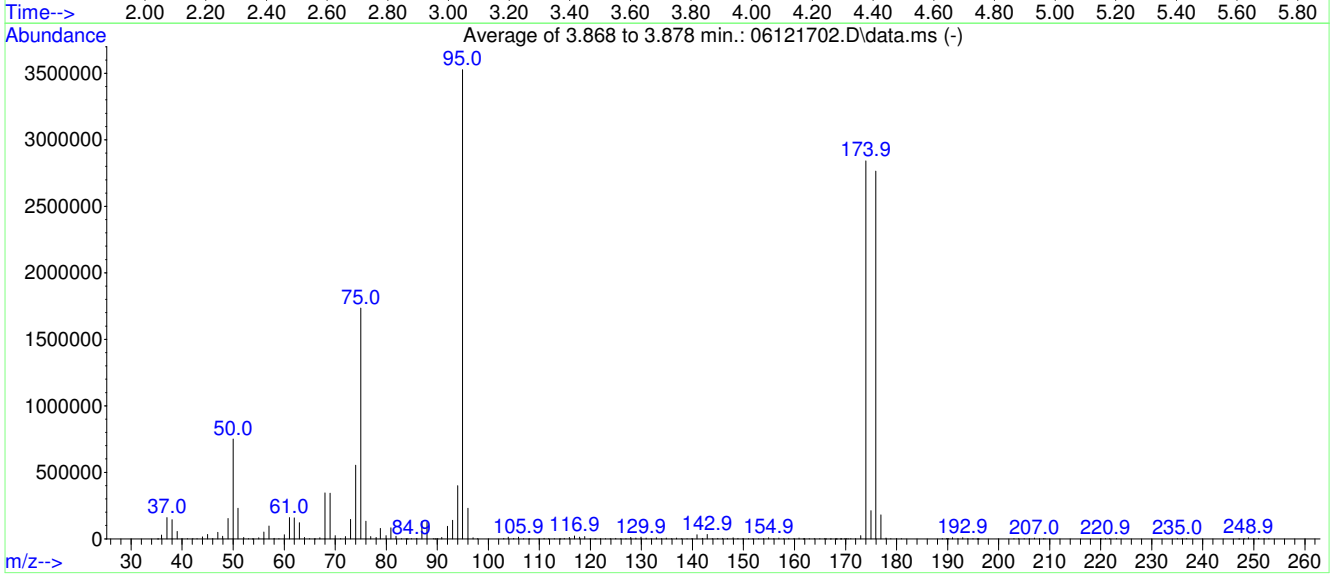
Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121702.D
Acq On : 12 Jun 2017 12:11
Operator : RH
Sample : S17F044-TUN1
Misc : BFB 1652069
ALS Vial : 2 Sample Multiplier: 1
InstName : AG5975C

Integration File: Benzene.P

Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Title : Volatile Organic Analysis - Passive samplers
Last Update : Tue Jun 06 15:10:51 2017





AutoFind: Scans 149, 150, 151; Background Corrected with Scan 143

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.3	749627	PASS
75	95	30	60	49.2	1734194	PASS
95	95	100	100	100.0	3526321	PASS
96	95	5	9	6.5	230379	PASS
173	174	0.00	2	0.9	24589	PASS
174	95	50	120	80.6	2841771	PASS
175	174	5	9	7.4	210795	PASS
176	174	95	101	97.3	2764979	PASS
177	176	5	9	6.6	181163	PASS

Average of 3.868 to 3.878 min.: 06121702.D\data.ms
S17F044-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.20	68	46.00	2023	57.00	95465	68.00	344789
35.95	27834	47.00	49116	58.00	3704	69.00	343723
37.00	159613	47.95	20181	58.95	1240	70.00	24056
38.00	144603	49.00	152936	60.00	30882	71.05	943
39.00	55156	50.00	749627	61.00	159935	72.00	16886
40.00	1490	50.95	229397	62.00	158485	73.00	146608
41.05	185	52.05	9705	63.00	120085	74.00	554005
42.10	157	53.00	180	64.00	10360	75.00	1.73419e+006
42.95	1079	53.80	50	65.00	716	76.00	131584
44.00	15784	55.00	8589	65.90	53	76.95	17782
45.00	32495	56.00	51995	67.00	7513	78.00	11280

Average of 3.868 to 3.878 min.: 06121702.D\data.ms
S17F044-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.85	78098	89.20	166	103.00	2558	114.90	3526
79.95	23107	89.50	61	103.90	13625	115.90	11111
80.90	82091	89.90	75	104.95	4568	116.90	20645
81.90	18230	90.90	9728	105.90	13302	117.90	12444
82.95	1772	92.00	94043	106.90	2104	118.90	17982
83.90	304	93.00	139688	107.90	57	119.95	729
84.10	90	94.00	399893	109.90	1909	120.90	196
84.90	155	94.95	3.52632e+006	110.95	2983	121.05	175
86.00	3363	96.00	230379	111.80	1920	121.95	893
87.00	130065	97.00	6968	112.95	2332	122.95	1005
88.00	123344	97.90	170	114.00	63	123.90	1902

Average of 3.868 to 3.878 min.: 06121702.D\data.ms
S17F044-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
124.95	3010	135.90	970	146.85	2918	157.90	565
125.95	1726	136.90	5681	147.95	7357	158.90	4235
126.95	1033	137.85	138	148.90	2450	159.90	362
127.90	10792	138.95	961	149.90	3308	160.90	4647
128.90	5624	139.90	1872	150.95	277	161.70	103
129.90	12112	140.90	31429	151.85	1971	161.95	205
130.95	4806	141.95	3547	152.95	2245	162.90	1168
131.95	711	142.90	33219	153.90	2058	163.90	277
132.95	6921	143.90	1958	154.95	7748	164.95	1061
133.95	930	144.95	2847	155.90	836	165.90	191
134.90	6164	145.90	4146	156.95	5835	166.10	111

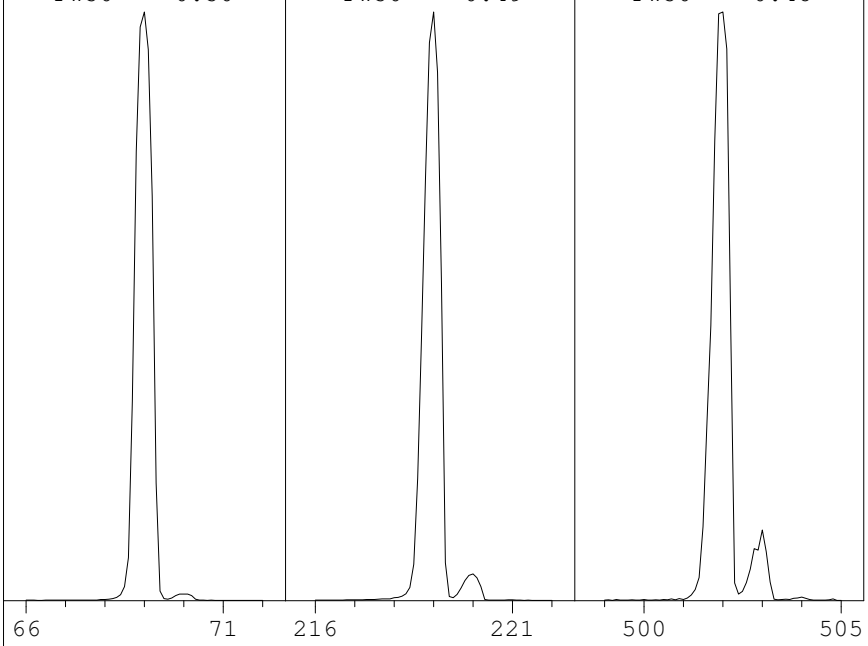
Average of 3.868 to 3.878 min.: 06121702.D\data.ms
S17F044-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
167.00	82	173.95	2.84177e+006	190.20	140	206.00	502
168.00	112	175.00	210795	190.95	7261	207.00	5471
168.20	82	175.90	2.76498e+006	192.05	1519	208.00	1541
169.00	119	176.95	181163	192.95	8416	208.80	156
169.15	215	177.90	5177	194.00	1740	209.05	632
169.85	339	178.90	1857	194.95	1198	219.90	69
170.20	215	180.00	359	195.80	65	220.95	471
170.50	197	180.95	365	196.00	51	221.75	138
171.00	501	188.95	711	203.00	947	223.10	135
172.00	2224	189.80	220	203.95	148	235.00	867
173.00	24589	190.00	193	205.00	2088	235.95	151

Average of 3.868 to 3.878 min.: 06121702.D\data.ms
S17F044-TUN1
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
236.85	352						
247.05	127						
248.10	135						
248.95	7370						
250.00	1722						
250.95	2452						
252.00	621						
252.95	451						

Mass	69.00	Mass	219.00	Mass	502.00
Ab	668057	Ab	401473	Ab	14874
Pw50	0.50	Pw50	0.49	Pw50	0.48

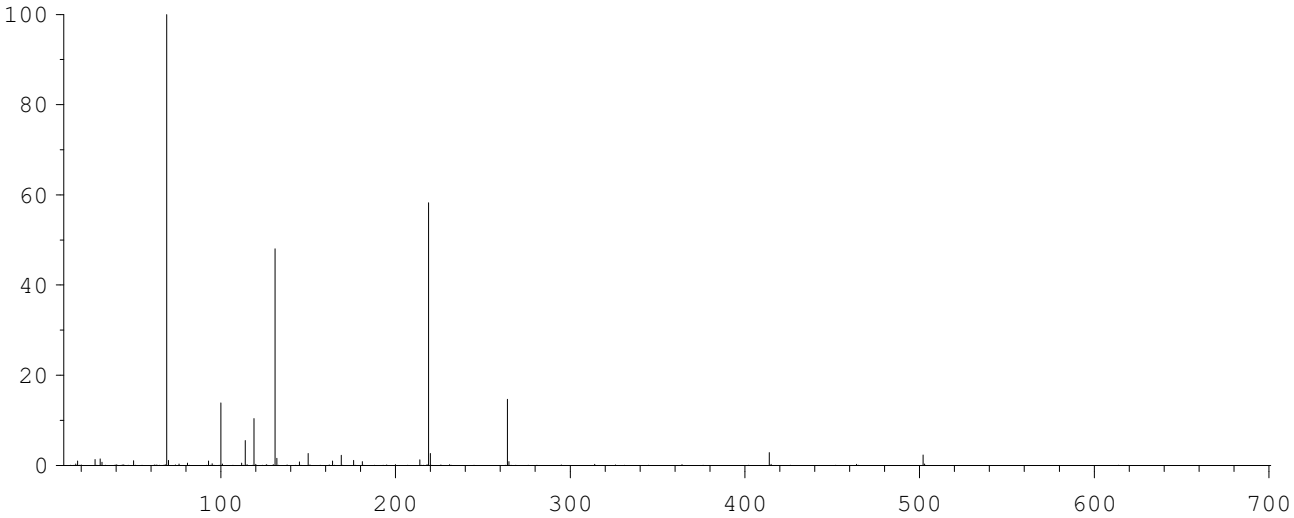


Ion Pol	Pos	MassGain	-1191
		MassOffs	-40
Emission	34.6	AmuGain	989
EIEnrgy	69.9	AmuOffs	128.31
Filament	1	Wid219	0.001
		DC Pol	Pos
Repeller	28.28		
IonFcus	79.7	HEDEnab	On
EntLens	0.0	EMVolts	2118
EntOffs	Var		
		Samples	8
PFTBA	Open	Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	250	Turbo Speed	100
MS Quad	200	HiVac	0.00e00

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10
112 peaks Base: 69.00 Abundance: 608384



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	608384	100.00	70.00	6592	1.08
219.00	354176	58.22	220.00	15993	4.52
502.00	14031	2.31	503.00	1799	12.82

Air/Water Check: H20~1.00% N2~1.32% O2~0.70% CO2~0.20% N2/H2O~131.12%

Column(1) Flow: 0.97 Column(2): -1.79769e+308 ml/min. Interface Temp: 300

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 98964
Repeller Maximum 30 volts using ion 219; Gain Factor 0.99

MassGain Values(Samples): -1181(3) -1176(2) -1162(1) -1127(0) -1066(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	128.3	128.3	128.3	128.3	128.3	128.3	128.3
Entrance Lens Offset:	15.3	13.3	13.1	13.8	16.6	18.3	18.3
Target Abund(%):	1.0	100.0	45.0	55.0	2.5	2.0	
Actual Tune Abund(%):	1.0	100.0	48.0	58.2	2.8	2.3	

S17F044-CCV1

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121703.D
Acq On : 12 Jun 2017 12:20
InstName : AG5975C
Operator : RH
Sample : S17F044-CCV1
Misc : 1717064 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 12 12:55:02 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
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	91	0.00
2	T	1,1-Dichloroethene	0.394	0.428	-8.6	104	0.00
3	T	trans-1,2-Dichloroethene	0.427	0.441	-3.3	99	-0.01
4	T	1,1-Dichloroethane	0.461	0.499	-8.2	102	-0.01
5	T	cis-1,2-Dichloroethene	0.440	0.465	-5.7	99	-0.01
6	T	Chloroform	0.426	0.439	-3.1	99	-0.01
7	T	1,1,1-Trichloroethane	0.391	0.410	-4.9	96	-0.01
8	T	Carbon tetrachloride	0.338	0.352	-4.1	95	0.00
9	T	Benzene	0.992	0.986	0.6	96	0.00
10	T	1,2-Dichloroethane	0.368	0.385	-4.6	97	-0.01
11	T	Trichloroethene	0.255	0.258	-1.2	93	0.00
12	S	Toluene-d8	0.819	0.825	-0.7	92	0.00
13	T	Toluene	1.084	1.049	3.2	92	0.00
14	T	1,1,2-Trichloroethane	0.232	0.233	-0.4	92	0.00
15	T	Tetrachloroethene	0.278	0.275	1.1	90	0.00
16	T	Chlorobenzene	0.689	0.694	-0.7	91	0.00
17	T	1,1,1,2-Tetrachloroethane	0.226	0.226	0.0	90	0.00
18	T	Ethylbenzene	1.167	1.185	-1.5	91	0.00
19	T	m&p-Xylene	0.915	0.938	-2.5	91	0.00
20	T	o-Xylene	0.947	0.969	-2.3	92	0.00
21	T	1,1,2,2-Tetrachloroethane	0.403	0.411	-2.0	91	0.00
22	T	1,3,5-Trimethylbenzene	0.935	1.002	-7.2	93	0.00
23	T	1,2,4-Trimethylbenzene	0.958	1.024	-6.9	93	0.00
24	T	Naphthalene	1.419	1.657	-16.8	98	0.00
25		2-Fluorotoluene SCAN	0.606	0.578	4.6	87	0.00
26		1,1-Dichloroethene SCAN	0.255	0.276	-8.2	99	0.02
27		trans-1,2-Dichloroethene SC	0.272	0.297	-9.2	100	-0.01
28		1,1-Dichloroethane SCAN	0.310	0.340	-9.7	100	-0.01
29		cis-1,2-Dichloroethene SCAN	0.314	0.314	0.0	91	0.00
30		Chloroform SCAN	0.283	0.288	-1.8	93	0.00
31		1,1,1-Trichloroethane SCAN	0.233	0.253	-8.6	99	-0.01
32		Carbon tetrachloride SCAN	0.215	0.211	1.9	90	-0.01
33		Benzene SCAN	0.642	0.605	5.8	86	-0.01
34		1,2-Dichloroethane SCAN	0.277	0.299	-7.9	98	0.00
35		Trichloroethene SCAN	0.149	0.146	2.0	90	0.00
36		Toluene-d8 SCAN	0.500	0.497	0.6	91	0.00
37		Toluene SCAN	0.667	0.646	3.1	88	0.00
38		1,1,2-Trichloroethane SCAN	0.150	0.150	0.0	91	0.00
39		Tetrachloroethene SCAN	0.137	0.135	1.5	90	0.00
40		Chlorobenzene SCAN	0.410	0.407	0.7	91	0.00
41		1,1,1,2-Tetrachloroethane S	0.128	0.123	3.9	88	0.00
42		Ethylbenzene SCAN	0.747	0.730	2.3	89	0.00
43		m&p-Xylene SCAN	1.167	1.145	1.9	90	0.00
44		o-Xylene SCAN	0.601	0.588	2.2	89	0.00
45		1,1,2,2-Tetrachloroethane S	0.272	0.262	3.7	88	0.00
46		1,3,5-Trimethylbenzene SCAN	0.570	0.583	-2.3	93	0.00
47		1,2,4-Trimethylbenzene SCAN	0.594	0.591	0.5	91	0.00
48		Naphthalene SCAN	0.819	0.838	-2.3	93	0.00

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121703.D
Acq On : 12 Jun 2017 12:20
InstName : AG5975C
Operator : RH
Sample : S17F044-CCV1
Misc : 1717064 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 12 12:55:02 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

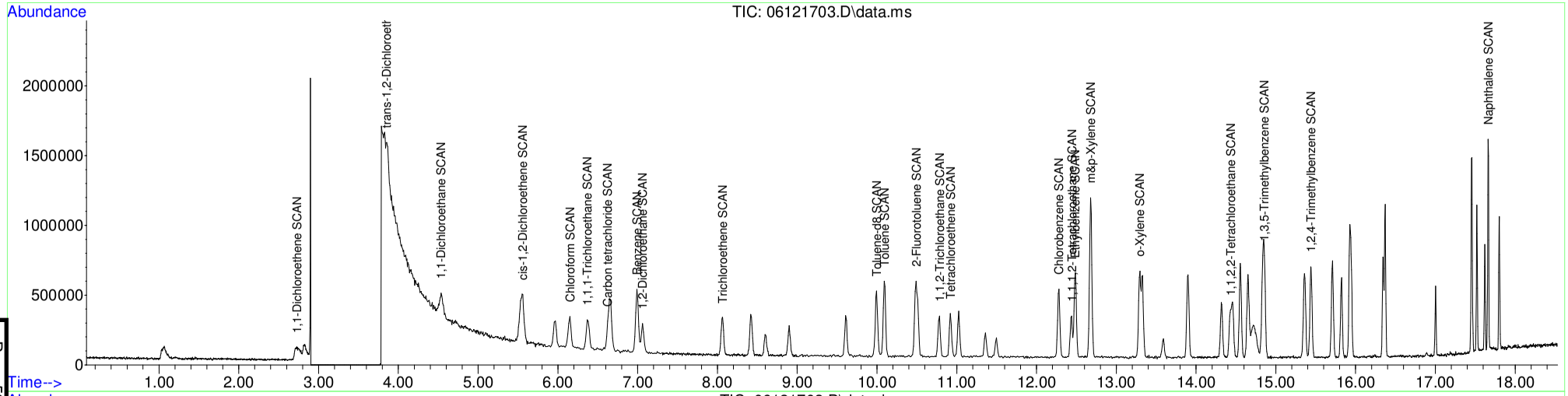
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.480	109	687221	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	567006	5038.02 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.76%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.714	61	293926	5423.12 ug/L	100
3] trans-1,2-Dichloroethene	3.856	61	302917	5156.66 ug/L	100
4] 1,1-Dichloroethane	4.539	63	343145	5419.31 ug/L	100
5] cis-1,2-Dichloroethene	5.554	61	319585	5280.21 ug/L	100
6] Chloroform	6.139	83	301572	5149.15 ug/L	100
7] 1,1,1-Trichloroethane	6.370	97	281859	5240.00 ug/L	100
8] Carbon tetrachloride	6.638	117	241670	5208.25 ug/L	100
9] Benzene	6.991	78	677937	4970.55 ug/L	100
10] 1,2-Dichloroethane	7.051	62	264650	5237.40 ug/L	100
11] Trichloroethene	8.063	130	177636	5064.21 ug/L	100
13] Toluene	10.092	91	721114	4838.41 ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	159913	5017.59 ug/L	100
15] Tetrachloroethene	10.921	166	188754	4941.18 ug/L	100
16] Chlorobenzene	12.273	112	477132	5039.98 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.432	131	155350	4999.48 ug/L	100
18] Ethylbenzene	12.480	91	814031	5075.07 ug/L	100
19] m&p-Xylene	12.679	91	1288810	10242.58 ug/L	100
20] o-Xylene	13.290	91	665901	5117.12 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	282524	5104.76 ug/L	100
22] 1,3,5-Trimethylbenzene	14.853	105	688419	5357.79 ug/L	100
23] 1,2,4-Trimethylbenzene	15.439	105	703969	5344.32 ug/L	100
24] Naphthalene	17.662	128	1138857	5838.06 ug/L	100
25) 2-Fluorotoluene SCAN	10.489	109	397226	4767.43 ug/L	99
26) 1,1-Dichloroethene SCAN	2.735	61	189559	5407.15 ug/L	94
27) trans-1,2-Dichloroethe...	3.854	61	204069	5454.49 ug/L	96
28) 1,1-Dichloroethane SCAN	4.538	63	233907	5483.65 ug/L	98
29) cis-1,2-Dichloroethene...	5.560	61	216104	5007.15 ug/L	96
30) Chloroform SCAN	6.150	83	197919	5085.50 ug/L	95
31) 1,1,1-Trichloroethane ...	6.369	97	174054	5434.47 ug/L	94
32) Carbon tetrachloride SCAN	6.624	117	144791	4910.82 ug/L	98
33) Benzene SCAN	6.989	78	415909	4715.19 ug/L	96
34) 1,2-Dichloroethane SCAN	7.062	62	205363	5395.85 ug/L	90
35) Trichloroethene SCAN	8.066	130	100640	4926.93 ug/L	95
36) Toluene-d8 SCAN	9.996	98	341256	4962.60 ug/L	100
37) Toluene SCAN	10.090	91	443671	4837.40 ug/L	97
38) 1,1,2-Trichloroethane ...	10.783	97	102763	4974.91 ug/L	98
39) Tetrachloroethene SCAN	10.919	166	92635	4926.66 ug/L	94
40) Chlorobenzene SCAN	12.280	112	279520	4961.49 ug/L	97
41) 1,1,1,2-Tetrachloroeth...	12.439	131	84486	4818.40 ug/L	97
42) Ethylbenzene SCAN	12.487	91	501592	4884.23 ug/L	98
43) m&p-Xylene SCAN	12.677	91	786989	4908.17 ug/L	96
44) o-Xylene SCAN	13.297	91	404183	4895.18 ug/L	98
45) 1,1,2,2-Tetrachloroeth...	14.431	83	179877	4815.98 ug/L	97
46) 1,3,5-Trimethylbenzene...	14.857	105	400906	5118.81 ug/L	94
47) 1,2,4-Trimethylbenzene...	15.437	105	406211	4977.03 ug/L	98
48) Naphthalene SCAN	17.661	128	575806	5115.35 ug/L	99

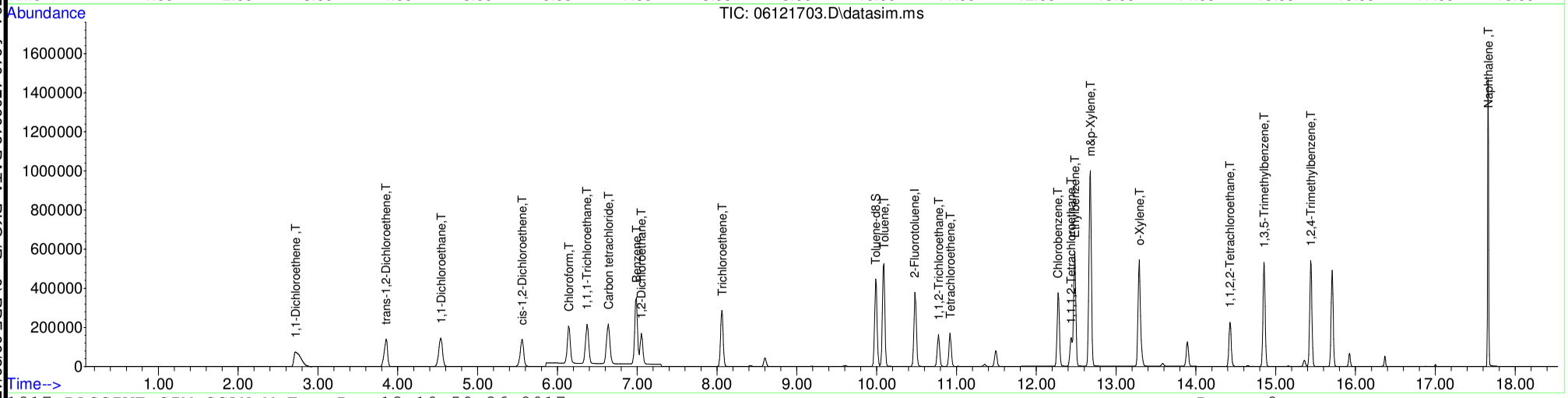
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121703.D
Acq On : 12 Jun 2017 12:20
InstName : AG5975C
Operator : RH
Sample : S17F044-CCV1
Misc : 1717064 5 mg/L
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 12 12:55:02 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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S17F044-CRL1

QLS REPORT

Instrument Name: AG5975C
Sample Name: S17F044-CRL1
Misc Info: 1717062 0.05 mg/L
Date Acquired: 6/12/17 12:43
QLast Update: Tue Jun 06 15:10:51 2017
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.480	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	2.711	50.0	56.24	112%	60	140	pass
3)	trans-1,2-Dichloroethene	3.869	50.0	57.88	116%	60	140	pass
4)	1,1-Dichloroethane	4.553	50.0	56.45	113%	60	140	pass
5)	cis-1,2-Dichloroethene	5.568	50.0	54.51	109%	60	140	pass
6)	Chloroform	6.152	50.0	58.74	117%	60	140	pass
7)	1,1,1-Trichloroethane	6.383	50.0	53.44	107%	60	140	pass
8)	Carbon tetrachloride	6.638	50.0	52.08	104%	60	140	pass
10)	1,2-Dichloroethane	7.064	50.0	53.99	108%	60	140	pass
11)	Trichloroethene	8.063	50.0	52.32	105%	60	140	pass
12)	Toluene-d8	9.987	50.0	51.83	104%	60	140	pass
13)	Toluene	10.092	50.0	59.18	118%	60	140	pass
14)	1,1,2-Trichloroethane	10.774	50.0	52.25	104%	60	140	pass
15)	Tetrachloroethene	10.921	50.0	51.91	104%	60	140	pass
16)	Chlorobenzene	12.274	50.0	51.73	103%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.433	50.0	48.68	97%	60	140	pass
18)	Ethylbenzene	12.480	50.0	50.64	101%	60	140	pass
19)	m&p-Xylene	12.679	100.0	99.80	100%	60	140	pass
20)	o-Xylene	13.291	50.0	50.70	101%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.429	50.0	48.86	98%	60	140	pass
22)	1,3,5-Trimethylbenzene	14.853	50.0	48.00	96%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.439	50.0	48.23	96%	60	140	pass
24)	Naphthalene	17.661	50.0	53.22	106%	60	140	pass

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121704.D
Acq On : 12 Jun 2017 12:43
InstName : AG5975C
Operator : RH
Sample : S17F044-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 12 13:02:30 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

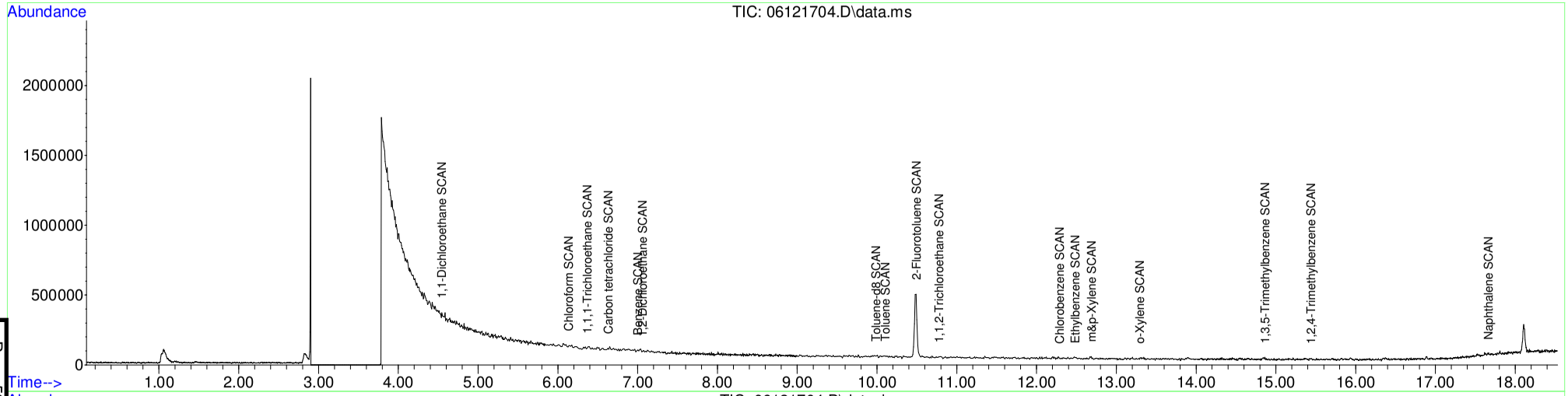
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.480	109	661990	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	9.987	98	5619	51.83	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 1.04%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	2.714	61	3392	64.97	ug/L	83
3] trans-1,2-Dichloroethene	3.849	61	3275	57.88	ug/L	88
4] 1,1-Dichloroethane	4.539	63	3443	56.45	ug/L	99
5] cis-1,2-Dichloroethene	5.554	61	3178	54.51	ug/L	99
6] Chloroform	6.139	83	3314	58.74	ug/L	99
7] 1,1,1-Trichloroethane	6.370	97	2769	53.44	ug/L	98
8] Carbon tetrachloride	6.626	117	2328	52.08	ug/L	98
9] Benzene	6.979	78	10319	78.54	ug/L	93
10] 1,2-Dichloroethane	7.052	62	2628	53.99	ug/L	97
11] Trichloroethene	8.058	130	1768	52.32	ug/L	99
13] Toluene	10.092	91	8497	59.18	ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	1604	52.25	ug/L	97
15] Tetrachloroethene	10.921	166	1910	51.91	ug/L	99
16] Chlorobenzene	12.274	112	4717	51.73	ug/L	94
17] 1,1,1,2-Tetrachloroethane	12.433	131	1457	48.68	ug/L	98
18] Ethylbenzene	12.480	91	7825	50.64	ug/L	96
19] m&p-Xylene	12.679	91	12097	99.80	ug/L	97
20] o-Xylene	13.291	91	6356	50.70	ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.429	83	2605	48.86	ug/L	97
22] 1,3,5-Trimethylbenzene	14.853	105	5941	48.00	ug/L	99
23] 1,2,4-Trimethylbenzene	15.439	105	6120	48.23	ug/L	99
24] Naphthalene	17.661	128	10001	53.22	ug/L	99
25) 2-Fluorotoluene SCAN	10.490	109	381310	4750.83	ug/L	95
28) 1,1-Dichloroethane SCAN	4.545	63	1455	35.41	ug/L #	25
30) Chloroform SCAN	6.138	83	3340	89.09	ug/L	90
31) 1,1,1-Trichloroethane ...	6.369	97	1570	50.89	ug/L #	18
32) Carbon tetrachloride SCAN	6.625	117	1665	58.62	ug/L #	39
33) Benzene SCAN	7.002	78	15596	183.55	ug/L #	67
34) 1,2-Dichloroethane SCAN	7.063	62	1715	46.78	ug/L #	43
36) Toluene-d8 SCAN	9.986	98	4833	72.96	ug/L	85
37) Toluene SCAN	10.101	91	8452	95.67	ug/L	73
38) 1,1,2-Trichloroethane ...	10.773	97	1657	83.28	ug/L #	56
40) Chlorobenzene SCAN	12.288	112	3571	65.80	ug/L #	51
42) Ethylbenzene SCAN	12.487	91	5238	52.95	ug/L	83
43) m&p-Xylene SCAN	12.686	91	8225	53.25	ug/L	89
44) o-Xylene SCAN	13.297	91	4674	58.77	ug/L	87
46) 1,3,5-Trimethylbenzene...	14.857	105	3590	47.58	ug/L	81
47) 1,2,4-Trimethylbenzene...	15.443	105	3545	45.09	ug/L #	58
48) Naphthalene SCAN	17.660	128	6622	61.07	ug/L	81

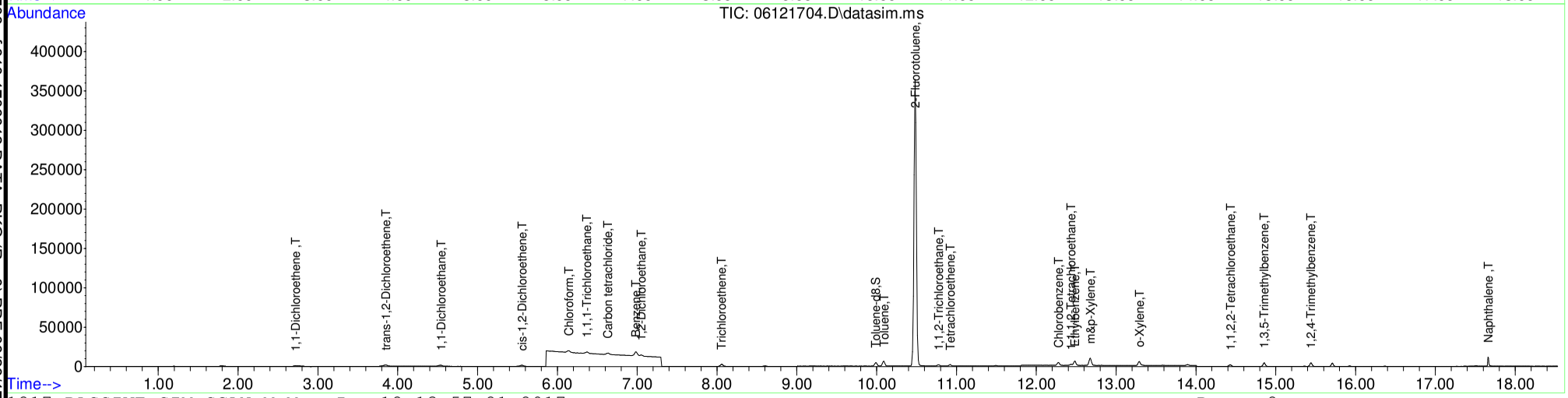
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121704.D
Acq On : 12 Jun 2017 12:43
InstName : AG5975C
Operator : RH
Sample : S17F044-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 12 13:02:30 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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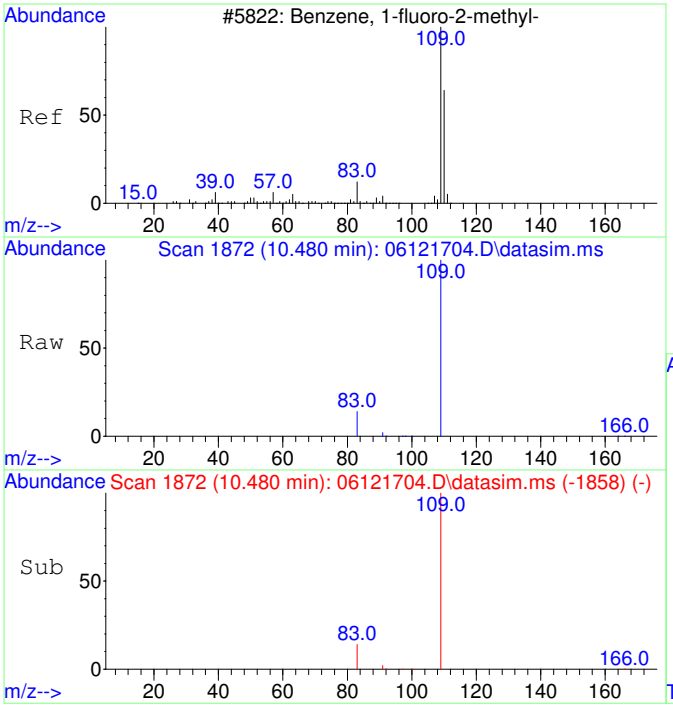
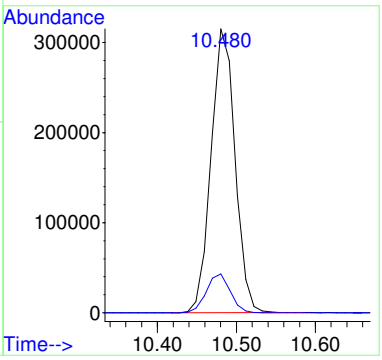
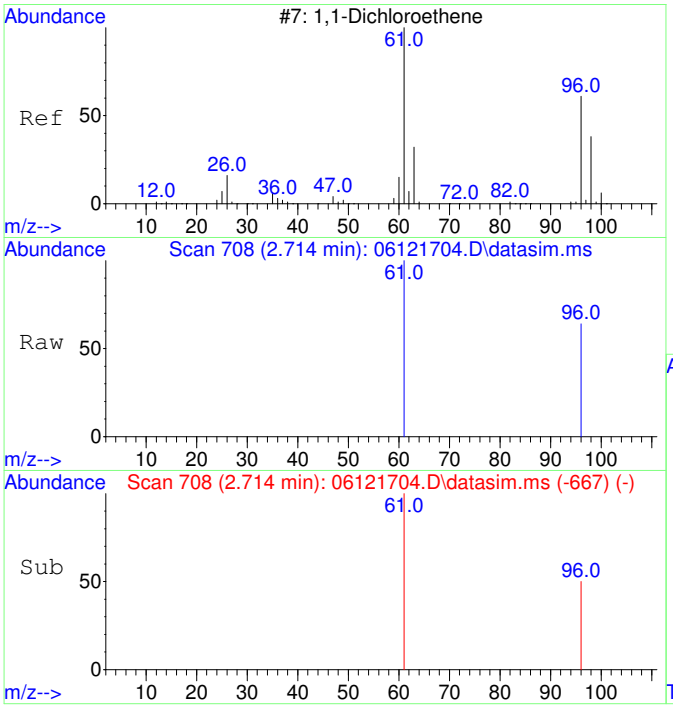


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:109 Resp: 661990

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.4

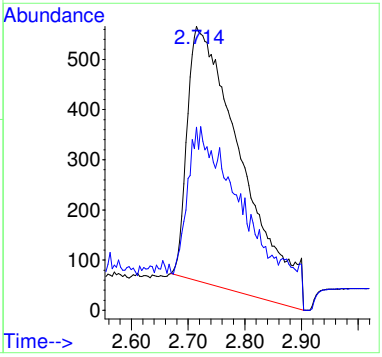




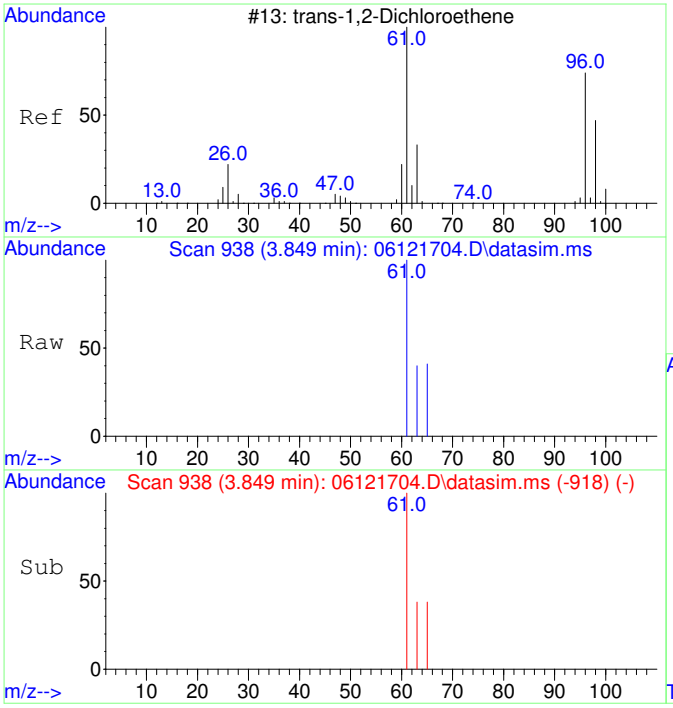
#2
1,1-Dichloroethene
Concen: 64.97 ug/L
RT: 2.714 min Scan# 708
Delta R.T. 0.004 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 61 Resp: 3392

Ion	Ratio	Lower	Upper
61	100		
96	63.8	21.8	81.8



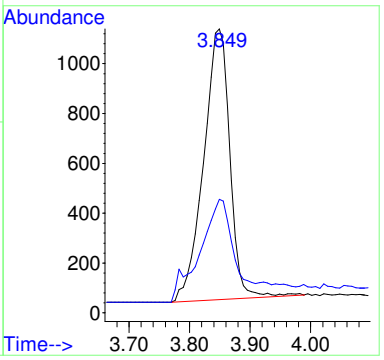
Before MI:
IMPROPER
BASELINE

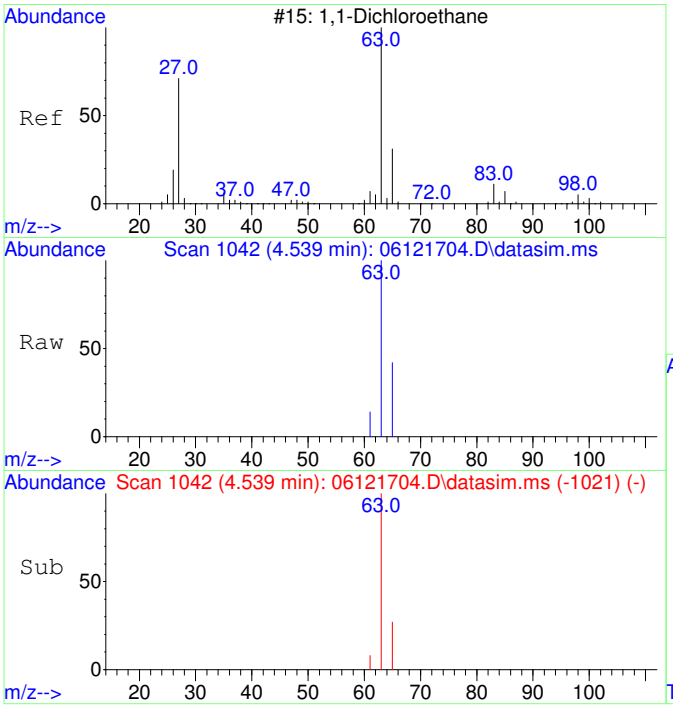


#3
trans-1,2-Dichloroethene
Concen: 57.88 ug/L
RT: 3.849 min Scan# 938
Delta R.T. -0.020 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 61 Resp: 3275

Ion	Ratio	Lower	Upper
61	100		
63	24.2	1.0	61.0

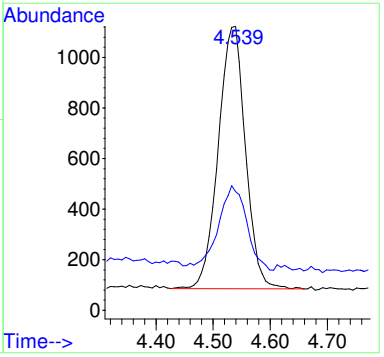


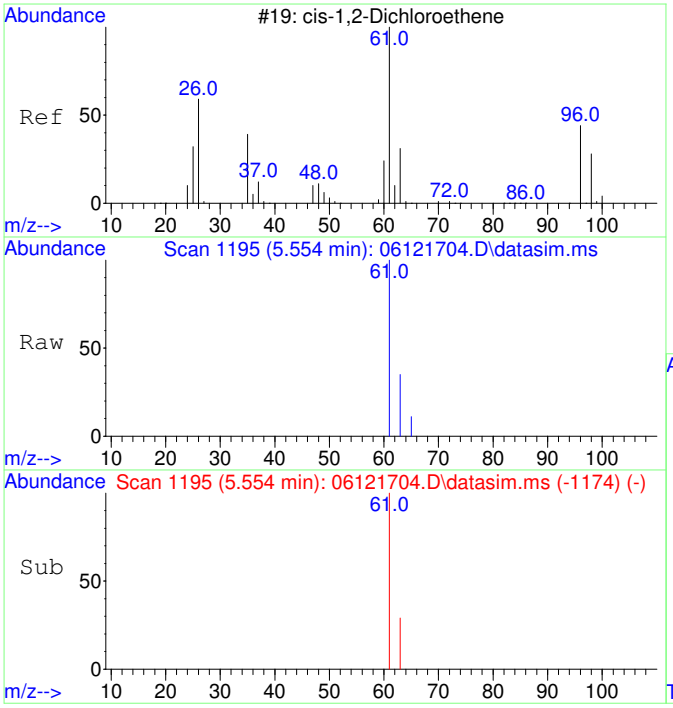


#4
1,1-Dichloroethane
Concen: 56.45 ug/L
RT: 4.539 min Scan# 1042
Delta R.T. -0.013 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 63 Resp: 3443

Ion	Ratio	Lower	Upper
63	100		
65	31.0	0.4	60.4

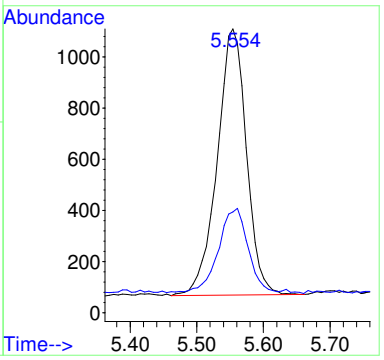


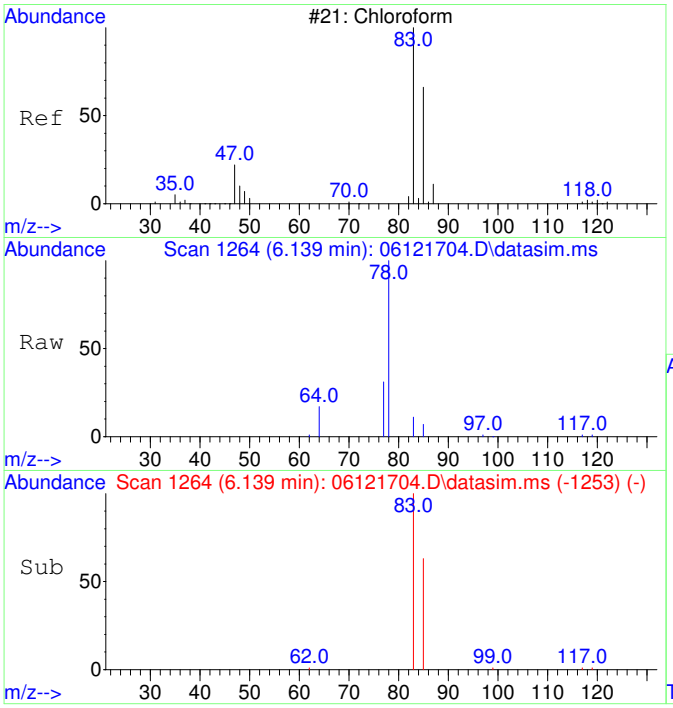


#5
cis-1,2-Dichloroethene
Concen: 54.51 ug/L
RT: 5.554 min Scan# 1195
Delta R.T. -0.013 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 61 Resp: 3178

Ion	Ratio	Lower	Upper
61	100		
63	31.5	0.9	60.9

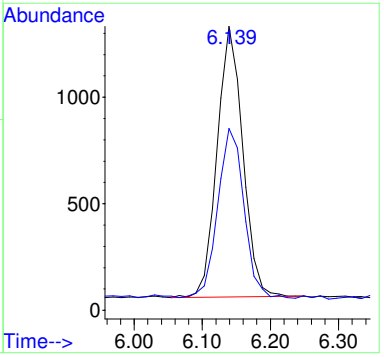


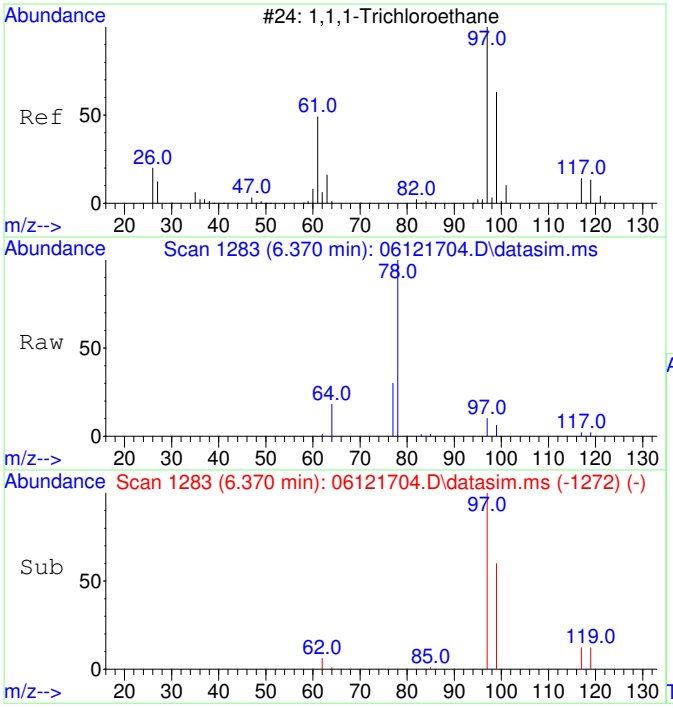


#6
Chloroform
Concen: 58.74 ug/L
RT: 6.139 min Scan# 1264
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 83 Resp: 3314

Ion	Ratio	Lower	Upper
83	100		
85	62.6	33.7	93.7

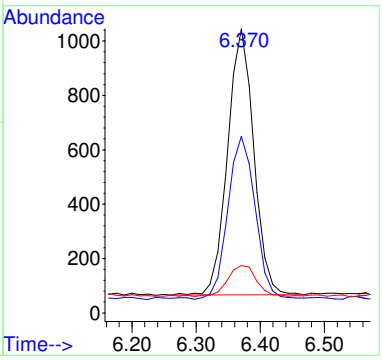


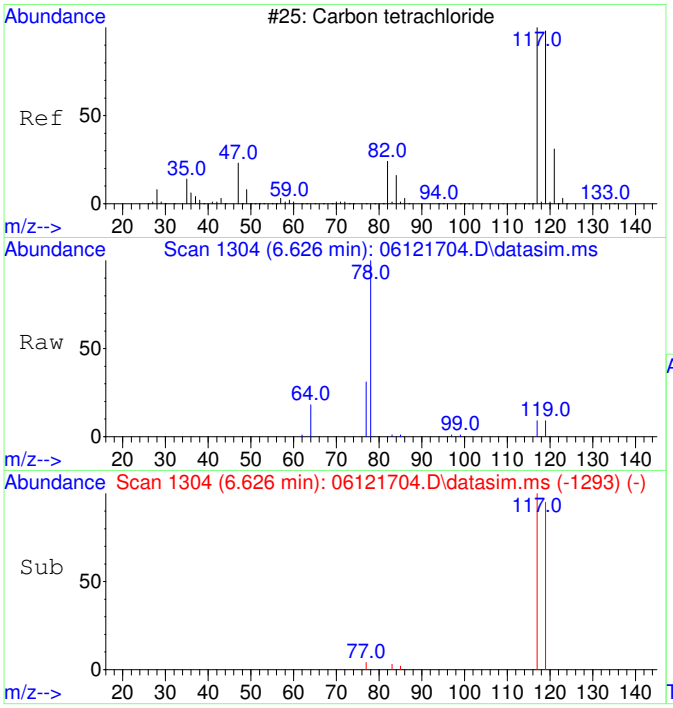


#7
1,1,1-Trichloroethane
Concen: 53.44 ug/L
RT: 6.370 min Scan# 1283
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 2769

Ion	Ratio	Lower	Upper
97	100		
99	63.0	34.3	94.3
117	12.6	0.0	42.3

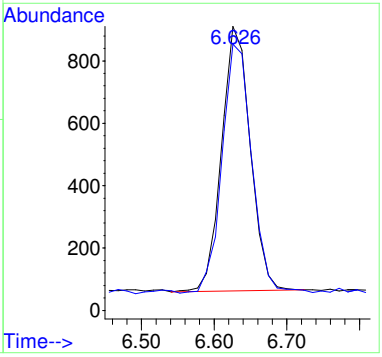


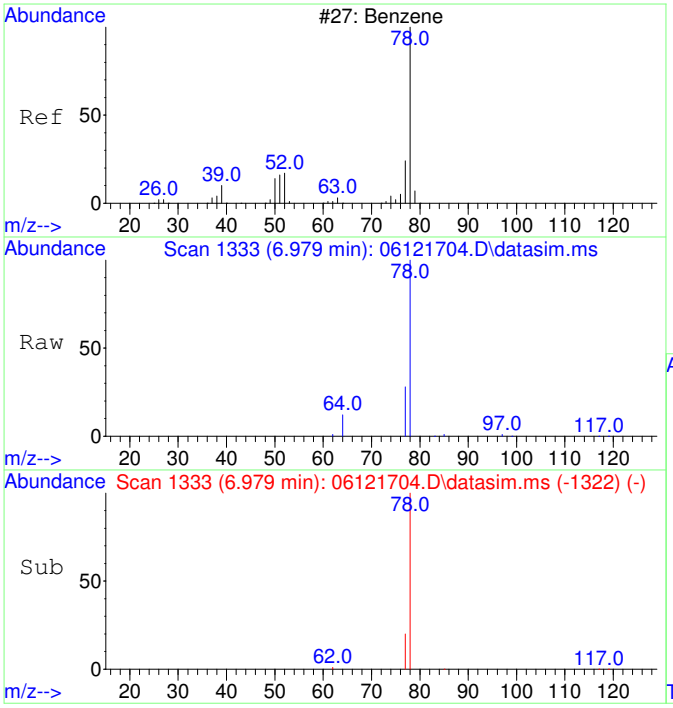


#8
Carbon tetrachloride
Concen: 52.08 ug/L
RT: 6.626 min Scan# 1304
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:117 Resp: 2328

Ion	Ratio	Lower	Upper
117	100		
119	97.3	65.5	125.5

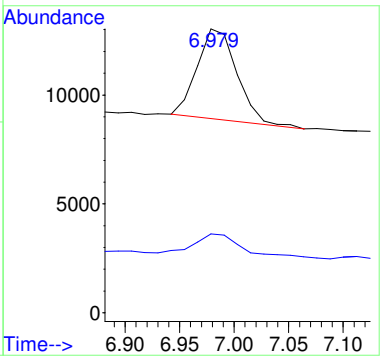


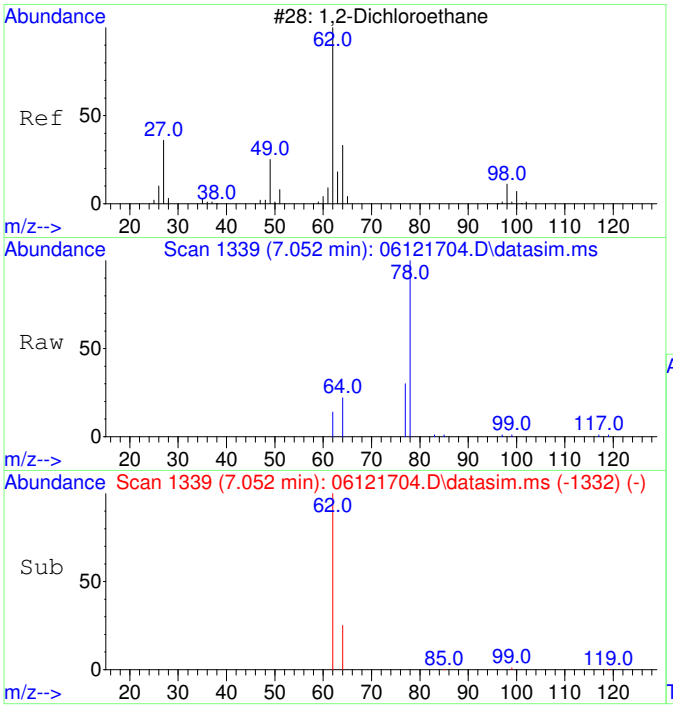


#9
Benzene
Concen: 78.54 ug/L
RT: 6.979 min Scan# 1333
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 78 Resp: 10319

Ion	Ratio	Lower	Upper
78	100		
77	26.3	0.0	53.0

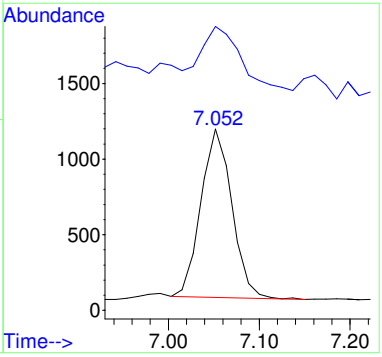


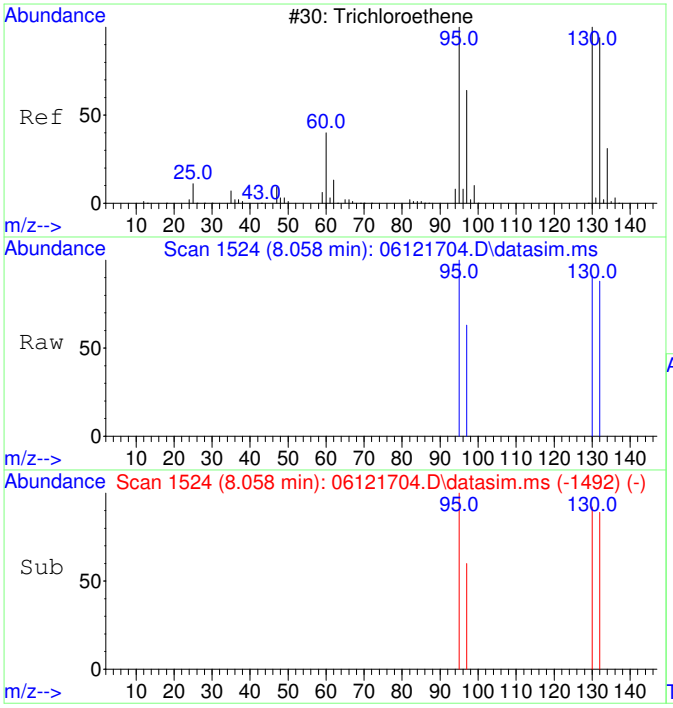


#10
1,2-Dichloroethane
Concen: 53.99 ug/L
RT: 7.052 min Scan# 1339
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 62 Resp: 2628

Ion	Ratio	Lower	Upper
62	100		
64	30.7	2.6	62.6

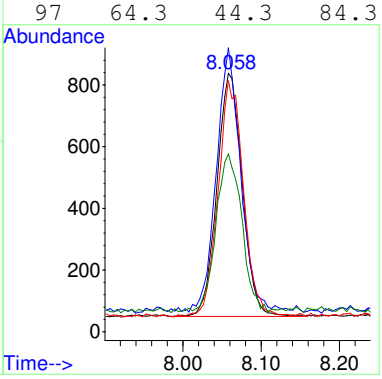


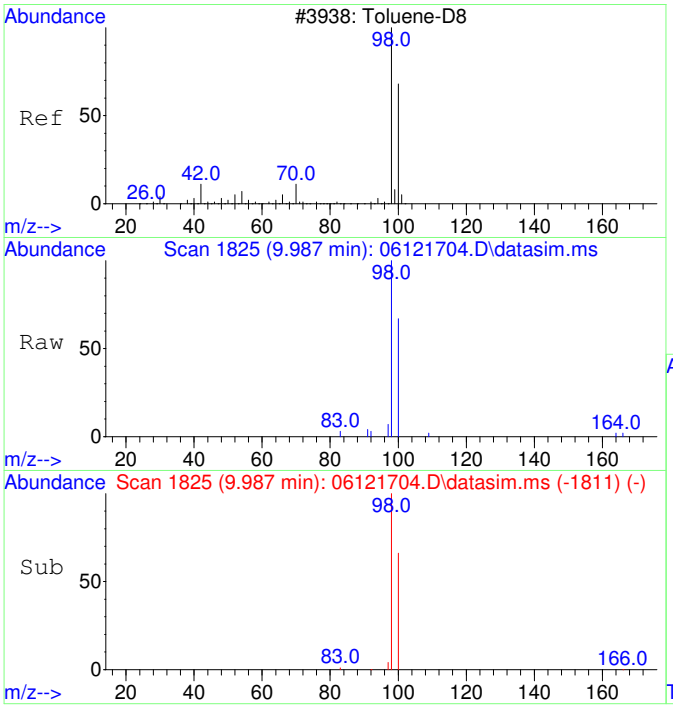


#11
Trichloroethene
Concen: 52.32 ug/L
RT: 8.058 min Scan# 1524
Delta R.T. -0.005 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:130 Resp: 1768

Ion	Ratio	Lower	Upper
130	100		
95	103.3	69.8	129.8
132	96.3	76.4	116.4
97	64.3	44.3	84.3

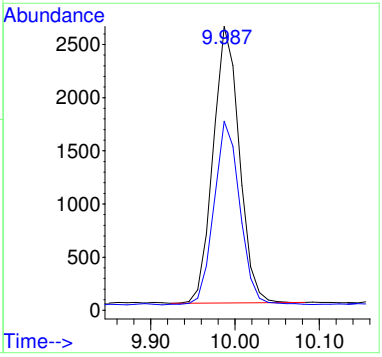


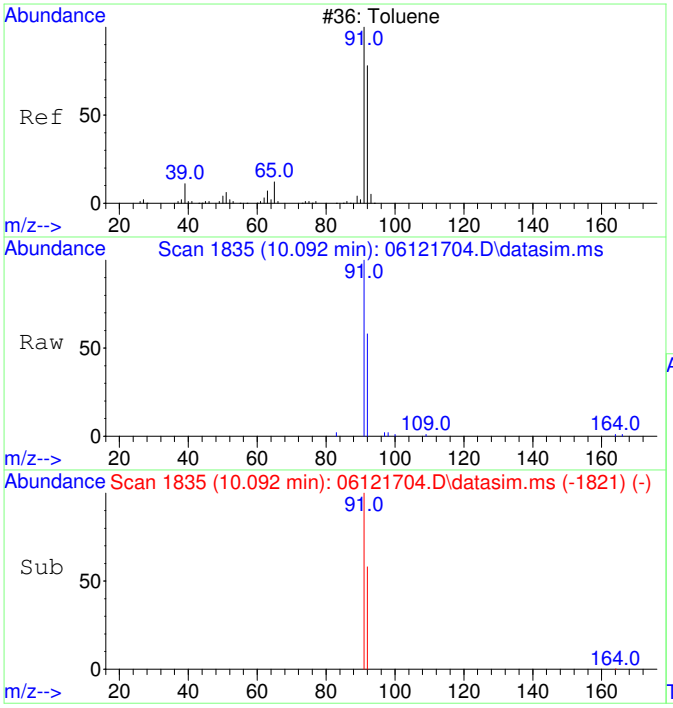


#12
Toluene-d8
Concen: 51.83 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 98 Resp: 5619

Ion	Ratio	Lower	Upper
98	100		
100	65.1	34.2	94.2

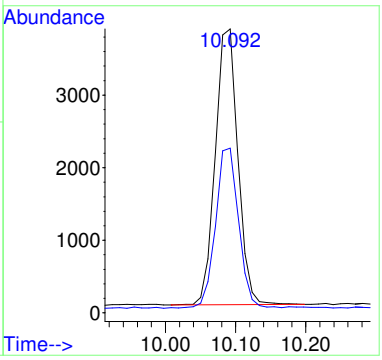


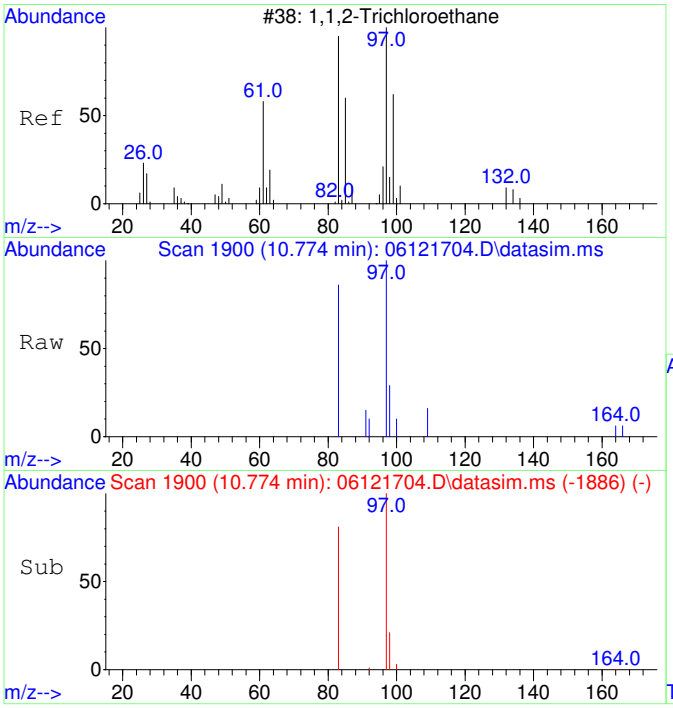


#13
Toluene
Concen: 59.18 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 8497

Ion	Ratio	Lower	Upper
91	100		
92	58.0	28.4	88.4

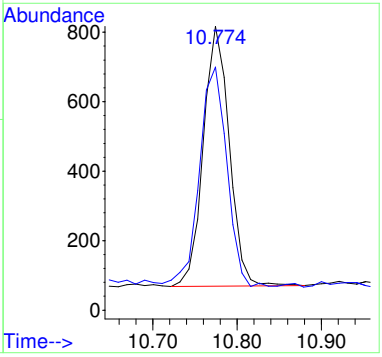


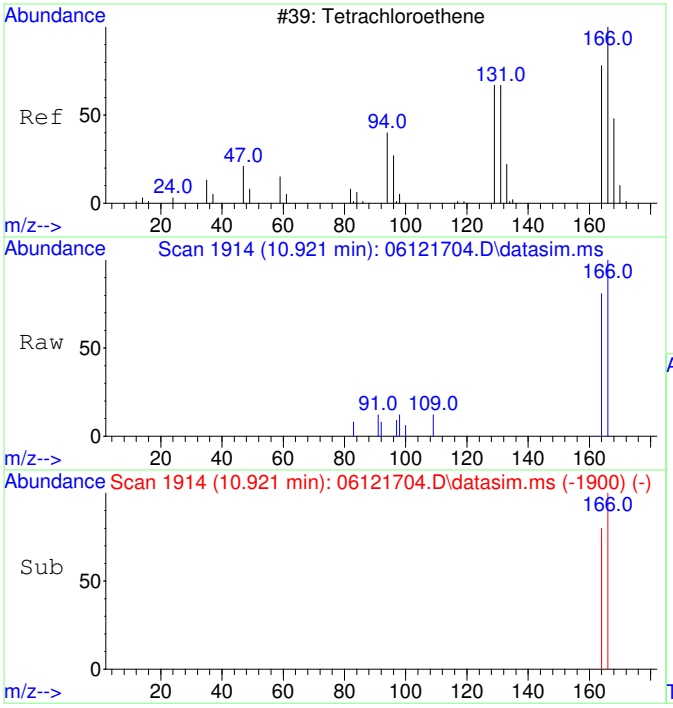


#14
1,1,2-Trichloroethane
Concen: 52.25 ug/L
RT: 10.774 min Scan# 1900
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 1604

Ion	Ratio	Lower	Upper
97	100		
83	87.1	54.5	114.5

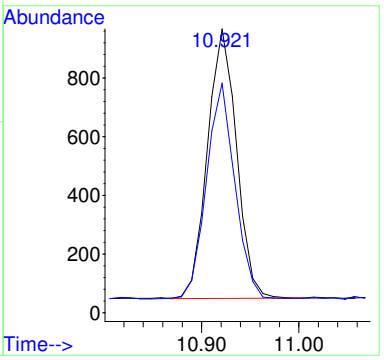


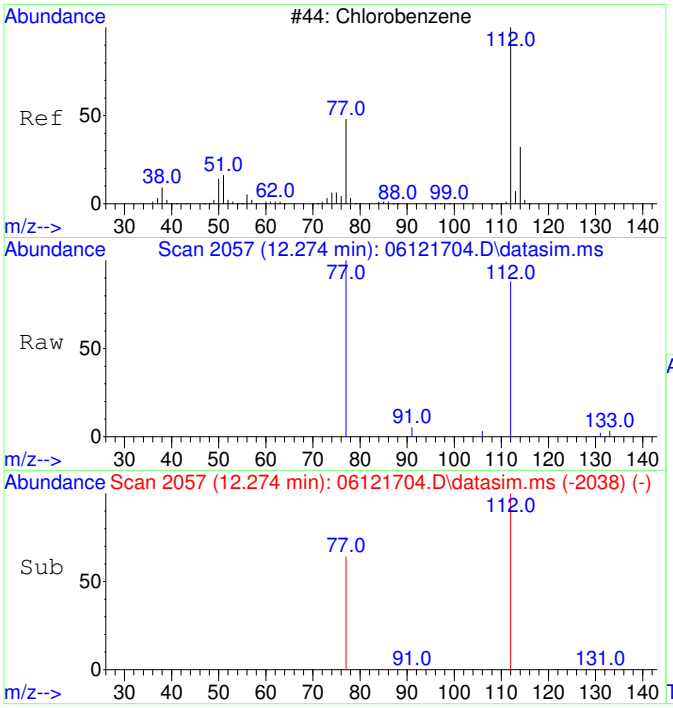


#15
Tetrachloroethene
Concen: 51.91 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:166 Resp: 1910

Ion	Ratio	Lower	Upper
166	100		
164	77.2	48.1	108.1

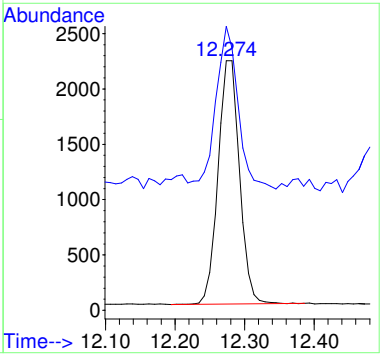


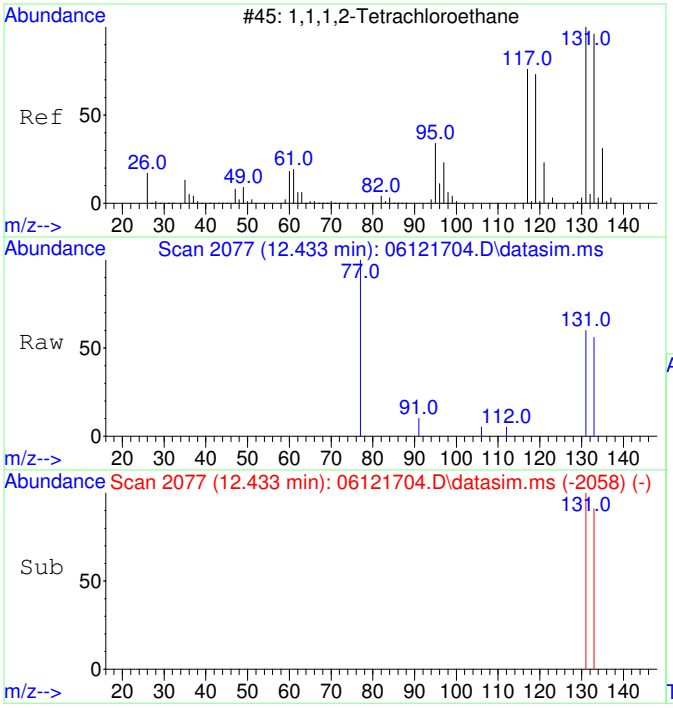


#16
Chlorobenzene
Concen: 51.73 ug/L
RT: 12.274 min Scan# 2057
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:112 Resp: 4717

Ion	Ratio	Lower	Upper
112	100		
77	63.2	28.9	88.9

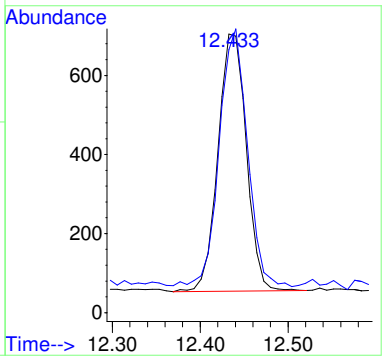


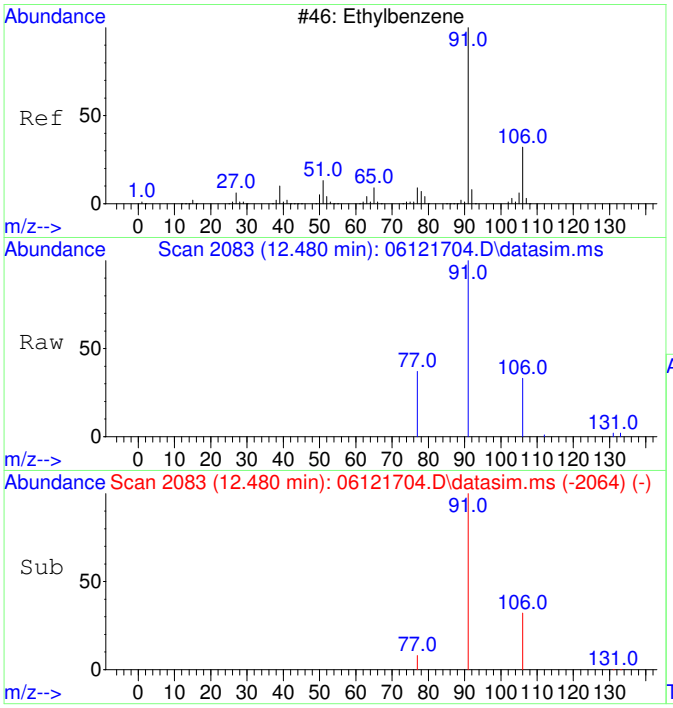


#17
1,1,1,2-Tetrachloroethane
Concen: 48.68 ug/L
RT: 12.433 min Scan# 2077
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:131 Resp: 1457

Ion	Ratio	Lower	Upper
131	100		
133	97.5	65.2	125.2

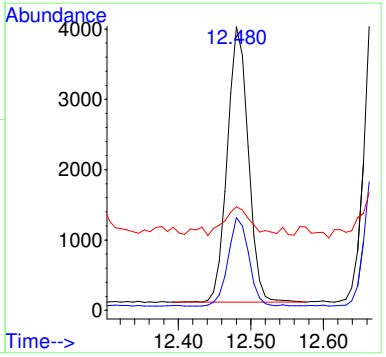


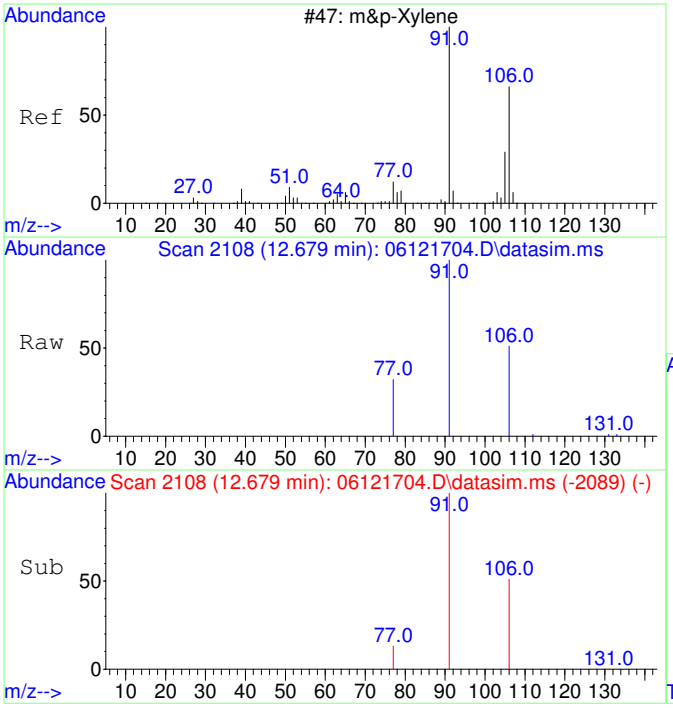


#18
Ethylbenzene
Concen: 50.64 ug/L
RT: 12.480 min Scan# 2083
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 7825

Ion	Ratio	Lower	Upper
91	100		
106	31.7	1.2	61.2
77	13.6	0.0	38.6

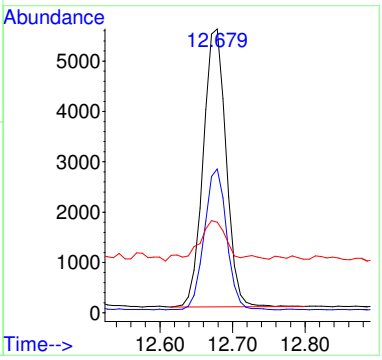


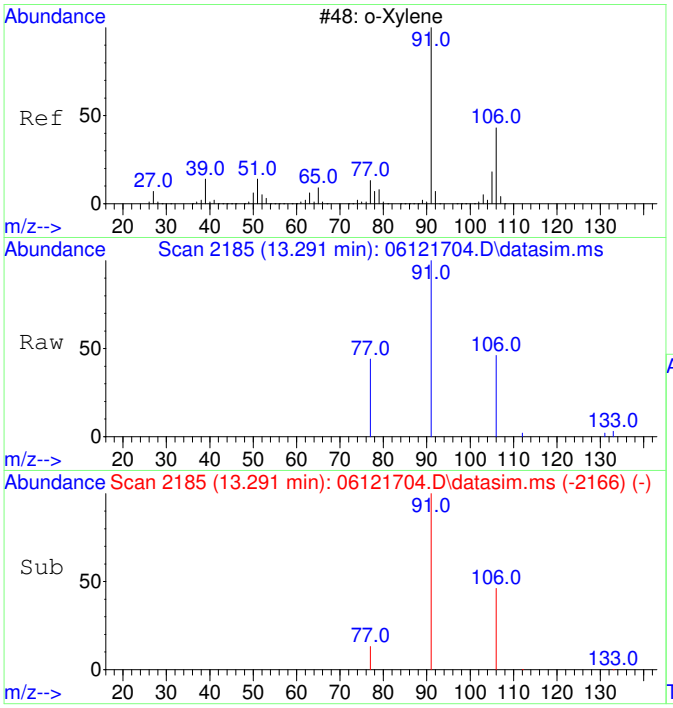


#19
m&p-Xylene
Concen: 99.80 ug/L
RT: 12.679 min Scan# 2108
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 12097

Ion	Ratio	Lower	Upper
91	100		
106	49.5	18.4	78.4
77	15.6	0.0	43.1

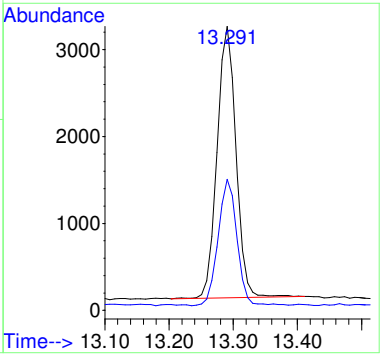


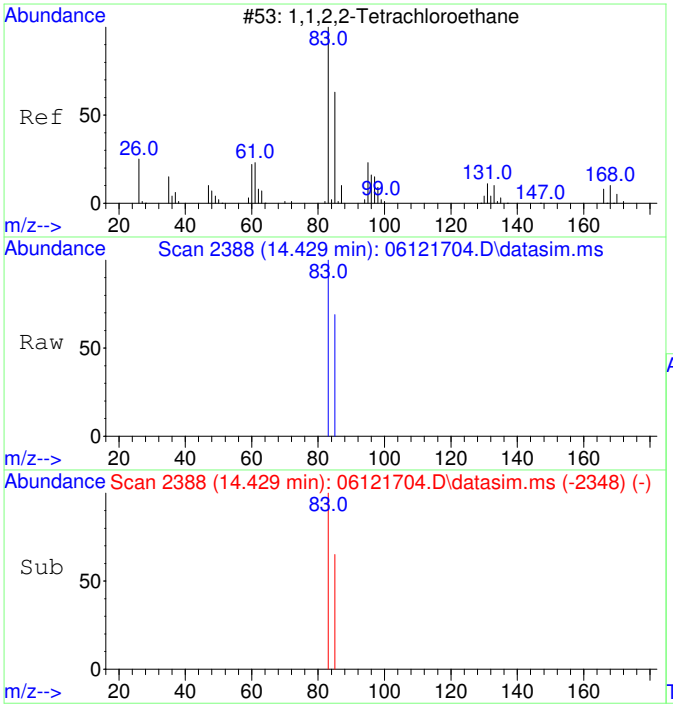


#20
o-Xylene
Concen: 50.70 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 6356

Ion	Ratio	Lower	Upper
91	100		
106	45.7	16.0	76.0

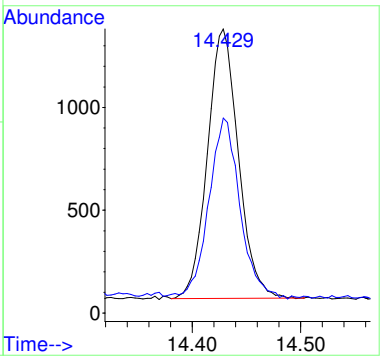


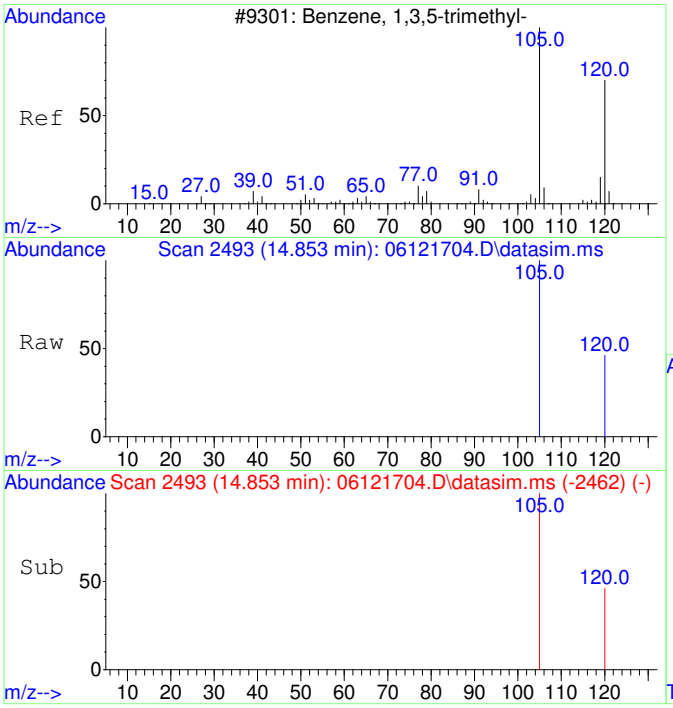


#21
1,1,2,2-Tetrachloroethane
Concen: 48.86 ug/L
RT: 14.429 min Scan# 2388
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 83 Resp: 2605

Ion	Ratio	Lower	Upper
83	100		
85	66.3	34.1	94.1

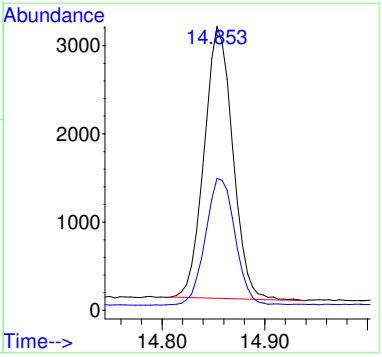


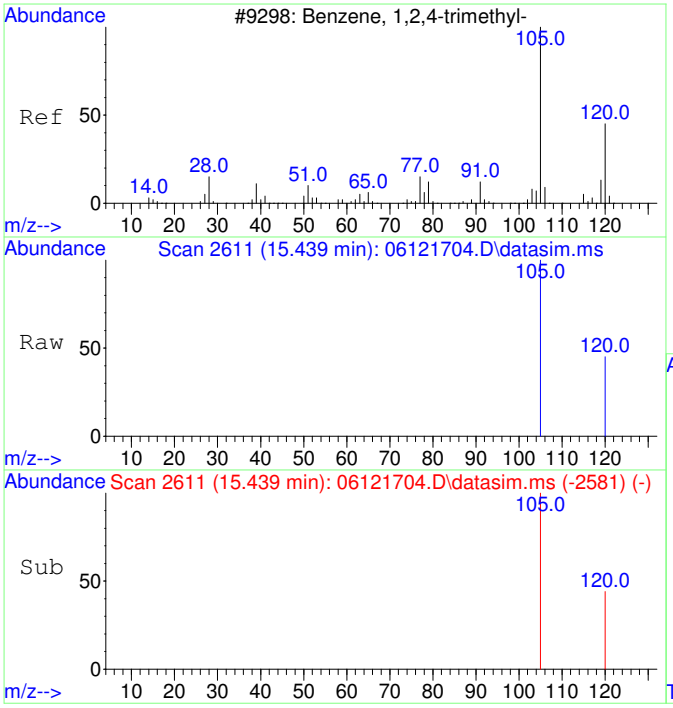


#22
1,3,5-Trimethylbenzene
Concen: 48.00 ug/L
RT: 14.853 min Scan# 2493
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 5941

Ion	Ratio	Lower	Upper
105	100		
120	48.6	18.0	78.0

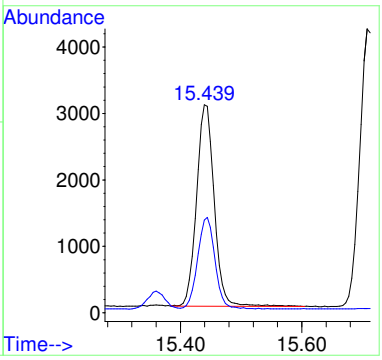


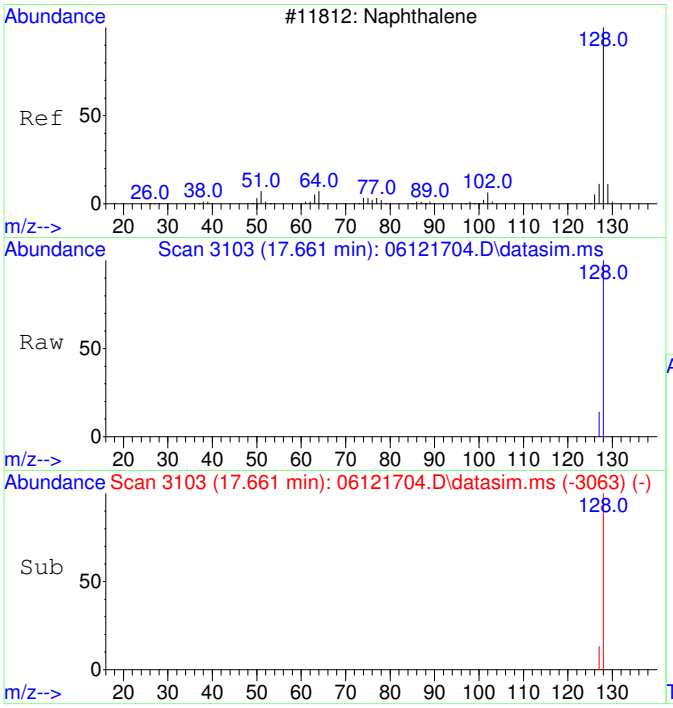


#23
1,2,4-Trimethylbenzene
Concen: 48.23 ug/L
RT: 15.439 min Scan# 2611
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 6120

Ion	Ratio	Lower	Upper
105	100		
120	43.8	14.4	74.4

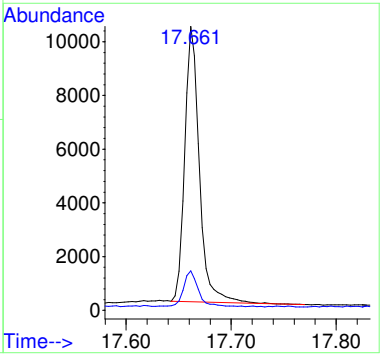


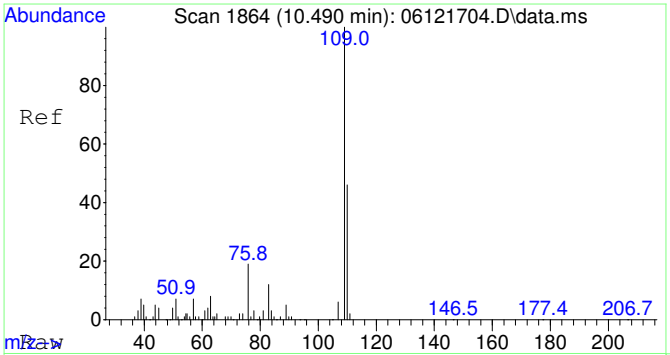


#24
Naphthalene
Concen: 53.22 ug/L
RT: 17.661 min Scan# 3103
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:128 Resp: 10001

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.7

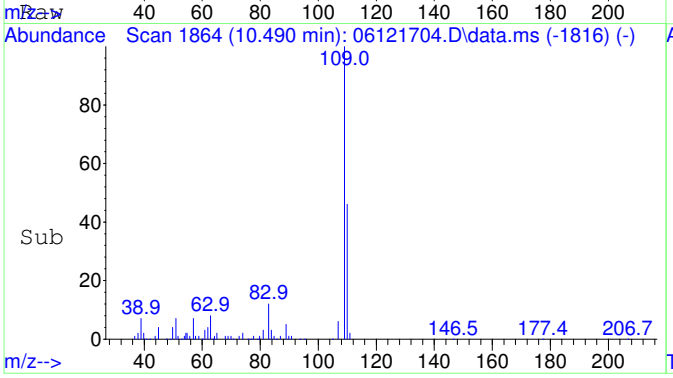


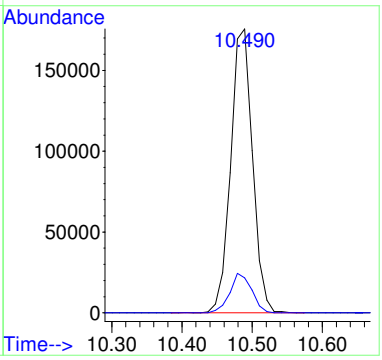


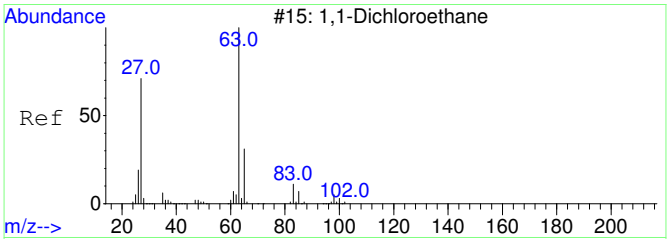
#25
2-Fluorotoluene SCAN
Concen: 4750.83 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:109 Resp: 381310

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	46.1



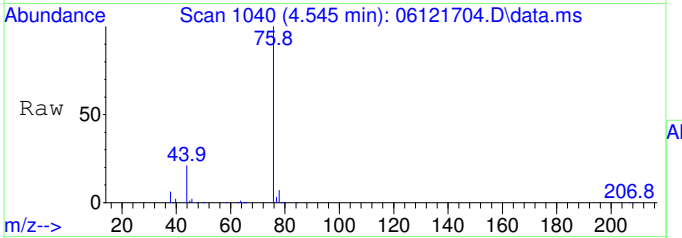


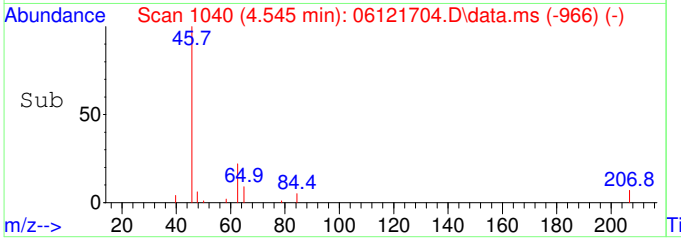


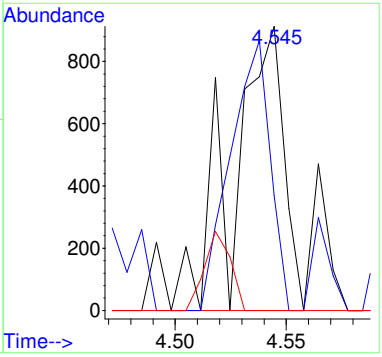
#28
1,1-Dichloroethane SCAN
Concen: 35.41 ug/L
RT: 4.545 min Scan# 1040
Delta R.T. -0.007 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

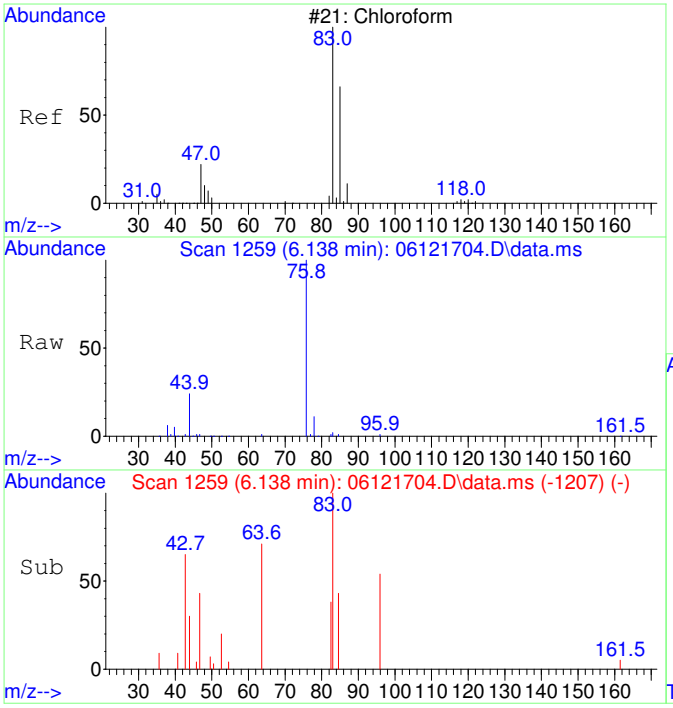
Tgt Ion: 63 Resp: 1455

Ion	Ratio	Lower	Upper
63	100		
65	74.5	1.1	61.1#
83	0.0	0.0	31.5





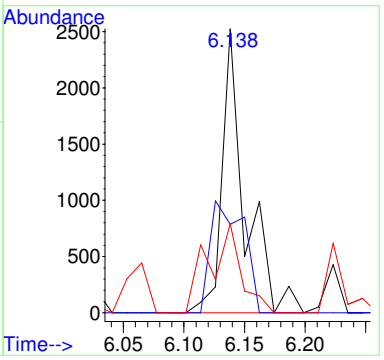


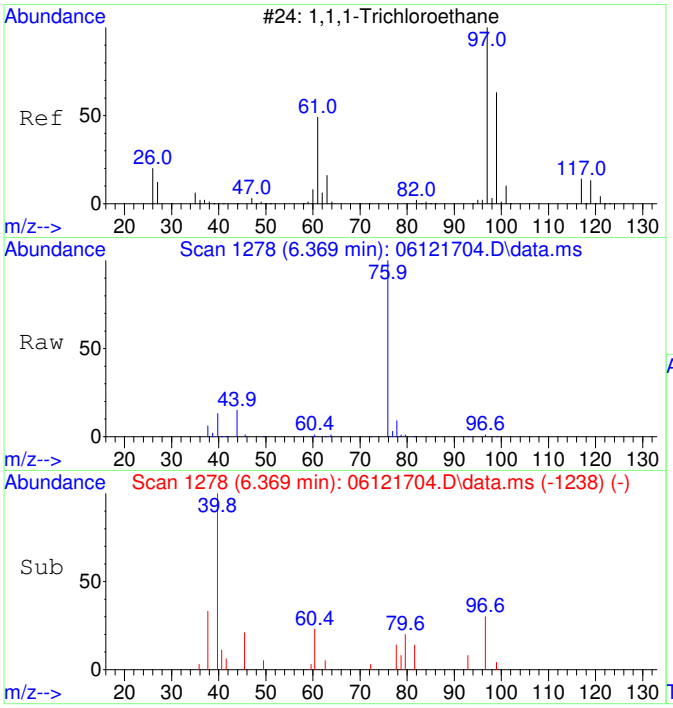


#30
Chloroform SCAN
Concen: 89.09 ug/L
RT: 6.138 min Scan# 1259
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 83 Resp: 3340

Ion	Ratio	Lower	Upper
83	100		
85	57.6	31.2	91.2
47	44.5	3.2	63.2

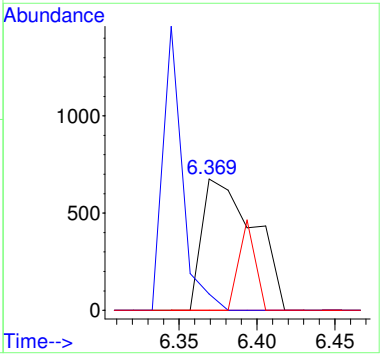


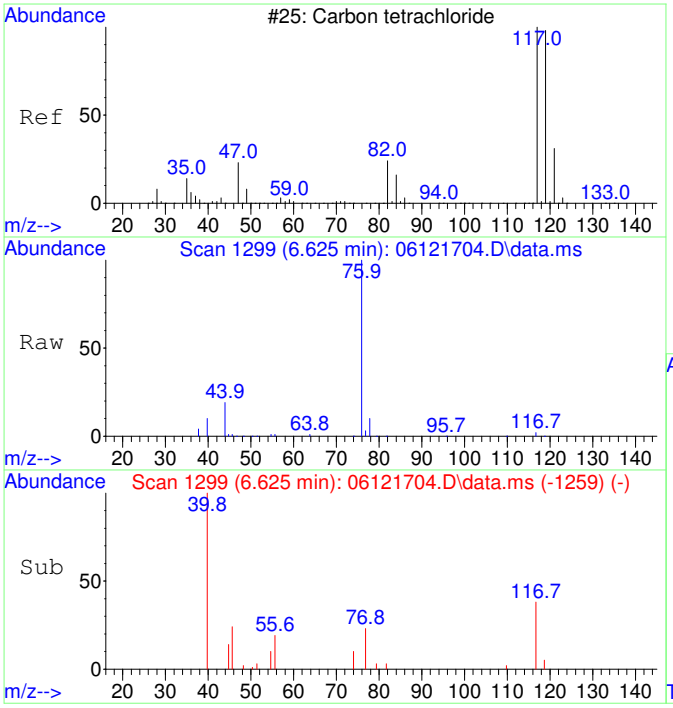


#31
1,1,1-Trichloroethane SCAN
Concen: 50.89 ug/L
RT: 6.369 min Scan# 1278
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 1570

Ion	Ratio	Lower	Upper
97	100		
99	0.0	38.7	98.7#
61	0.0	27.8	87.8#

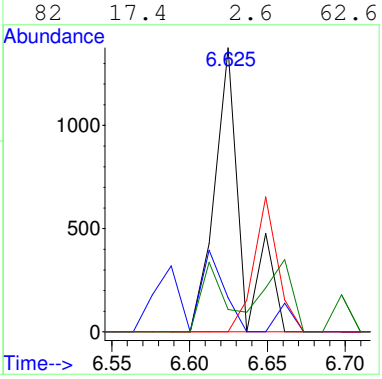


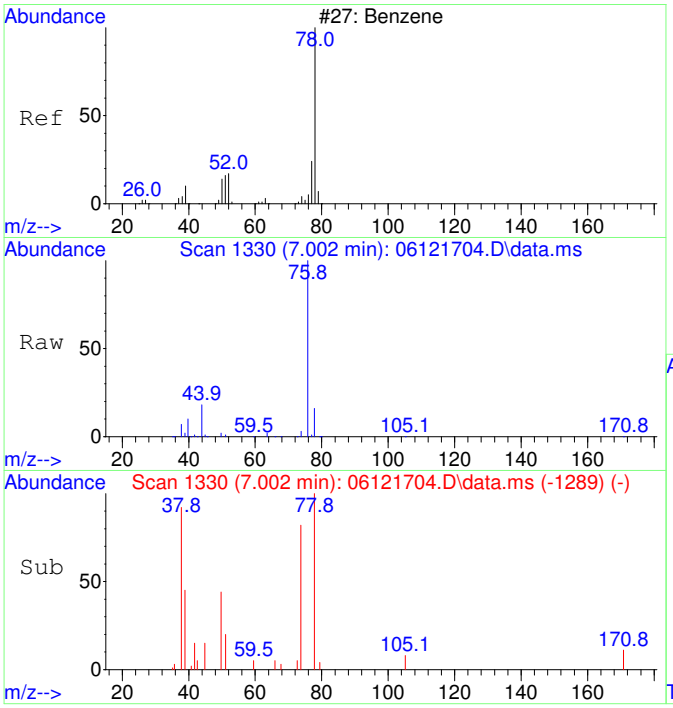


#32
Carbon tetrachloride SCAN
Concen: 58.62 ug/L
RT: 6.625 min Scan# 1299
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:117 Resp: 1665

Ion	Ratio	Lower	Upper
117	100		
119	24.6	66.8	126.8#
121	0.0	0.4	60.4#
82	17.4	2.6	62.6

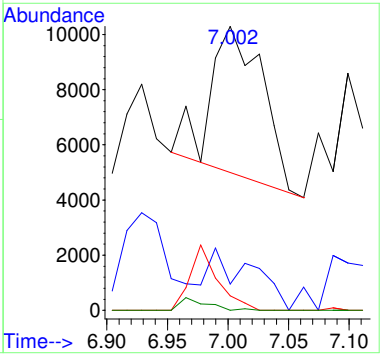


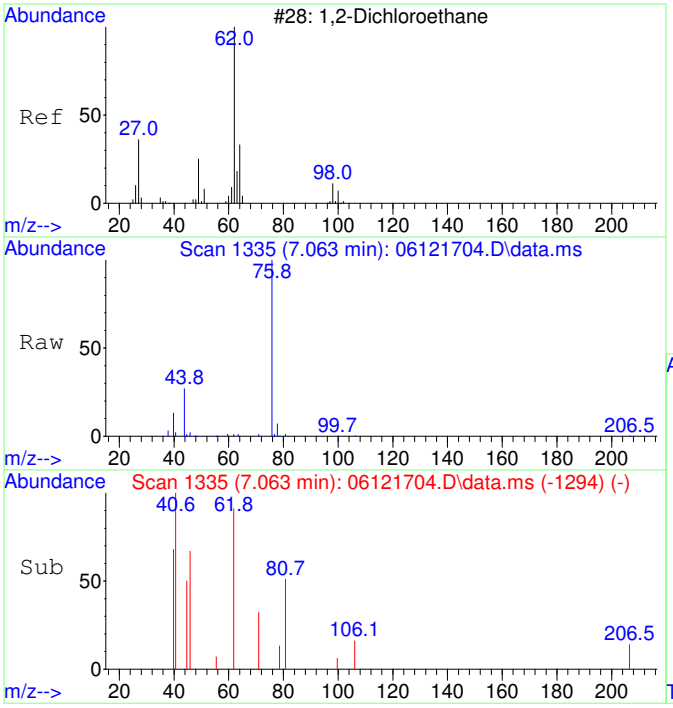


#33
Benzene SCAN
Concen: 183.55 ug/L
RT: 7.002 min Scan# 1330
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 78 Resp: 15596

Ion	Ratio	Lower	Upper
78	100		
77	21.8	0.0	55.2
51	0.0	0.0	52.4
52	0.0	0.0	53.3

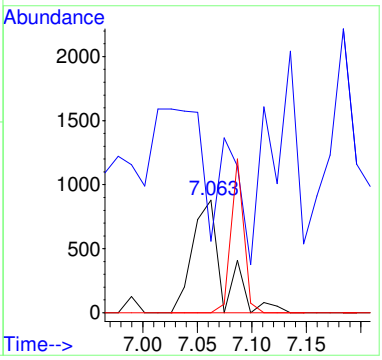


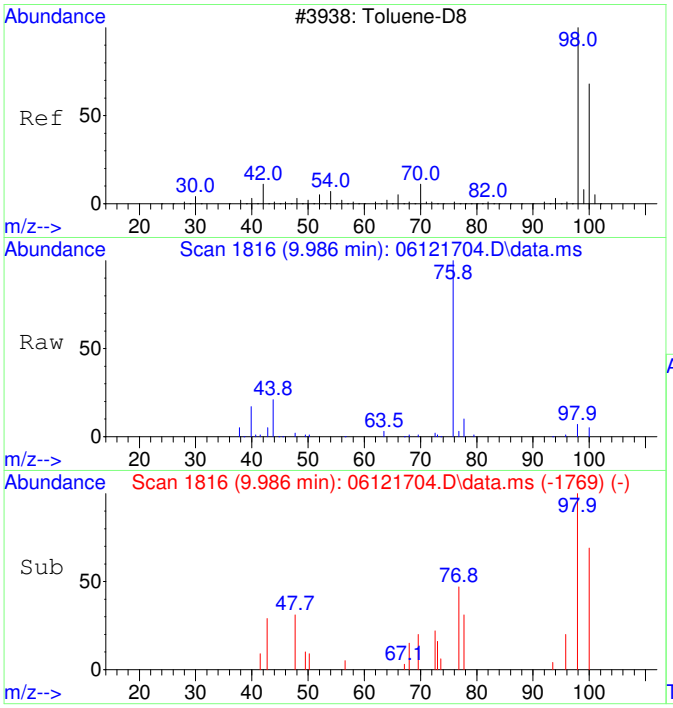


#34
1,2-Dichloroethane SCAN
Concen: 46.78 ug/L
RT: 7.063 min Scan# 1335
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 62 Resp: 1715

Ion	Ratio	Lower	Upper
62	100		
64	0.0	7.4	67.4#
49	0.0	0.0	54.8

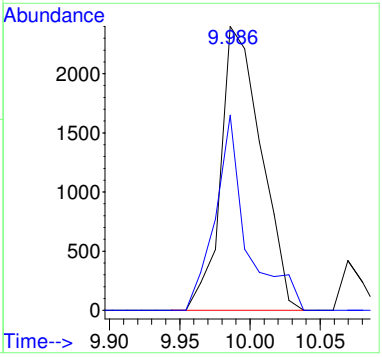


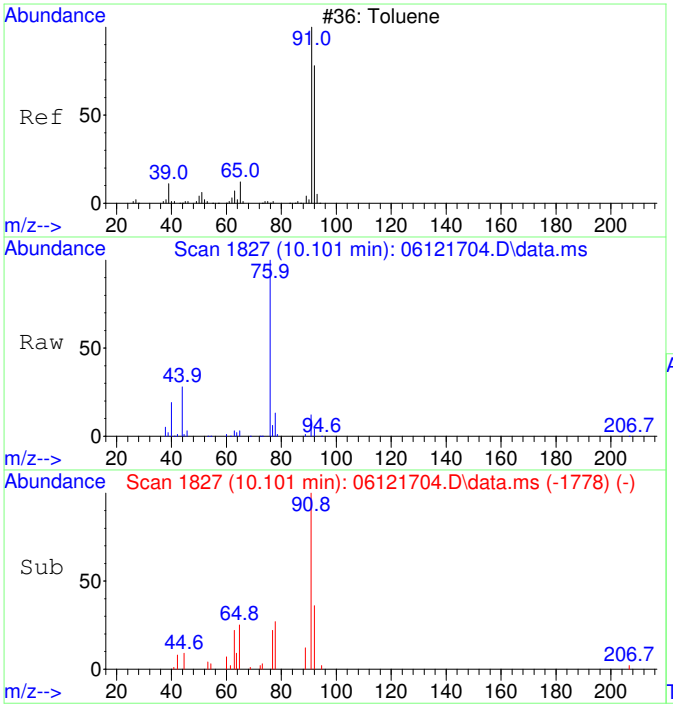


#36
Toluene-d8 SCAN
Concen: 72.96 ug/L
RT: 9.986 min Scan# 1816
Delta R.T. -0.011 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 98 Resp: 4833

Ion	Ratio	Lower	Upper
98	100		
100	54.3	36.2	96.2

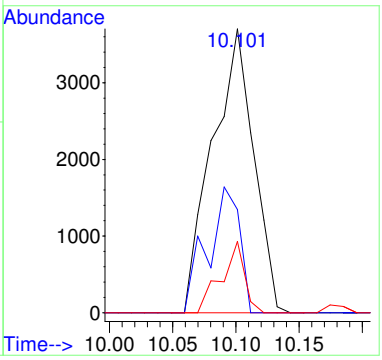


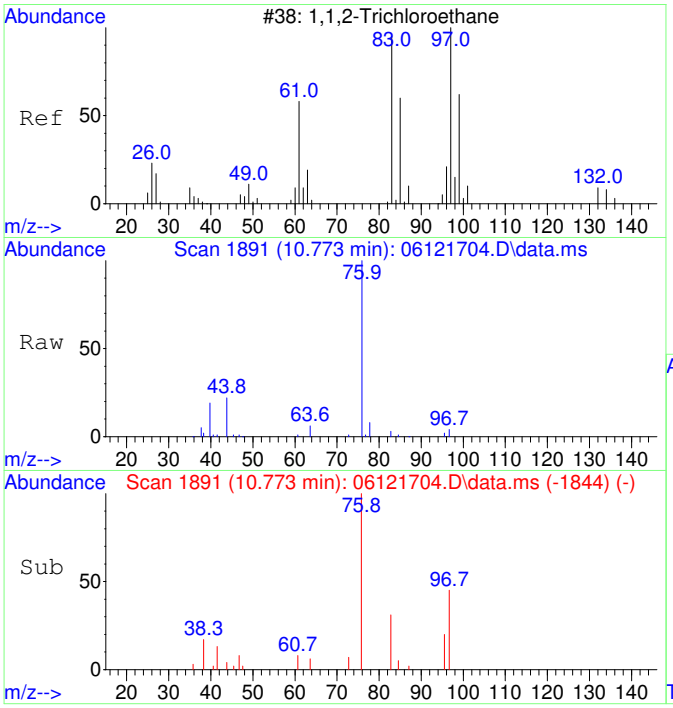


#37
Toluene SCAN
Concen: 95.67 ug/L
RT: 10.101 min Scan# 1827
Delta R.T. 0.010 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 8452

Ion	Ratio	Lower	Upper
91	100		
92	34.1	29.2	89.2
65	14.2	0.0	44.3

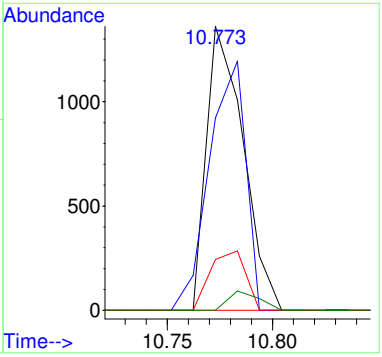


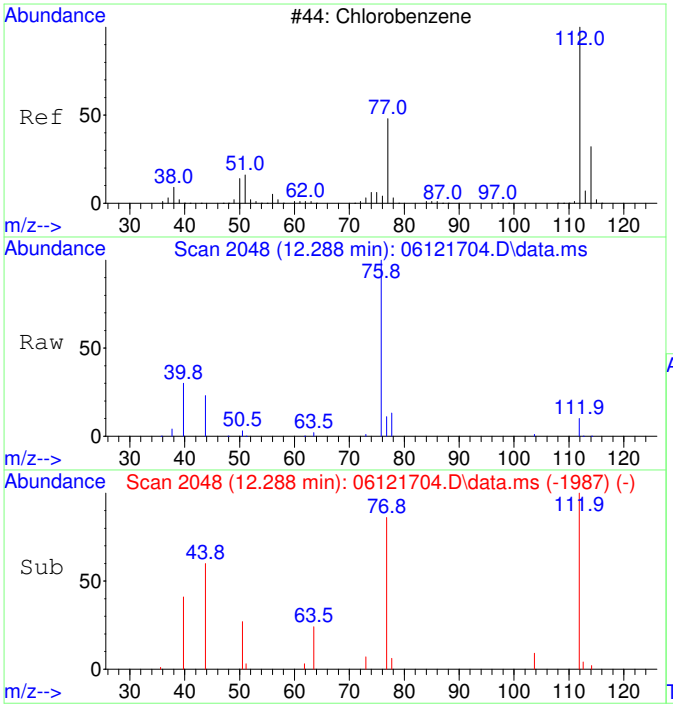


#38
1,1,2-Trichloroethane SCAN
Concen: 83.28 ug/L
RT: 10.773 min Scan# 1891
Delta R.T. -0.011 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 1657

Ion	Ratio	Lower	Upper
97	100		
83	86.8	57.8	117.8
61	20.0	48.6	108.6#
99	5.7	32.7	92.7#

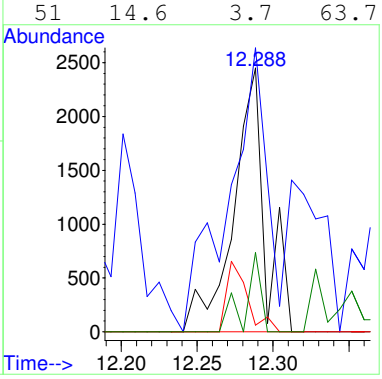


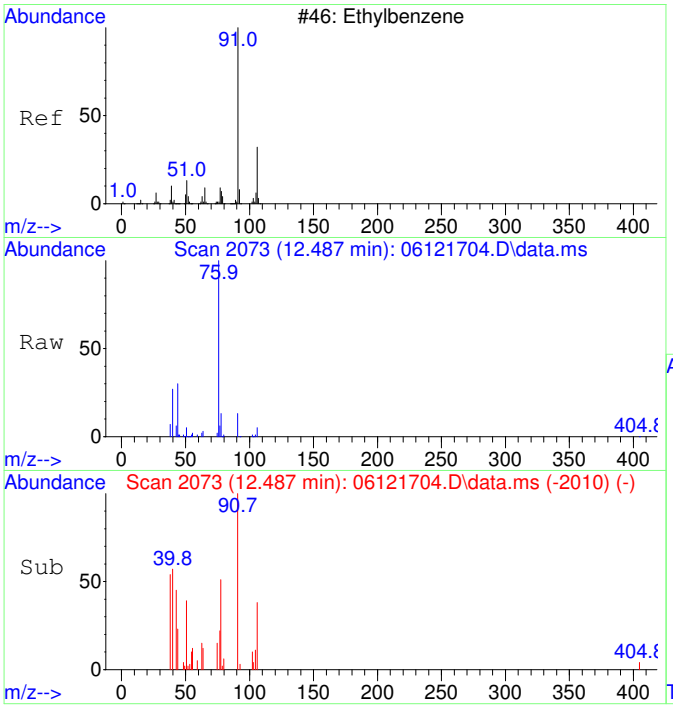


#40
Chlorobenzene SCAN
Concen: 65.80 ug/L
RT: 12.288 min Scan# 2048
Delta R.T. 0.008 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:112 Resp: 3571

Ion	Ratio	Lower	Upper
112	100		
77	118.6	35.1	95.1#
114	17.5	2.6	62.6
51	14.6	3.7	63.7

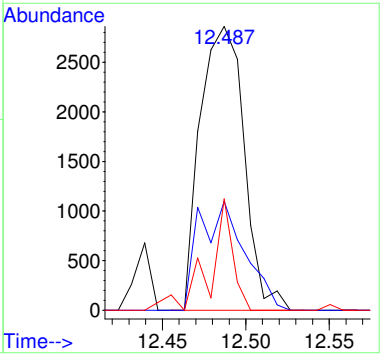


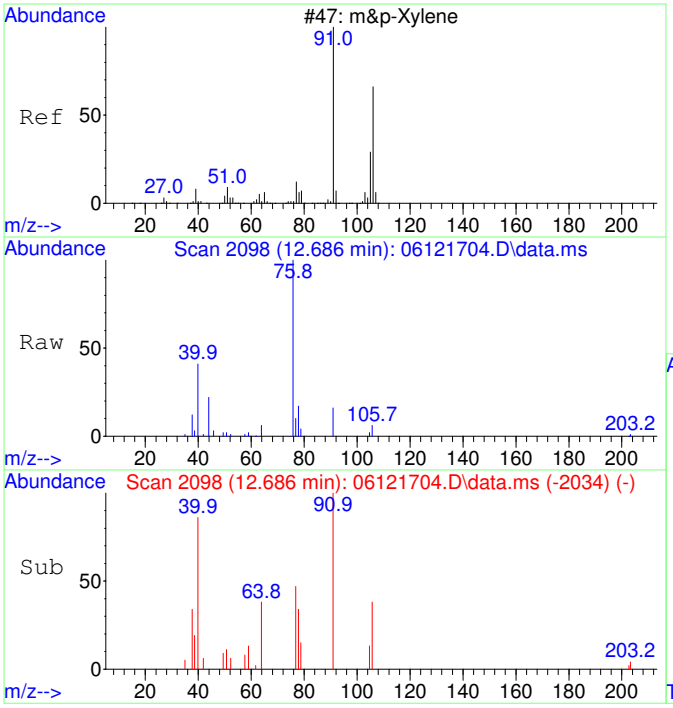


#42
Ethylbenzene SCAN
Concen: 52.95 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 5238

Ion	Ratio	Lower	Upper
91	100		
106	39.9	0.0	59.8
51	20.9	0.0	45.5

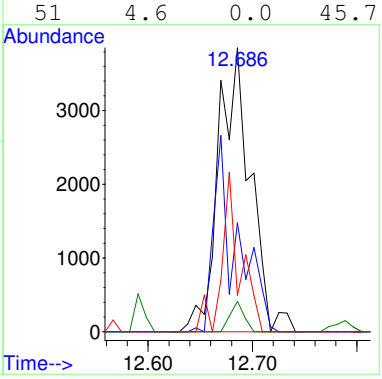


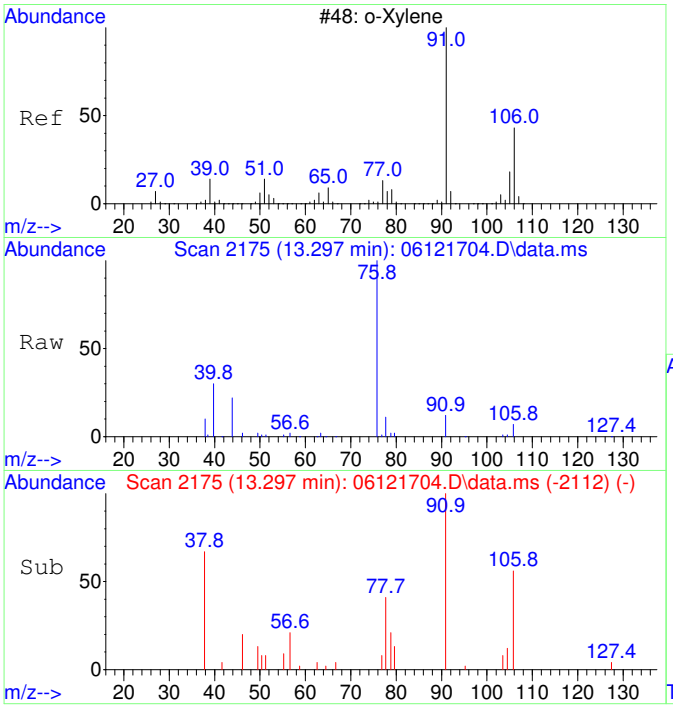


#43
m&p-Xylene SCAN
Concen: 53.25 ug/L
RT: 12.686 min Scan# 2098
Delta R.T. 0.008 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 8225

Ion	Ratio	Lower	Upper
91	100		
106	49.6	18.5	78.5
105	31.2	0.0	51.3
51	4.6	0.0	45.7

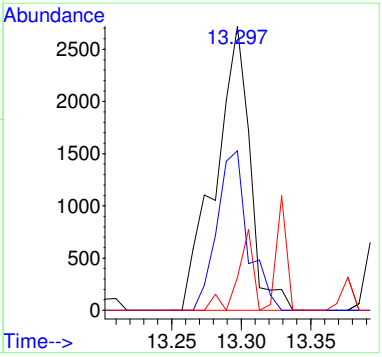


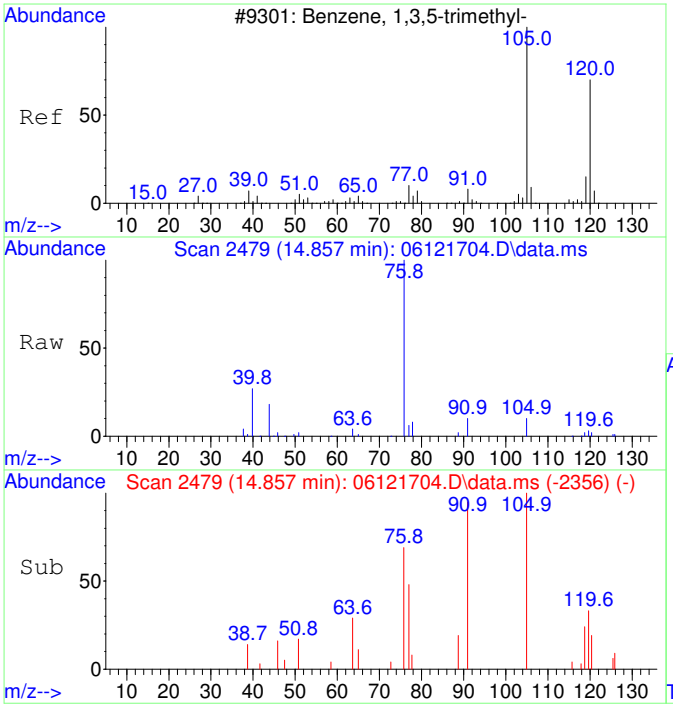


#44
o-Xylene SCAN
Concen: 58.77 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 4674

Ion	Ratio	Lower	Upper
91	100		
106	50.9	15.5	75.5
105	12.6	0.0	54.1

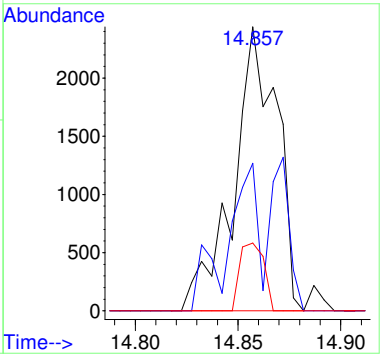


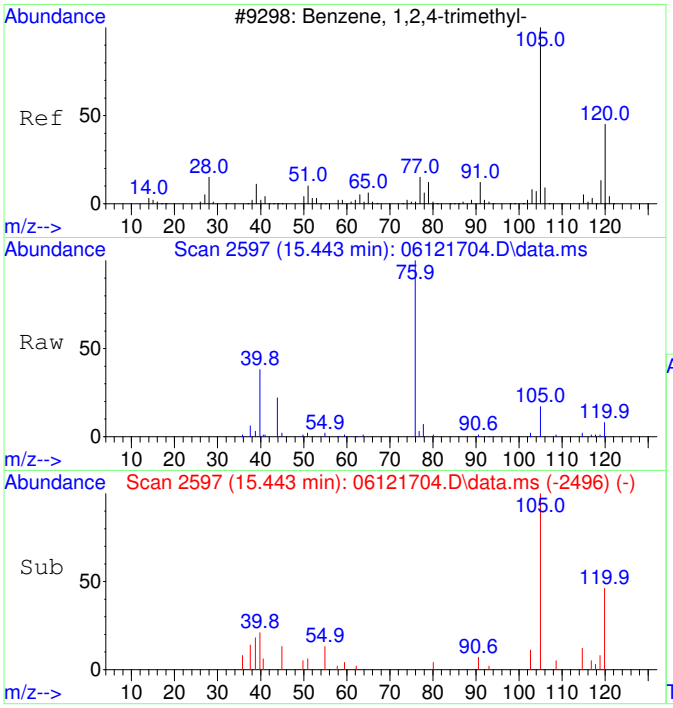


#46
1,3,5-Trimethylbenzene SCAN
Concen: 47.58 ug/L
RT: 14.857 min Scan# 2479
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 3590

Ion	Ratio	Lower	Upper
105	100		
120	31.8	17.3	77.3
119	13.3	0.0	42.7

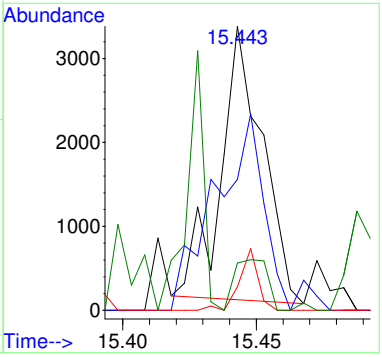


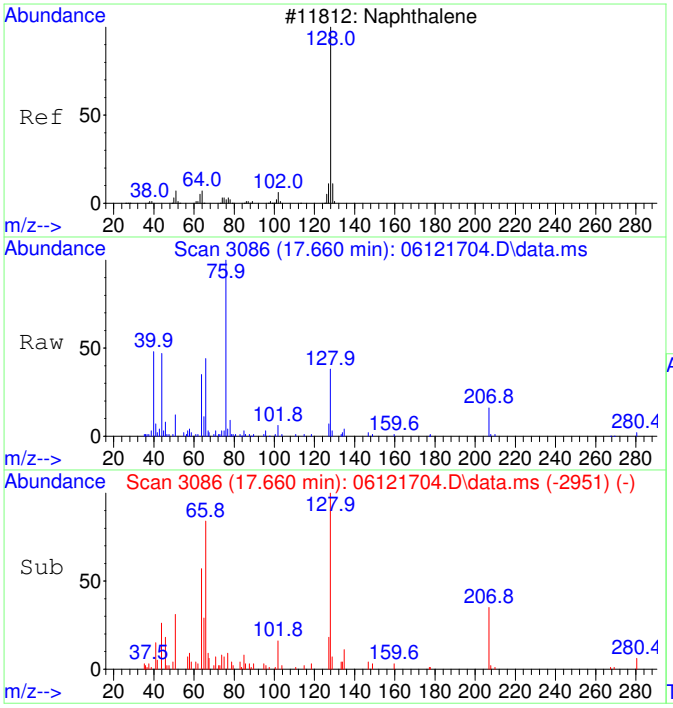


#47
1,2,4-Trimethylbenzene SCAN
Concen: 45.09 ug/L
RT: 15.443 min Scan# 2597
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 3545

Ion	Ratio	Lower	Upper
105	100		
120	83.5	12.9	72.9#
119	9.9	0.0	40.5
77	14.7	0.0	43.3

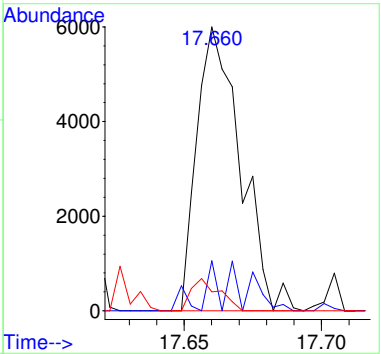




#48
Naphthalene SCAN
Concen: 61.07 ug/L
RT: 17.660 min Scan# 3086
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:128 Resp: 6622

Ion	Ratio	Lower	Upper
128	100		
127	3.5	0.0	43.9
129	7.3	0.0	41.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121704.D
Acq On : 12 Jun 2017 12:43
InstName : AG5975C
Operator : RH
Sample : S17F044-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

M.I. Performed By:
RH at 11:00 am, Jun 13, 2017

M.I. Approved By:
ZR at 11:58 am, Jun 14, 2017

Quant Time: Jun 12 13:02:30 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

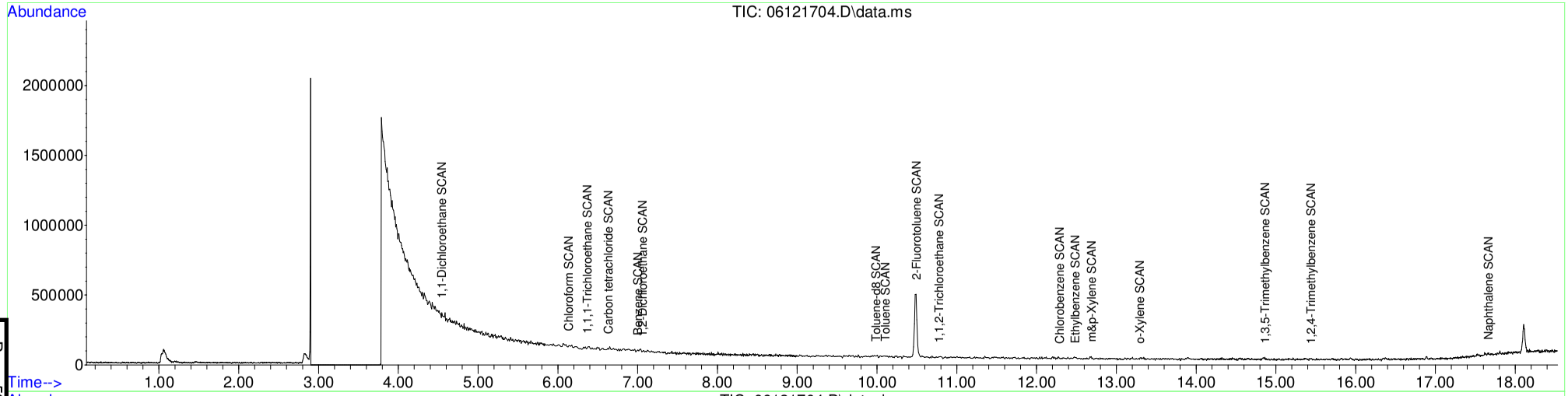
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.480	109	661990	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	9.987	98	5619	51.83	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 1.04%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	2.714	61	2936m	56.24	ug/L	
3] trans-1,2-Dichloroethene	3.849	61	3275	57.88	ug/L	88
4] 1,1-Dichloroethane	4.539	63	3443	56.45	ug/L	99
5] cis-1,2-Dichloroethene	5.554	61	3178	54.51	ug/L	99
6] Chloroform	6.139	83	3314	58.74	ug/L	99
7] 1,1,1-Trichloroethane	6.370	97	2769	53.44	ug/L	98
8] Carbon tetrachloride	6.626	117	2328	52.08	ug/L	98
9] Benzene	6.979	78	10319	78.54	ug/L	93
10] 1,2-Dichloroethane	7.052	62	2628	53.99	ug/L	97
11] Trichloroethene	8.058	130	1768	52.32	ug/L	99
13] Toluene	10.092	91	8497	59.18	ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	1604	52.25	ug/L	97
15] Tetrachloroethene	10.921	166	1910	51.91	ug/L	99
16] Chlorobenzene	12.274	112	4717	51.73	ug/L	94
17] 1,1,1,2-Tetrachloroethane	12.433	131	1457	48.68	ug/L	98
18] Ethylbenzene	12.480	91	7825	50.64	ug/L	96
19] m&p-Xylene	12.679	91	12097	99.80	ug/L	97
20] o-Xylene	13.291	91	6356	50.70	ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.429	83	2605	48.86	ug/L	97
22] 1,3,5-Trimethylbenzene	14.853	105	5941	48.00	ug/L	99
23] 1,2,4-Trimethylbenzene	15.439	105	6120	48.23	ug/L	99
24] Naphthalene	17.661	128	10001	53.22	ug/L	99
25) 2-Fluorotoluene SCAN	10.490	109	381310	4750.83	ug/L	95
28) 1,1-Dichloroethane SCAN	4.545	63	1455	35.41	ug/L #	25
30) Chloroform SCAN	6.138	83	3340	89.09	ug/L	90
31) 1,1,1-Trichloroethane ...	6.369	97	1570	50.89	ug/L #	18
32) Carbon tetrachloride SCAN	6.625	117	1665	58.62	ug/L #	39
33) Benzene SCAN	7.002	78	15596	183.55	ug/L #	67
34) 1,2-Dichloroethane SCAN	7.063	62	1715	46.78	ug/L #	43
36) Toluene-d8 SCAN	9.986	98	4833	72.96	ug/L	85
37) Toluene SCAN	10.101	91	8452	95.67	ug/L	73
38) 1,1,2-Trichloroethane ...	10.773	97	1657	83.28	ug/L #	56
40) Chlorobenzene SCAN	12.288	112	3571	65.80	ug/L #	51
42) Ethylbenzene SCAN	12.487	91	5238	52.95	ug/L	83
43) m&p-Xylene SCAN	12.686	91	8225	53.25	ug/L	89
44) o-Xylene SCAN	13.297	91	4674	58.77	ug/L	87
46) 1,3,5-Trimethylbenzene...	14.857	105	3590	47.58	ug/L	81
47) 1,2,4-Trimethylbenzene...	15.443	105	3545	45.09	ug/L #	58
48) Naphthalene SCAN	17.660	128	6622	61.07	ug/L	81

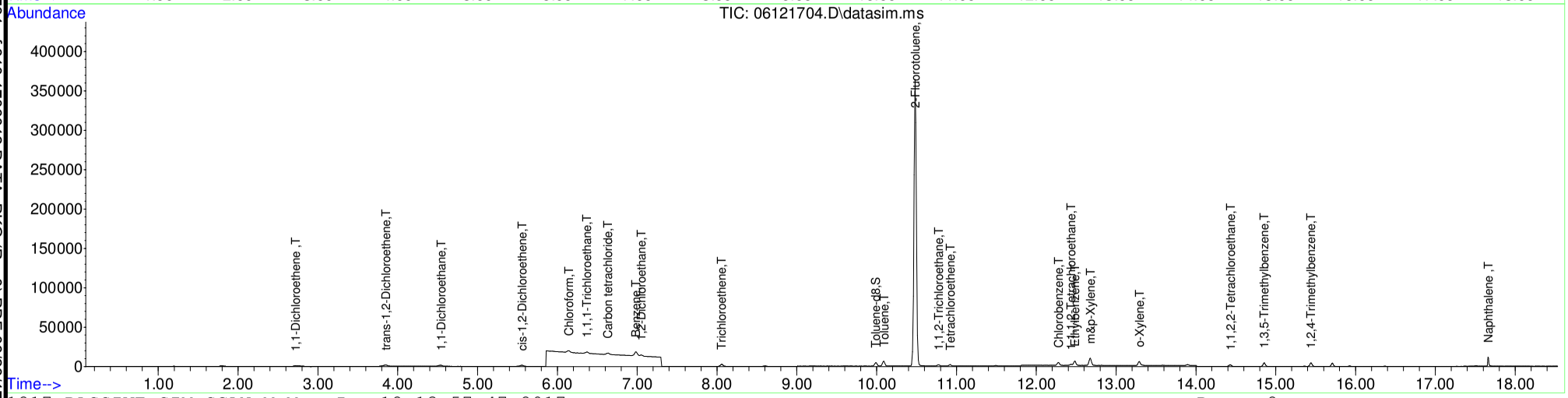
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121704.D
Acq On : 12 Jun 2017 12:43
InstName : AG5975C
Operator : RH
Sample : S17F044-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 12 13:02:30 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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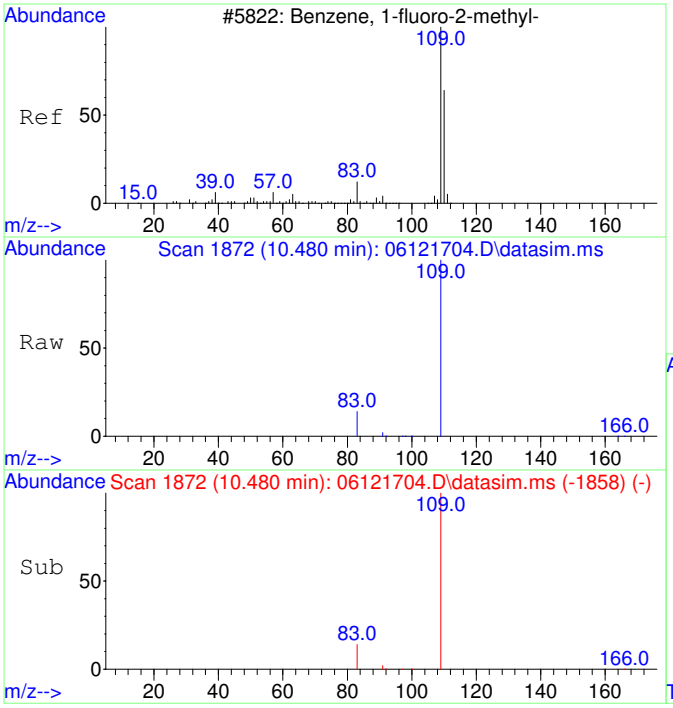
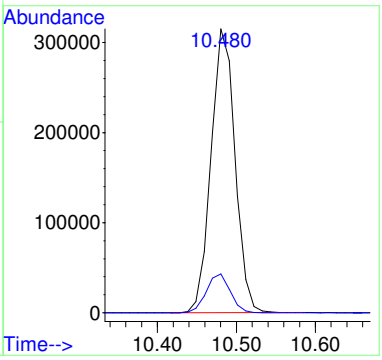
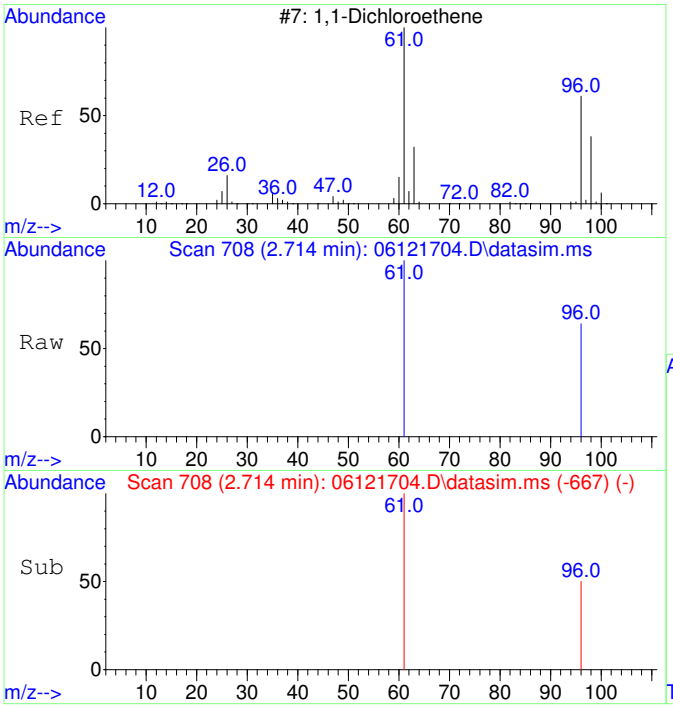


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:109 Resp: 661990

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.4

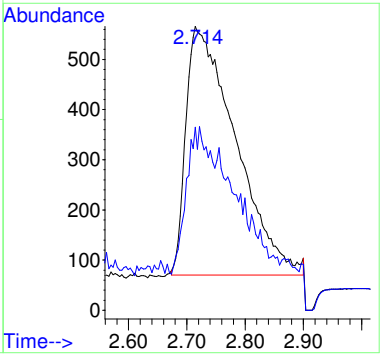


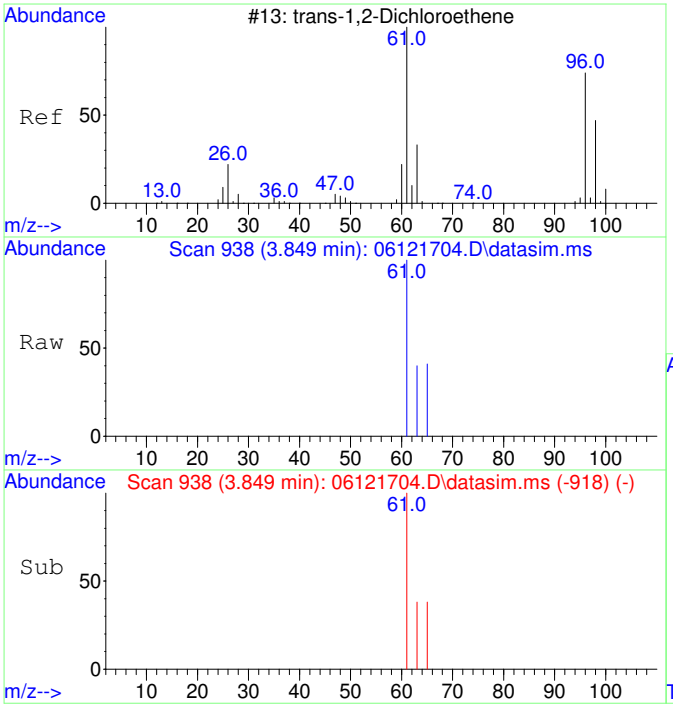


#2
1,1-Dichloroethene
Concen: 56.24 ug/L m
RT: 2.714 min Scan# 708
Delta R.T. 0.004 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 61 Resp: 2936

Ion	Ratio	Lower	Upper
61	100		
96	73.7	21.8	81.8

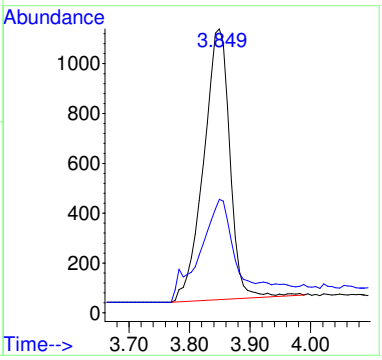


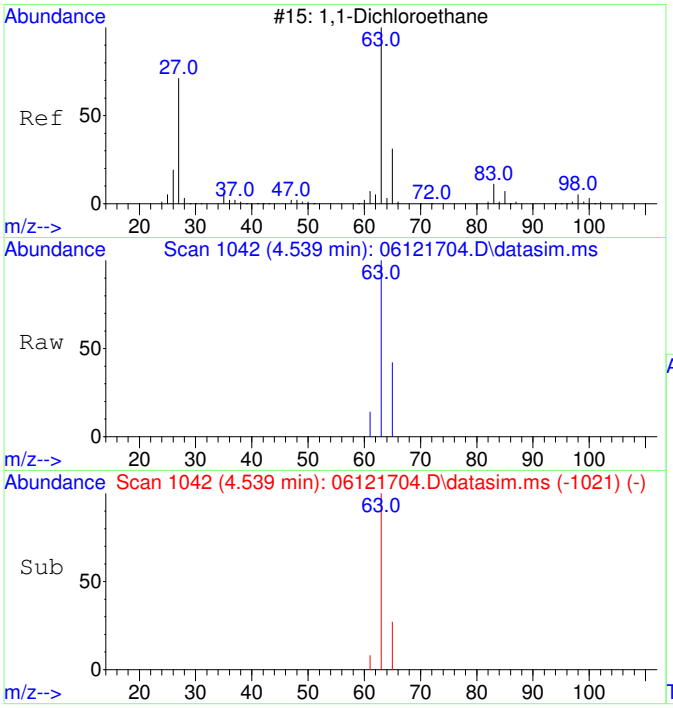


#3
trans-1,2-Dichloroethene
Concen: 57.88 ug/L
RT: 3.849 min Scan# 938
Delta R.T. -0.020 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 61 Resp: 3275

Ion	Ratio	Lower	Upper
61	100		
63	24.2	1.0	61.0

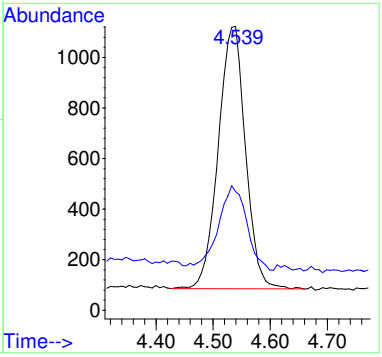


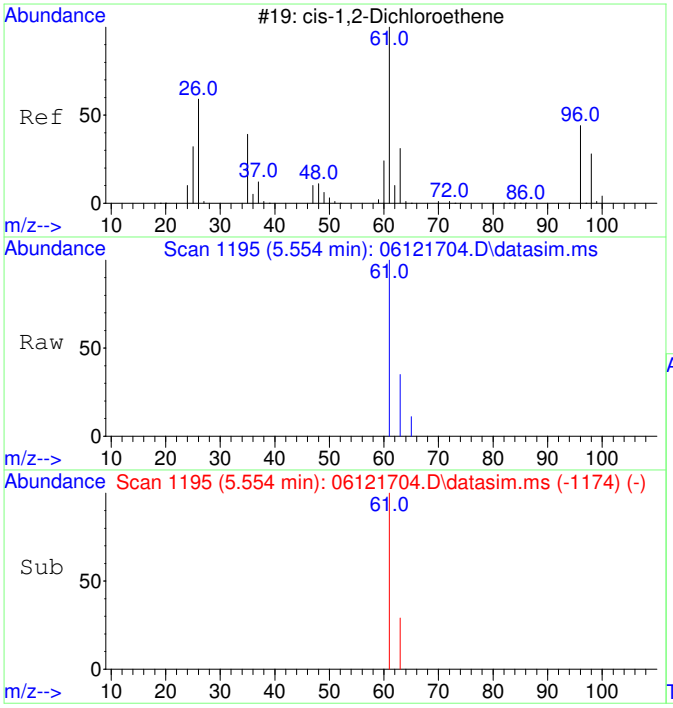


#4
1,1-Dichloroethane
Concen: 56.45 ug/L
RT: 4.539 min Scan# 1042
Delta R.T. -0.013 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 63 Resp: 3443

Ion	Ratio	Lower	Upper
63	100		
65	31.0	0.4	60.4

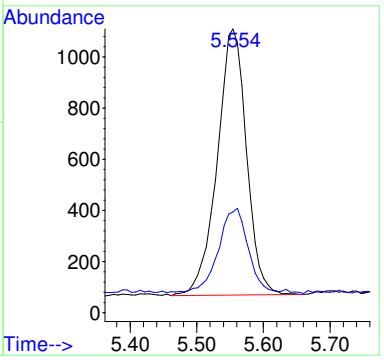


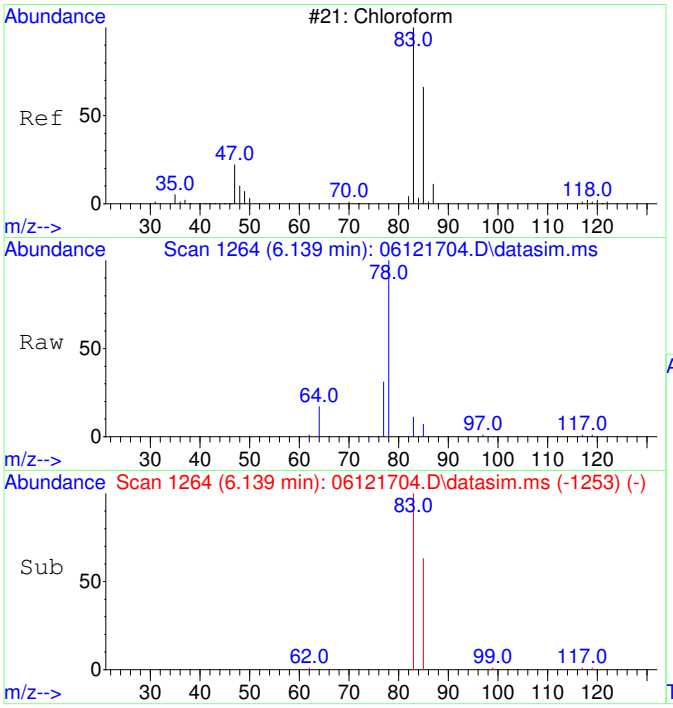


#5
cis-1,2-Dichloroethene
Concen: 54.51 ug/L
RT: 5.554 min Scan# 1195
Delta R.T. -0.013 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 61 Resp: 3178

Ion	Ratio	Lower	Upper
61	100		
63	31.5	0.9	60.9

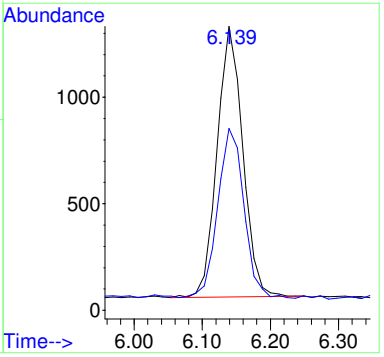


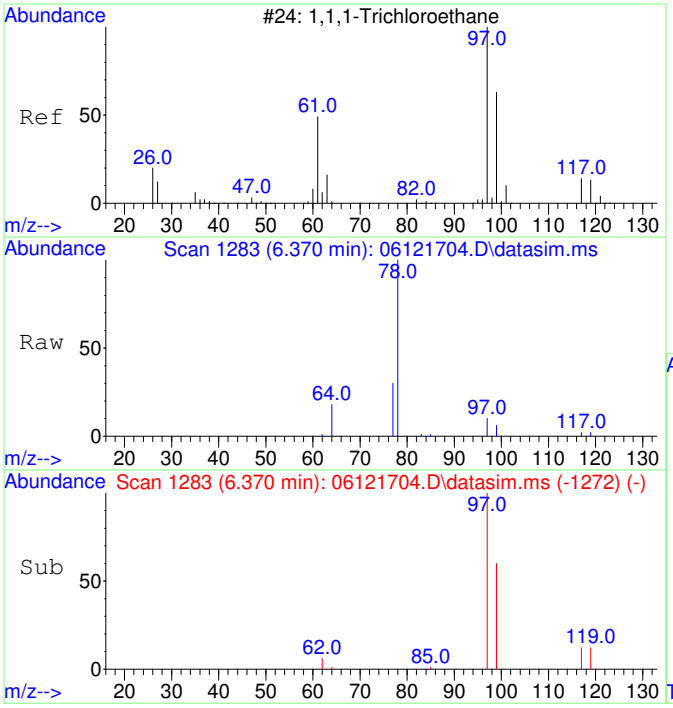


#6
Chloroform
Concen: 58.74 ug/L
RT: 6.139 min Scan# 1264
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 83 Resp: 3314

Ion	Ratio	Lower	Upper
83	100		
85	62.6	33.7	93.7

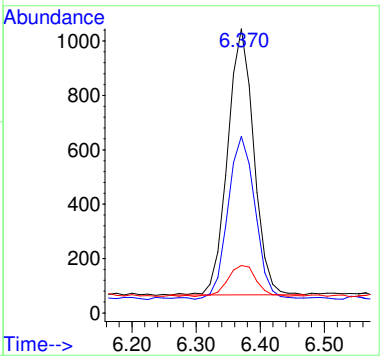


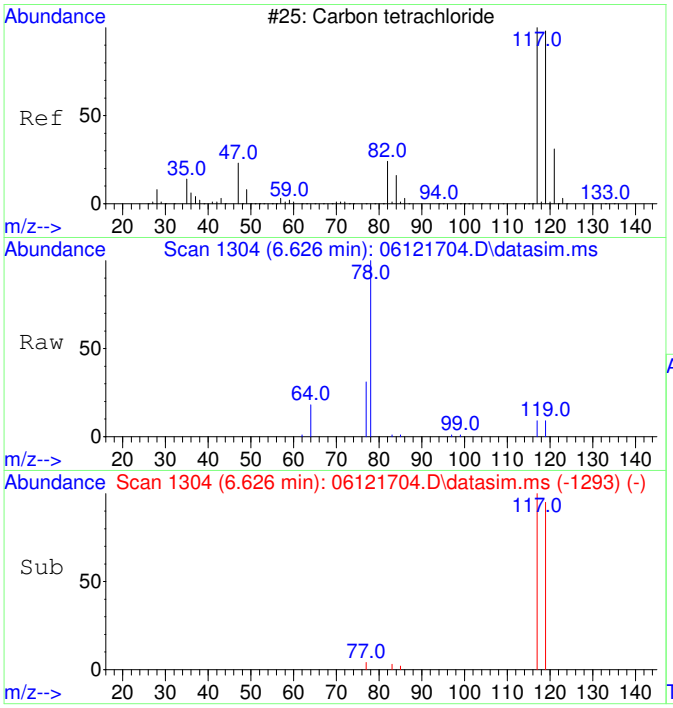


#7
1,1,1-Trichloroethane
Concen: 53.44 ug/L
RT: 6.370 min Scan# 1283
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 2769

Ion	Ratio	Lower	Upper
97	100		
99	63.0	34.3	94.3
117	12.6	0.0	42.3

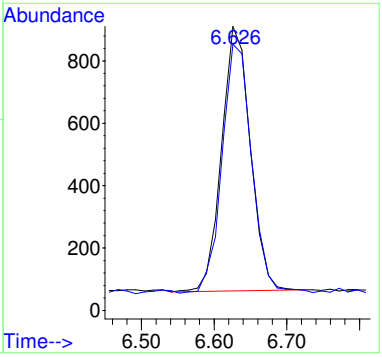


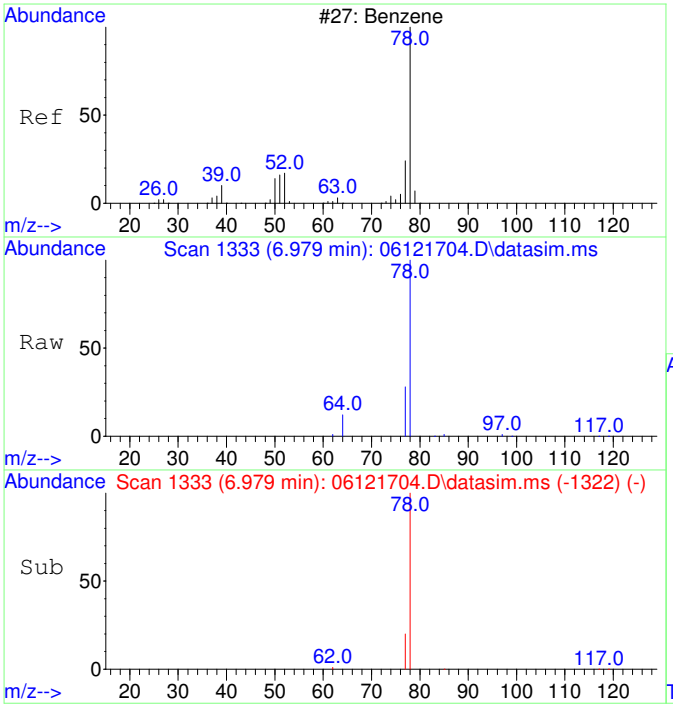


#8
Carbon tetrachloride
Concen: 52.08 ug/L
RT: 6.626 min Scan# 1304
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:117 Resp: 2328

Ion	Ratio	Lower	Upper
117	100		
119	97.3	65.5	125.5

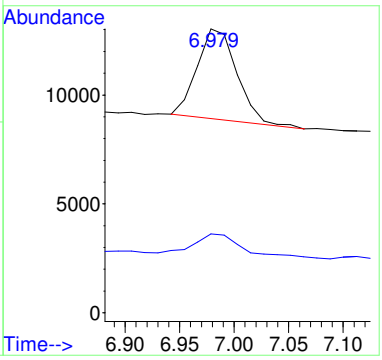


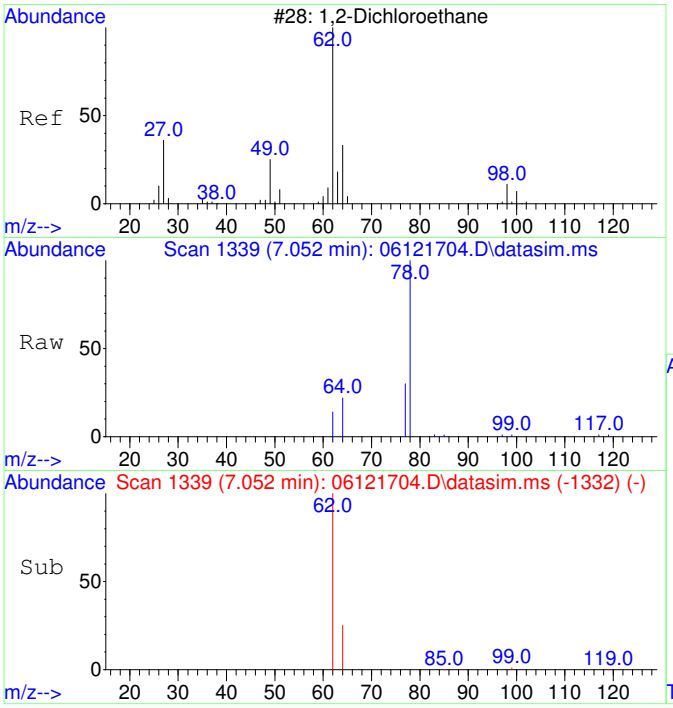


#9
Benzene
Concen: 78.54 ug/L
RT: 6.979 min Scan# 1333
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 78 Resp: 10319

Ion	Ratio	Lower	Upper
78	100		
77	26.3	0.0	53.0

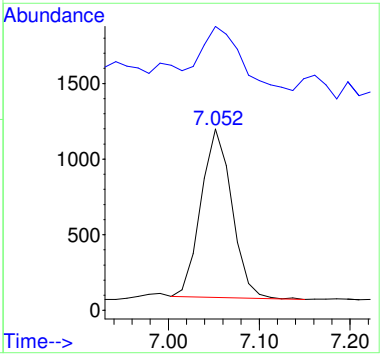


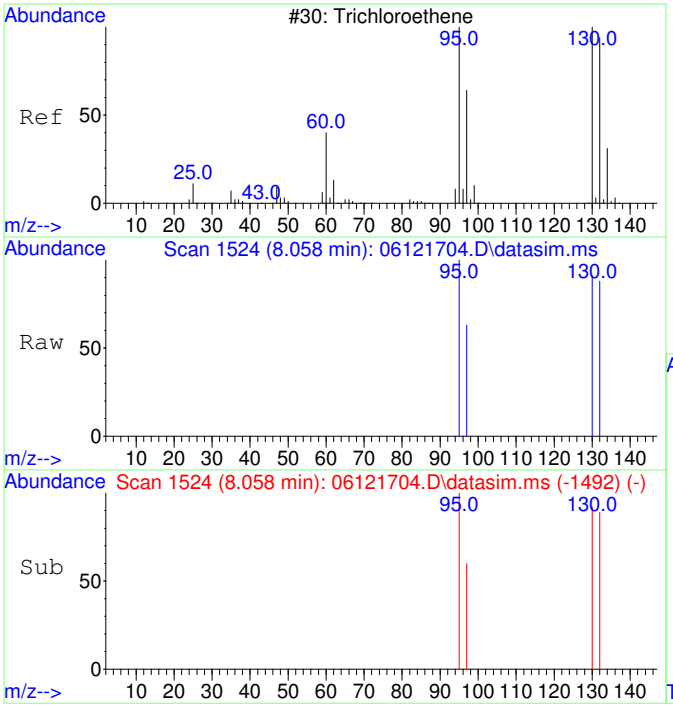


#10
1,2-Dichloroethane
Concen: 53.99 ug/L
RT: 7.052 min Scan# 1339
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 62 Resp: 2628

Ion	Ratio	Lower	Upper
62	100		
64	30.7	2.6	62.6

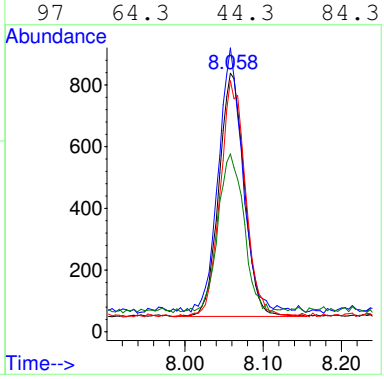


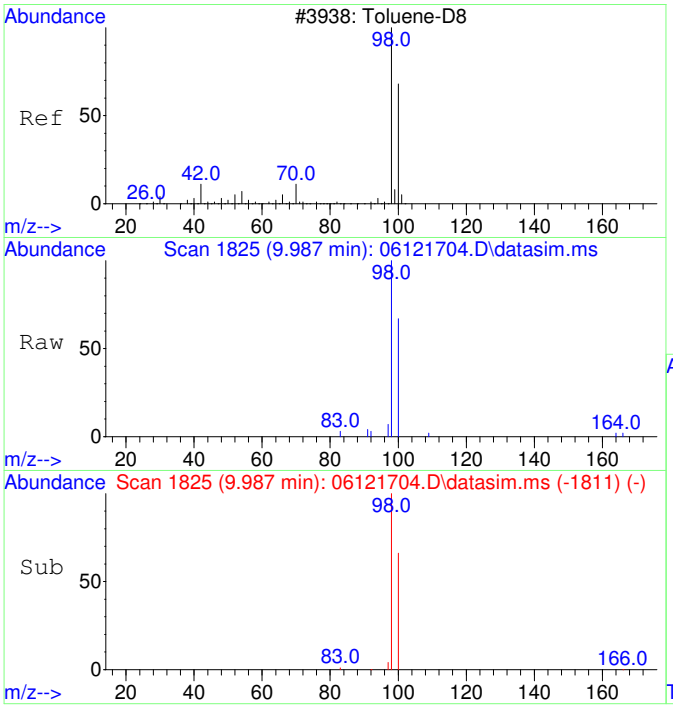


#11
Trichloroethene
Concen: 52.32 ug/L
RT: 8.058 min Scan# 1524
Delta R.T. -0.005 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:130 Resp: 1768

Ion	Ratio	Lower	Upper
130	100		
95	103.3	69.8	129.8
132	96.3	76.4	116.4
97	64.3	44.3	84.3

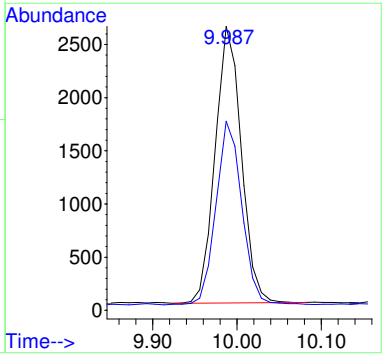


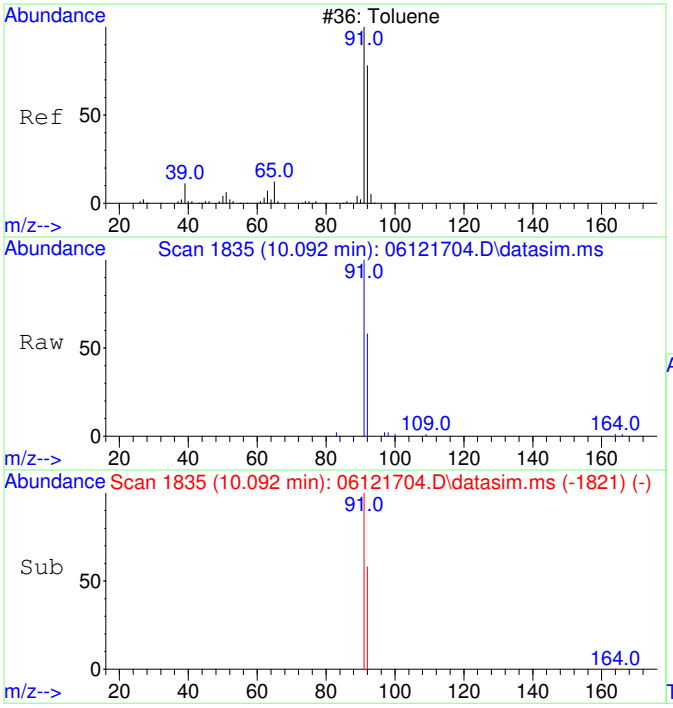


#12
Toluene-d8
Concen: 51.83 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 98 Resp: 5619

Ion	Ratio	Lower	Upper
98	100		
100	65.1	34.2	94.2

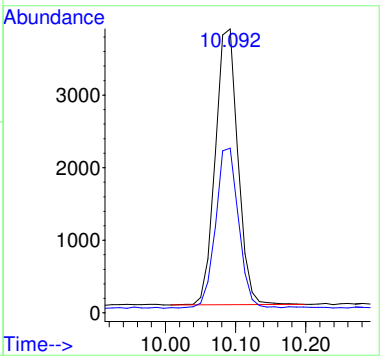


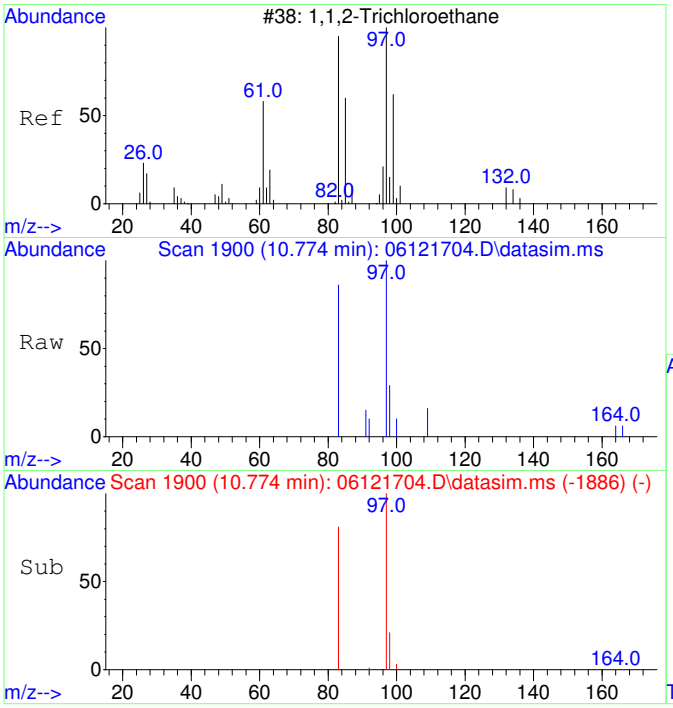


#13
Toluene
Concen: 59.18 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 8497

Ion	Ratio	Lower	Upper
91	100		
92	58.0	28.4	88.4

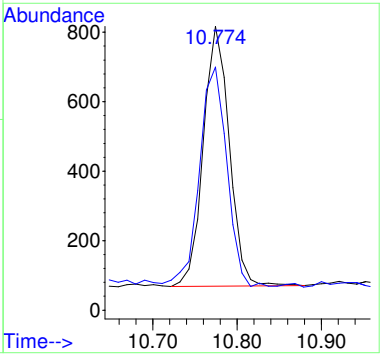


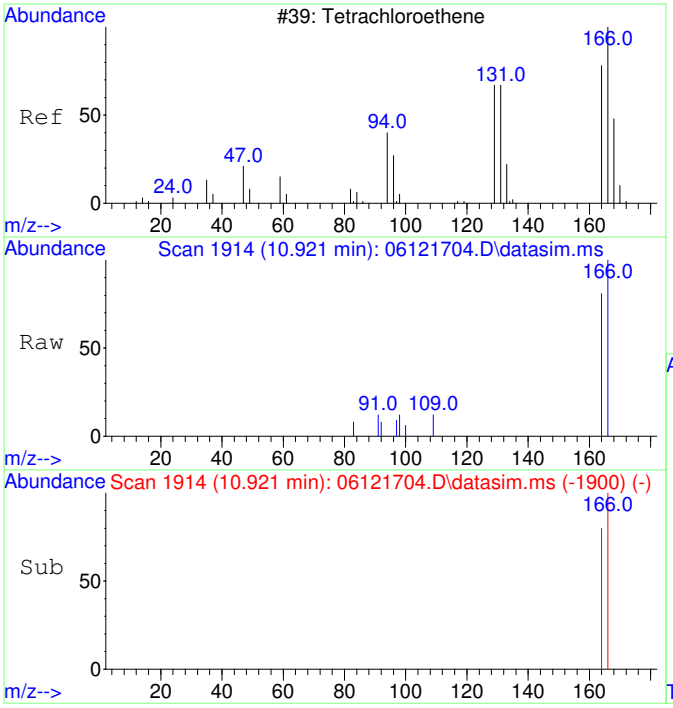


#14
1,1,2-Trichloroethane
Concen: 52.25 ug/L
RT: 10.774 min Scan# 1900
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 1604

Ion	Ratio	Lower	Upper
97	100		
83	87.1	54.5	114.5

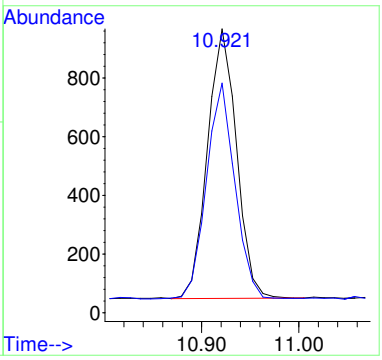


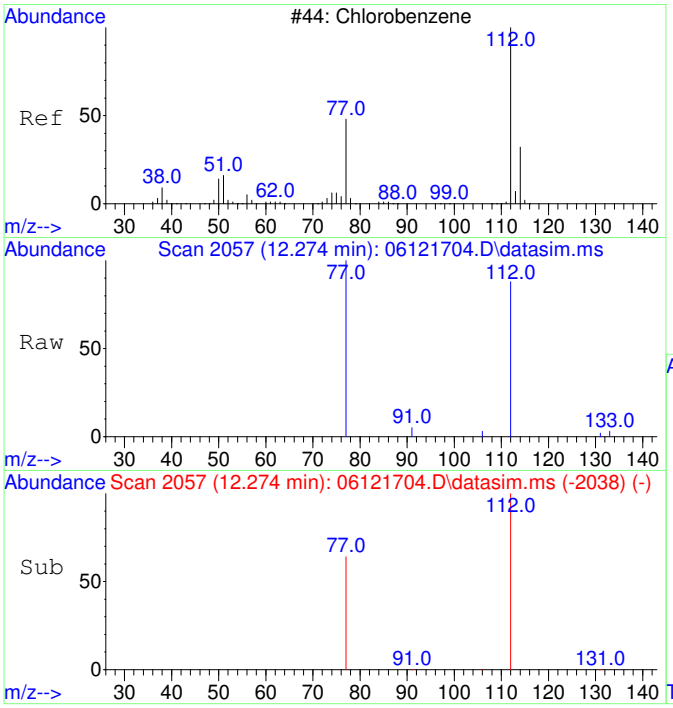


#15
Tetrachloroethene
Concen: 51.91 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:166 Resp: 1910

Ion	Ratio	Lower	Upper
166	100		
164	77.2	48.1	108.1

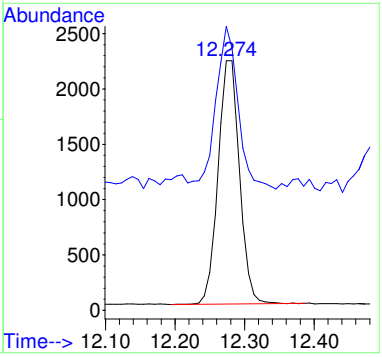


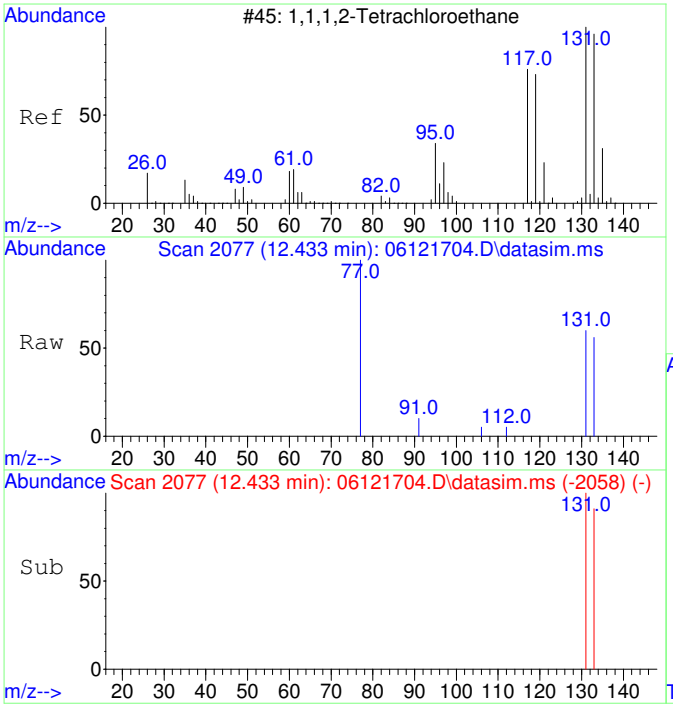


#16
Chlorobenzene
Concen: 51.73 ug/L
RT: 12.274 min Scan# 2057
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:112 Resp: 4717

Ion	Ratio	Lower	Upper
112	100		
77	63.2	28.9	88.9

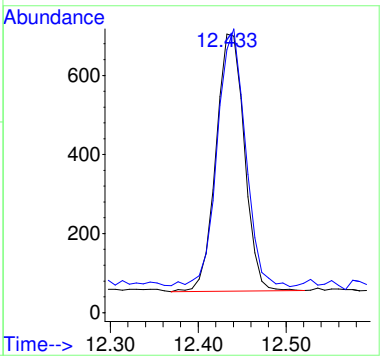


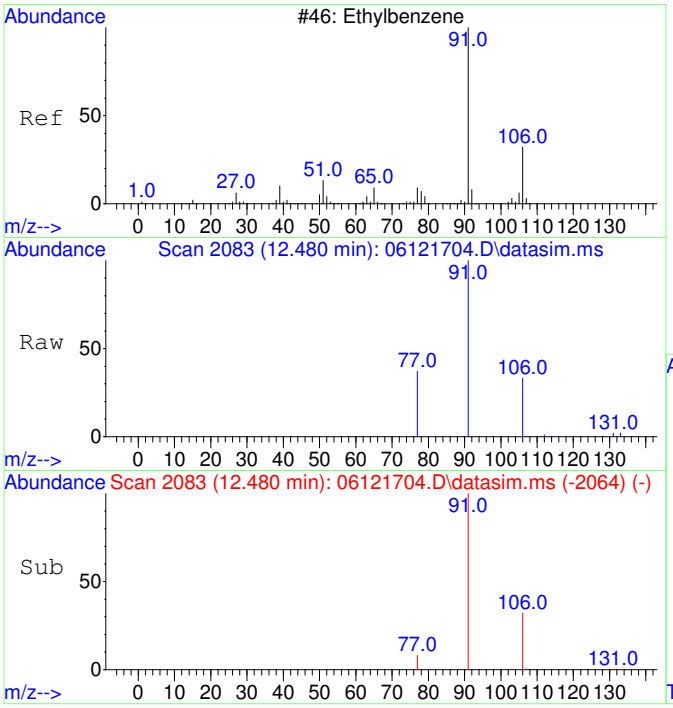


#17
1,1,1,2-Tetrachloroethane
Concen: 48.68 ug/L
RT: 12.433 min Scan# 2077
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:131 Resp: 1457

Ion	Ratio	Lower	Upper
131	100		
133	97.5	65.2	125.2

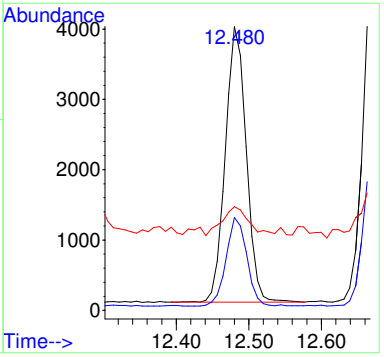


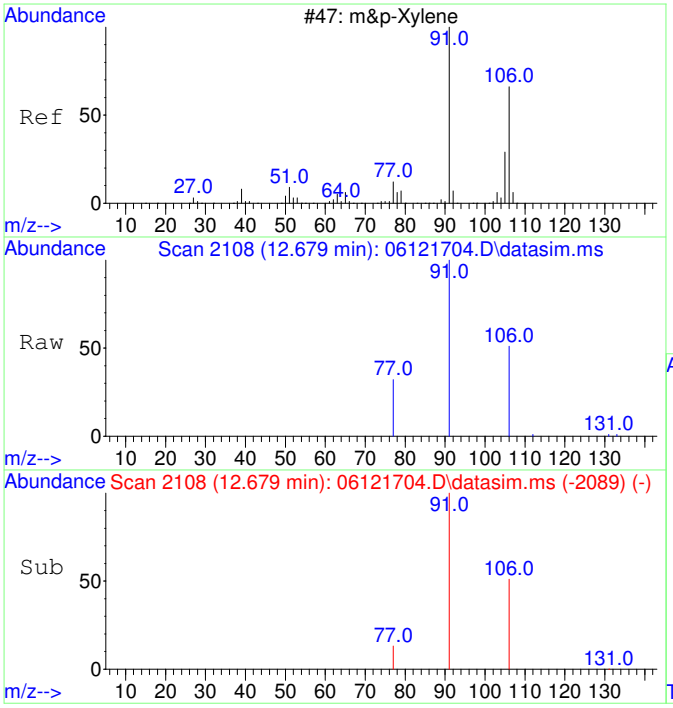


#18
Ethylbenzene
Concen: 50.64 ug/L
RT: 12.480 min Scan# 2083
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 7825

Ion	Ratio	Lower	Upper
91	100		
106	31.7	1.2	61.2
77	13.6	0.0	38.6

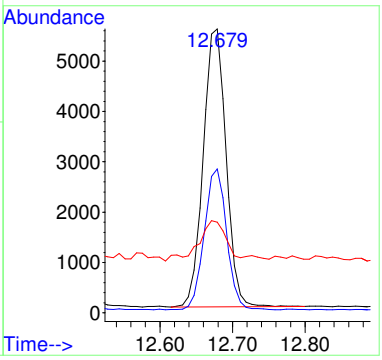


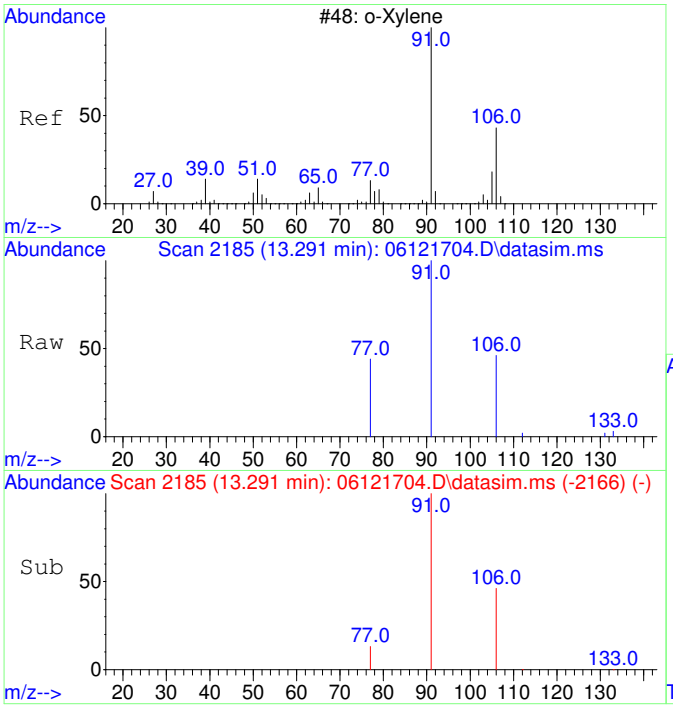


#19
m&p-Xylene
Concen: 99.80 ug/L
RT: 12.679 min Scan# 2108
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 12097

Ion	Ratio	Lower	Upper
91	100		
106	49.5	18.4	78.4
77	15.6	0.0	43.1

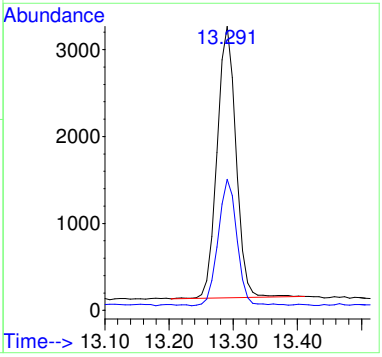


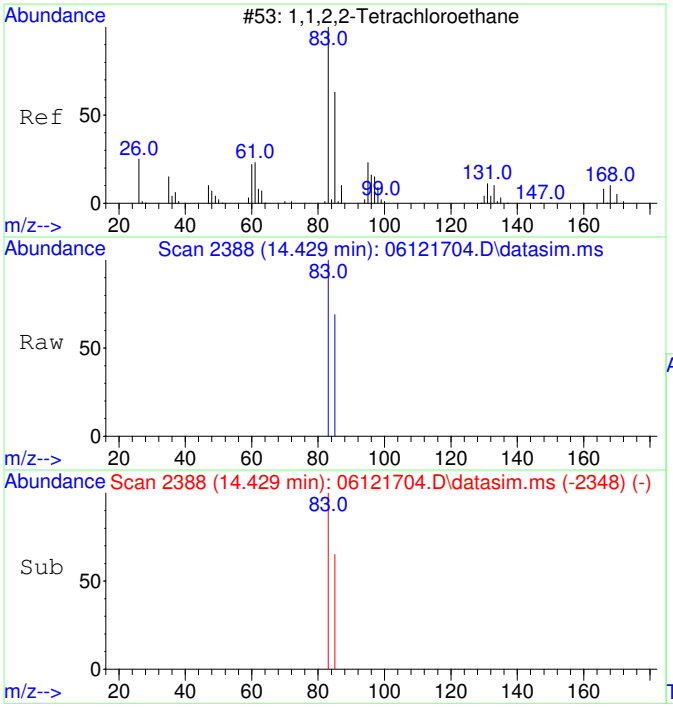


#20
o-Xylene
Concen: 50.70 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 6356

Ion	Ratio	Lower	Upper
91	100		
106	45.7	16.0	76.0

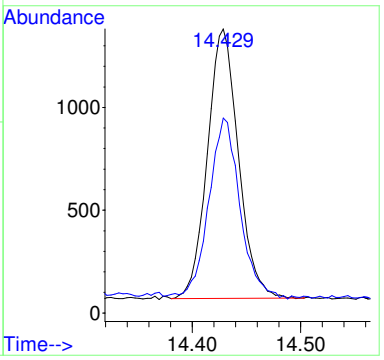


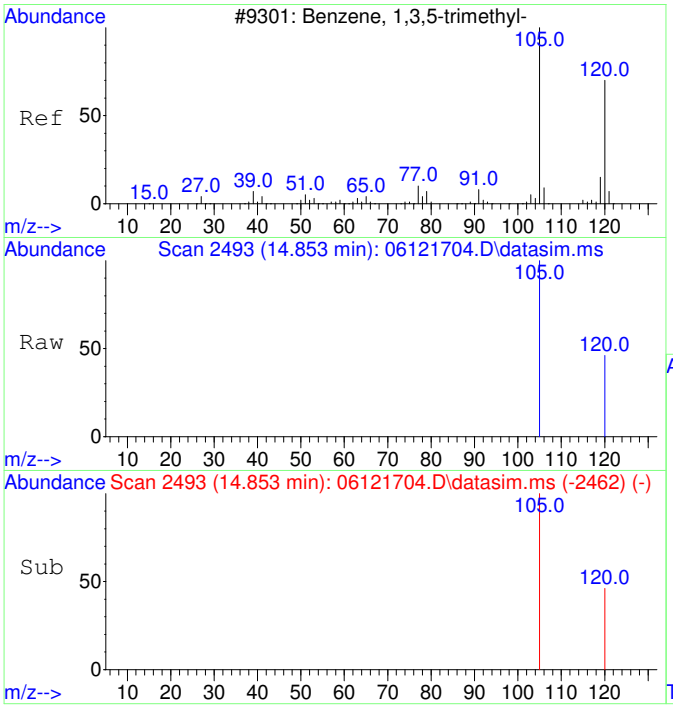


#21
1,1,2,2-Tetrachloroethane
Concen: 48.86 ug/L
RT: 14.429 min Scan# 2388
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 83 Resp: 2605

Ion	Ratio	Lower	Upper
83	100		
85	66.3	34.1	94.1

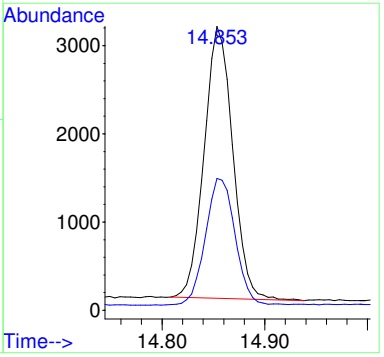


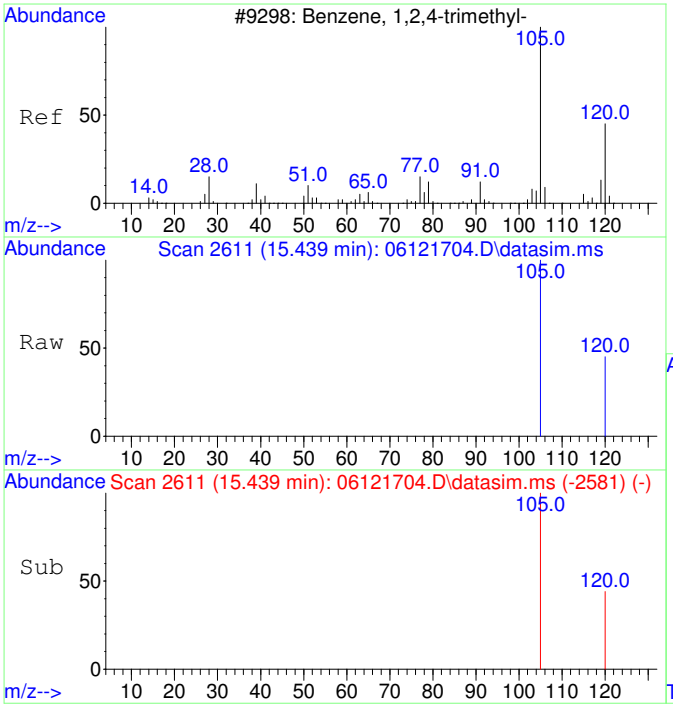


#22
1,3,5-Trimethylbenzene
Concen: 48.00 ug/L
RT: 14.853 min Scan# 2493
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 5941

Ion	Ratio	Lower	Upper
105	100		
120	48.6	18.0	78.0

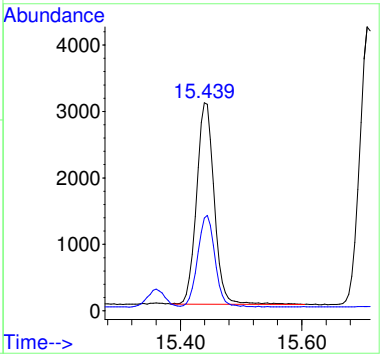


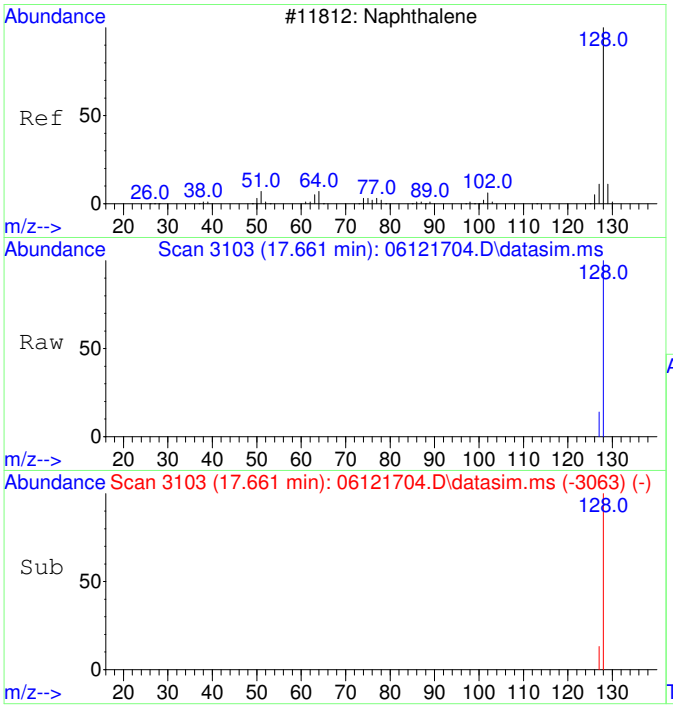


#23
1,2,4-Trimethylbenzene
Concen: 48.23 ug/L
RT: 15.439 min Scan# 2611
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 6120

Ion	Ratio	Lower	Upper
105	100		
120	43.8	14.4	74.4

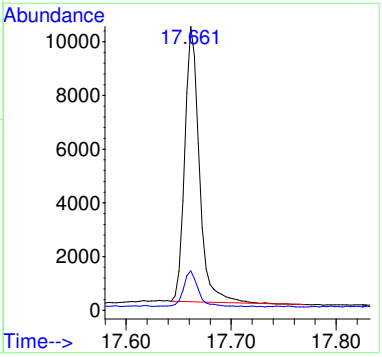


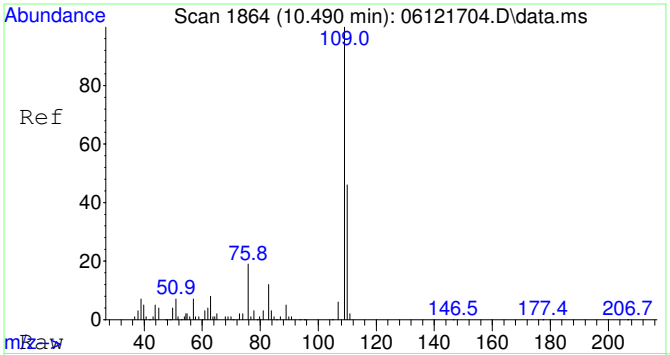


#24
Naphthalene
Concen: 53.22 ug/L
RT: 17.661 min Scan# 3103
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:128 Resp: 10001

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.7

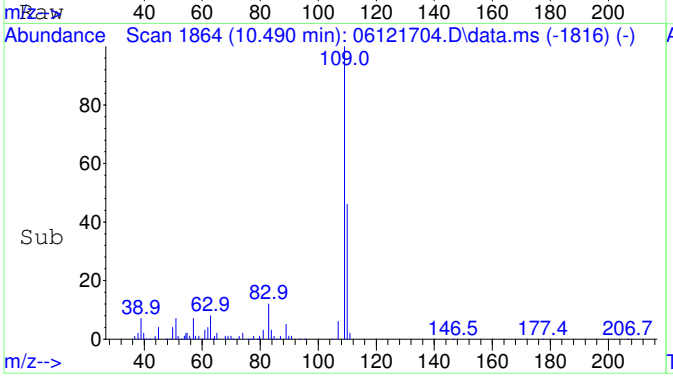


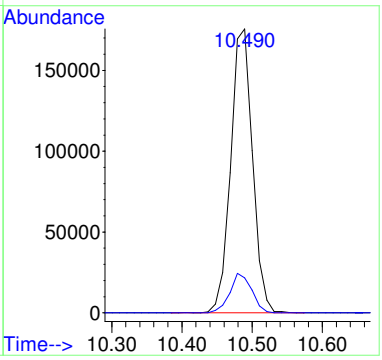


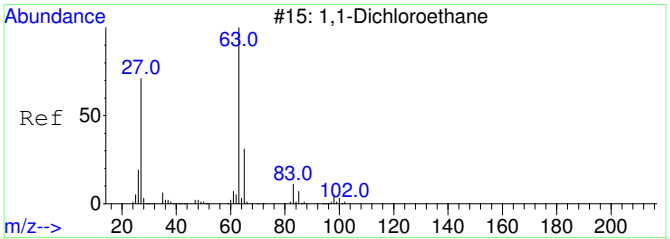
#25
2-Fluorotoluene SCAN
Concen: 4750.83 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:109 Resp: 381310

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	46.1



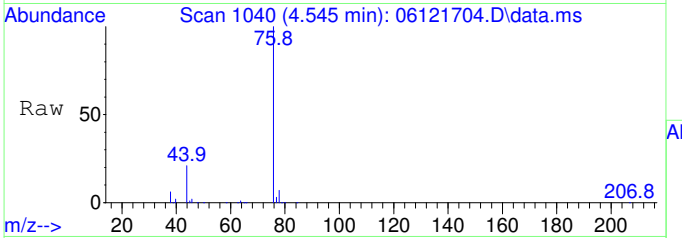


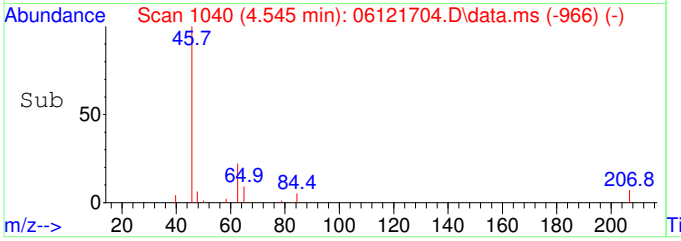


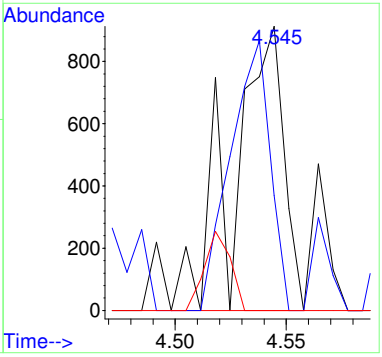
#28
1,1-Dichloroethane SCAN
Concen: 35.41 ug/L
RT: 4.545 min Scan# 1040
Delta R.T. -0.007 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

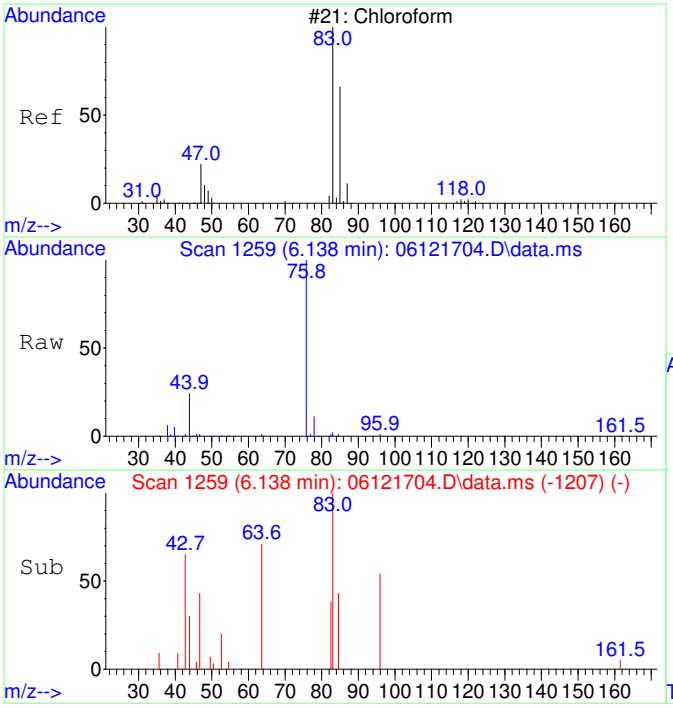
Tgt Ion: 63 Resp: 1455

Ion	Ratio	Lower	Upper
63	100		
65	74.5	1.1	61.1#
83	0.0	0.0	31.5





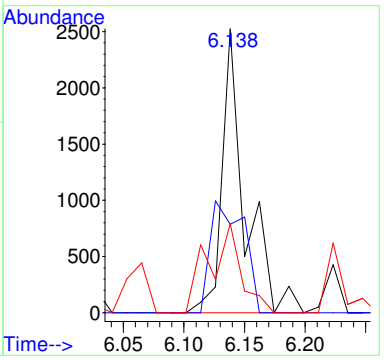


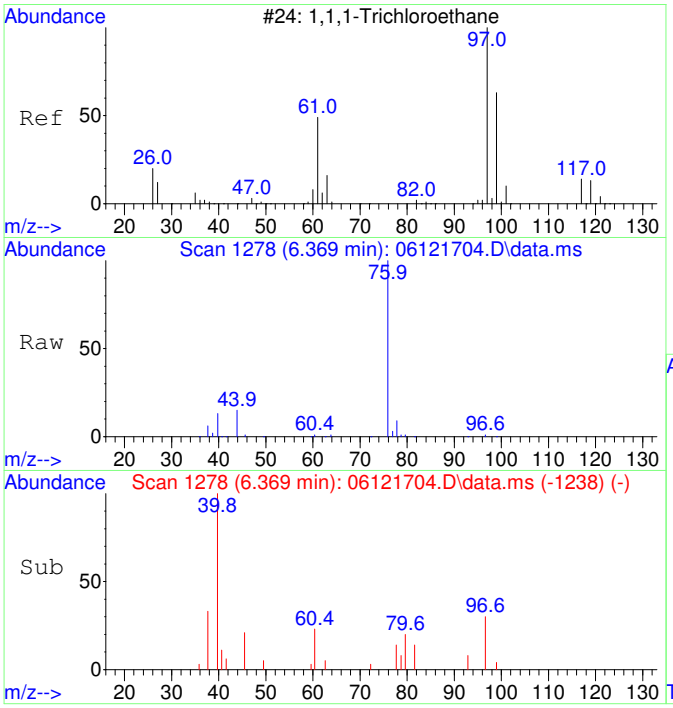


#30
Chloroform SCAN
Concen: 89.09 ug/L
RT: 6.138 min Scan# 1259
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 83 Resp: 3340

Ion	Ratio	Lower	Upper
83	100		
85	57.6	31.2	91.2
47	44.5	3.2	63.2

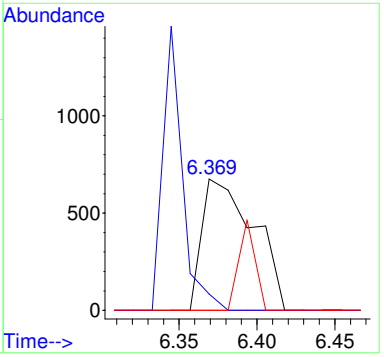


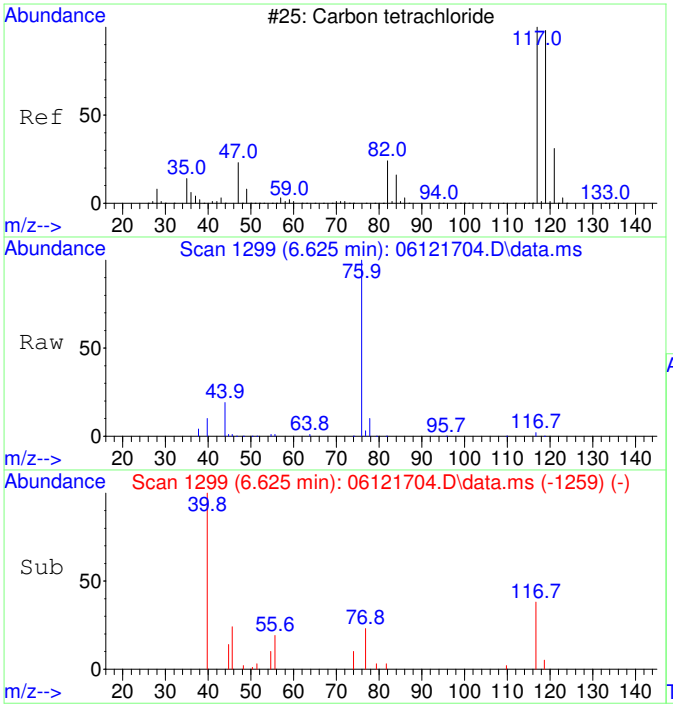


#31
1,1,1-Trichloroethane SCAN
Concen: 50.89 ug/L
RT: 6.369 min Scan# 1278
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 1570

Ion	Ratio	Lower	Upper
97	100		
99	0.0	38.7	98.7#
61	0.0	27.8	87.8#

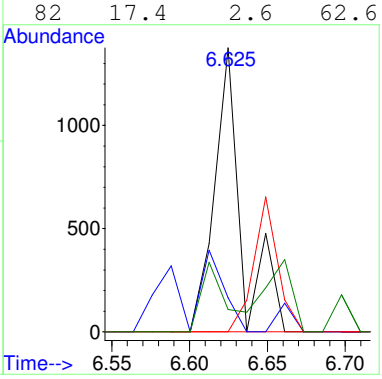


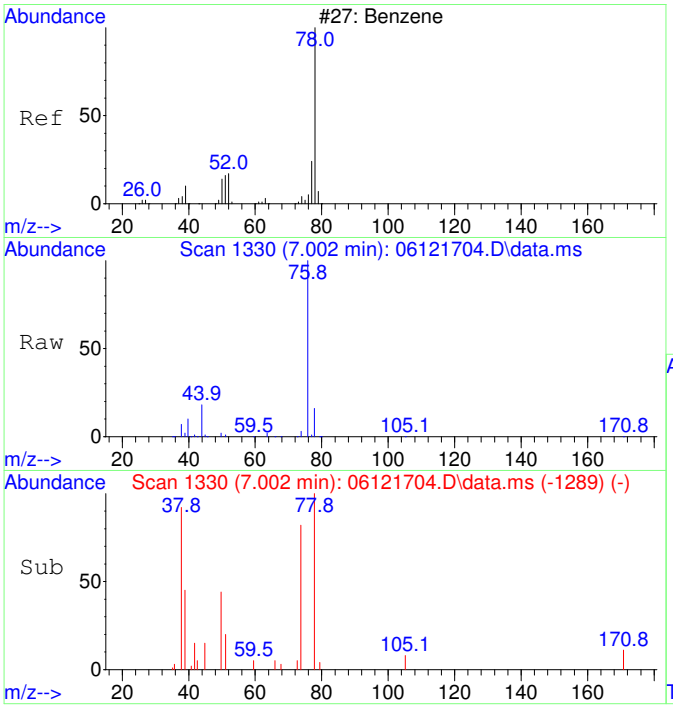


#32
Carbon tetrachloride SCAN
Concen: 58.62 ug/L
RT: 6.625 min Scan# 1299
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:117 Resp: 1665

Ion	Ratio	Lower	Upper
117	100		
119	24.6	66.8	126.8#
121	0.0	0.4	60.4#
82	17.4	2.6	62.6

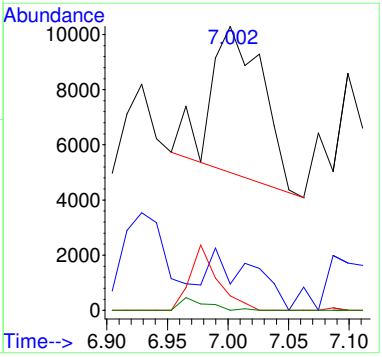


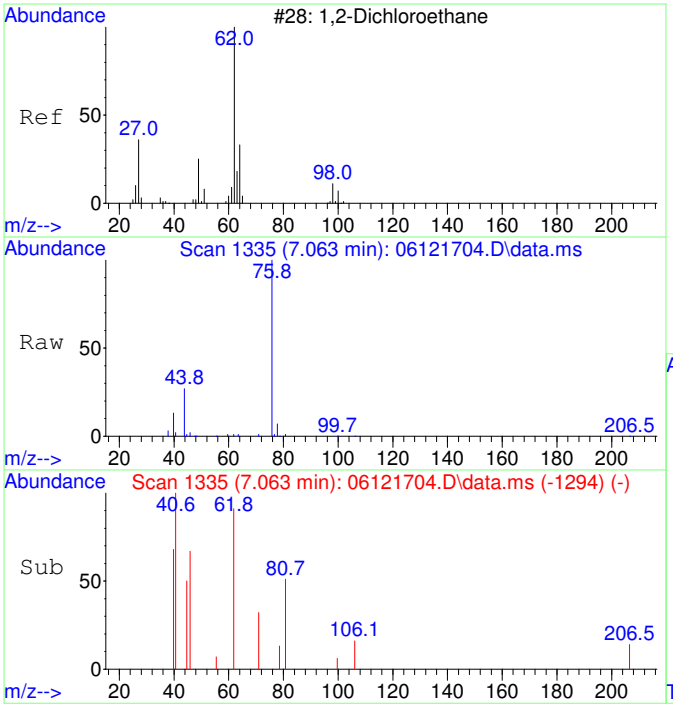


#33
Benzene SCAN
Concen: 183.55 ug/L
RT: 7.002 min Scan# 1330
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 78 Resp: 15596

Ion	Ratio	Lower	Upper
78	100		
77	21.8	0.0	55.2
51	0.0	0.0	52.4
52	0.0	0.0	53.3

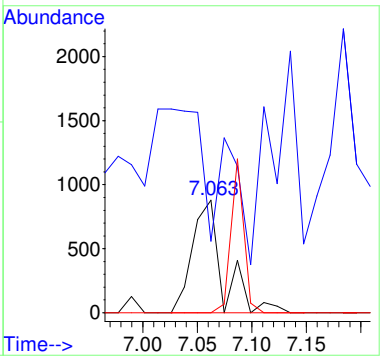


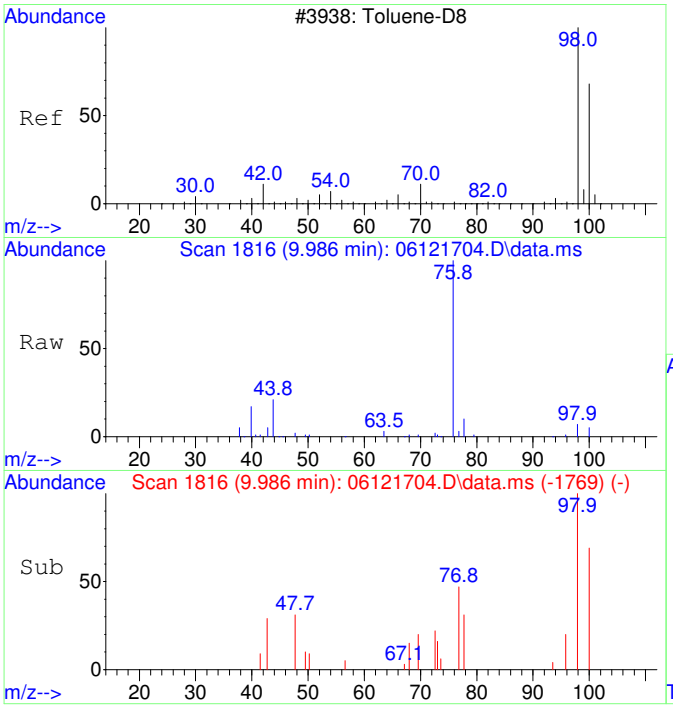


#34
1,2-Dichloroethane SCAN
Concen: 46.78 ug/L
RT: 7.063 min Scan# 1335
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 62 Resp: 1715

Ion	Ratio	Lower	Upper
62	100		
64	0.0	7.4	67.4#
49	0.0	0.0	54.8

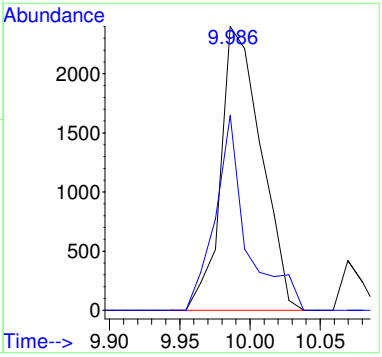


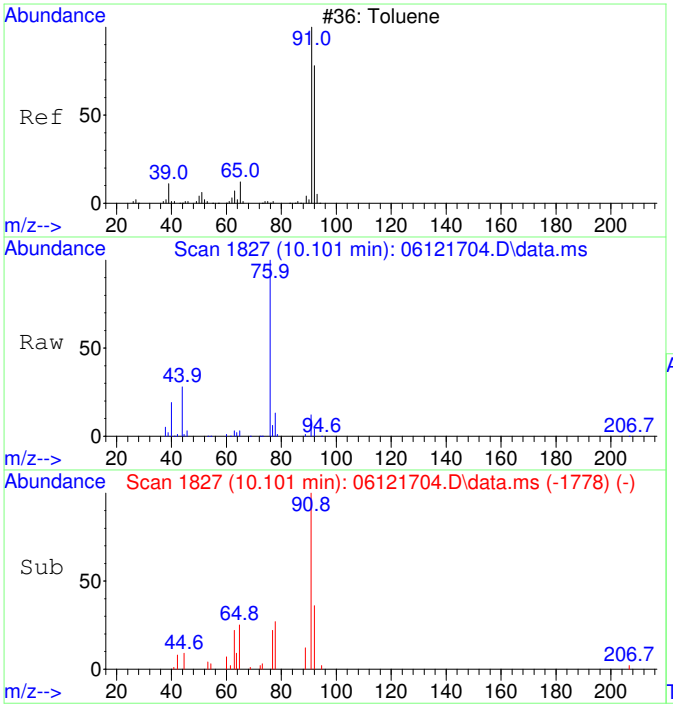


#36
Toluene-d8 SCAN
Concen: 72.96 ug/L
RT: 9.986 min Scan# 1816
Delta R.T. -0.011 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 98 Resp: 4833

Ion	Ratio	Lower	Upper
98	100		
100	54.3	36.2	96.2

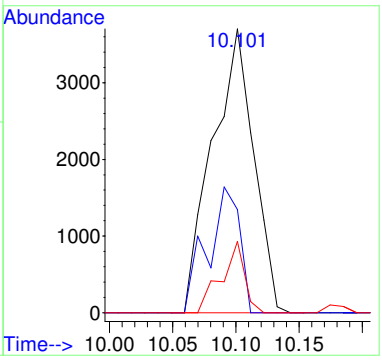


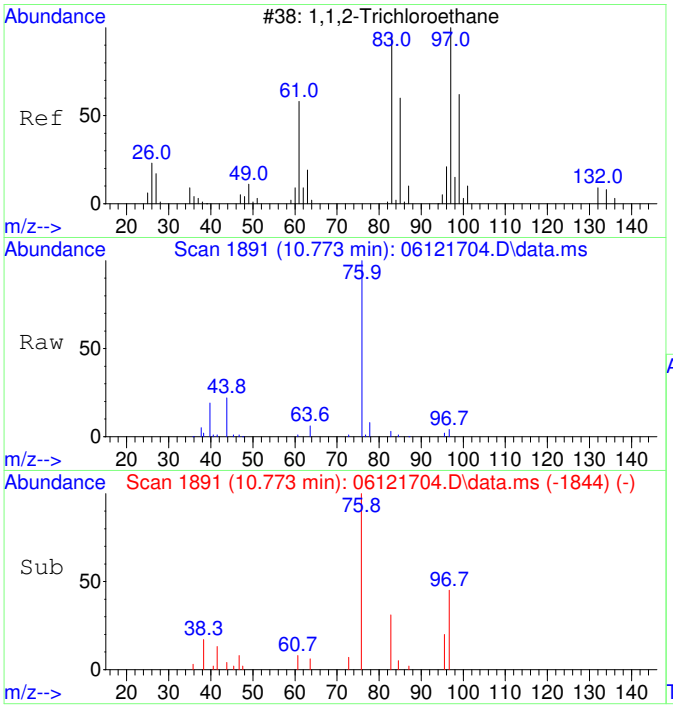


#37
Toluene SCAN
Concen: 95.67 ug/L
RT: 10.101 min Scan# 1827
Delta R.T. 0.010 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 8452

Ion	Ratio	Lower	Upper
91	100		
92	34.1	29.2	89.2
65	14.2	0.0	44.3

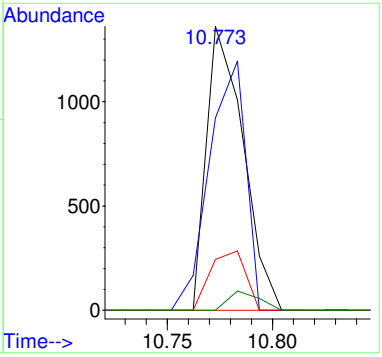


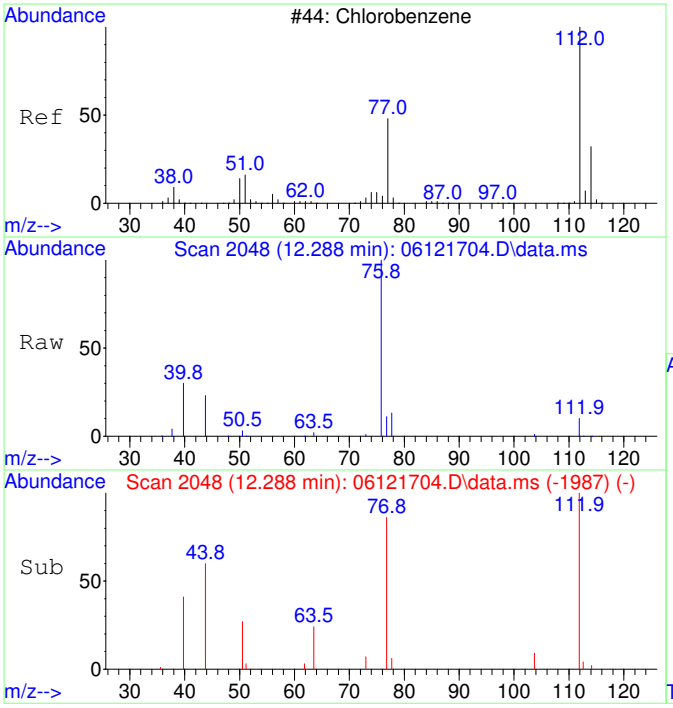


#38
1,1,2-Trichloroethane SCAN
Concen: 83.28 ug/L
RT: 10.773 min Scan# 1891
Delta R.T. -0.011 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 1657

Ion	Ratio	Lower	Upper
97	100		
83	86.8	57.8	117.8
61	20.0	48.6	108.6#
99	5.7	32.7	92.7#

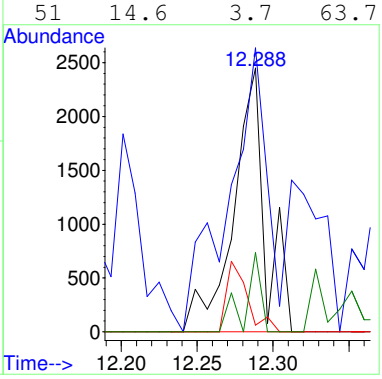


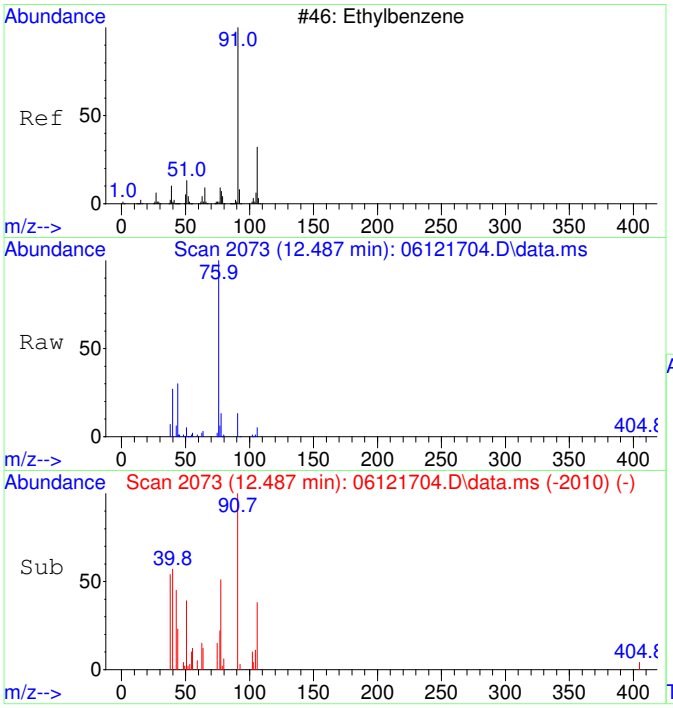


#40
Chlorobenzene SCAN
Concen: 65.80 ug/L
RT: 12.288 min Scan# 2048
Delta R.T. 0.008 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:112 Resp: 3571

Ion	Ratio	Lower	Upper
112	100		
77	118.6	35.1	95.1#
114	17.5	2.6	62.6
51	14.6	3.7	63.7

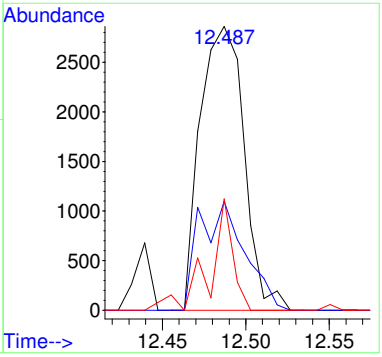


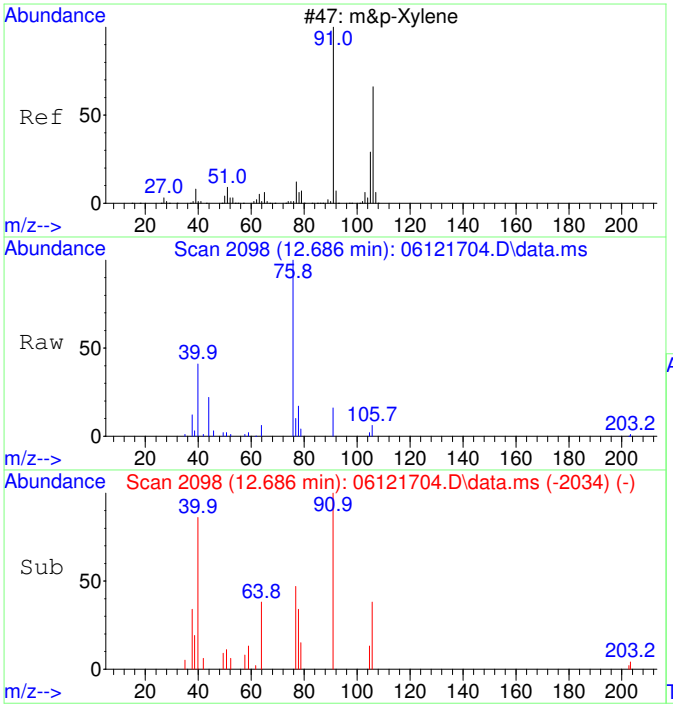


#42
Ethylbenzene SCAN
Concen: 52.95 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 5238

Ion	Ratio	Lower	Upper
91	100		
106	39.9	0.0	59.8
51	20.9	0.0	45.5

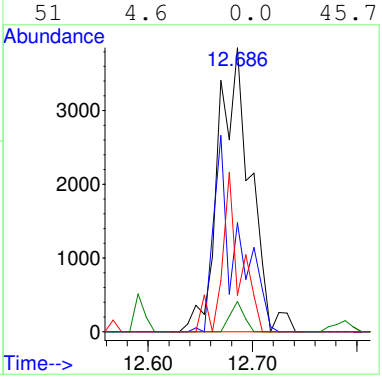


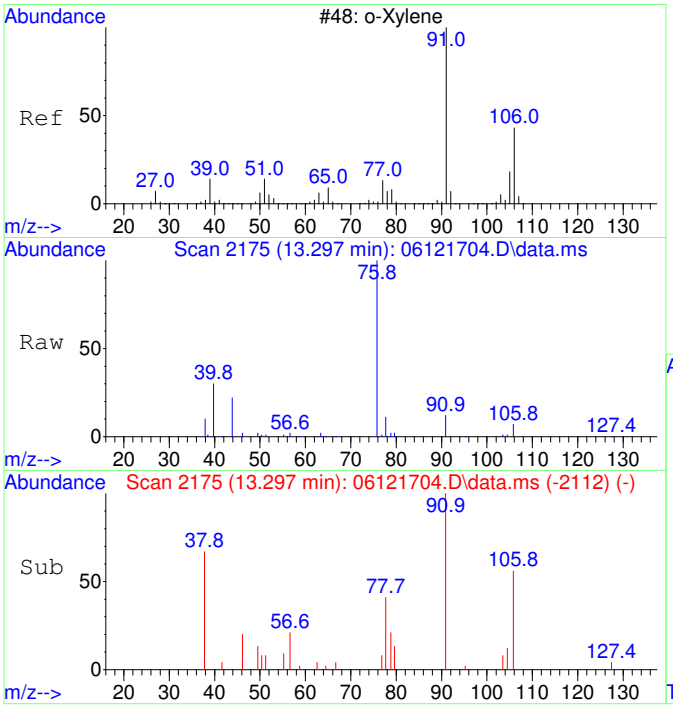


#43
m&p-Xylene SCAN
Concen: 53.25 ug/L
RT: 12.686 min Scan# 2098
Delta R.T. 0.008 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 8225

Ion	Ratio	Lower	Upper
91	100		
106	49.6	18.5	78.5
105	31.2	0.0	51.3
51	4.6	0.0	45.7

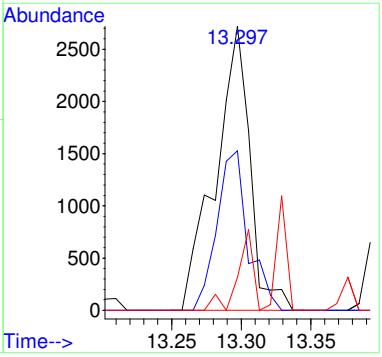


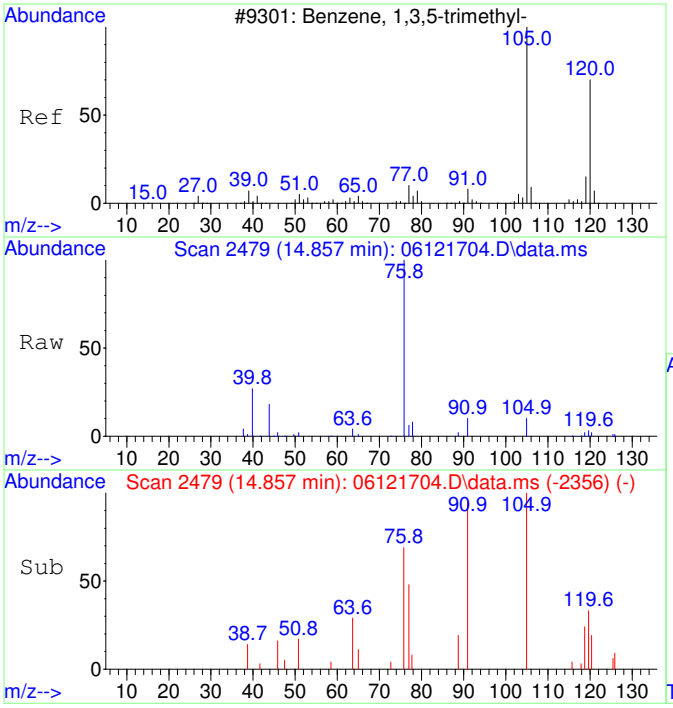


#44
o-Xylene SCAN
Concen: 58.77 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 4674

Ion	Ratio	Lower	Upper
91	100		
106	50.9	15.5	75.5
105	12.6	0.0	54.1

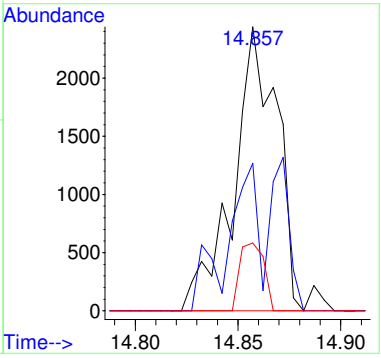


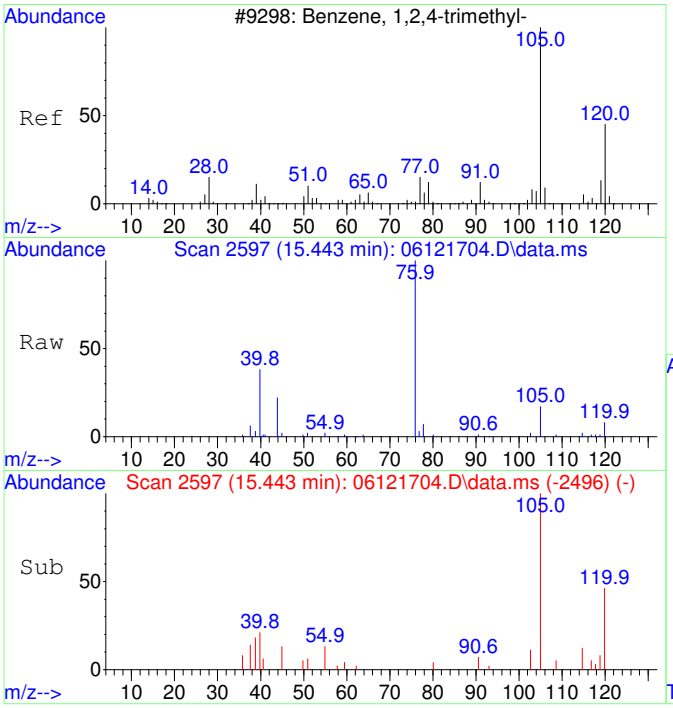


#46
1,3,5-Trimethylbenzene SCAN
Concen: 47.58 ug/L
RT: 14.857 min Scan# 2479
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 3590

Ion	Ratio	Lower	Upper
105	100		
120	31.8	17.3	77.3
119	13.3	0.0	42.7

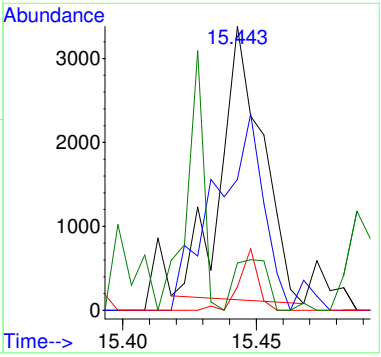


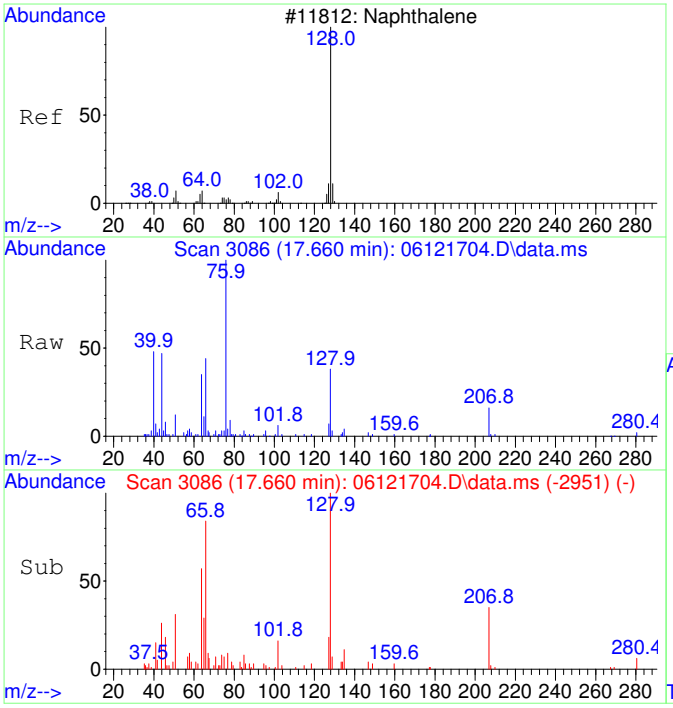


#47
1,2,4-Trimethylbenzene SCAN
Concen: 45.09 ug/L
RT: 15.443 min Scan# 2597
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 3545

Ion	Ratio	Lower	Upper
105	100		
120	83.5	12.9	72.9#
119	9.9	0.0	40.5
77	14.7	0.0	43.3

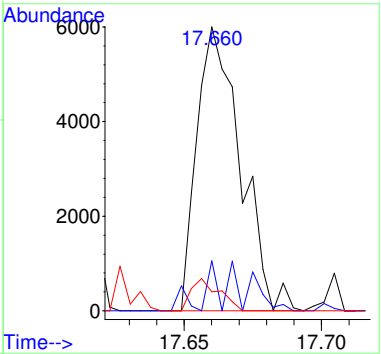




#48
Naphthalene SCAN
Concen: 61.07 ug/L
RT: 17.660 min Scan# 3086
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:128 Resp: 6622

Ion	Ratio	Lower	Upper
128	100		
127	3.5	0.0	43.9
129	7.3	0.0	41.0



S17F044-CRL2

QLS REPORT

Instrument Name: AG5975C
Sample Name: S17F044-CRL2
Misc Info: 1717061 0.15 mg/L Benzene only
Date Acquired: 6/12/17 13:07
QLast Update: Tue Jun 06 15:10:51 2017
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
9)	Benzene	6.991	150.0	183.83	123%	60	140	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121705.D
Acq On : 12 Jun 2017 13:07
InstName : AG5975C
Operator : RH
Sample : S17F044-CRL2
Misc : 1717061 0.15 mg/L Benzene only
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 12 13:58:36 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

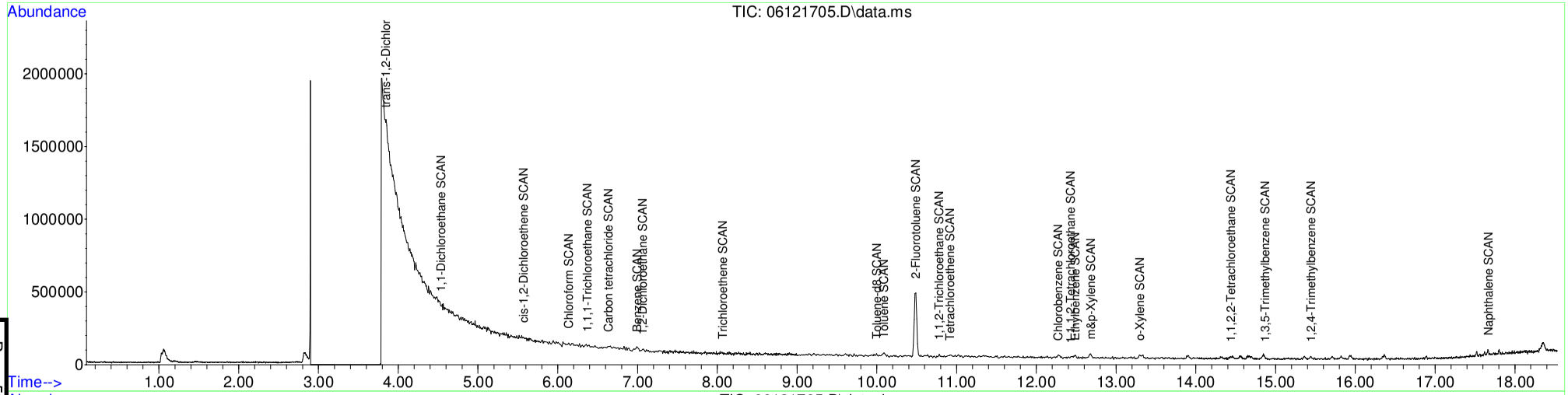
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.480	109	624483	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	9.987	98	15624	152.77	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 3.06%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	2.718	61	8962	181.97	ug/L	97
3] trans-1,2-Dichloroethene	3.849	61	8927	167.23	ug/L	88
4] 1,1-Dichloroethane	4.533	63	9654	167.78	ug/L	99
5] cis-1,2-Dichloroethene	5.555	61	9041	164.38	ug/L	99
6] Chloroform	6.140	83	8776	164.90	ug/L	97
7] 1,1,1-Trichloroethane	6.371	97	7707	157.67	ug/L	99
8] Carbon tetrachloride	6.626	117	6420	152.26	ug/L	99
9] Benzene	6.991	78	22784	183.83	ug/L	98
10] 1,2-Dichloroethane	7.052	62	7345	159.96	ug/L	99
11] Trichloroethene	8.058	130	4943	155.08	ug/L	99
13] Toluene	10.092	91	21164	156.27	ug/L	99
14] 1,1,2-Trichloroethane	10.774	97	4389	151.55	ug/L	100
15] Tetrachloroethene	10.921	166	5273	151.90	ug/L	99
16] Chlorobenzene	12.274	112	13119	152.50	ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.433	131	4051	143.47	ug/L	98
18] Ethylbenzene	12.481	91	21520	147.65	ug/L	99
19] m&p-Xylene	12.671	91	33411	292.20	ug/L	99
20] o-Xylene	13.291	91	17286	146.18	ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	7192	143.00	ug/L	100
22] 1,3,5-Trimethylbenzene	14.854	105	16320	139.77	ug/L	100
23] 1,2,4-Trimethylbenzene	15.440	105	16688	139.42	ug/L	100
24] Naphthalene	17.662	128	28020	158.07	ug/L	100
25) 2-Fluorotoluene SCAN	10.490	109	372706	4922.54	ug/L	97
27) trans-1,2-Dichloroethe...	3.841	61	5734	168.66	ug/L #	50
28) 1,1-Dichloroethane SCAN	4.538	63	7608	196.28	ug/L	56
29) cis-1,2-Dichloroethene...	5.567	61	6736	171.75	ug/L	81
30) Chloroform SCAN	6.138	83	4695	132.76	ug/L #	27
31) 1,1,1-Trichloroethane ...	6.369	97	6432	221.00	ug/L #	68
32) Carbon tetrachloride SCAN	6.637	117	4286	159.97	ug/L #	79
33) Benzene SCAN	6.990	78	24122	300.95	ug/L #	74
34) 1,2-Dichloroethane SCAN	7.063	62	5282	152.73	ug/L #	36
35) Trichloroethene SCAN	8.066	130	1311	70.63	ug/L #	31
36) Toluene-d8 SCAN	9.996	98	9137	146.22	ug/L	95
37) Toluene SCAN	10.091	91	15782	189.36	ug/L	84
38) 1,1,2-Trichloroethane ...	10.784	97	2013	107.24	ug/L #	34
39) Tetrachloroethene SCAN	10.920	166	3665	214.50	ug/L #	67
40) Chlorobenzene SCAN	12.273	112	8622	168.42	ug/L	91
41) 1,1,1,2-Tetrachloroeth...	12.424	131	1684	105.69	ug/L #	34
42) Ethylbenzene SCAN	12.487	91	15630	167.49	ug/L	82
43) m&p-Xylene SCAN	12.678	91	21732	149.15	ug/L	94
44) o-Xylene SCAN	13.297	91	9911	132.09	ug/L	72
45) 1,1,2,2-Tetrachloroeth...	14.438	83	6002	176.84	ug/L #	53
46) 1,3,5-Trimethylbenzene...	14.863	105	10042	141.10	ug/L	84
47) 1,2,4-Trimethylbenzene...	15.439	105	11034	148.77	ug/L	89
48) Naphthalene SCAN	17.665	128	12914	126.25	ug/L	77

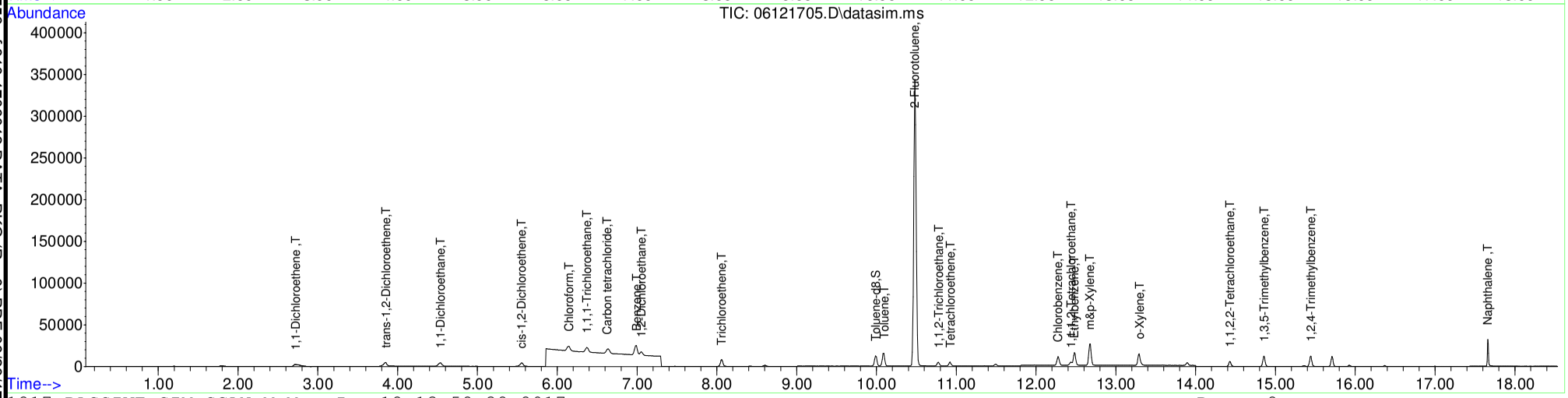
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121705.D
Acq On : 12 Jun 2017 13:07
InstName : AG5975C
Operator : RH
Sample : S17F044-CRL2
Misc : 1717061 0.15 mg/L Benzene only
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 12 13:58:36 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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1706012-08RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121706.D
Acq On : 12 Jun 2017 13:31
InstName : AG5975C
Operator : RH
Sample : 1706012-08RE1
Misc : 100 UL - 1 ML
ALS Vial : 11 Sample Multiplier: 10

Quant Time: Jun 12 14:03:08 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

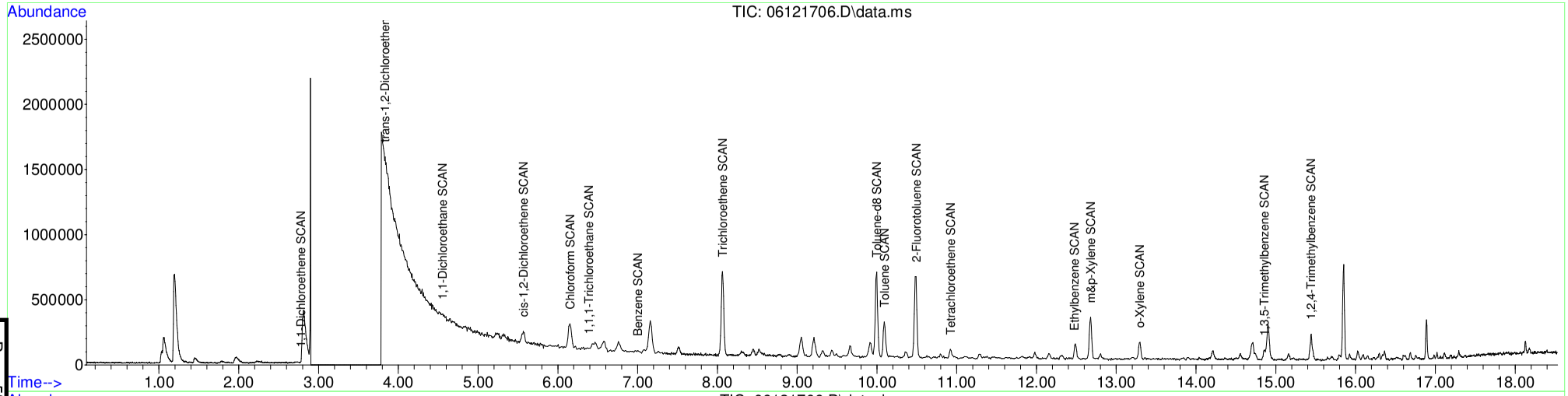
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.480	109	916935	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	766796	5106.35 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 102.13%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.711	61	11194	154.79 ug/L	99
3] trans-1,2-Dichloroethene	3.863	61	9355	119.36 ug/L	88
4] 1,1-Dichloroethane	4.546	63	7792	92.23 ug/L	97
5] cis-1,2-Dichloroethene	5.561	61	119047	1474.15 ug/L	100
6] Chloroform	6.152	83	286071	3660.80 ug/L	99
7] 1,1,1-Trichloroethane	6.371	97	5600	78.03 ug/L	97
9] Benzene	6.991	78	18138	99.67 ug/L	98
11] Trichloroethene	8.063	130	409752	8755.08 ug/L	100
13] Toluene	10.082	91	361057	1815.65 ug/L	100
15] Tetrachloroethene	10.921	166	35260	691.79 ug/L	100
18] Ethylbenzene	12.481	91	117922	551.00 ug/L	100
19] m&p-Xylene	12.671	91	352573	2100.04 ug/L	99
20] o-Xylene	13.291	91	139199	801.70 ug/L	100
22] 1,3,5-Trimethylbenzene	14.854	105	66877	390.09 ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	193132	1098.88 ug/L	100
25) 2-Fluorotoluene SCAN	10.490	109	508864	4577.27 ug/L	97
26) 1,1-Dichloroethene SCAN	2.776	61	1322	28.26 ug/L	94
27) trans-1,2-Dichloroethe...	3.835	61	1516	30.37 ug/L	79
28) 1,1-Dichloroethane SCAN	4.558	63	3670	64.48 ug/L	94
29) cis-1,2-Dichloroethene...	5.567	61	81648	1417.85 ug/L	88
30) Chloroform SCAN	6.150	83	191077	3679.70 ug/L	99
31) 1,1,1-Trichloroethane ...	6.382	97	3559	83.28 ug/L #	60
33) Benzene SCAN	7.002	78	26920	228.74 ug/L	86
35) Trichloroethene SCAN	8.062	130	220997	8108.68 ug/L	94
36) Toluene-d8 SCAN	9.996	98	473144	5156.80 ug/L	98
37) Toluene SCAN	10.091	91	220676	1803.28 ug/L	98
39) Tetrachloroethene SCAN	10.920	166	18733	746.69 ug/L #	59
42) Ethylbenzene SCAN	12.479	91	72633	530.07 ug/L	97
43) m&p-Xylene SCAN	12.678	91	205512	960.61 ug/L	99
44) o-Xylene SCAN	13.297	91	89282	810.42 ug/L	97
46) 1,3,5-Trimethylbenzene...	14.853	105	39879	381.62 ug/L	96
47) 1,2,4-Trimethylbenzene...	15.444	105	116155	1066.63 ug/L	96

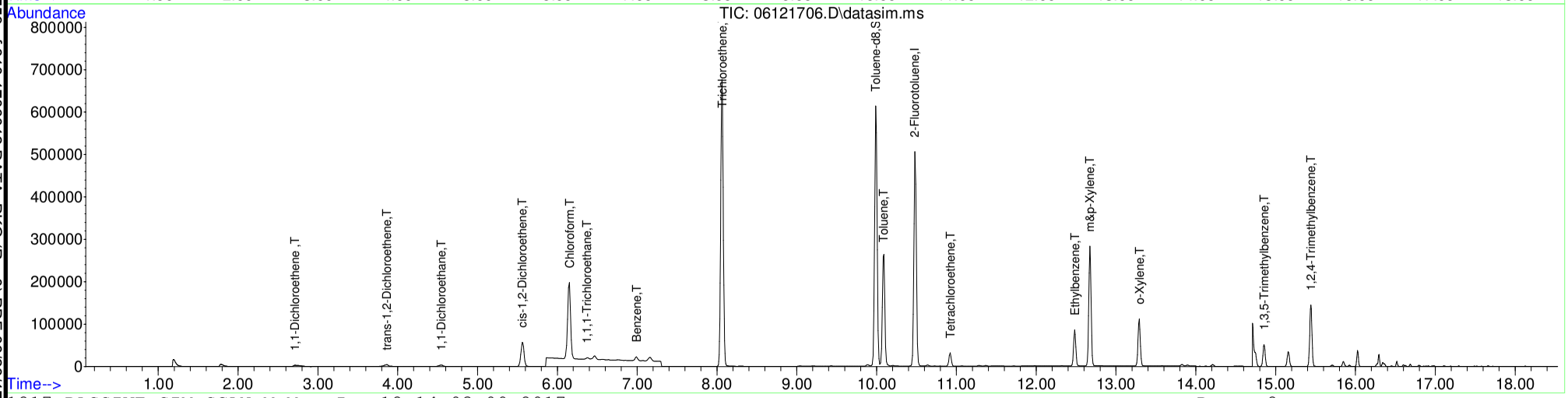
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121706.D
Acq On : 12 Jun 2017 13:31
InstName : AG5975C
Operator : RH
Sample : 1706012-08RE1 (Sig #1); 1706012-03RE1 (Sig #2)
Misc : 100 UL - 1 ML
ALS Vial : 11 Sample Multiplier: 10

Quant Time: Jun 12 14:03:08 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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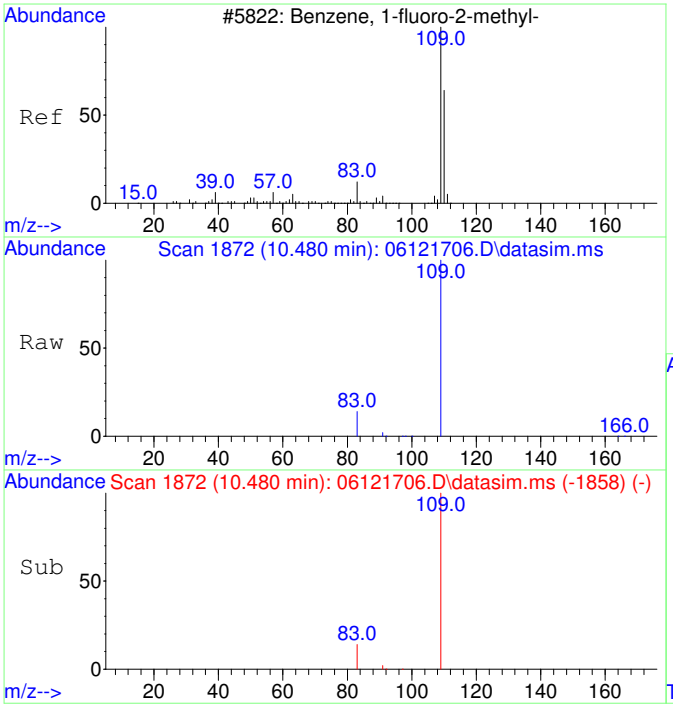
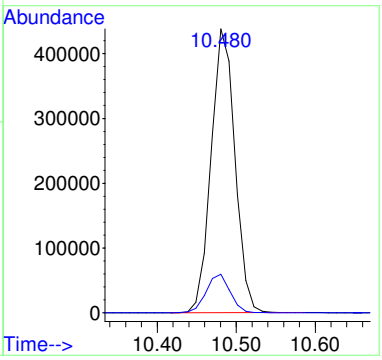
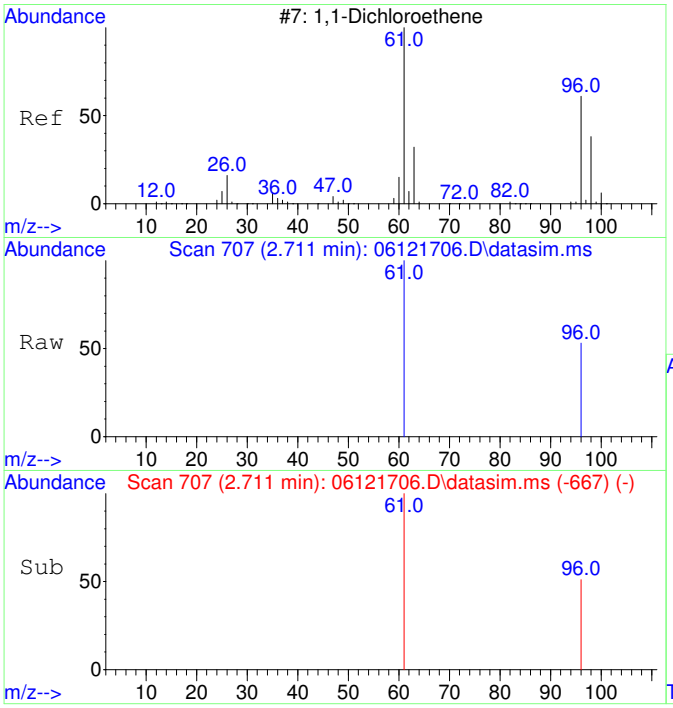


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion:109 Resp: 916935

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.4

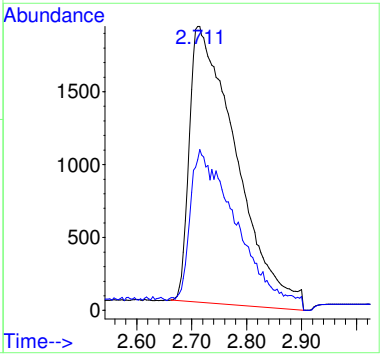


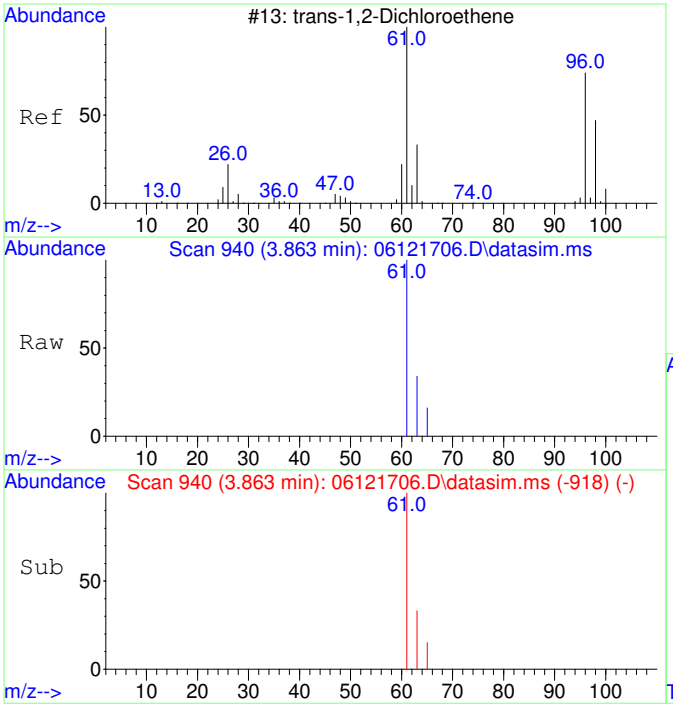


#2
1,1-Dichloroethene
Concen: 154.79 ug/L
RT: 2.711 min Scan# 707
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 61 Resp: 11194

Ion	Ratio	Lower	Upper
61	100		
96	52.8	21.8	81.8

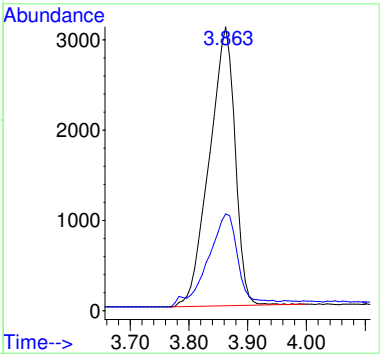


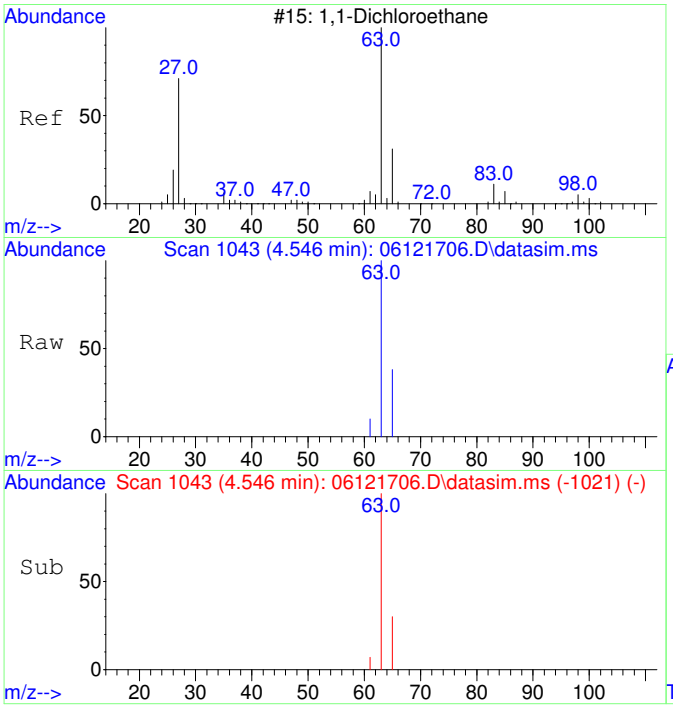


#3
trans-1,2-Dichloroethene
Concen: 119.36 ug/L
RT: 3.863 min Scan# 940
Delta R.T. -0.007 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 61 Resp: 9355

Ion	Ratio	Lower	Upper
61	100		
63	37.6	1.0	61.0

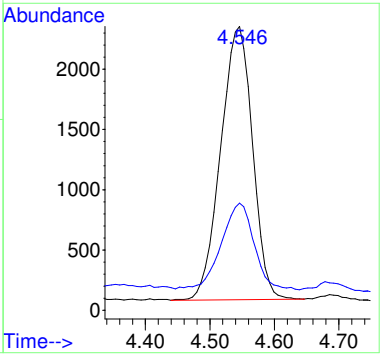


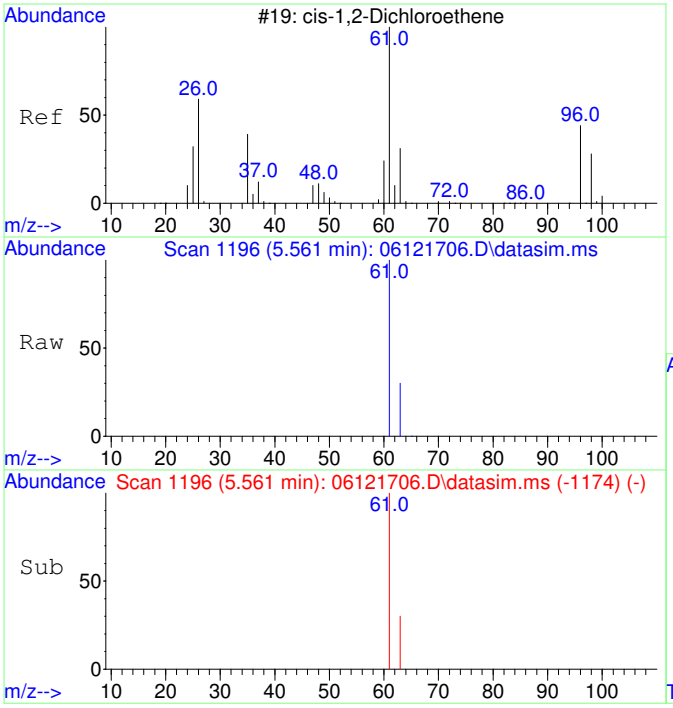


#4
1,1-Dichloroethane
Concen: 92.23 ug/L
RT: 4.546 min Scan# 1043
Delta R.T. -0.007 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 63 Resp: 7792

Ion	Ratio	Lower	Upper
63	100		
65	32.0	0.4	60.4

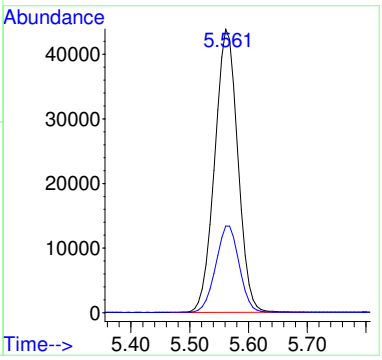


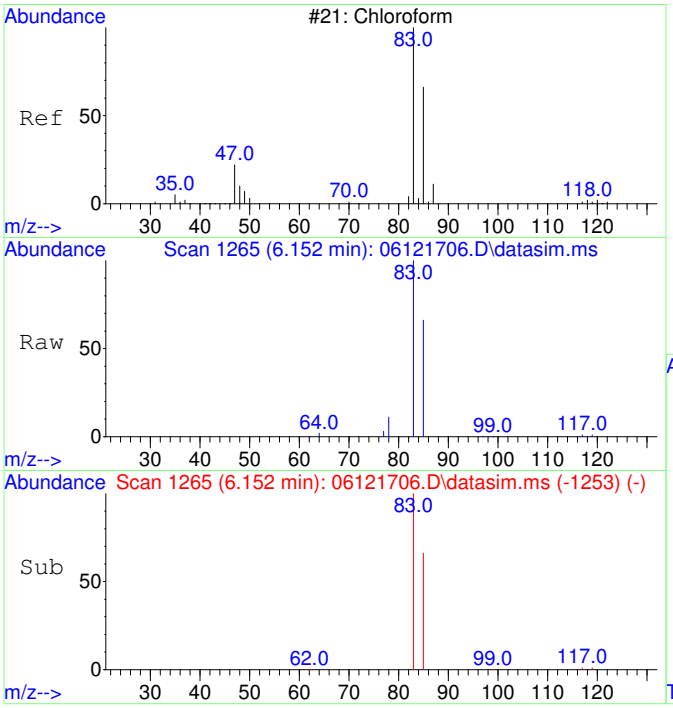


#5
cis-1,2-Dichloroethene
Concen: 1474.15 ug/L
RT: 5.561 min Scan# 1196
Delta R.T. -0.007 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 61 Resp: 119047

Ion	Ratio	Lower	Upper
61	100		
63	30.9	0.9	60.9

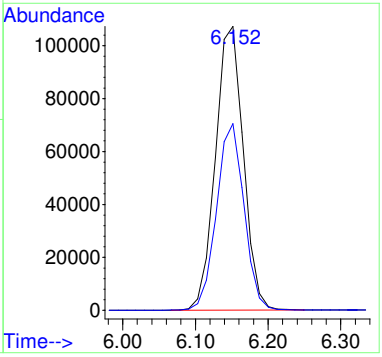


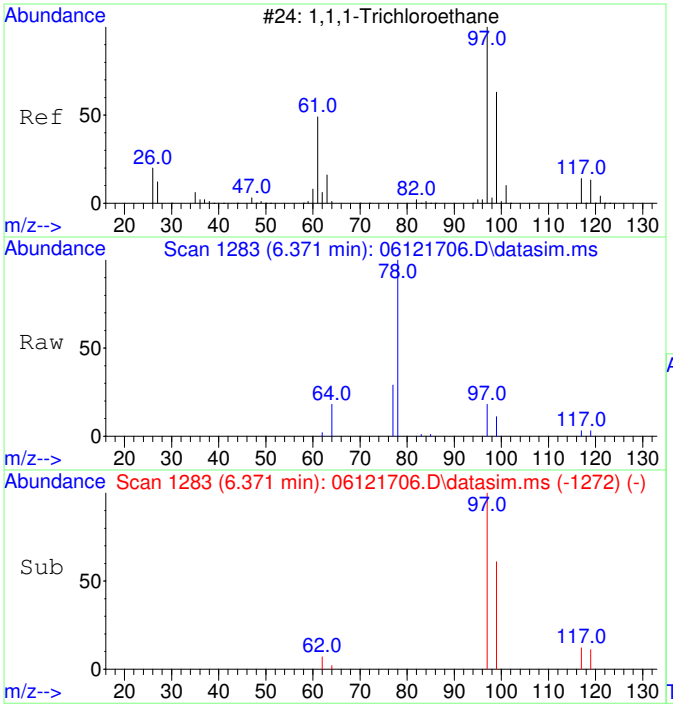


#6
Chloroform
Concen: 3660.80 ug/L
RT: 6.152 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 83 Resp: 286071

Ion	Ratio	Lower	Upper
83	100		
85	64.3	33.7	93.7

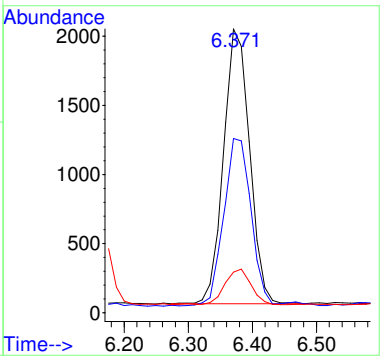


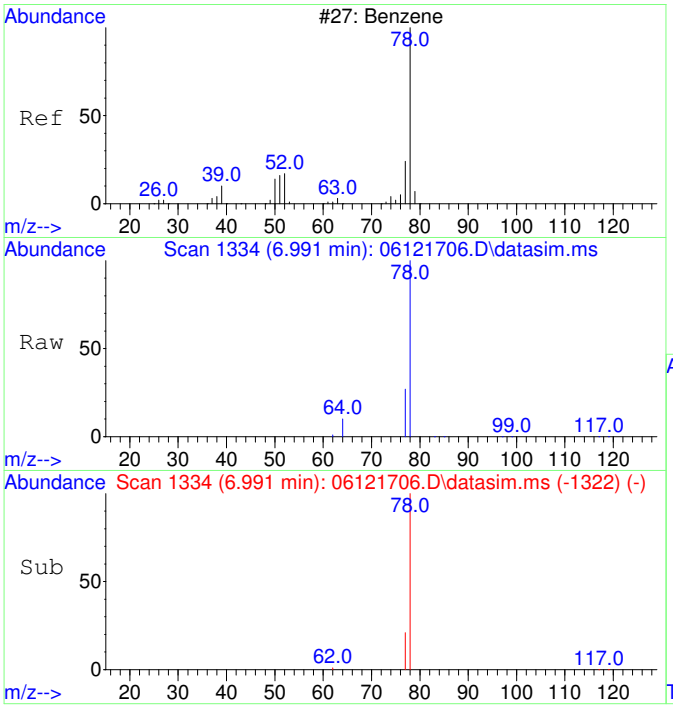


#7
1,1,1-Trichloroethane
Concen: 78.03 ug/L
RT: 6.371 min Scan# 1283
Delta R.T. -0.012 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 97 Resp: 5600

Ion	Ratio	Lower	Upper
97	100		
99	62.1	34.3	94.3
117	12.9	0.0	42.3

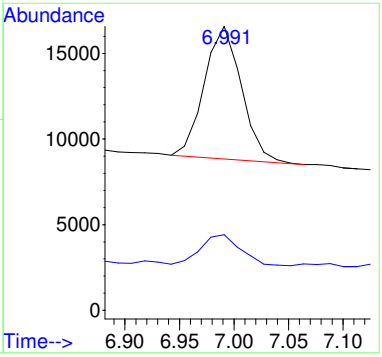


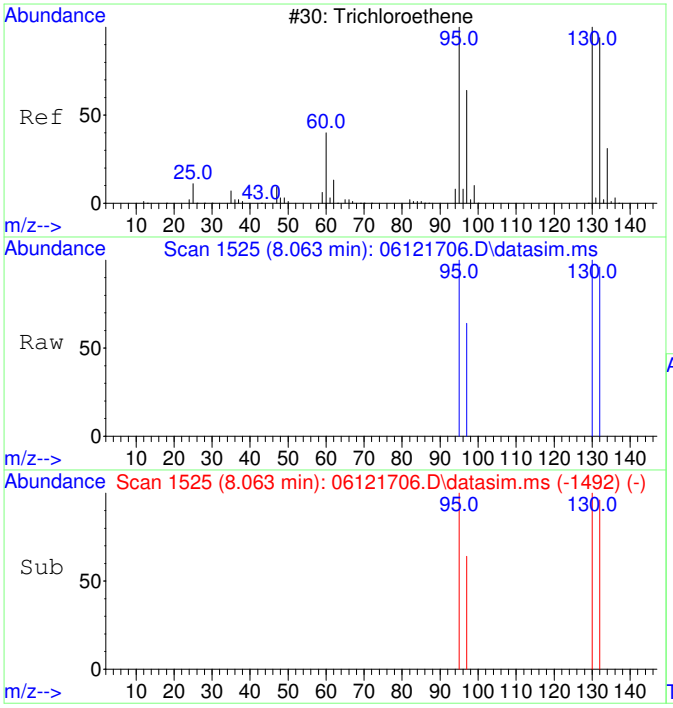


#9
Benzene
Concen: 99.67 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 78 Resp: 18138

Ion	Ratio	Lower	Upper
78	100		
77	23.8	0.0	53.0

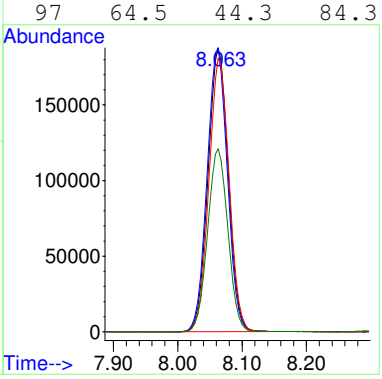


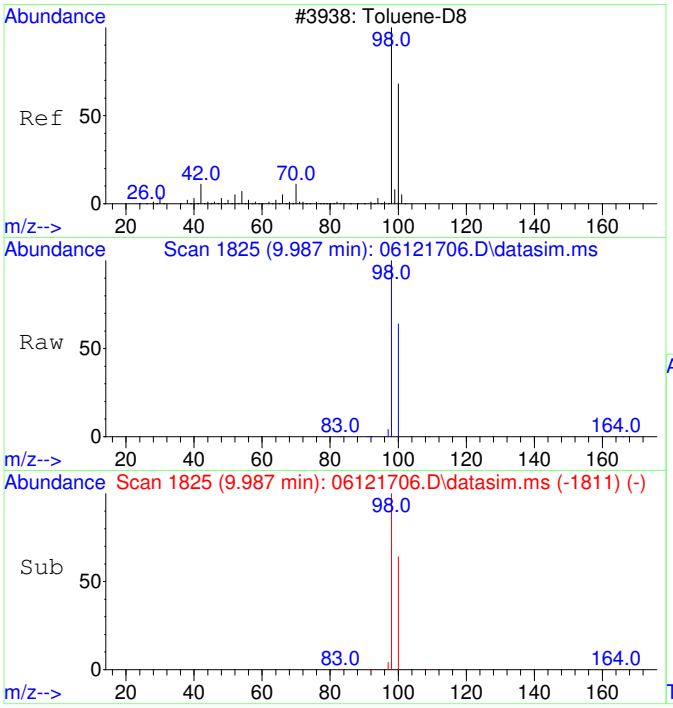


#11
Trichloroethene
Concen: 8755.08 ug/L
RT: 8.063 min Scan# 1525
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion:130 Resp: 409752

Ion	Ratio	Lower	Upper
130	100		
95	100.2	69.8	129.8
132	96.0	76.4	116.4
97	64.5	44.3	84.3

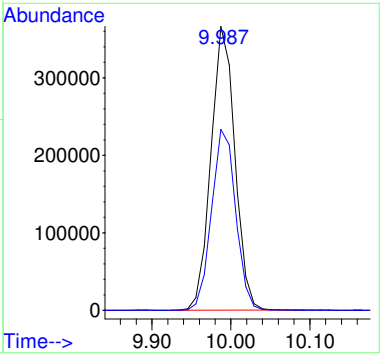


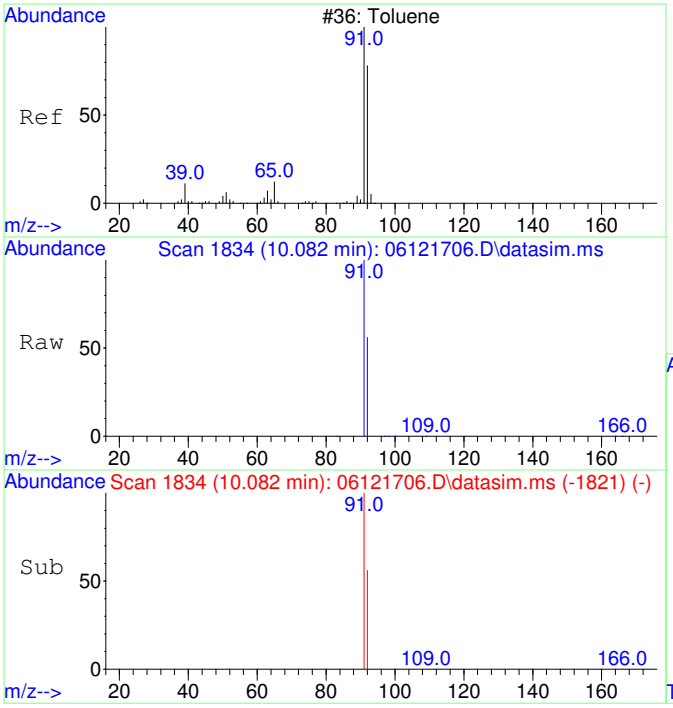


#12
Toluene-d8
Concen: 5106.35 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 98 Resp: 766796

Ion	Ratio	Lower	Upper
98	100		
100	64.2	34.2	94.2

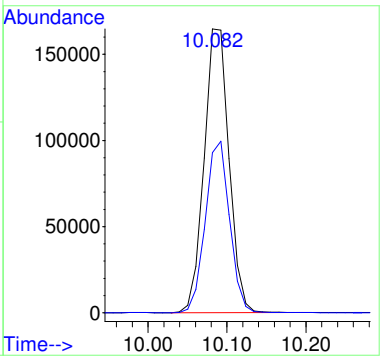


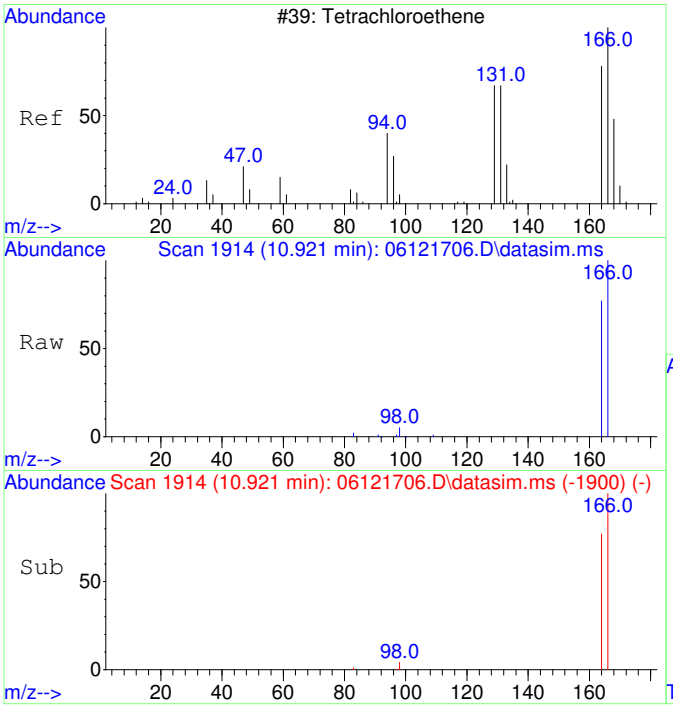


#13
Toluene
Concen: 1815.65 ug/L
RT: 10.082 min Scan# 1834
Delta R.T. -0.010 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 91 Resp: 361057

Ion	Ratio	Lower	Upper
91	100		
92	58.3	28.4	88.4

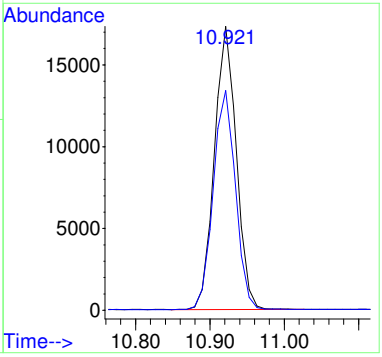


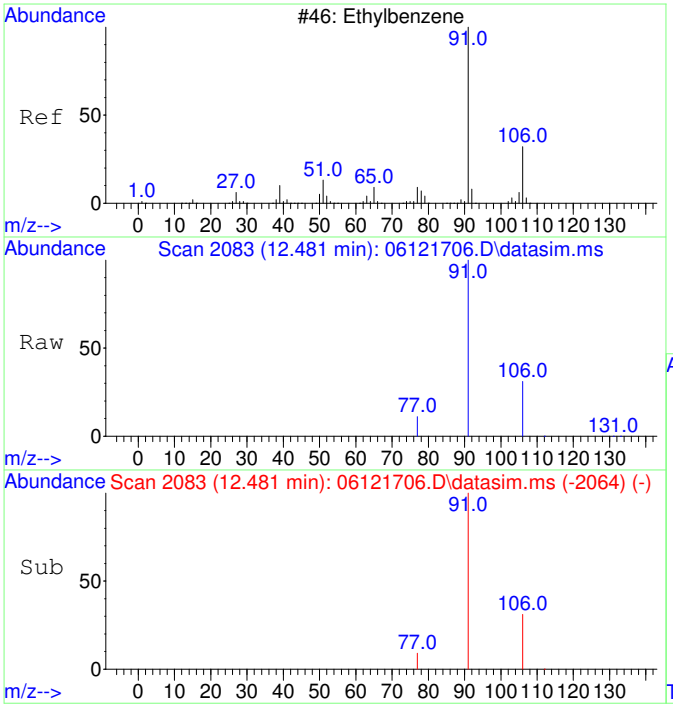


#15
Tetrachloroethene
Concen: 691.79 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion:166 Resp: 35260

Ion	Ratio	Lower	Upper
166	100		
164	78.2	48.1	108.1

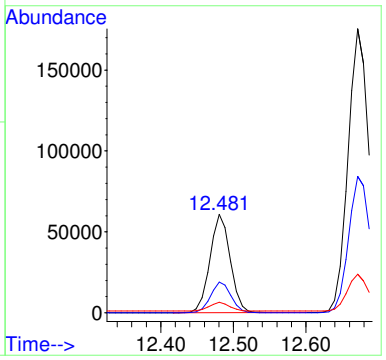


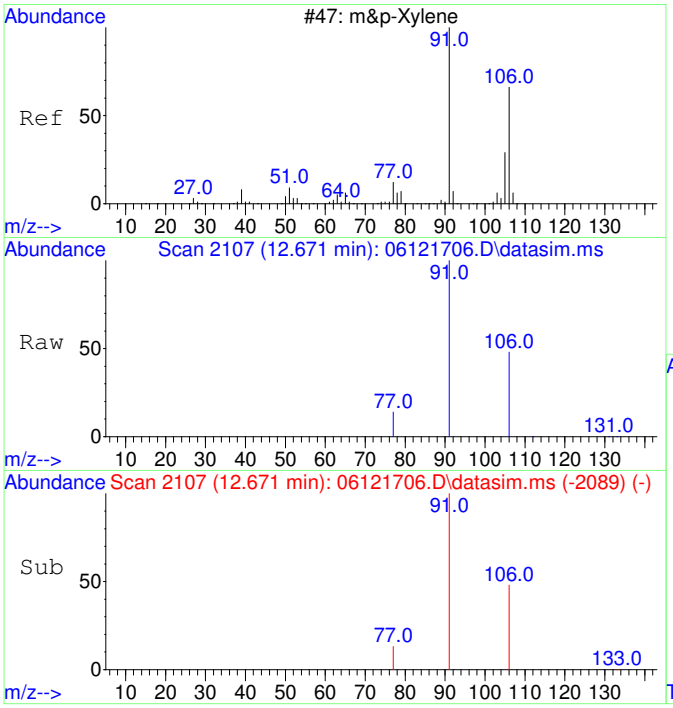


#18
Ethylbenzene
Concen: 551.00 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 91 Resp: 117922

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.2	61.2
77	8.6	0.0	38.6

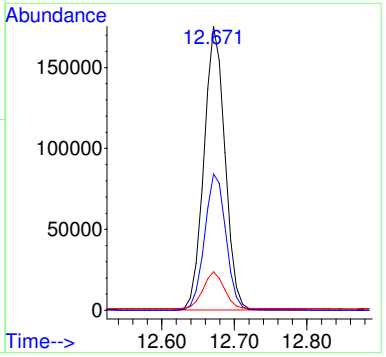


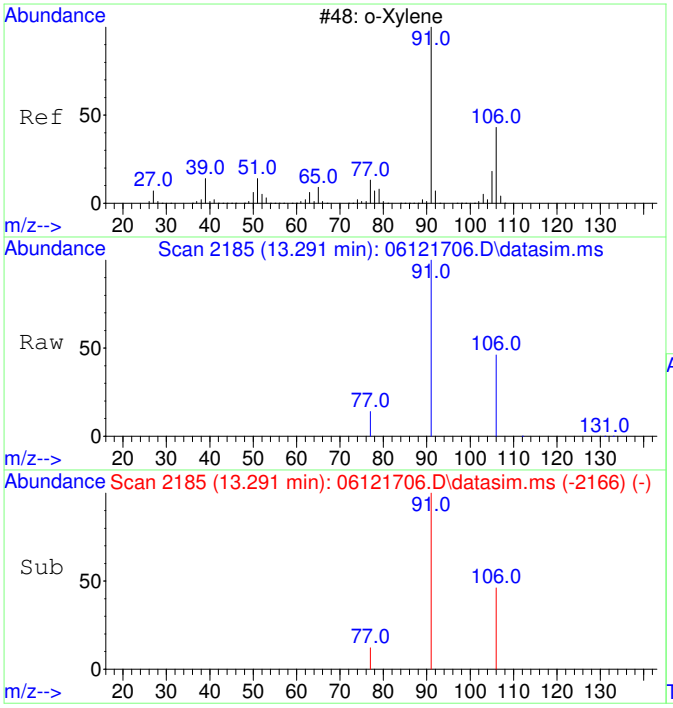


#19
m&p-Xylene
Concen: 2100.04 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 91 Resp: 352573

Ion	Ratio	Lower	Upper
91	100		
106	48.7	18.4	78.4
77	12.7	0.0	43.1

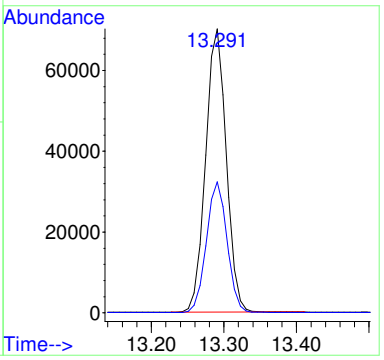


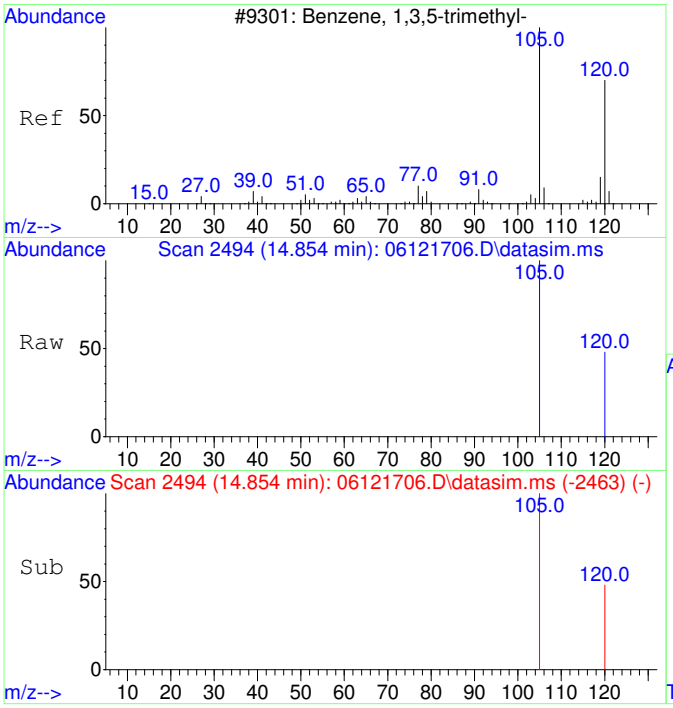


#20
o-Xylene
Concen: 801.70 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 91 Resp: 139199

Ion	Ratio	Lower	Upper
91	100		
106	45.8	16.0	76.0

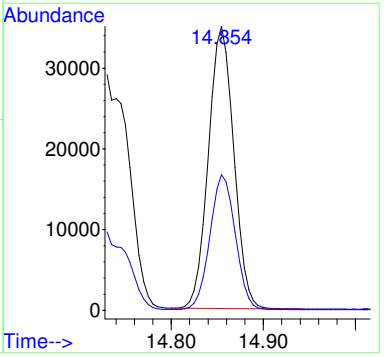


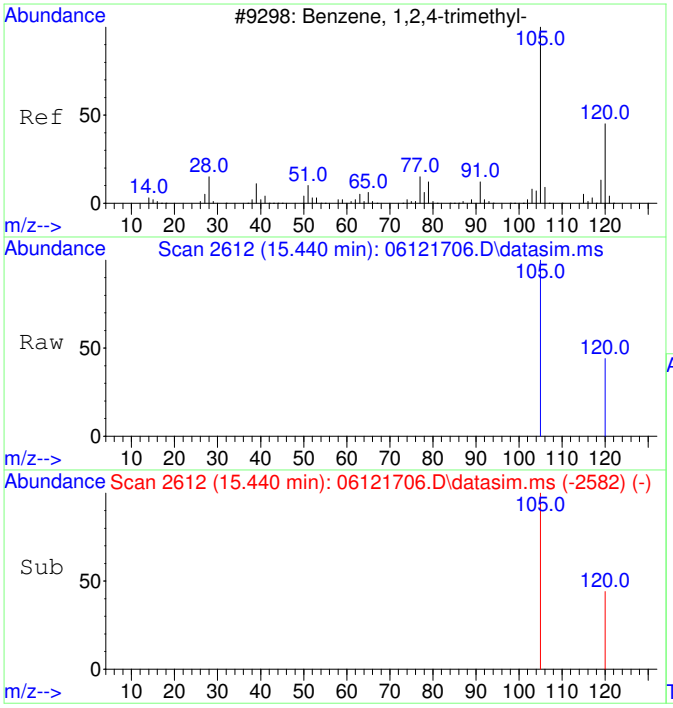


#22
1,3,5-Trimethylbenzene
Concen: 390.09 ug/L
RT: 14.854 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion:105 Resp: 66877

Ion	Ratio	Lower	Upper
105	100		
120	47.6	18.0	78.0

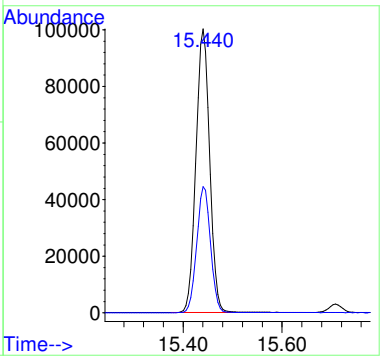


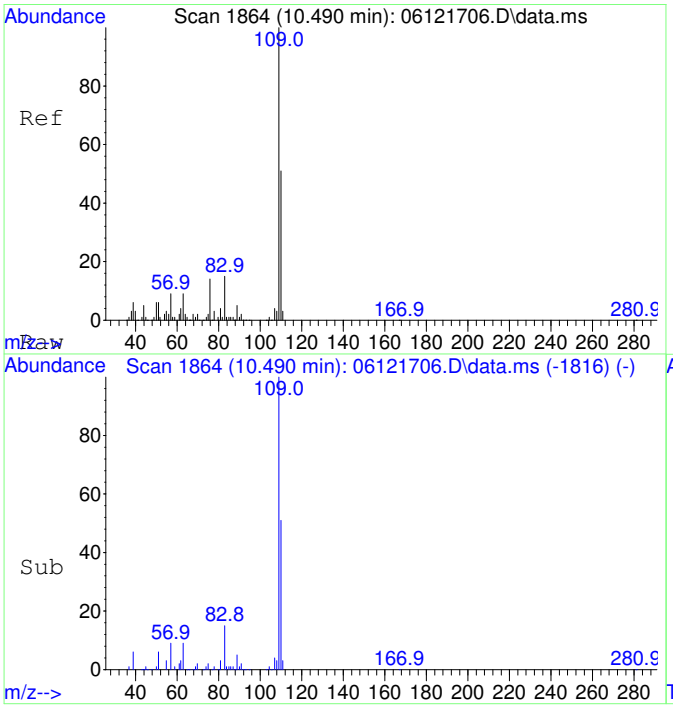


#23
1,2,4-Trimethylbenzene
Concen: 1098.88 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion:105 Resp: 193132

Ion	Ratio	Lower	Upper
105	100		
120	44.7	14.4	74.4

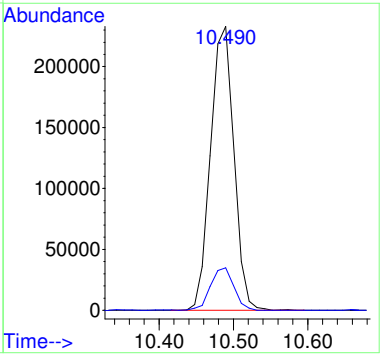


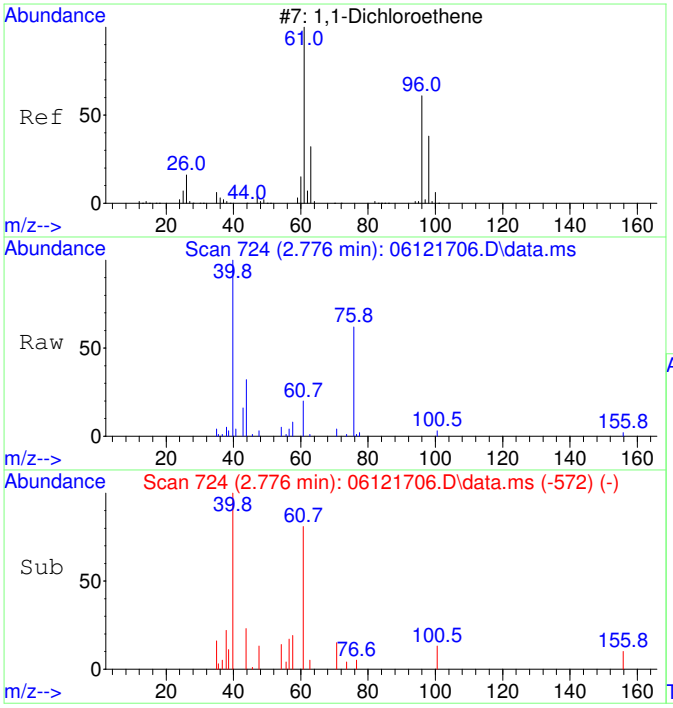


#25
2-Fluorotoluene SCAN
Concen: 4577.27 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion:109 Resp: 508864

Ion	Ratio	Lower	Upper
109	100		
83	14.9	0.0	46.1

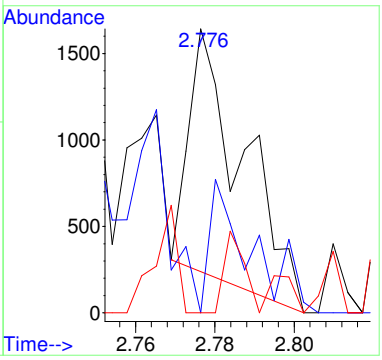


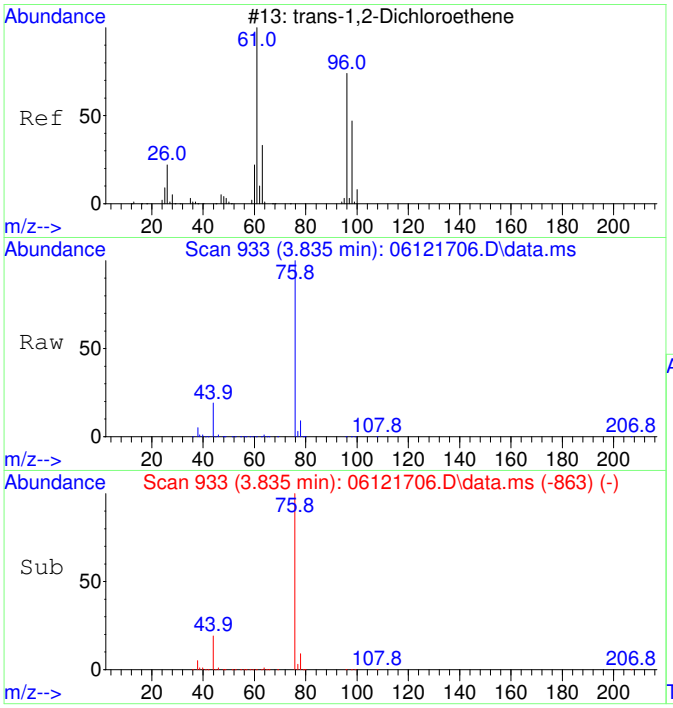


#26
1,1-Dichloroethene SCAN
Concen: 28.26 ug/L
RT: 2.776 min Scan# 724
Delta R.T. 0.063 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 61 Resp: 1322

Ion	Ratio	Lower	Upper
61	100		
96	42.9	16.7	76.7
98	12.8	0.0	45.3

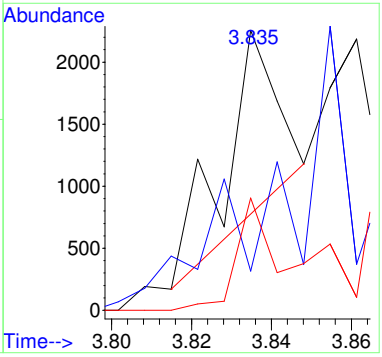


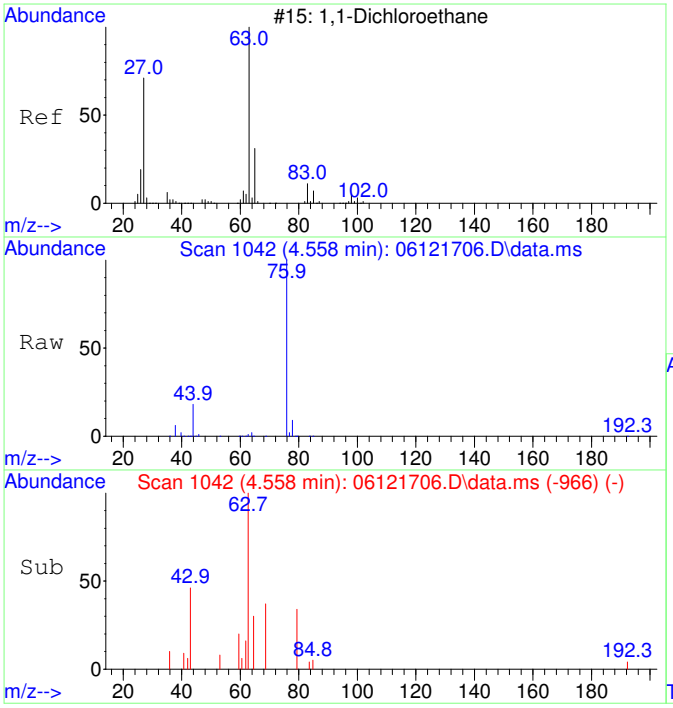


#27
trans-1,2-Dichloroethene SCAN
Concen: 30.37 ug/L
RT: 3.835 min Scan# 933
Delta R.T. -0.033 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 61 Resp: 1516

Ion	Ratio	Lower	Upper
61	100		
96	37.9	26.1	86.1
98	25.9	4.4	64.4

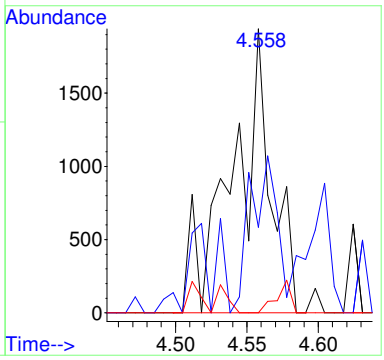


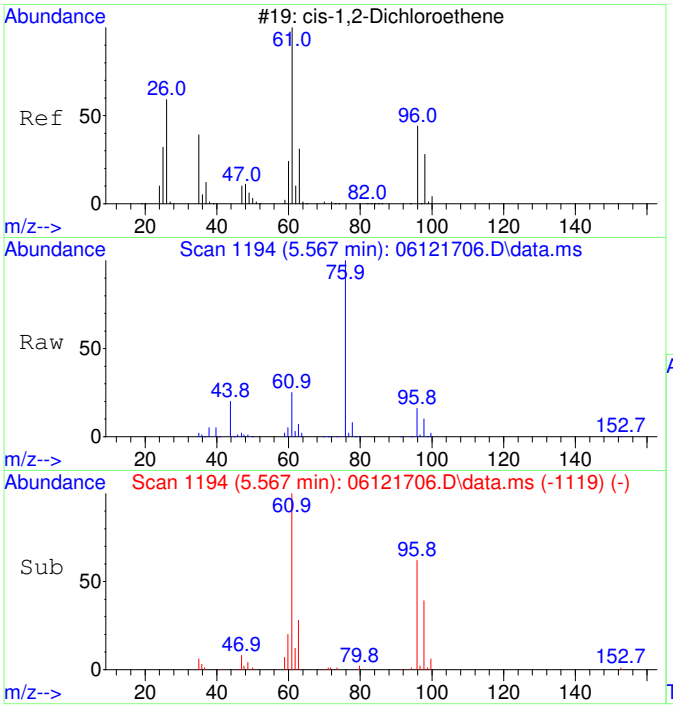


#28
1,1-Dichloroethane SCAN
Concen: 64.48 ug/L
RT: 4.558 min Scan# 1042
Delta R.T. 0.007 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 63 Resp: 3670

Ion	Ratio	Lower	Upper
63	100		
65	34.6	1.1	61.1
83	4.1	0.0	31.5

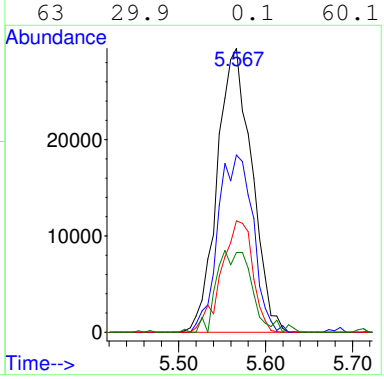


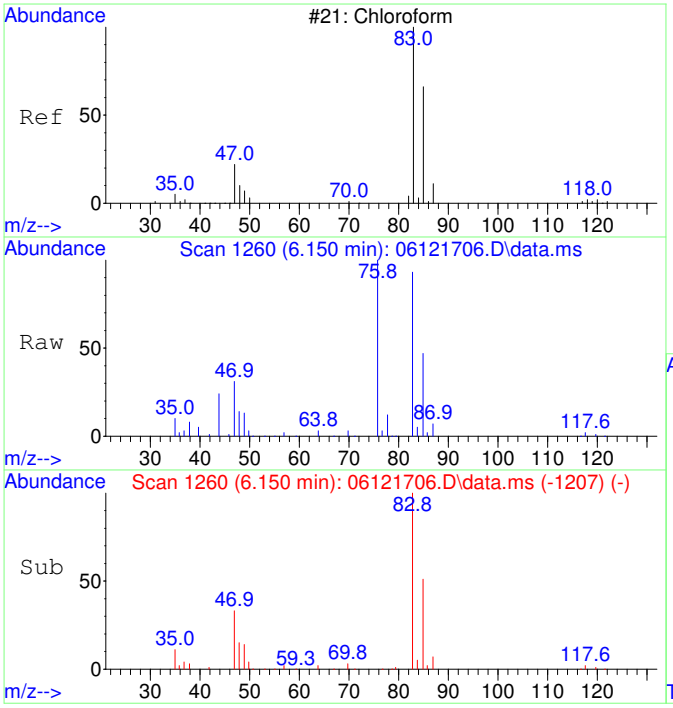


#29
cis-1,2-Dichloroethene SCAN
Concen: 1417.85 ug/L
RT: 5.567 min Scan# 1194
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 61 Resp: 81648

Ion	Ratio	Lower	Upper
61	100		
96	63.5	17.5	77.5
98	35.4	1.9	61.9
63	29.9	0.1	60.1

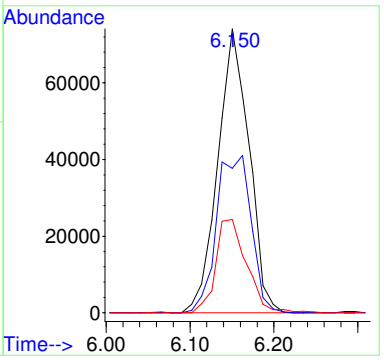


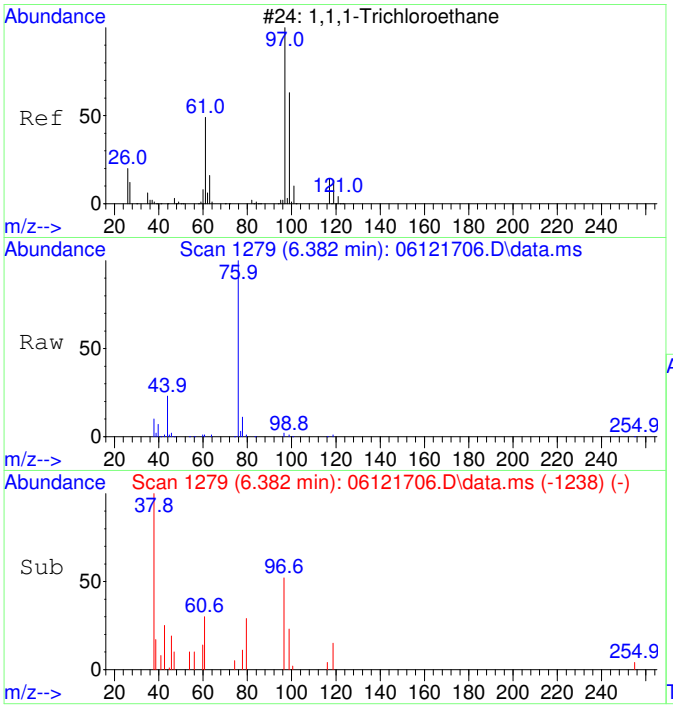


#30
Chloroform SCAN
Concen: 3679.70 ug/L
RT: 6.150 min Scan# 1260
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 83 Resp: 191077

Ion	Ratio	Lower	Upper
83	100		
85	61.7	31.2	91.2
47	32.7	3.2	63.2

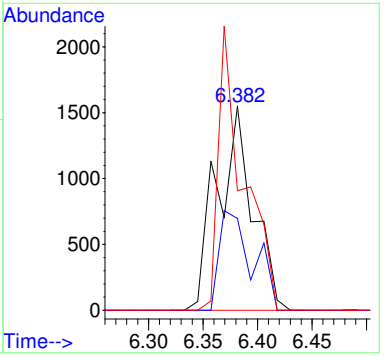


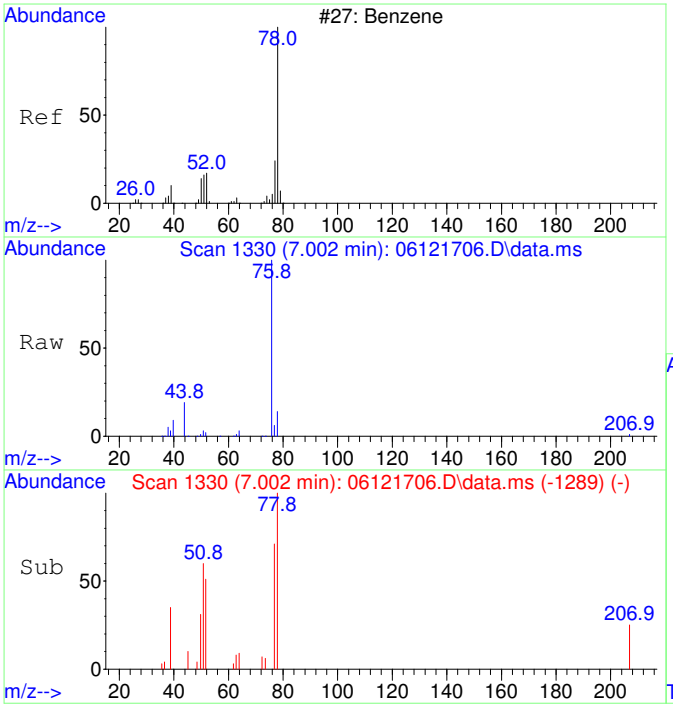


#31
1,1,1-Trichloroethane SCAN
Concen: 83.28 ug/L
RT: 6.382 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 97 Resp: 3559

Ion	Ratio	Lower	Upper
97	100		
99	45.0	38.7	98.7
61	96.9	27.8	87.8#

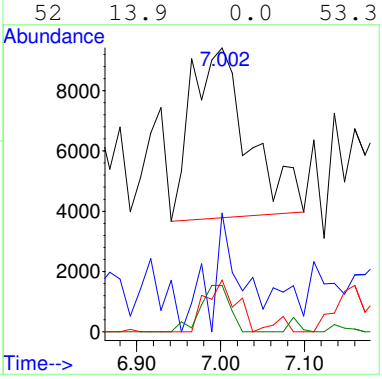


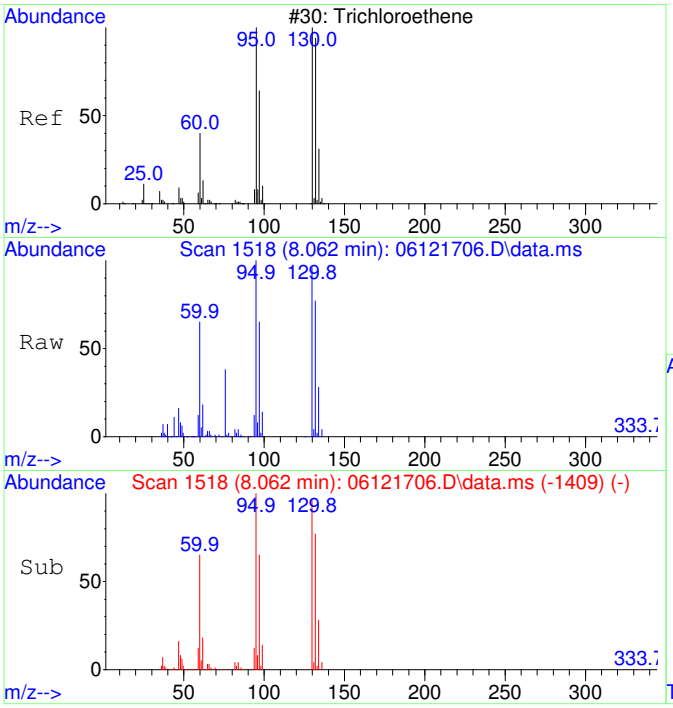


#33
Benzene SCAN
Concen: 228.74 ug/L
RT: 7.002 min Scan# 1330
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 78 Resp: 26920

Ion	Ratio	Lower	Upper
78	100		
77	21.5	0.0	55.2
51	15.2	0.0	52.4
52	13.9	0.0	53.3

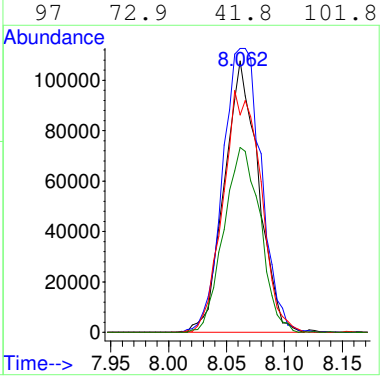


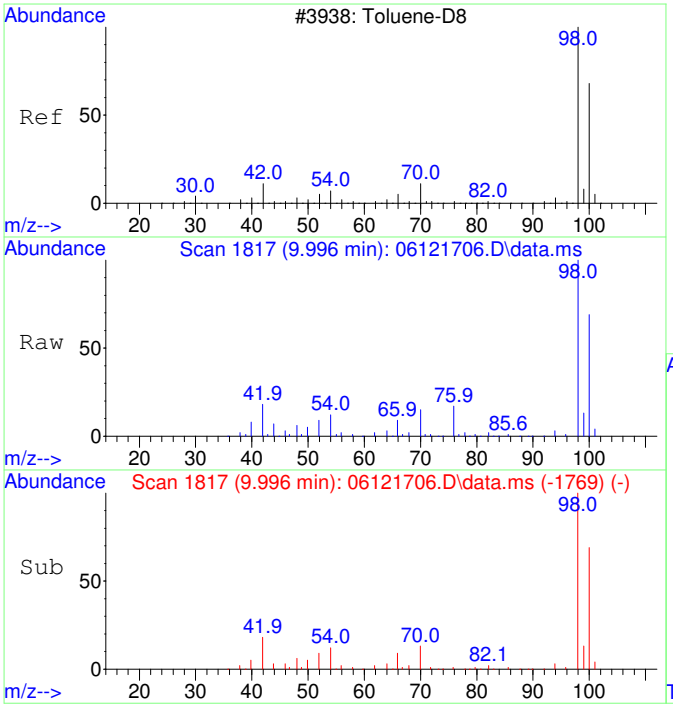


#35
Trichloroethene SCAN
Concen: 8108.68 ug/L
RT: 8.062 min Scan# 1518
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion:130 Resp: 220997

Ion	Ratio	Lower	Upper
130	100		
95	117.6	76.1	136.1
132	98.5	65.6	125.6
97	72.9	41.8	101.8

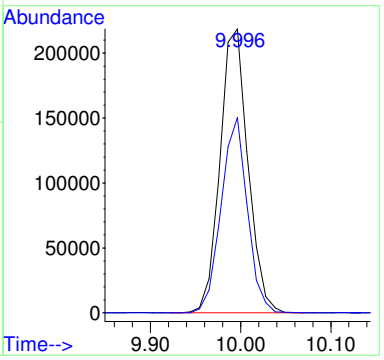


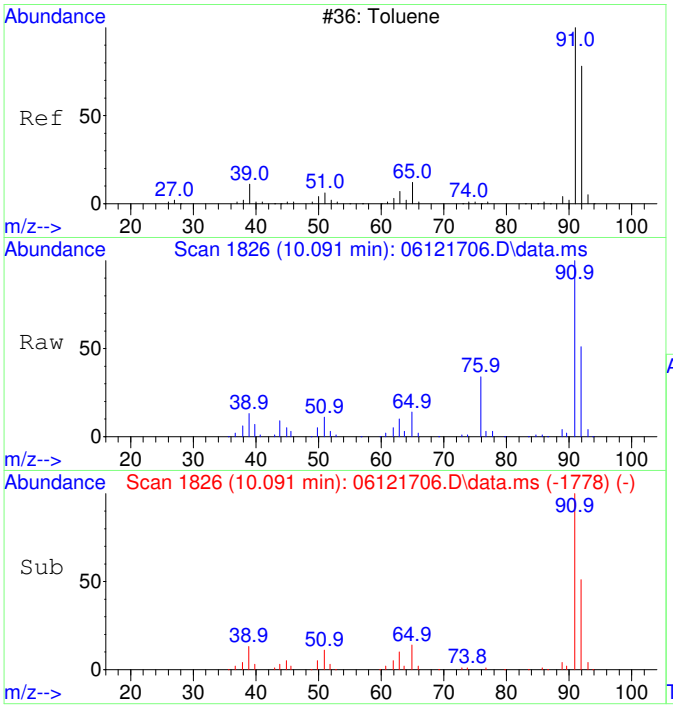


#36
Toluene-d8 SCAN
Concen: 5156.80 ug/L
RT: 9.996 min Scan# 1817
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 98 Resp: 473144

Ion	Ratio	Lower	Upper
98	100		
100	64.5	36.2	96.2

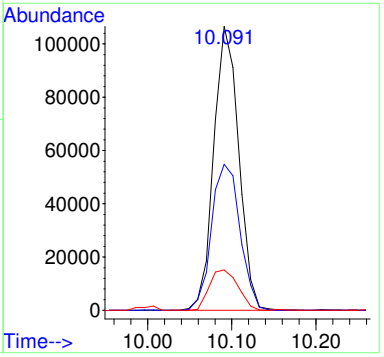


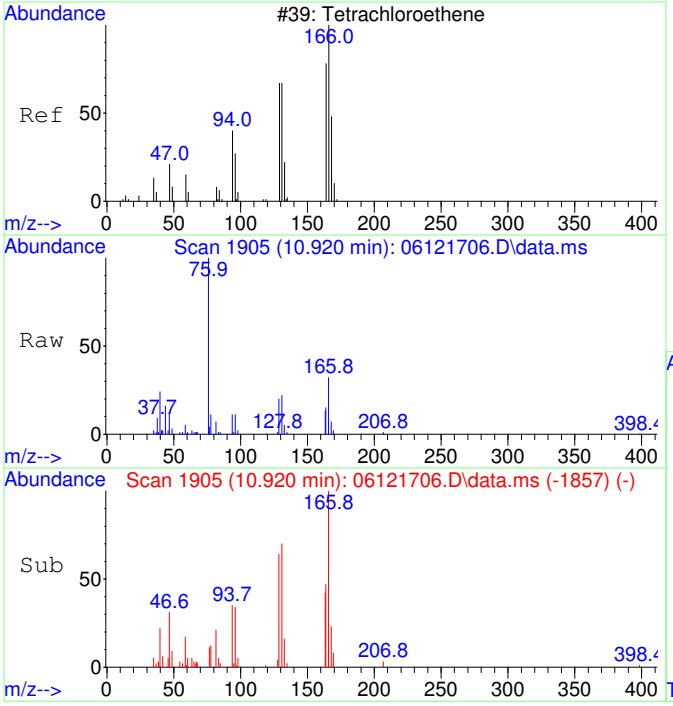


#37
Toluene SCAN
Concen: 1803.28 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 91 Resp: 220676

Ion	Ratio	Lower	Upper
91	100		
92	58.5	29.2	89.2
65	16.3	0.0	44.3

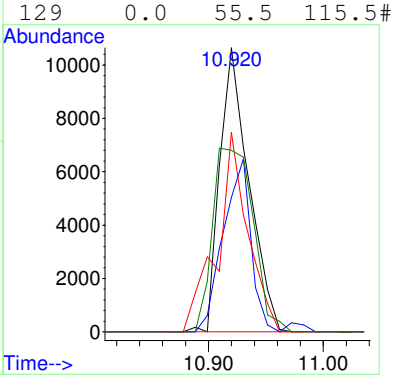


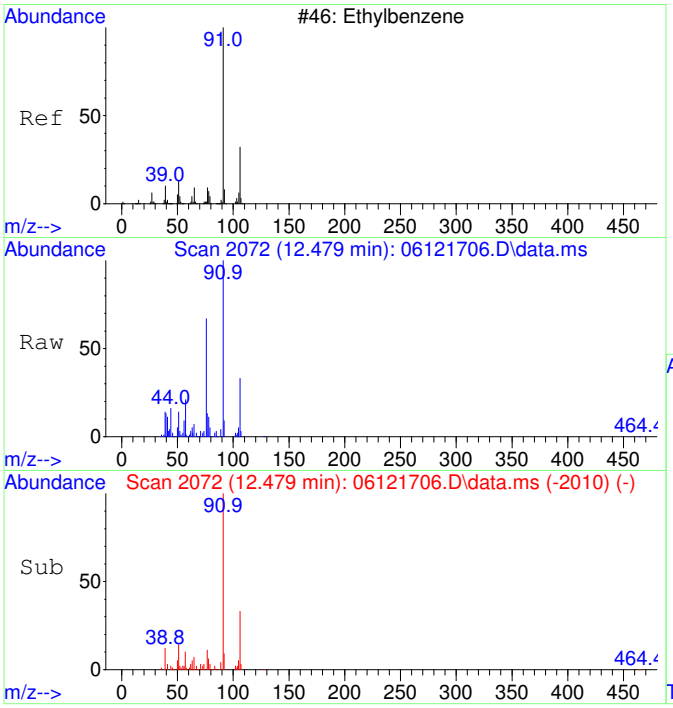


#39
Tetrachloroethene SCAN
Concen: 746.69 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion:166 Resp: 18733

Ion	Ratio	Lower	Upper
166	100		
164	57.8	45.7	105.7
131	74.1	44.8	104.8
129	0.0	55.5	115.5#

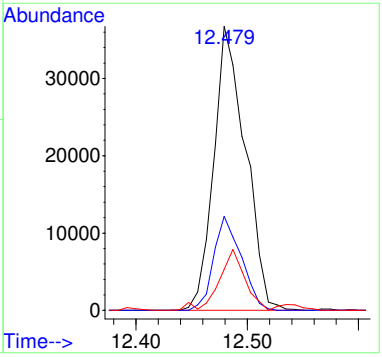


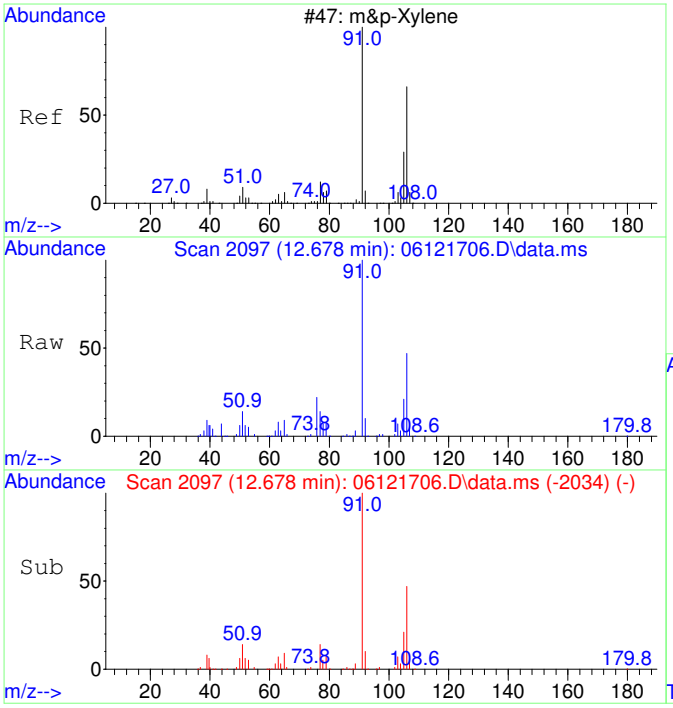


#42
Ethylbenzene SCAN
Concen: 530.07 ug/L
RT: 12.479 min Scan# 2072
Delta R.T. -0.008 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 91 Resp: 72633

Ion	Ratio	Lower	Upper
91	100		
106	28.9	0.0	59.8
51	17.5	0.0	45.5

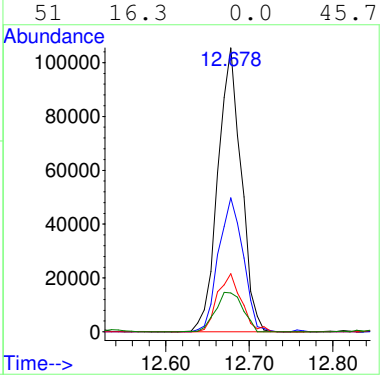


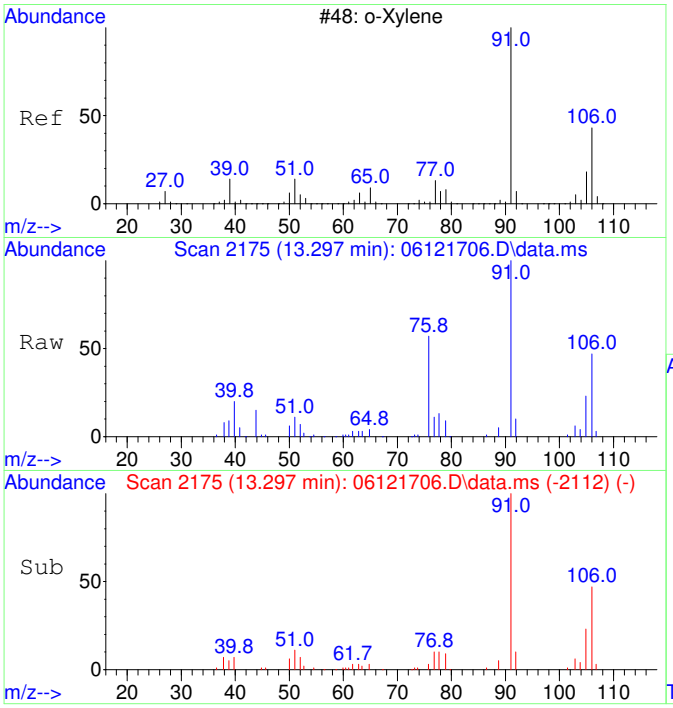


#43
m&p-Xylene SCAN
Concen: 960.61 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 91 Resp: 205512

Ion	Ratio	Lower	Upper
91	100		
106	49.7	18.5	78.5
105	21.1	0.0	51.3
51	16.3	0.0	45.7

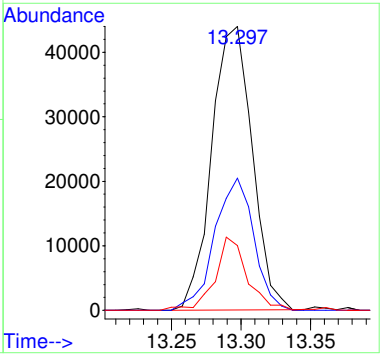


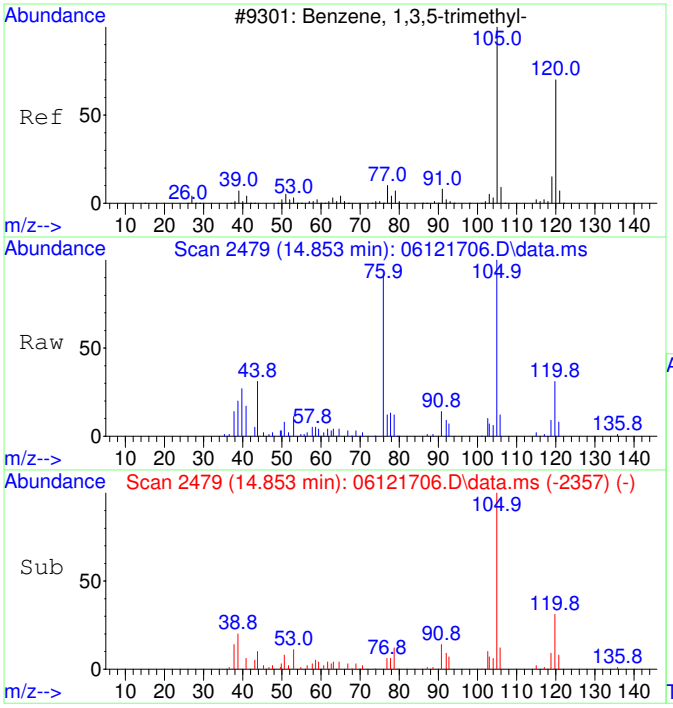


#44
o-Xylene SCAN
Concen: 810.42 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. 0.000 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion: 91 Resp: 89282

Ion	Ratio	Lower	Upper
91	100		
106	45.0	15.5	75.5
105	19.9	0.0	54.1

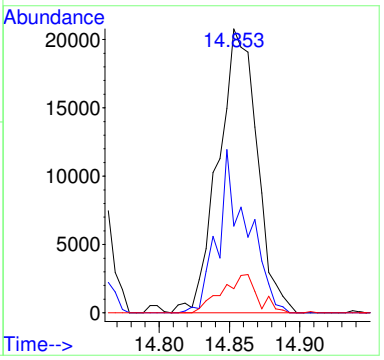


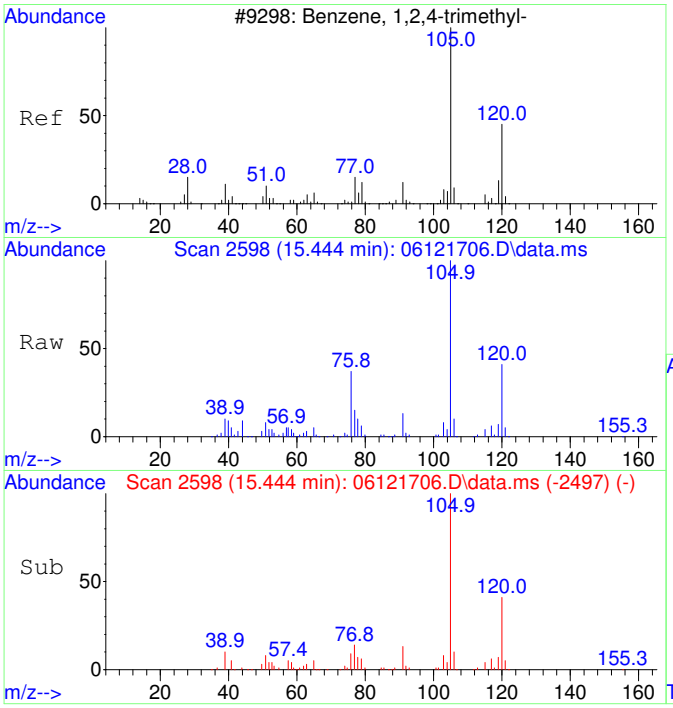


#46
1,3,5-Trimethylbenzene SCAN
Concen: 381.62 ug/L
RT: 14.853 min Scan# 2479
Delta R.T. -0.004 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion:105 Resp: 39879

Ion	Ratio	Lower	Upper
105	100		
120	44.0	17.3	77.3
119	12.4	0.0	42.7

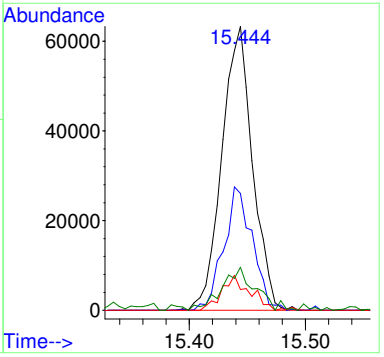




#47
1,2,4-Trimethylbenzene SCAN
Concen: 1066.63 ug/L
RT: 15.444 min Scan# 2598
Delta R.T. 0.001 min
Lab File: 06121706.D
Acq: 12 Jun 2017 13:31

Tgt Ion:105 Resp: 116155

Ion	Ratio	Lower	Upper
105	100		
120	40.8	12.9	72.9
119	10.9	0.0	40.5
77	16.6	0.0	43.3



1706012-03RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121707.D
Acq On : 12 Jun 2017 14:08
InstName : AG5975C
Operator : RH
Sample : 1706012-03RE1
Misc : 100 UL - 1 ML
ALS Vial : 6 Sample Multiplier: 10

Quant Time: Jun 13 11:03:04 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

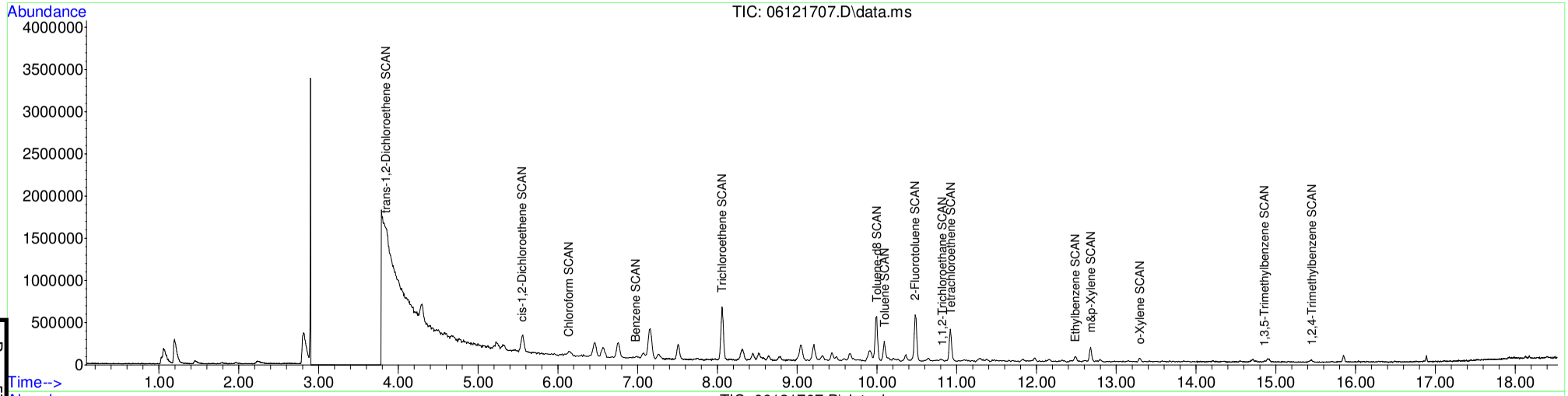
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.480	109	763871	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	635437	5079.50 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 101.59%		
Target Compounds					Qvalue
3] trans-1,2-Dichloroethene	3.849	61	16378	250.83 ug/L	91
5] cis-1,2-Dichloroethene	5.555	61	251194	3733.79 ug/L	100
6] Chloroform	6.139	83	59699	917.04 ug/L	97
9] Benzene	6.979	78	25535	168.43 ug/L	96
11] Trichloroethene	8.058	130	391199	10033.56 ug/L	100
13] Toluene	10.082	91	264462	1596.39 ug/L	100
14] 1,1,2-Trichloroethane	10.795	97	922	26.03 ug/L #	7
15] Tetrachloroethene	10.921	166	228497	5381.35 ug/L	100
18] Ethylbenzene	12.480	91	64444	361.46 ug/L	99
19] m&p-Xylene	12.671	91	167154	1195.13 ug/L	100
20] o-Xylene	13.291	91	42373	292.94 ug/L	100
22] 1,3,5-Trimethylbenzene	14.854	105	10752	75.28 ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	22866	156.17 ug/L	100
25) 2-Fluorotoluene SCAN	10.479	109	435474	4702.03 ug/L	99
27) trans-1,2-Dichloroethe...	3.841	61	12073	290.31 ug/L	94
29) cis-1,2-Dichloroethene...	5.553	61	170979	3564.08 ug/L	87
30) Chloroform SCAN	6.138	83	40327	932.22 ug/L	90
33) Benzene SCAN	6.978	78	27272	278.16 ug/L #	76
35) Trichloroethene SCAN	8.057	130	207851	9154.50 ug/L	93
36) Toluene-d8 SCAN	9.996	98	387755	5072.98 ug/L	100
37) Toluene SCAN	10.091	91	166791	1636.06 ug/L	95
38) 1,1,2-Trichloroethane ...	10.815	97	702	30.57 ug/L #	15
39) Tetrachloroethene SCAN	10.920	166	98234	4700.20 ug/L	87
42) Ethylbenzene SCAN	12.487	91	45117	395.24 ug/L	92
43) m&p-Xylene SCAN	12.678	91	95337	534.92 ug/L	95
44) o-Xylene SCAN	13.297	91	28352	308.92 ug/L	89
46) 1,3,5-Trimethylbenzene...	14.858	105	5914	67.93 ug/L	94
47) 1,2,4-Trimethylbenzene...	15.449	105	15840	174.60 ug/L #	47

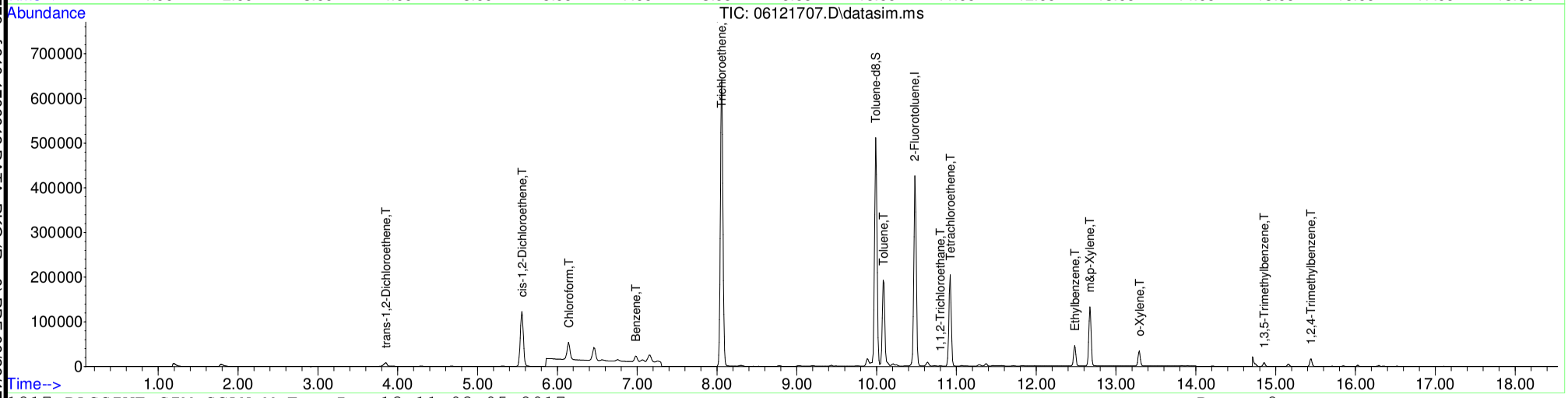
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121707.D
Acq On : 12 Jun 2017 14:08
InstName : AG5975C
Operator : RH
Sample : 1706012-03RE1
Misc : 100 UL - 1 ML
ALS Vial : 6 Sample Multiplier: 10

Quant Time: Jun 13 11:03:04 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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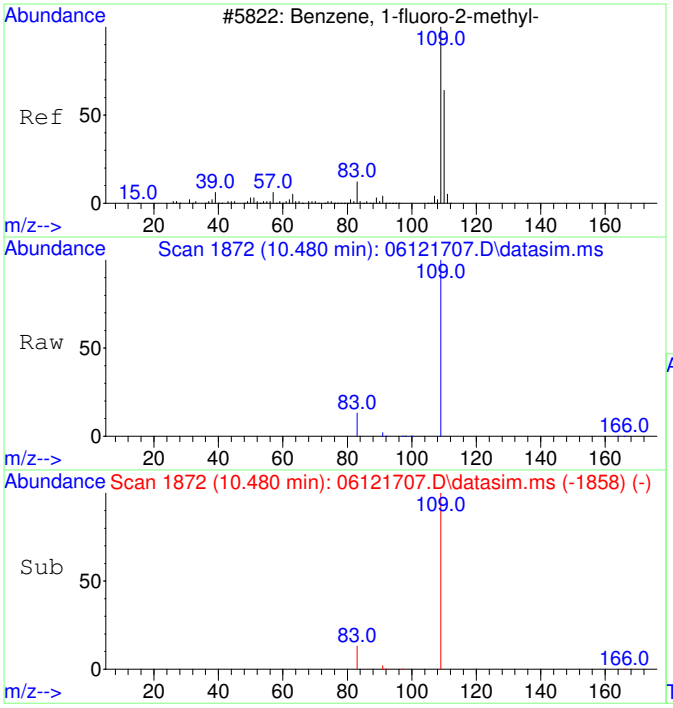
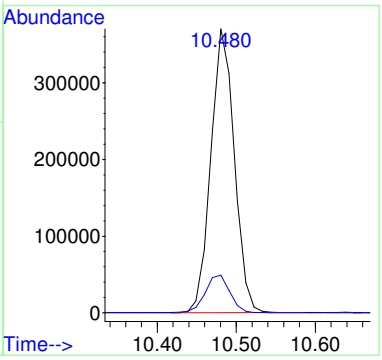
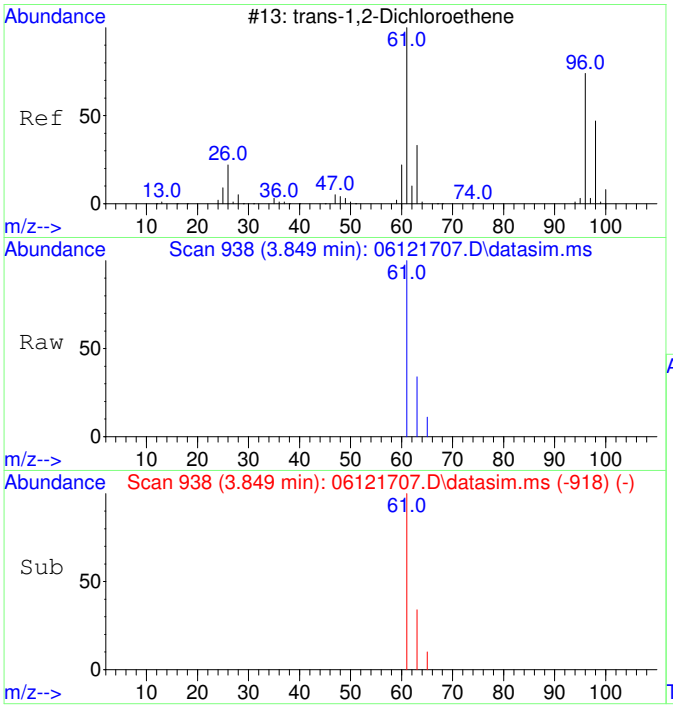


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion:109 Resp: 763871

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.4

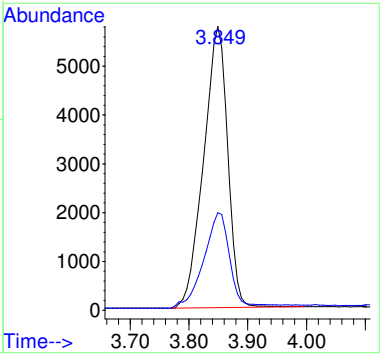


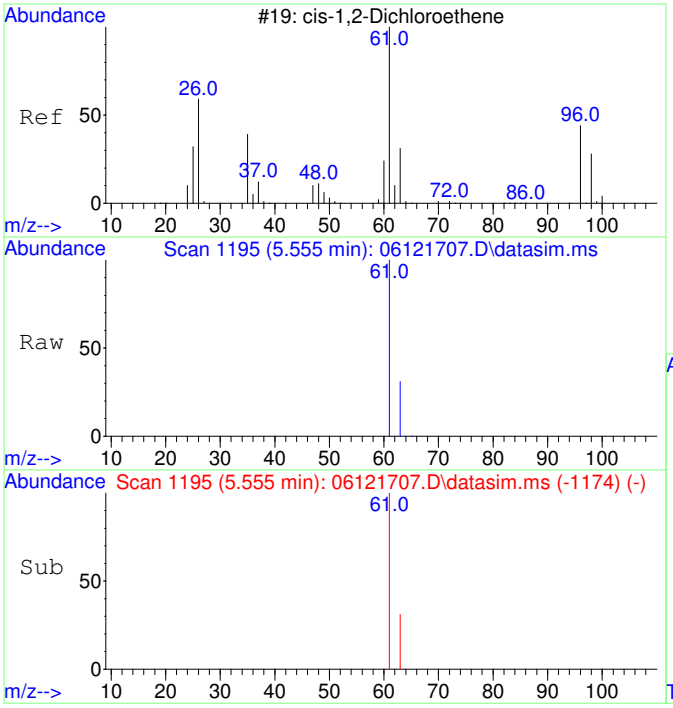


#3
trans-1,2-Dichloroethene
Concen: 250.83 ug/L
RT: 3.849 min Scan# 938
Delta R.T. -0.020 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 61 Resp: 16378

Ion	Ratio	Lower	Upper
61	100		
63	35.8	1.0	61.0

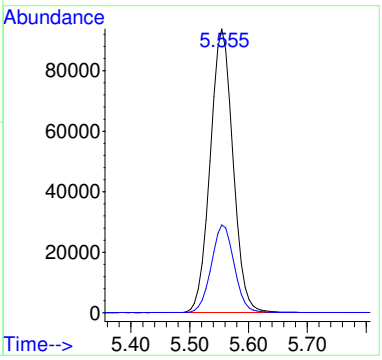


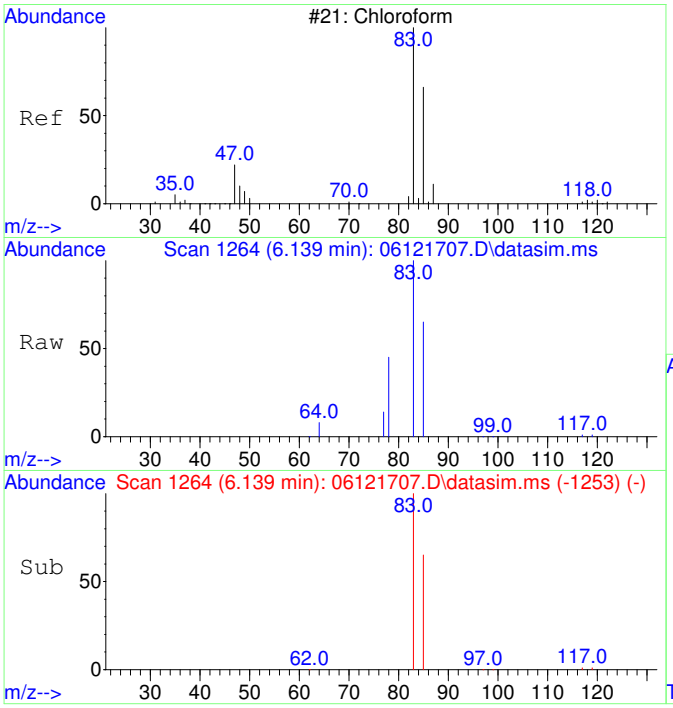


#5
cis-1,2-Dichloroethene
Concen: 3733.79 ug/L
RT: 5.555 min Scan# 1195
Delta R.T. -0.013 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 61 Resp: 251194

Ion	Ratio	Lower	Upper
61	100		
63	31.0	0.9	60.9

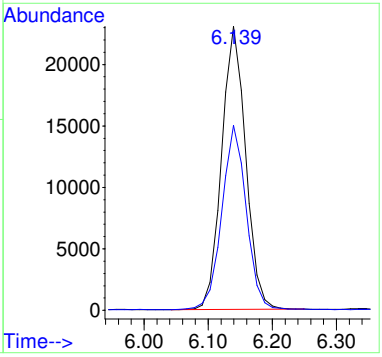


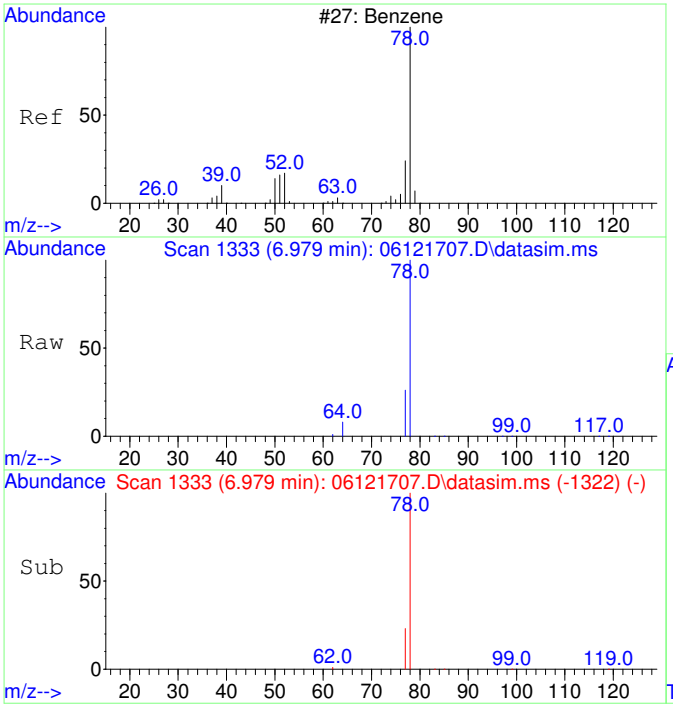


#6
Chloroform
Concen: 917.04 ug/L
RT: 6.139 min Scan# 1264
Delta R.T. -0.012 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 83 Resp: 59699

Ion	Ratio	Lower	Upper
83	100		
85	65.7	33.7	93.7

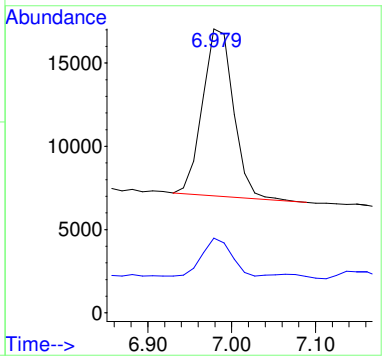


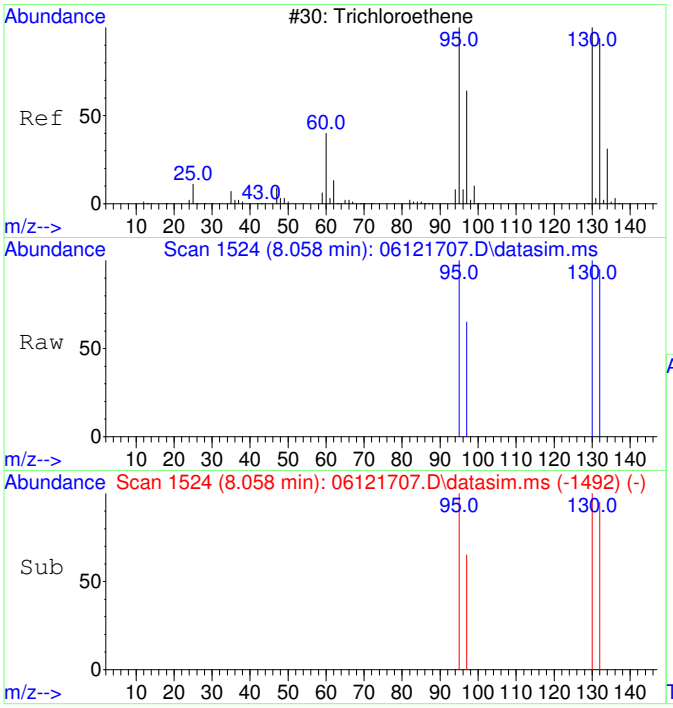


#9
Benzene
Concen: 168.43 ug/L
RT: 6.979 min Scan# 1333
Delta R.T. -0.012 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 78 Resp: 25535

Ion	Ratio	Lower	Upper
78	100		
77	21.3	0.0	53.0

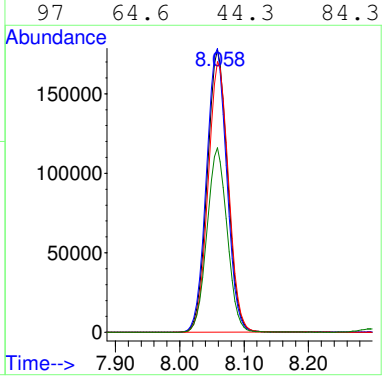


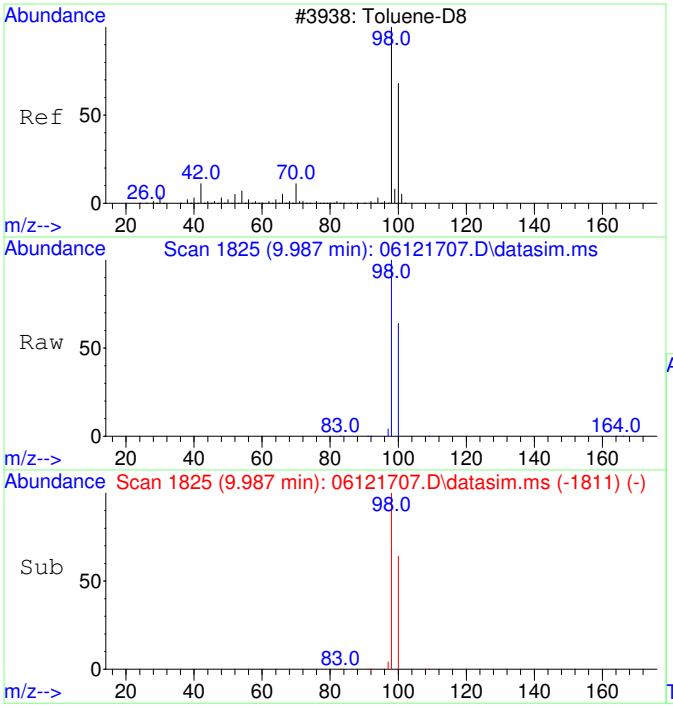


#11
Trichloroethene
Concen: 10033.56 ug/L
RT: 8.058 min Scan# 1524
Delta R.T. -0.005 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion:130 Resp: 391199

Ion	Ratio	Lower	Upper
130	100		
95	100.3	69.8	129.8
132	96.0	76.4	116.4
97	64.6	44.3	84.3

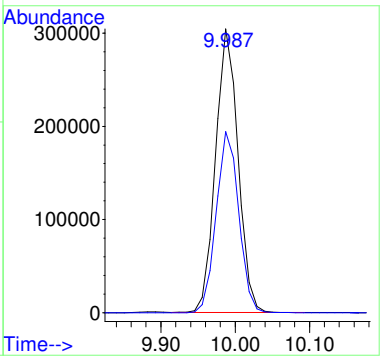


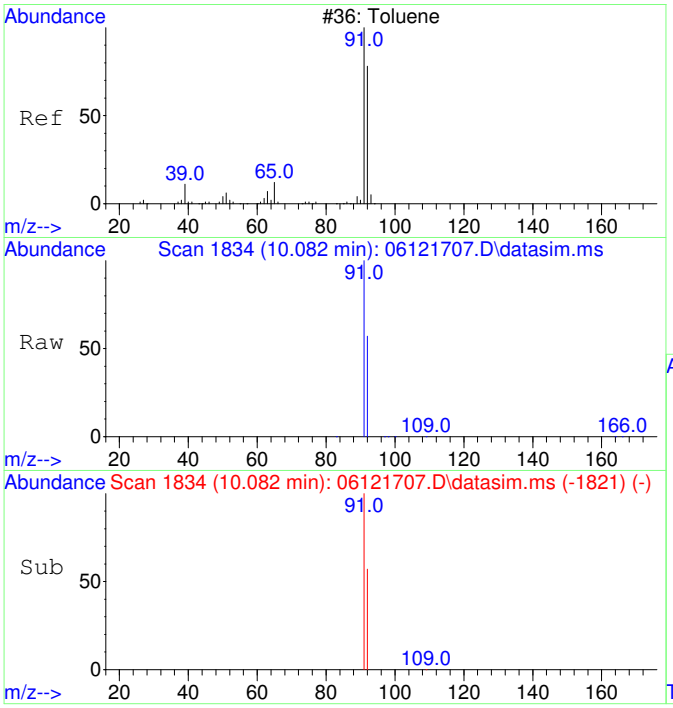


#12
Toluene-d8
Concen: 5079.50 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. 0.000 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 98 Resp: 635437

Ion	Ratio	Lower	Upper
98	100		
100	64.0	34.2	94.2

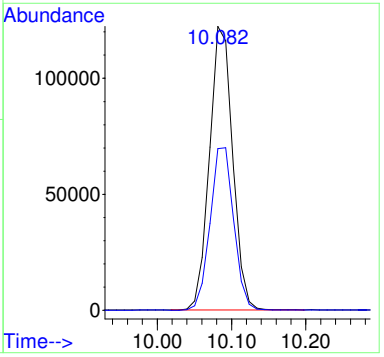


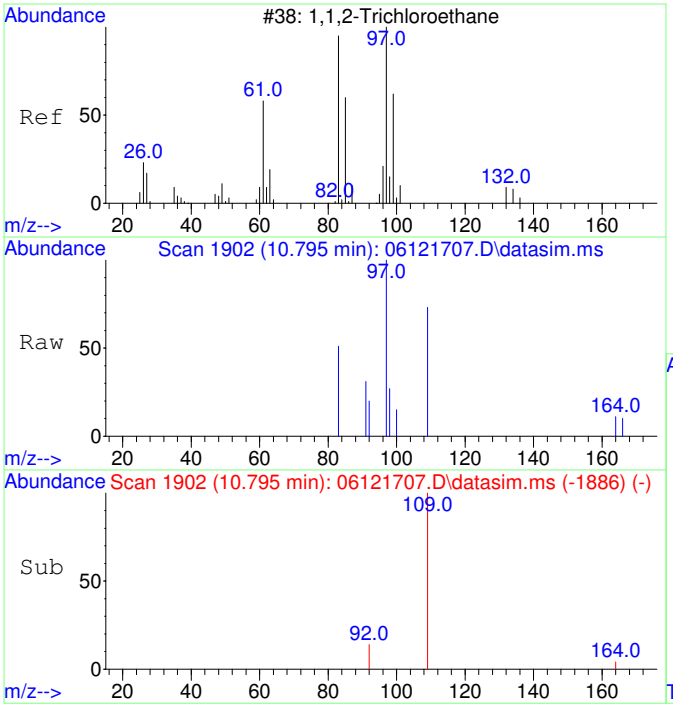


#13
Toluene
Concen: 1596.39 ug/L
RT: 10.082 min Scan# 1834
Delta R.T. -0.010 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 91 Resp: 264462

Ion	Ratio	Lower	Upper
91	100		
92	58.2	28.4	88.4

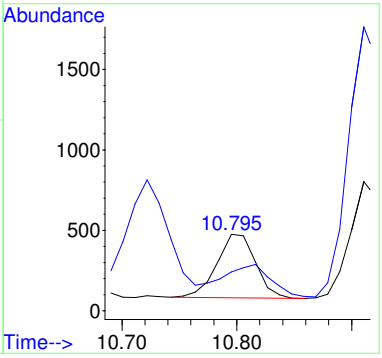


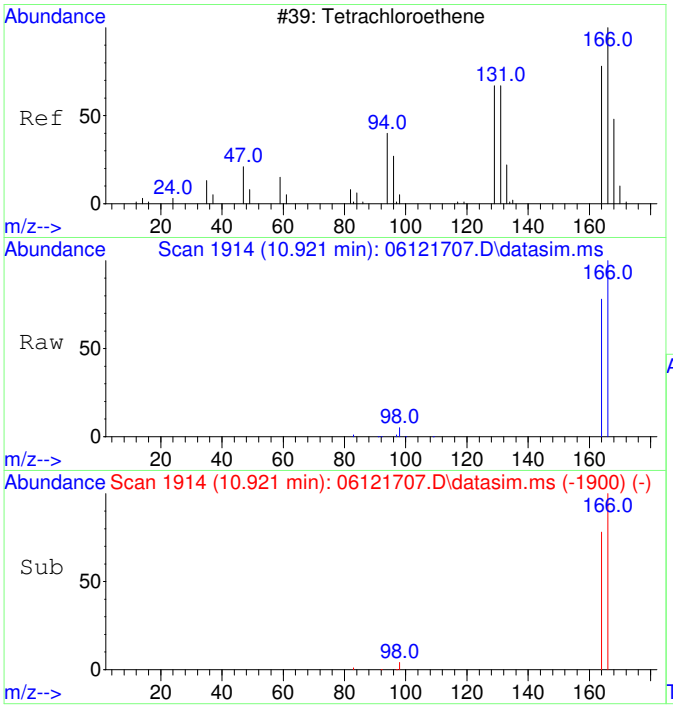


#14
1,1,2-Trichloroethane
Concen: 26.03 ug/L
RT: 10.795 min Scan# 1902
Delta R.T. 0.021 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 97 Resp: 922

Ion	Ratio	Lower	Upper
97	100		
83	0.0	54.5	114.5#

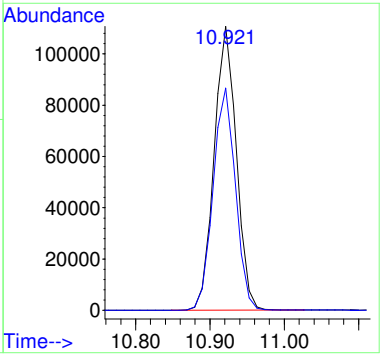


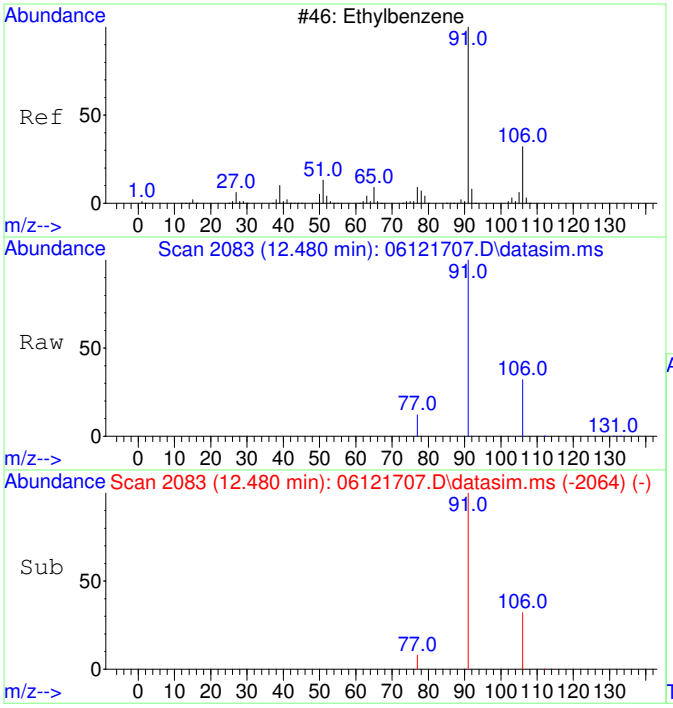


#15
Tetrachloroethene
Concen: 5381.35 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion:166 Resp: 228497

Ion	Ratio	Lower	Upper
166	100		
164	78.4	48.1	108.1

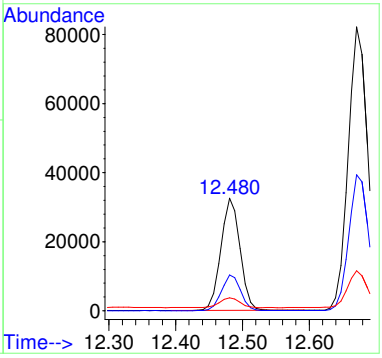


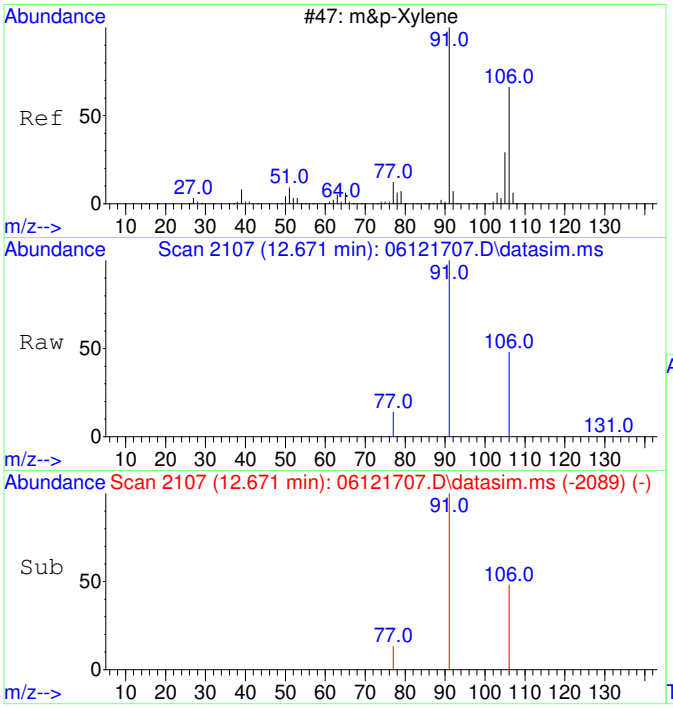


#18
Ethylbenzene
Concen: 361.46 ug/L
RT: 12.480 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 91 Resp: 64444

Ion	Ratio	Lower	Upper
91	100		
106	31.6	1.2	61.2
77	9.1	0.0	38.6

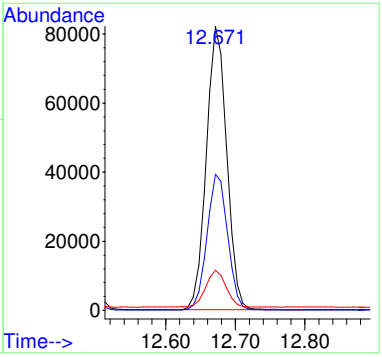


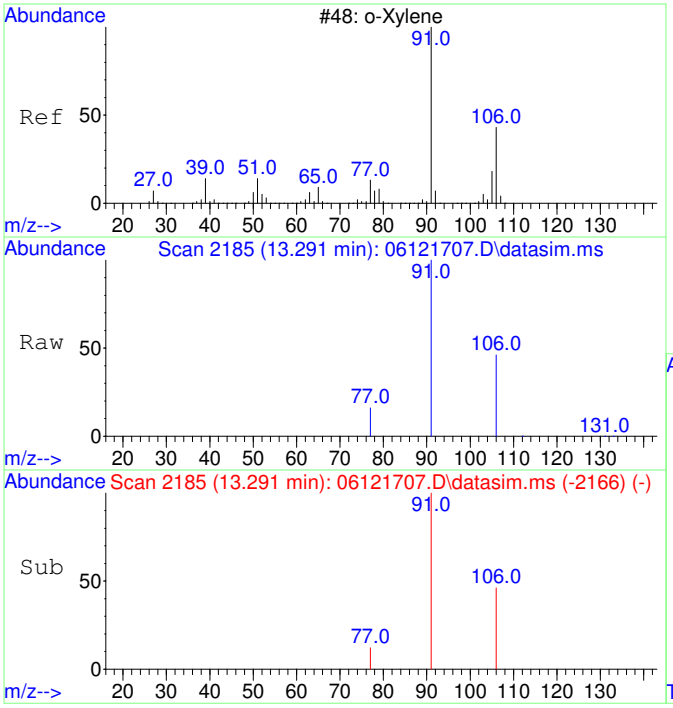


#19
m&p-Xylene
Concen: 1195.13 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 91 Resp: 167154

Ion	Ratio	Lower	Upper
91	100		
106	48.4	18.4	78.4
77	12.7	0.0	43.1

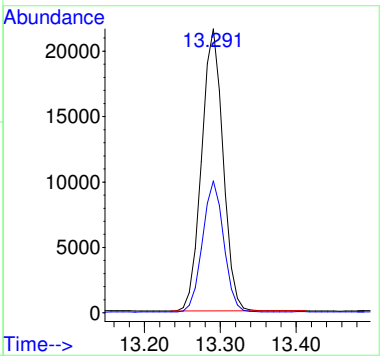


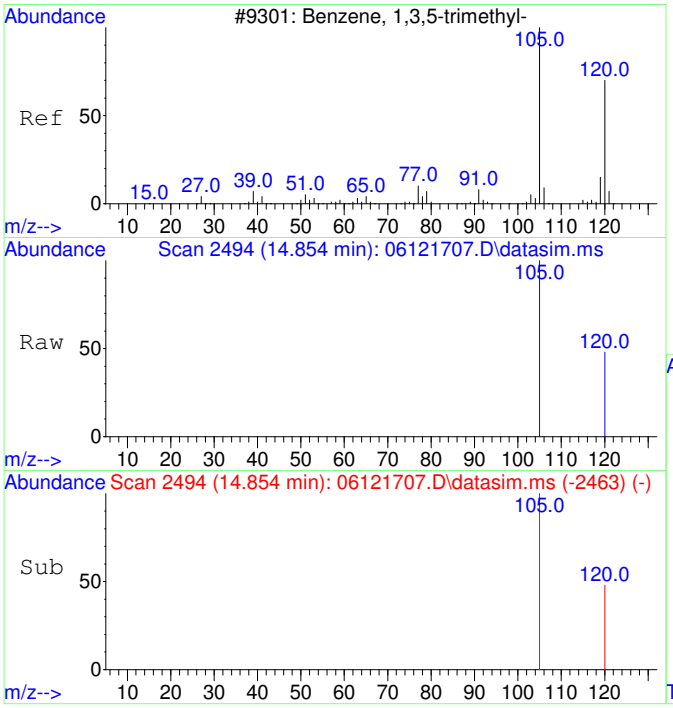


#20
o-Xylene
Concen: 292.94 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 91 Resp: 42373

Ion	Ratio	Lower	Upper
91	100		
106	45.7	16.0	76.0

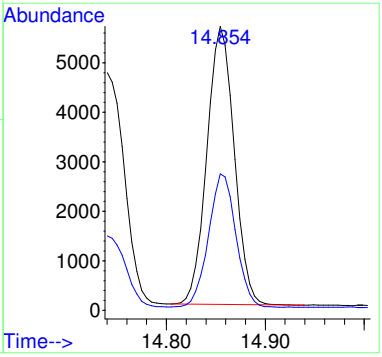


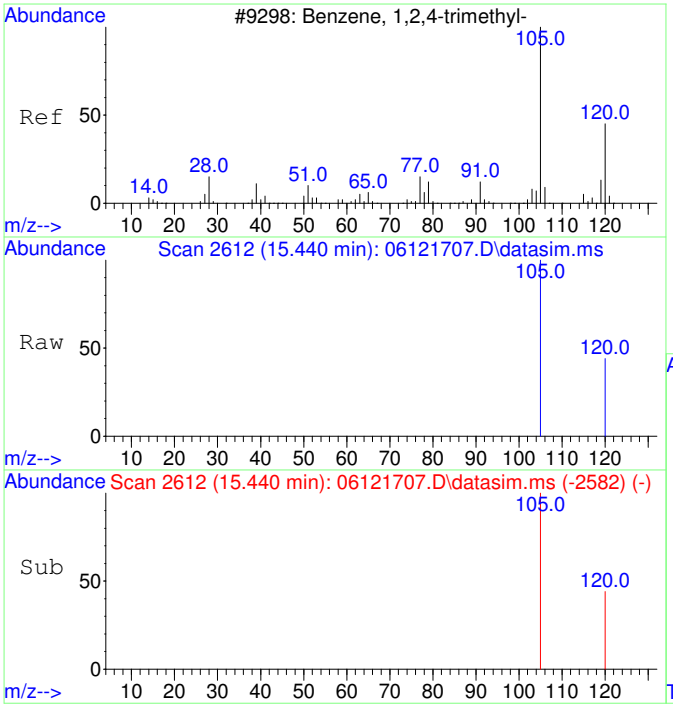


#22
1,3,5-Trimethylbenzene
Concen: 75.28 ug/L
RT: 14.854 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion:105 Resp: 10752

Ion	Ratio	Lower	Upper
105	100		
120	47.6	18.0	78.0

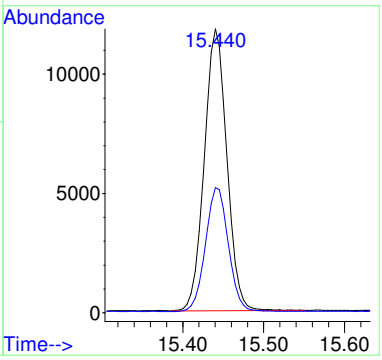


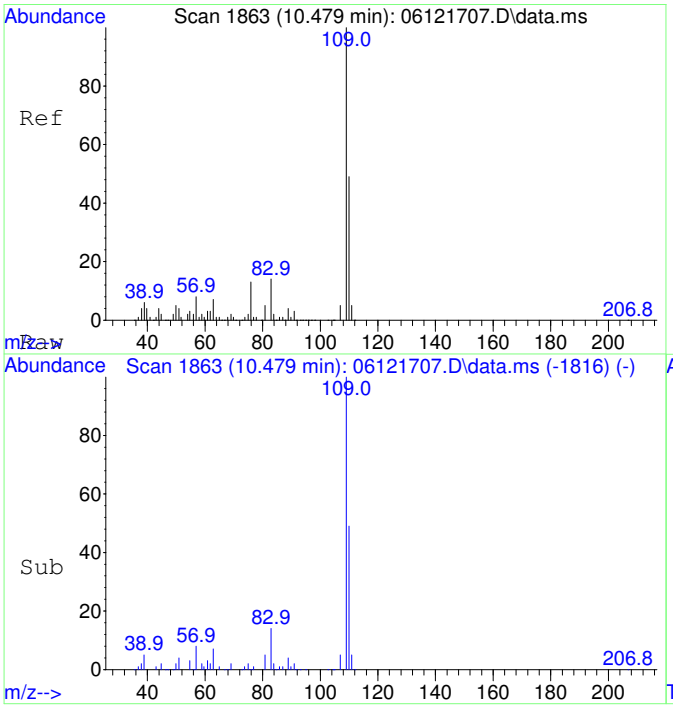


#23
1,2,4-Trimethylbenzene
Concen: 156.17 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion:105 Resp: 22866

Ion	Ratio	Lower	Upper
105	100		
120	44.5	14.4	74.4

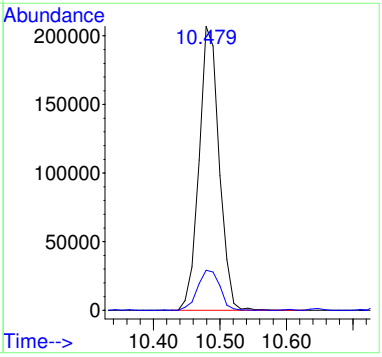


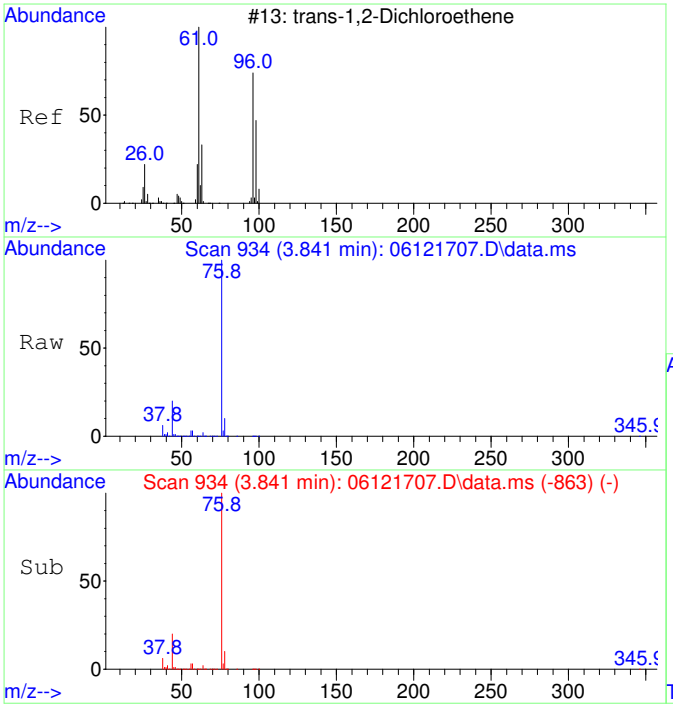


#25
2-Fluorotoluene SCAN
Concen: 4702.03 ug/L
RT: 10.479 min Scan# 1863
Delta R.T. -0.011 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion:109 Resp: 435474

Ion	Ratio	Lower	Upper
109	100		
83	15.8	0.0	46.1

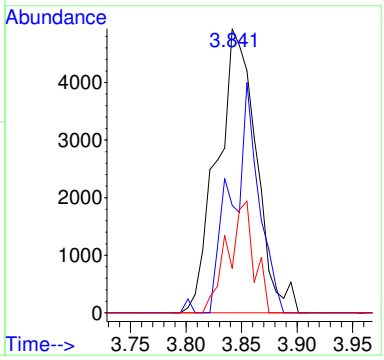


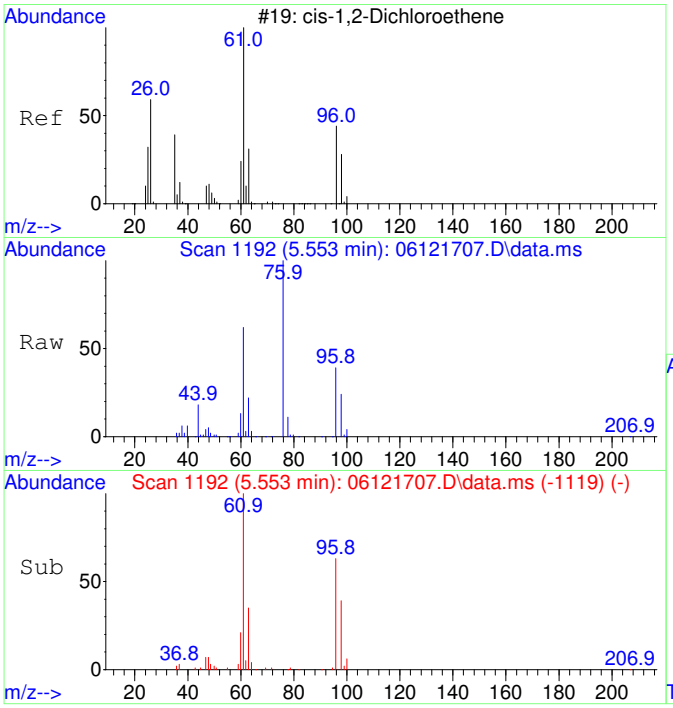


#27
trans-1,2-Dichloroethene SCAN
Concen: 290.31 ug/L
RT: 3.841 min Scan# 934
Delta R.T. -0.027 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 61 Resp: 12073

Ion	Ratio	Lower	Upper
61	100		
96	55.5	26.1	86.1
98	26.6	4.4	64.4

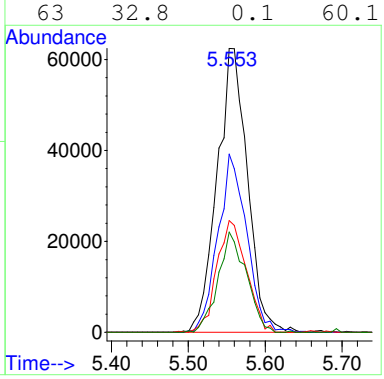


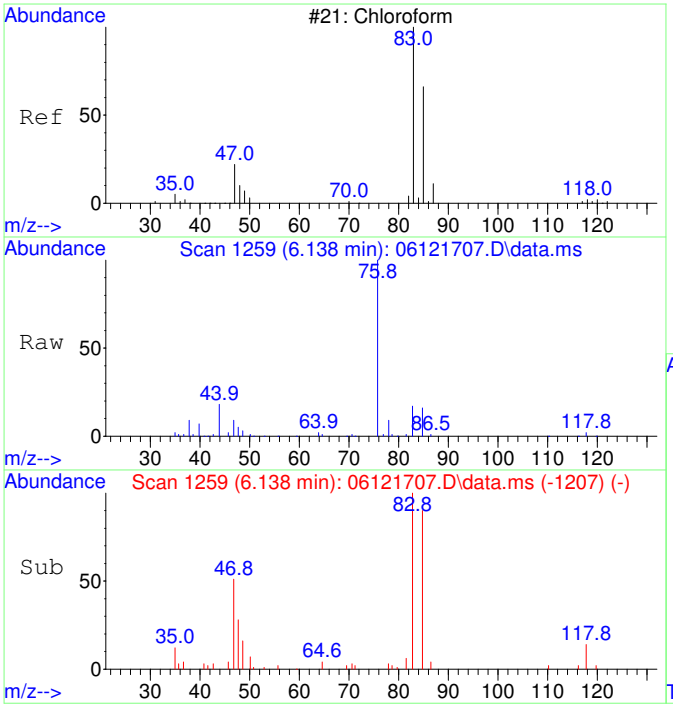


#29
cis-1,2-Dichloroethene SCAN
Concen: 3564.08 ug/L
RT: 5.553 min Scan# 1192
Delta R.T. -0.013 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 61 Resp: 170979

Ion	Ratio	Lower	Upper
61	100		
96	59.6	17.5	77.5
98	38.5	1.9	61.9
63	32.8	0.1	60.1

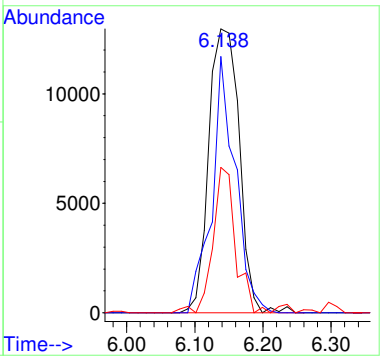


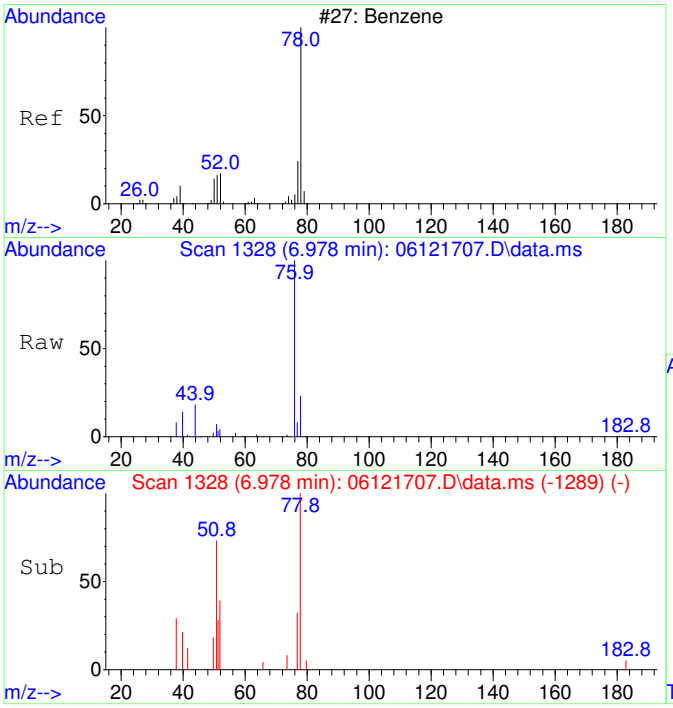


#30
Chloroform SCAN
Concen: 932.22 ug/L
RT: 6.138 min Scan# 1259
Delta R.T. -0.012 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 83 Resp: 40327

Ion	Ratio	Lower	Upper
83	100		
85	69.6	31.2	91.2
47	37.9	3.2	63.2

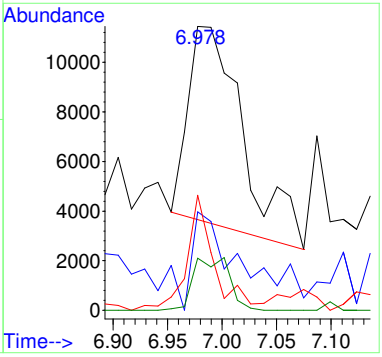


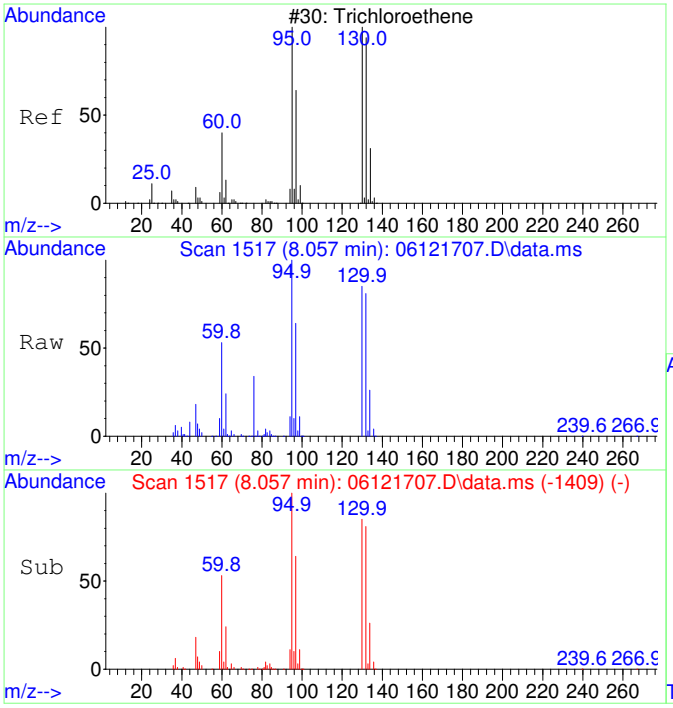


#33
Benzene SCAN
Concen: 278.16 ug/L
RT: 6.978 min Scan# 1328
Delta R.T. -0.024 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 78 Resp: 27272

Ion	Ratio	Lower	Upper
78	100		
77	33.9	0.0	55.2
51	26.1	0.0	52.4
52	0.0	0.0	53.3

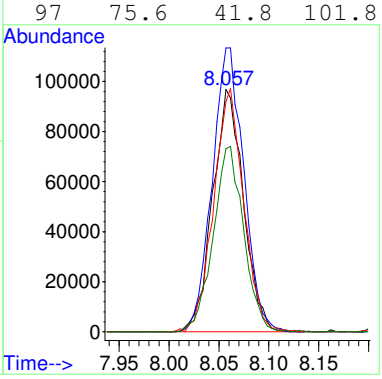


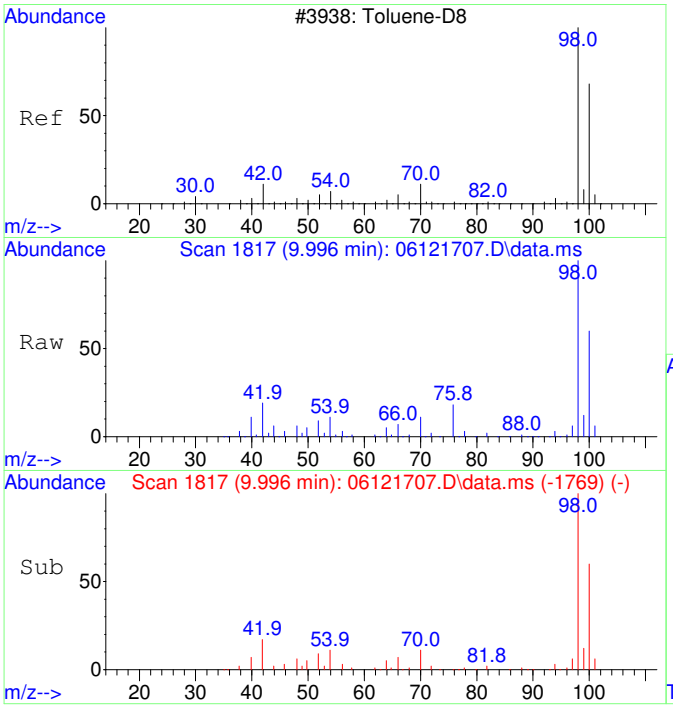


#35
Trichloroethene SCAN
Concen: 9154.50 ug/L
RT: 8.057 min Scan# 1517
Delta R.T. -0.005 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion:130 Resp: 207851

Ion	Ratio	Lower	Upper
130	100		
95	120.0	76.1	136.1
132	97.3	65.6	125.6
97	75.6	41.8	101.8

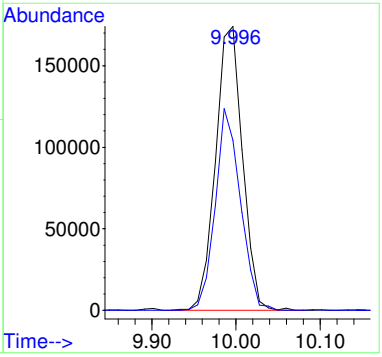


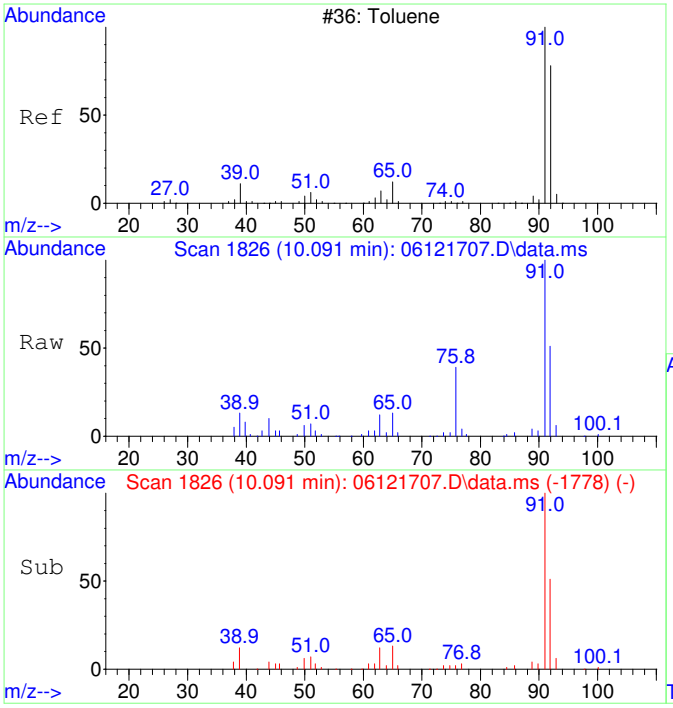


#36
Toluene-d8 SCAN
Concen: 5072.98 ug/L
RT: 9.996 min Scan# 1817
Delta R.T. 0.000 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 98 Resp: 387755

Ion	Ratio	Lower	Upper
98	100		
100	66.2	36.2	96.2

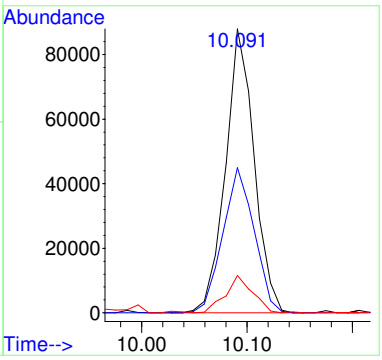


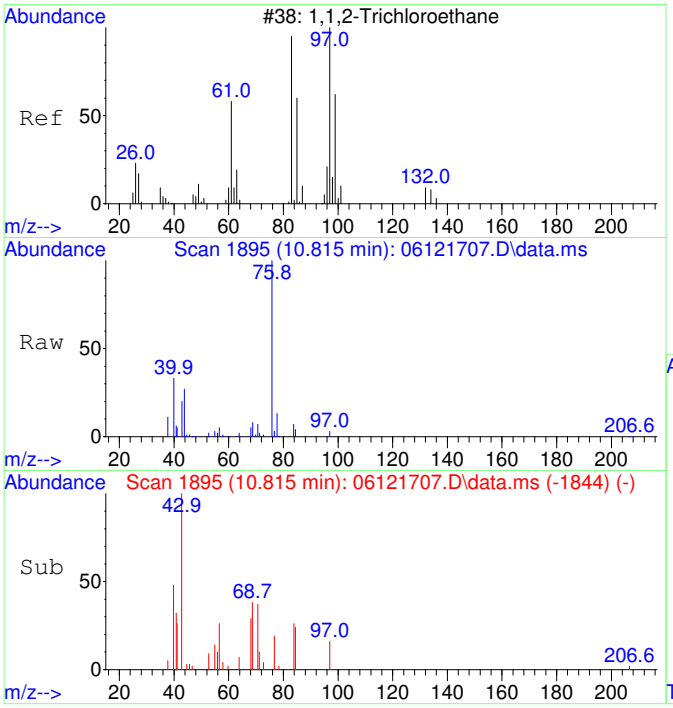


#37
Toluene SCAN
Concen: 1636.06 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 91 Resp: 166791

Ion	Ratio	Lower	Upper
91	100		
92	55.8	29.2	89.2
65	12.5	0.0	44.3

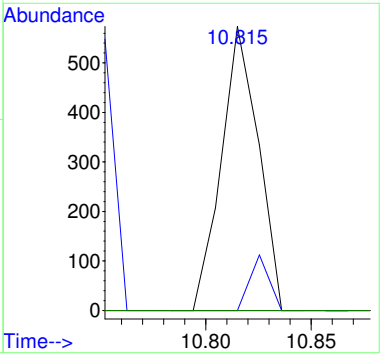


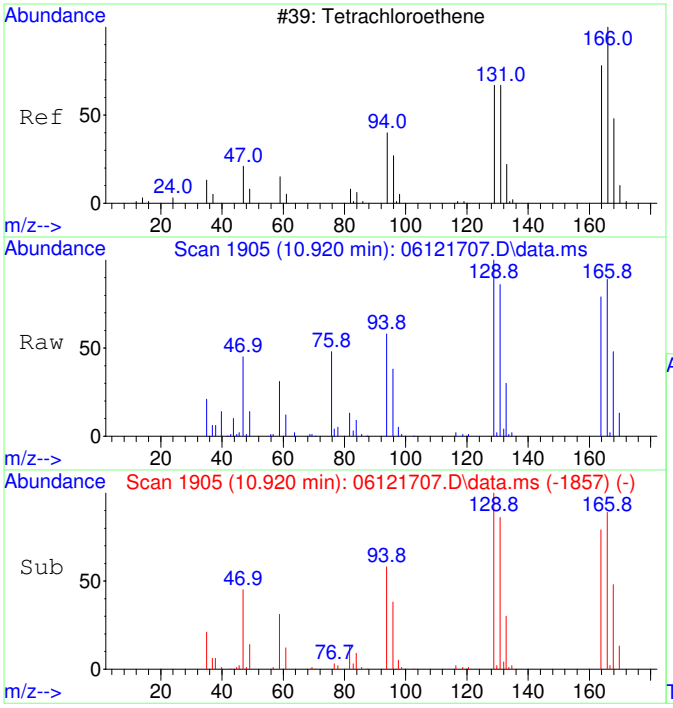


#38
1,1,2-Trichloroethane SCAN
Concen: 30.57 ug/L
RT: 10.815 min Scan# 1895
Delta R.T. 0.031 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 97 Resp: 702

Ion	Ratio	Lower	Upper
97	100		
83	10.1	57.8	117.8#
61	0.0	48.6	108.6#
99	0.0	32.7	92.7#

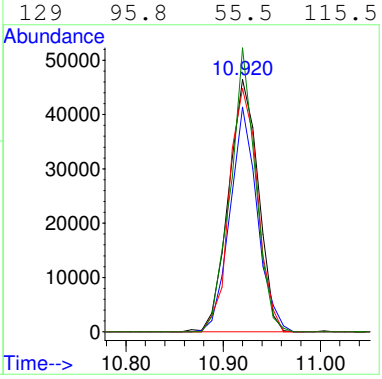


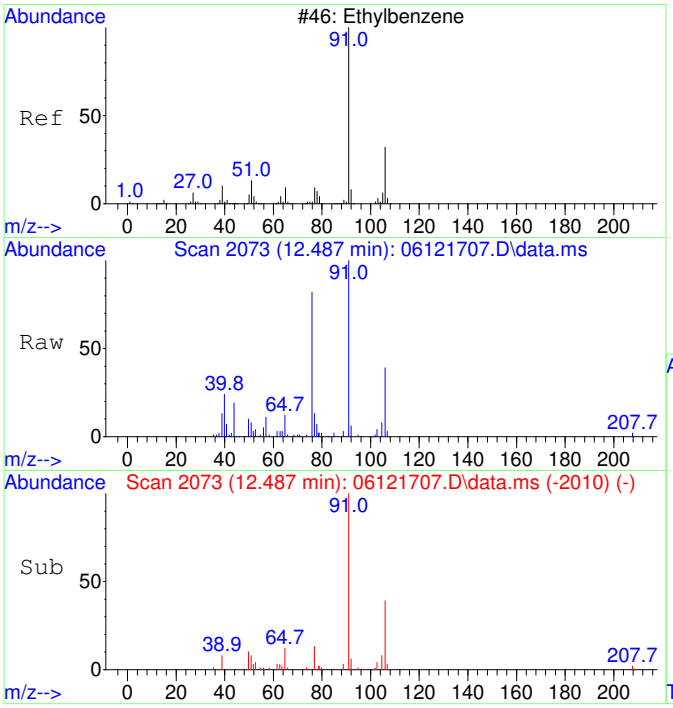


#39
Tetrachloroethene SCAN
Concen: 4700.20 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion:166 Resp: 98234

Ion	Ratio	Lower	Upper
166	100		
164	81.9	45.7	105.7
131	92.4	44.8	104.8
129	95.8	55.5	115.5

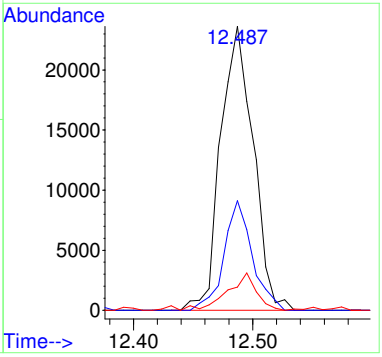


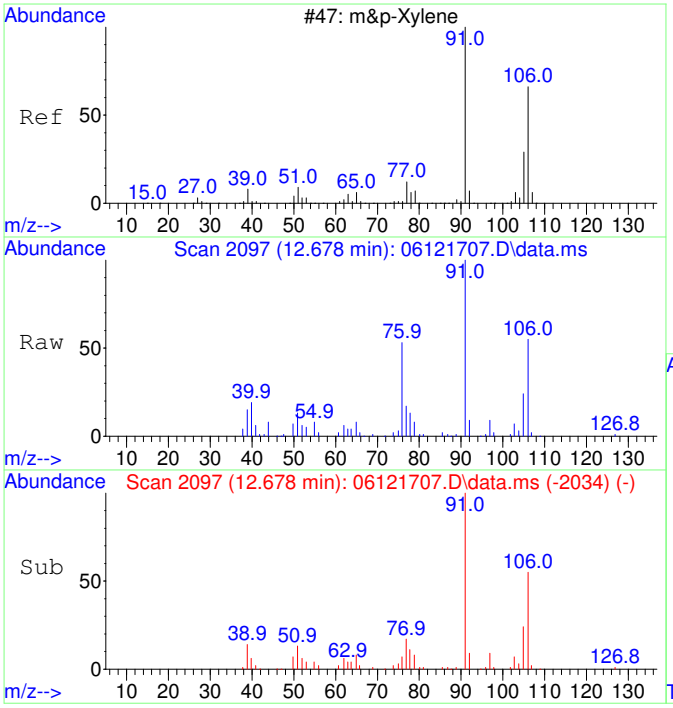


#42
Ethylbenzene SCAN
Concen: 395.24 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. 0.000 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 91 Resp: 45117

Ion	Ratio	Lower	Upper
91	100		
106	33.5	0.0	59.8
51	11.6	0.0	45.5

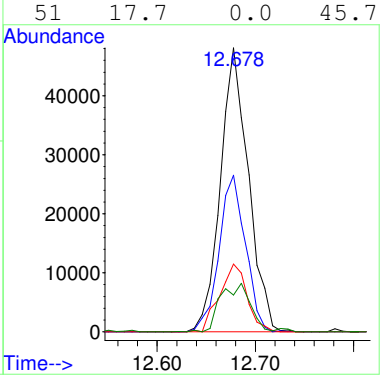


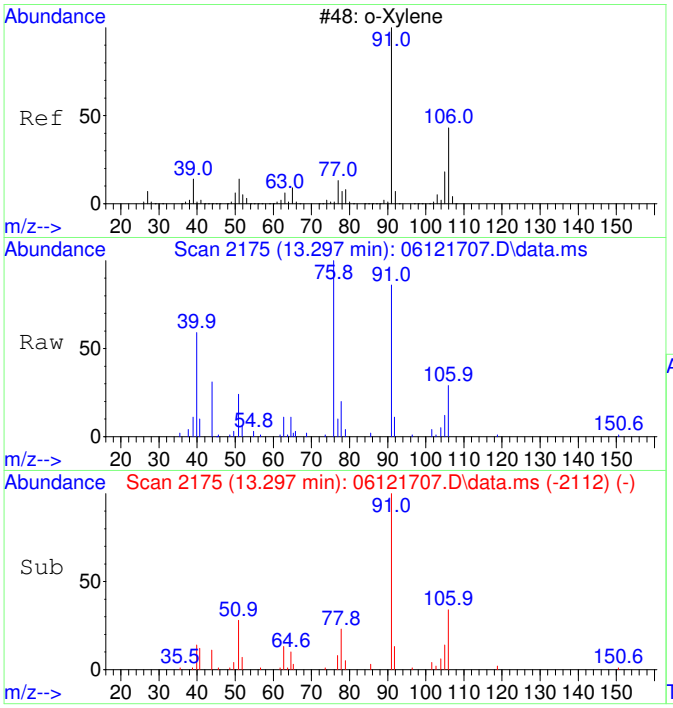


#43
m&p-Xylene SCAN
Concen: 534.92 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 91 Resp: 95337

Ion	Ratio	Lower	Upper
91	100		
106	51.9	18.5	78.5
105	23.5	0.0	51.3
51	17.7	0.0	45.7

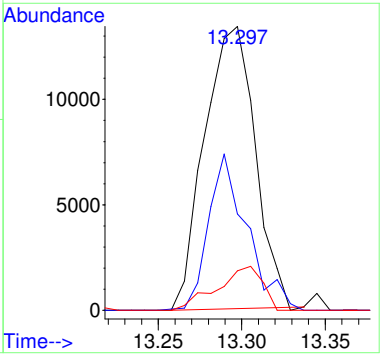


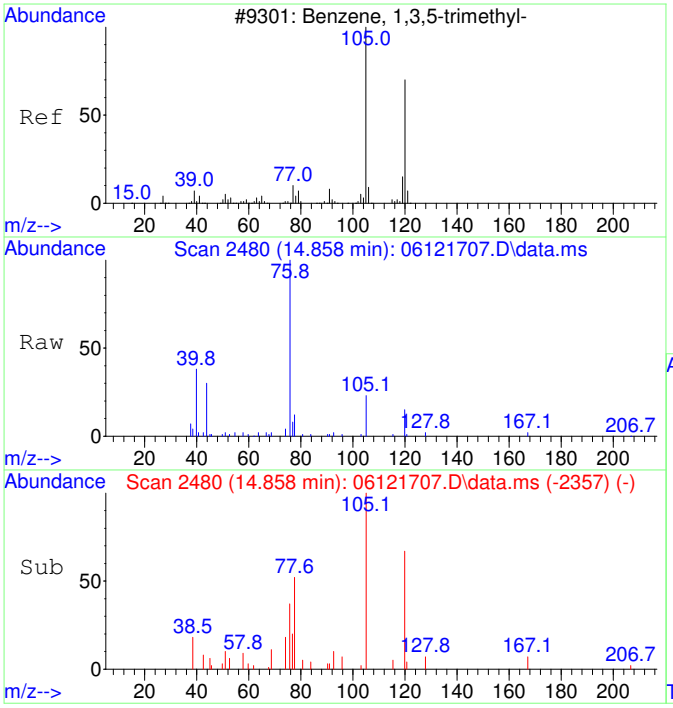


#44
o-Xylene SCAN
Concen: 308.92 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. 0.000 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion: 91 Resp: 28352

Ion	Ratio	Lower	Upper
91	100		
106	42.0	15.5	75.5
105	13.9	0.0	54.1

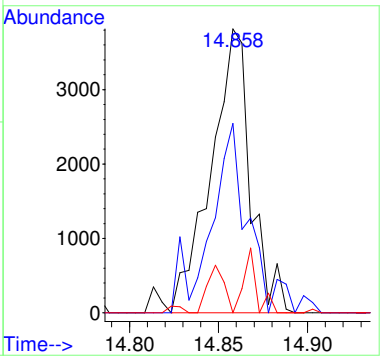


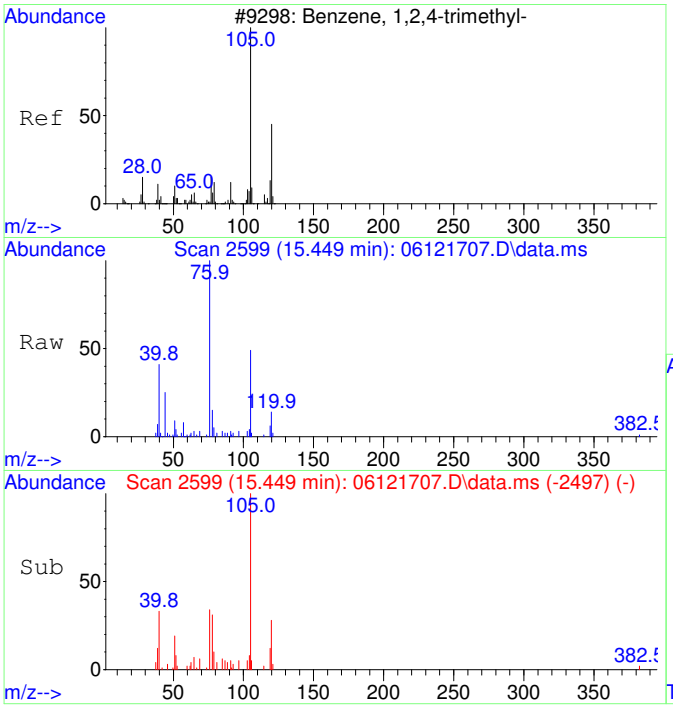


#46
1,3,5-Trimethylbenzene SCAN
Concen: 67.93 ug/L
RT: 14.858 min Scan# 2480
Delta R.T. 0.001 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion:105 Resp: 5914

Ion	Ratio	Lower	Upper
105	100		
120	49.6	17.3	77.3
119	7.4	0.0	42.7

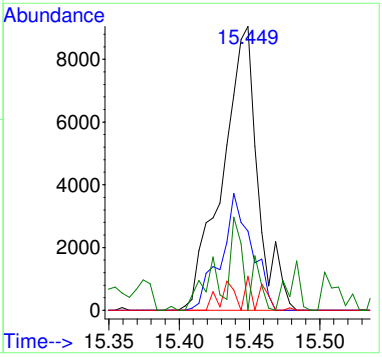




#47
1,2,4-Trimethylbenzene SCAN
Concen: 174.60 ug/L
RT: 15.449 min Scan# 2599
Delta R.T. 0.006 min
Lab File: 06121707.D
Acq: 12 Jun 2017 14:08

Tgt Ion:105 Resp: 15840

Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.9	72.9#
119	2.0	0.0	40.5
77	0.0	0.0	43.3



1706012-04RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121708.D
Acq On : 12 Jun 2017 14:32
InstName : AG5975C
Operator : RH
Sample : 1706012-04RE1
Misc : 100 UL - 1 ML
ALS Vial : 7 Sample Multiplier: 10

Quant Time: Jun 13 11:03:11 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

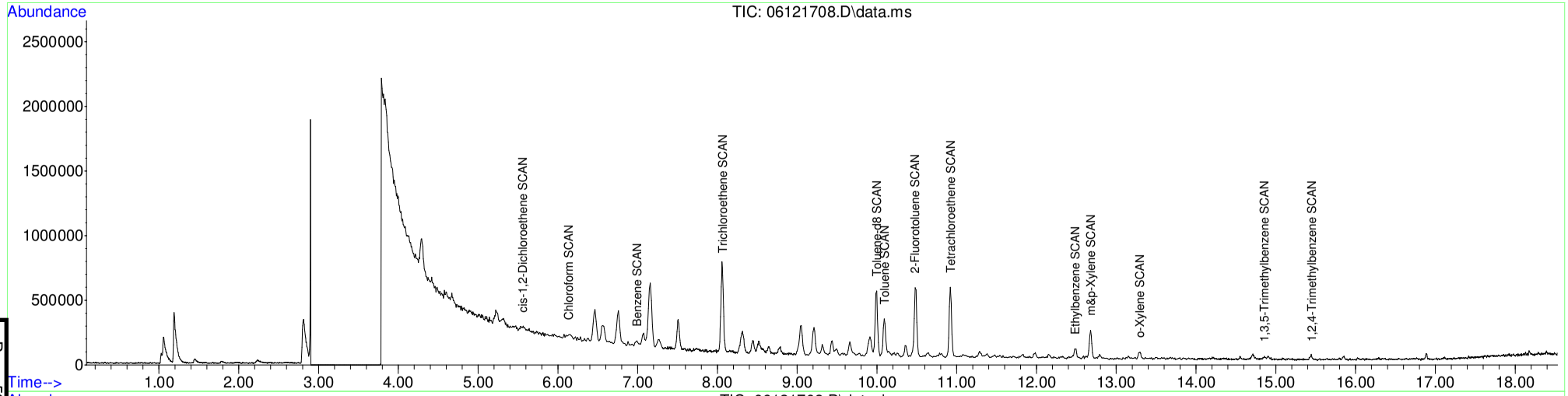
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.480	109	729992	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	610887	5109.89 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 102.20%		
Target Compounds					Qvalue
3] trans-1,2-Dichloroethene	3.843	61	3773	60.47 ug/L	59
5] cis-1,2-Dichloroethene	5.555	61	31125	484.12 ug/L	100
6] Chloroform	6.140	83	33074	531.63 ug/L	94
9] Benzene	6.979	78	37060	255.80 ug/L	97
11] Trichloroethene	8.058	130	424347	11388.87 ug/L	100
13] Toluene	10.082	91	380953	2406.29 ug/L	100
14] 1,1,2-Trichloroethane	10.806	97	1041	30.75 ug/L #	47
15] Tetrachloroethene	10.921	166	327325	8066.63 ug/L	100
18] Ethylbenzene	12.481	91	86721	508.98 ug/L	100
19] m&p-Xylene	12.671	91	221006	1653.50 ug/L	100
20] o-Xylene	13.291	91	58001	419.59 ug/L	100
22] 1,3,5-Trimethylbenzene	14.854	105	15743	115.35 ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	34816	248.83 ug/L	99
25) 2-Fluorotoluene SCAN	10.479	109	419204	4736.42 ug/L	99
29) cis-1,2-Dichloroethene...	5.560	61	19587	427.24 ug/L	80
30) Chloroform SCAN	6.138	83	22607	546.85 ug/L #	27
33) Benzene SCAN	6.990	78	42669	455.40 ug/L	88
35) Trichloroethene SCAN	8.062	130	232429	10712.10 ug/L	97
36) Toluene-d8 SCAN	9.996	98	376347	5152.24 ug/L	93
37) Toluene SCAN	10.091	91	251514	2581.62 ug/L	96
39) Tetrachloroethene SCAN	10.920	166	161710	8096.42 ug/L	94
42) Ethylbenzene SCAN	12.487	91	60793	557.28 ug/L	95
43) m&p-Xylene SCAN	12.678	91	139062	816.47 ug/L	97
44) o-Xylene SCAN	13.297	91	38935	443.92 ug/L	94
46) 1,3,5-Trimethylbenzene...	14.858	105	11749	141.22 ug/L	63
47) 1,2,4-Trimethylbenzene...	15.449	105	21464	247.58 ug/L	93

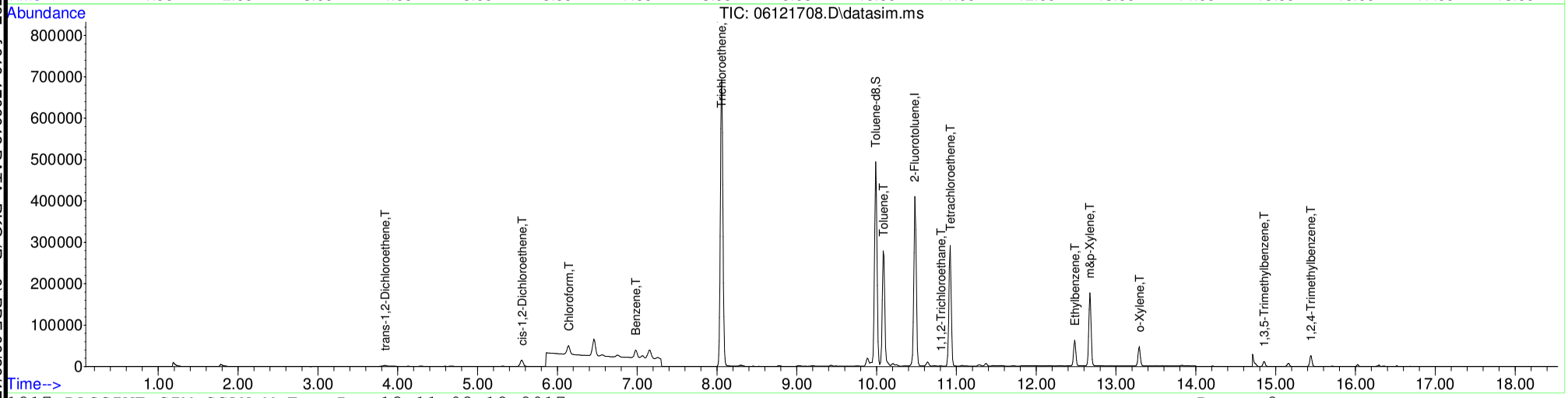
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121708.D
Acq On : 12 Jun 2017 14:32
InstName : AG5975C
Operator : RH
Sample : 1706012-04RE1
Misc : 100 UL - 1 ML
ALS Vial : 7 Sample Multiplier: 10

Quant Time: Jun 13 11:03:11 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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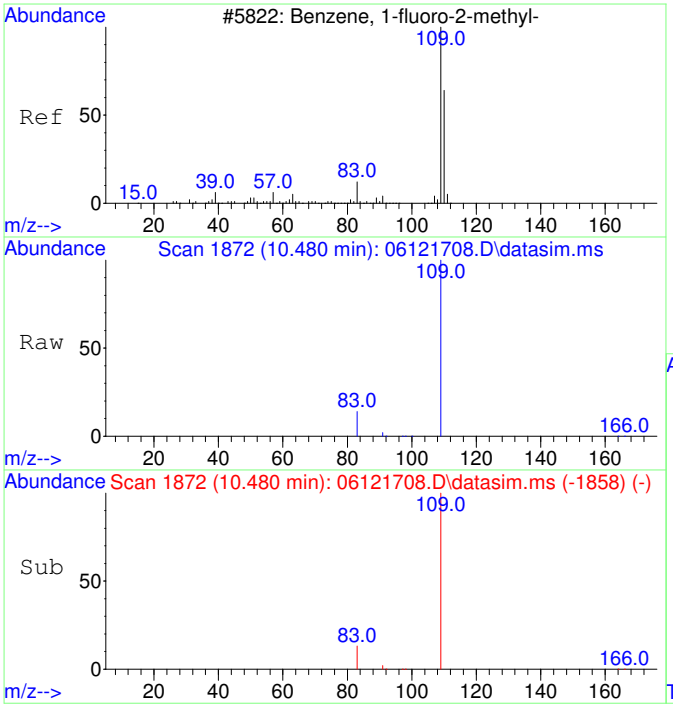
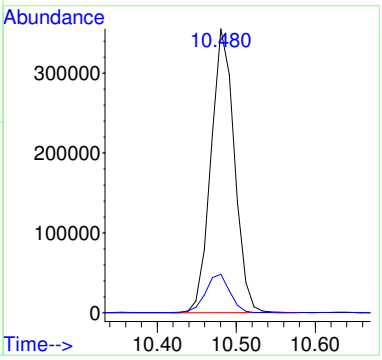
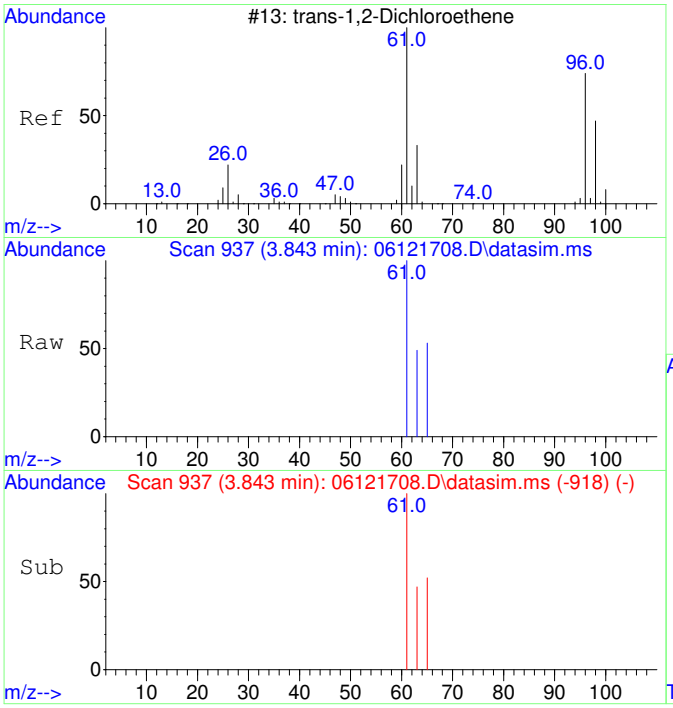


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion:109 Resp: 729992

Ion	Ratio	Lower	Upper
109	100		
83	13.8	0.0	44.4

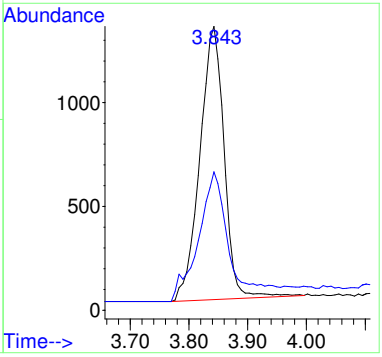


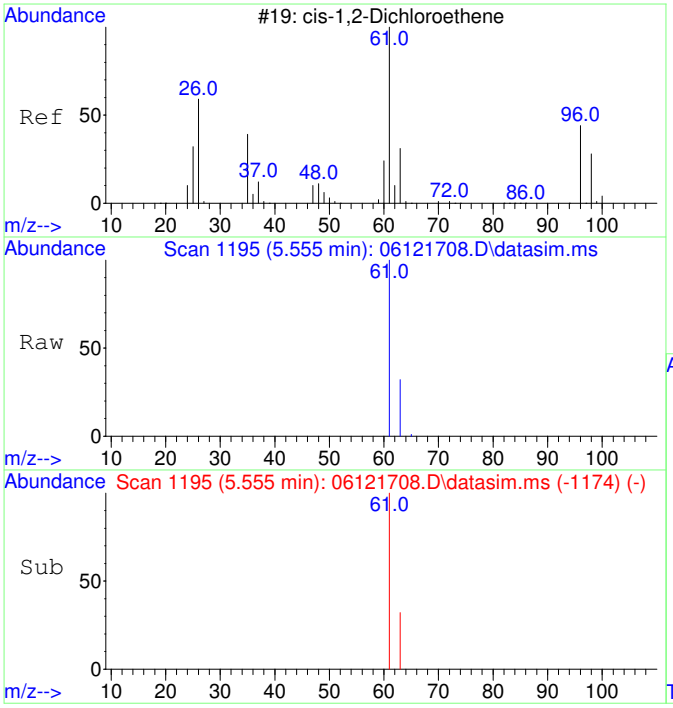


#3
trans-1,2-Dichloroethene
Concen: 60.47 ug/L
RT: 3.843 min Scan# 937
Delta R.T. -0.026 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 61 Resp: 3773

Ion	Ratio	Lower	Upper
61	100		
63	53.6	1.0	61.0

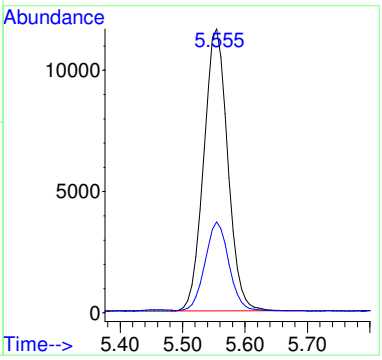


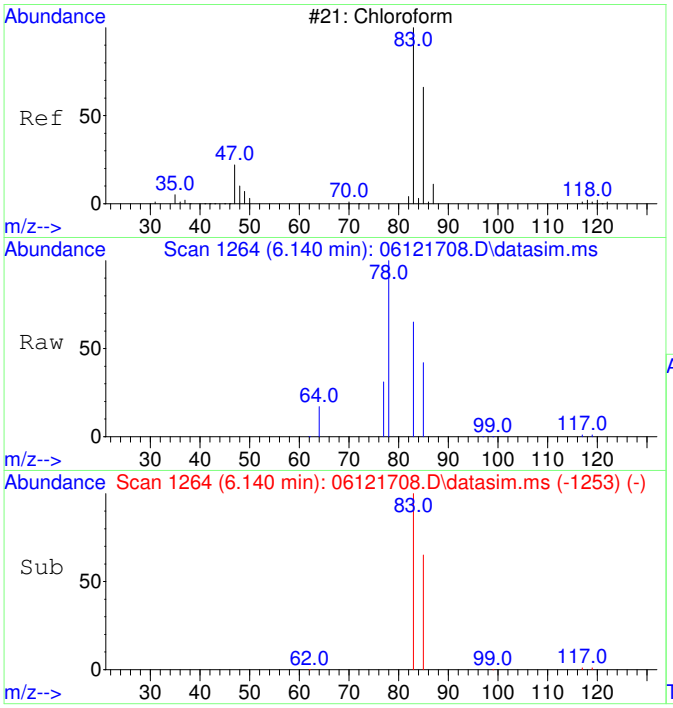


#5
cis-1,2-Dichloroethene
Concen: 484.12 ug/L
RT: 5.555 min Scan# 1195
Delta R.T. -0.013 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 61 Resp: 31125

Ion	Ratio	Lower	Upper
61	100		
63	31.1	0.9	60.9

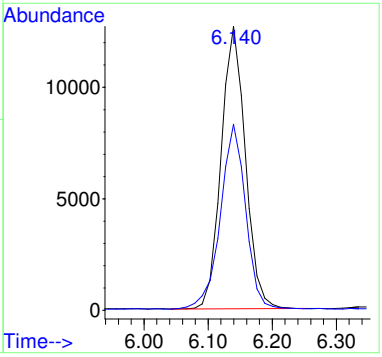


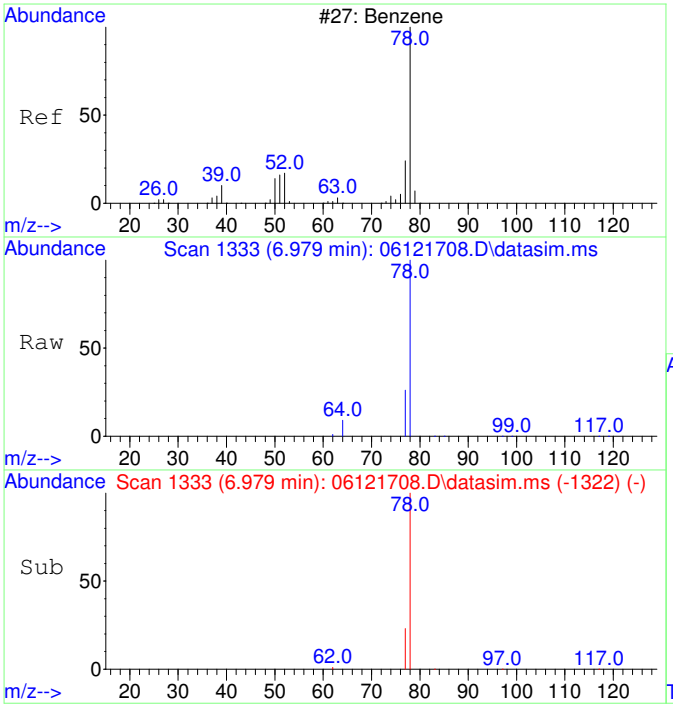


#6
Chloroform
Concen: 531.63 ug/L
RT: 6.140 min Scan# 1264
Delta R.T. -0.012 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 83 Resp: 33074

Ion	Ratio	Lower	Upper
83	100		
85	68.1	33.7	93.7

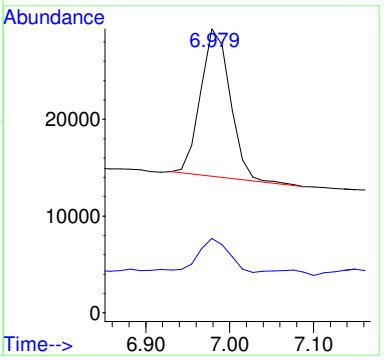


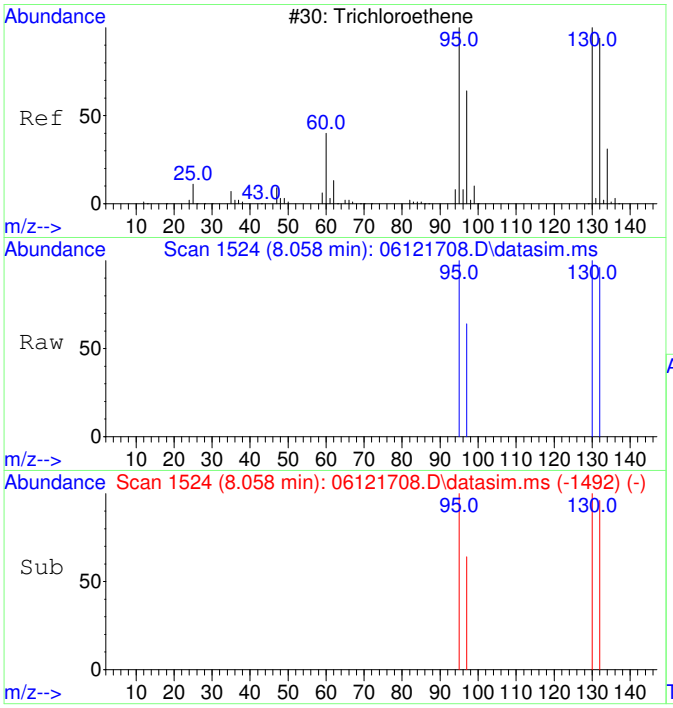


#9
Benzene
Concen: 255.80 ug/L
RT: 6.979 min Scan# 1333
Delta R.T. -0.012 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 78 Resp: 37060

Ion	Ratio	Lower	Upper
78	100		
77	21.5	0.0	53.0

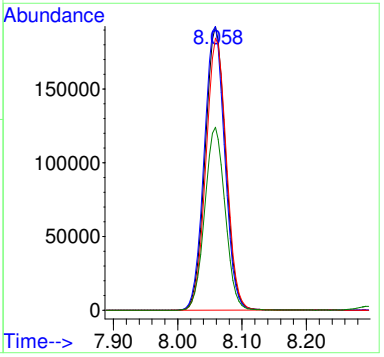


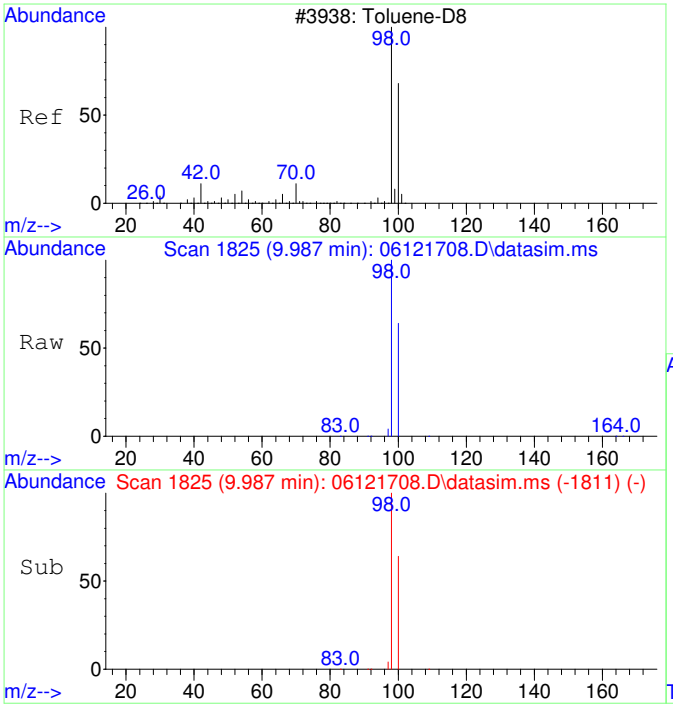


#11
Trichloroethene
Concen: 11388.87 ug/L
RT: 8.058 min Scan# 1524
Delta R.T. -0.005 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion:130 Resp: 424347

Ion	Ratio	Lower	Upper
130	100		
95	100.4	69.8	129.8
132	96.1	76.4	116.4
97	64.4	44.3	84.3

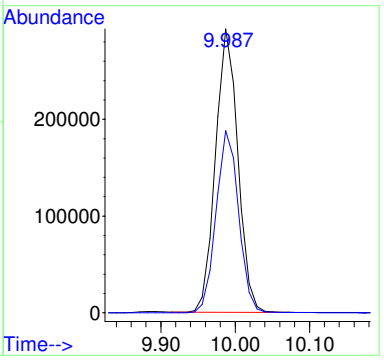


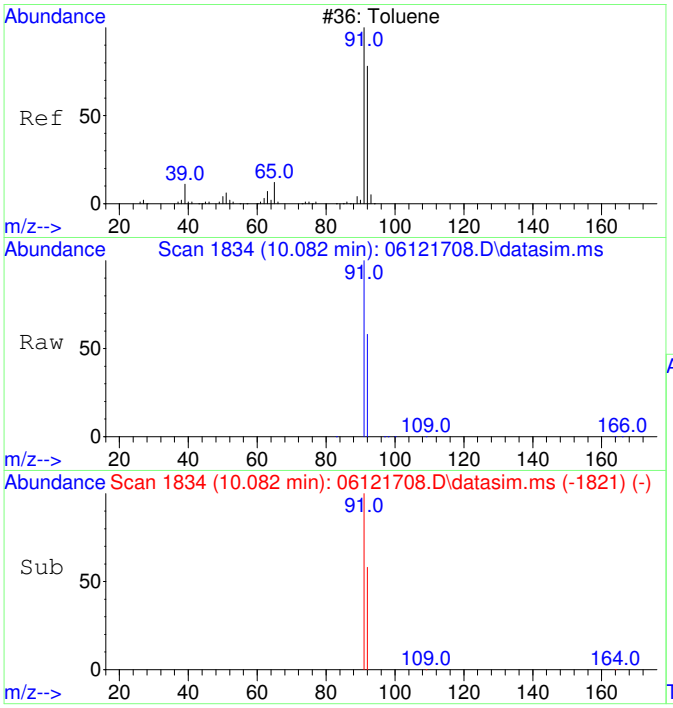


#12
Toluene-d8
Concen: 5109.89 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. 0.000 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 98 Resp: 610887

Ion	Ratio	Lower	Upper
98	100		
100	64.2	34.2	94.2

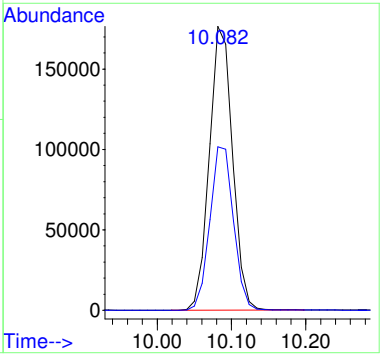


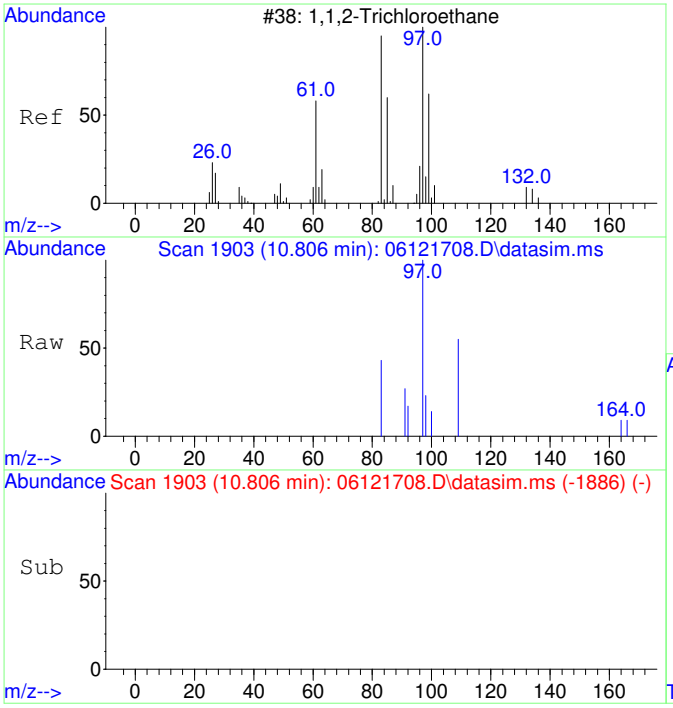


#13
Toluene
Concen: 2406.29 ug/L
RT: 10.082 min Scan# 1834
Delta R.T. -0.010 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 91 Resp: 380953

Ion	Ratio	Lower	Upper
91	100		
92	58.4	28.4	88.4

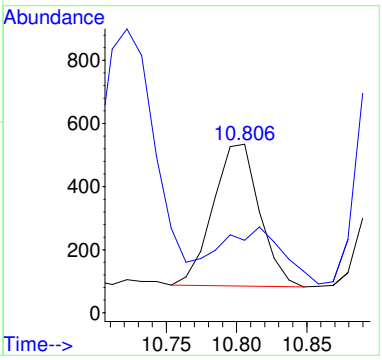


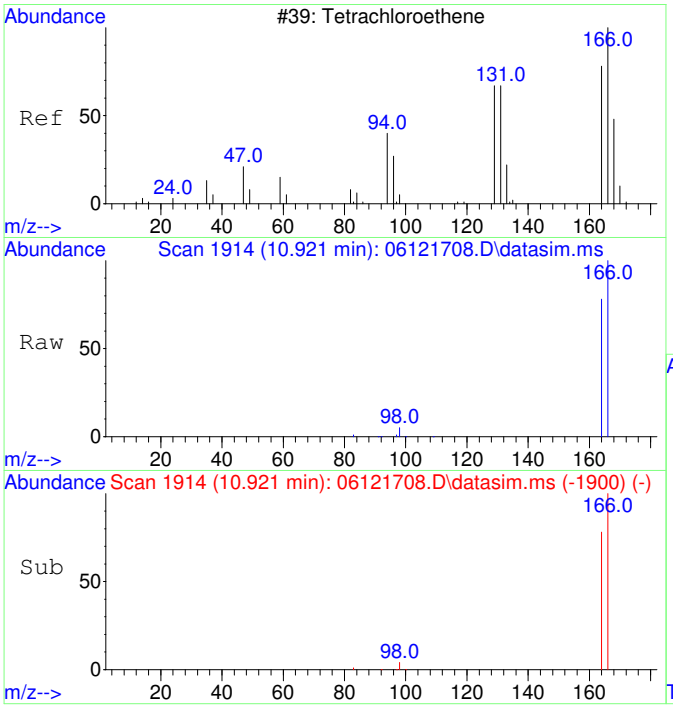


#14
1,1,2-Trichloroethane
Concen: 30.75 ug/L
RT: 10.806 min Scan# 1903
Delta R.T. 0.032 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 97 Resp: 1041

Ion	Ratio	Lower	Upper
97	100		
83	36.5	54.5	114.5#

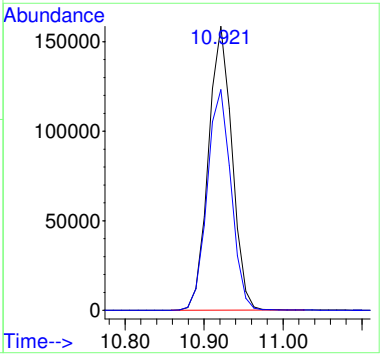


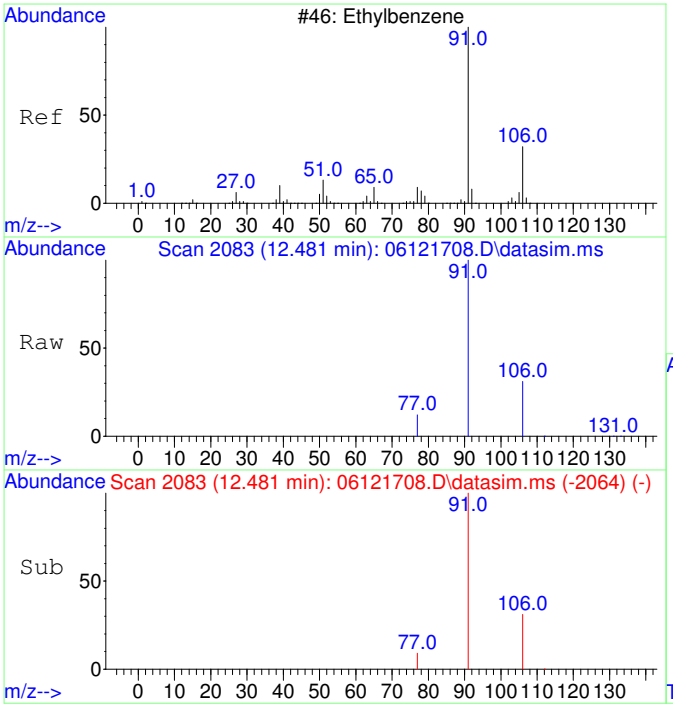


#15
Tetrachloroethene
Concen: 8066.63 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion:166 Resp: 327325

Ion	Ratio	Lower	Upper
166	100		
164	78.2	48.1	108.1

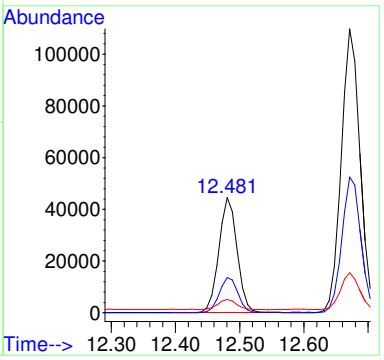


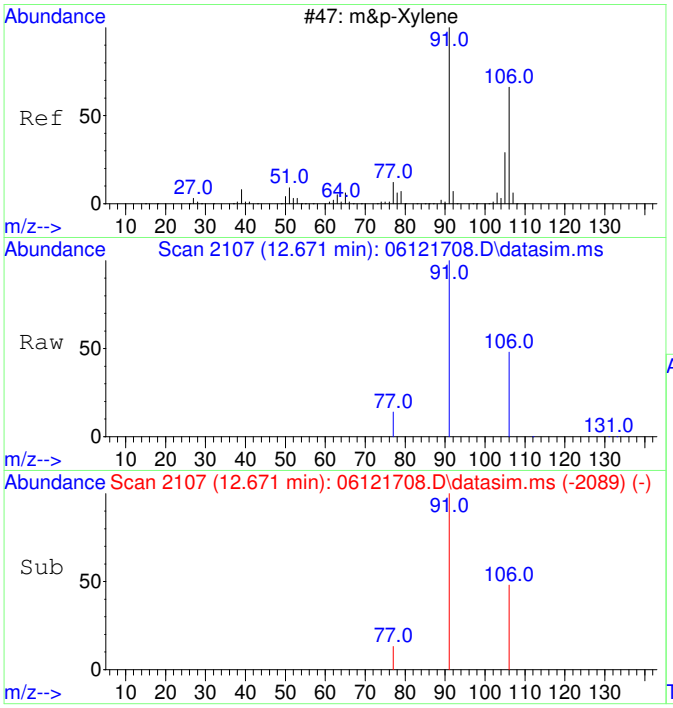


#18
Ethylbenzene
Concen: 508.98 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 91 Resp: 86721

Ion	Ratio	Lower	Upper
91	100		
106	31.2	1.2	61.2
77	8.8	0.0	38.6

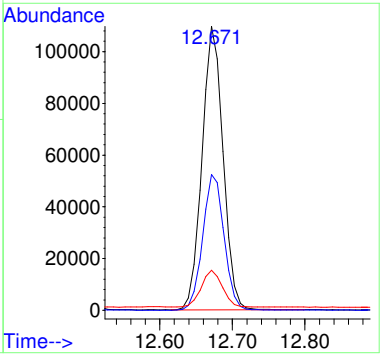


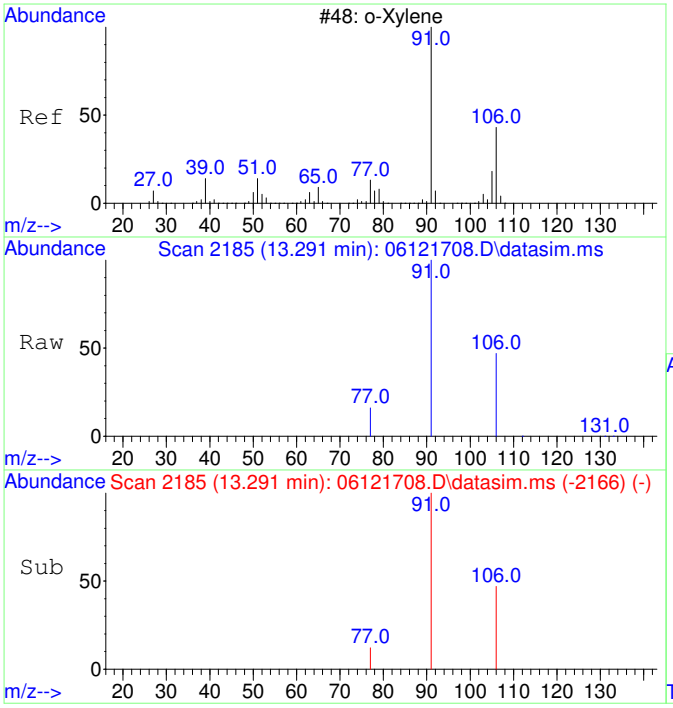


#19
m&p-Xylene
Concen: 1653.50 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 91 Resp: 221006

Ion	Ratio	Lower	Upper
91	100		
106	48.4	18.4	78.4
77	12.8	0.0	43.1

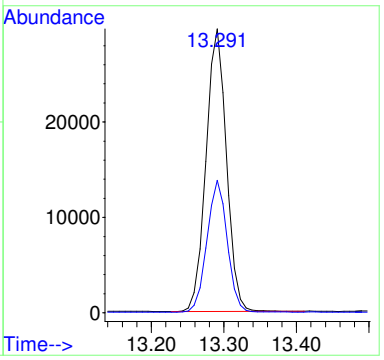


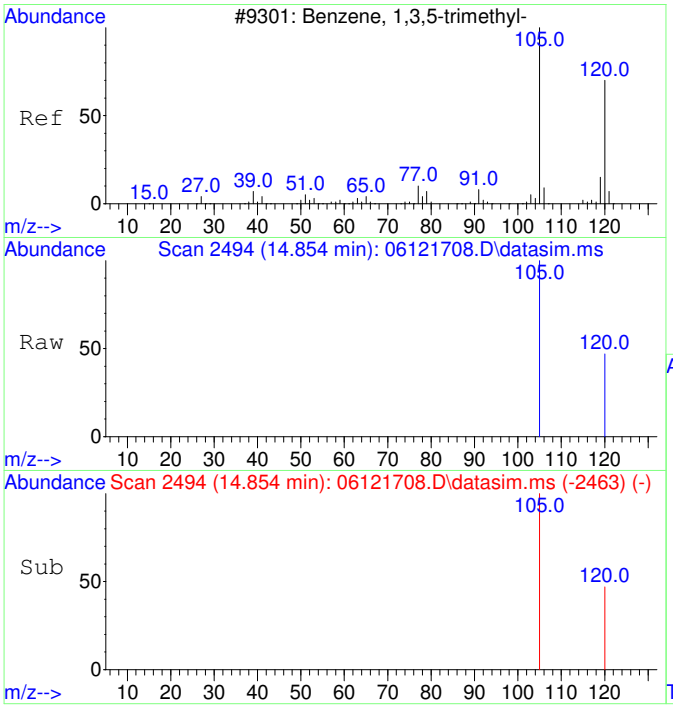


#20
o-Xylene
Concen: 419.59 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 91 Resp: 58001

Ion	Ratio	Lower	Upper
91	100		
106	46.0	16.0	76.0

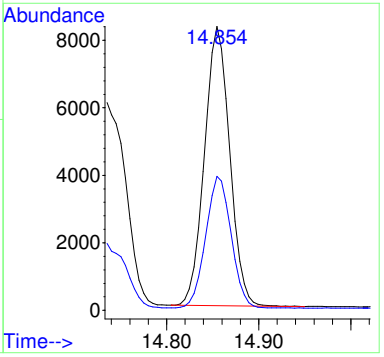


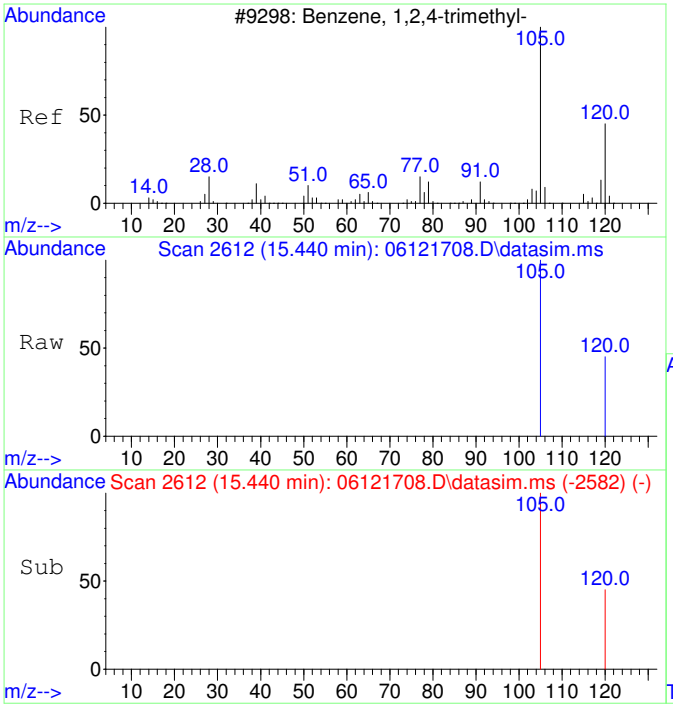


#22
1,3,5-Trimethylbenzene
Concen: 115.35 ug/L
RT: 14.854 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion:105 Resp: 15743

Ion	Ratio	Lower	Upper
105	100		
120	47.4	18.0	78.0

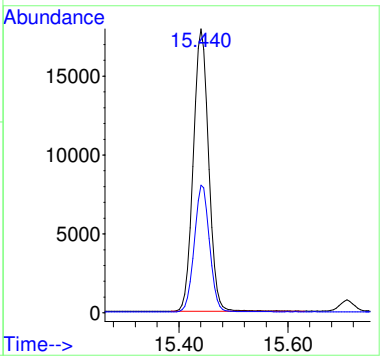


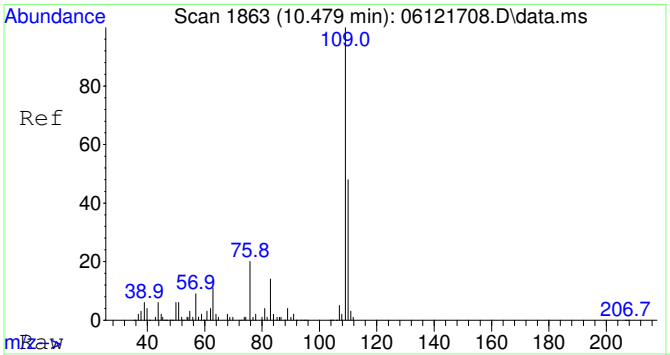


#23
1,2,4-Trimethylbenzene
Concen: 248.83 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion:105 Resp: 34816

Ion	Ratio	Lower	Upper
105	100		
120	44.8	14.4	74.4

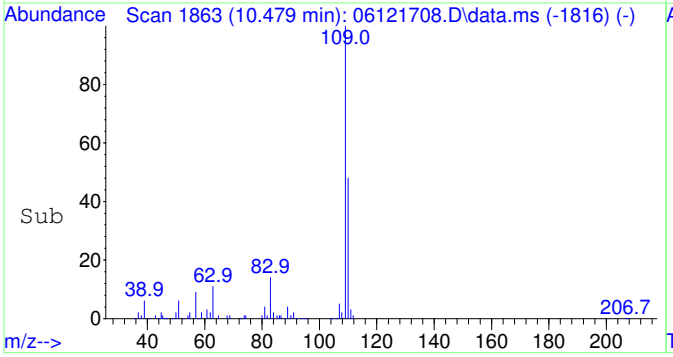


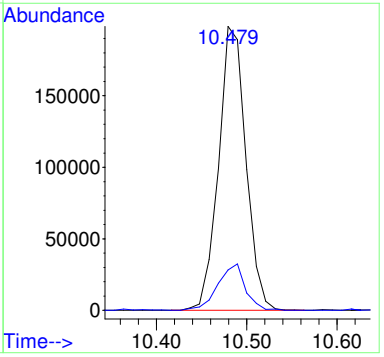


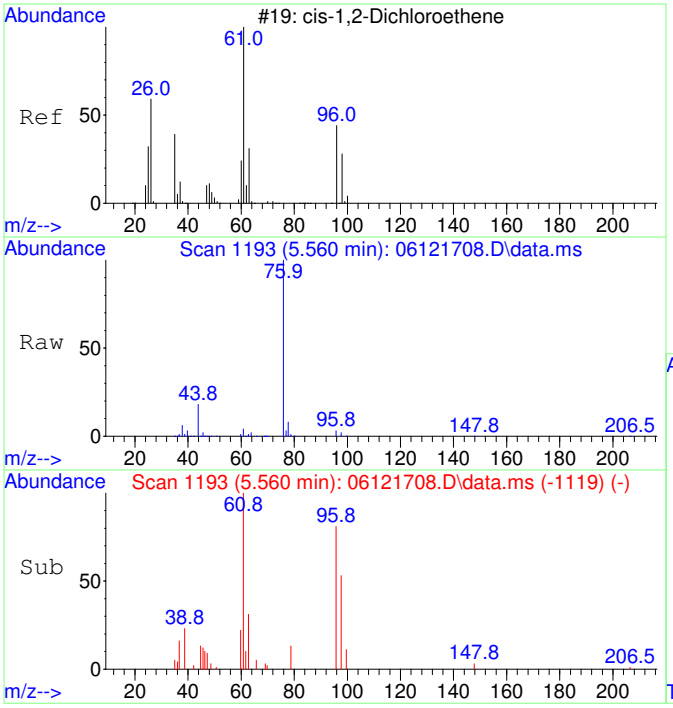
#25
2-Fluorotoluene SCAN
Concen: 4736.42 ug/L
RT: 10.479 min Scan# 1863
Delta R.T. -0.010 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion:109 Resp: 419204

Ion	Ratio	Lower	Upper
109	100		
83	16.5	0.0	46.1



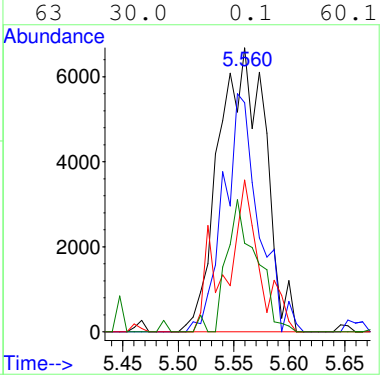


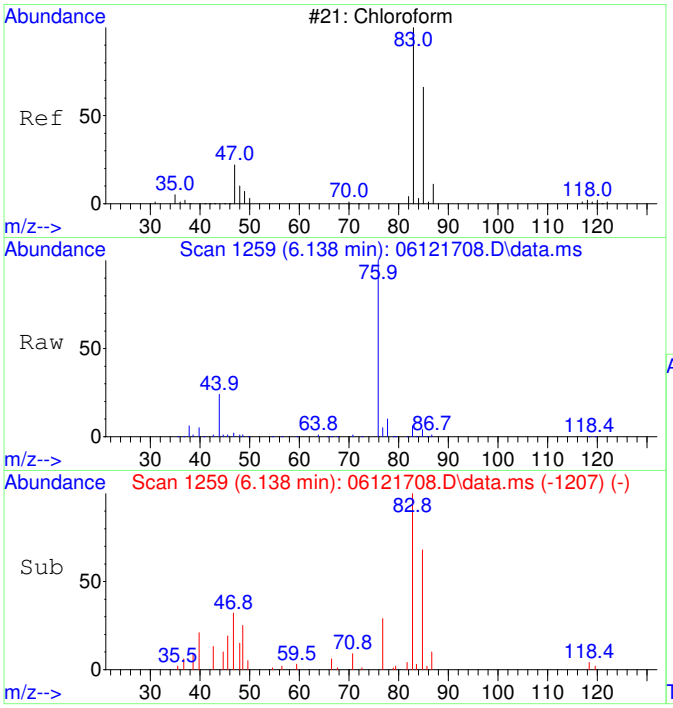


#29
cis-1,2-Dichloroethene SCAN
Concen: 427.24 ug/L
RT: 5.560 min Scan# 1193
Delta R.T. -0.007 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 61 Resp: 19587

Ion	Ratio	Lower	Upper
61	100		
96	62.9	17.5	77.5
98	13.1	1.9	61.9
63	30.0	0.1	60.1

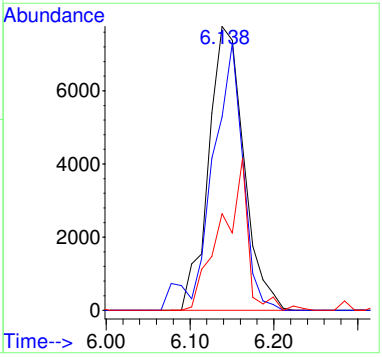


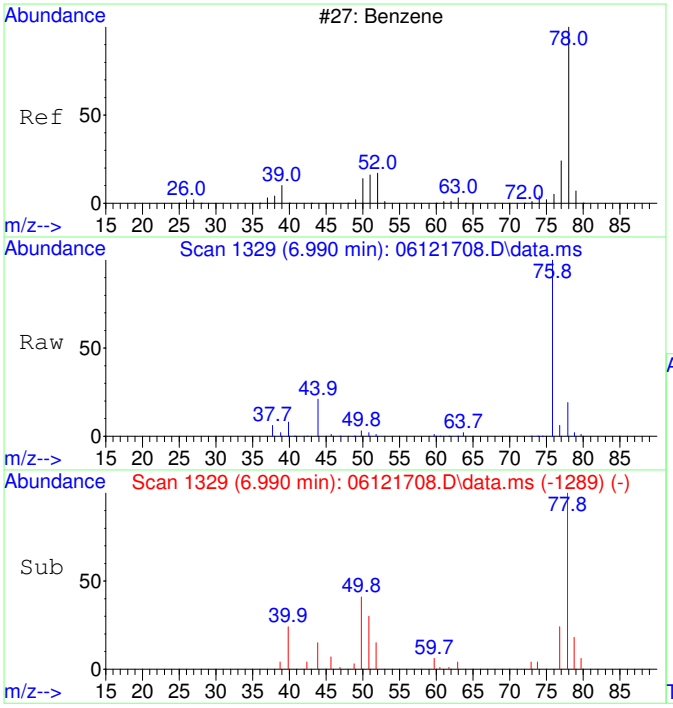


#30
Chloroform SCAN
Concen: 546.85 ug/L
RT: 6.138 min Scan# 1259
Delta R.T. -0.012 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 83 Resp: 22607

Ion	Ratio	Lower	Upper
83	100		
85	0.0	31.2	91.2#
47	0.0	3.2	63.2#

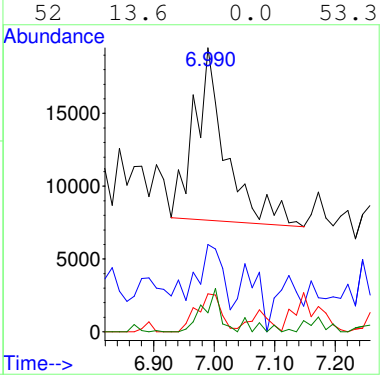


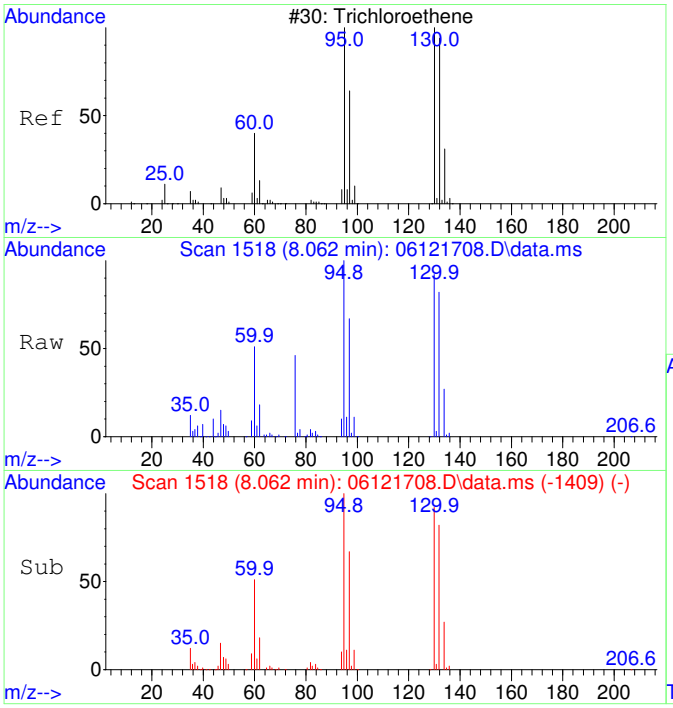


#33
Benzene SCAN
Concen: 455.40 ug/L
RT: 6.990 min Scan# 1329
Delta R.T. -0.012 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 78 Resp: 42669

Ion	Ratio	Lower	Upper
78	100		
77	23.9	0.0	55.2
51	16.0	0.0	52.4
52	13.6	0.0	53.3

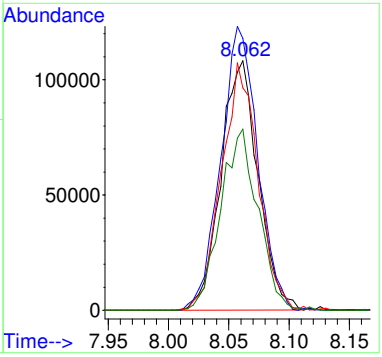


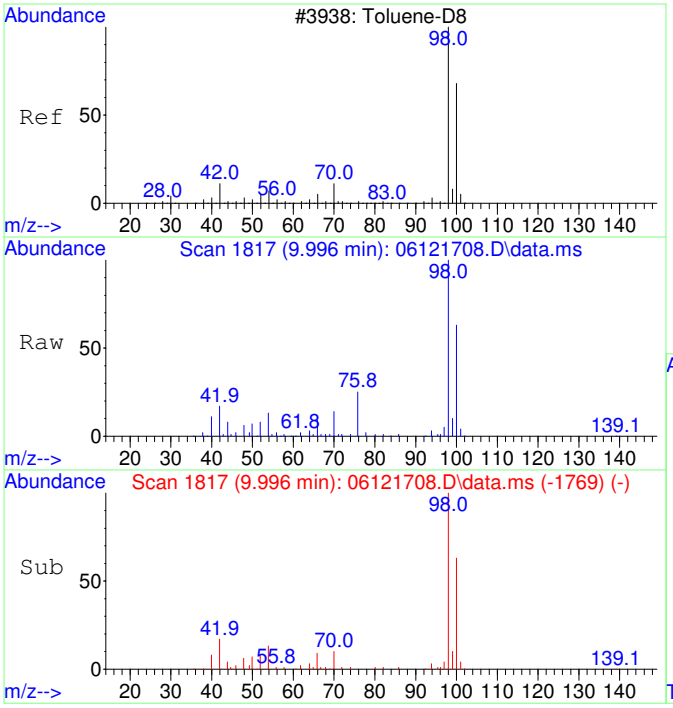


#35
Trichloroethene SCAN
Concen: 10712.10 ug/L
RT: 8.062 min Scan# 1518
Delta R.T. 0.000 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion:130 Resp: 232429

Ion	Ratio	Lower	Upper
130	100		
95	113.1	76.1	136.1
132	96.9	65.6	125.6
97	72.6	41.8	101.8

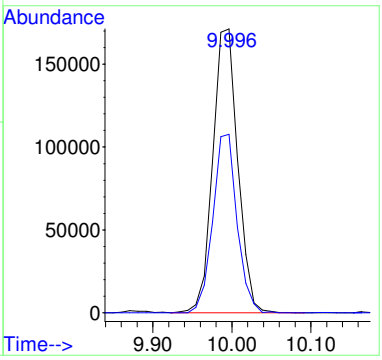


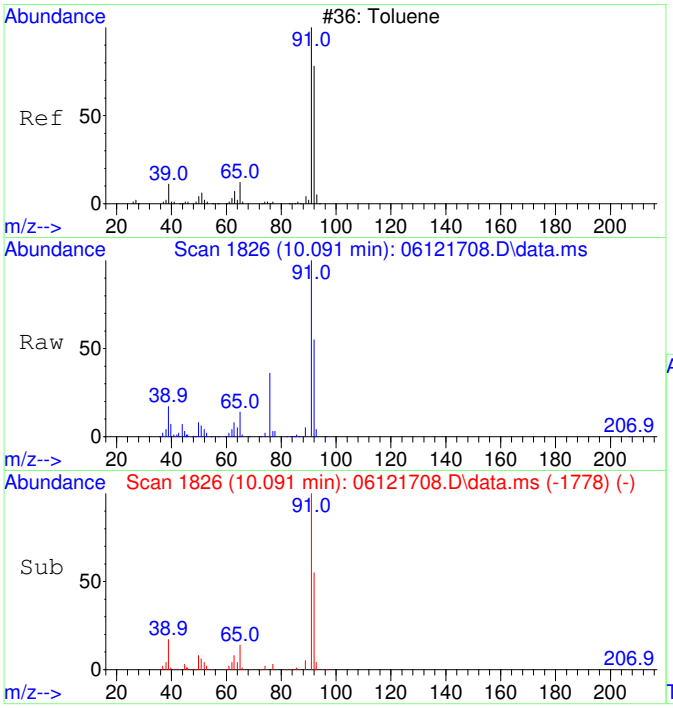


#36
Toluene-d8 SCAN
Concen: 5152.24 ug/L
RT: 9.996 min Scan# 1817
Delta R.T. 0.000 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 98 Resp: 376347

Ion	Ratio	Lower	Upper
98	100		
100	60.8	36.2	96.2

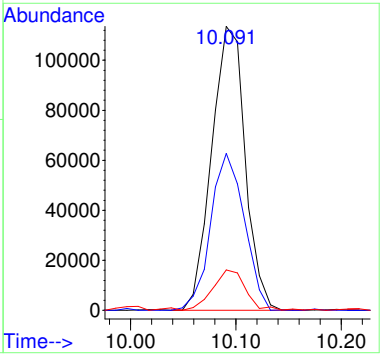


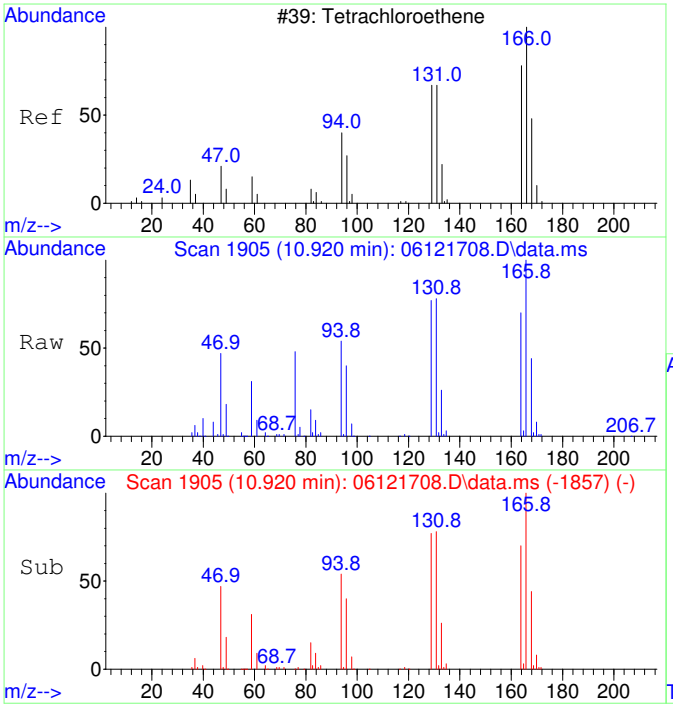


#37
Toluene SCAN
Concen: 2581.62 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 91 Resp: 251514

Ion	Ratio	Lower	Upper
91	100		
92	55.7	29.2	89.2
65	13.3	0.0	44.3

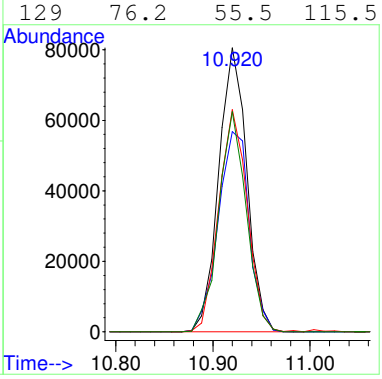


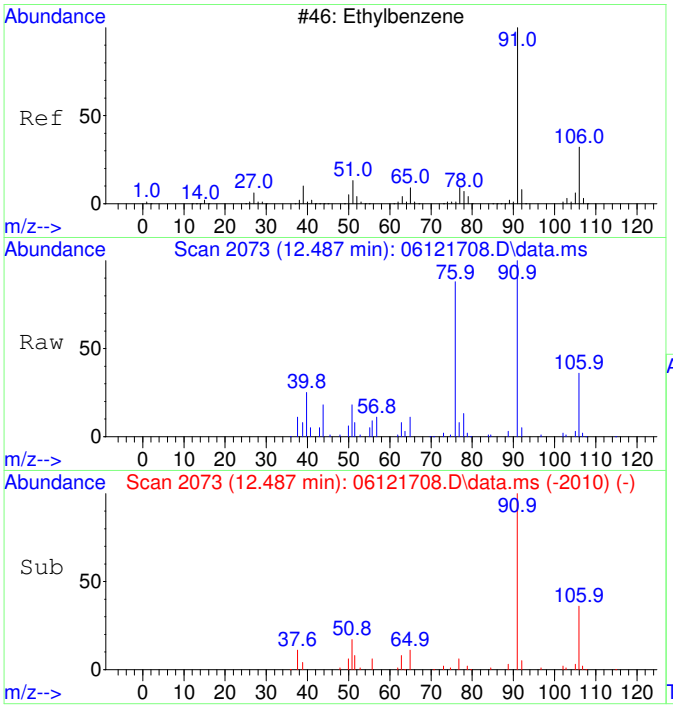


#39
Tetrachloroethene SCAN
Concen: 8096.42 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion:166 Resp: 161710

Ion	Ratio	Lower	Upper
166	100		
164	77.7	45.7	105.7
131	79.4	44.8	104.8
129	76.2	55.5	115.5

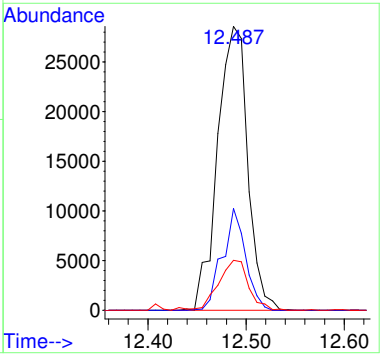


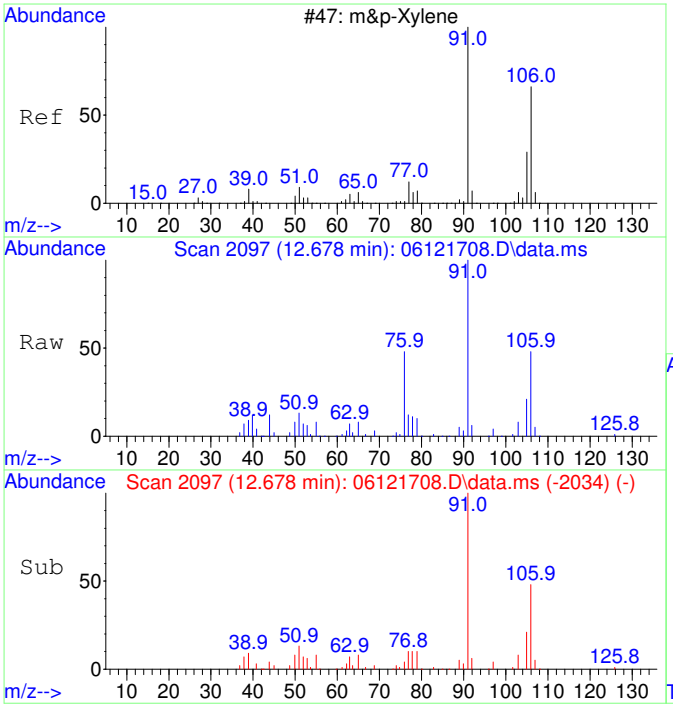


#42
Ethylbenzene SCAN
Concen: 557.28 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. 0.000 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 91 Resp: 60793

Ion	Ratio	Lower	Upper
91	100		
106	27.7	0.0	59.8
51	17.9	0.0	45.5

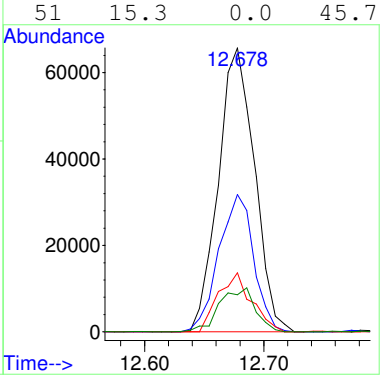


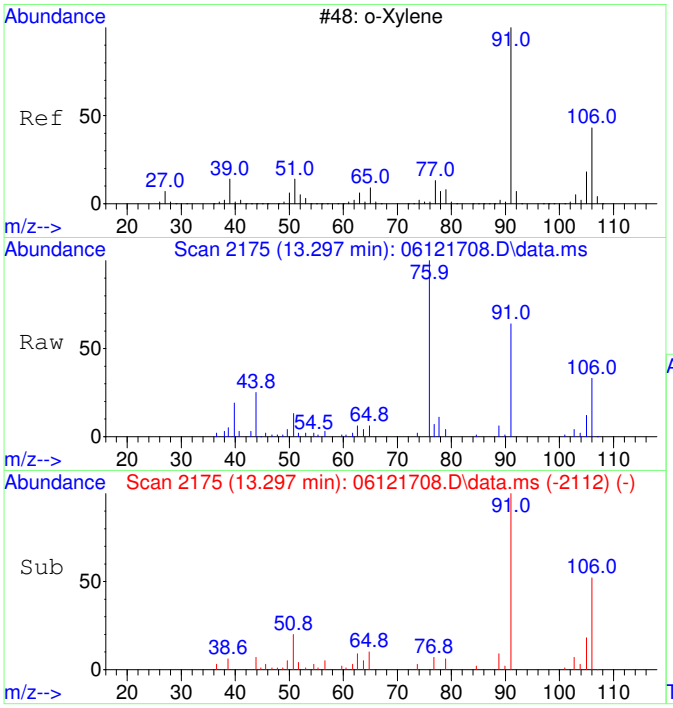


#43
m&p-Xylene SCAN
Concen: 816.47 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 91 Resp: 139062

Ion	Ratio	Lower	Upper
91	100		
106	46.6	18.5	78.5
105	19.2	0.0	51.3
51	15.3	0.0	45.7

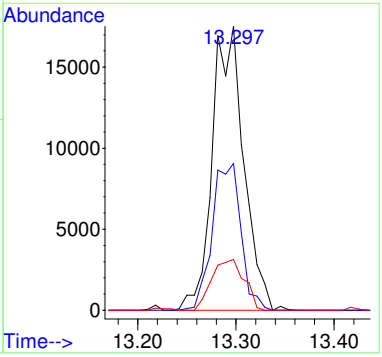


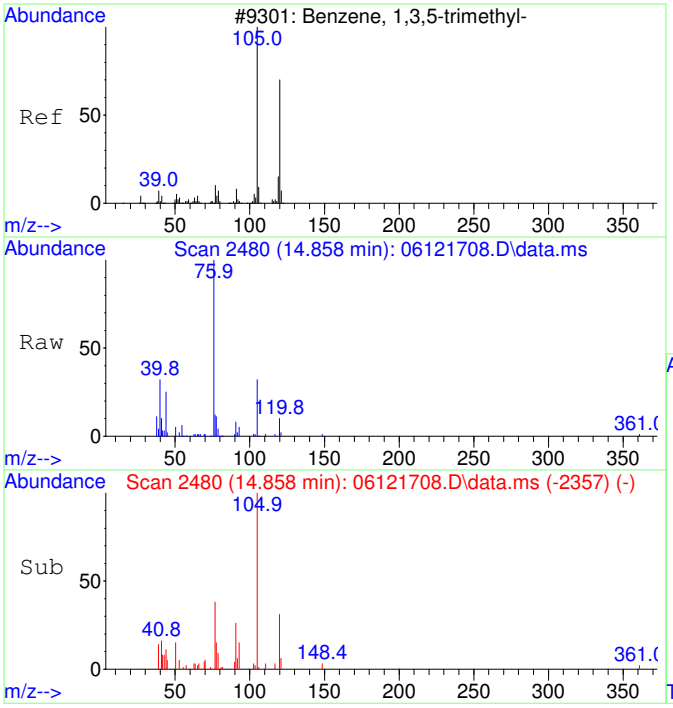


#44
o-Xylene SCAN
Concen: 443.92 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. 0.000 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion: 91 Resp: 38935

Ion	Ratio	Lower	Upper
91	100		
106	47.2	15.5	75.5
105	18.5	0.0	54.1

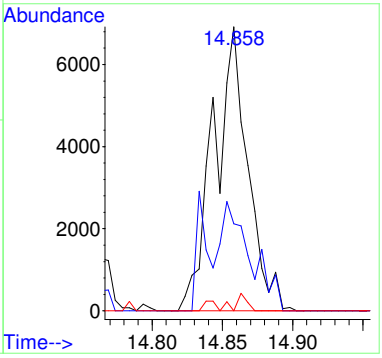


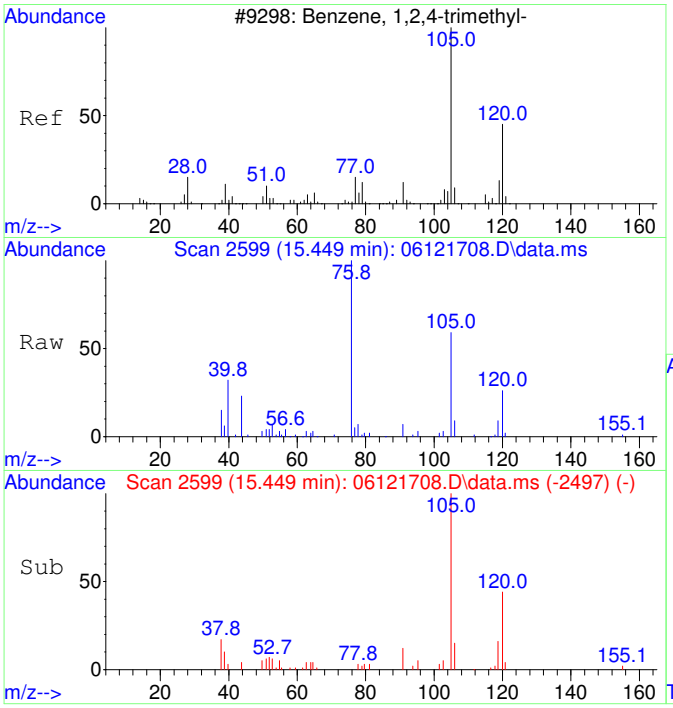


#46
1,3,5-Trimethylbenzene SCAN
Concen: 141.22 ug/L
RT: 14.858 min Scan# 2480
Delta R.T. 0.001 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion:105 Resp: 11749

Ion	Ratio	Lower	Upper
105	100		
120	20.7	17.3	77.3
119	2.1	0.0	42.7

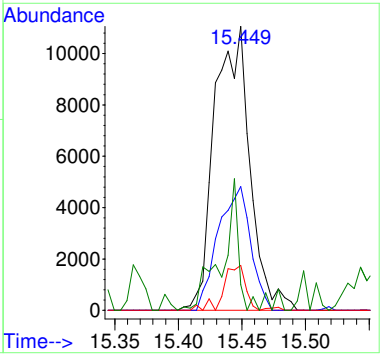




#47
1,2,4-Trimethylbenzene SCAN
Concen: 247.58 ug/L
RT: 15.449 min Scan# 2599
Delta R.T. 0.006 min
Lab File: 06121708.D
Acq: 12 Jun 2017 14:32

Tgt Ion:105 Resp: 21464

Ion	Ratio	Lower	Upper
105	100		
120	39.9	12.9	72.9
119	9.7	0.0	40.5
77	21.6	0.0	43.3



1706012-05RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121709.D
Acq On : 12 Jun 2017 14:55
InstName : AG5975C
Operator : RH
Sample : 1706012-05RE1
Misc : 100 UL - 1 ML
ALS Vial : 8 Sample Multiplier: 10

Quant Time: Jun 13 11:03:17 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

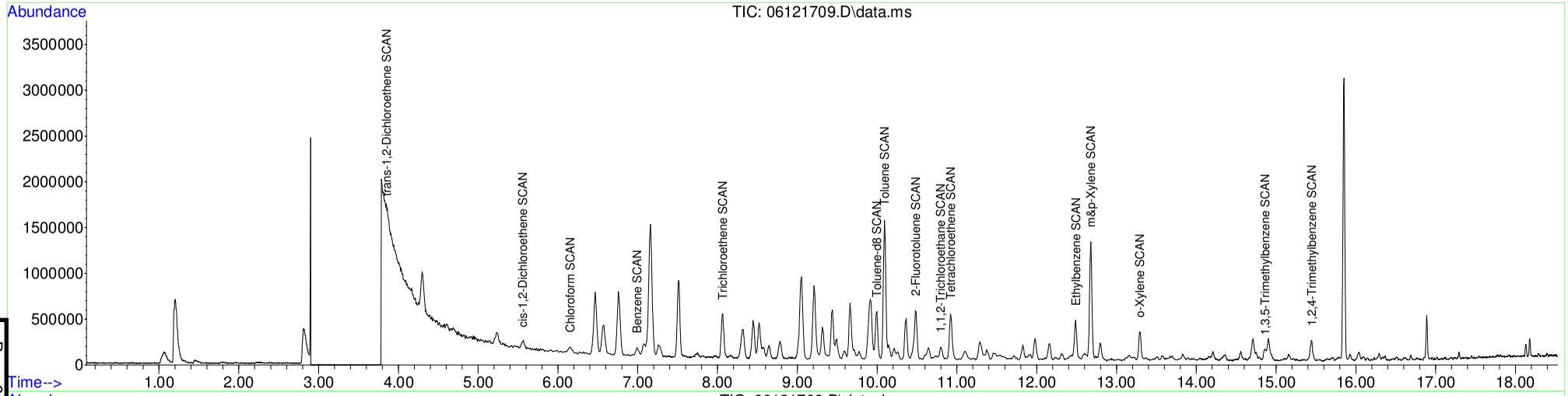
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.481	109	750676	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	619375	5038.14 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 100.76%		
Target Compounds					Qvalue
3] trans-1,2-Dichloroethene	3.856	61	7706	120.09 ug/L	83
5] cis-1,2-Dichloroethene	5.561	61	90854	1374.21 ug/L	100
6] Chloroform	6.140	83	66826	1044.56 ug/L	97
9] Benzene	6.991	78	140026	939.87 ug/L	98
11] Trichloroethene	8.063	130	309728	8083.61 ug/L	99
13] Toluene	10.082	91	2009368	12342.46 ug/L	99
14] 1,1,2-Trichloroethane	10.795	97	4792	137.65 ug/L #	7
15] Tetrachloroethene	10.921	166	316739	7590.67 ug/L	100
18] Ethylbenzene	12.481	91	490334	2798.58 ug/L	100
19] m&p-Xylene	12.671	91	1344731	9783.63 ug/L	100
20] o-Xylene	13.291	91	345503	2430.59 ug/L	100
22] 1,3,5-Trimethylbenzene	14.855	105	98029	698.44 ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	228282	1586.55 ug/L	100
25) 2-Fluorotoluene SCAN	10.479	109	417525	4587.47 ug/L	99
27) trans-1,2-Dichloroethe...	3.855	61	5116	125.18 ug/L #	54
29) cis-1,2-Dichloroethene...	5.560	61	69076	1465.21 ug/L	94
30) Chloroform SCAN	6.151	83	45625	1073.23 ug/L	94
33) Benzene SCAN	6.990	78	103084	1069.88 ug/L	96
35) Trichloroethene SCAN	8.062	130	172267	7720.62 ug/L	96
36) Toluene-d8 SCAN	9.997	98	383703	5108.20 ug/L	97
37) Toluene SCAN	10.091	91	1229060	12267.84 ug/L	98
38) 1,1,2-Trichloroethane ...	10.794	97	3591	159.15 ug/L #	39
39) Tetrachloroethene SCAN	10.920	166	157510	7668.84 ug/L	93
42) Ethylbenzene SCAN	12.487	91	292572	2608.09 ug/L	97
43) m&p-Xylene SCAN	12.678	91	836301	4774.82 ug/L	95
44) o-Xylene SCAN	13.290	91	218772	2425.64 ug/L	92
46) 1,3,5-Trimethylbenzene...	14.858	105	57651	673.87 ug/L	96
47) 1,2,4-Trimethylbenzene...	15.444	105	126658	1420.68 ug/L	98

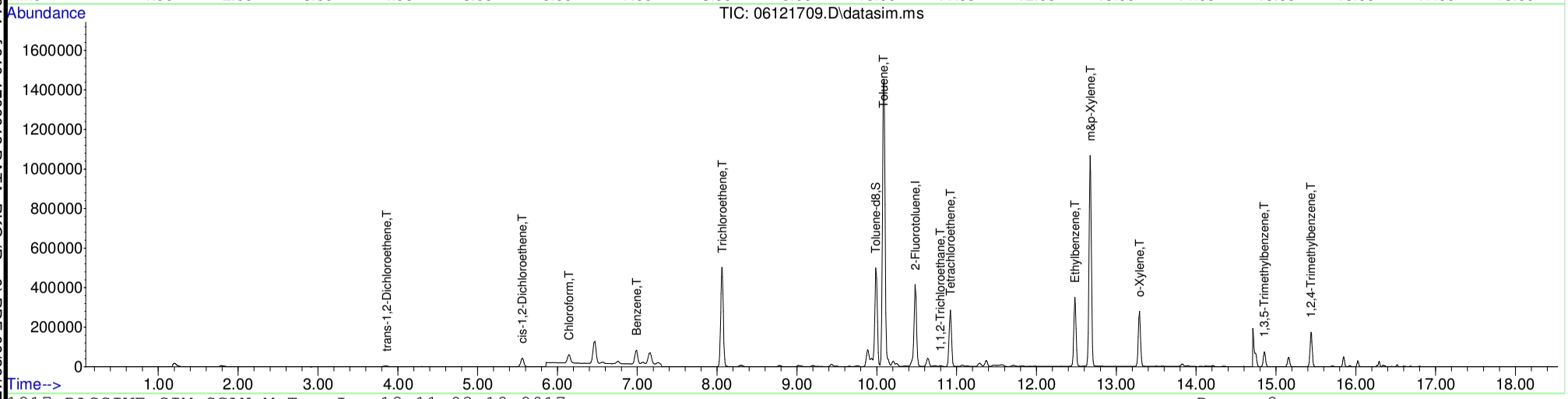
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121709.D
Acq On : 12 Jun 2017 14:55
InstName : AG5975C
Operator : RH
Sample : 1706012-05RE1
Misc : 100 UL - 1 ML
ALS Vial : 8 Sample Multiplier: 10

Quant Time: Jun 13 11:03:17 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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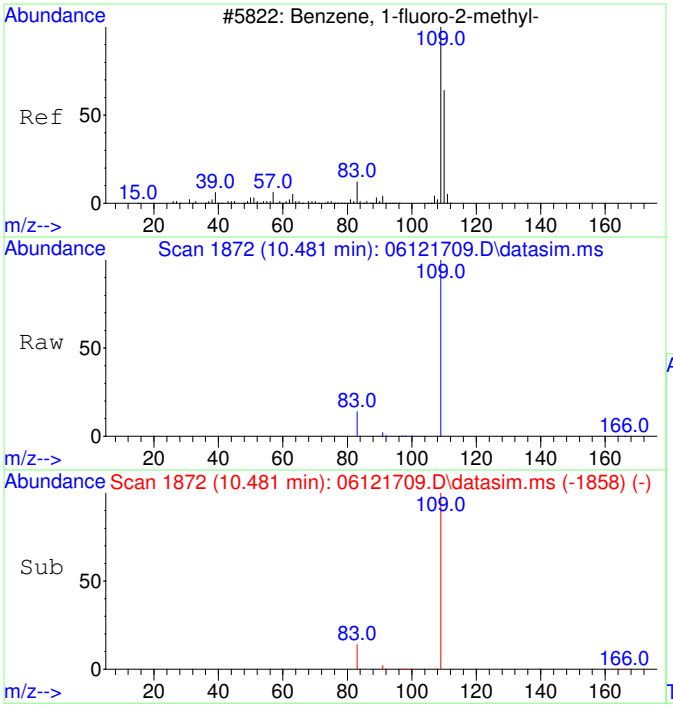
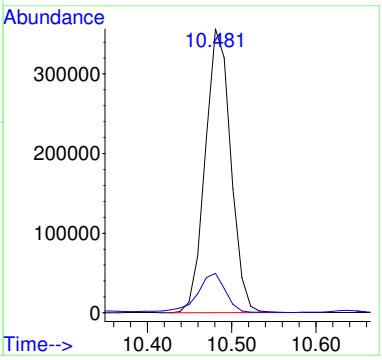
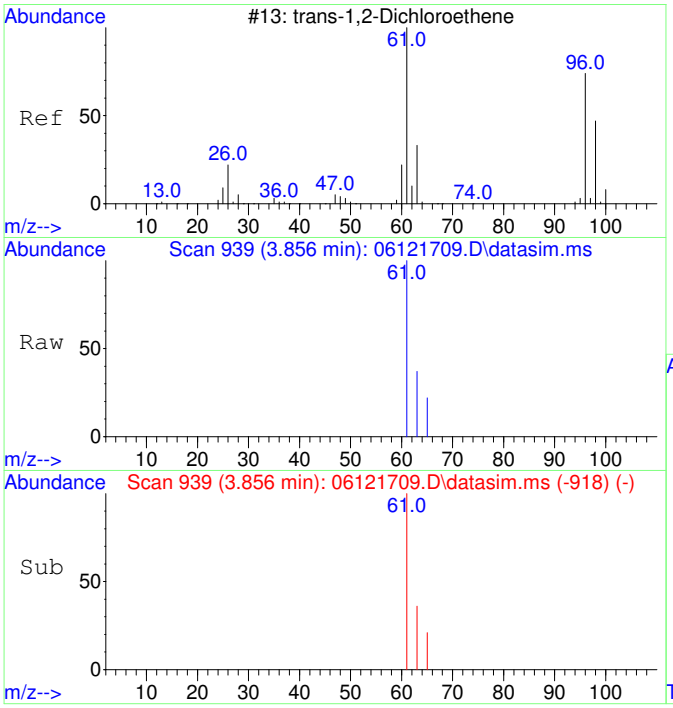


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.481 min Scan# 1872
Delta R.T. 0.001 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion:109 Resp: 750676

Ion	Ratio	Lower	Upper
109	100		
83	14.4	0.0	44.4

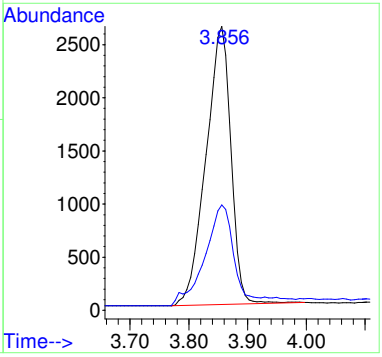


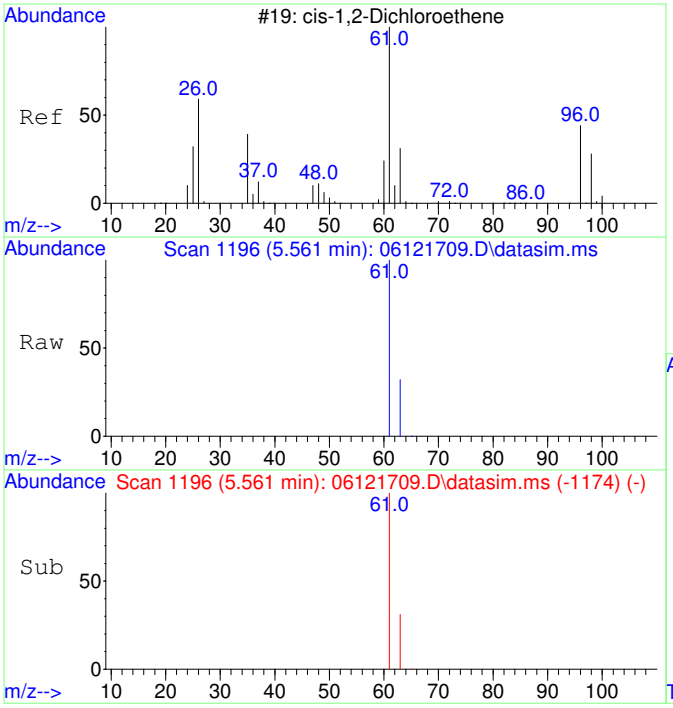


#3
trans-1,2-Dichloroethene
Concen: 120.09 ug/L
RT: 3.856 min Scan# 939
Delta R.T. -0.013 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 61 Resp: 7706

Ion	Ratio	Lower	Upper
61	100		
63	40.5	1.0	61.0

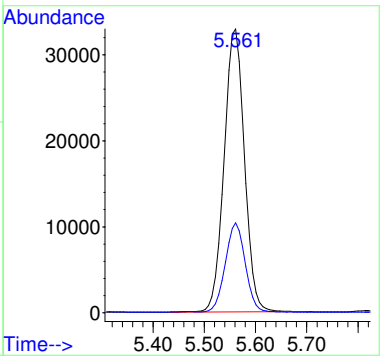


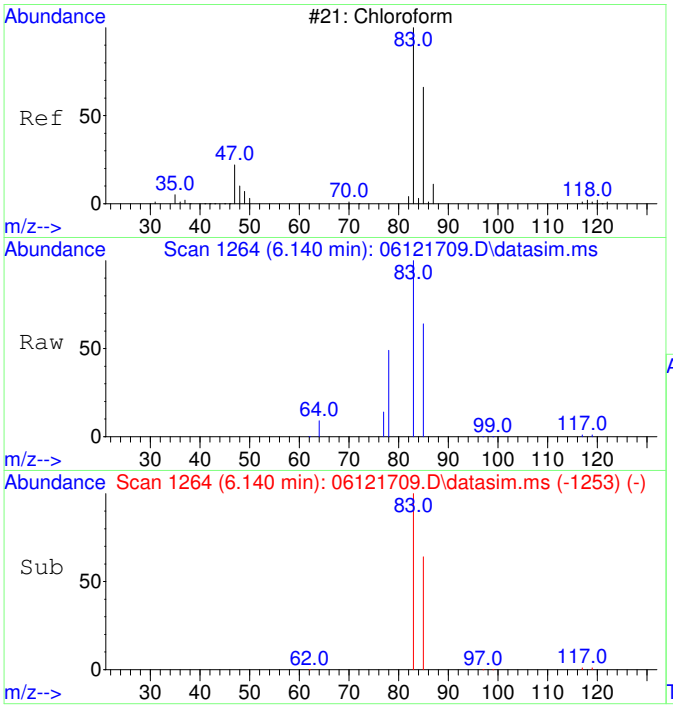


#5
cis-1,2-Dichloroethene
Concen: 1374.21 ug/L
RT: 5.561 min Scan# 1196
Delta R.T. -0.006 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 61 Resp: 90854

Ion	Ratio	Lower	Upper
61	100		
63	30.7	0.9	60.9

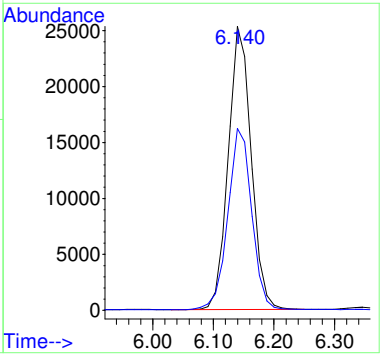


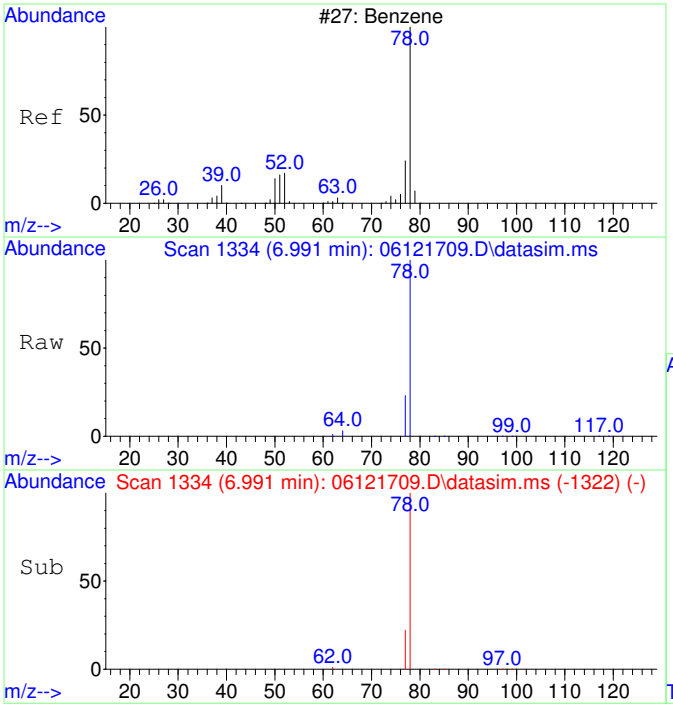


#6
Chloroform
Concen: 1044.56 ug/L
RT: 6.140 min Scan# 1264
Delta R.T. -0.012 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 83 Resp: 66826

Ion	Ratio	Lower	Upper
83	100		
85	66.2	33.7	93.7

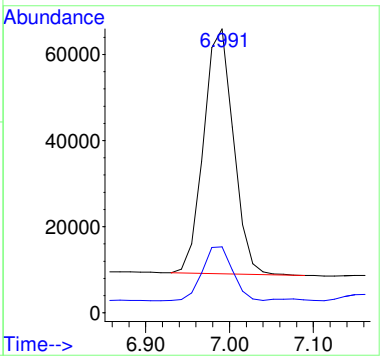


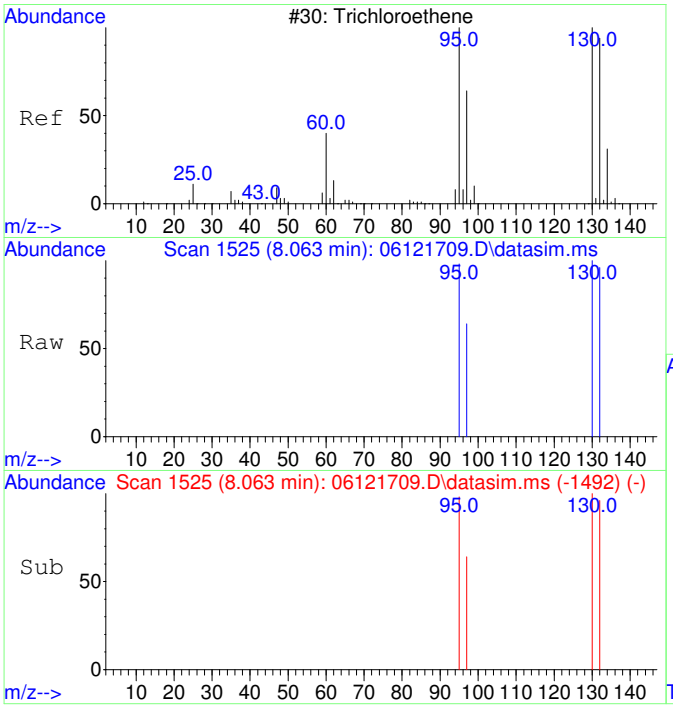


#9
Benzene
Concen: 939.87 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 78 Resp: 140026

Ion	Ratio	Lower	Upper
78	100		
77	22.2	0.0	53.0

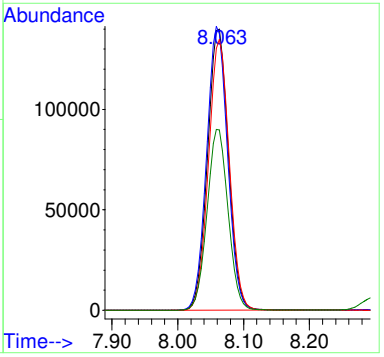


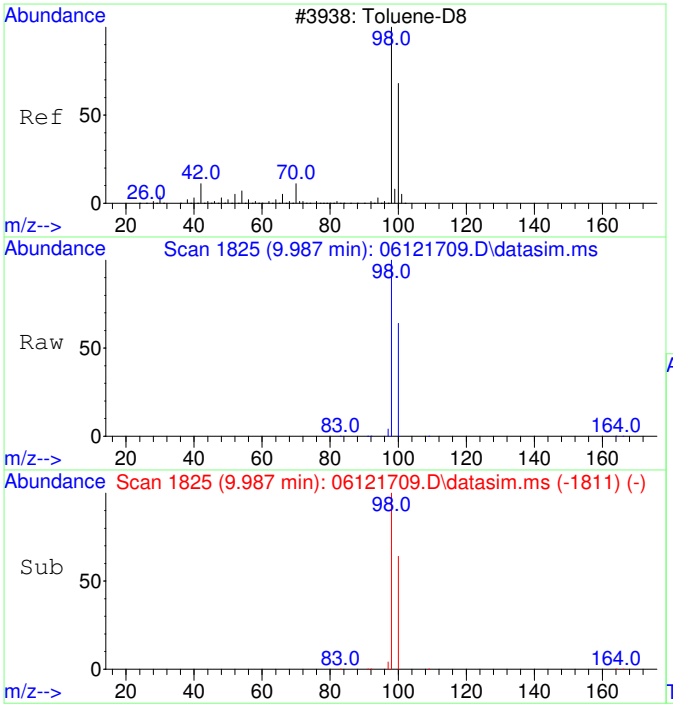


#11
Trichloroethene
Concen: 8083.61 ug/L
RT: 8.063 min Scan# 1525
Delta R.T. 0.000 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion:130 Resp: 309728

Ion	Ratio	Lower	Upper
130	100		
95	100.9	69.8	129.8
132	95.8	76.4	116.4
97	64.6	44.3	84.3

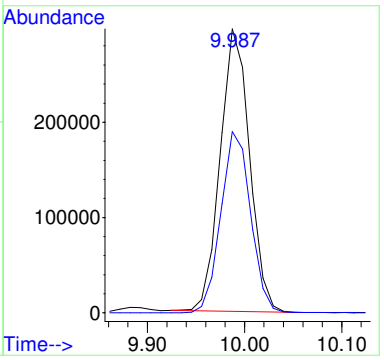


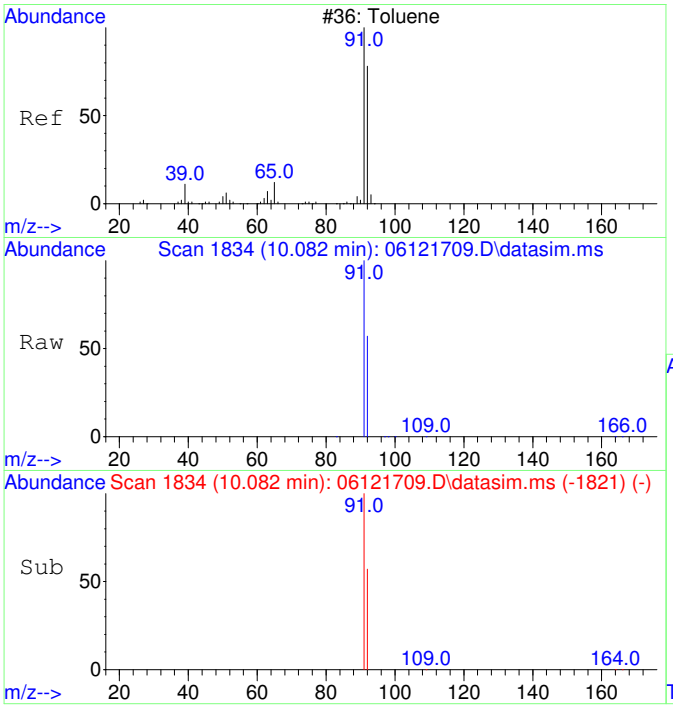


#12
Toluene-d8
Concen: 5038.14 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. 0.000 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 98 Resp: 619375

Ion	Ratio	Lower	Upper
98	100		
100	64.7	34.2	94.2

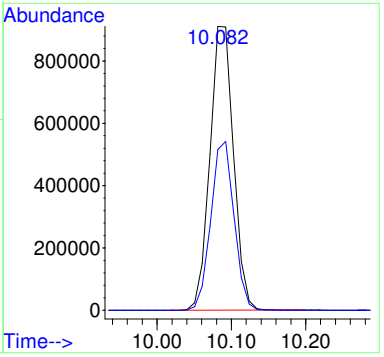


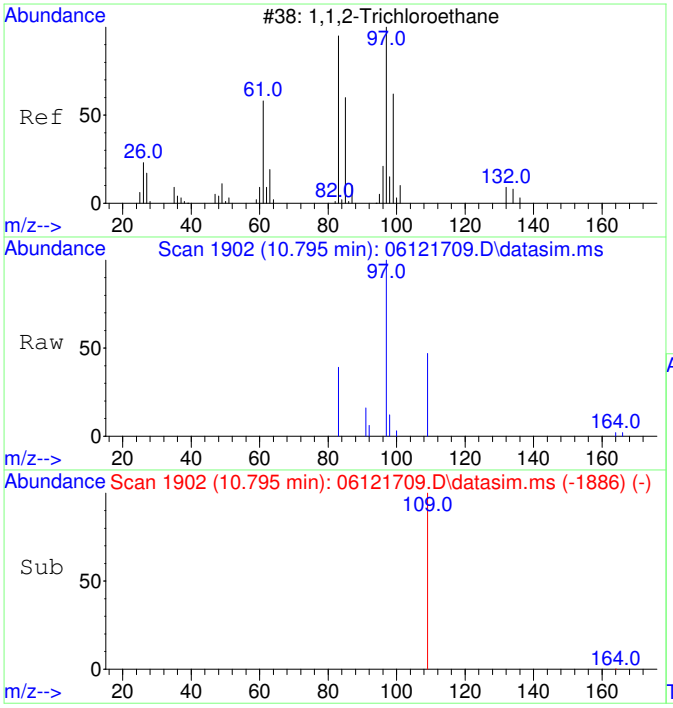


#13
Toluene
Concen: 12342.46 ug/L
RT: 10.082 min Scan# 1834
Delta R.T. -0.010 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 91 Resp: 2009368

Ion	Ratio	Lower	Upper
91	100		
92	58.0	28.4	88.4

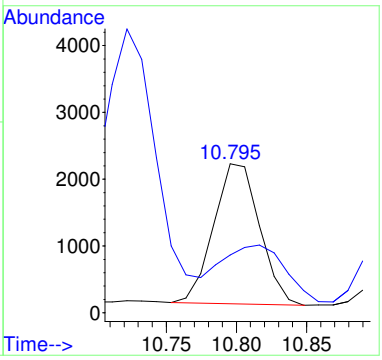


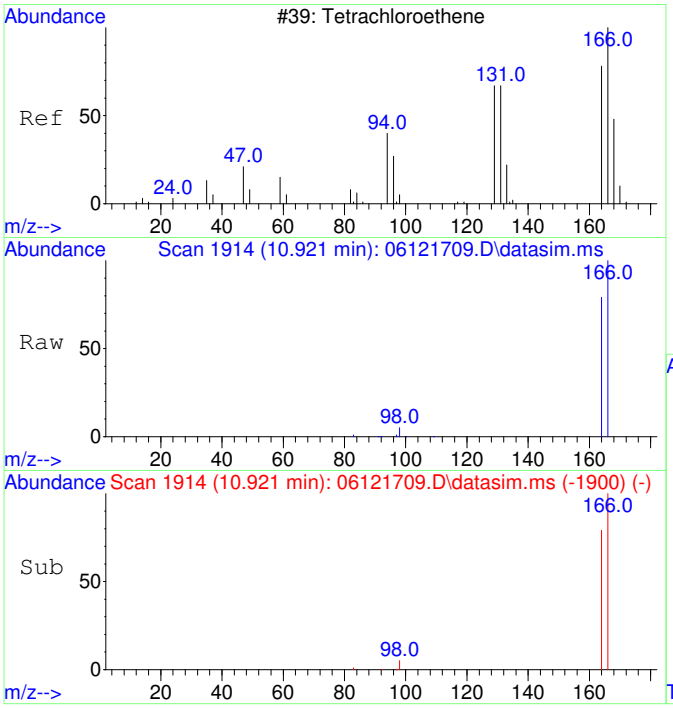


#14
1,1,2-Trichloroethane
Concen: 137.65 ug/L
RT: 10.795 min Scan# 1902
Delta R.T. 0.021 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 97 Resp: 4792

Ion	Ratio	Lower	Upper
97	100		
83	0.0	54.5	114.5#

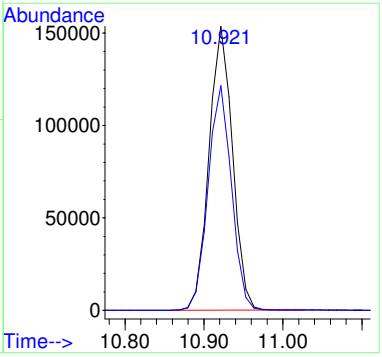


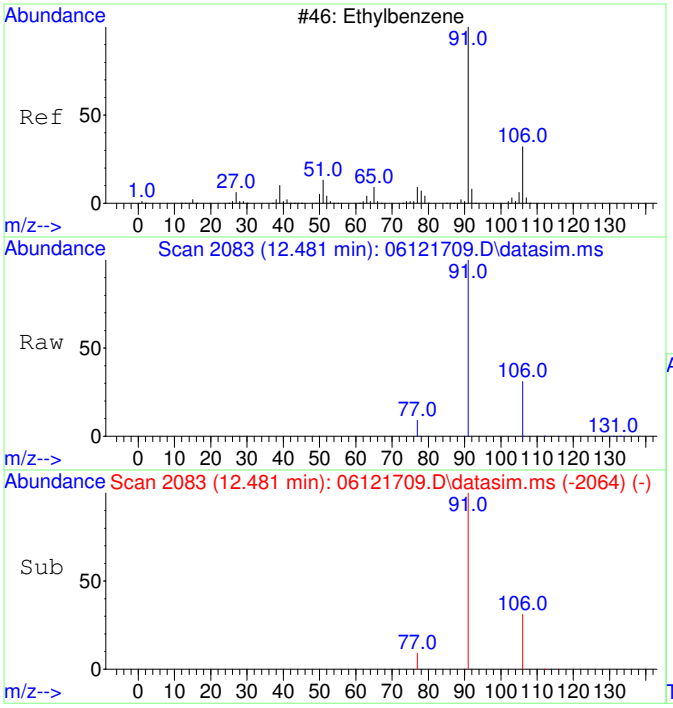


#15
Tetrachloroethene
Concen: 7590.67 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion:166 Resp: 316739

Ion	Ratio	Lower	Upper
166	100		
164	78.4	48.1	108.1

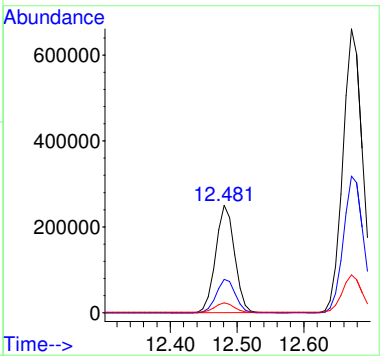


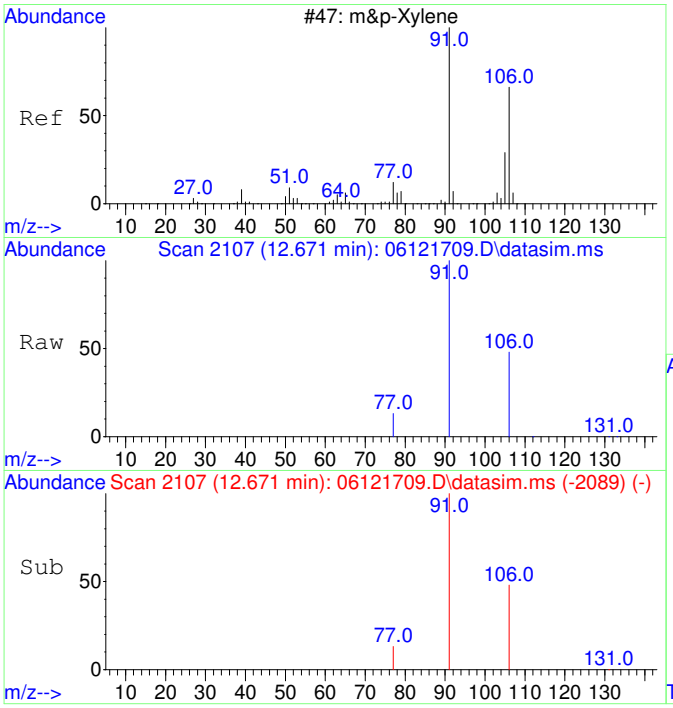


#18
Ethylbenzene
Concen: 2798.58 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 91 Resp: 490334

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.2	61.2
77	8.6	0.0	38.6

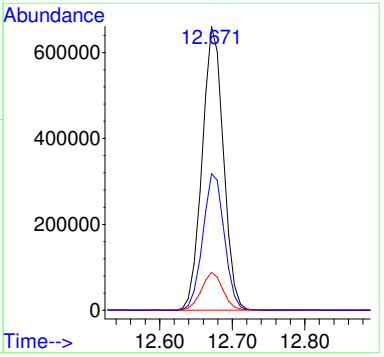


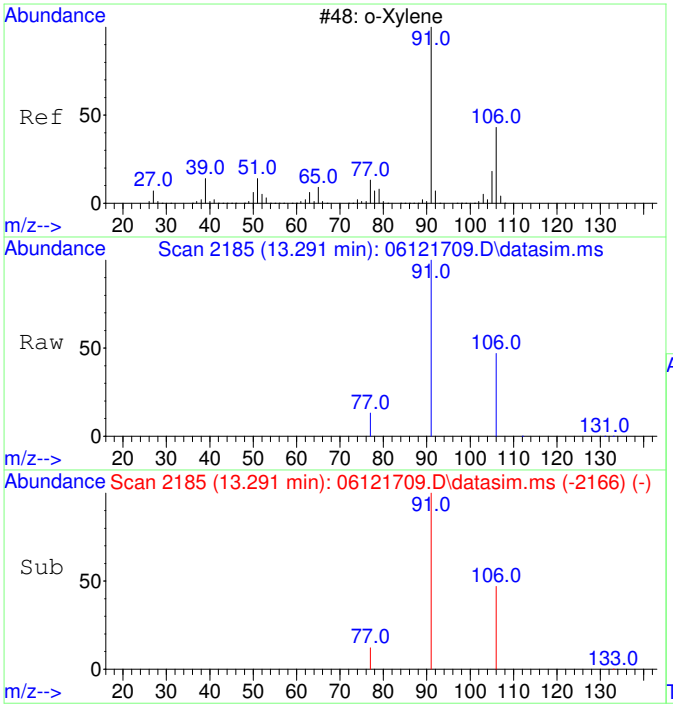


#19
m&p-Xylene
Concen: 9783.63 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 91 Resp: 1344731

Ion	Ratio	Lower	Upper
91	100		
106	48.7	18.4	78.4
77	12.9	0.0	43.1

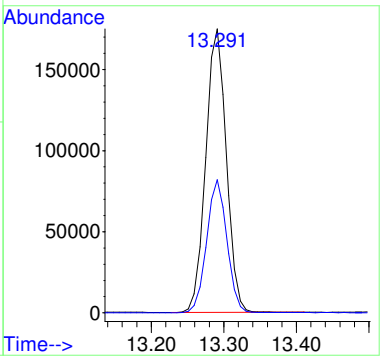


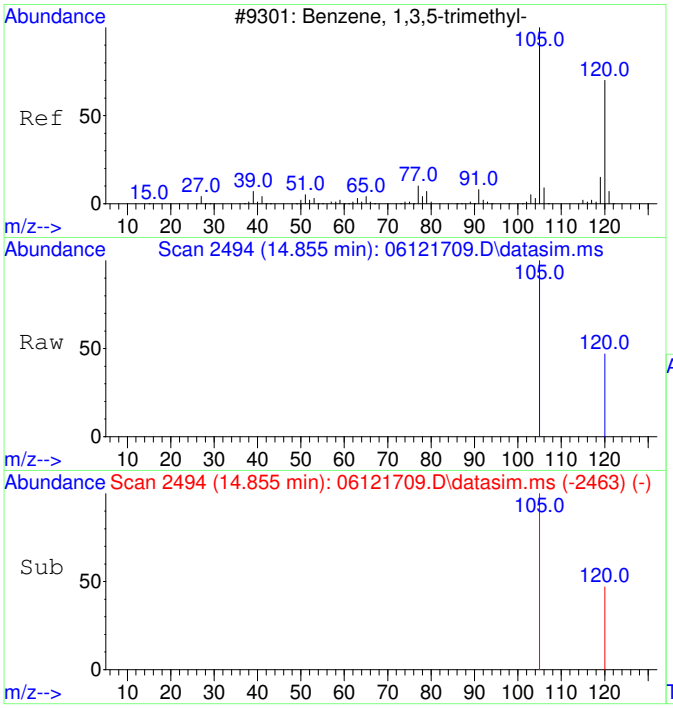


#20
o-Xylene
Concen: 2430.59 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 91 Resp: 345503

Ion	Ratio	Lower	Upper
91	100		
106	45.9	16.0	76.0

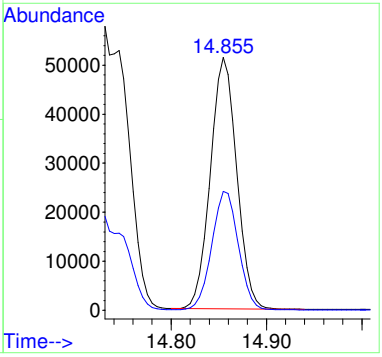


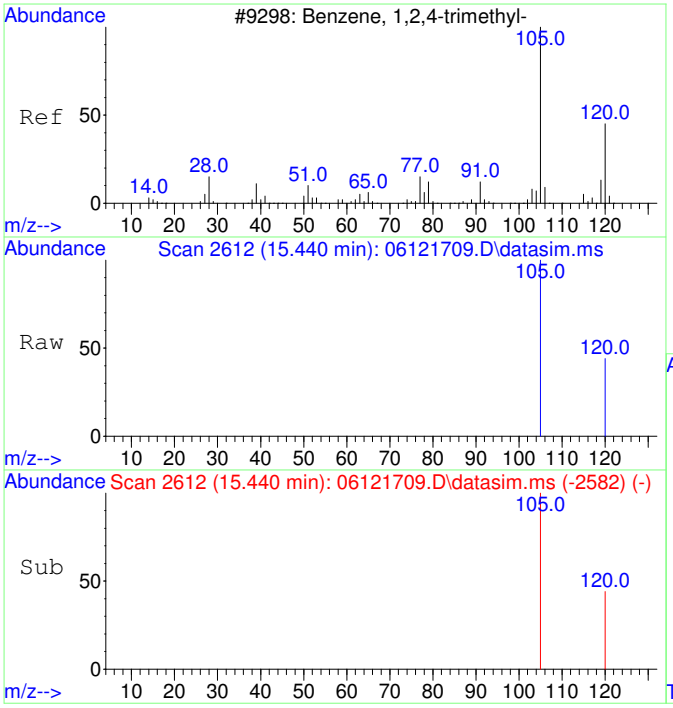


#22
1,3,5-Trimethylbenzene
Concen: 698.44 ug/L
RT: 14.855 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion:105 Resp: 98029

Ion	Ratio	Lower	Upper
105	100		
120	47.3	18.0	78.0

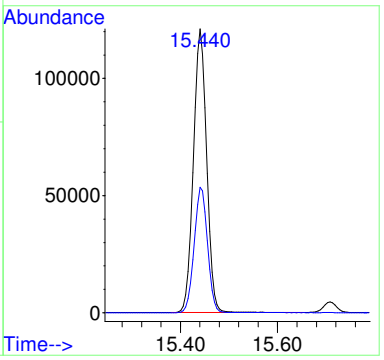


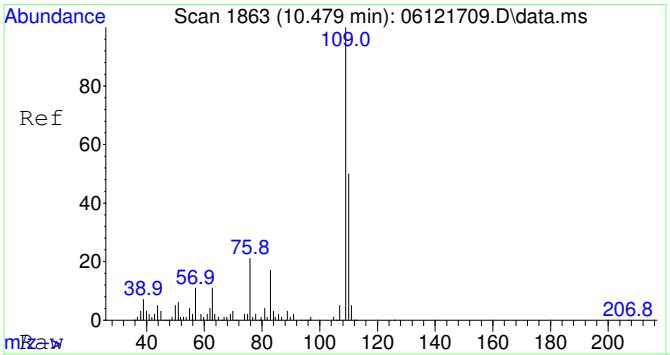


#23
1,2,4-Trimethylbenzene
Concen: 1586.55 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion:105 Resp: 228282

Ion	Ratio	Lower	Upper
105	100		
120	44.6	14.4	74.4

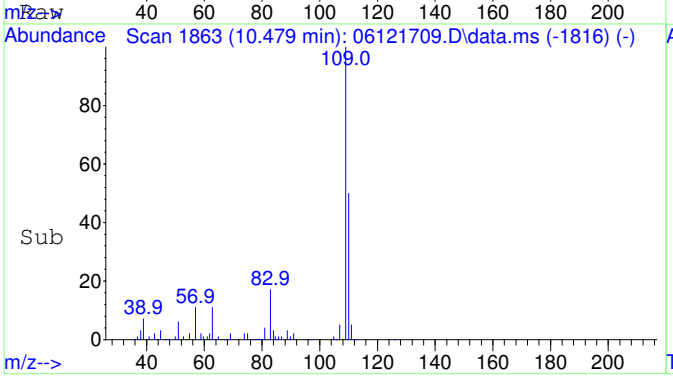


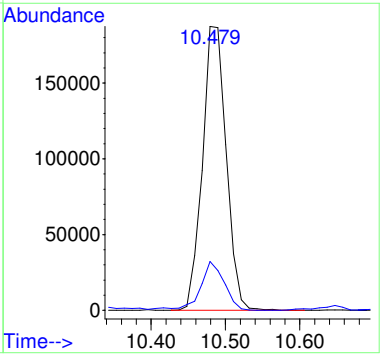


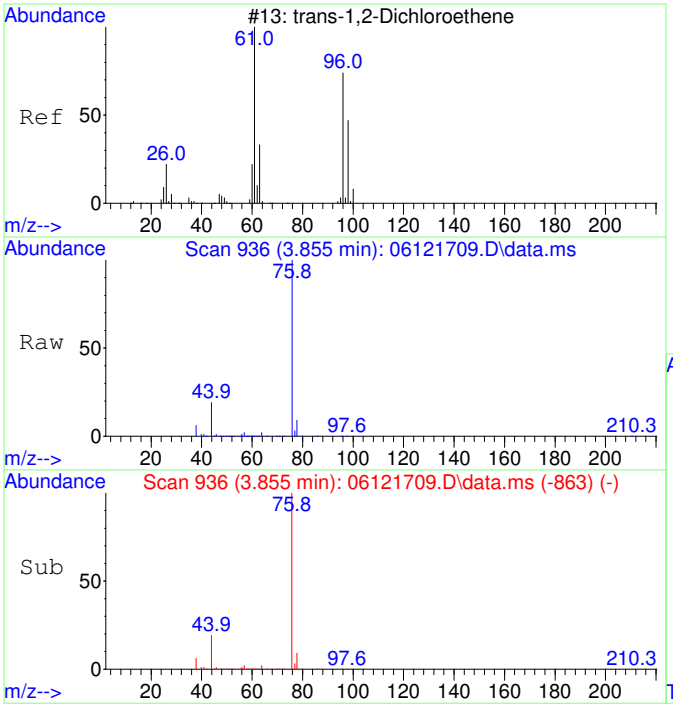
#25
2-Fluorotoluene SCAN
Concen: 4587.47 ug/L
RT: 10.479 min Scan# 1863
Delta R.T. -0.010 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion:109 Resp: 417525

Ion	Ratio	Lower	Upper
109	100		
83	16.7	0.0	46.1



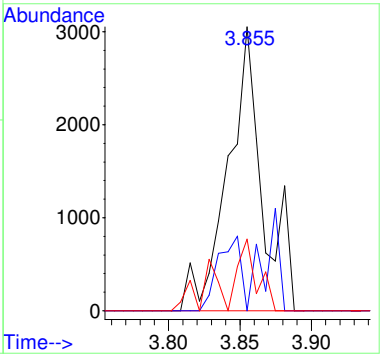


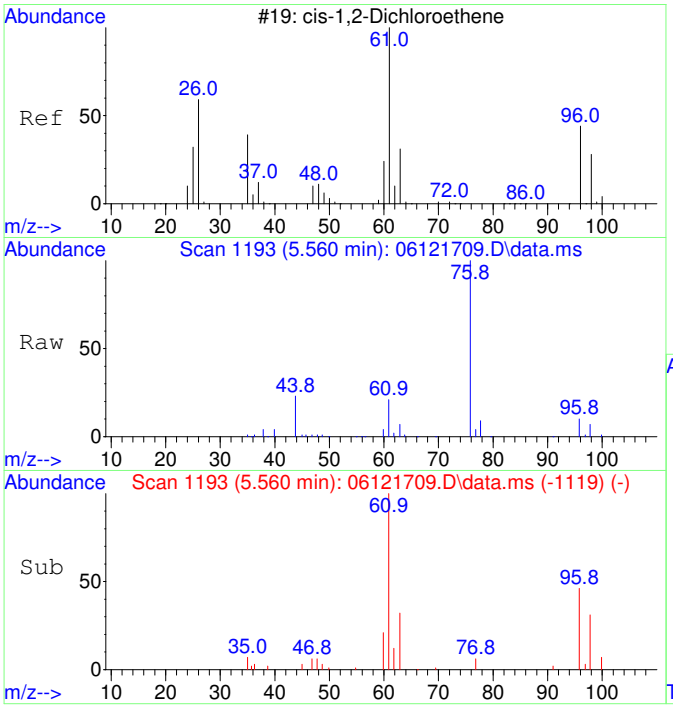


#27
trans-1,2-Dichloroethene SCAN
Concen: 125.18 ug/L
RT: 3.855 min Scan# 936
Delta R.T. -0.013 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 61 Resp: 5116

Ion	Ratio	Lower	Upper
61	100		
96	17.3	26.1	86.1#
98	14.4	4.4	64.4

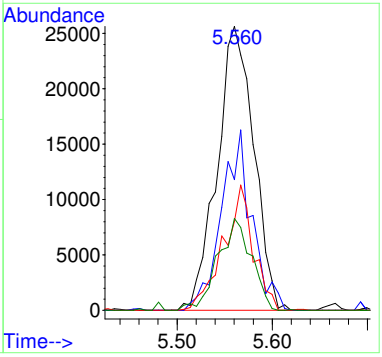


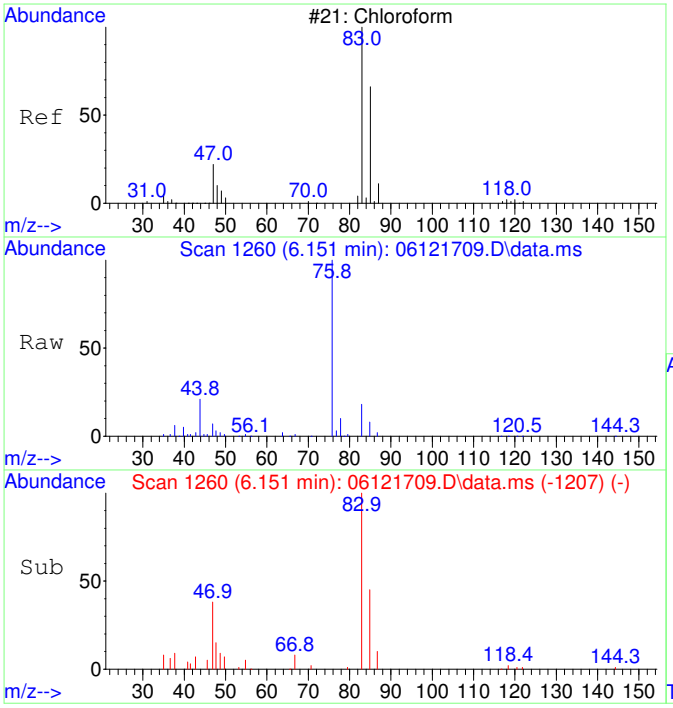


#29
cis-1,2-Dichloroethene SCAN
Concen: 1465.21 ug/L
RT: 5.560 min Scan# 1193
Delta R.T. -0.006 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 61 Resp: 69076

Ion	Ratio	Lower	Upper
61	100		
96	52.4	17.5	77.5
98	35.9	1.9	61.9
63	29.4	0.1	60.1

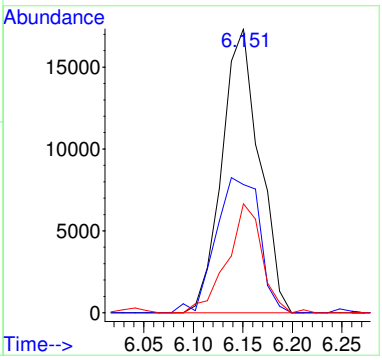


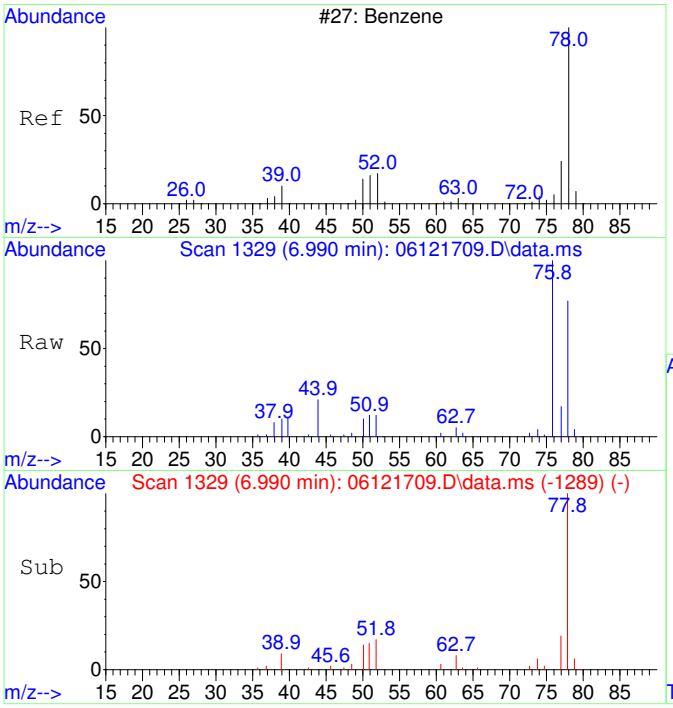


#30
Chloroform SCAN
Concen: 1073.23 ug/L
RT: 6.151 min Scan# 1260
Delta R.T. 0.000 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 83 Resp: 45625

Ion	Ratio	Lower	Upper
83	100		
85	55.5	31.2	91.2
47	35.5	3.2	63.2

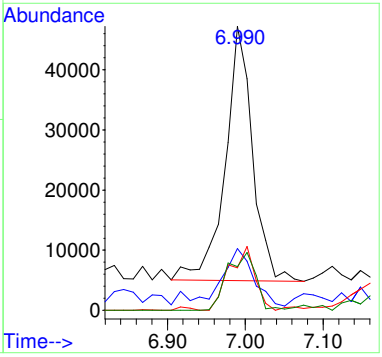


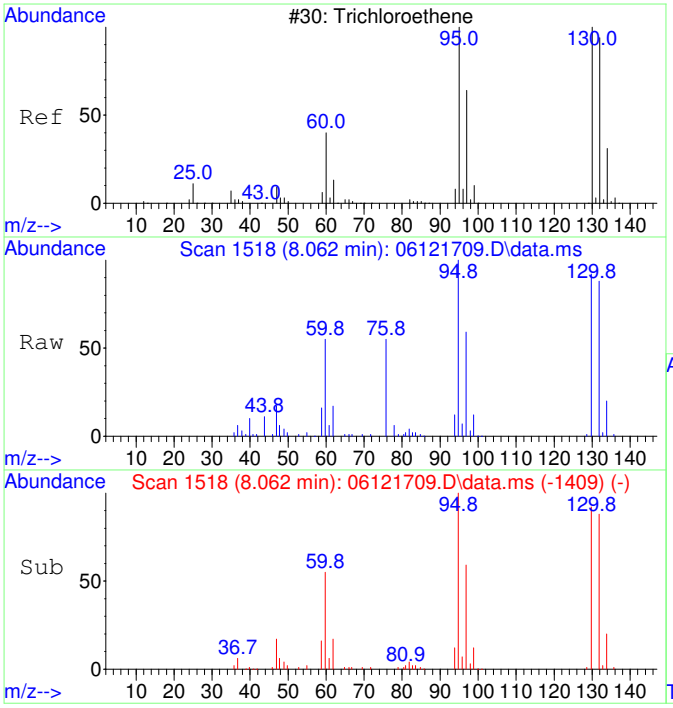


#33
Benzene SCAN
Concen: 1069.88 ug/L
RT: 6.990 min Scan# 1329
Delta R.T. -0.012 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 78 Resp: 103084

Ion	Ratio	Lower	Upper
78	100		
77	20.3	0.0	55.2
51	22.8	0.0	52.4
52	23.3	0.0	53.3

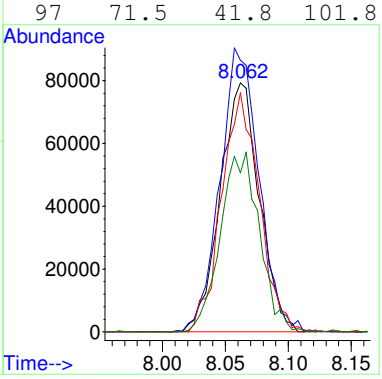


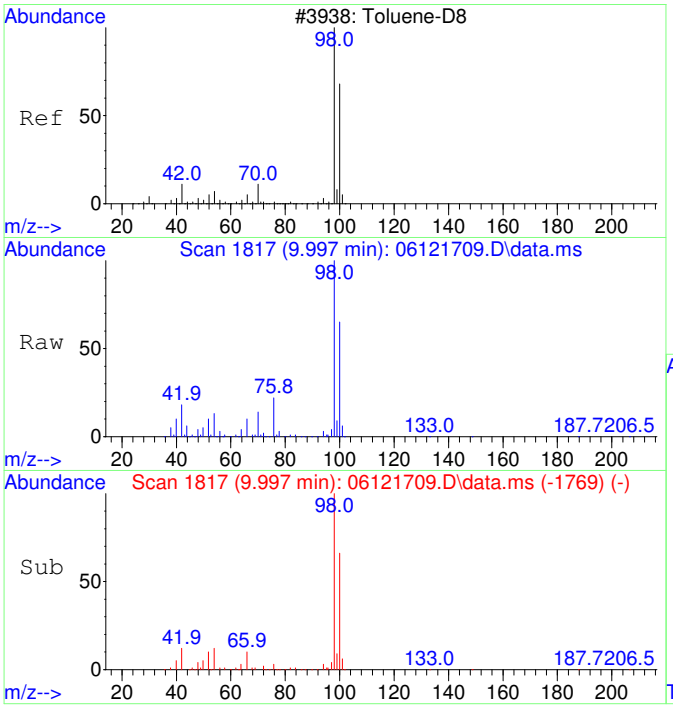


#35
Trichloroethene SCAN
Concen: 7720.62 ug/L
RT: 8.062 min Scan# 1518
Delta R.T. 0.000 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion:130 Resp: 172267

Ion	Ratio	Lower	Upper
130	100		
95	113.0	76.1	136.1
132	92.3	65.6	125.6
97	71.5	41.8	101.8

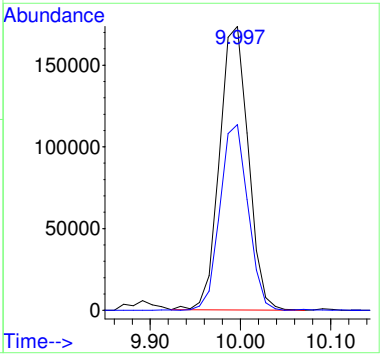


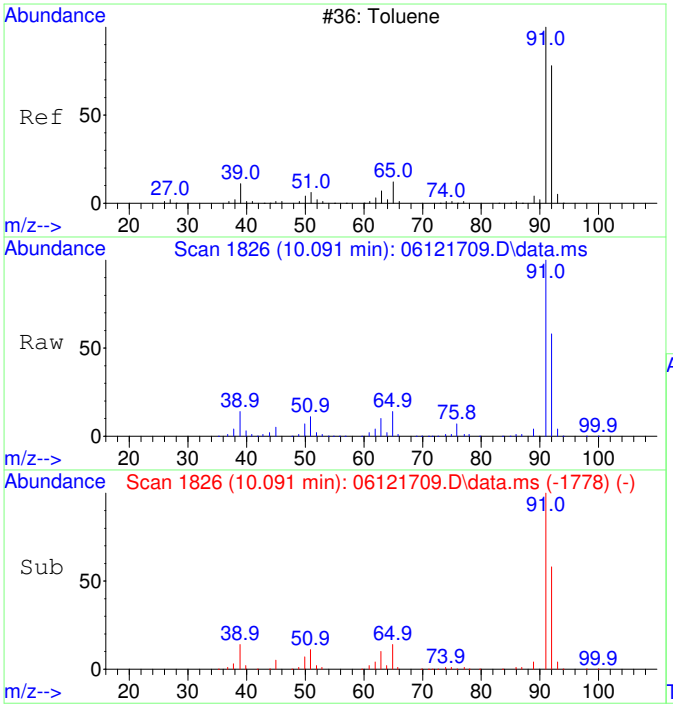


#36
Toluene-d8 SCAN
Concen: 5108.20 ug/L
RT: 9.997 min Scan# 1817
Delta R.T. 0.000 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 98 Resp: 383703

Ion	Ratio	Lower	Upper
98	100		
100	63.9	36.2	96.2

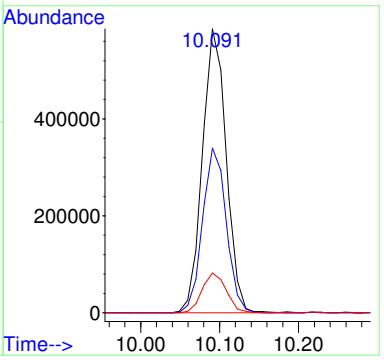


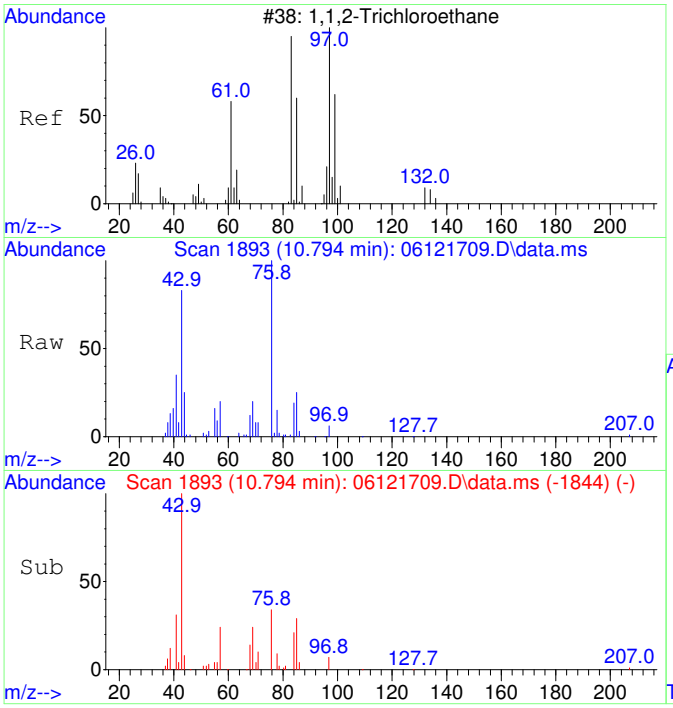


#37
Toluene SCAN
Concen: 12267.84 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 91 Resp: 1229060

Ion	Ratio	Lower	Upper
91	100		
92	57.7	29.2	89.2
65	14.2	0.0	44.3

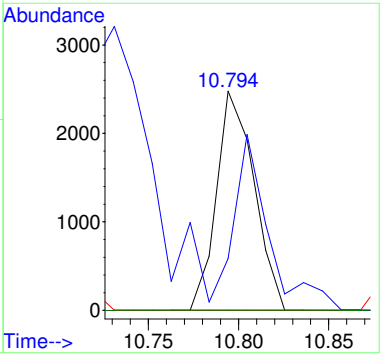


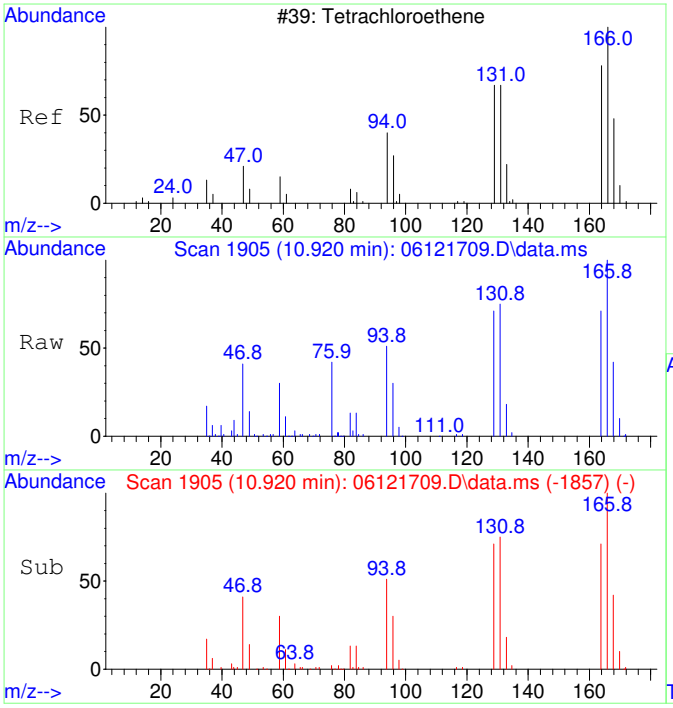


#38
1,1,2-Trichloroethane SCAN
Concen: 159.15 ug/L
RT: 10.794 min Scan# 1893
Delta R.T. 0.011 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 97 Resp: 3591

Ion	Ratio	Lower	Upper
97	100		
83	69.1	57.8	117.8
61	0.0	48.6	108.6#
99	0.0	32.7	92.7#

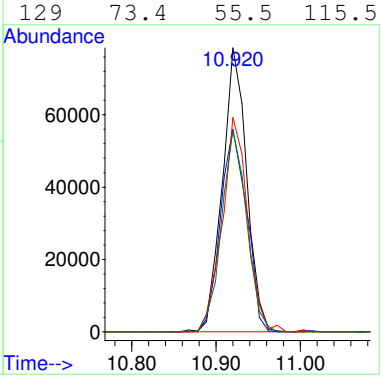


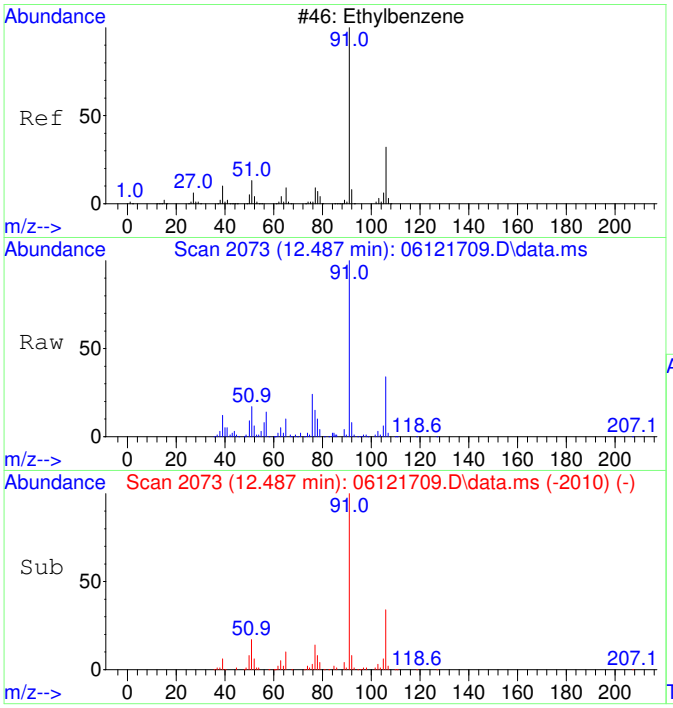


#39
Tetrachloroethene SCAN
Concen: 7668.84 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion:166 Resp: 157510

Ion	Ratio	Lower	Upper
166	100		
164	77.0	45.7	105.7
131	78.3	44.8	104.8
129	73.4	55.5	115.5

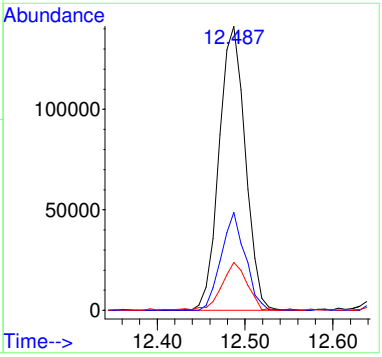


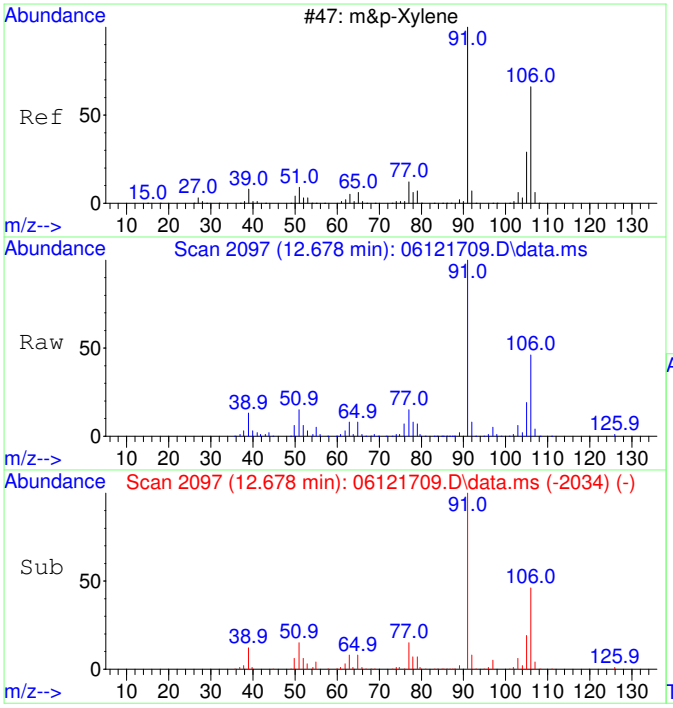


#42
Ethylbenzene SCAN
Concen: 2608.09 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. 0.000 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 91 Resp: 292572

Ion	Ratio	Lower	Upper
91	100		
106	31.6	0.0	59.8
51	15.9	0.0	45.5

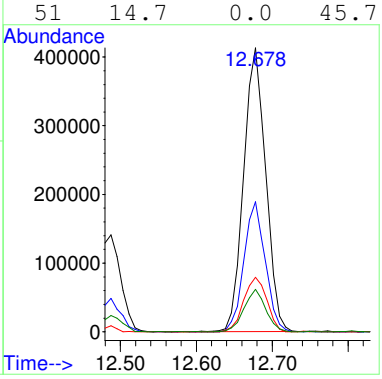


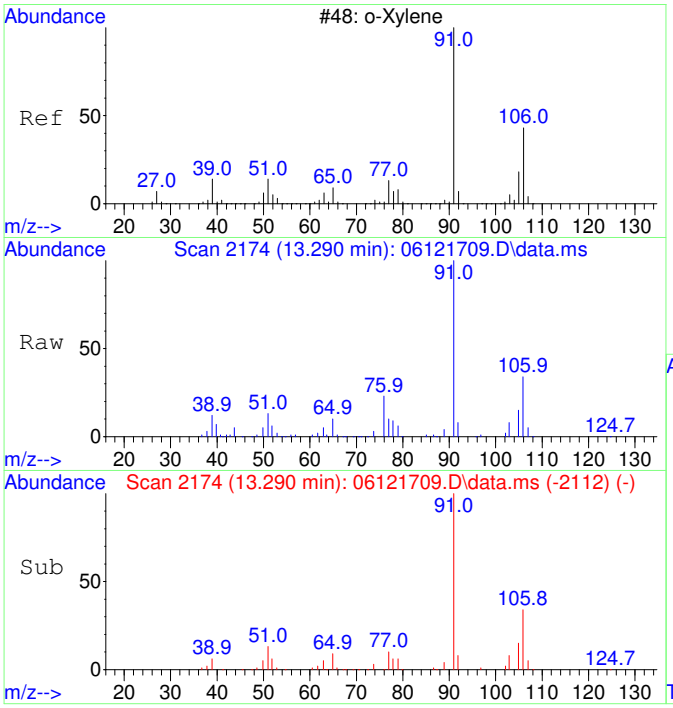


#43
m&p-Xylene SCAN
Concen: 4774.82 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 91 Resp: 836301

Ion	Ratio	Lower	Upper
91	100		
106	44.4	18.5	78.5
105	20.1	0.0	51.3
51	14.7	0.0	45.7

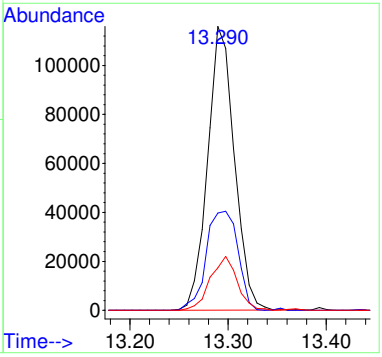


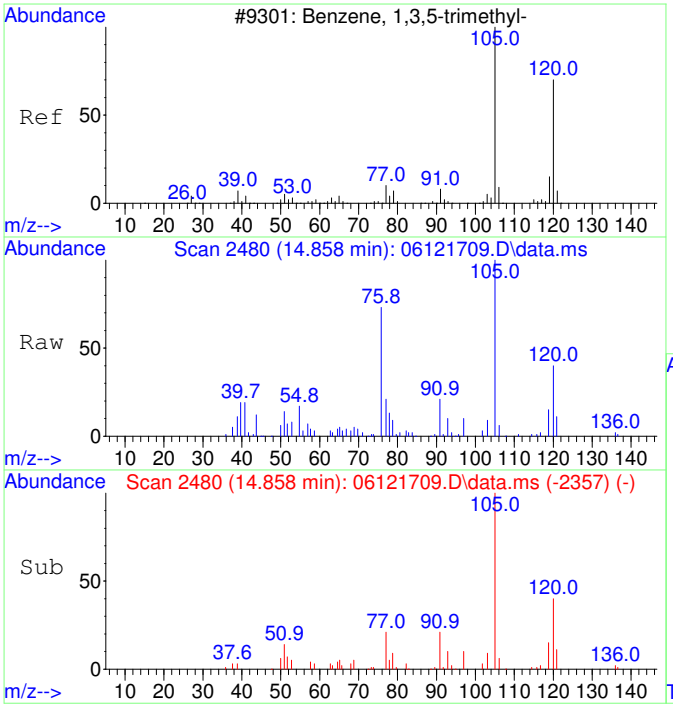


#44
o-Xylene SCAN
Concen: 2425.64 ug/L
RT: 13.290 min Scan# 2174
Delta R.T. -0.008 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion: 91 Resp: 218772

Ion	Ratio	Lower	Upper
91	100		
106	41.3	15.5	75.5
105	19.1	0.0	54.1

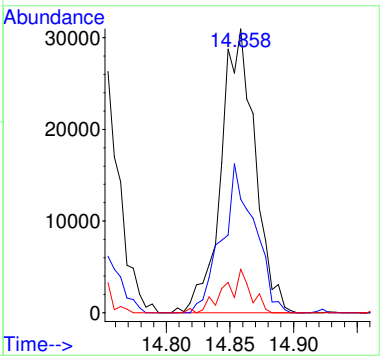


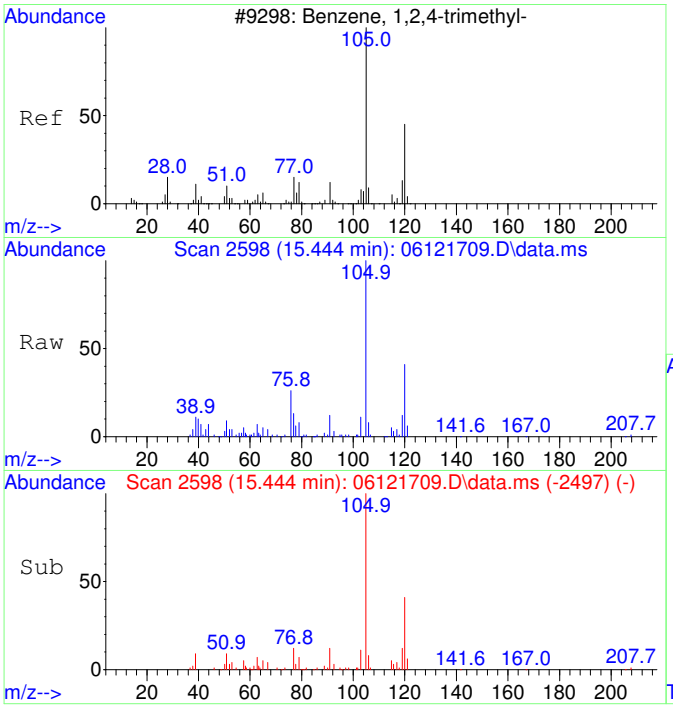


#46
1,3,5-Trimethylbenzene SCAN
Concen: 673.87 ug/L
RT: 14.858 min Scan# 2480
Delta R.T. 0.001 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion:105 Resp: 57651

Ion	Ratio	Lower	Upper
105	100		
120	50.2	17.3	77.3
119	11.7	0.0	42.7

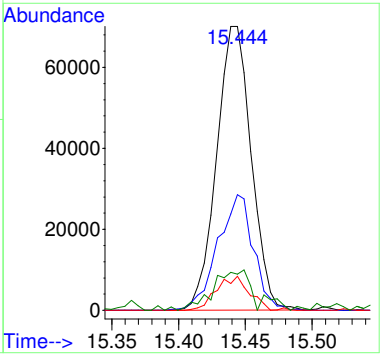




#47
1,2,4-Trimethylbenzene SCAN
Concen: 1420.68 ug/L
RT: 15.444 min Scan# 2598
Delta R.T. 0.001 min
Lab File: 06121709.D
Acq: 12 Jun 2017 14:55

Tgt Ion:105 Resp: 126658

Ion	Ratio	Lower	Upper
105	100		
120	42.1	12.9	72.9
119	11.2	0.0	40.5
77	14.5	0.0	43.3



1706012-06RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121710.D
Acq On : 12 Jun 2017 15:19
InstName : AG5975C
Operator : RH
Sample : 1706012-06RE1
Misc : 10 UL - 1 ML
ALS Vial : 9 Sample Multiplier: 100

Quant Time: Jun 13 11:03:23 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

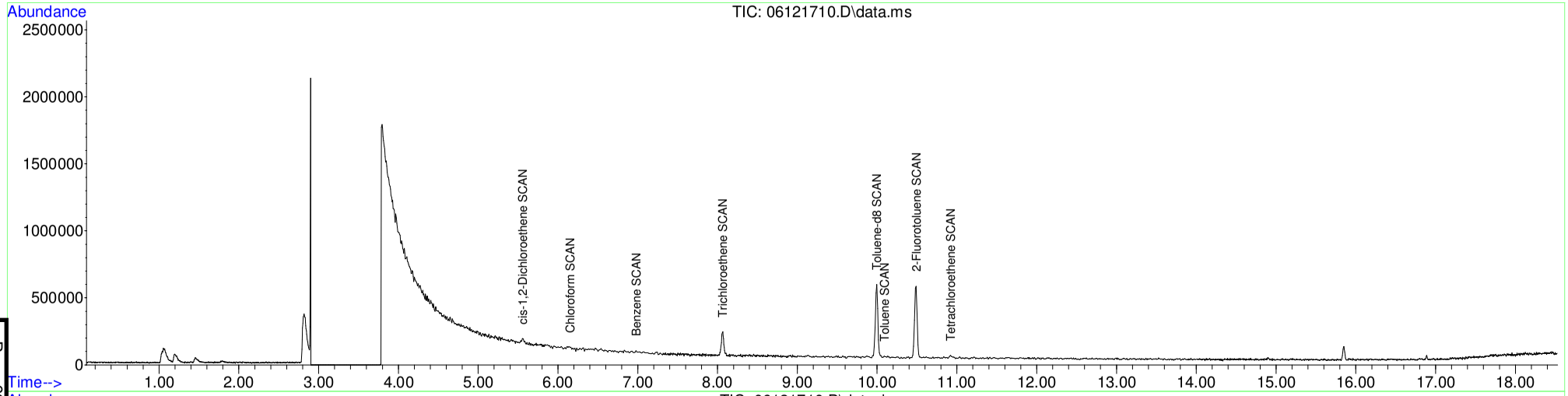
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.480	109	784712	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	653645	5086.28 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 101.73%		
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.722	61	1786	28.86 ug/L	83
3] trans-1,2-Dichloroethene	3.856	61	2129	31.74 ug/L	54
5] cis-1,2-Dichloroethene	5.561	61	27096	392.06 ug/L	100
6] Chloroform	6.139	83	12980	194.09 ug/L	99
9] Benzene	6.991	78	5721	36.73 ug/L	100
11] Trichloroethene	8.063	130	110302	2753.91 ug/L	100
13] Toluene	10.092	91	6554	38.51 ug/L	100
15] Tetrachloroethene	10.921	166	9662	221.51 ug/L	99
25) 2-Fluorotoluene SCAN	10.490	109	449686	4726.53 ug/L	98
29) cis-1,2-Dichloroethene...	5.560	61	18948	384.48 ug/L	84
30) Chloroform SCAN	6.150	83	9582	215.62 ug/L	82
33) Benzene SCAN	6.977	78	17850	177.23 ug/L #	68
35) Trichloroethene SCAN	8.066	130	61955	2656.25 ug/L	98
36) Toluene-d8 SCAN	9.996	98	393869	5016.11 ug/L	96
37) Toluene SCAN	10.091	91	6276	59.93 ug/L #	44
39) Tetrachloroethene SCAN	10.920	166	4403	205.07 ug/L #	71

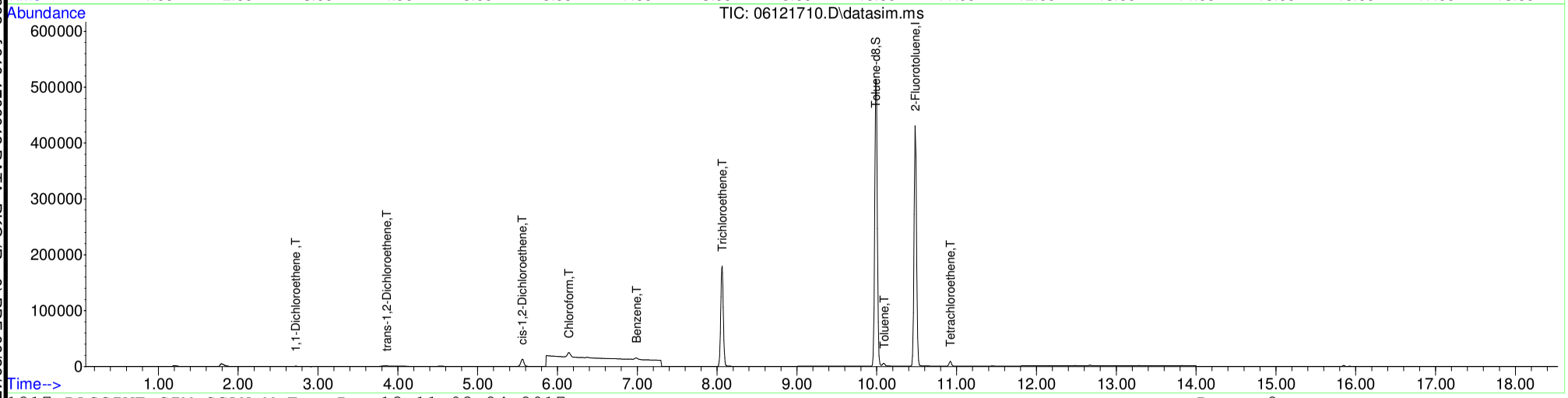
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121710.D
Acq On : 12 Jun 2017 15:19
InstName : AG5975C
Operator : RH
Sample : 1706012-06RE1
Misc : 10 UL - 1 ML
ALS Vial : 9 Sample Multiplier: 100

Quant Time: Jun 13 11:03:23 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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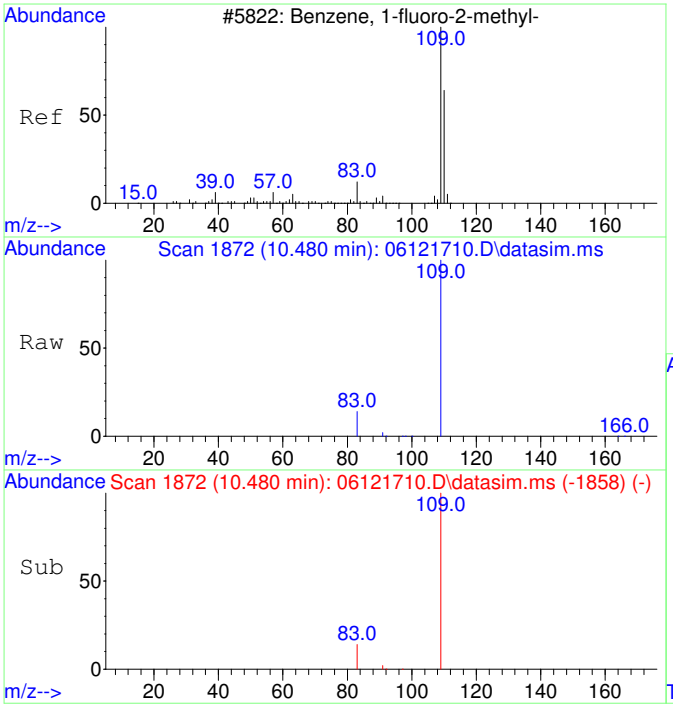
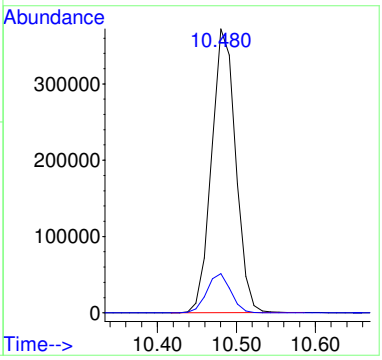
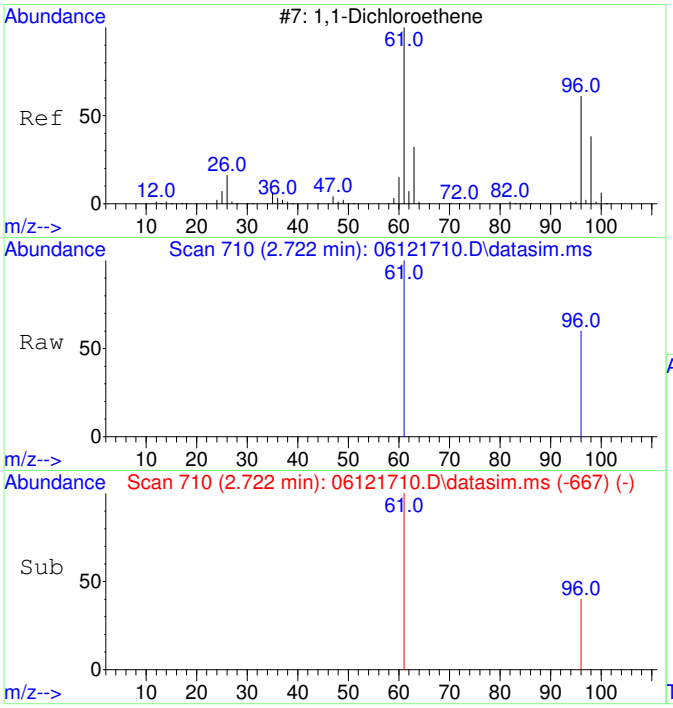


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion:109 Resp: 784712

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.4

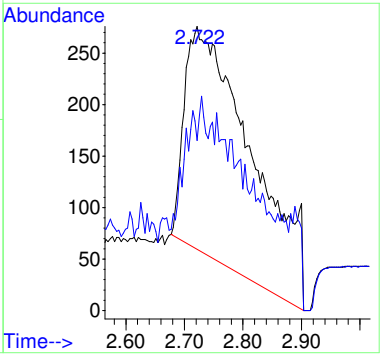


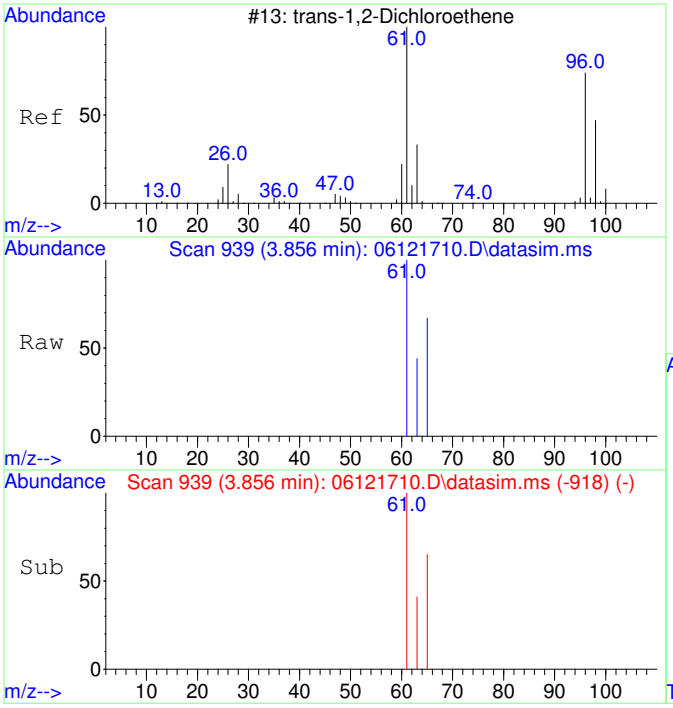


#2
1,1-Dichloroethene
Concen: 28.86 ug/L
RT: 2.722 min Scan# 710
Delta R.T. 0.011 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion: 61 Resp: 1786

Ion	Ratio	Lower	Upper
61	100		
96	63.7	21.8	81.8

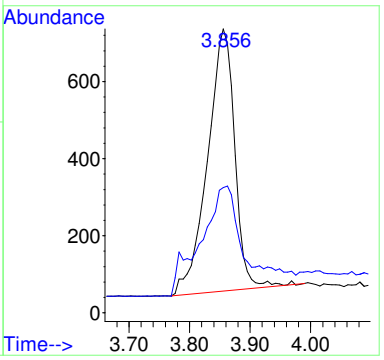


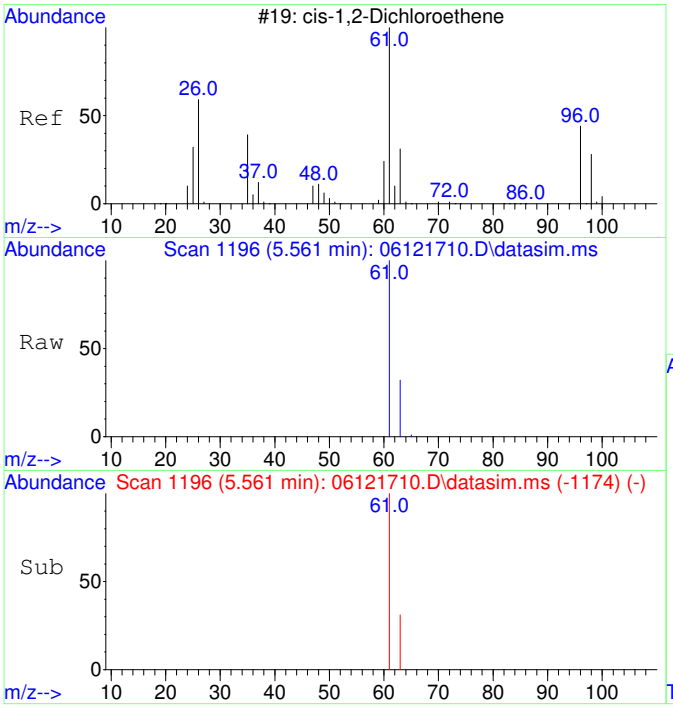


#3
trans-1,2-Dichloroethene
Concen: 31.74 ug/L
RT: 3.856 min Scan# 939
Delta R.T. -0.013 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion: 61 Resp: 2129

Ion	Ratio	Lower	Upper
61	100		
63	56.0	1.0	61.0

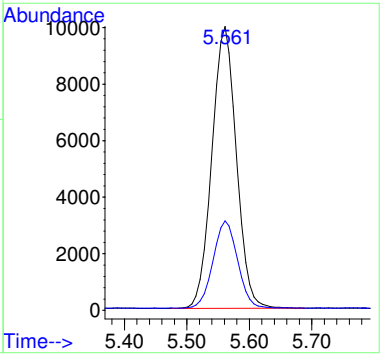


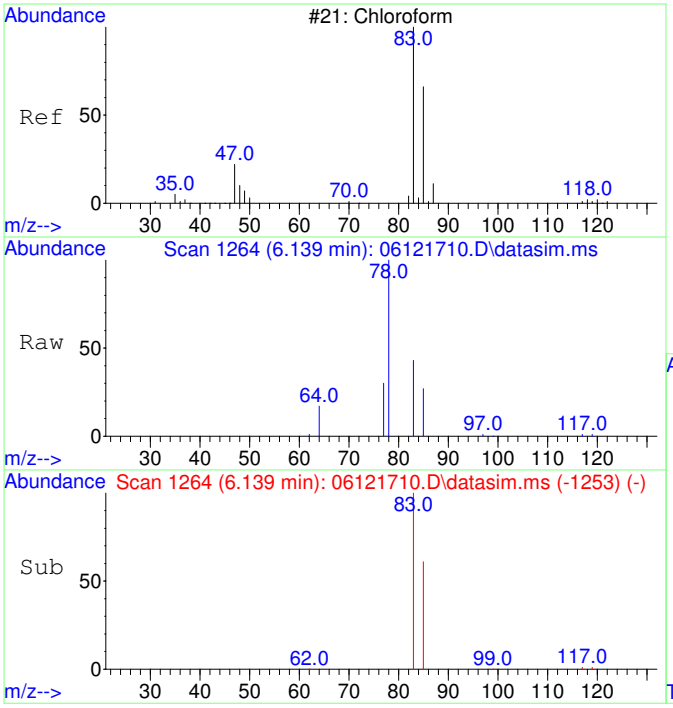


#5
cis-1,2-Dichloroethene
Concen: 392.06 ug/L
RT: 5.561 min Scan# 1196
Delta R.T. -0.007 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion: 61 Resp: 27096

Ion	Ratio	Lower	Upper
61	100		
63	31.1	0.9	60.9

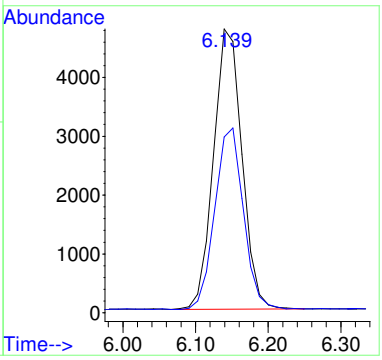


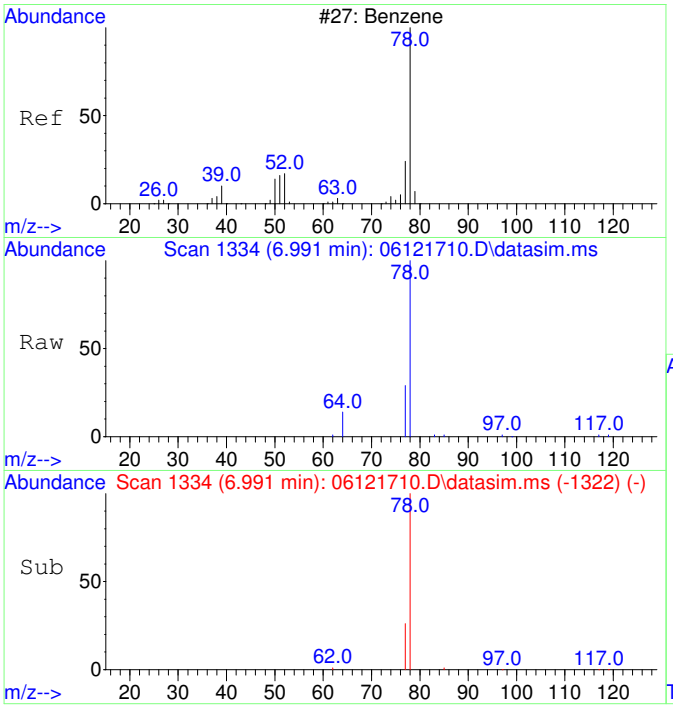


#6
Chloroform
Concen: 194.09 ug/L
RT: 6.139 min Scan# 1264
Delta R.T. -0.012 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion: 83 Resp: 12980

Ion	Ratio	Lower	Upper
83	100		
85	64.8	33.7	93.7

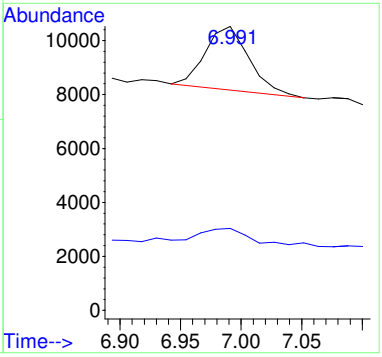


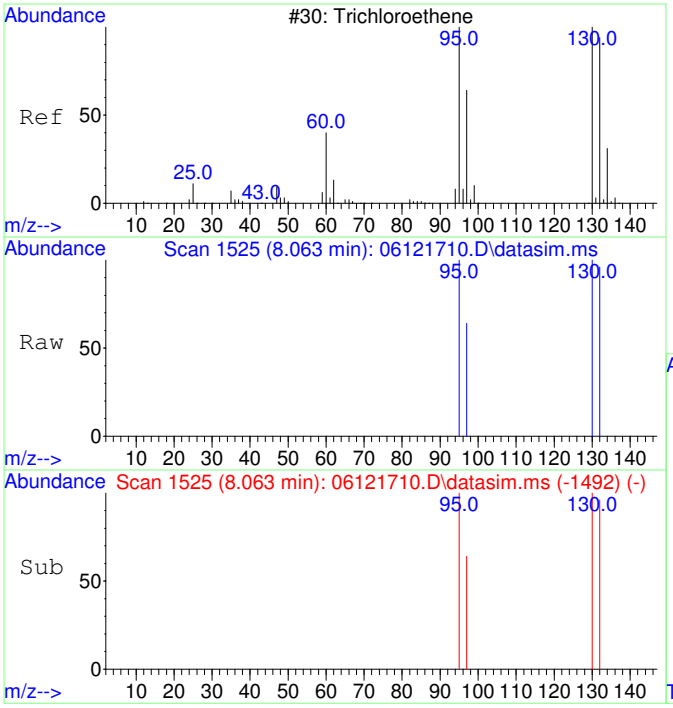


#9
Benzene
Concen: 36.73 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. -0.000 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion: 78 Resp: 5721

Ion	Ratio	Lower	Upper
78	100		
77	23.1	0.0	53.0

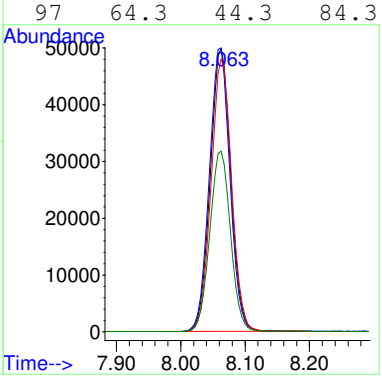


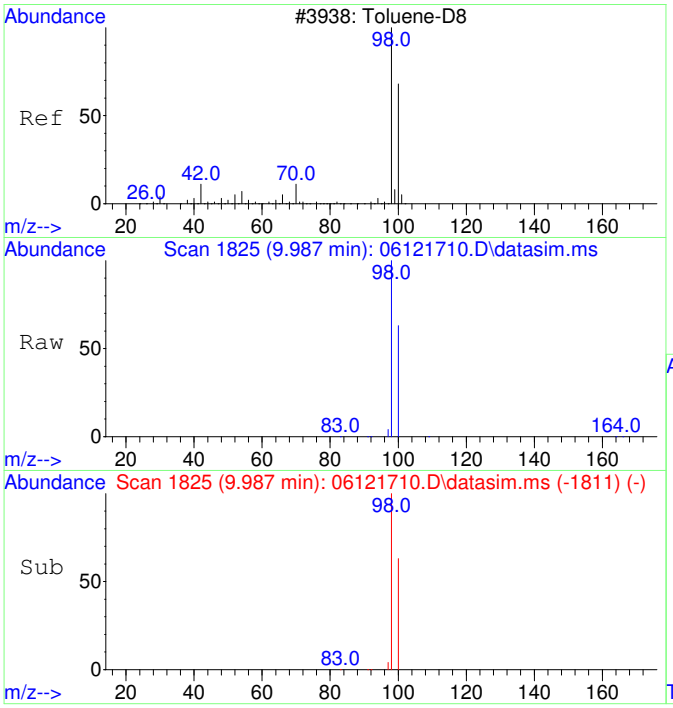


#11
Trichloroethene
Concen: 2753.91 ug/L
RT: 8.063 min Scan# 1525
Delta R.T. -0.000 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion:130 Resp: 110302

Ion	Ratio	Lower	Upper
130	100		
95	100.4	69.8	129.8
132	96.2	76.4	116.4
97	64.3	44.3	84.3

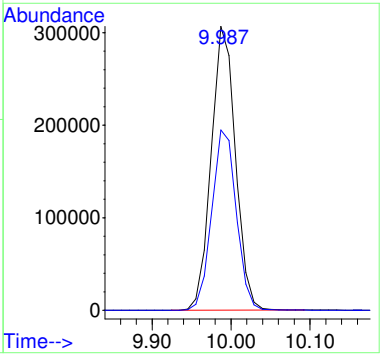


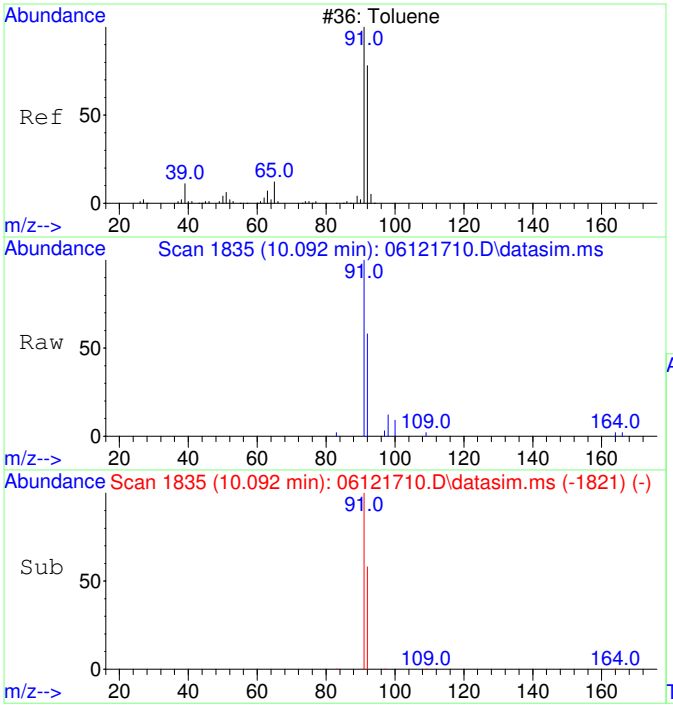


#12
Toluene-d8
Concen: 5086.28 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. -0.000 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion: 98 Resp: 653645

Ion	Ratio	Lower	Upper
98	100		
100	63.9	34.2	94.2

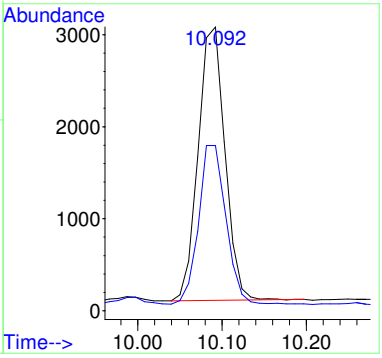


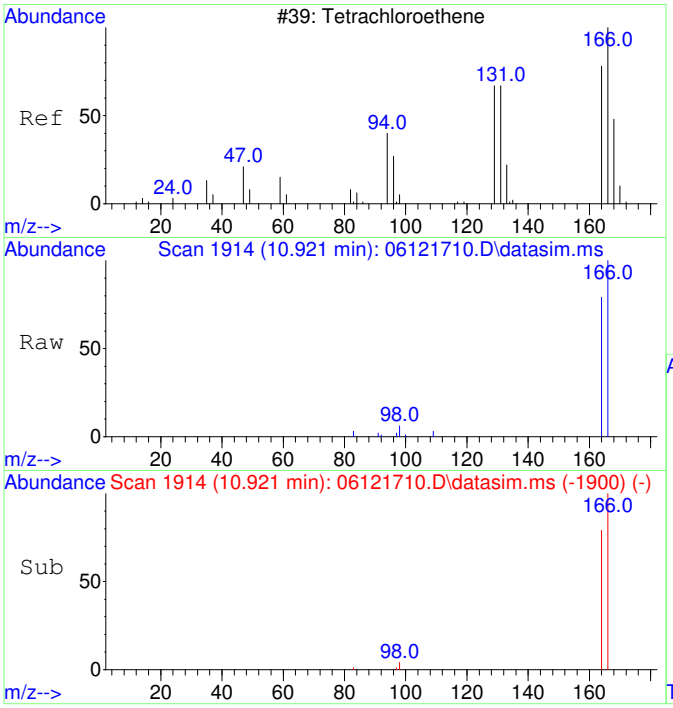


#13
Toluene
Concen: 38.51 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. -0.000 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion: 91 Resp: 6554

Ion	Ratio	Lower	Upper
91	100		
92	58.6	28.4	88.4

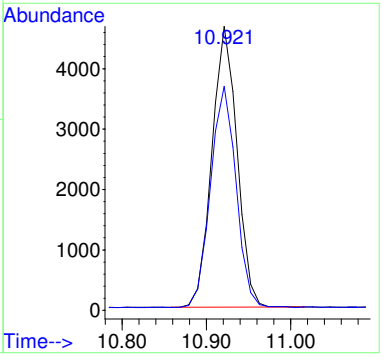


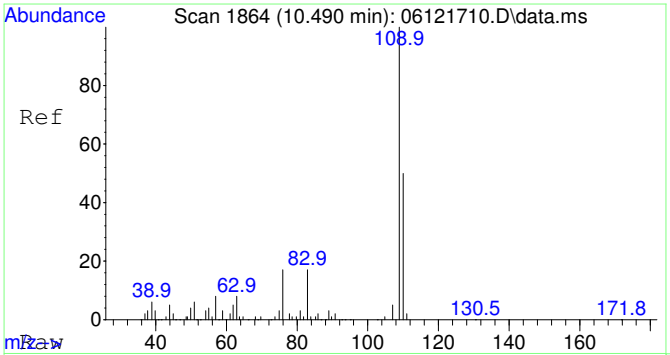


#15
Tetrachloroethene
Concen: 221.51 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. -0.000 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion:166 Resp: 9662

Ion	Ratio	Lower	Upper
166	100		
164	78.9	48.1	108.1

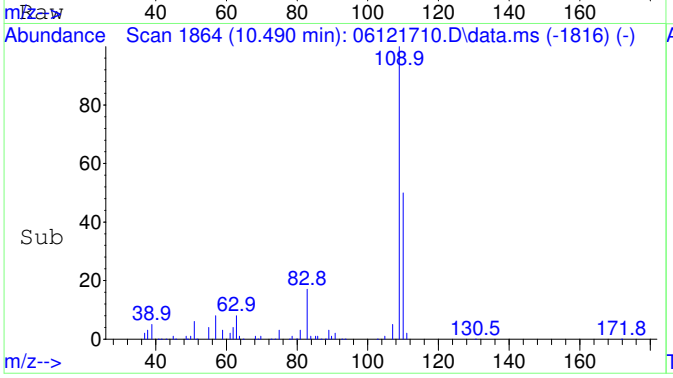


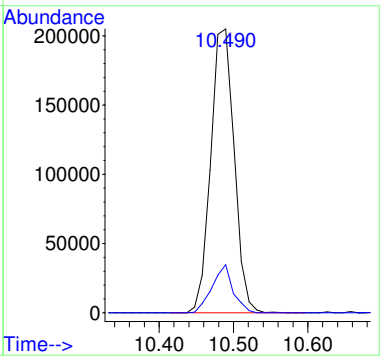


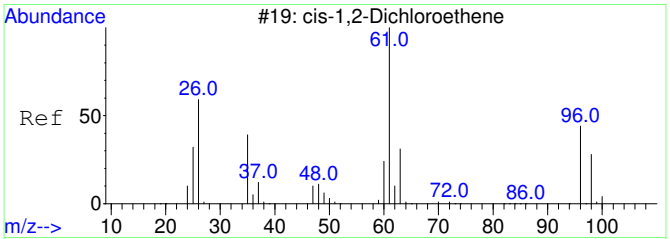
#25
2-Fluorotoluene SCAN
Concen: 4726.53 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. -0.000 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion:109 Resp: 449686

Ion	Ratio	Lower	Upper
109	100		
83	15.1	0.0	46.1



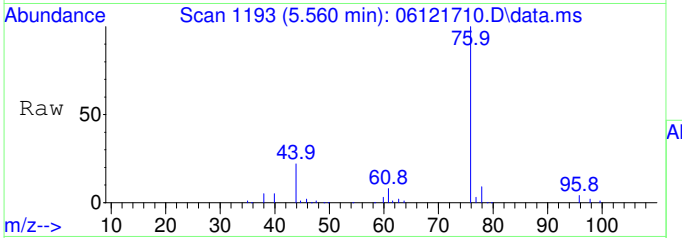


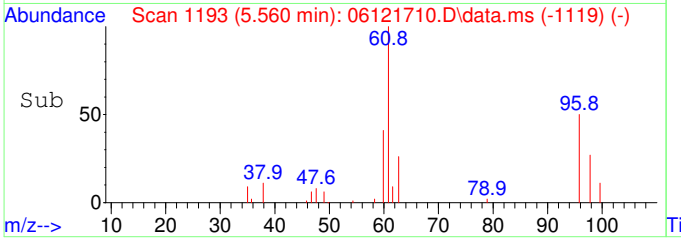


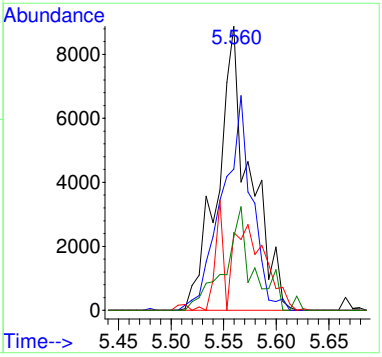
#29
cis-1,2-Dichloroethene SCAN
Concen: 384.48 ug/L
RT: 5.560 min Scan# 1193
Delta R.T. -0.007 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

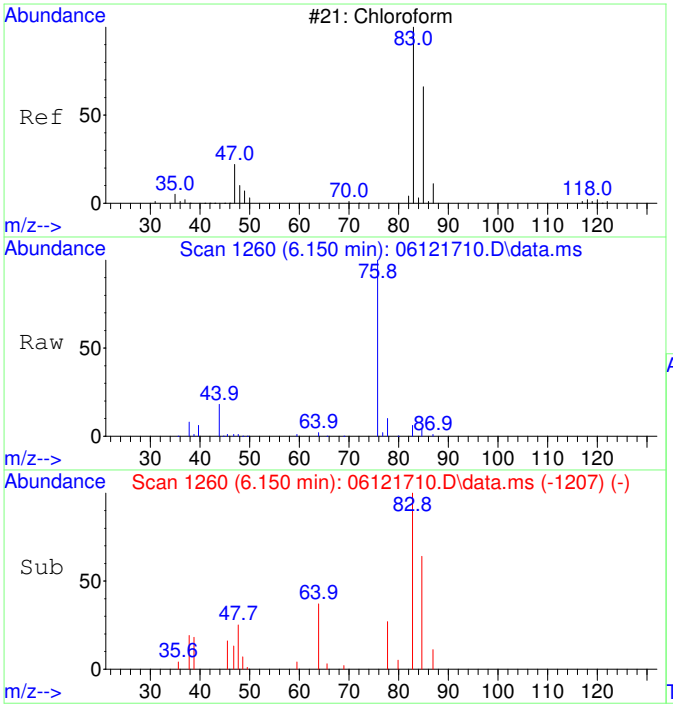
Tgt Ion: 61 Resp: 18948

Ion	Ratio	Lower	Upper
61	100		
96	69.5	17.5	77.5
98	29.8	1.9	61.9
63	31.5	0.1	60.1





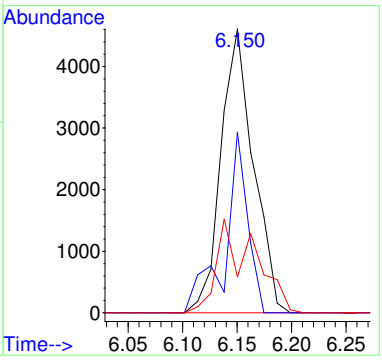


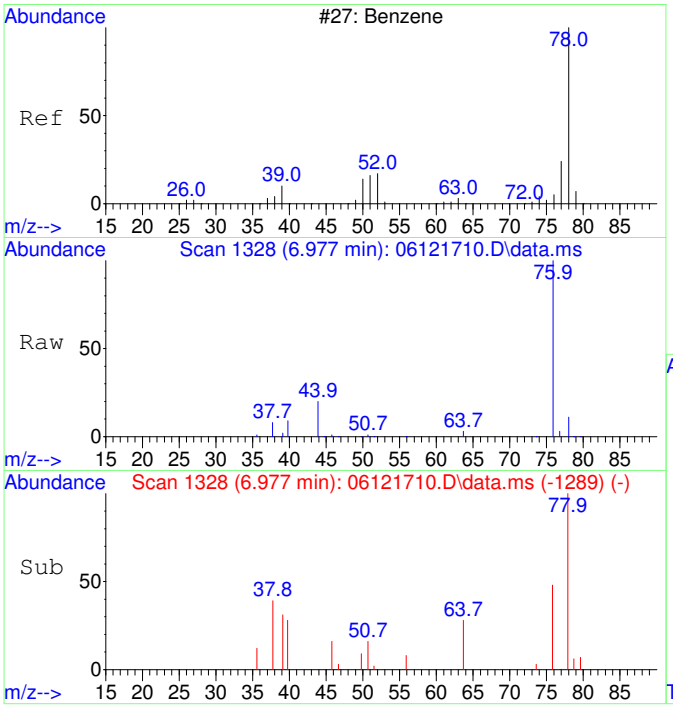


#30
Chloroform SCAN
Concen: 215.62 ug/L
RT: 6.150 min Scan# 1260
Delta R.T. -0.000 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion: 83 Resp: 9582

Ion	Ratio	Lower	Upper
83	100		
85	44.0	31.2	91.2
47	38.3	3.2	63.2

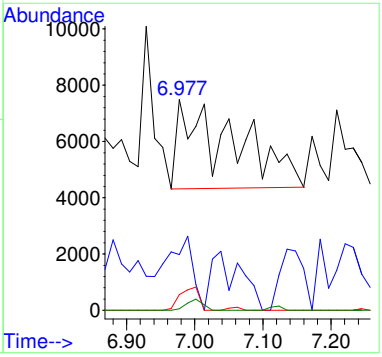


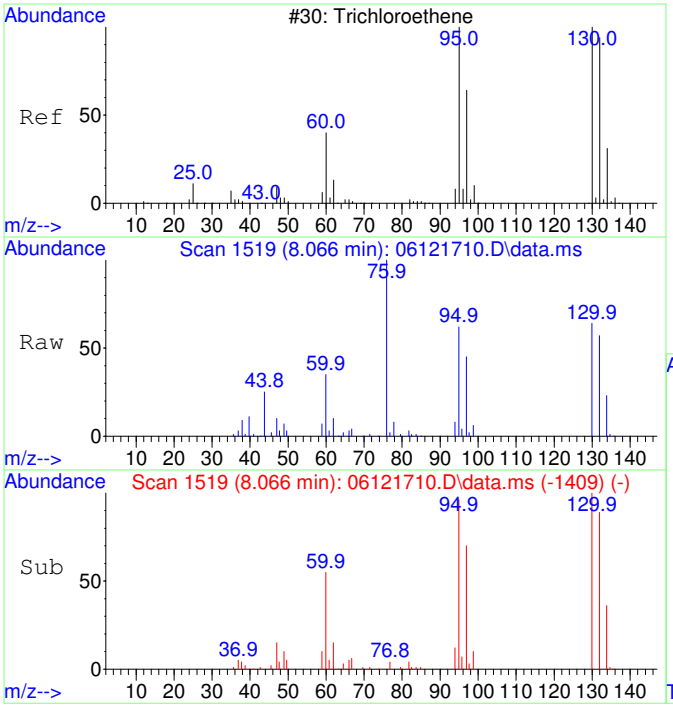


#33
Benzene SCAN
Concen: 177.23 ug/L
RT: 6.977 min Scan# 1328
Delta R.T. -0.024 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion: 78 Resp: 17850

Ion	Ratio	Lower	Upper
78	100		
77	23.2	0.0	55.2
51	0.0	0.0	52.4
52	0.0	0.0	53.3

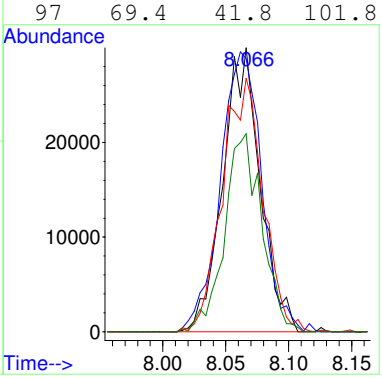


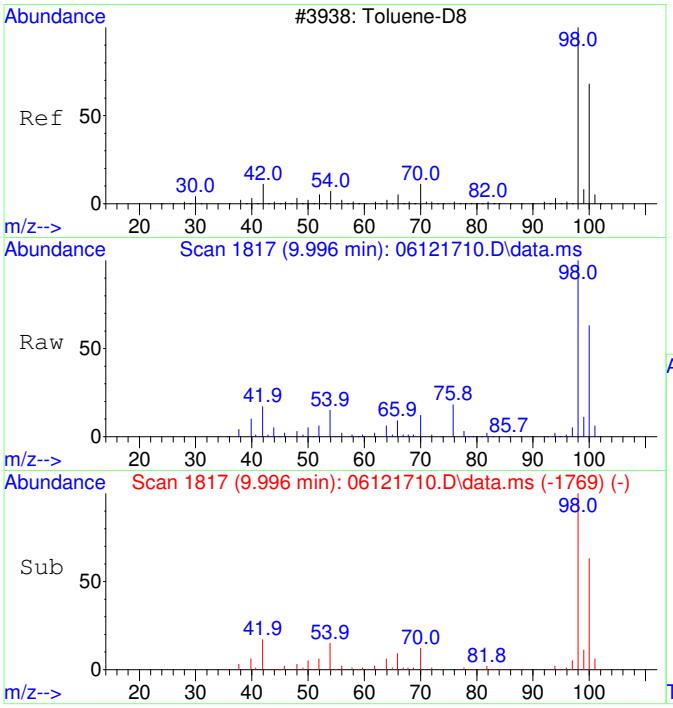


#35
Trichloroethene SCAN
Concen: 2656.25 ug/L
RT: 8.066 min Scan# 1519
Delta R.T. 0.004 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion:130 Resp: 61955

Ion	Ratio	Lower	Upper
130	100		
95	107.9	76.1	136.1
132	97.1	65.6	125.6
97	69.4	41.8	101.8

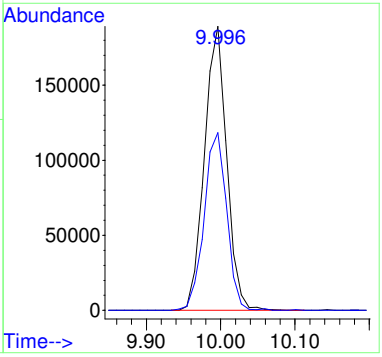


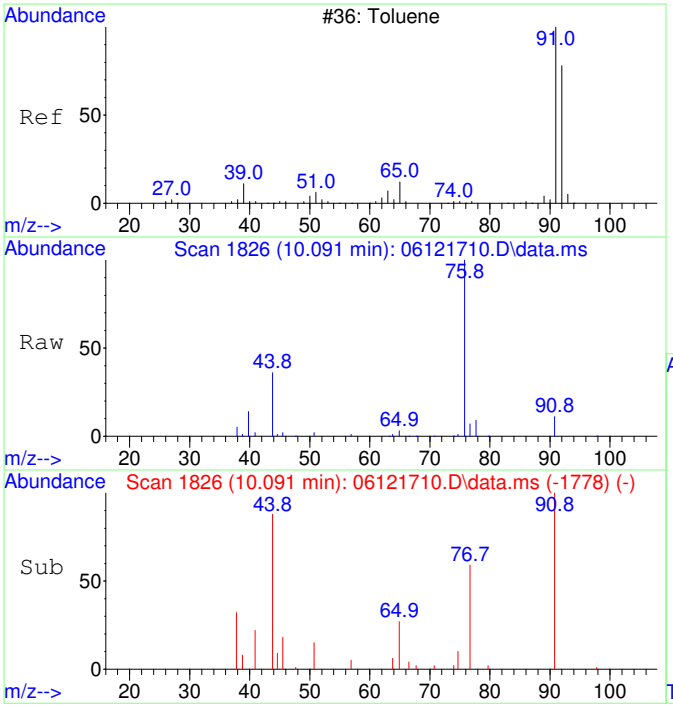


#36
Toluene-d8 SCAN
Concen: 5016.11 ug/L
RT: 9.996 min Scan# 1817
Delta R.T. -0.000 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion: 98 Resp: 393869

Ion	Ratio	Lower	Upper
98	100		
100	63.4	36.2	96.2

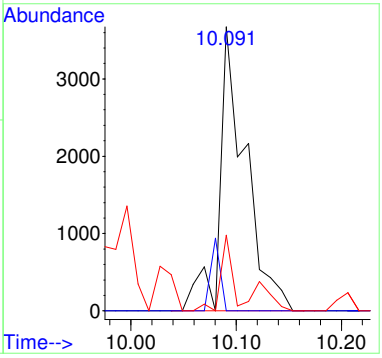


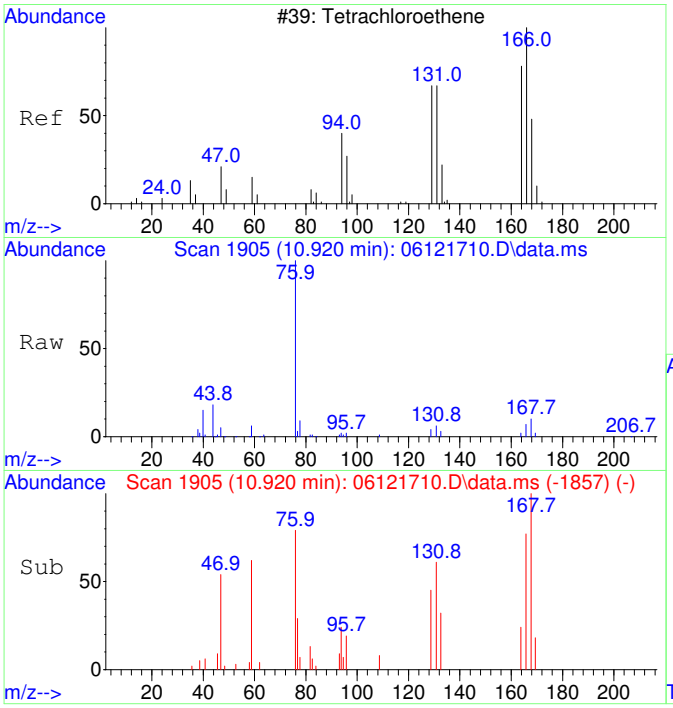


#37
Toluene SCAN
Concen: 59.93 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. -0.000 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion: 91 Resp: 6276

Ion	Ratio	Lower	Upper
91	100		
92	9.4	29.2	89.2#
65	9.8	0.0	44.3

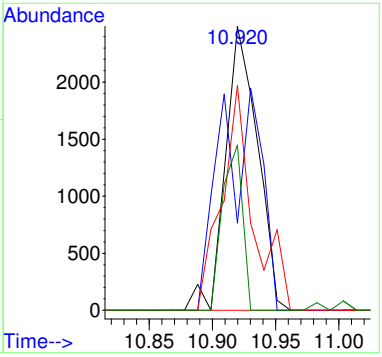




#39
Tetrachloroethene SCAN
Concen: 205.07 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. -0.000 min
Lab File: 06121710.D
Acq: 12 Jun 2017 15:19

Tgt Ion:166 Resp: 4403

Ion	Ratio	Lower	Upper
166	100		
164	98.5	45.7	105.7
131	78.2	44.8	104.8
129	36.5	55.5	115.5#



1706012-07RE1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121711.D
Acq On : 12 Jun 2017 15:43
InstName : AG5975C
Operator : RH
Sample : 1706012-07RE1
Misc : 100 UL - 1 ML
ALS Vial : 10 Sample Multiplier: 10

Quant Time: Jun 13 11:03:28 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

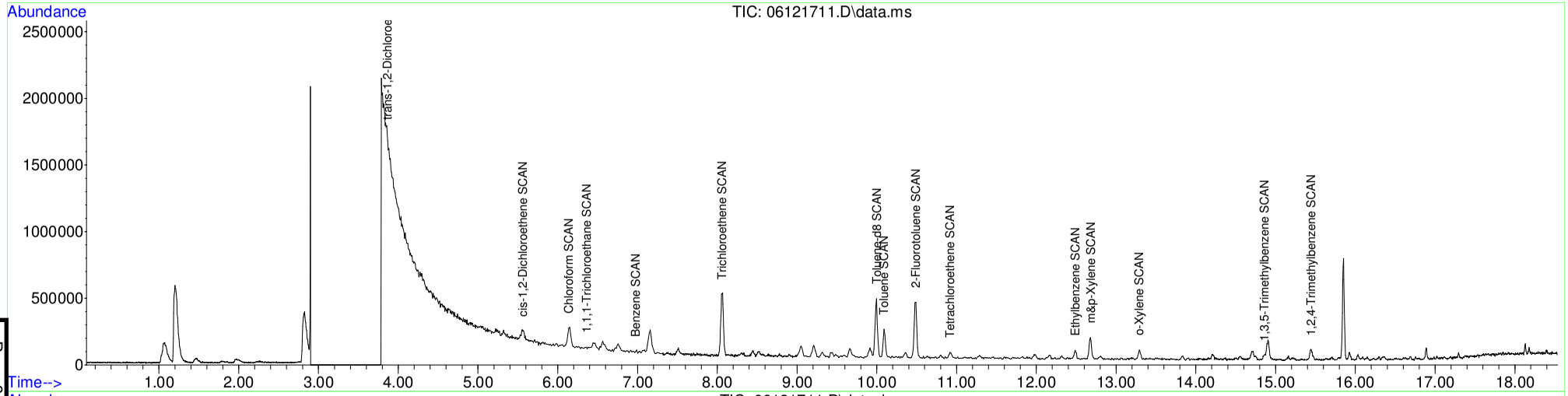
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.480	109	624186	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	9.987	98	519445	5081.53	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 101.63%			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	2.733	61	8768	178.11	ug/L	98
3] trans-1,2-Dichloroethene	3.849	61	8237	154.38	ug/L	86
4] 1,1-Dichloroethane	4.539	63	5396	93.83	ug/L	99
5] cis-1,2-Dichloroethene	5.555	61	104116	1893.93	ug/L	100
6] Chloroform	6.140	83	212820	4000.73	ug/L	99
7] 1,1,1-Trichloroethane	6.371	97	4065	83.20	ug/L	99
9] Benzene	6.991	78	12869	103.88	ug/L	92
11] Trichloroethene	8.058	130	317659	9970.68	ug/L	100
13] Toluene	10.082	91	264355	1952.85	ug/L	100
15] Tetrachloroethene	10.921	166	25449	733.48	ug/L	99
18] Ethylbenzene	12.481	91	60697	416.63	ug/L	100
19] m&p-Xylene	12.671	91	180963	1583.41	ug/L	99
20] o-Xylene	13.291	91	70744	598.53	ug/L	100
22] 1,3,5-Trimethylbenzene	14.854	105	28875	247.42	ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	85903	718.01	ug/L	100
25) 2-Fluorotoluene SCAN	10.490	109	353909	4676.50	ug/L	97
27) trans-1,2-Dichloroethe...	3.861	61	1874	55.15	ug/L #	2
29) cis-1,2-Dichloroethene...	5.560	61	68962	1759.22	ug/L	83
30) Chloroform SCAN	6.138	83	144636	4091.71	ug/L	98
31) 1,1,1-Trichloroethane ...	6.357	97	3277	112.65	ug/L	89
33) Benzene SCAN	6.978	78	9632	120.23	ug/L #	49
35) Trichloroethene SCAN	8.053	130	173980	9377.52	ug/L	95
36) Toluene-d8 SCAN	9.996	98	314217	5030.85	ug/L	98
37) Toluene SCAN	10.091	91	159113	1910.03	ug/L	97
39) Tetrachloroethene SCAN	10.920	166	11223	657.16	ug/L #	82
42) Ethylbenzene SCAN	12.487	91	35763	383.41	ug/L	88
43) m&p-Xylene SCAN	12.678	91	112746	774.17	ug/L	94
44) o-Xylene SCAN	13.290	91	43054	574.10	ug/L	98
46) 1,3,5-Trimethylbenzene...	14.853	105	16619	233.62	ug/L	89
47) 1,2,4-Trimethylbenzene...	15.439	105	47965	647.03	ug/L	86

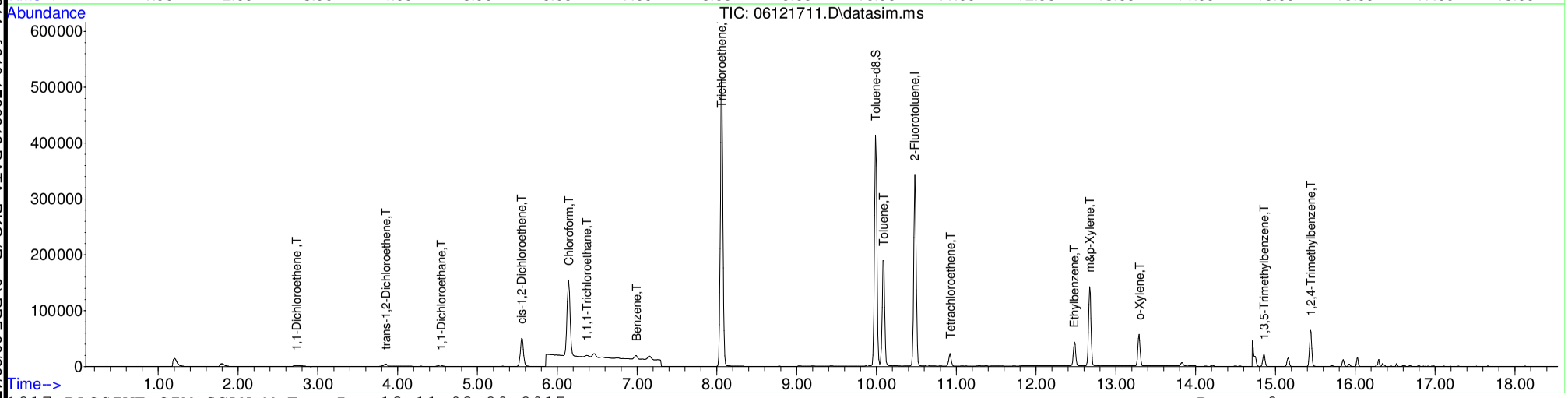
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121711.D
Acq On : 12 Jun 2017 15:43
InstName : AG5975C
Operator : RH
Sample : 1706012-07RE1
Misc : 100 UL - 1 ML
ALS Vial : 10 Sample Multiplier: 10

Quant Time: Jun 13 11:03:28 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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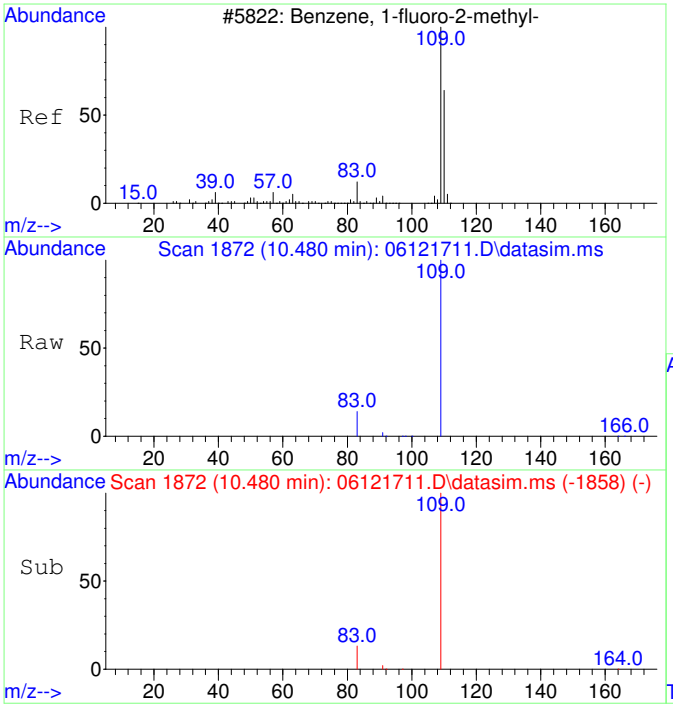
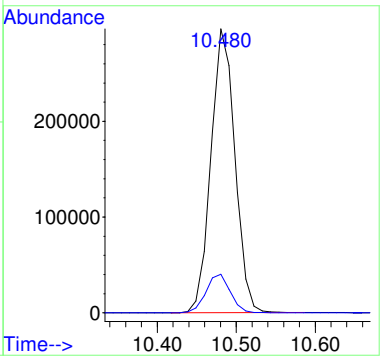
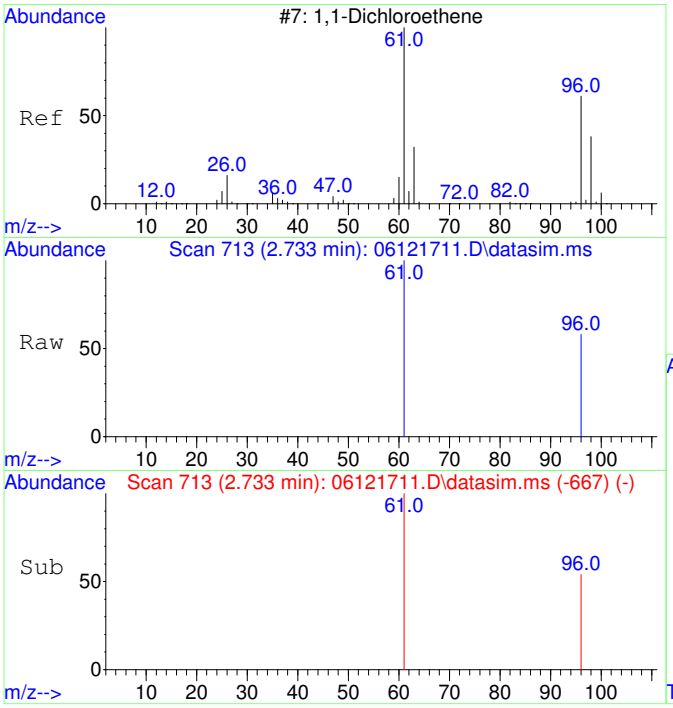


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion:109 Resp: 624186

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.4

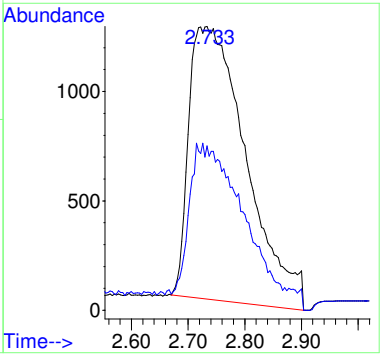


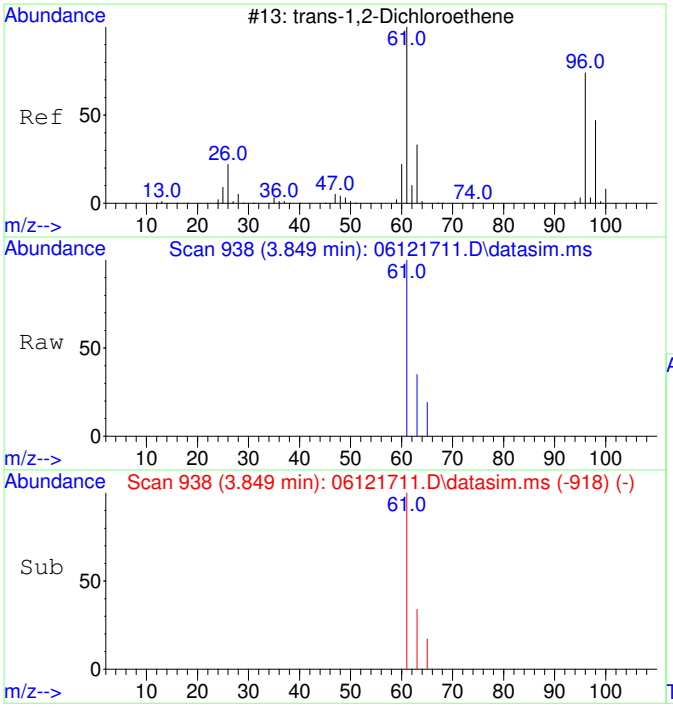


#2
1,1-Dichloroethene
Concen: 178.11 ug/L
RT: 2.733 min Scan# 713
Delta R.T. 0.022 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 61 Resp: 8768

Ion	Ratio	Lower	Upper
61	100		
96	53.1	21.8	81.8

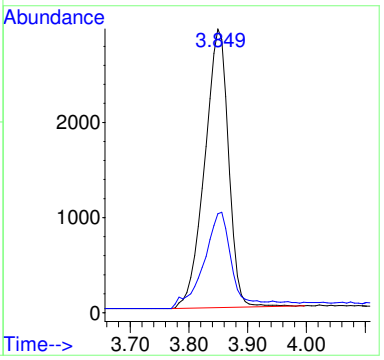


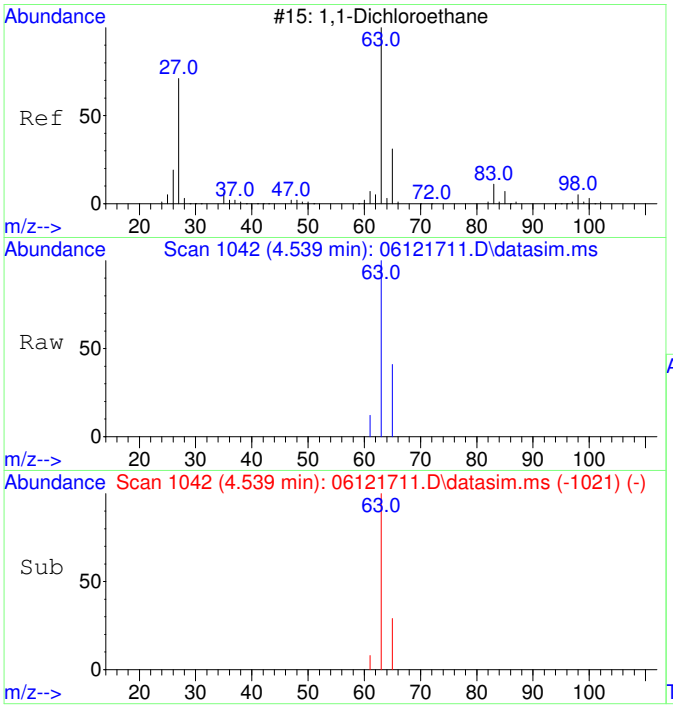


#3
trans-1,2-Dichloroethene
Concen: 154.38 ug/L
RT: 3.849 min Scan# 938
Delta R.T. -0.020 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 61 Resp: 8237

Ion	Ratio	Lower	Upper
61	100		
63	38.6	1.0	61.0

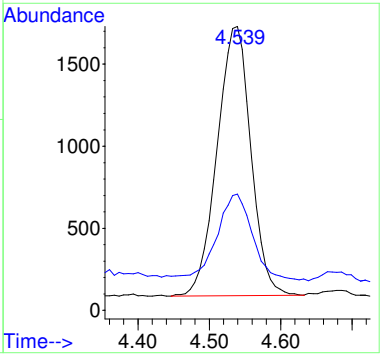


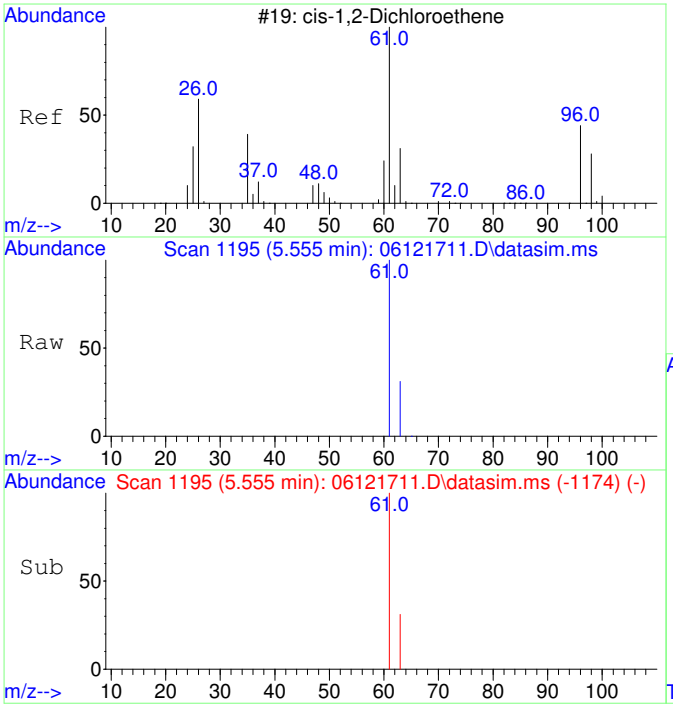


#4
1,1-Dichloroethane
Concen: 93.83 ug/L
RT: 4.539 min Scan# 1042
Delta R.T. -0.013 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 63 Resp: 5396

Ion	Ratio	Lower	Upper
63	100		
65	30.7	0.4	60.4

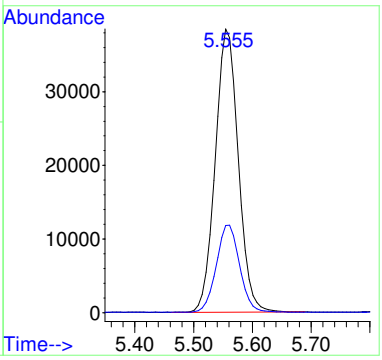


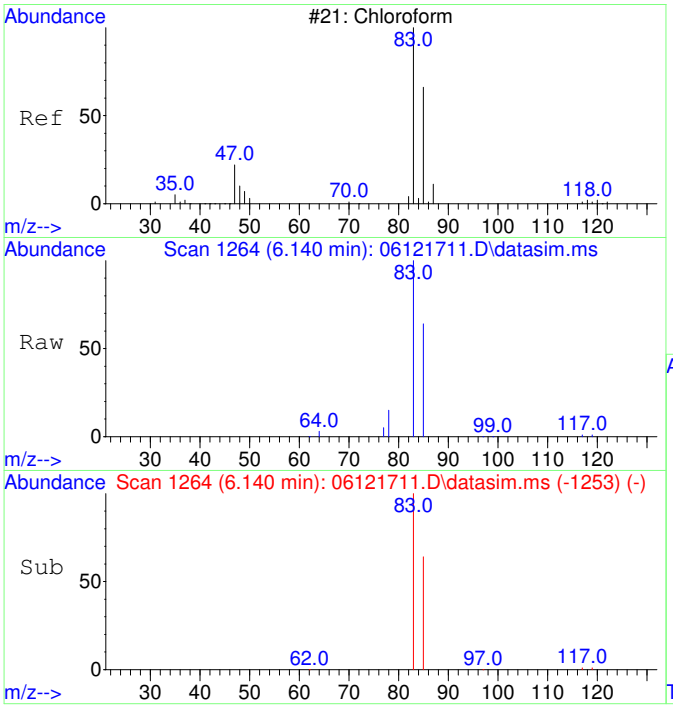


#5
cis-1,2-Dichloroethene
Concen: 1893.93 ug/L
RT: 5.555 min Scan# 1195
Delta R.T. -0.013 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 61 Resp: 104116

Ion	Ratio	Lower	Upper
61	100		
63	31.0	0.9	60.9

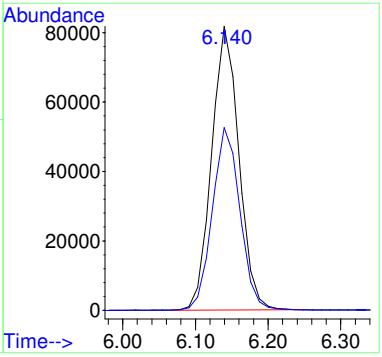


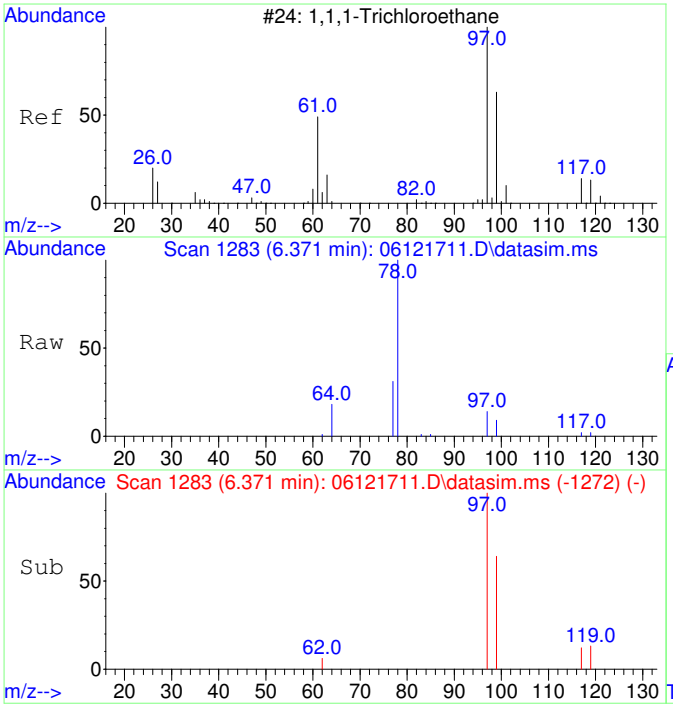


#6
Chloroform
Concen: 4000.73 ug/L
RT: 6.140 min Scan# 1264
Delta R.T. -0.012 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 83 Resp: 212820

Ion	Ratio	Lower	Upper
83	100		
85	64.6	33.7	93.7

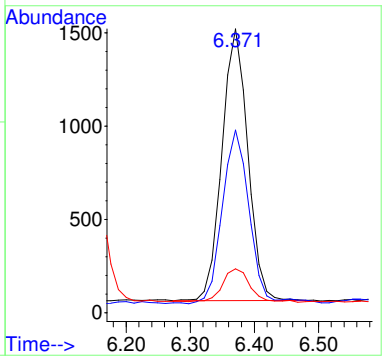


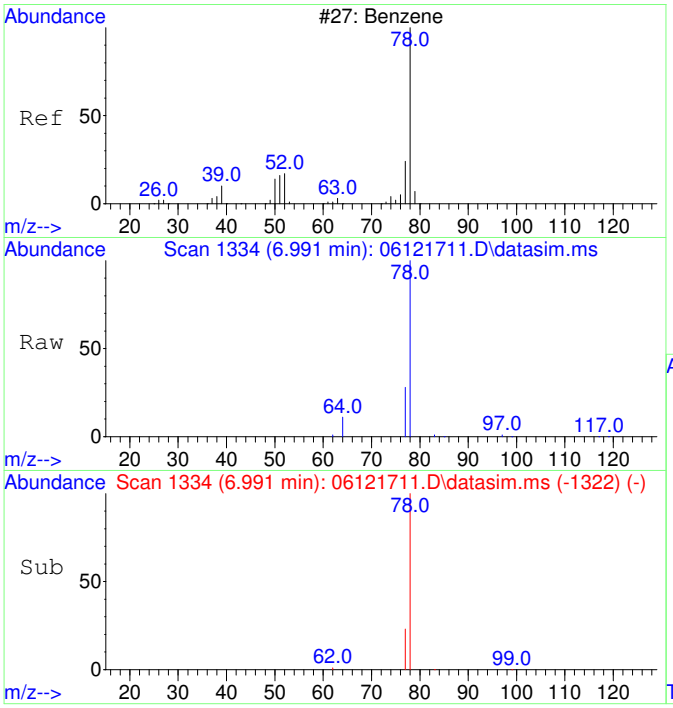


#7
1,1,1-Trichloroethane
Concen: 83.20 ug/L
RT: 6.371 min Scan# 1283
Delta R.T. -0.012 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 97 Resp: 4065

Ion	Ratio	Lower	Upper
97	100		
99	63.5	34.3	94.3
117	12.2	0.0	42.3

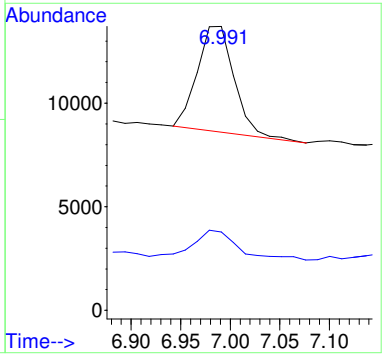


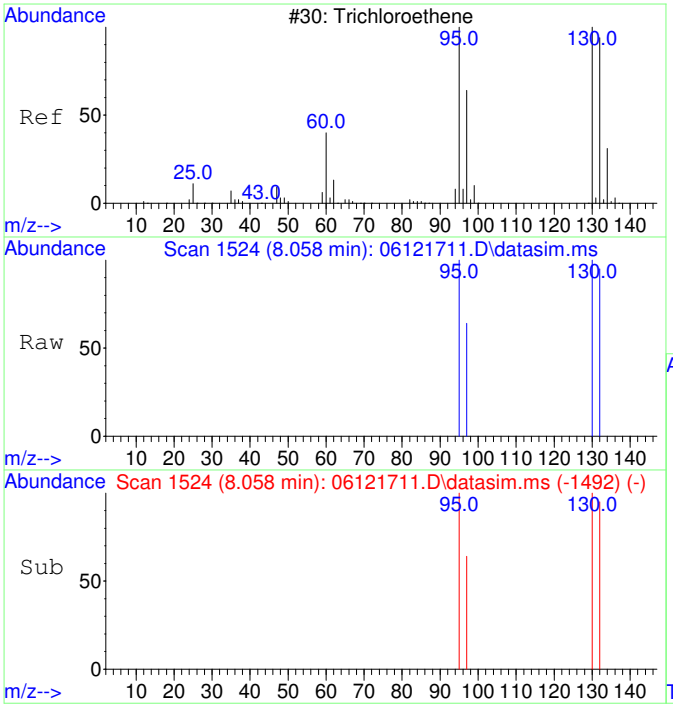


#9
Benzene
Concen: 103.88 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 78 Resp: 12869

Ion	Ratio	Lower	Upper
78	100		
77	26.9	0.0	53.0

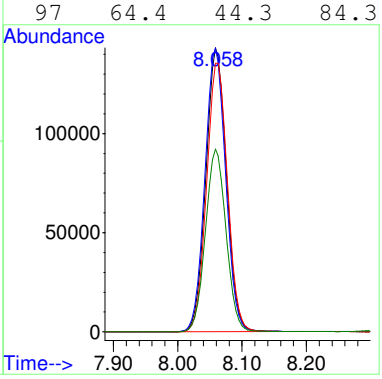


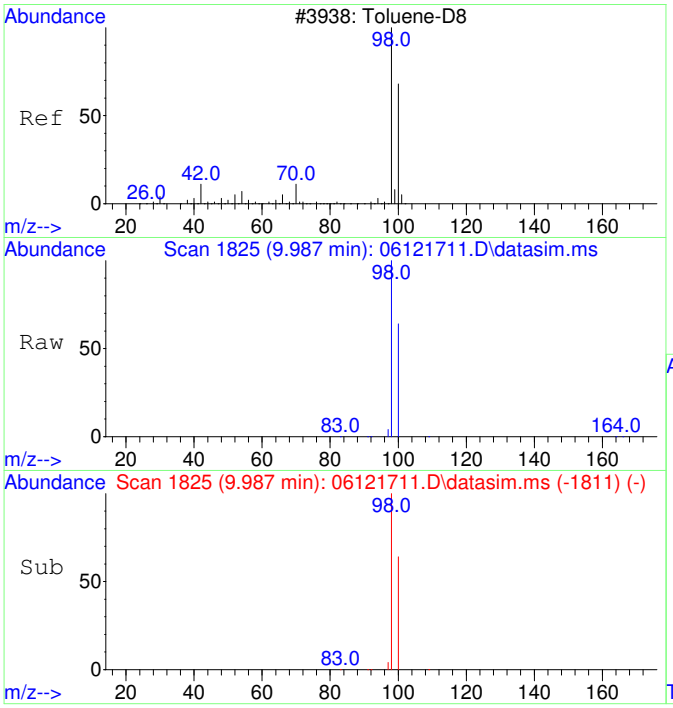


#11
Trichloroethene
Concen: 9970.68 ug/L
RT: 8.058 min Scan# 1524
Delta R.T. -0.005 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion:130 Resp: 317659

Ion	Ratio	Lower	Upper
130	100		
95	100.4	69.8	129.8
132	95.9	76.4	116.4
97	64.4	44.3	84.3

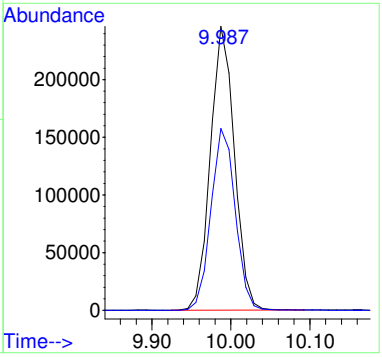


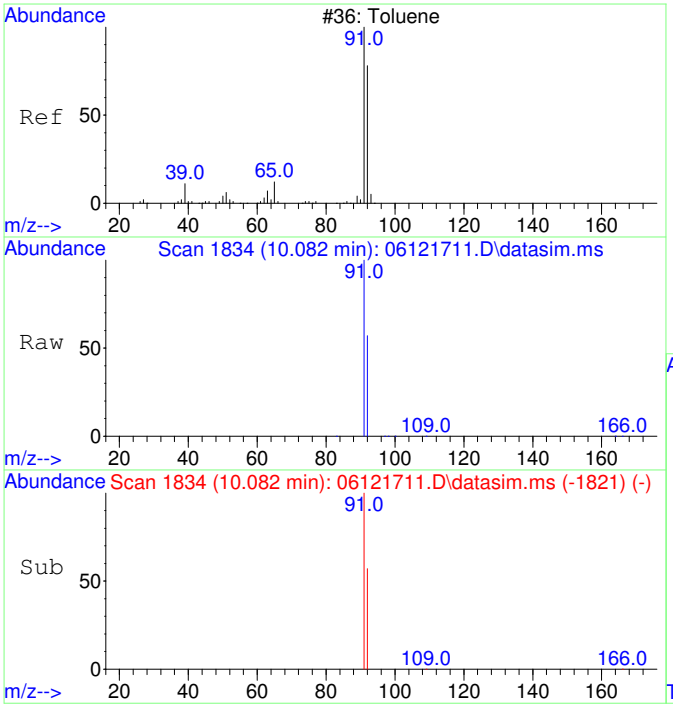


#12
Toluene-d8
Concen: 5081.53 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. 0.000 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 98 Resp: 519445

Ion	Ratio	Lower	Upper
98	100		
100	64.3	34.2	94.2

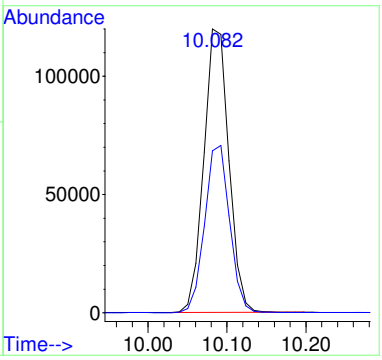


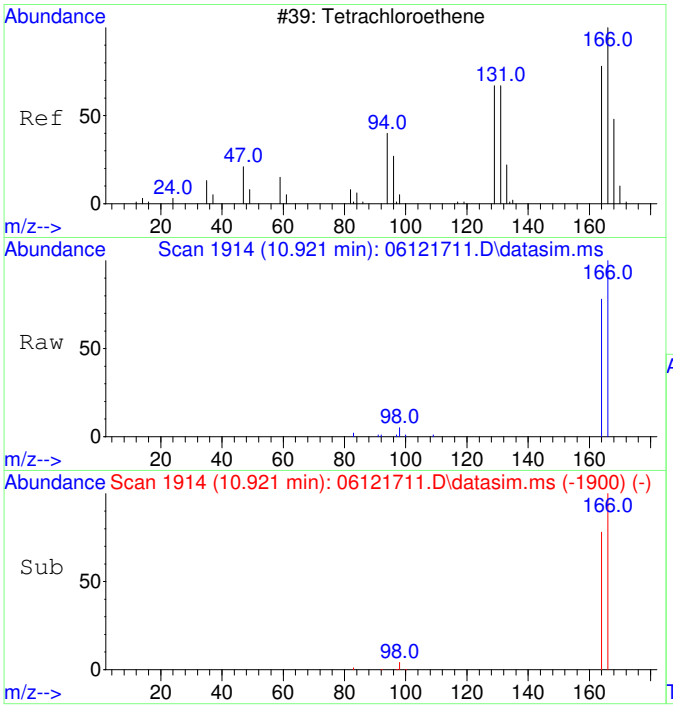


#13
Toluene
Concen: 1952.85 ug/L
RT: 10.082 min Scan# 1834
Delta R.T. -0.010 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 91 Resp: 264355

Ion	Ratio	Lower	Upper
91	100		
92	58.4	28.4	88.4

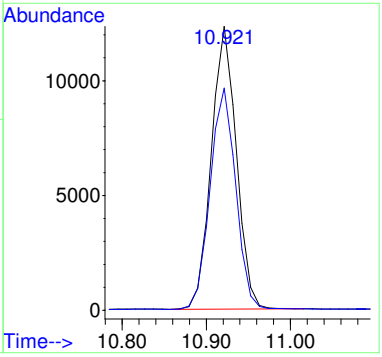


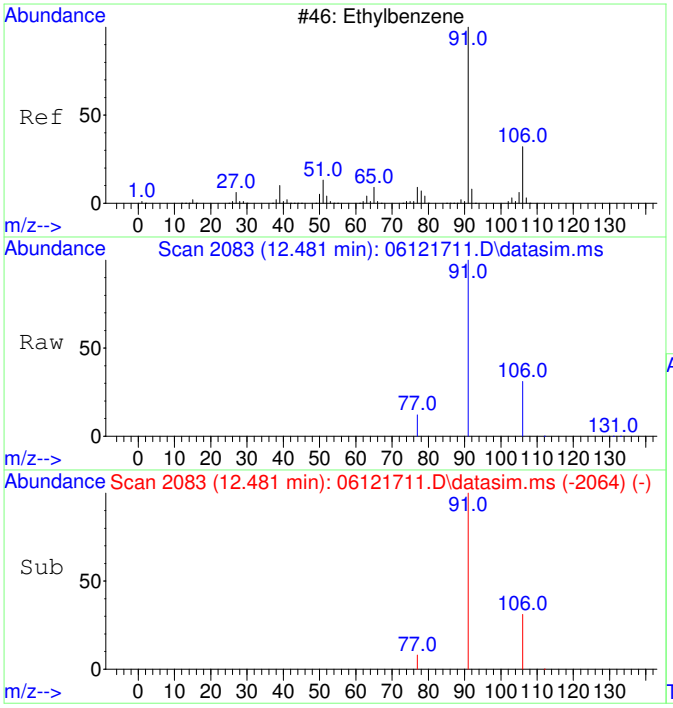


#15
Tetrachloroethene
Concen: 733.48 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion:166 Resp: 25449

Ion	Ratio	Lower	Upper
166	100		
164	79.2	48.1	108.1

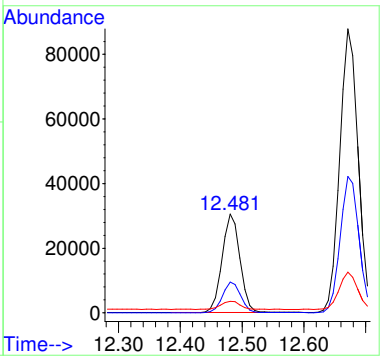


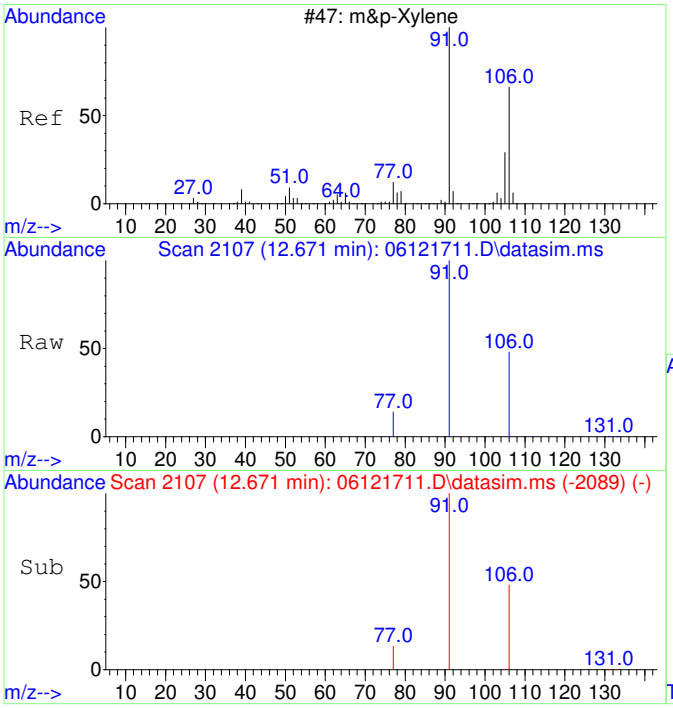


#18
Ethylbenzene
Concen: 416.63 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 91 Resp: 60697

Ion	Ratio	Lower	Upper
91	100		
106	31.3	1.2	61.2
77	8.7	0.0	38.6

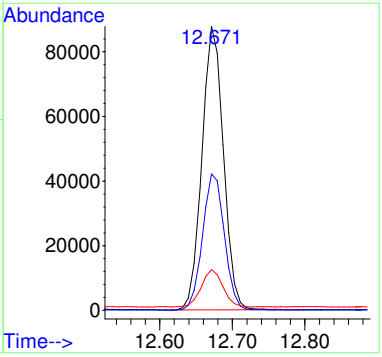


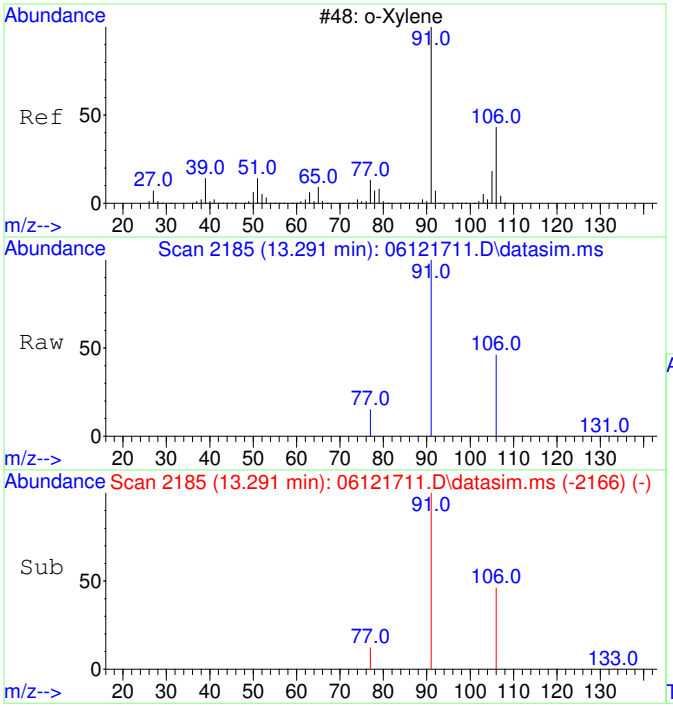


#19
m&p-Xylene
Concen: 1583.41 ug/L
RT: 12.671 min Scan# 2107
Delta R.T. -0.008 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 91 Resp: 180963

Ion	Ratio	Lower	Upper
91	100		
106	48.8	18.4	78.4
77	12.9	0.0	43.1

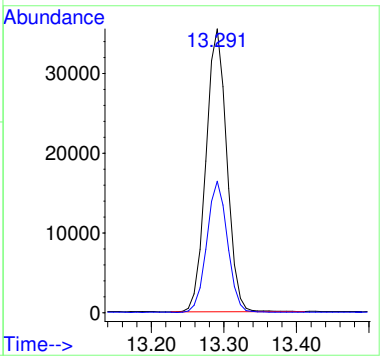


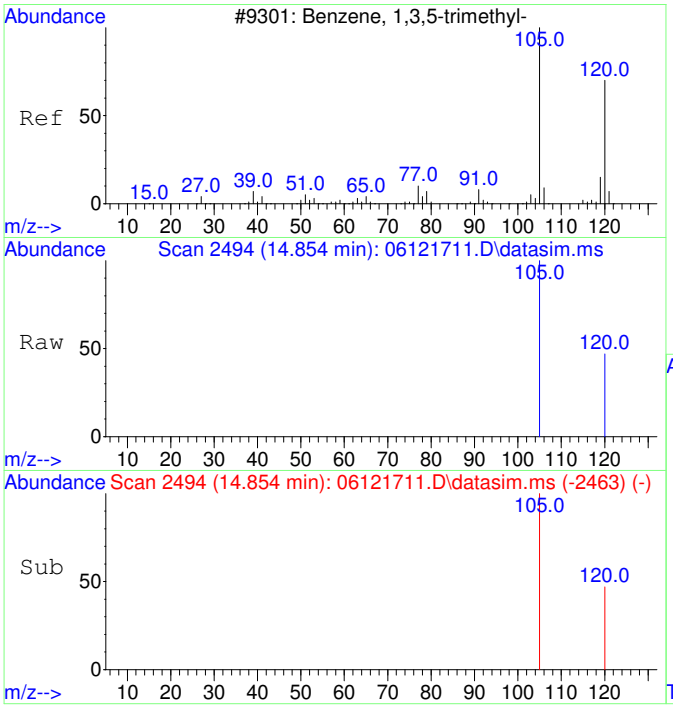


#20
o-Xylene
Concen: 598.53 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 91 Resp: 70744

Ion	Ratio	Lower	Upper
91	100		
106	45.8	16.0	76.0

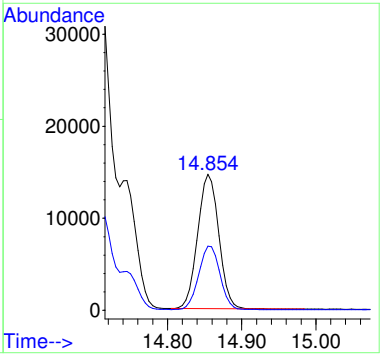


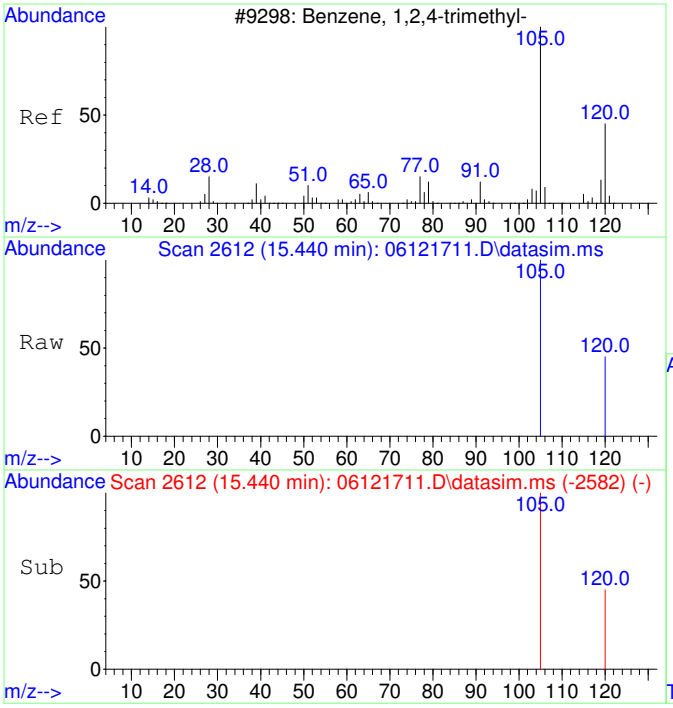


#22
1,3,5-Trimethylbenzene
Concen: 247.42 ug/L
RT: 14.854 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion:105 Resp: 28875

Ion	Ratio	Lower	Upper
105	100		
120	47.3	18.0	78.0

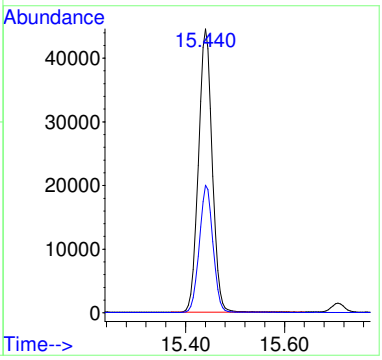


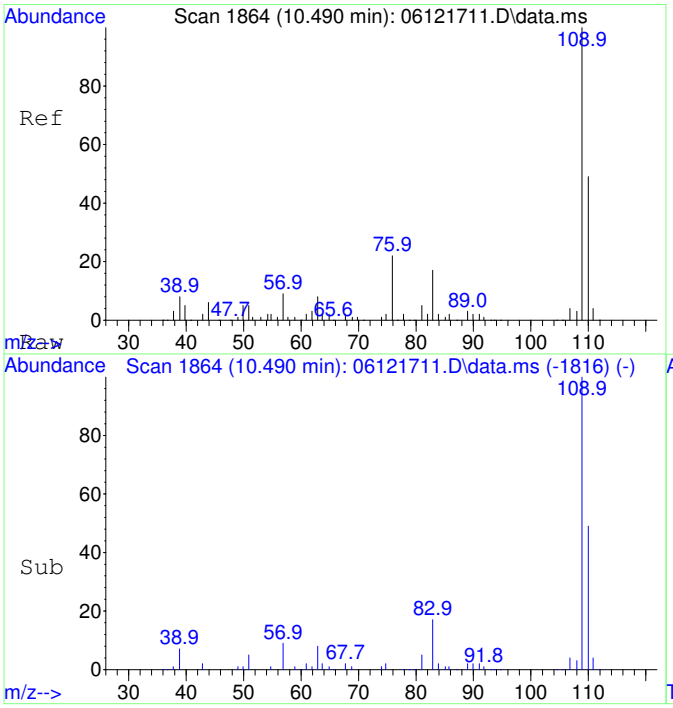


#23
1,2,4-Trimethylbenzene
Concen: 718.01 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion:105 Resp: 85903

Ion	Ratio	Lower	Upper
105	100		
120	44.6	14.4	74.4

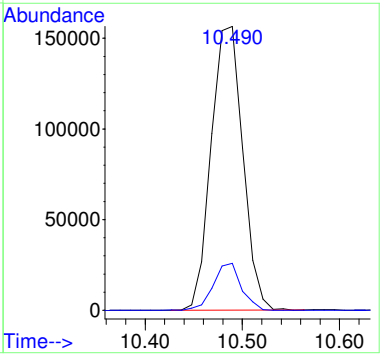


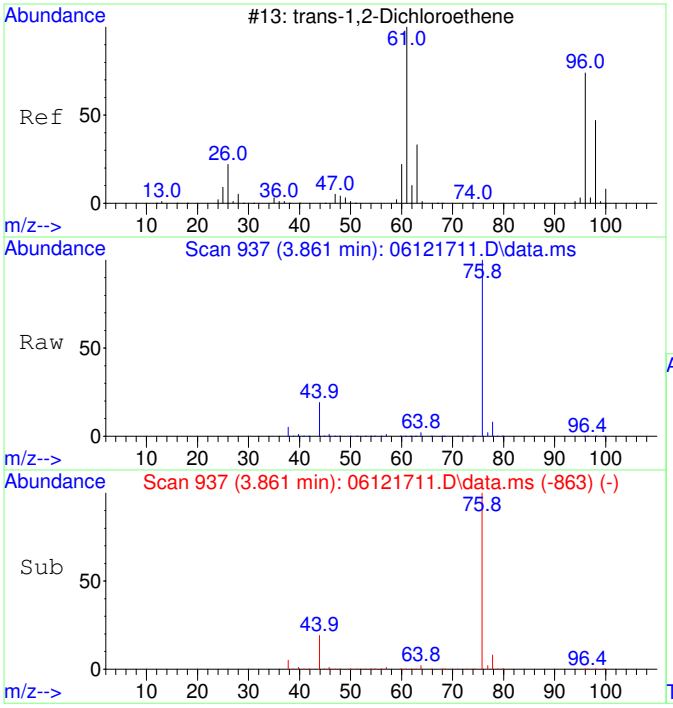


#25
2-Fluorotoluene SCAN
Concen: 4676.50 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. 0.000 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion:109 Resp: 353909

Ion	Ratio	Lower	Upper
109	100		
83	14.7	0.0	46.1

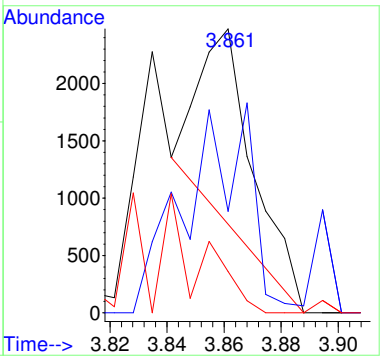


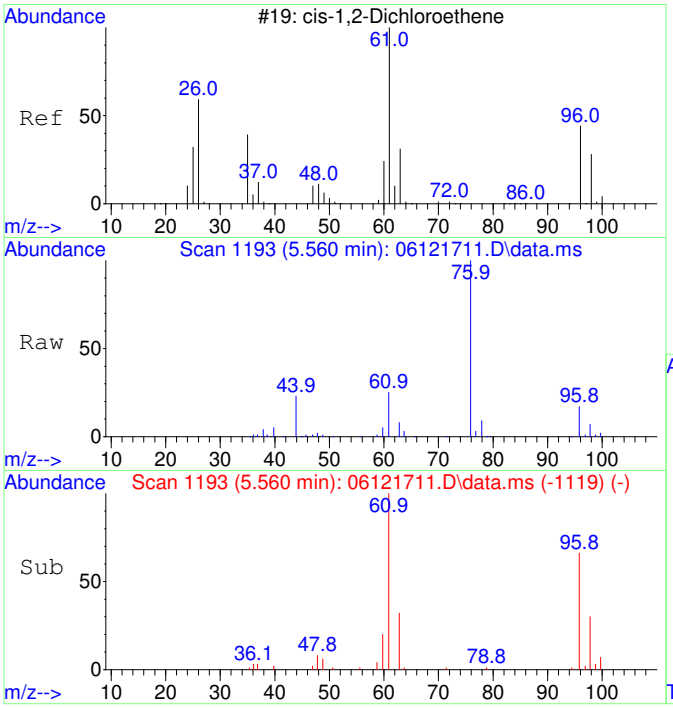


#27
trans-1,2-Dichloroethene SCAN
Concen: 55.15 ug/L
RT: 3.861 min Scan# 937
Delta R.T. -0.007 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 61 Resp: 1874

Ion	Ratio	Lower	Upper
61	100		
96	145.0	26.1	86.1#
98	0.0	4.4	64.4#

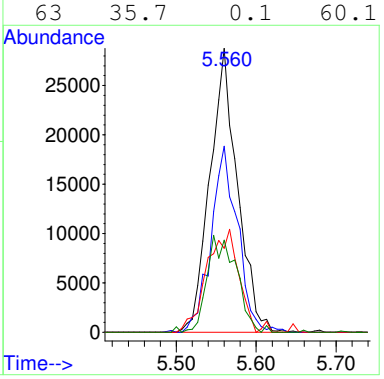


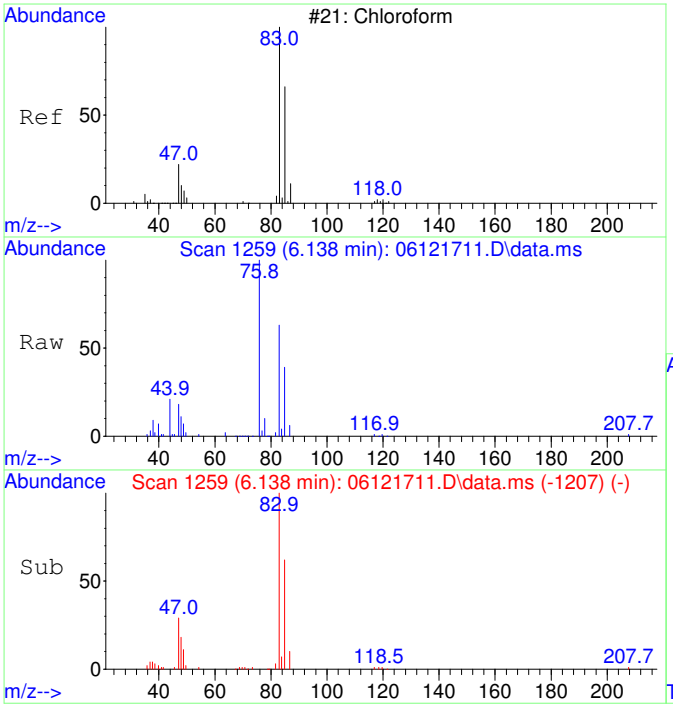


#29
cis-1,2-Dichloroethene SCAN
Concen: 1759.22 ug/L
RT: 5.560 min Scan# 1193
Delta R.T. -0.007 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 61 Resp: 68962

Ion	Ratio	Lower	Upper
61	100		
96	63.1	17.5	77.5
98	40.1	1.9	61.9
63	35.7	0.1	60.1

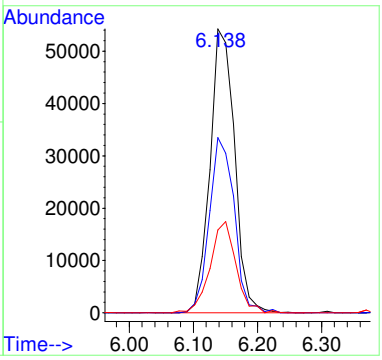


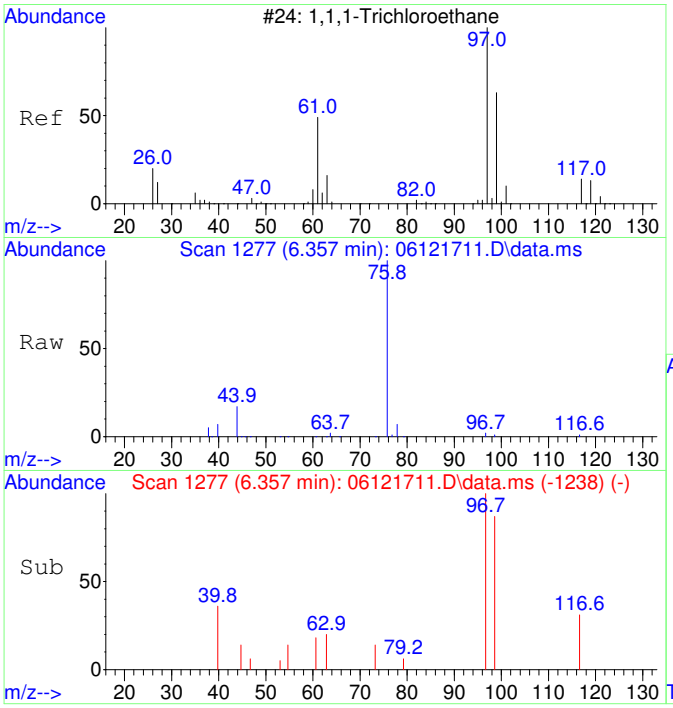


#30
Chloroform SCAN
Concen: 4091.71 ug/L
RT: 6.138 min Scan# 1259
Delta R.T. -0.012 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 83 Resp: 144636

Ion	Ratio	Lower	Upper
83	100		
85	62.6	31.2	91.2
47	33.8	3.2	63.2

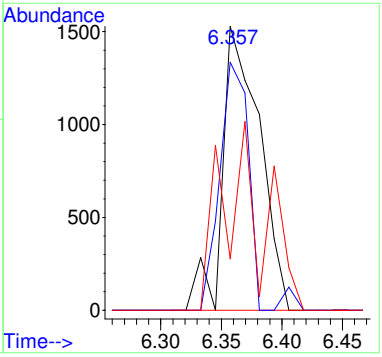


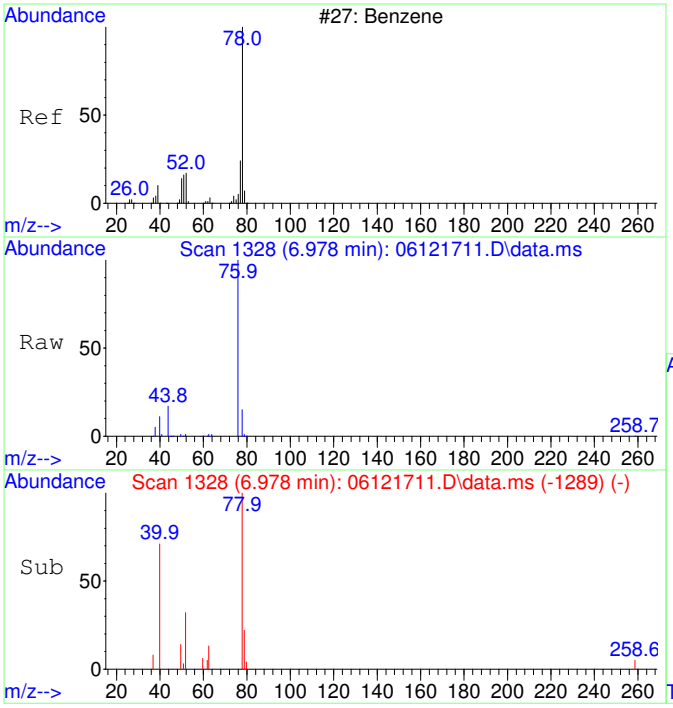


#31
1,1,1-Trichloroethane SCAN
Concen: 112.65 ug/L
RT: 6.357 min Scan# 1277
Delta R.T. -0.024 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 97 Resp: 3277

Ion	Ratio	Lower	Upper
97	100		
99	66.5	38.7	98.7
61	72.6	27.8	87.8

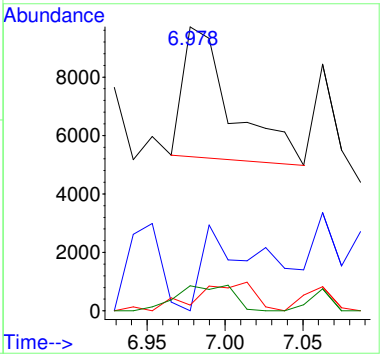


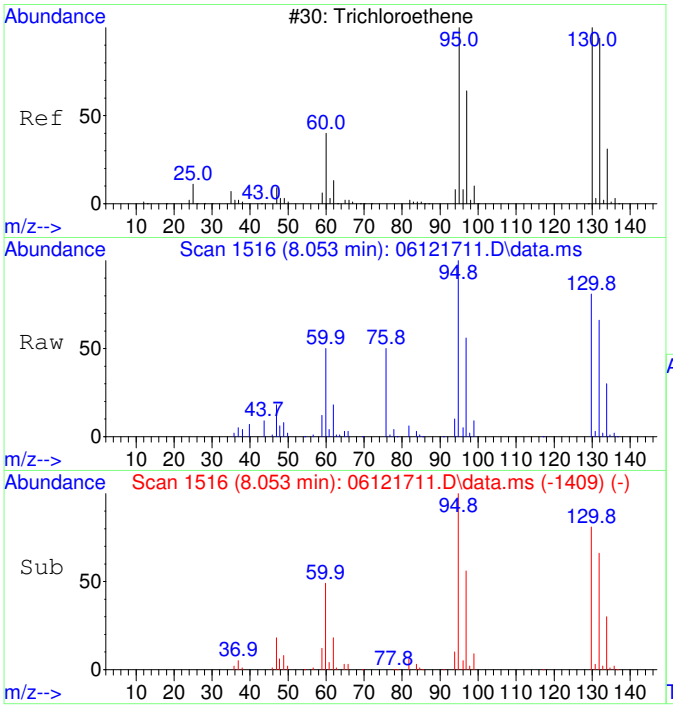


#33
Benzene SCAN
Concen: 120.23 ug/L
RT: 6.978 min Scan# 1328
Delta R.T. -0.024 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 78 Resp: 9632

Ion	Ratio	Lower	Upper
78	100		
77	54.8	0.0	55.2
51	0.0	0.0	52.4
52	0.0	0.0	53.3

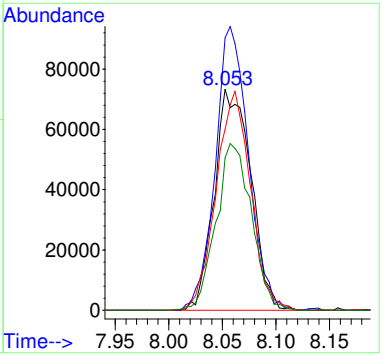


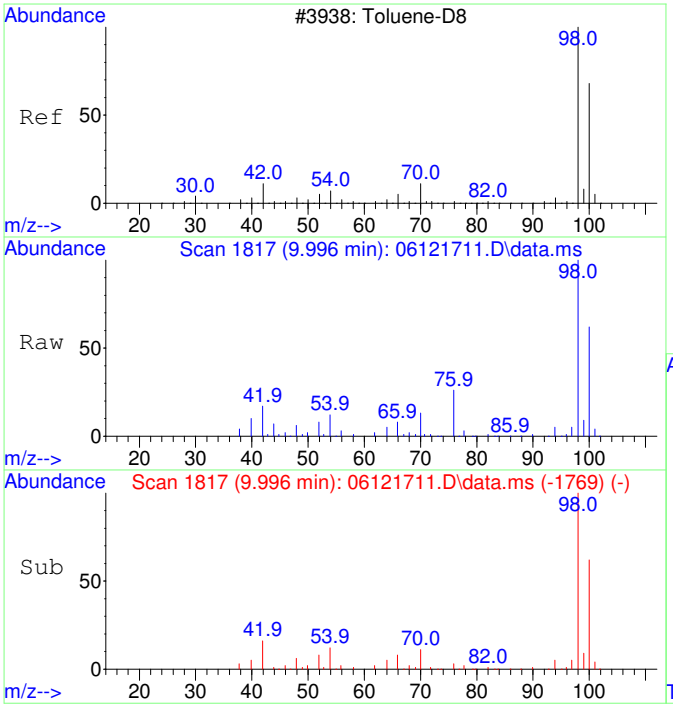


#35
Trichloroethene SCAN
Concen: 9377.52 ug/L
RT: 8.053 min Scan# 1516
Delta R.T. -0.009 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion:130 Resp: 173980

Ion	Ratio	Lower	Upper
130	100		
95	116.5	76.1	136.1
132	93.4	65.6	125.6
97	73.1	41.8	101.8

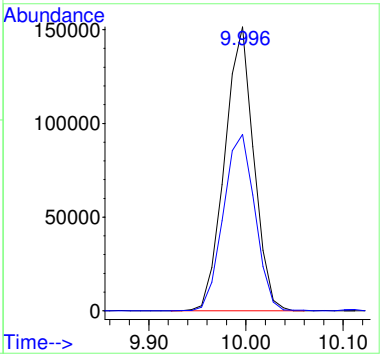


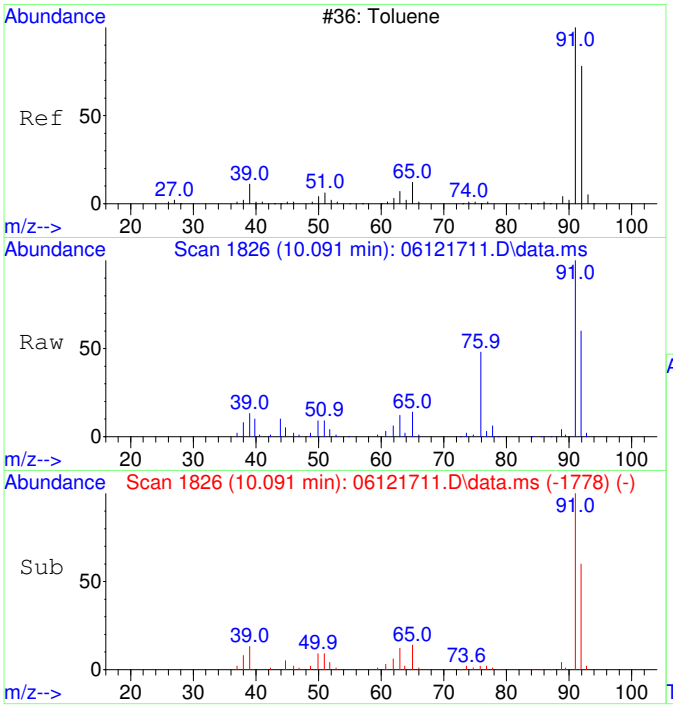


#36
Toluene-d8 SCAN
Concen: 5030.85 ug/L
RT: 9.996 min Scan# 1817
Delta R.T. 0.000 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 98 Resp: 314217

Ion	Ratio	Lower	Upper
98	100		
100	67.5	36.2	96.2

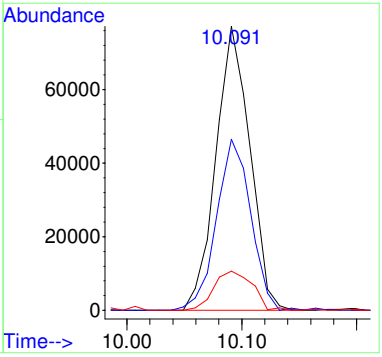


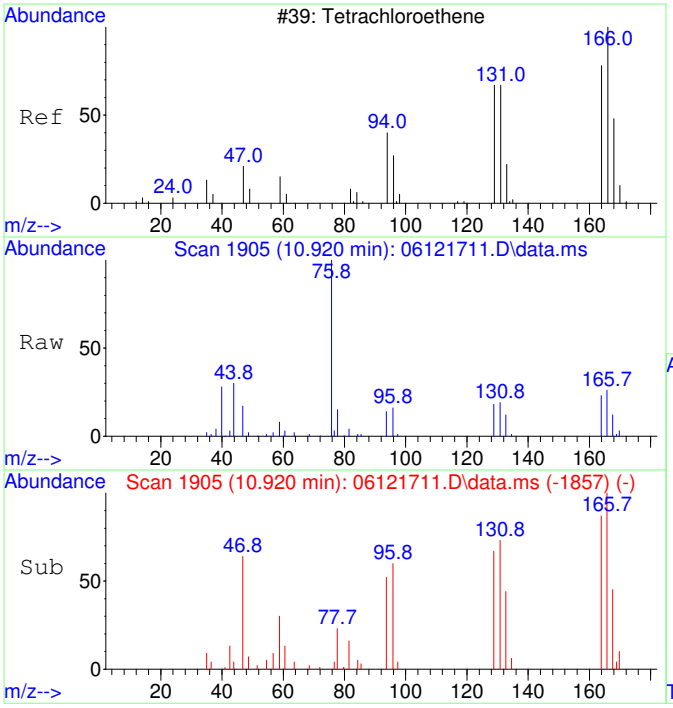


#37
Toluene SCAN
Concen: 1910.03 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 91 Resp: 159113

Ion	Ratio	Lower	Upper
91	100		
92	61.0	29.2	89.2
65	15.5	0.0	44.3

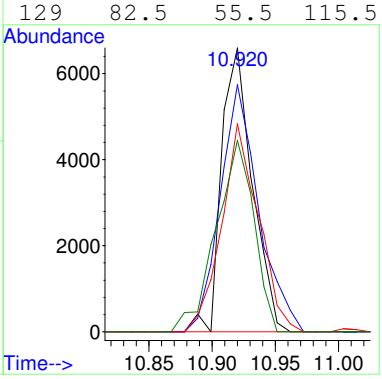


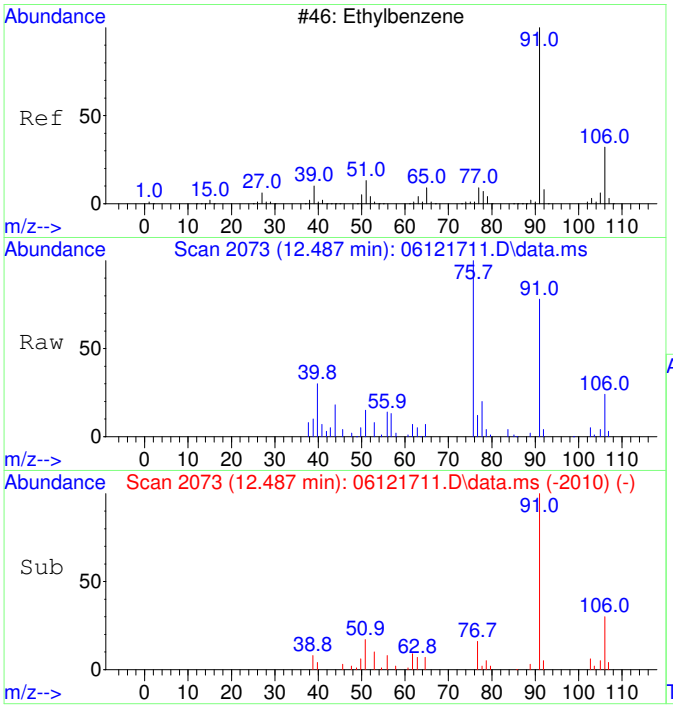


#39
Tetrachloroethene SCAN
Concen: 657.16 ug/L
RT: 10.920 min Scan# 1905
Delta R.T. 0.000 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion:166 Resp: 11223

Ion	Ratio	Lower	Upper
166	100		
164	108.0	45.7	105.7#
131	87.5	44.8	104.8
129	82.5	55.5	115.5

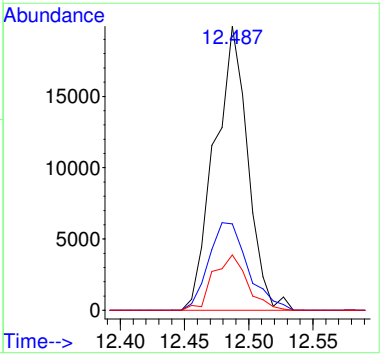


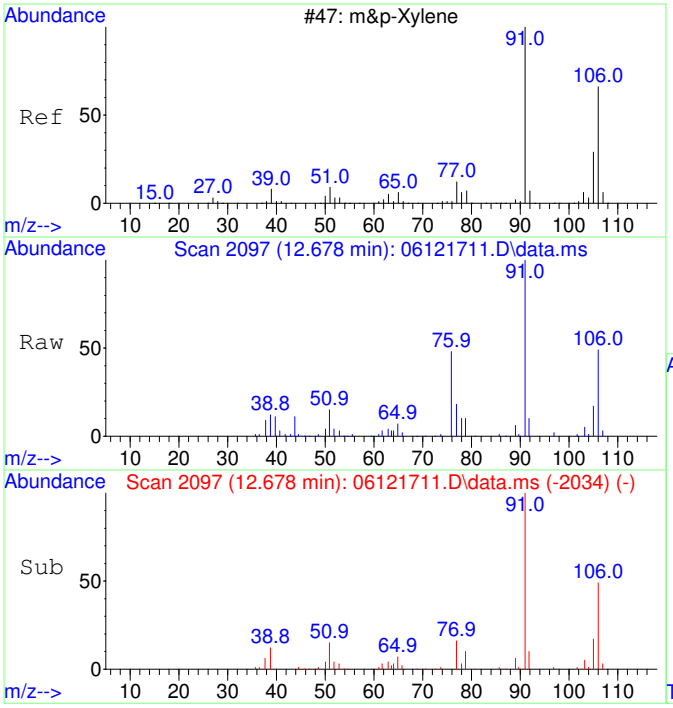


#42
Ethylbenzene SCAN
Concen: 383.41 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. 0.000 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 91 Resp: 35763

Ion	Ratio	Lower	Upper
91	100		
106	36.5	0.0	59.8
51	20.0	0.0	45.5

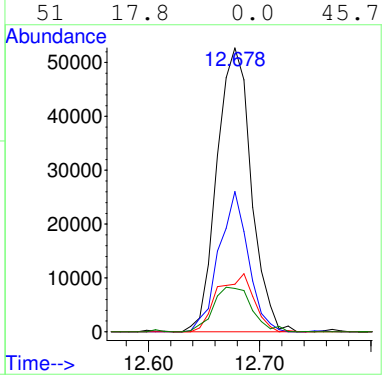


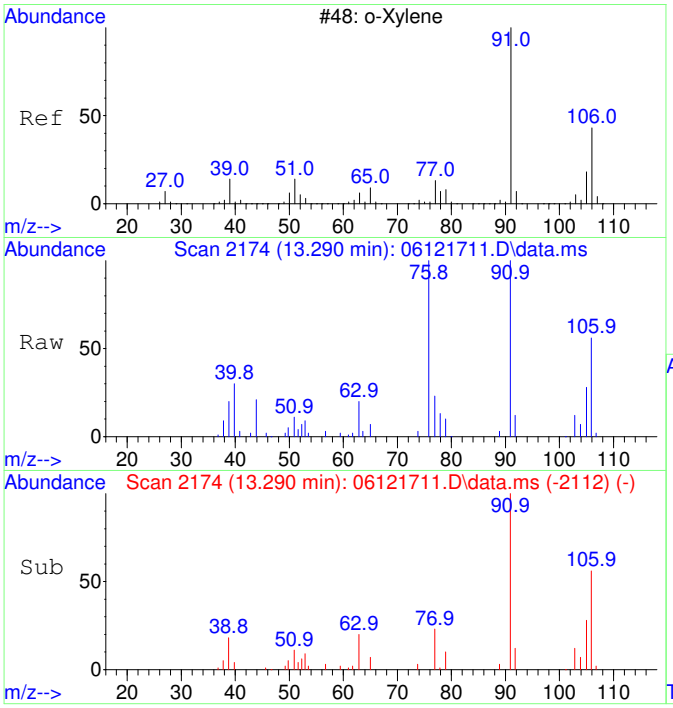


#43
m&p-Xylene SCAN
Concen: 774.17 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 91 Resp: 112746

Ion	Ratio	Lower	Upper
91	100		
106	42.6	18.5	78.5
105	21.7	0.0	51.3
51	17.8	0.0	45.7

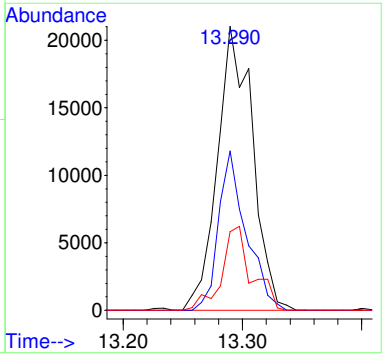


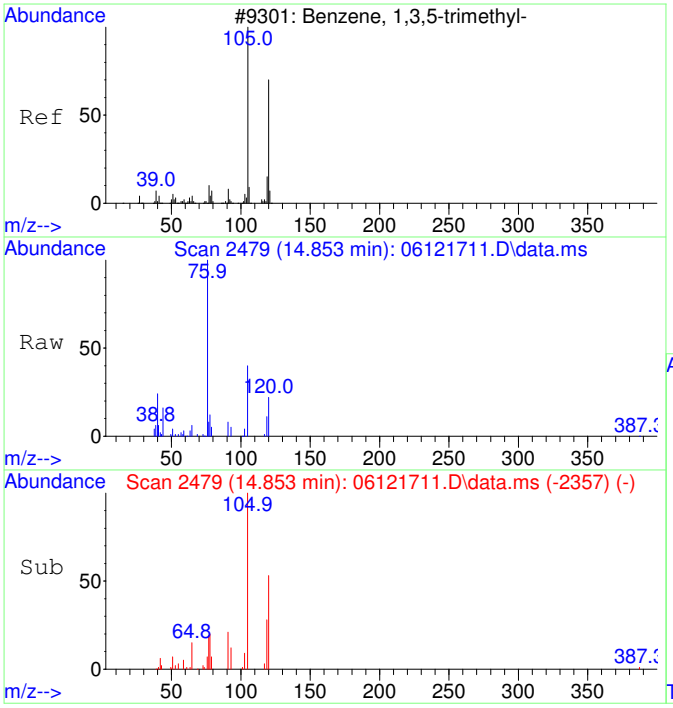


#44
o-Xylene SCAN
Concen: 574.10 ug/L
RT: 13.290 min Scan# 2174
Delta R.T. -0.008 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion: 91 Resp: 43054

Ion	Ratio	Lower	Upper
91	100		
106	44.3	15.5	75.5
105	25.3	0.0	54.1

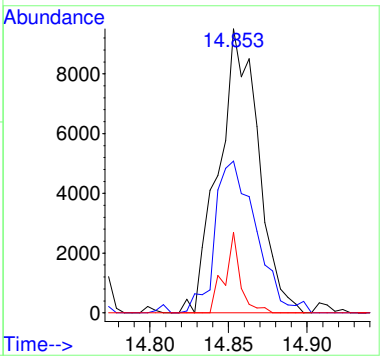


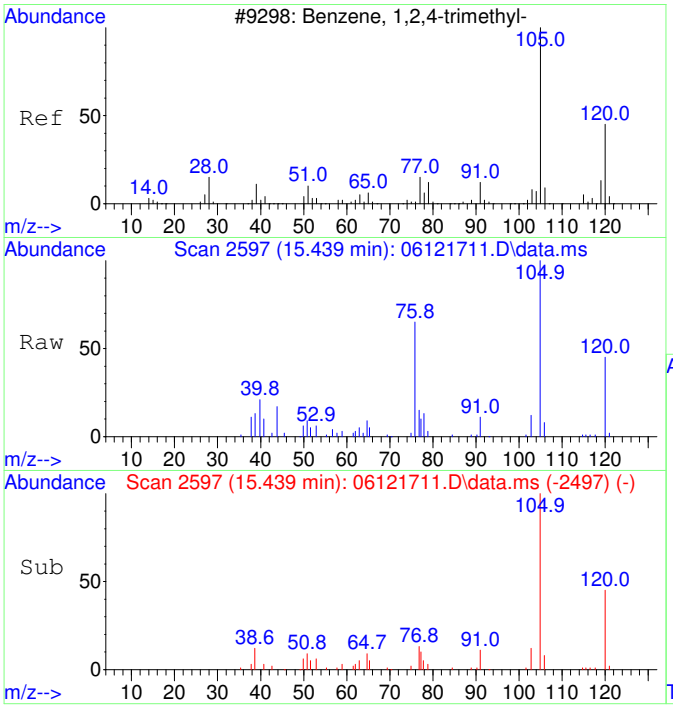


#46
1,3,5-Trimethylbenzene SCAN
Concen: 233.62 ug/L
RT: 14.853 min Scan# 2479
Delta R.T. -0.004 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion:105 Resp: 16619

Ion	Ratio	Lower	Upper
105	100		
120	55.7	17.3	77.3
119	11.3	0.0	42.7

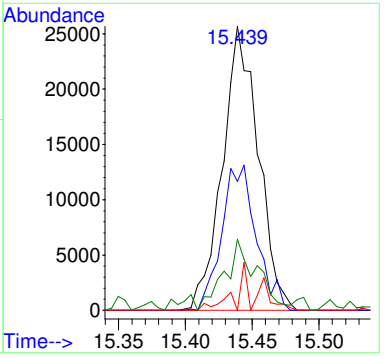




#47
1,2,4-Trimethylbenzene SCAN
Concen: 647.03 ug/L
RT: 15.439 min Scan# 2597
Delta R.T. -0.004 min
Lab File: 06121711.D
Acq: 12 Jun 2017 15:43

Tgt Ion:105 Resp: 47965

Ion	Ratio	Lower	Upper
105	100		
120	49.3	12.9	72.9
119	2.3	0.0	40.5
77	20.6	0.0	43.3



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 17158A
Client: California Site Cleanup Section 3
Project: MEW OU3 May 2017 Investigation
Instrument ID: AG5975CV
Calibration: 1706007
Sequence: S17F037

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S17F037-CRL1	1,1-Dichloroethene	50.0	53.5	107	ug/L	60 - 140
	trans-1,2-Dichloroethene	50.0	54.2	108	ug/L	60 - 140
	cis-1,2-Dichloroethene	50.0	52.2	104	ug/L	60 - 140
	Chloroform	50.0	55.9	112	ug/L	60 - 140
	Benzene	**50.0**	**80.2**	**160**	**ug/L**	**60 - 140**
	Trichloroethene	50.0	51.3	103	ug/L	60 - 140
	Tetrachloroethene	50.0	51.3	103	ug/L	60 - 140
	Toluene-d8	50.0	52.8	106	ug/L	0 - 200

QLS REPORT

Instrument Name: AG5975C
Sample Name: S17F037-CRL1
Misc Info: 1717062 0.05 mg/L
Date Acquired: 6/9/17 11:38
QLast Update: Tue Jun 06 15:10:51 2017
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.480	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	2.711	50.0	53.52	107%	60	140	pass
3)	trans-1,2-Dichloroethene	3.869	50.0	54.16	108%	60	140	pass
4)	1,1-Dichloroethane	4.553	50.0	53.24	106%	60	140	pass
5)	cis-1,2-Dichloroethene	5.568	50.0	52.20	104%	60	140	pass
6)	Chloroform	6.152	50.0	55.91	112%	60	140	pass
7)	1,1,1-Trichloroethane	6.383	50.0	50.71	101%	60	140	pass
8)	Carbon tetrachloride	6.638	50.0	50.12	100%	60	140	pass
10)	1,2-Dichloroethane	7.064	50.0	51.50	103%	60	140	pass
11)	Trichloroethene	8.063	50.0	51.26	103%	60	140	pass
12)	Toluene-d8	9.987	50.0	52.82	106%	60	140	pass
13)	Toluene	10.092	50.0	59.81	120%	60	140	pass
14)	1,1,2-Trichloroethane	10.774	50.0	51.48	103%	60	140	pass
15)	Tetrachloroethene	10.921	50.0	51.33	103%	60	140	pass
16)	Chlorobenzene	12.274	50.0	52.05	104%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.433	50.0	48.84	98%	60	140	pass
18)	Ethylbenzene	12.480	50.0	51.25	103%	60	140	pass
19)	m&p-Xylene	12.679	100.0	100.95	101%	60	140	pass
20)	o-Xylene	13.291	50.0	51.07	102%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.429	50.0	50.07	100%	60	140	pass
22)	1,3,5-Trimethylbenzene	14.853	50.0	48.76	98%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.439	50.0	47.83	96%	60	140	pass
24)	Naphthalene	17.661	50.0	50.71	101%	60	140	pass

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091704.D
Acq On : 9 Jun 2017 11:38
InstName : AG5975C
Operator : RH
Sample : S17F037-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 09 11:56:56 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

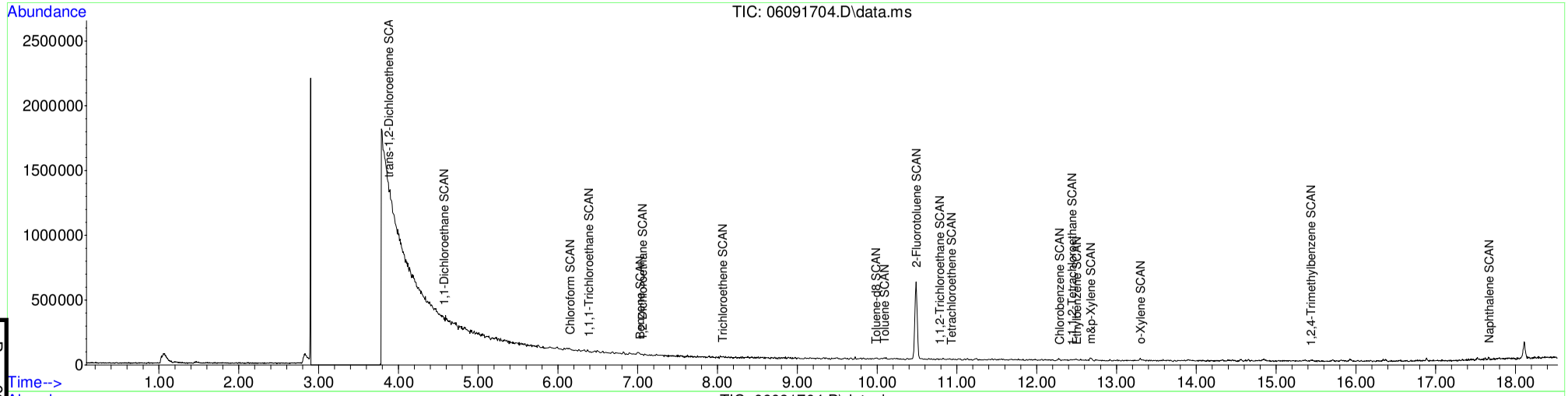
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.491	109	821821	5000.00	ug/L	0.01
System Monitoring Compounds						
12) Toluene-d8	9.998	98	7109	52.82	ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.06%#		
Target Compounds						Qvalue
2] 1,1-Dichloroethene	2.711	61	3872	59.74	ug/L	98
3] trans-1,2-Dichloroethene	3.883	61	3805	54.16	ug/L	93
4] 1,1-Dichloroethane	4.559	63	4031	53.24	ug/L	99
5] cis-1,2-Dichloroethene	5.568	61	3778	52.20	ug/L	99
6] Chloroform	6.152	83	3916	55.91	ug/L	99
7] 1,1,1-Trichloroethane	6.383	97	3262	50.71	ug/L	99
8] Carbon tetrachloride	6.650	117	2781	50.12	ug/L	96
9] Benzene	6.991	78	13086	80.23	ug/L	95
10] 1,2-Dichloroethane	7.064	62	3112	51.50	ug/L	100
11] Trichloroethene	8.068	130	2150	51.26	ug/L	98
13] Toluene	10.092	91	10660	59.81	ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	1962	51.48	ug/L	99
15] Tetrachloroethene	10.921	166	2345	51.33	ug/L	98
16] Chlorobenzene	12.282	112	5893	52.05	ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.441	131	1815	48.84	ug/L	95
18] Ethylbenzene	12.481	91	9831	51.25	ug/L	97
19] m&p-Xylene	12.679	91	15190	100.95	ug/L	98
20] o-Xylene	13.291	91	7948	51.07	ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	3314	50.07	ug/L	99
22] 1,3,5-Trimethylbenzene	14.854	105	7493	48.76	ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	7534	47.83	ug/L	100
24] Naphthalene	17.662	128	11830	50.71	ug/L	99
25) 2-Fluorotoluene SCAN	10.490	109	466899	4685.85	ug/L	96
27) trans-1,2-Dichloroethe...	3.881	61	1377	30.78	ug/L #	61
28) 1,1-Dichloroethane SCAN	4.571	63	1513	29.66	ug/L	72
30) Chloroform SCAN	6.150	83	1768	37.99	ug/L #	27
31) 1,1,1-Trichloroethane ...	6.382	97	1411	36.84	ug/L #	64
33) Benzene SCAN	7.026	78	23827	225.89	ug/L	81
34) 1,2-Dichloroethane SCAN	7.063	62	1192	26.19	ug/L #	24
35) Trichloroethene SCAN	8.066	130	1466	60.01	ug/L #	56
36) Toluene-d8 SCAN	9.986	98	5727	69.64	ug/L #	17
37) Toluene SCAN	10.091	91	7382	67.30	ug/L	89
38) 1,1,2-Trichloroethane ...	10.784	97	746	30.20	ug/L #	25
39) Tetrachloroethene SCAN	10.930	166	1007	44.78	ug/L #	72
40) Chlorobenzene SCAN	12.281	112	3018	44.80	ug/L #	8
41) 1,1,1,2-Tetrachloroeth...	12.448	131	589	28.09	ug/L #	51
42) Ethylbenzene SCAN	12.495	91	7217	58.77	ug/L	86
43) m&p-Xylene SCAN	12.678	91	11864	61.87	ug/L #	55
44) o-Xylene SCAN	13.297	91	5505	55.75	ug/L	88
47) 1,2,4-Trimethylbenzene...	15.434	105	5084	52.09	ug/L #	51
48) Naphthalene SCAN	17.669	128	6328	47.01	ug/L	91

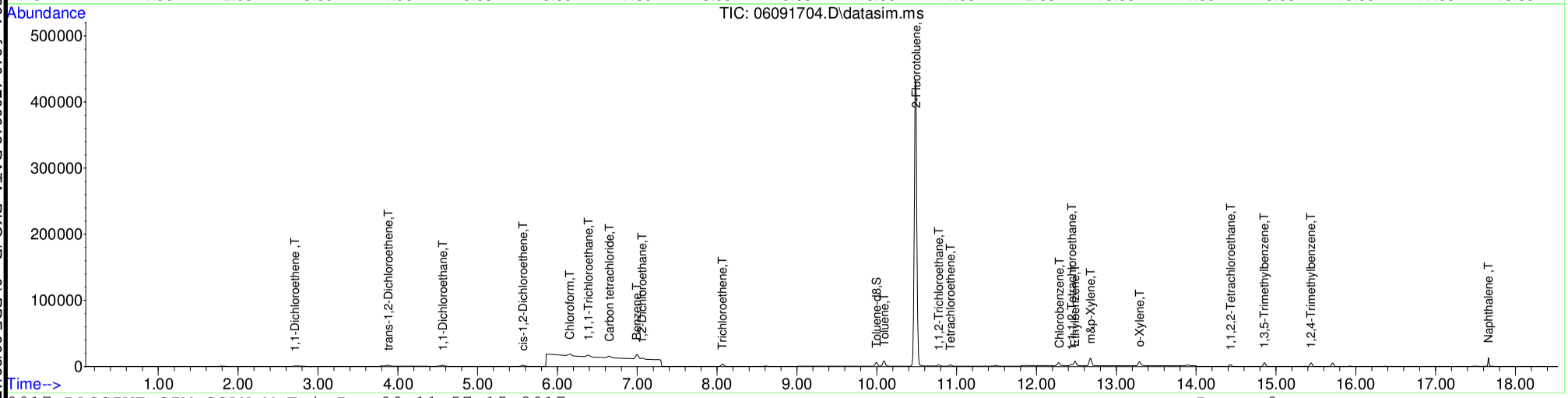
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091704.D
Acq On : 9 Jun 2017 11:38
InstName : AG5975C
Operator : RH
Sample : S17F037-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 09 11:56:56 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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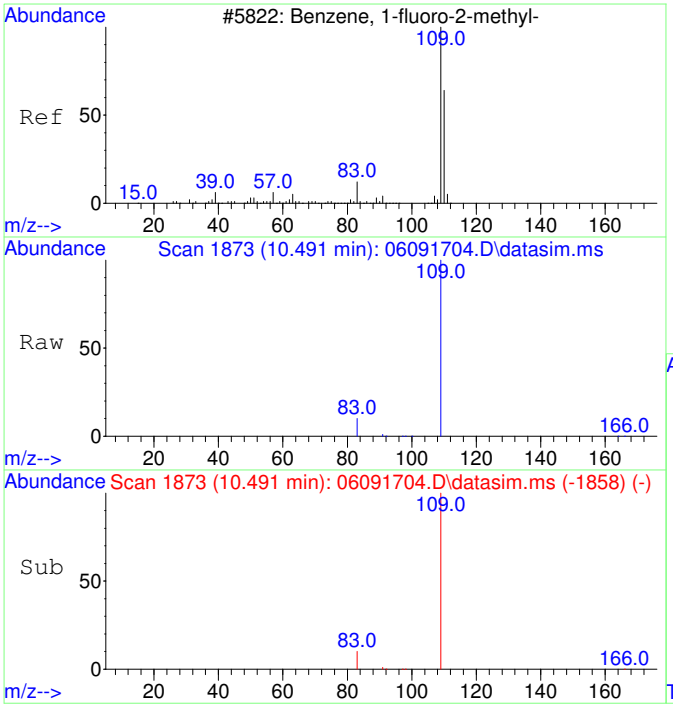
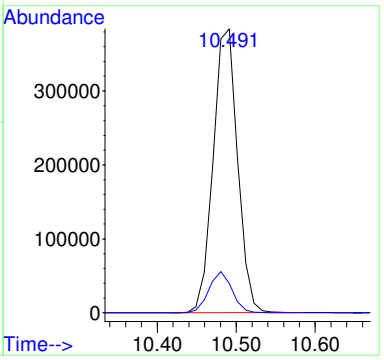
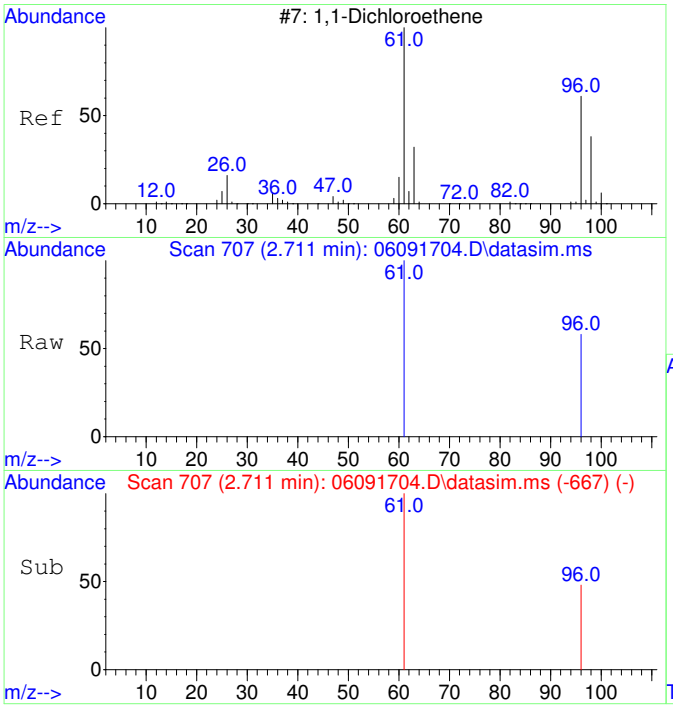


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.491 min Scan# 1873
Delta R.T. 0.011 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:109 Resp: 821821

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	44.4

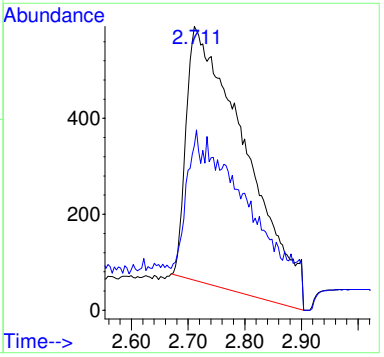




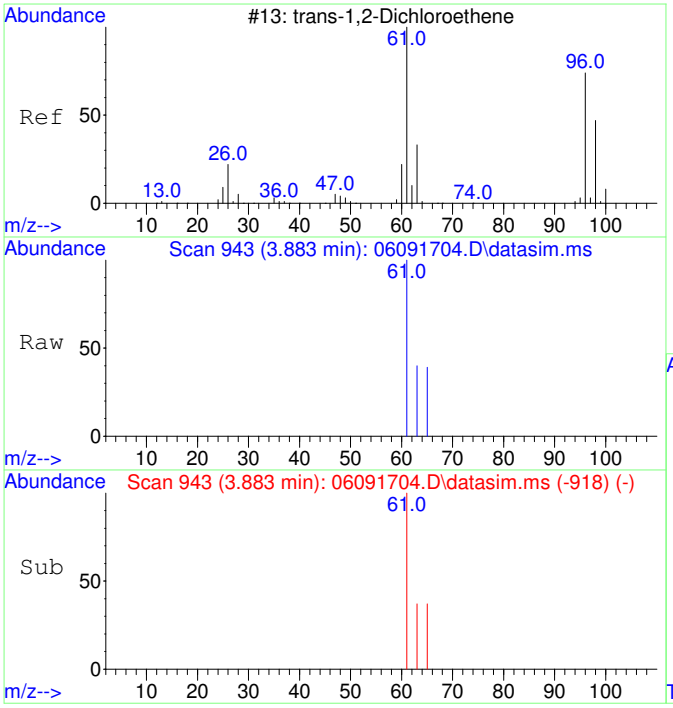
#2
1,1-Dichloroethene
Concen: 59.74 ug/L
RT: 2.711 min Scan# 707
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 61 Resp: 3872

Ion	Ratio	Lower	Upper
61	100		
96	50.4	21.8	81.8



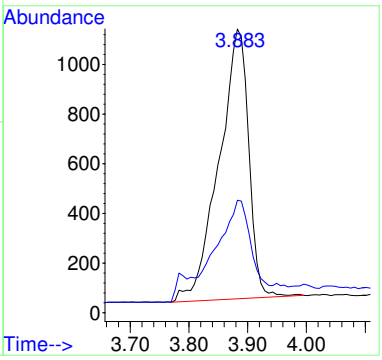
Before MI:
IMPROPER
BASELINE

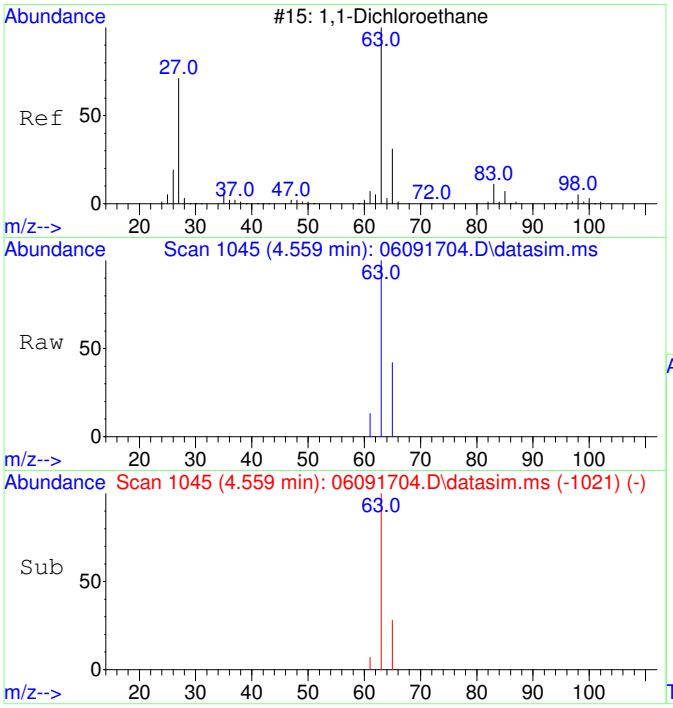


#3
trans-1,2-Dichloroethene
Concen: 54.16 ug/L
RT: 3.883 min Scan# 943
Delta R.T. 0.013 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 61 Resp: 3805

Ion	Ratio	Lower	Upper
61	100		
63	27.3	1.0	61.0

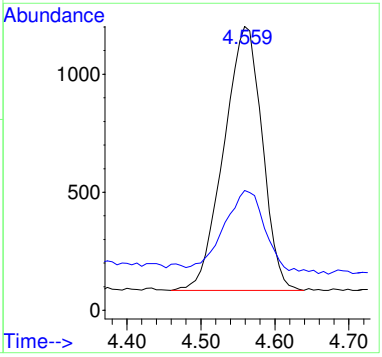


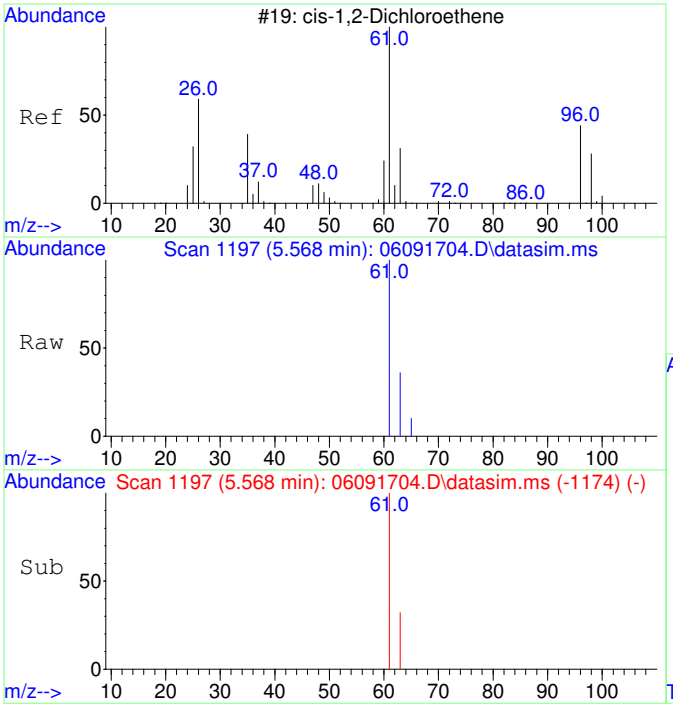


#4
1,1-Dichloroethane
Concen: 53.24 ug/L
RT: 4.559 min Scan# 1045
Delta R.T. 0.007 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 63 Resp: 4031

Ion	Ratio	Lower	Upper
63	100		
65	30.9	0.4	60.4

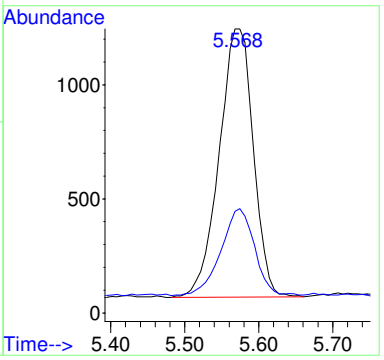


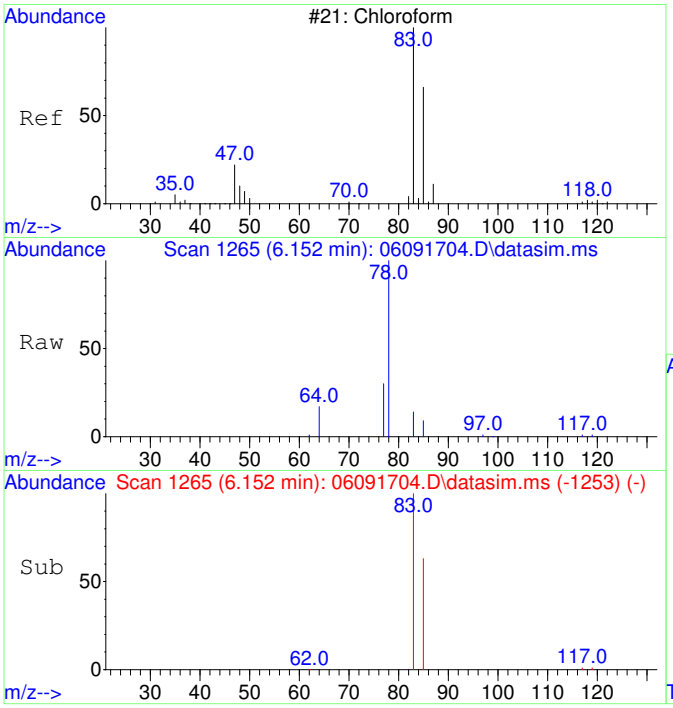


#5
cis-1,2-Dichloroethene
Concen: 52.20 ug/L
RT: 5.568 min Scan# 1197
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 61 Resp: 3778

Ion	Ratio	Lower	Upper
61	100		
63	31.6	0.9	60.9

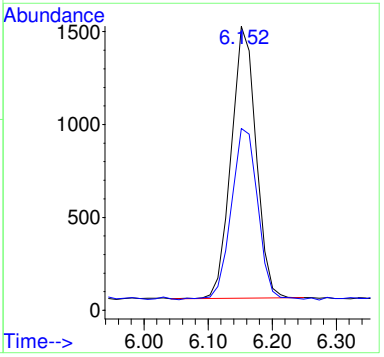


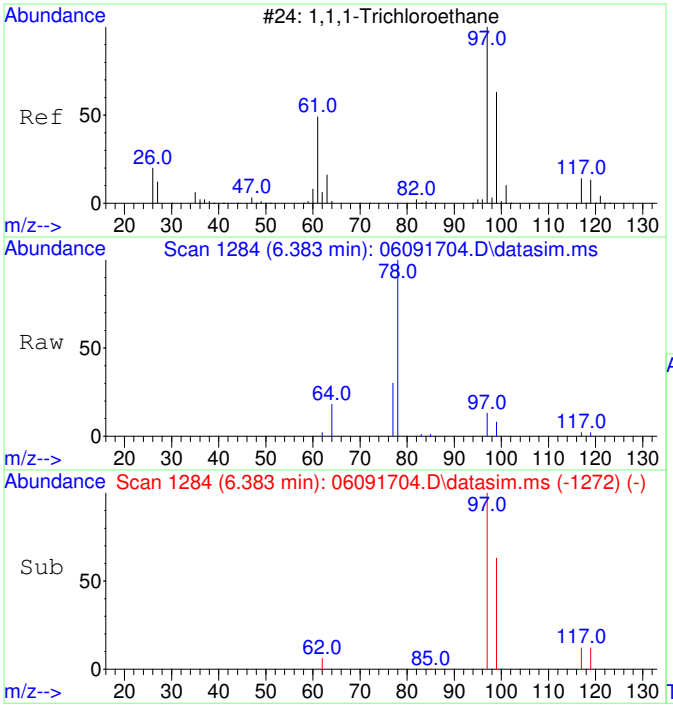


#6
Chloroform
Concen: 55.91 ug/L
RT: 6.152 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 83 Resp: 3916

Ion	Ratio	Lower	Upper
83	100		
85	64.8	33.7	93.7

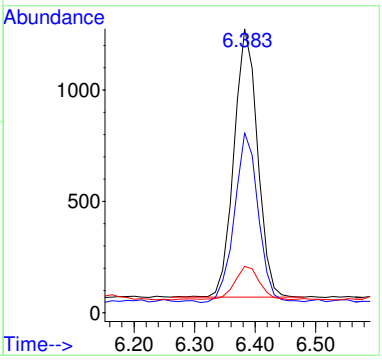


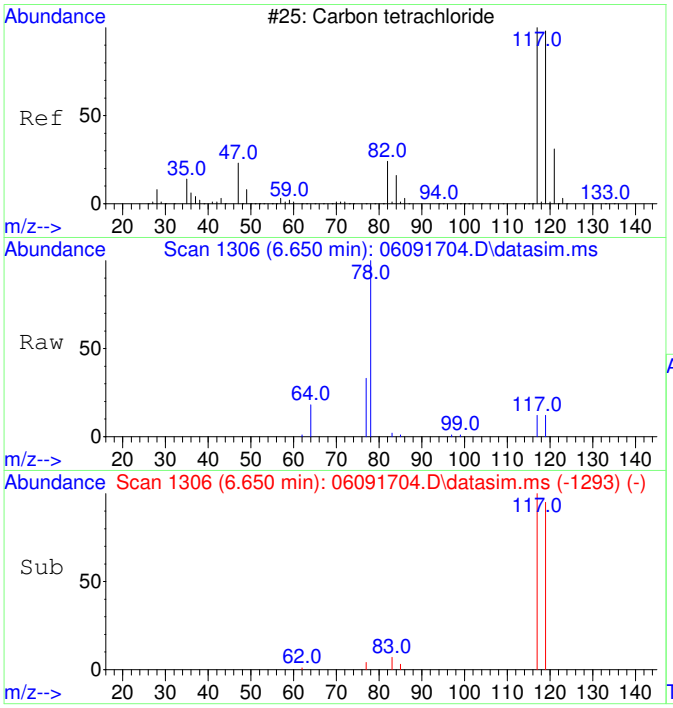


#7
1,1,1-Trichloroethane
Concen: 50.71 ug/L
RT: 6.383 min Scan# 1284
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 3262

Ion	Ratio	Lower	Upper
97	100		
99	63.4	34.3	94.3
117	12.4	0.0	42.3

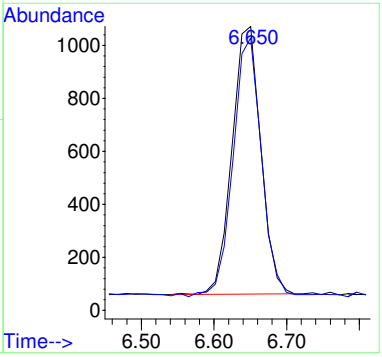


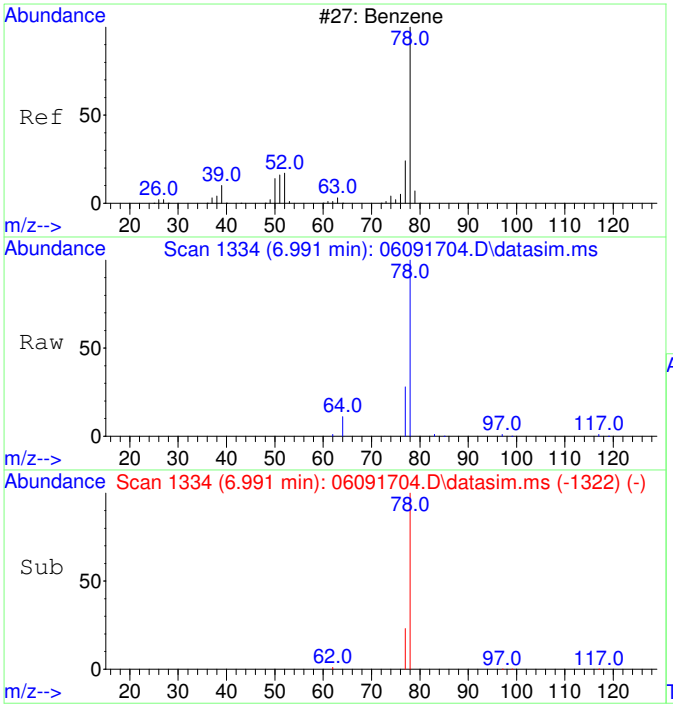


#8
Carbon tetrachloride
Concen: 50.12 ug/L
RT: 6.650 min Scan# 1306
Delta R.T. 0.012 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:117 Resp: 2781

Ion	Ratio	Lower	Upper
117	100		
119	92.0	65.5	125.5

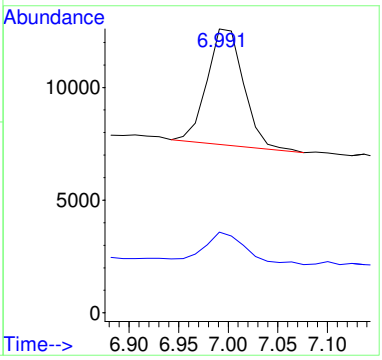


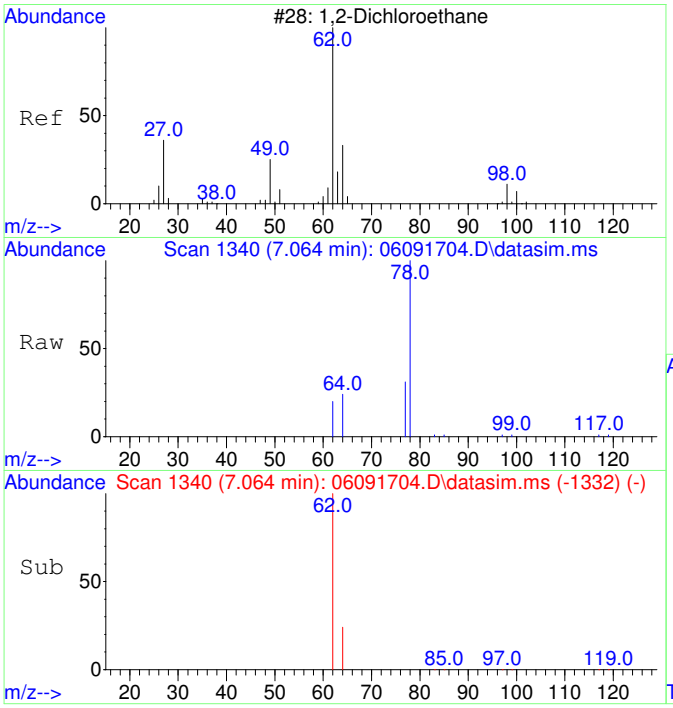


#9
Benzene
Concen: 80.23 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 78 Resp: 13086

Ion	Ratio	Lower	Upper
78	100		
77	25.3	0.0	53.0

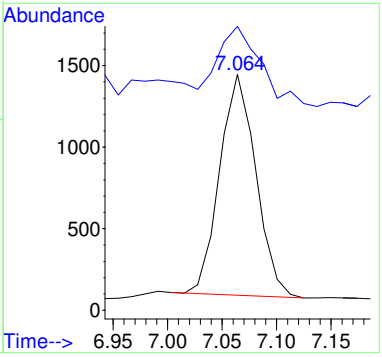


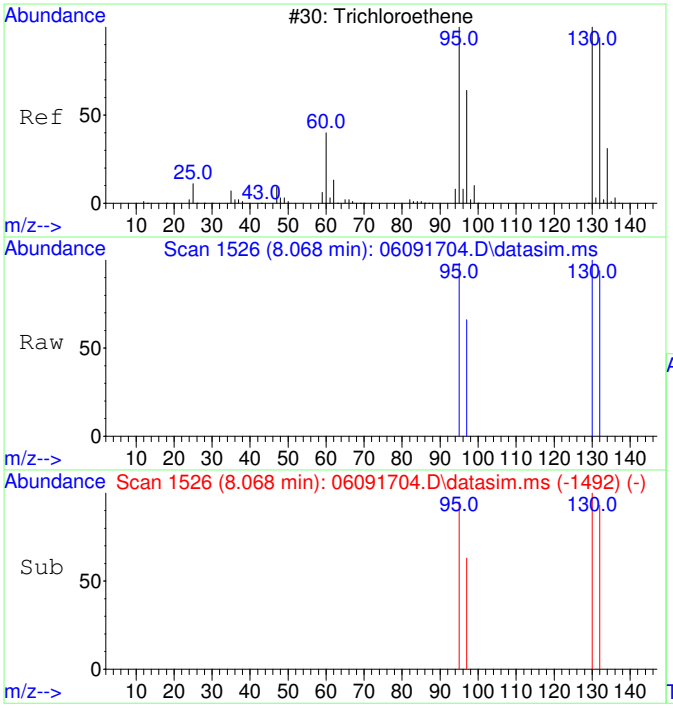


#10
1,2-Dichloroethane
Concen: 51.50 ug/L
RT: 7.064 min Scan# 1340
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 62 Resp: 3112

Ion	Ratio	Lower	Upper
62	100		
64	32.7	2.6	62.6

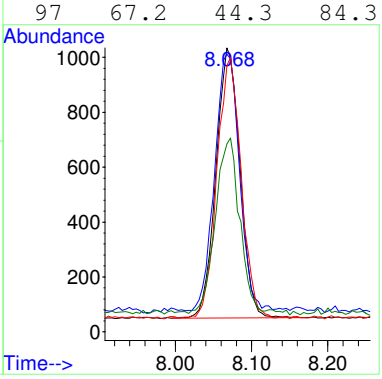


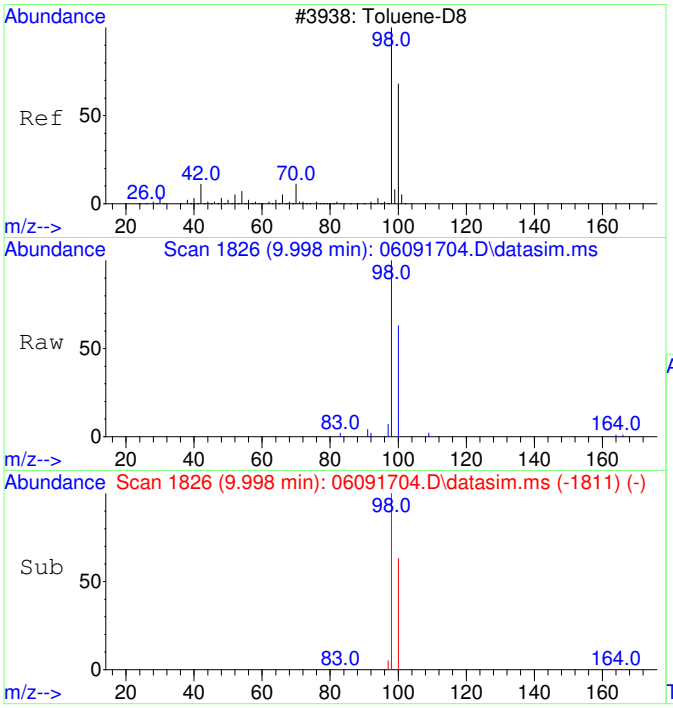


#11
Trichloroethene
Concen: 51.26 ug/L
RT: 8.068 min Scan# 1526
Delta R.T. 0.005 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:130 Resp: 2150

Ion	Ratio	Lower	Upper
130	100		
95	98.1	69.8	129.8
132	96.3	76.4	116.4
97	67.2	44.3	84.3

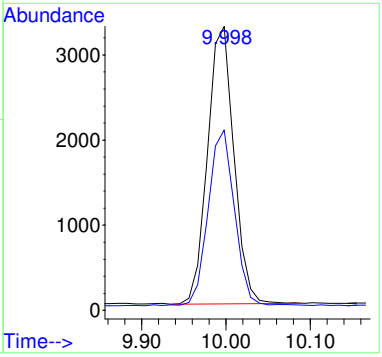


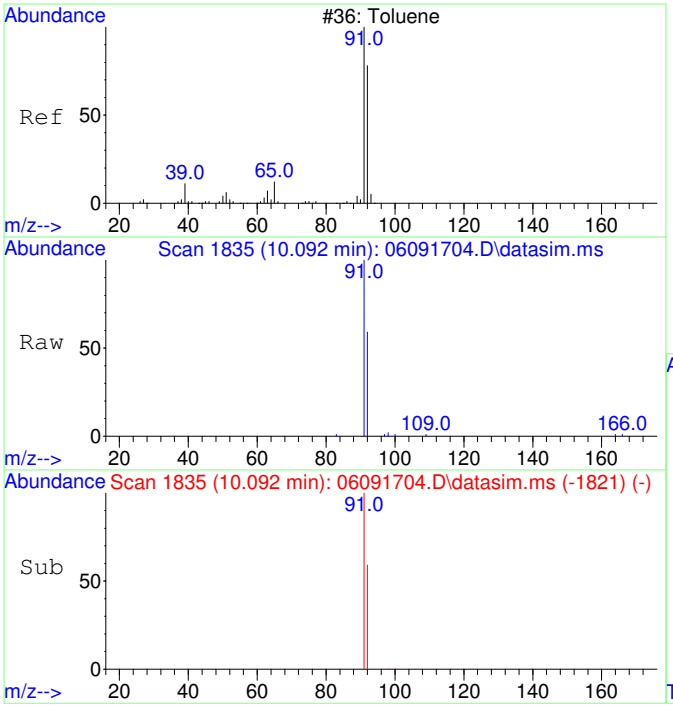


#12
Toluene-d8
Concen: 52.82 ug/L
RT: 9.998 min Scan# 1826
Delta R.T. 0.011 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 98 Resp: 7109

Ion	Ratio	Lower	Upper
98	100		
100	61.9	34.2	94.2

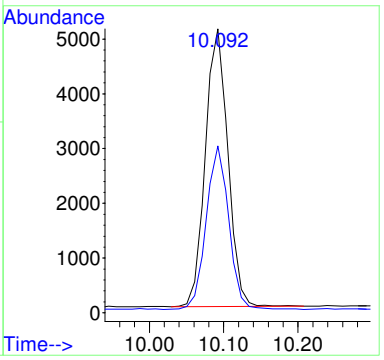


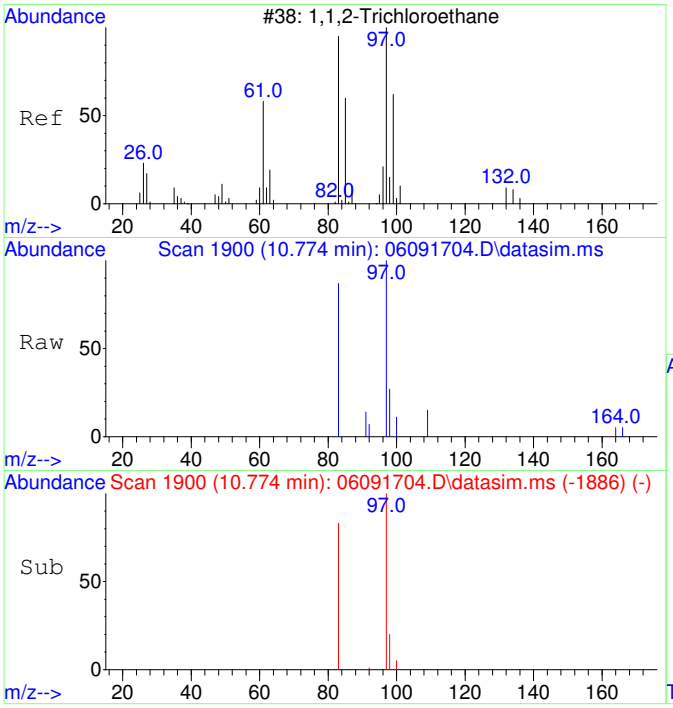


#13
Toluene
Concen: 59.81 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 10660

Ion	Ratio	Lower	Upper
91	100		
92	58.3	28.4	88.4

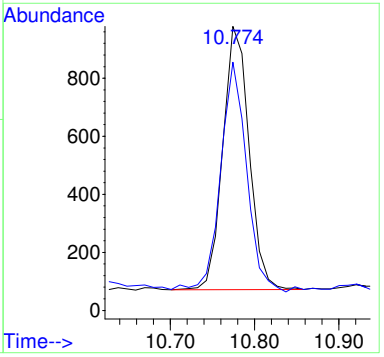


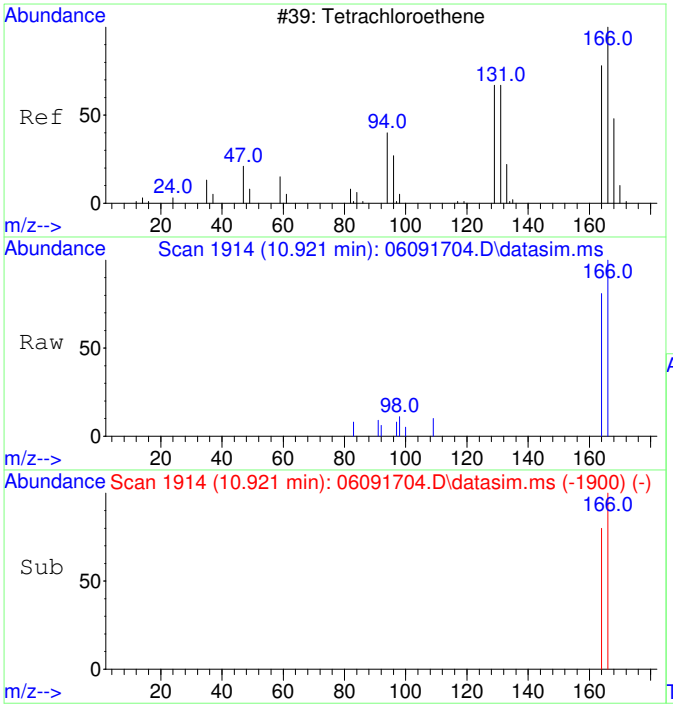


#14
1,1,2-Trichloroethane
Concen: 51.48 ug/L
RT: 10.774 min Scan# 1900
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 1962

Ion	Ratio	Lower	Upper
97	100		
83	83.3	54.5	114.5

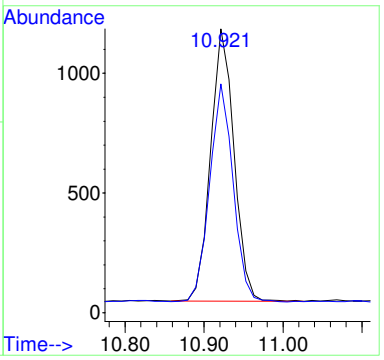


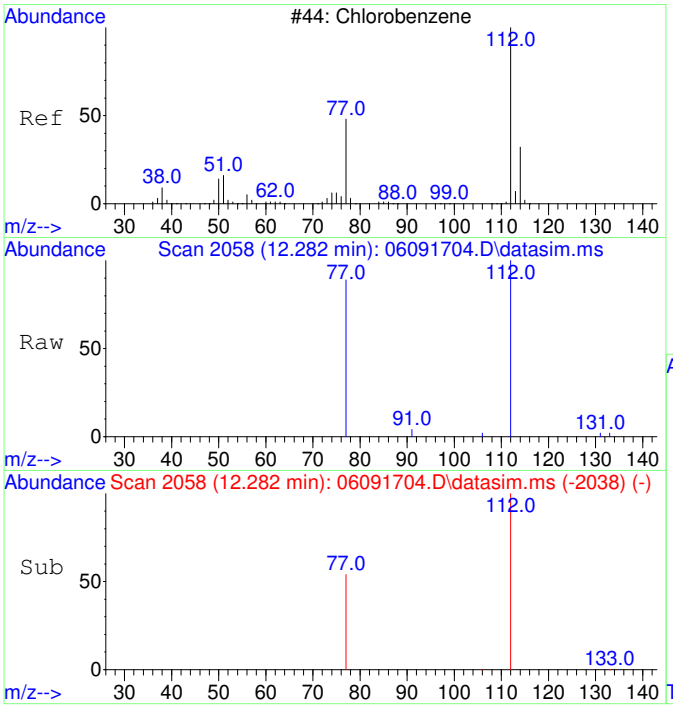


#15
Tetrachloroethene
Concen: 51.33 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:166 Resp: 2345

Ion	Ratio	Lower	Upper
166	100		
164	79.6	48.1	108.1

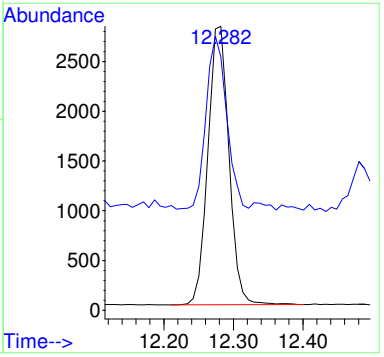


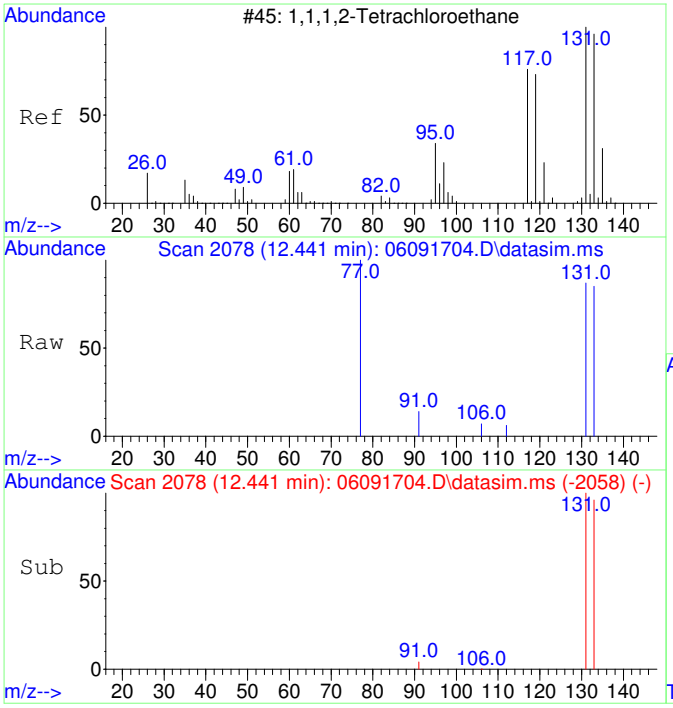


#16
Chlorobenzene
Concen: 52.05 ug/L
RT: 12.282 min Scan# 2058
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:112 Resp: 5893

Ion	Ratio	Lower	Upper
112	100		
77	59.5	28.9	88.9

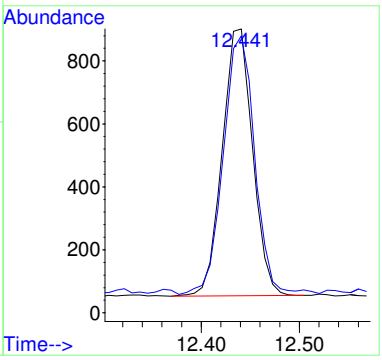


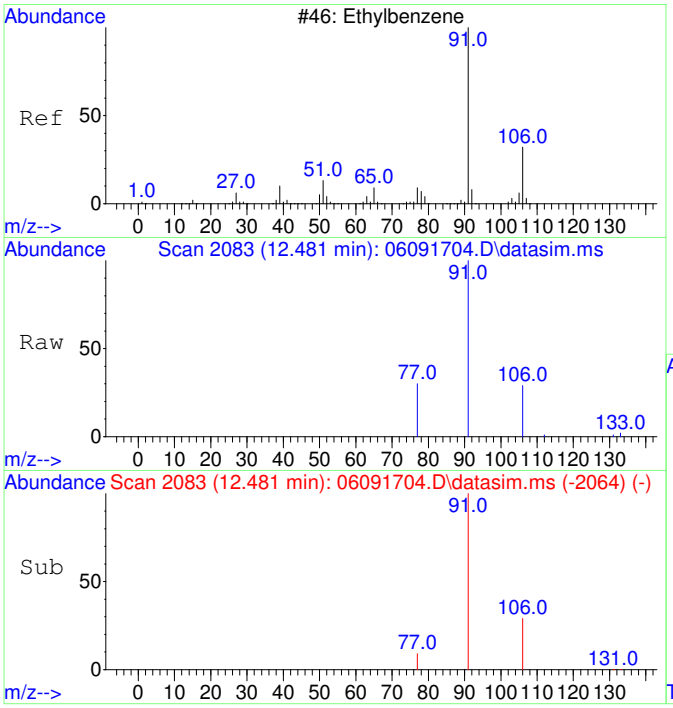


#17
1,1,1,2-Tetrachloroethane
Concen: 48.84 ug/L
RT: 12.441 min Scan# 2078
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:131 Resp: 1815

Ion	Ratio	Lower	Upper
131	100		
133	99.9	65.2	125.2

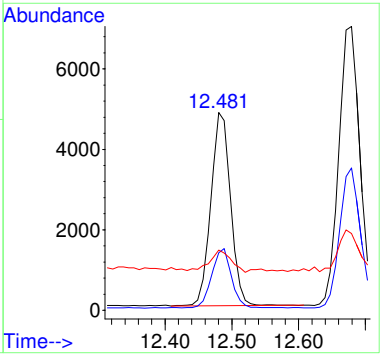


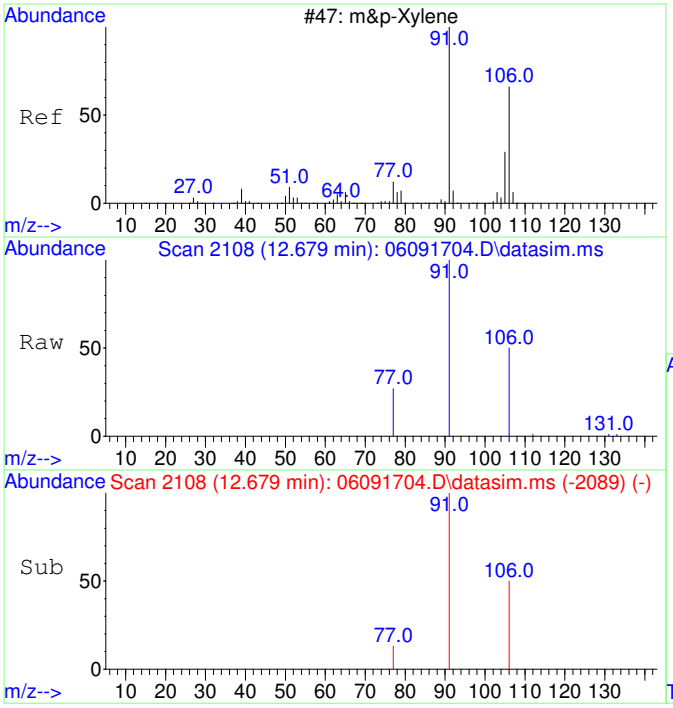


#18
Ethylbenzene
Concen: 51.25 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 9831

Ion	Ratio	Lower	Upper
91	100		
106	30.1	1.2	61.2
77	11.4	0.0	38.6

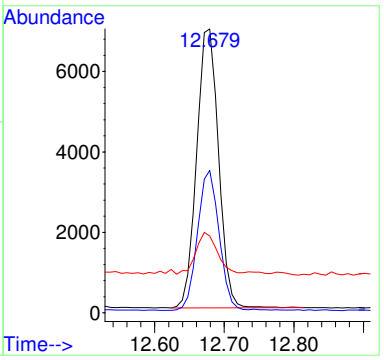


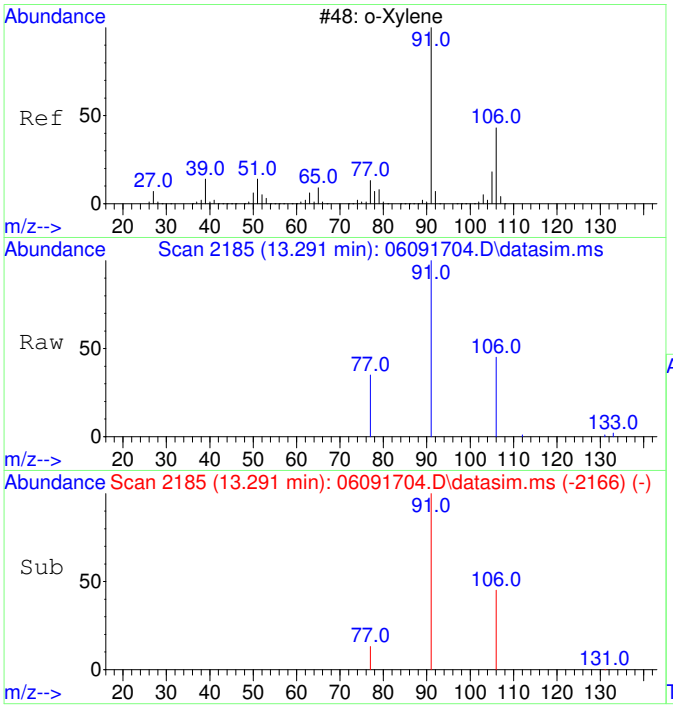


#19
m&p-Xylene
Concen: 100.95 ug/L
RT: 12.679 min Scan# 2108
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 15190

Ion	Ratio	Lower	Upper
91	100		
106	49.4	18.4	78.4
77	14.9	0.0	43.1

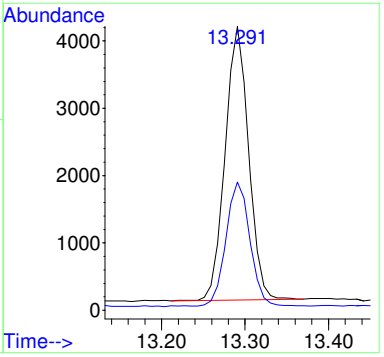


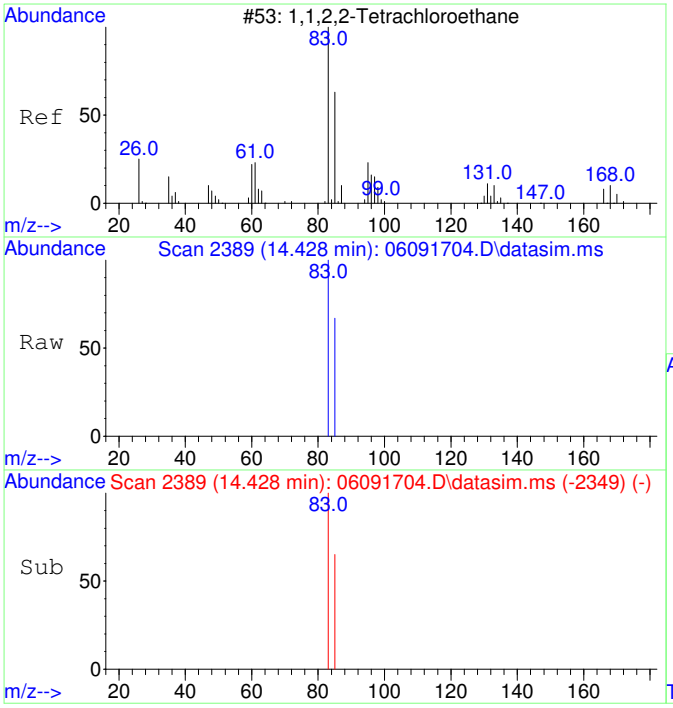


#20
o-Xylene
Concen: 51.07 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 7948

Ion	Ratio	Lower	Upper
91	100		
106	46.1	16.0	76.0

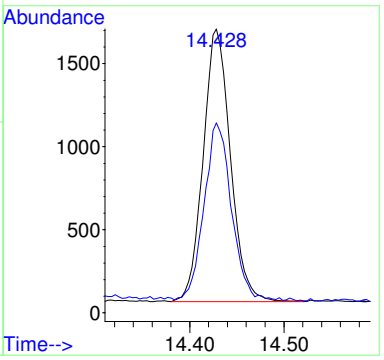


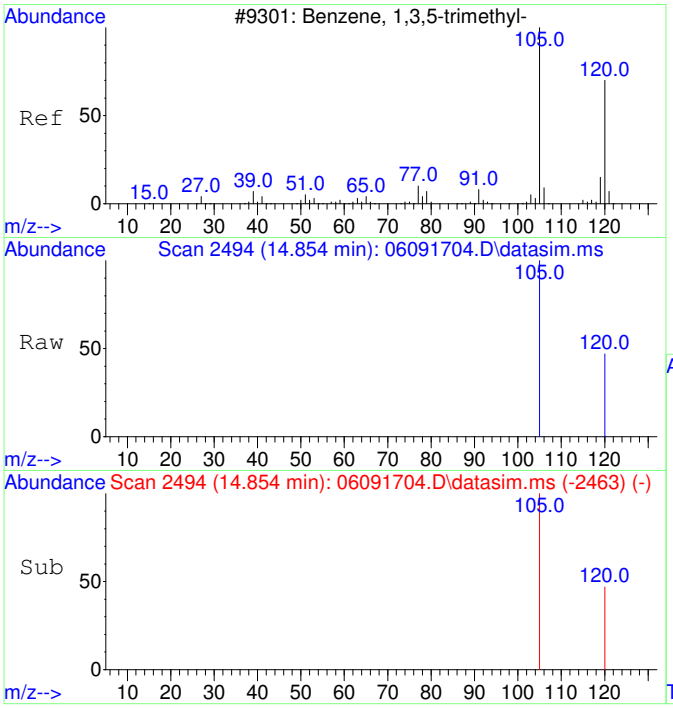


#21
1,1,2,2-Tetrachloroethane
Concen: 50.07 ug/L
RT: 14.428 min Scan# 2389
Delta R.T. -0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 83 Resp: 3314

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.1	94.1

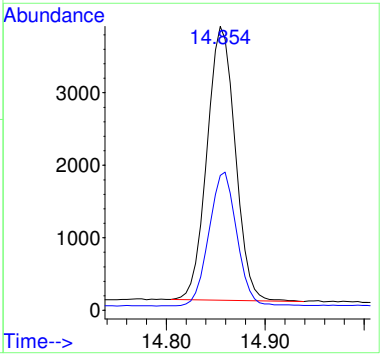


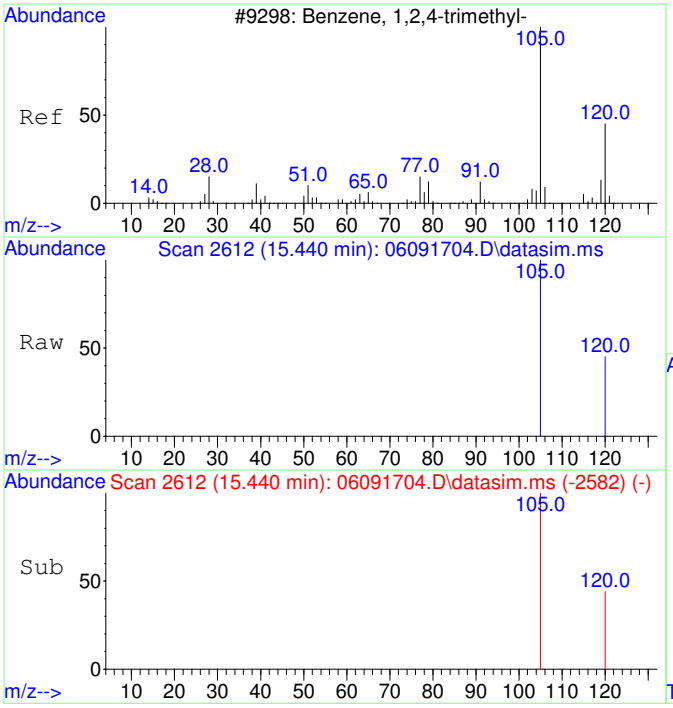


#22
1,3,5-Trimethylbenzene
Concen: 48.76 ug/L
RT: 14.854 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:105 Resp: 7493

Ion	Ratio	Lower	Upper
105	100		
120	48.4	18.0	78.0

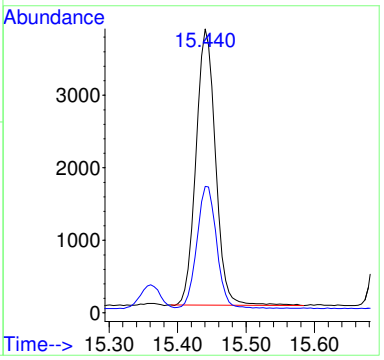


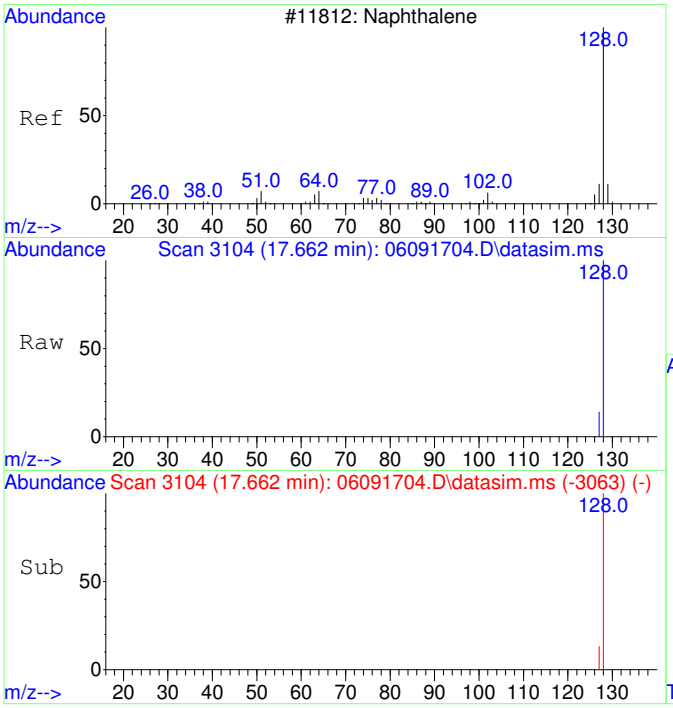


#23
1,2,4-Trimethylbenzene
Concen: 47.83 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:105 Resp: 7534

Ion	Ratio	Lower	Upper
105	100		
120	44.1	14.4	74.4

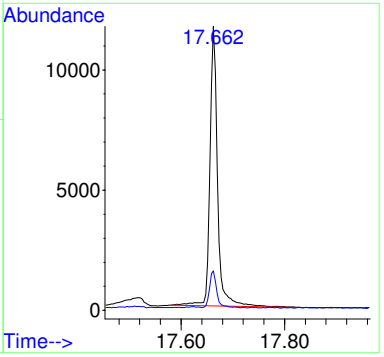


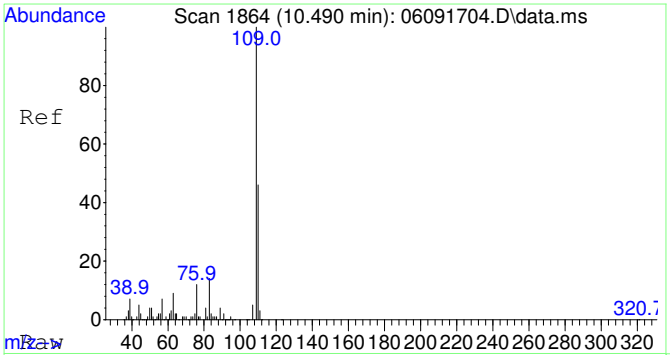


#24
Naphthalene
Concen: 50.71 ug/L
RT: 17.662 min Scan# 3104
Delta R.T. 0.001 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:128 Resp: 11830

Ion	Ratio	Lower	Upper
128	100		
127	12.5	0.0	42.7

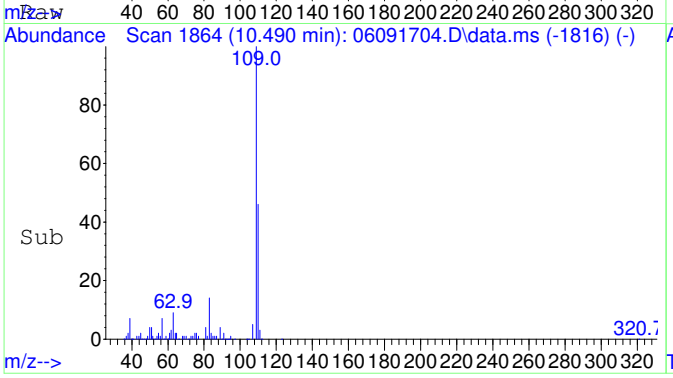


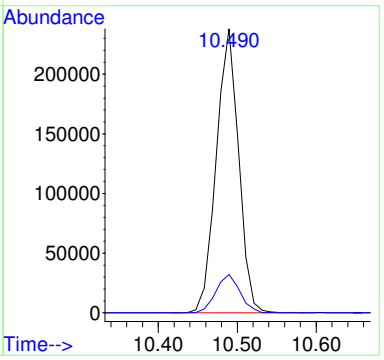


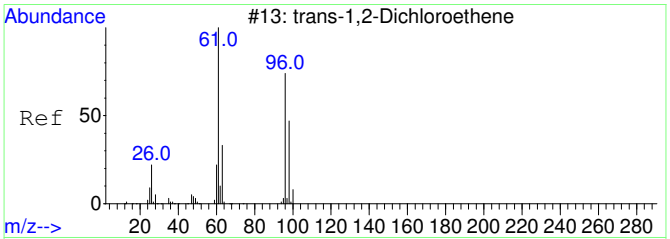
#25
2-Fluorotoluene SCAN
Concen: 4685.85 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:109 Resp: 466899

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	46.1



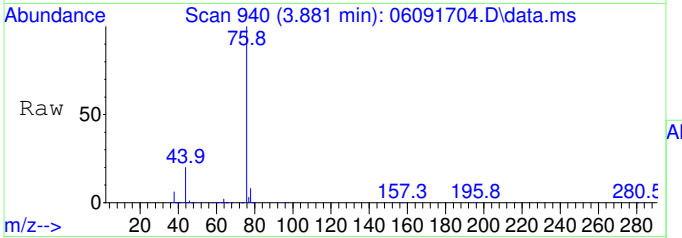


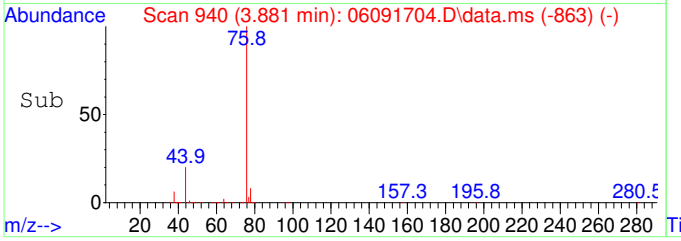


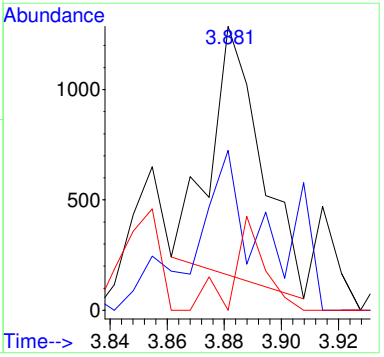
#27
trans-1,2-Dichloroethene SCAN
Concen: 30.78 ug/L
RT: 3.881 min Scan# 940
Delta R.T. 0.013 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

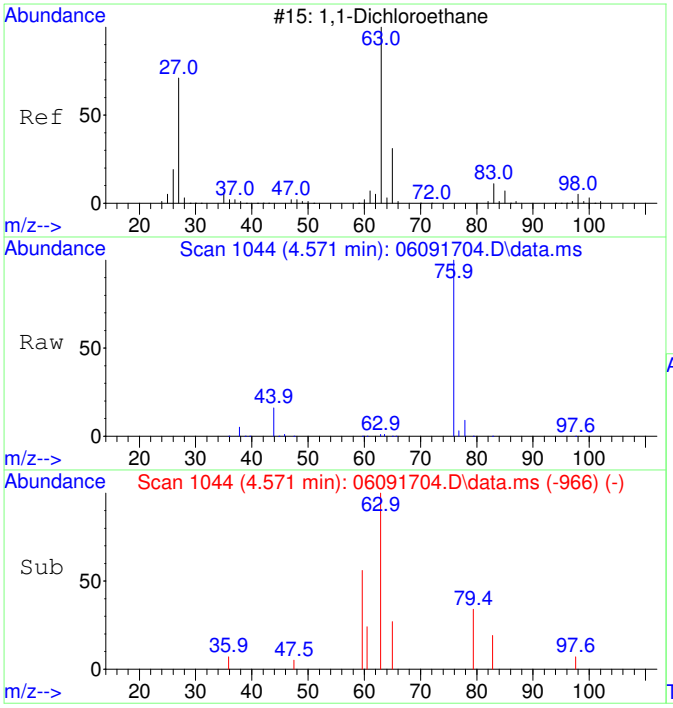
Tgt Ion: 61 Resp: 1377

Ion	Ratio	Lower	Upper
61	100		
96	93.8	26.1	86.1#
98	23.5	4.4	64.4





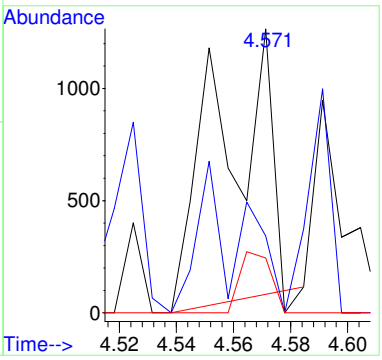


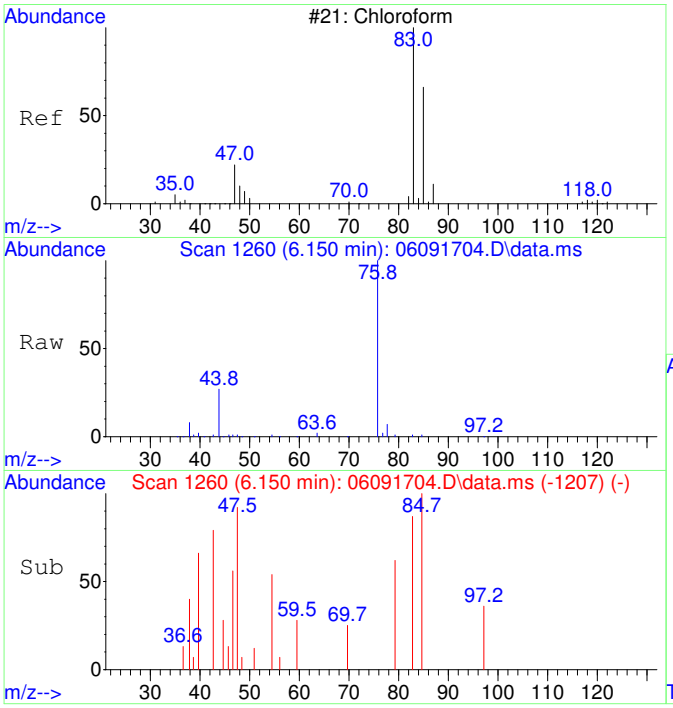


#28
1,1-Dichloroethane SCAN
Concen: 29.66 ug/L
RT: 4.571 min Scan# 1044
Delta R.T. 0.020 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 63 Resp: 1513

Ion	Ratio	Lower	Upper
63	100		
65	46.5	1.1	61.1
83	13.5	0.0	31.5

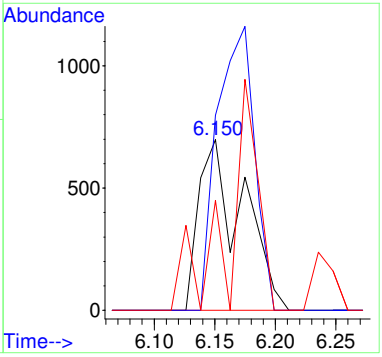


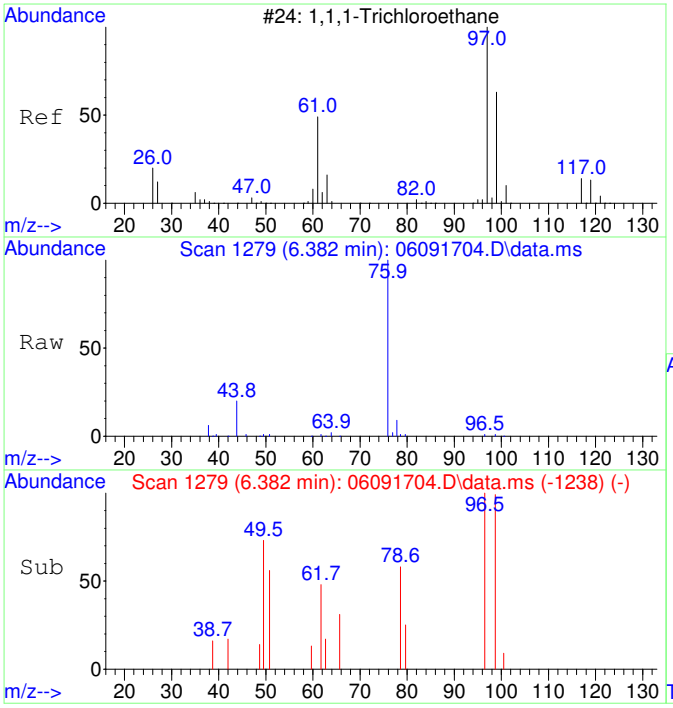


#30
Chloroform SCAN
Concen: 37.99 ug/L
RT: 6.150 min Scan# 1260
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 83 Resp: 1768

Ion	Ratio	Lower	Upper
83	100		
85	0.0	31.2	91.2#
47	0.0	3.2	63.2#

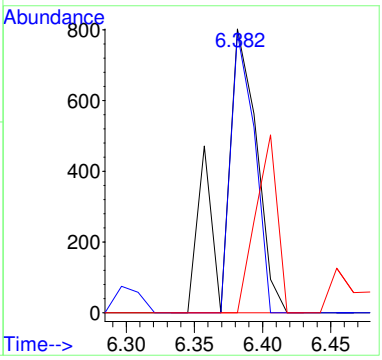


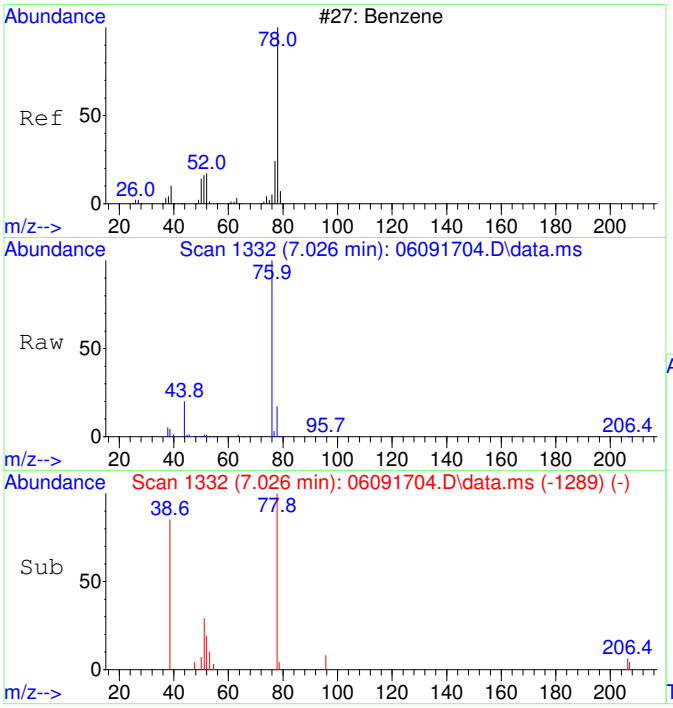


#31
1,1,1-Trichloroethane SCAN
Concen: 36.84 ug/L
RT: 6.382 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 1411

Ion	Ratio	Lower	Upper
97	100		
99	68.1	38.7	98.7
61	0.0	27.8	87.8#

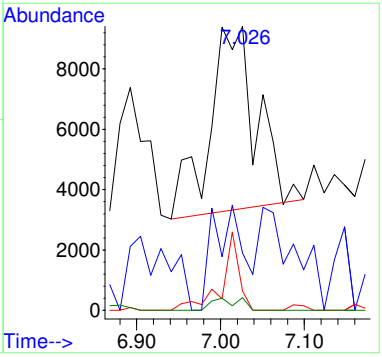


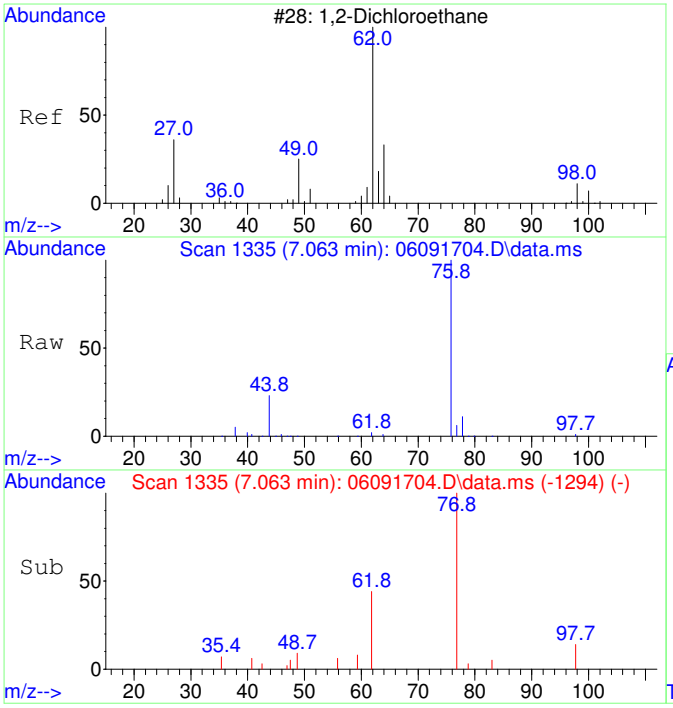


#33
Benzene SCAN
Concen: 225.89 ug/L
RT: 7.026 min Scan# 1332
Delta R.T. 0.024 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 78 Resp: 23827

Ion	Ratio	Lower	Upper
78	100		
77	26.8	0.0	55.2
51	15.4	0.0	52.4
52	4.0	0.0	53.3

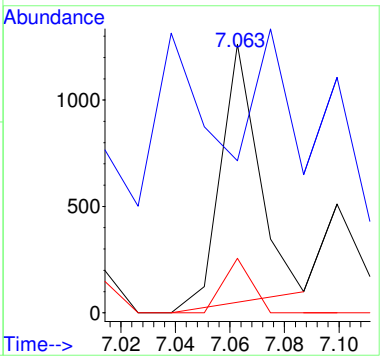


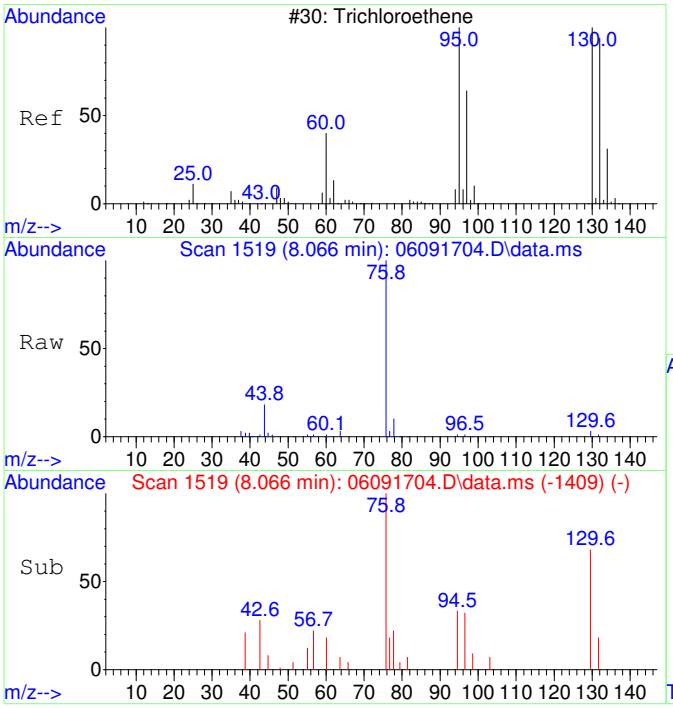


#34
1,2-Dichloroethane SCAN
Concen: 26.19 ug/L
RT: 7.063 min Scan# 1335
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 62 Resp: 1192

Ion	Ratio	Lower	Upper
62	100		
64	106.0	7.4	67.4#
49	15.7	0.0	54.8

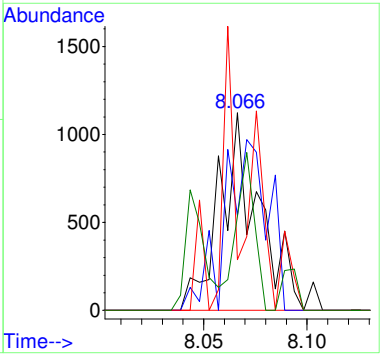


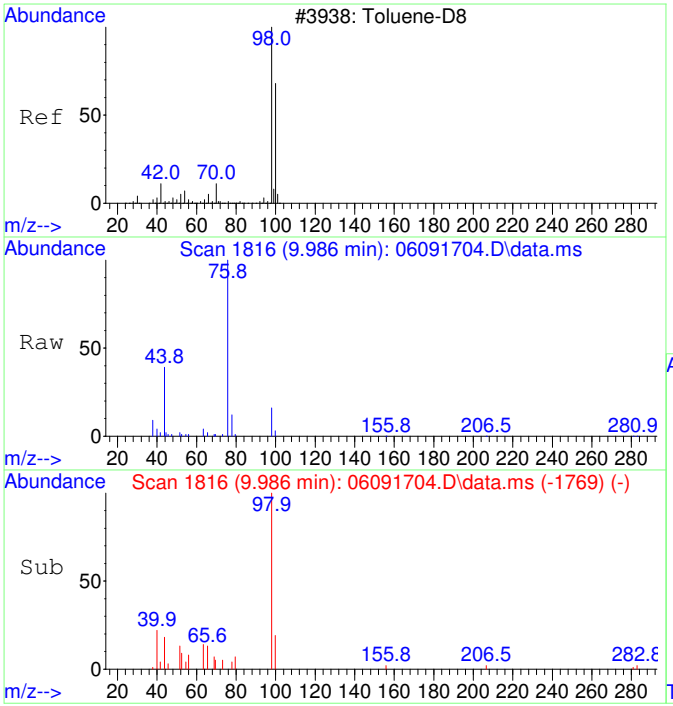


#35
Trichloroethene SCAN
Concen: 60.01 ug/L
RT: 8.066 min Scan# 1519
Delta R.T. 0.005 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:130 Resp: 1466

Ion	Ratio	Lower	Upper
130	100		
95	96.0	76.1	136.1
132	18.3	65.6	125.6#
97	31.9	41.8	101.8#

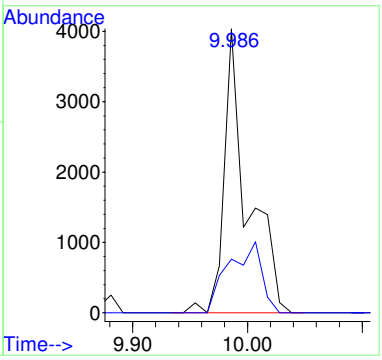


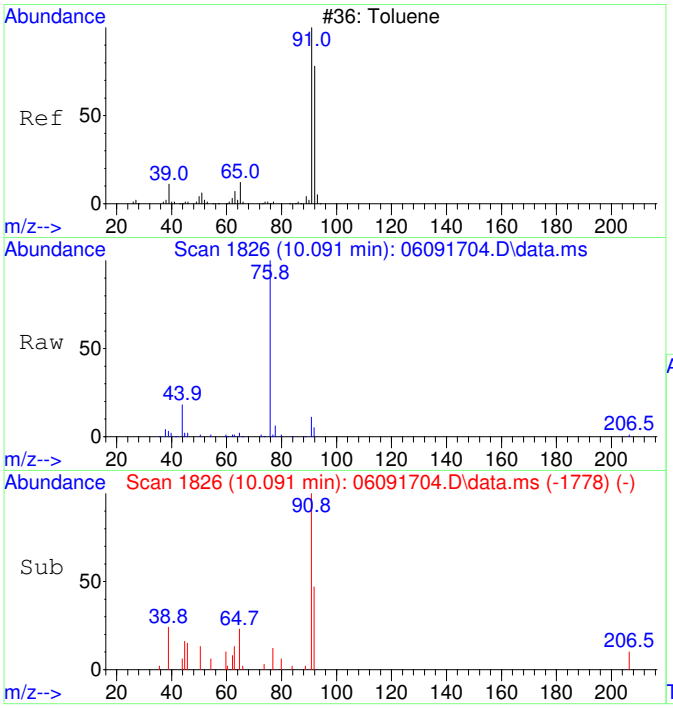


#36
Toluene-d8 SCAN
Concen: 69.64 ug/L
RT: 9.986 min Scan# 1816
Delta R.T. -0.010 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 98 Resp: 5727

Ion	Ratio	Lower	Upper
98	100		
100	0.0	36.2	96.2#

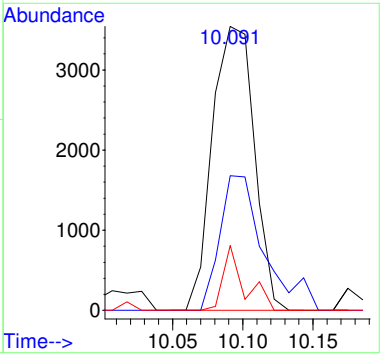


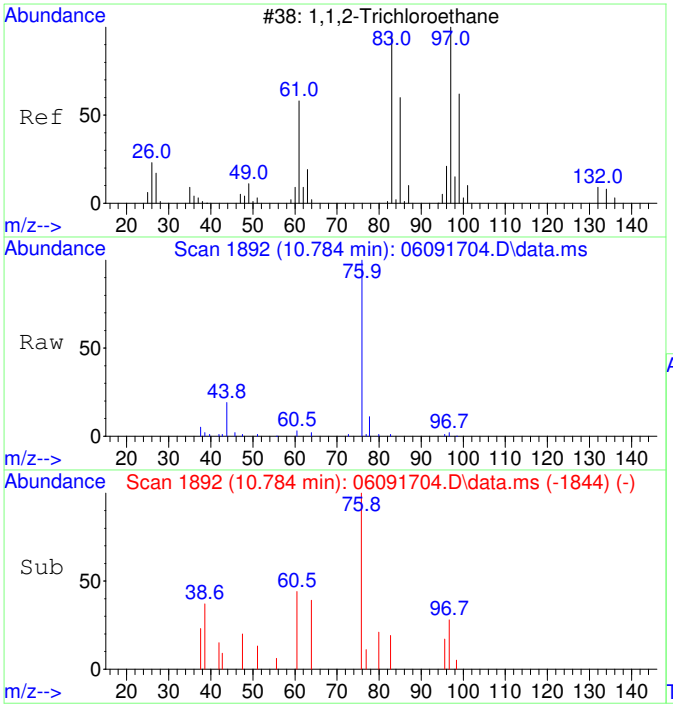


#37
Toluene SCAN
Concen: 67.30 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 7382

Ion	Ratio	Lower	Upper
91	100		
92	50.2	29.2	89.2
65	11.6	0.0	44.3

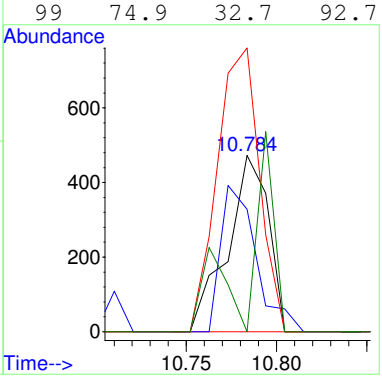


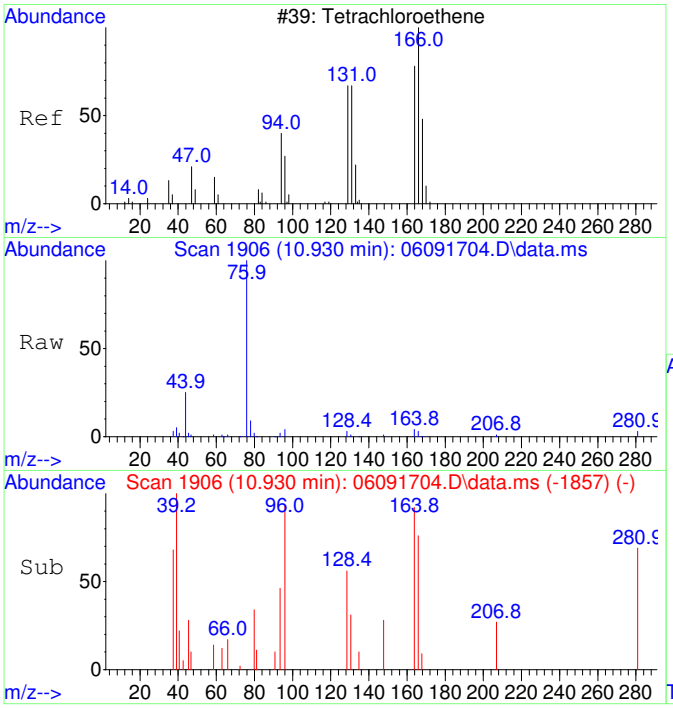


#38
1,1,2-Trichloroethane SCAN
Concen: 30.20 ug/L
RT: 10.784 min Scan# 1892
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 746

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.8	117.8#
61	166.2	48.6	108.6#
99	74.9	32.7	92.7

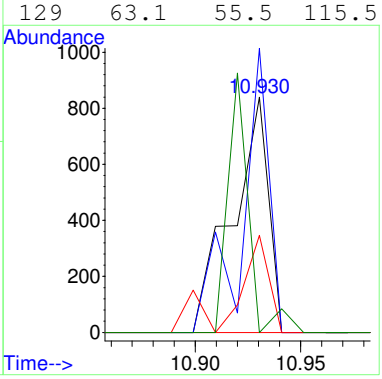


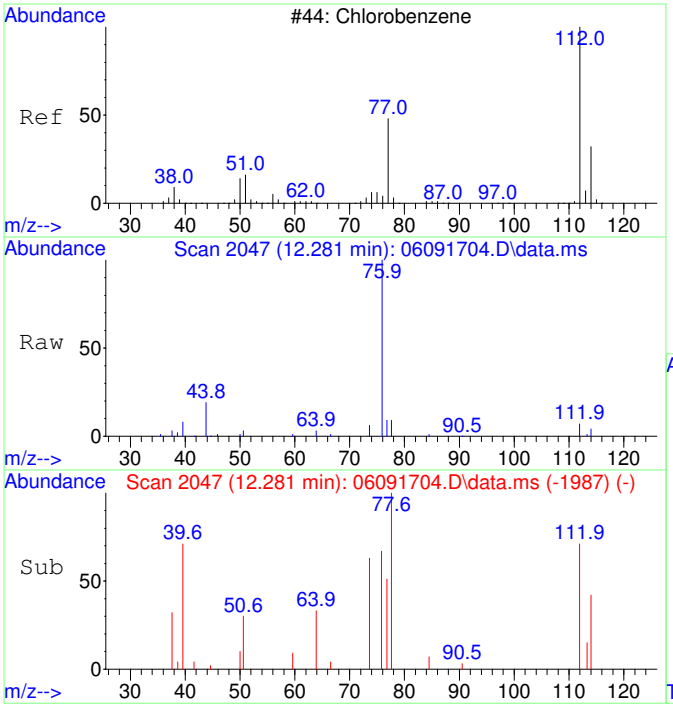


#39
Tetrachloroethene SCAN
Concen: 44.78 ug/L
RT: 10.930 min Scan# 1906
Delta R.T. 0.011 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:166 Resp: 1007

Ion	Ratio	Lower	Upper
166	100		
164	90.1	45.7	105.7
131	37.2	44.8	104.8#
129	63.1	55.5	115.5

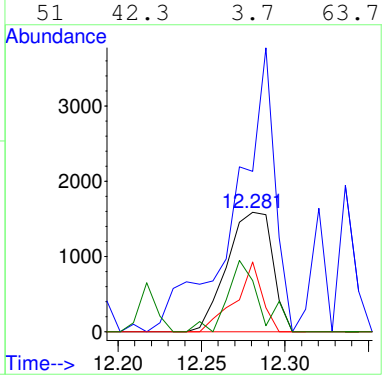


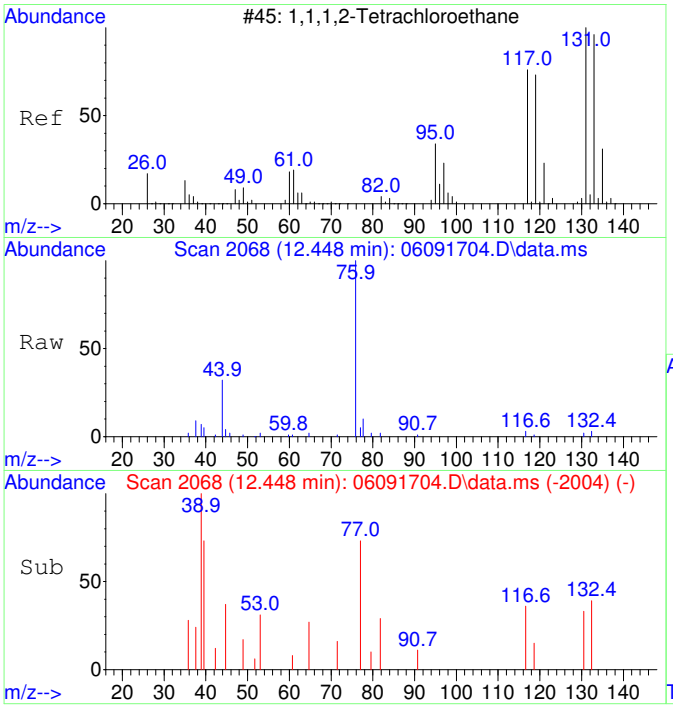


#40
Chlorobenzene SCAN
Concen: 44.80 ug/L
RT: 12.281 min Scan# 2047
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:112 Resp: 3018

Ion	Ratio	Lower	Upper
112	100		
77	205.1	35.1	95.1#
114	34.3	2.6	62.6
51	42.3	3.7	63.7

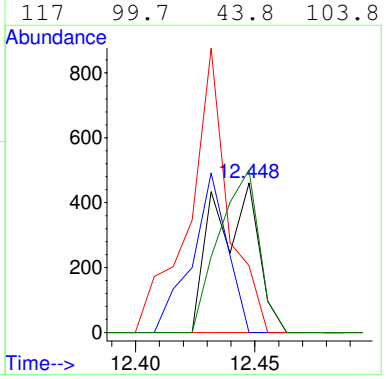


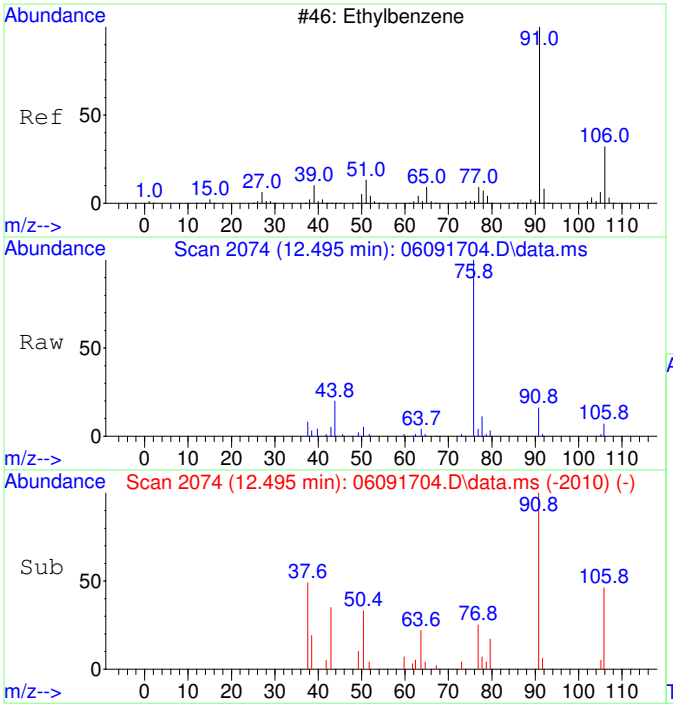


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 28.09 ug/L
RT: 12.448 min Scan# 2068
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:131 Resp: 589

Ion	Ratio	Lower	Upper
131	100		
133	85.9	63.5	123.5
119	168.3	38.0	98.0#
117	99.7	43.8	103.8

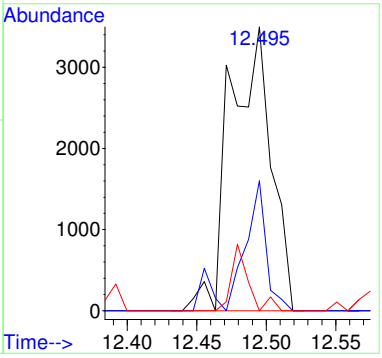


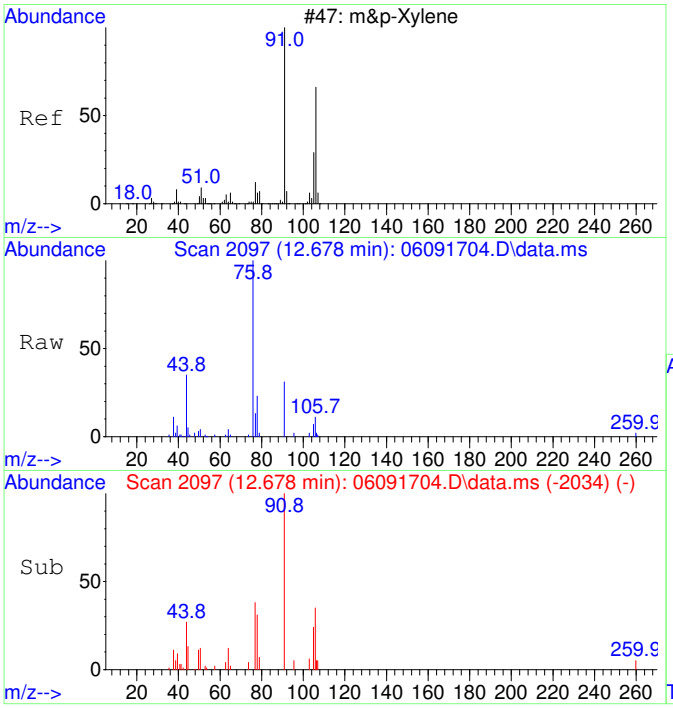


#42
Ethylbenzene SCAN
Concen: 58.77 ug/L
RT: 12.495 min Scan# 2074
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 7217

Ion	Ratio	Lower	Upper
91	100		
106	22.5	0.0	59.8
51	9.6	0.0	45.5

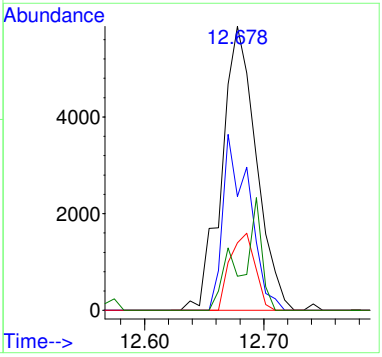


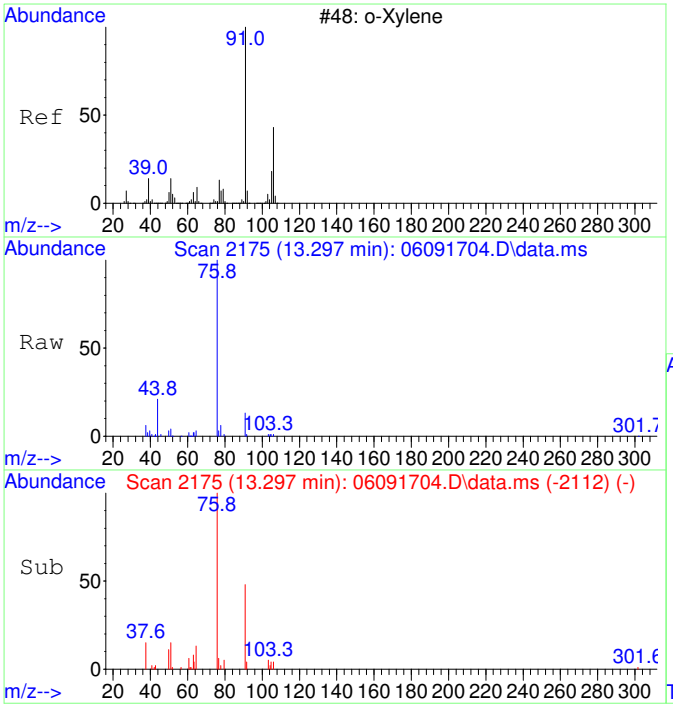


#43
m&p-Xylene SCAN
Concen: 61.87 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 11864

Ion	Ratio	Lower	Upper
91	100		
106	0.0	18.5	78.5#
105	19.8	0.0	51.3
51	23.9	0.0	45.7

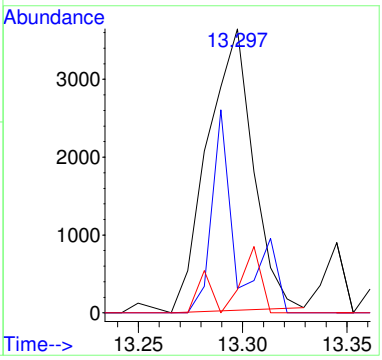


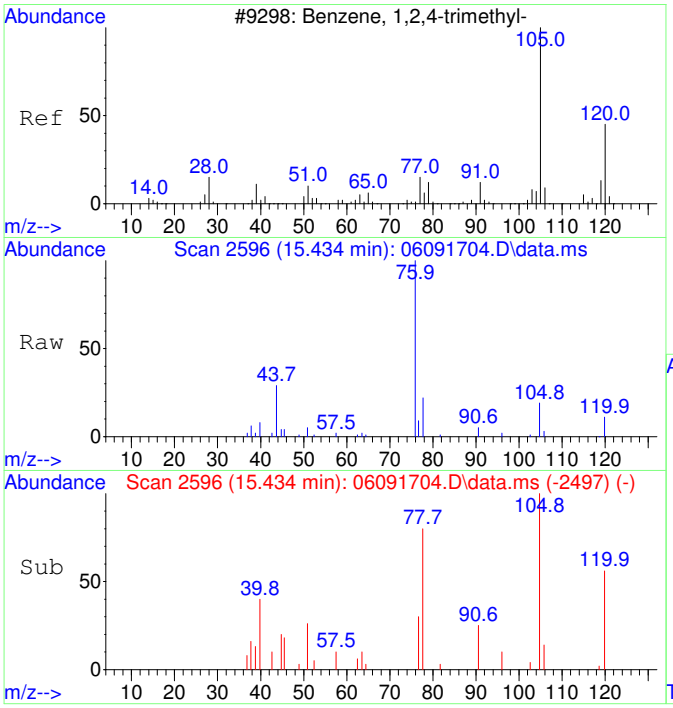


#44
o-Xylene SCAN
Concen: 55.75 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 5505

Ion	Ratio	Lower	Upper
91	100		
106	40.1	15.5	75.5
105	14.7	0.0	54.1

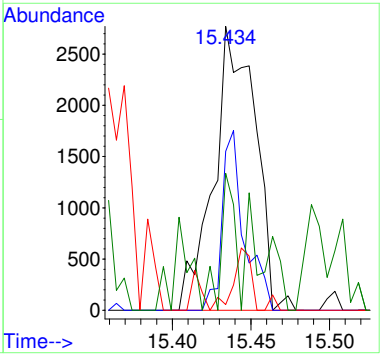


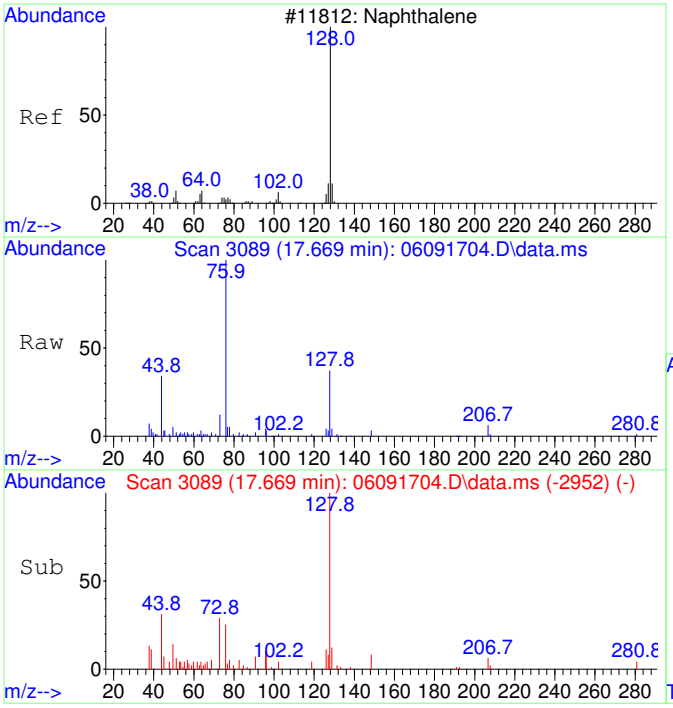


#47
1,2,4-Trimethylbenzene SCAN
Concen: 52.09 ug/L
RT: 15.434 min Scan# 2596
Delta R.T. -0.009 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:105 Resp: 5084

Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.9	72.9#
119	0.0	0.0	40.5
77	16.4	0.0	43.3

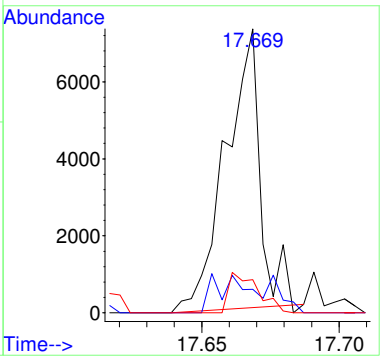




#48
Naphthalene SCAN
Concen: 47.01 ug/L
RT: 17.669 min Scan# 3089
Delta R.T. 0.009 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:128 Resp: 6328

Ion	Ratio	Lower	Upper
128	100		
127	19.4	0.0	43.9
129	12.3	0.0	41.0



Quantitation Report (QT Reviewed)

Table of Contents

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091704.D
Acq On : 9 Jun 2017 11:38
InstName : AG5975C
Operator : RH
Sample : S17F037-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

M.I. Performed By:
RH at 10:14 am, Jun 14, 2017

M.I. Approved By:
ZR at 11:53 am, Jun 14, 2017

Quant Time: Jun 09 11:56:56 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

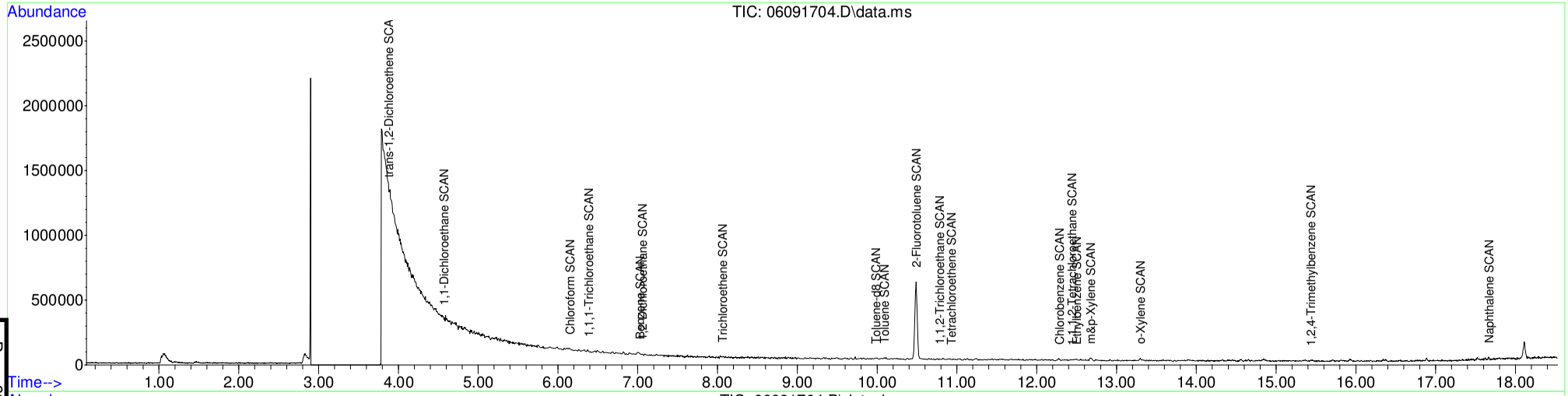
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.491	109	821821	5000.00 ug/L	0.01
System Monitoring Compounds					
12) Toluene-d8	9.998	98	7109	52.82 ug/L	0.01
Spiked Amount 5000.000	Range 70 - 130		Recovery =	1.06%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.711	61	3469m	53.52 ug/L	
3] trans-1,2-Dichloroethene	3.883	61	3805	54.16 ug/L	93
4] 1,1-Dichloroethane	4.559	63	4031	53.24 ug/L	99
5] cis-1,2-Dichloroethene	5.568	61	3778	52.20 ug/L	99
6] Chloroform	6.152	83	3916	55.91 ug/L	99
7] 1,1,1-Trichloroethane	6.383	97	3262	50.71 ug/L	99
8] Carbon tetrachloride	6.650	117	2781	50.12 ug/L	96
9] Benzene	6.991	78	13086	80.23 ug/L	95
10] 1,2-Dichloroethane	7.064	62	3112	51.50 ug/L	100
11] Trichloroethene	8.068	130	2150	51.26 ug/L	98
13] Toluene	10.092	91	10660	59.81 ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	1962	51.48 ug/L	99
15] Tetrachloroethene	10.921	166	2345	51.33 ug/L	98
16] Chlorobenzene	12.282	112	5893	52.05 ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.441	131	1815	48.84 ug/L	95
18] Ethylbenzene	12.481	91	9831	51.25 ug/L	97
19] m&p-Xylene	12.679	91	15190	100.95 ug/L	98
20] o-Xylene	13.291	91	7948	51.07 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	3314	50.07 ug/L	99
22] 1,3,5-Trimethylbenzene	14.854	105	7493	48.76 ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	7534	47.83 ug/L	100
24] Naphthalene	17.662	128	11830	50.71 ug/L	99
25) 2-Fluorotoluene SCAN	10.490	109	466899	4685.85 ug/L	96
27) trans-1,2-Dichloroethe...	3.881	61	1377	30.78 ug/L #	61
28) 1,1-Dichloroethane SCAN	4.571	63	1513	29.66 ug/L	72
30) Chloroform SCAN	6.150	83	1768	37.99 ug/L #	27
31) 1,1,1-Trichloroethane ...	6.382	97	1411	36.84 ug/L #	64
33) Benzene SCAN	7.026	78	23827	225.89 ug/L	81
34) 1,2-Dichloroethane SCAN	7.063	62	1192	26.19 ug/L #	24
35) Trichloroethene SCAN	8.066	130	1466	60.01 ug/L #	56
36) Toluene-d8 SCAN	9.986	98	5727	69.64 ug/L #	17
37) Toluene SCAN	10.091	91	7382	67.30 ug/L	89
38) 1,1,2-Trichloroethane ...	10.784	97	746	30.20 ug/L #	25
39) Tetrachloroethene SCAN	10.930	166	1007	44.78 ug/L #	72
40) Chlorobenzene SCAN	12.281	112	3018	44.80 ug/L #	8
41) 1,1,1,2-Tetrachloroeth...	12.448	131	589	28.09 ug/L #	51
42) Ethylbenzene SCAN	12.495	91	7217	58.77 ug/L	86
43) m&p-Xylene SCAN	12.678	91	11864	61.87 ug/L #	55
44) o-Xylene SCAN	13.297	91	5505	55.75 ug/L	88
47) 1,2,4-Trimethylbenzene...	15.434	105	5084	52.09 ug/L #	51
48) Naphthalene SCAN	17.669	128	6328	47.01 ug/L	91

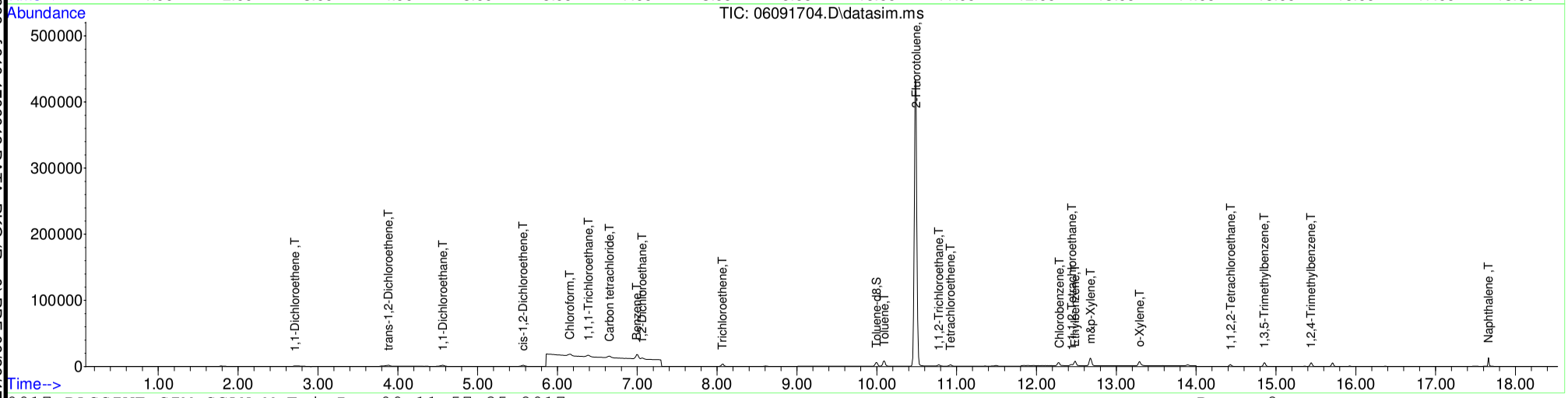
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091704.D
Acq On : 9 Jun 2017 11:38
InstName : AG5975C
Operator : RH
Sample : S17F037-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 09 11:56:56 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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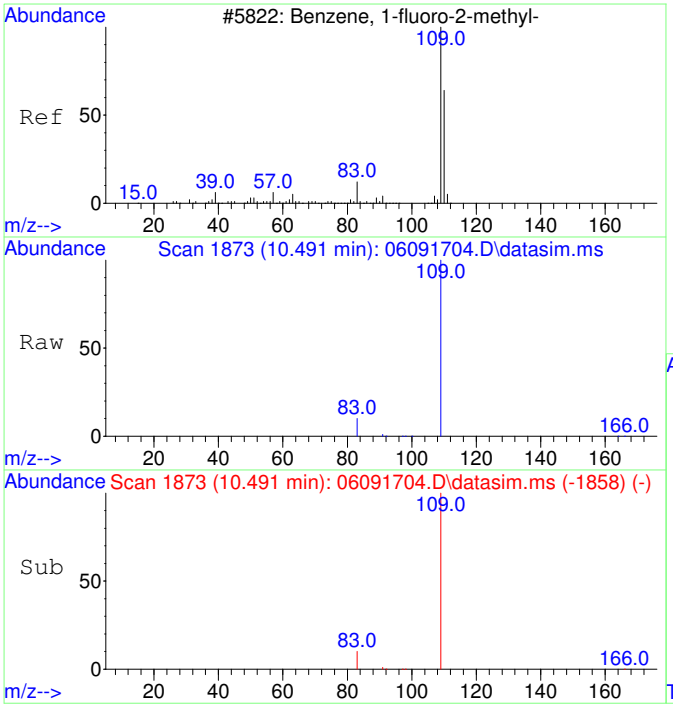
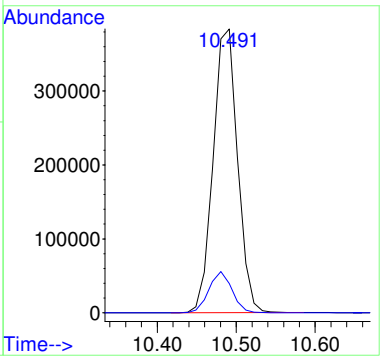
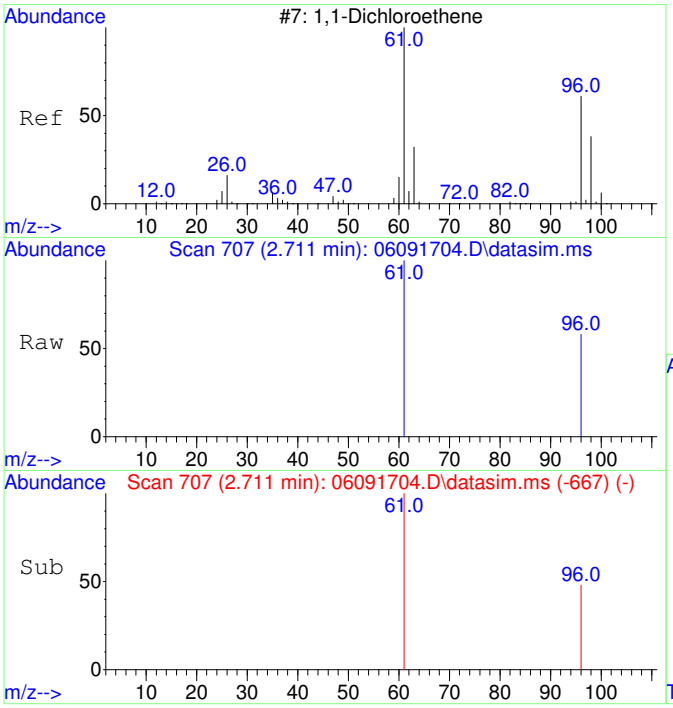


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.491 min Scan# 1873
Delta R.T. 0.011 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:109 Resp: 821821

Ion	Ratio	Lower	Upper
109	100		
83	13.6	0.0	44.4

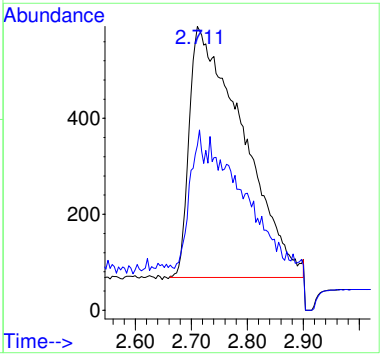


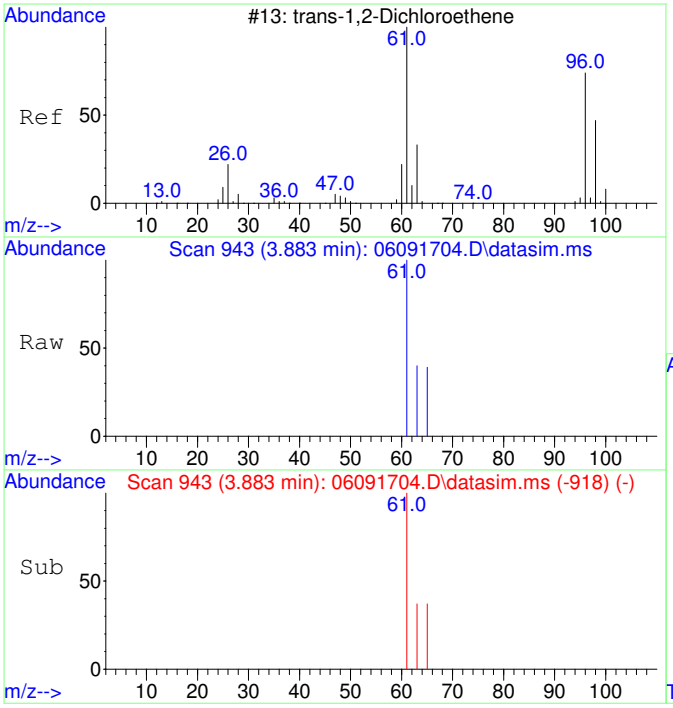


#2
1,1-Dichloroethene
Concen: 53.52 ug/L m
RT: 2.711 min Scan# 707
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 61 Resp: 3469

Ion	Ratio	Lower	Upper
61	100		
96	56.3	21.8	81.8

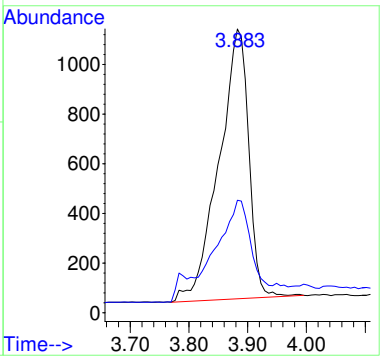


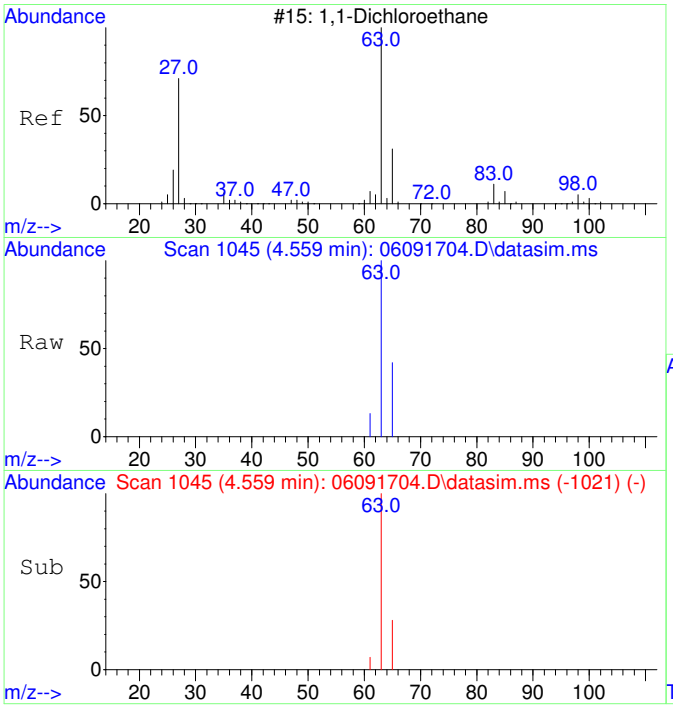


#3
trans-1,2-Dichloroethene
Concen: 54.16 ug/L
RT: 3.883 min Scan# 943
Delta R.T. 0.013 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 61 Resp: 3805

Ion	Ratio	Lower	Upper
61	100		
63	27.3	1.0	61.0

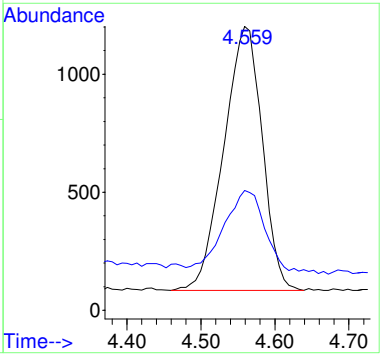


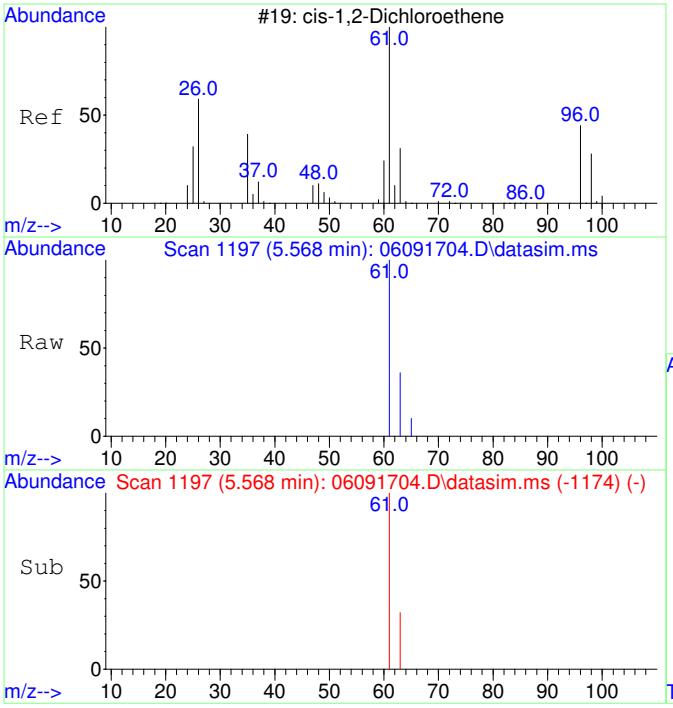


#4
1,1-Dichloroethane
Concen: 53.24 ug/L
RT: 4.559 min Scan# 1045
Delta R.T. 0.007 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 63 Resp: 4031

Ion	Ratio	Lower	Upper
63	100		
65	30.9	0.4	60.4

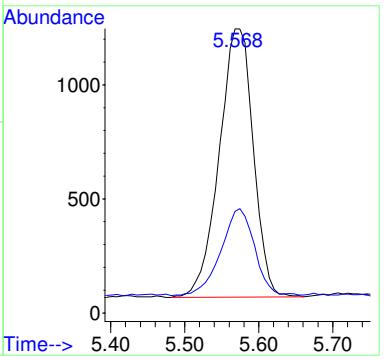


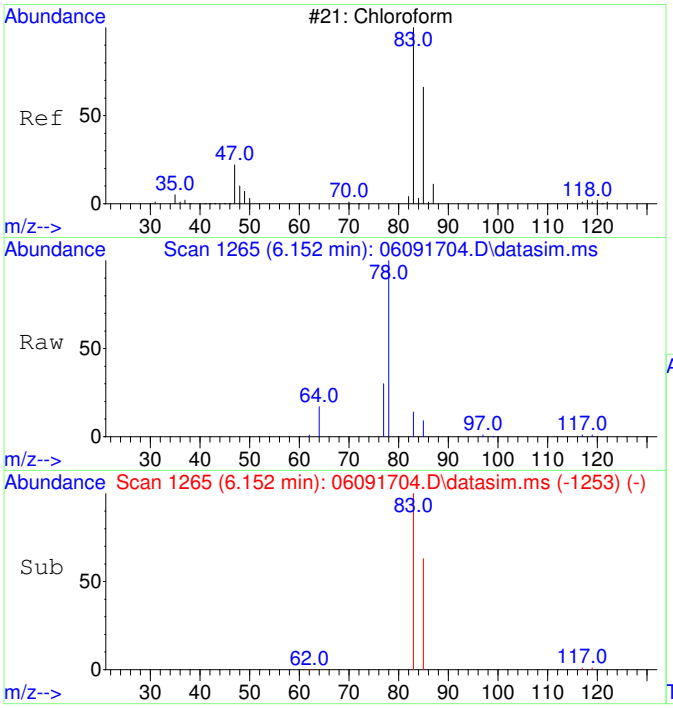


#5
cis-1,2-Dichloroethene
Concen: 52.20 ug/L
RT: 5.568 min Scan# 1197
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 61 Resp: 3778

Ion	Ratio	Lower	Upper
61	100		
63	31.6	0.9	60.9

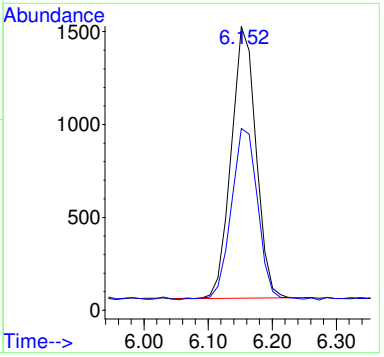


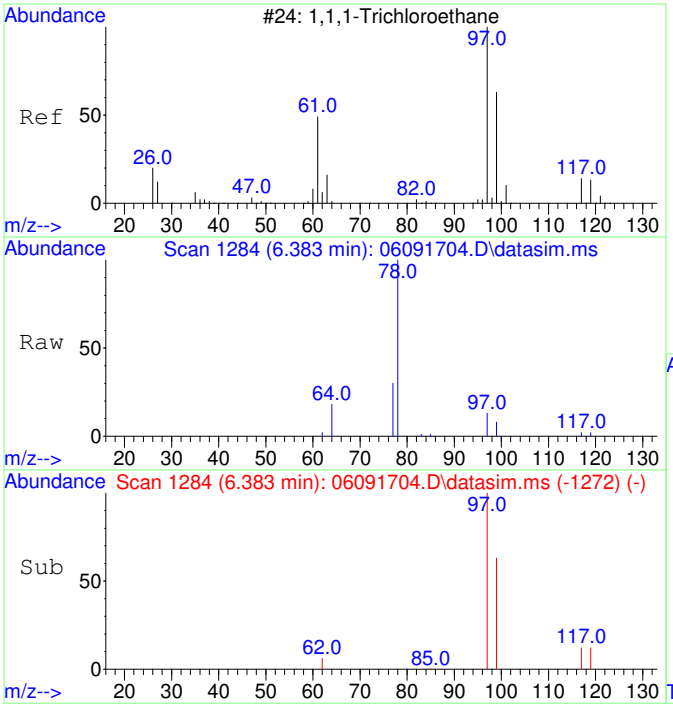


#6
Chloroform
Concen: 55.91 ug/L
RT: 6.152 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 83 Resp: 3916

Ion	Ratio	Lower	Upper
83	100		
85	64.8	33.7	93.7

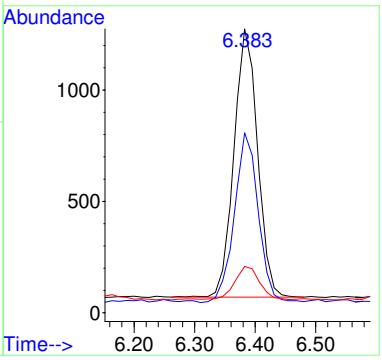


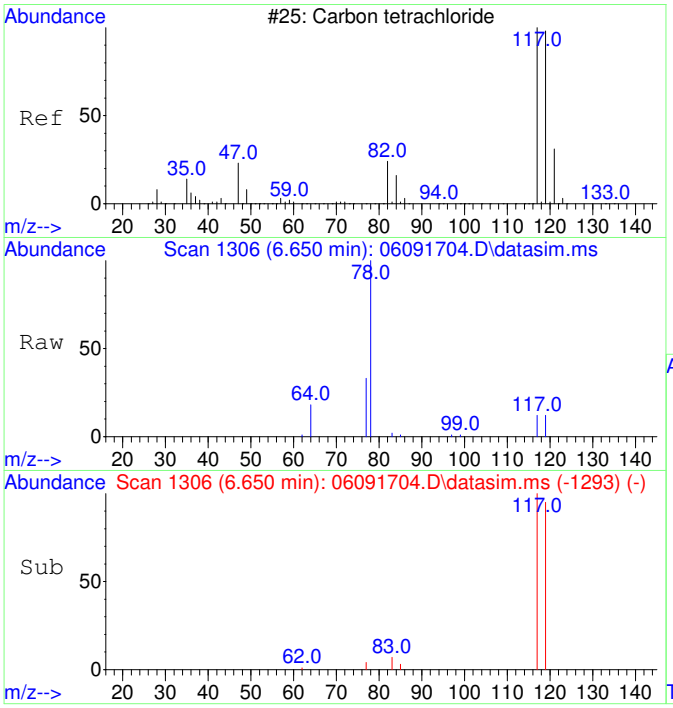


#7
1,1,1-Trichloroethane
Concen: 50.71 ug/L
RT: 6.383 min Scan# 1284
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 3262

Ion	Ratio	Lower	Upper
97	100		
99	63.4	34.3	94.3
117	12.4	0.0	42.3

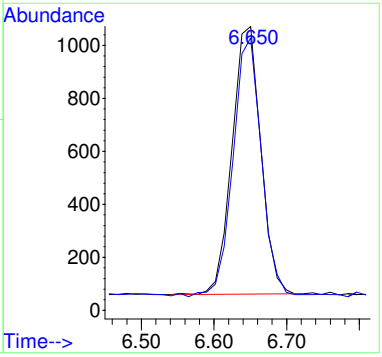


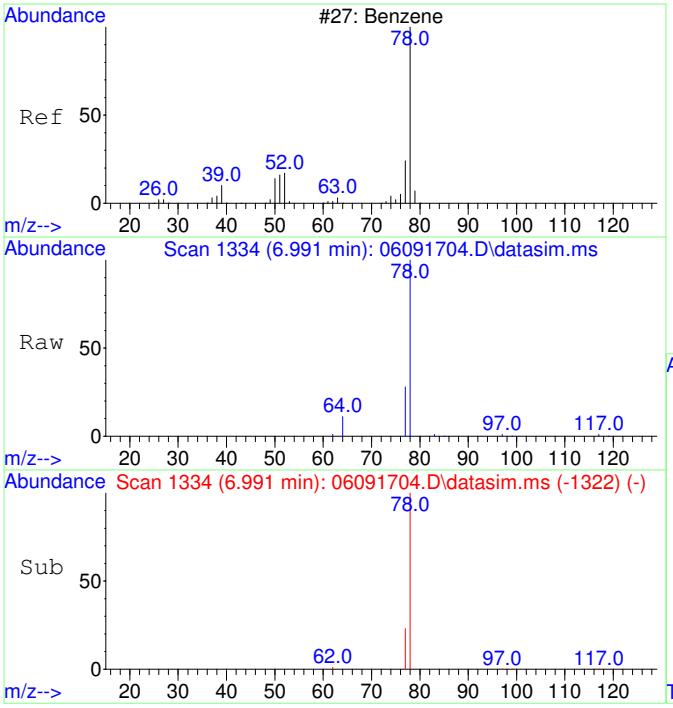


#8
Carbon tetrachloride
Concen: 50.12 ug/L
RT: 6.650 min Scan# 1306
Delta R.T. 0.012 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:117 Resp: 2781

Ion	Ratio	Lower	Upper
117	100		
119	92.0	65.5	125.5

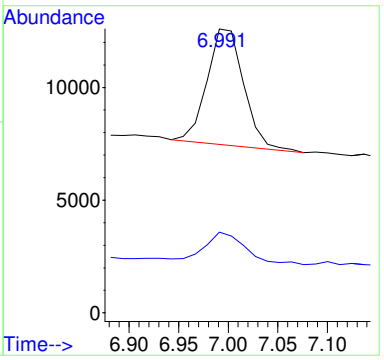


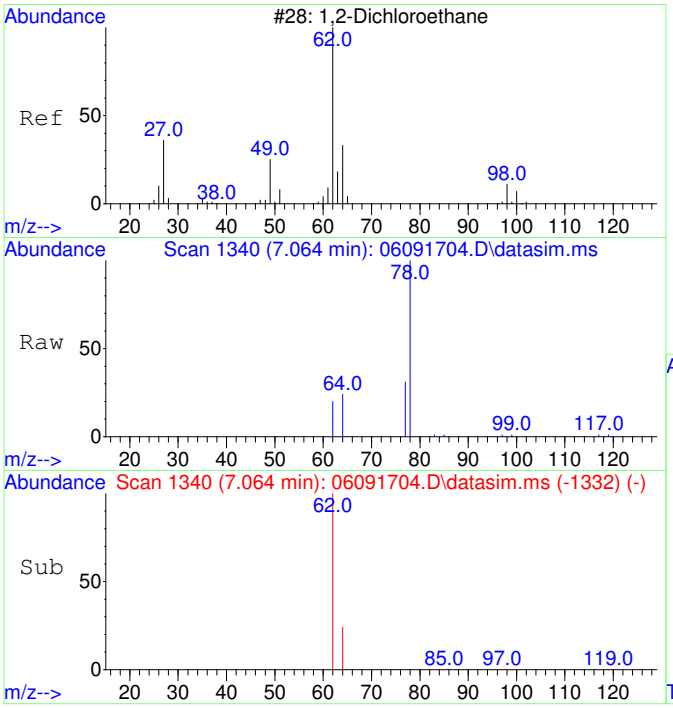


#9
Benzene
Concen: 80.23 ug/L
RT: 6.991 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 78 Resp: 13086

Ion	Ratio	Lower	Upper
78	100		
77	25.3	0.0	53.0

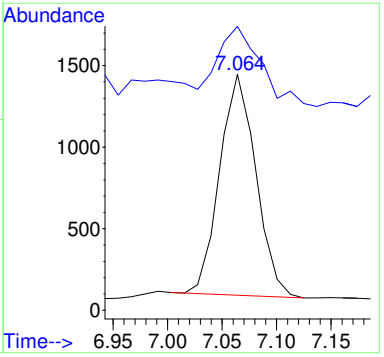


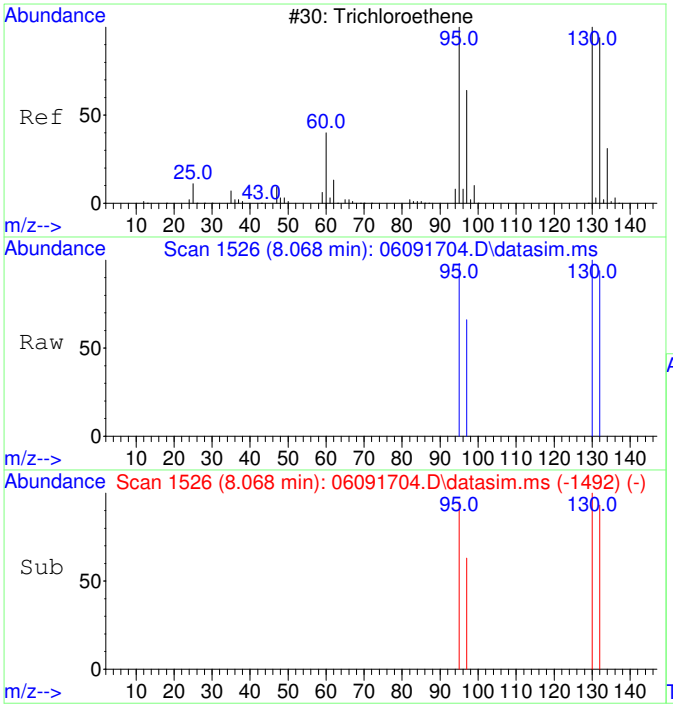


#10
1,2-Dichloroethane
Concen: 51.50 ug/L
RT: 7.064 min Scan# 1340
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 62 Resp: 3112

Ion	Ratio	Lower	Upper
62	100		
64	32.7	2.6	62.6

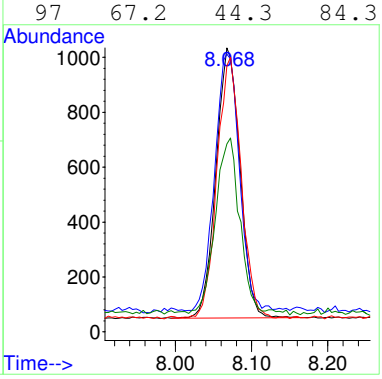


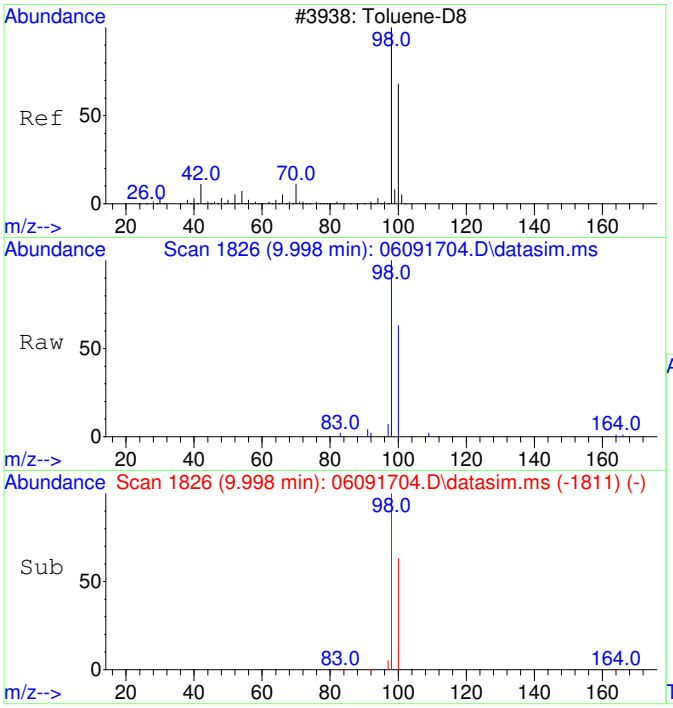


#11
Trichloroethene
Concen: 51.26 ug/L
RT: 8.068 min Scan# 1526
Delta R.T. 0.005 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:130 Resp: 2150

Ion	Ratio	Lower	Upper
130	100		
95	98.1	69.8	129.8
132	96.3	76.4	116.4
97	67.2	44.3	84.3

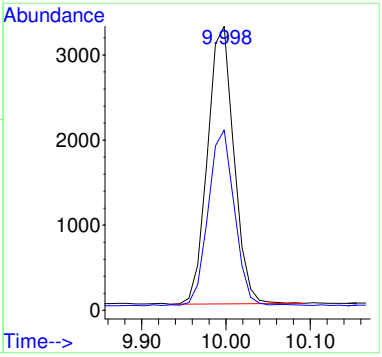


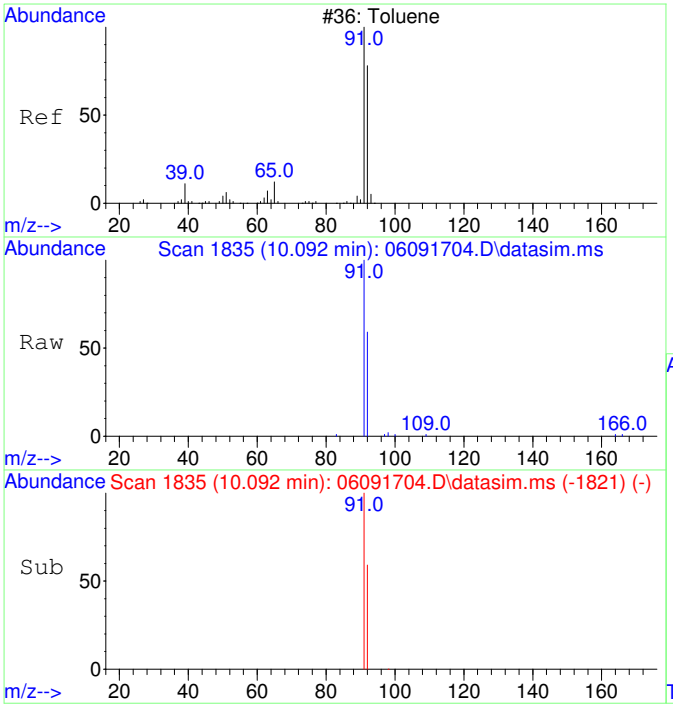


#12
Toluene-d8
Concen: 52.82 ug/L
RT: 9.998 min Scan# 1826
Delta R.T. 0.011 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 98 Resp: 7109

Ion	Ratio	Lower	Upper
98	100		
100	61.9	34.2	94.2

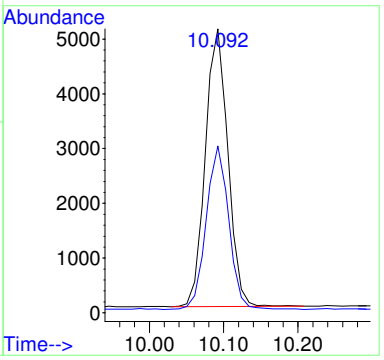


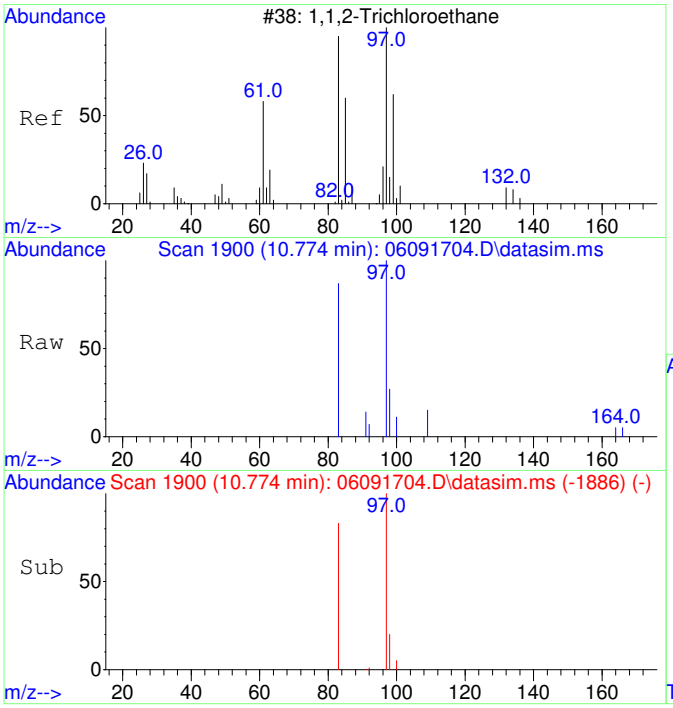


#13
Toluene
Concen: 59.81 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 10660

Ion	Ratio	Lower	Upper
91	100		
92	58.3	28.4	88.4

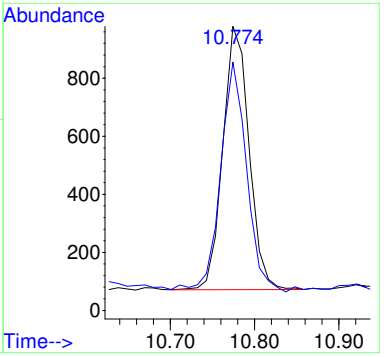


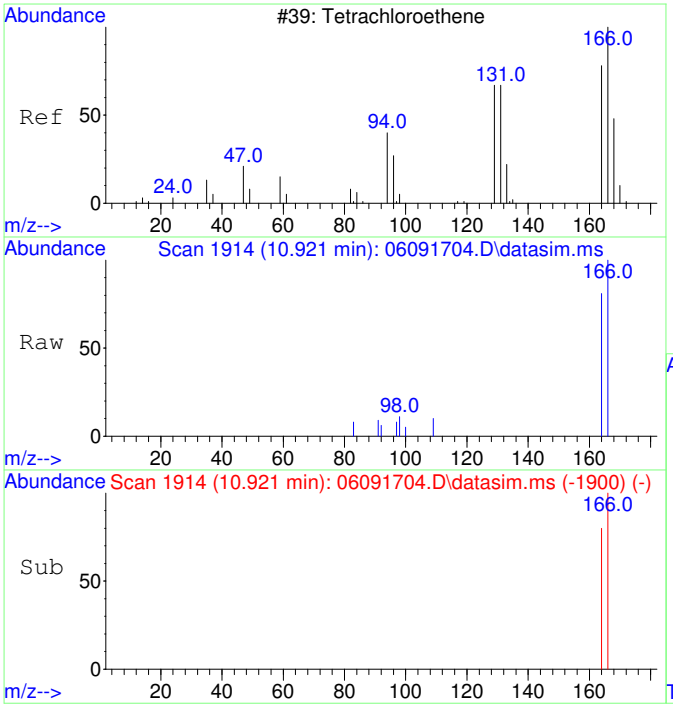


#14
1,1,2-Trichloroethane
Concen: 51.48 ug/L
RT: 10.774 min Scan# 1900
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 1962

Ion	Ratio	Lower	Upper
97	100		
83	83.3	54.5	114.5

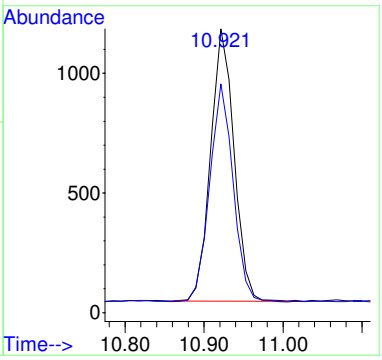


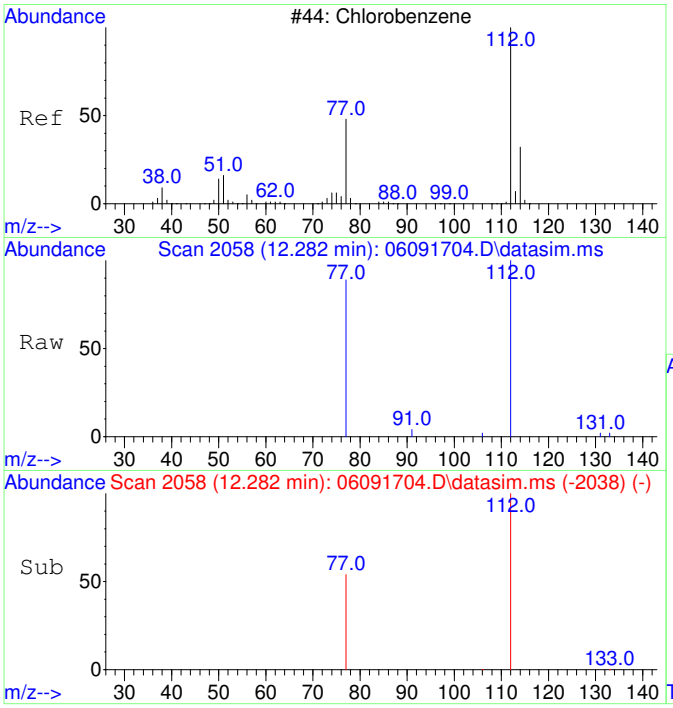


#15
Tetrachloroethene
Concen: 51.33 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:166 Resp: 2345

Ion	Ratio	Lower	Upper
166	100		
164	79.6	48.1	108.1

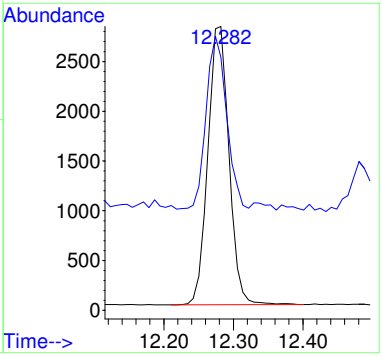


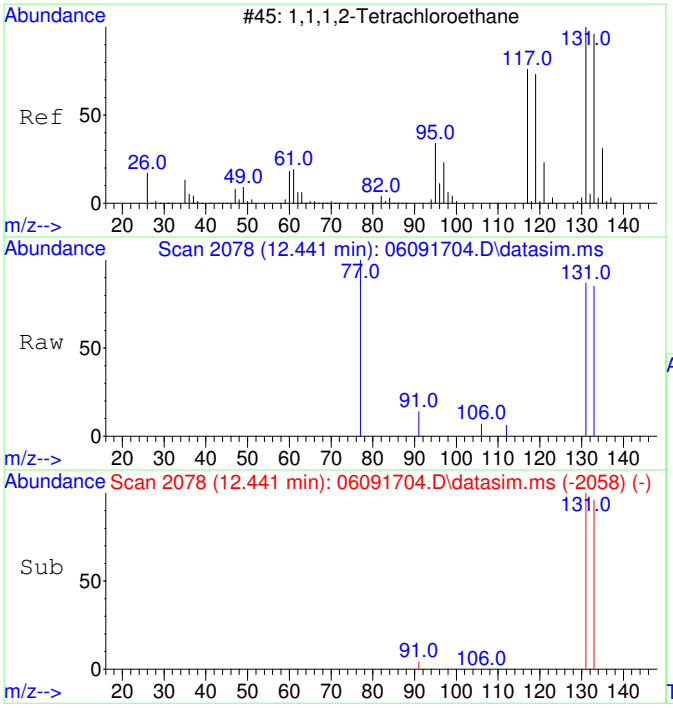


#16
Chlorobenzene
Concen: 52.05 ug/L
RT: 12.282 min Scan# 2058
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:112 Resp: 5893

Ion	Ratio	Lower	Upper
112	100		
77	59.5	28.9	88.9

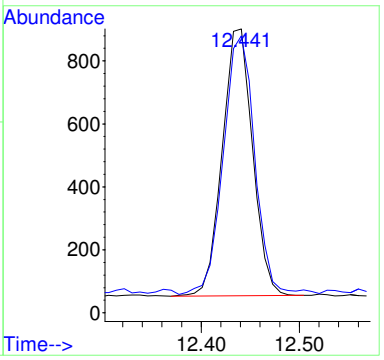


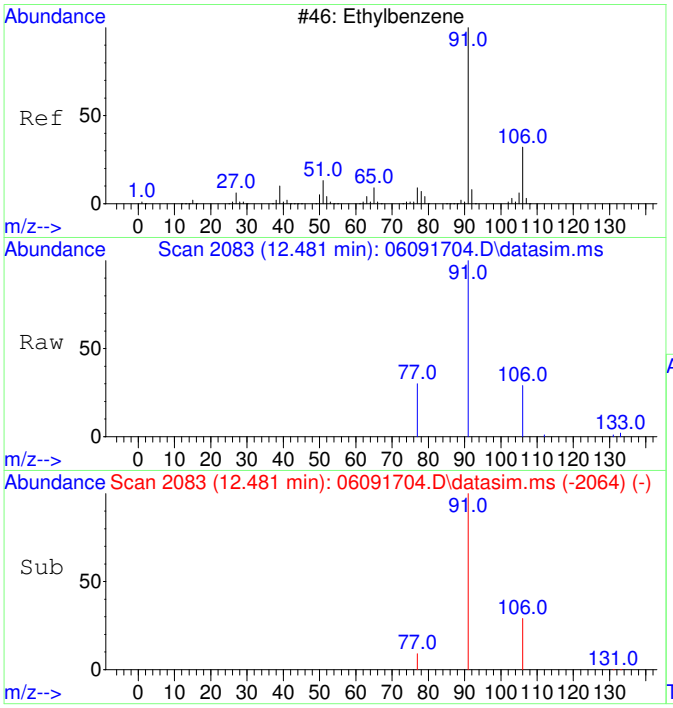


#17
1,1,1,2-Tetrachloroethane
Concen: 48.84 ug/L
RT: 12.441 min Scan# 2078
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:131 Resp: 1815

Ion	Ratio	Lower	Upper
131	100		
133	99.9	65.2	125.2

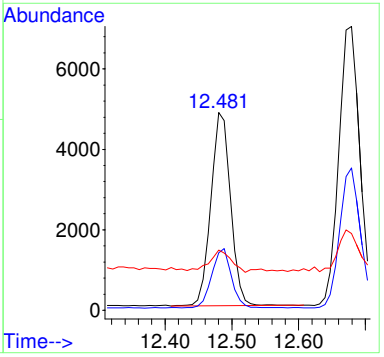


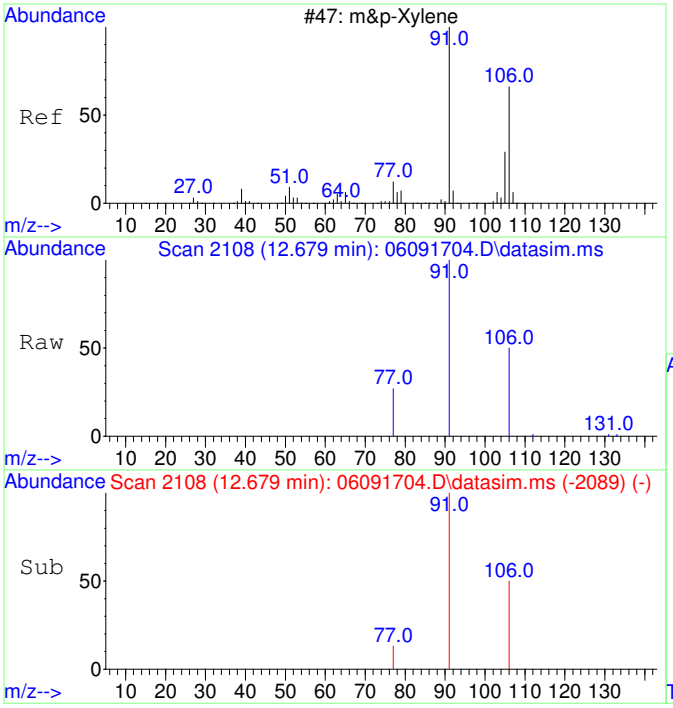


#18
Ethylbenzene
Concen: 51.25 ug/L
RT: 12.481 min Scan# 2083
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 9831

Ion	Ratio	Lower	Upper
91	100		
106	30.1	1.2	61.2
77	11.4	0.0	38.6

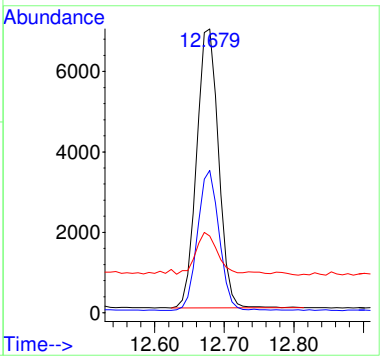


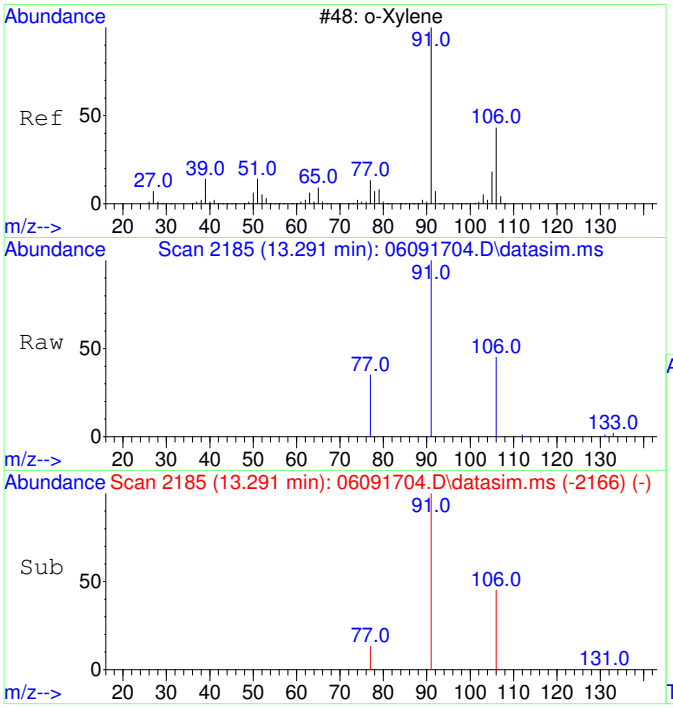


#19
m&p-Xylene
Concen: 100.95 ug/L
RT: 12.679 min Scan# 2108
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 15190

Ion	Ratio	Lower	Upper
91	100		
106	49.4	18.4	78.4
77	14.9	0.0	43.1

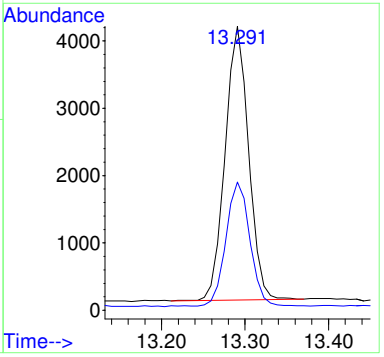


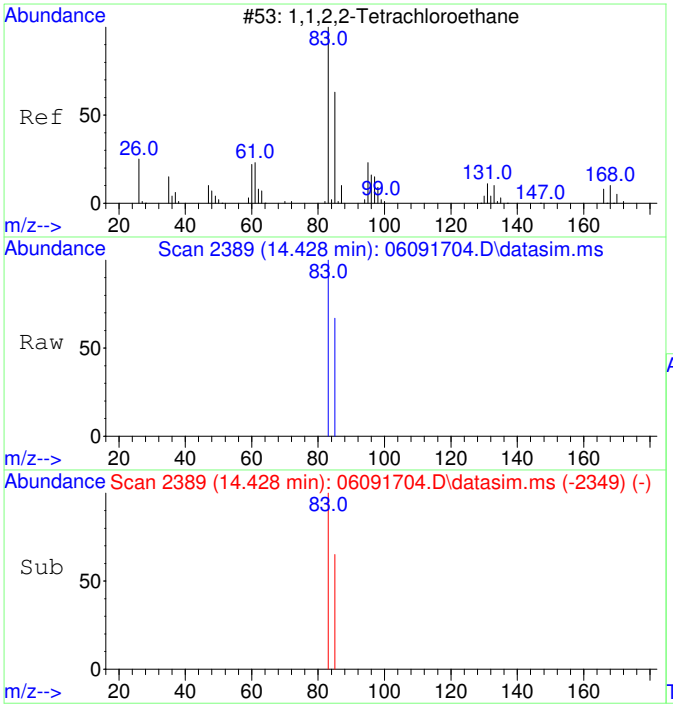


#20
o-Xylene
Concen: 51.07 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 7948

Ion	Ratio	Lower	Upper
91	100		
106	46.1	16.0	76.0

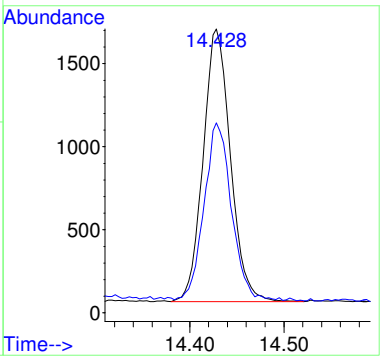


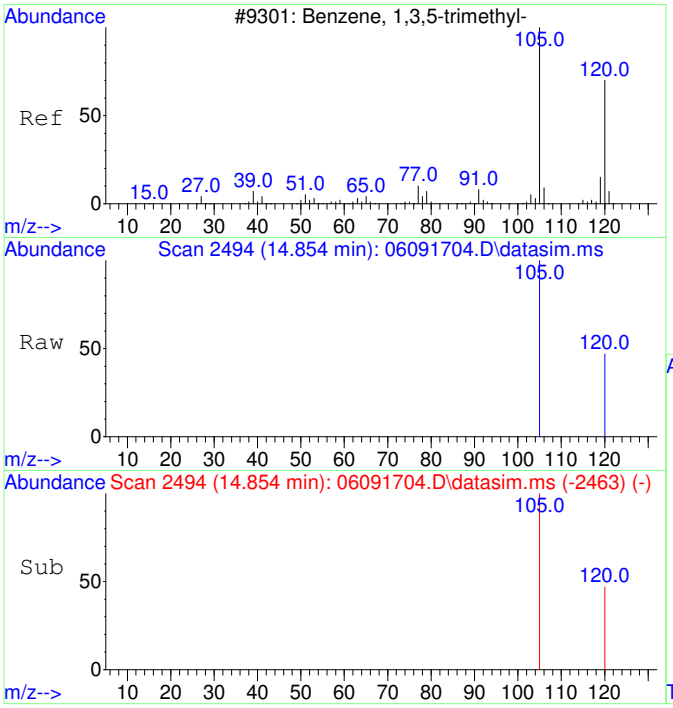


#21
1,1,2,2-Tetrachloroethane
Concen: 50.07 ug/L
RT: 14.428 min Scan# 2389
Delta R.T. -0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 83 Resp: 3314

Ion	Ratio	Lower	Upper
83	100		
85	64.8	34.1	94.1

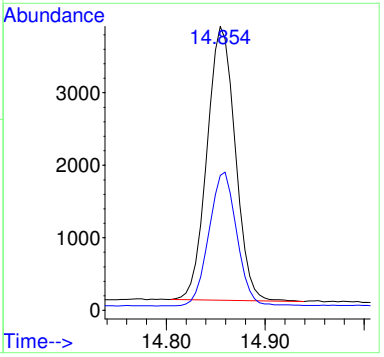


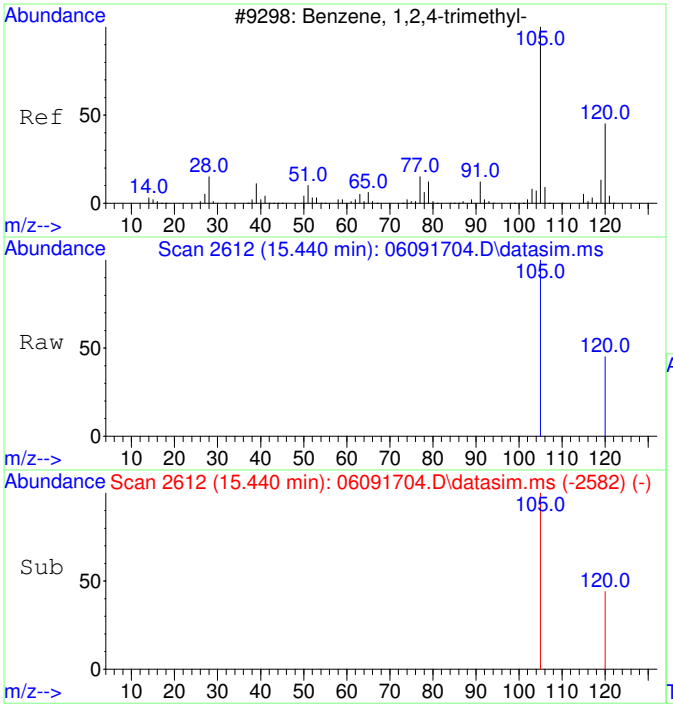


#22
1,3,5-Trimethylbenzene
Concen: 48.76 ug/L
RT: 14.854 min Scan# 2494
Delta R.T. 0.001 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:105 Resp: 7493

Ion	Ratio	Lower	Upper
105	100		
120	48.4	18.0	78.0

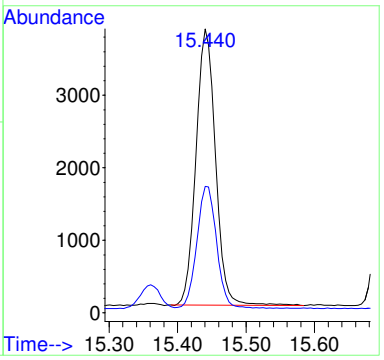


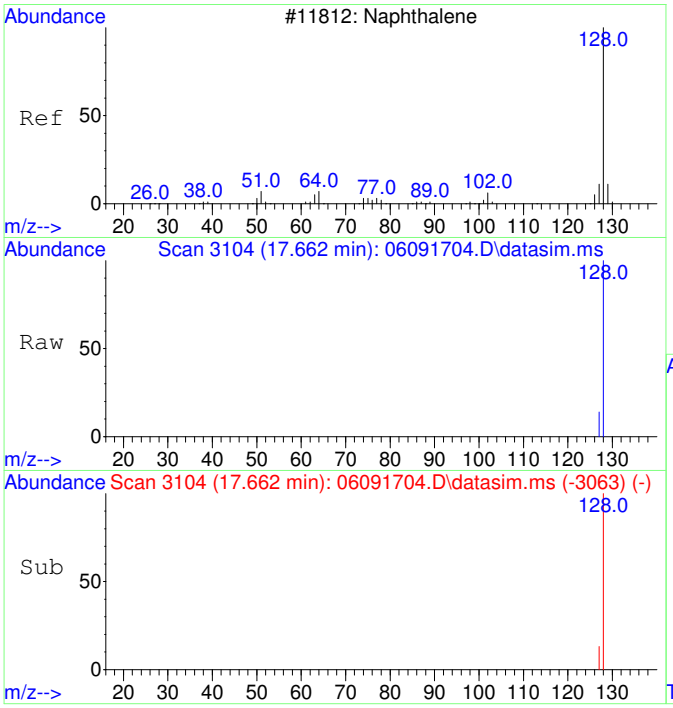


#23
1,2,4-Trimethylbenzene
Concen: 47.83 ug/L
RT: 15.440 min Scan# 2612
Delta R.T. 0.001 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:105 Resp: 7534

Ion	Ratio	Lower	Upper
105	100		
120	44.1	14.4	74.4

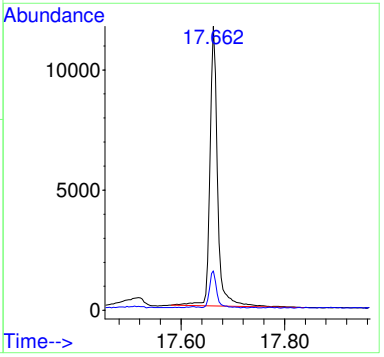


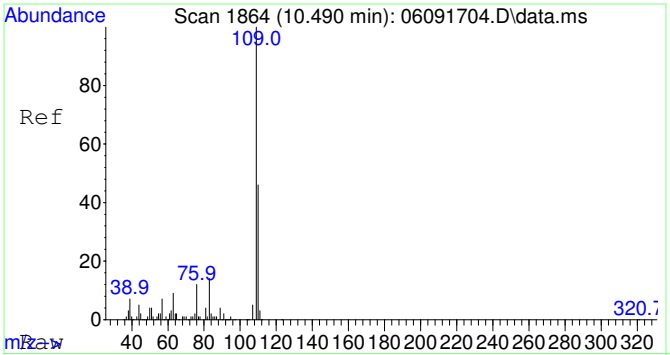


#24
Naphthalene
Concen: 50.71 ug/L
RT: 17.662 min Scan# 3104
Delta R.T. 0.001 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:128 Resp: 11830

Ion	Ratio	Lower	Upper
128	100		
127	12.5	0.0	42.7

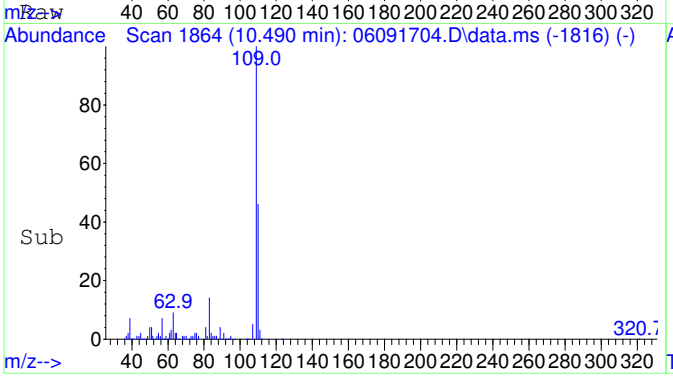


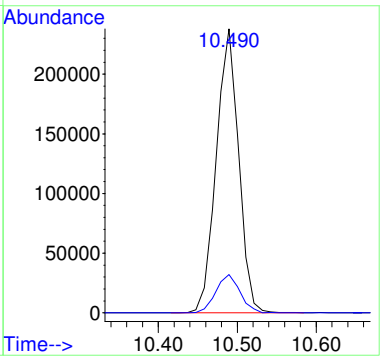


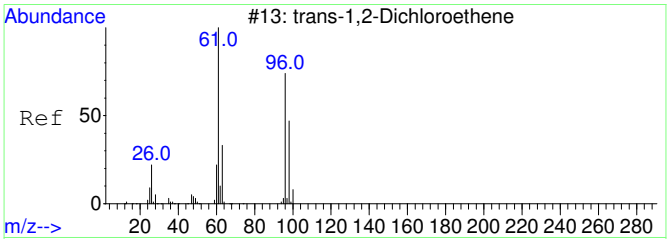
#25
2-Fluorotoluene SCAN
Concen: 4685.85 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:109 Resp: 466899

Ion	Ratio	Lower	Upper
109	100		
83	14.5	0.0	46.1



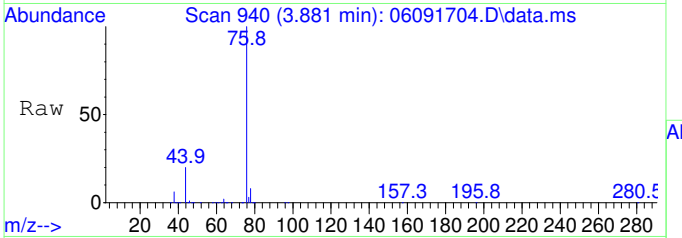


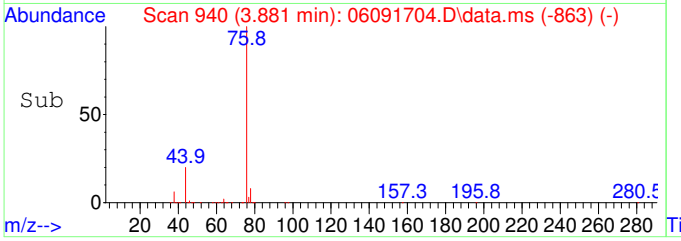


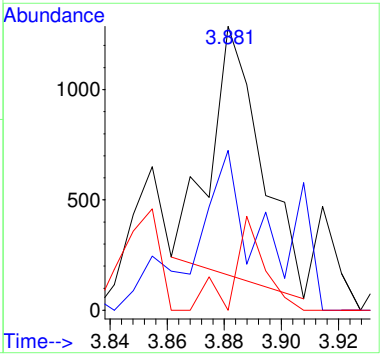
#27
trans-1,2-Dichloroethene SCAN
Concen: 30.78 ug/L
RT: 3.881 min Scan# 940
Delta R.T. 0.013 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

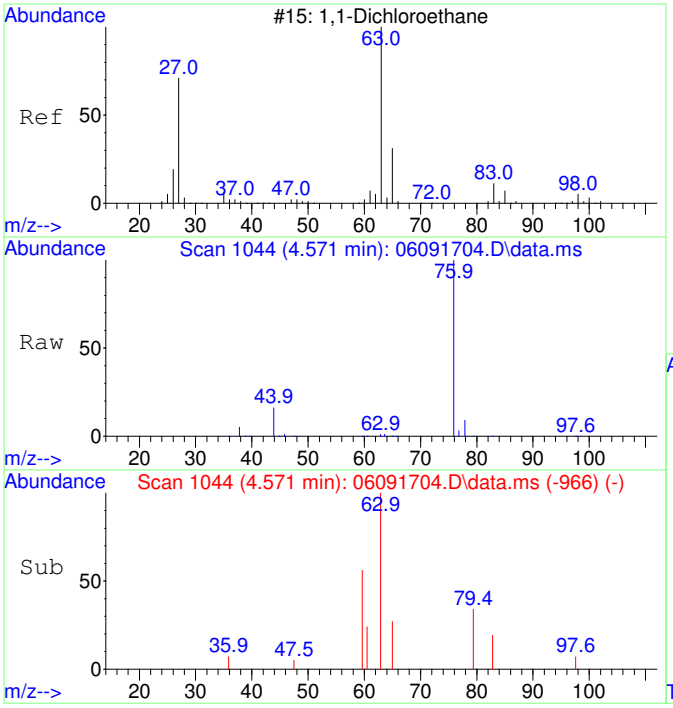
Tgt Ion: 61 Resp: 1377

Ion	Ratio	Lower	Upper
61	100		
96	93.8	26.1	86.1#
98	23.5	4.4	64.4





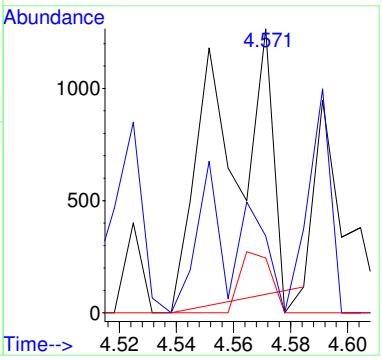


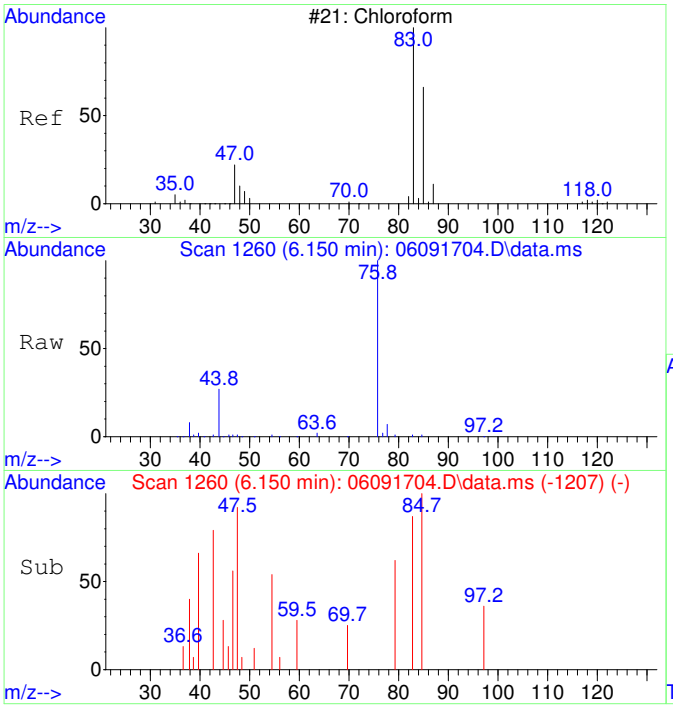


#28
1,1-Dichloroethane SCAN
Concen: 29.66 ug/L
RT: 4.571 min Scan# 1044
Delta R.T. 0.020 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 63 Resp: 1513

Ion	Ratio	Lower	Upper
63	100		
65	46.5	1.1	61.1
83	13.5	0.0	31.5

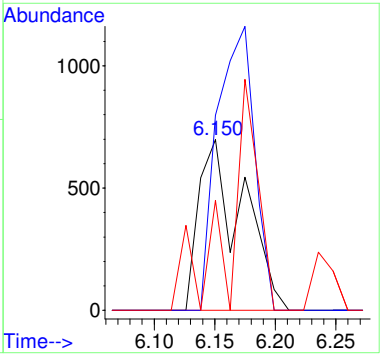


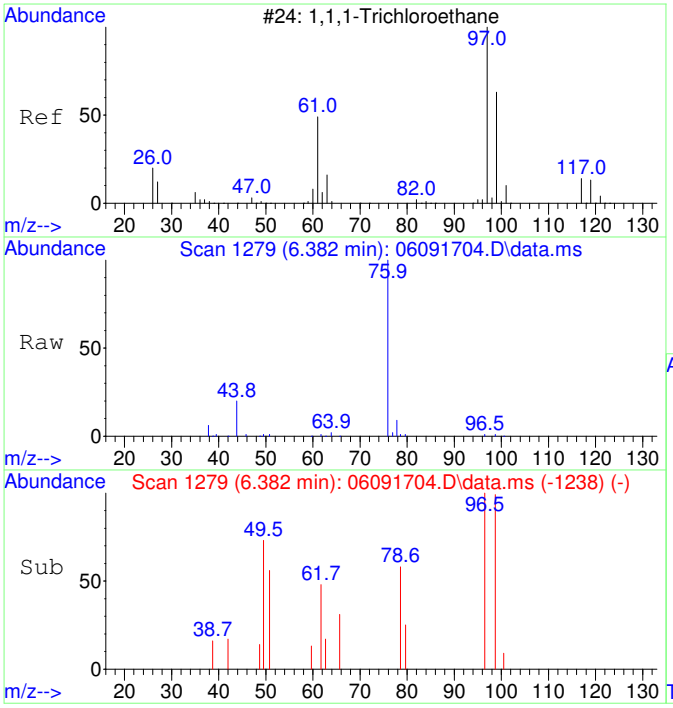


#30
Chloroform SCAN
Concen: 37.99 ug/L
RT: 6.150 min Scan# 1260
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 83 Resp: 1768

Ion	Ratio	Lower	Upper
83	100		
85	0.0	31.2	91.2#
47	0.0	3.2	63.2#

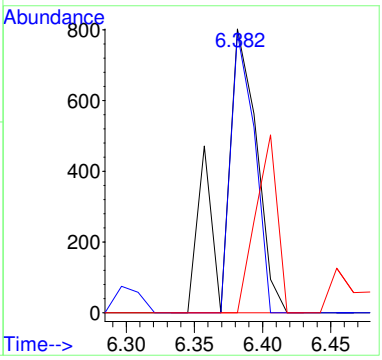


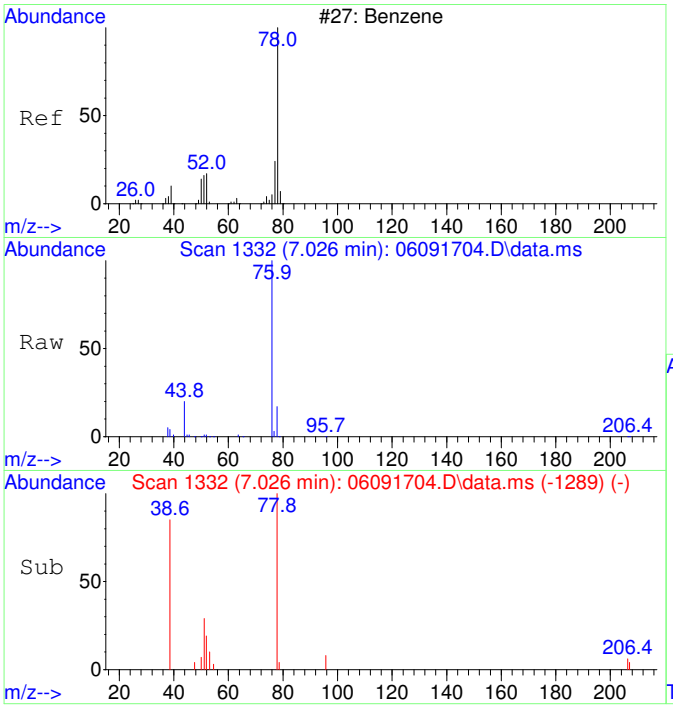


#31
1,1,1-Trichloroethane SCAN
Concen: 36.84 ug/L
RT: 6.382 min Scan# 1279
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 1411

Ion	Ratio	Lower	Upper
97	100		
99	68.1	38.7	98.7
61	0.0	27.8	87.8#

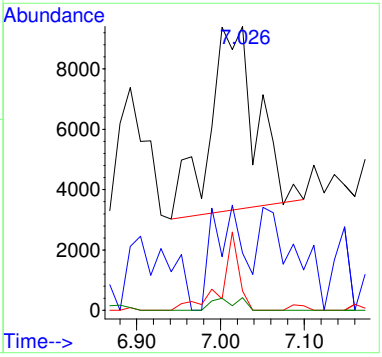


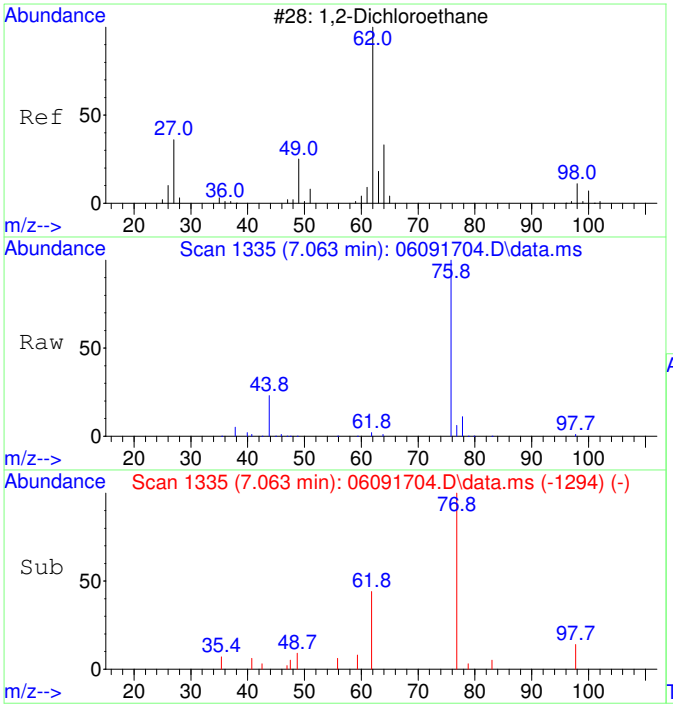


#33
Benzene SCAN
Concen: 225.89 ug/L
RT: 7.026 min Scan# 1332
Delta R.T. 0.024 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 78 Resp: 23827

Ion	Ratio	Lower	Upper
78	100		
77	26.8	0.0	55.2
51	15.4	0.0	52.4
52	4.0	0.0	53.3

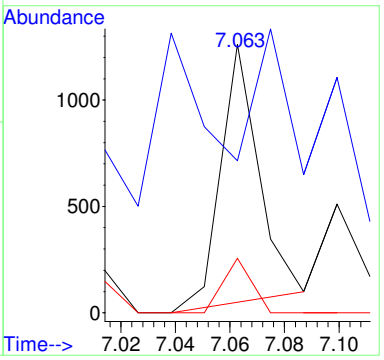


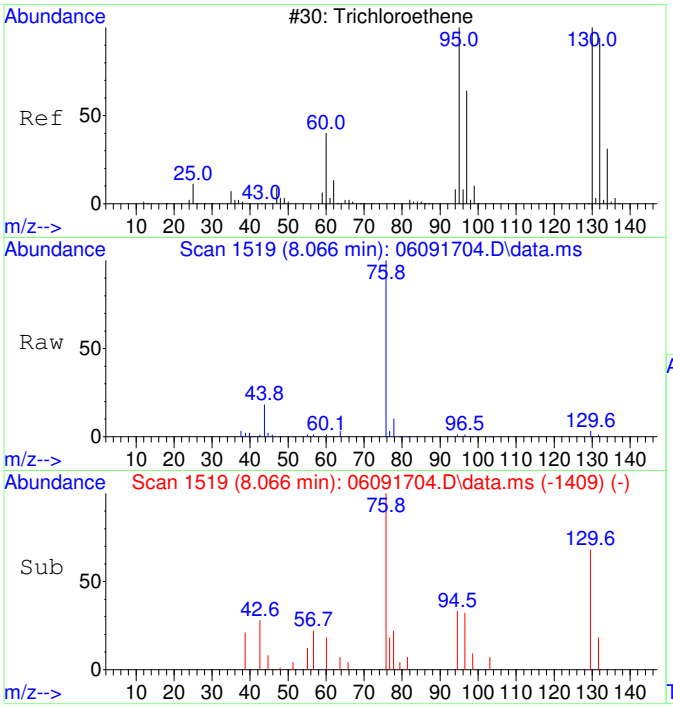


#34
1,2-Dichloroethane SCAN
Concen: 26.19 ug/L
RT: 7.063 min Scan# 1335
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 62 Resp: 1192

Ion	Ratio	Lower	Upper
62	100		
64	106.0	7.4	67.4#
49	15.7	0.0	54.8

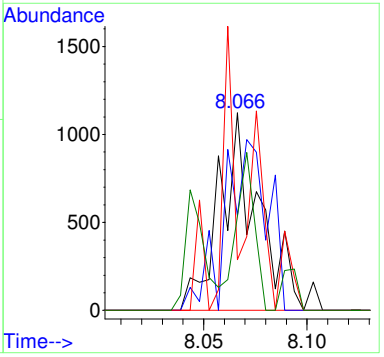


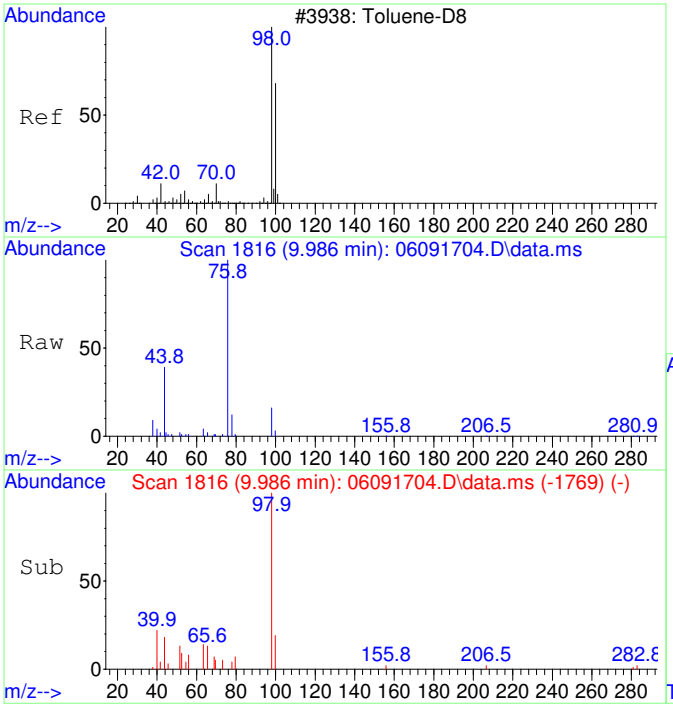


#35
Trichloroethene SCAN
Concen: 60.01 ug/L
RT: 8.066 min Scan# 1519
Delta R.T. 0.005 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:130 Resp: 1466

Ion	Ratio	Lower	Upper
130	100		
95	96.0	76.1	136.1
132	18.3	65.6	125.6#
97	31.9	41.8	101.8#

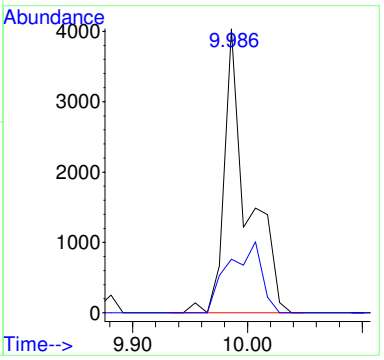


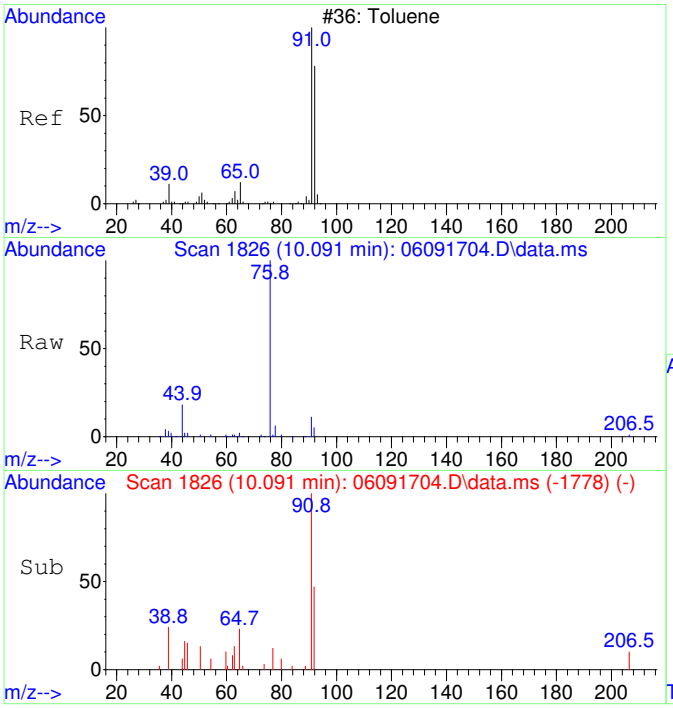


#36
Toluene-d8 SCAN
Concen: 69.64 ug/L
RT: 9.986 min Scan# 1816
Delta R.T. -0.010 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 98 Resp: 5727

Ion	Ratio	Lower	Upper
98	100		
100	0.0	36.2	96.2#

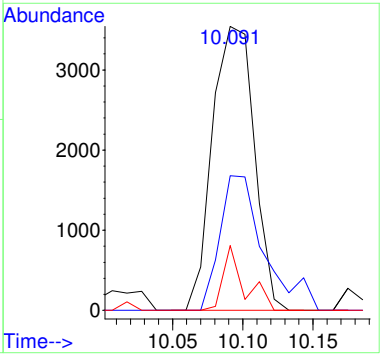


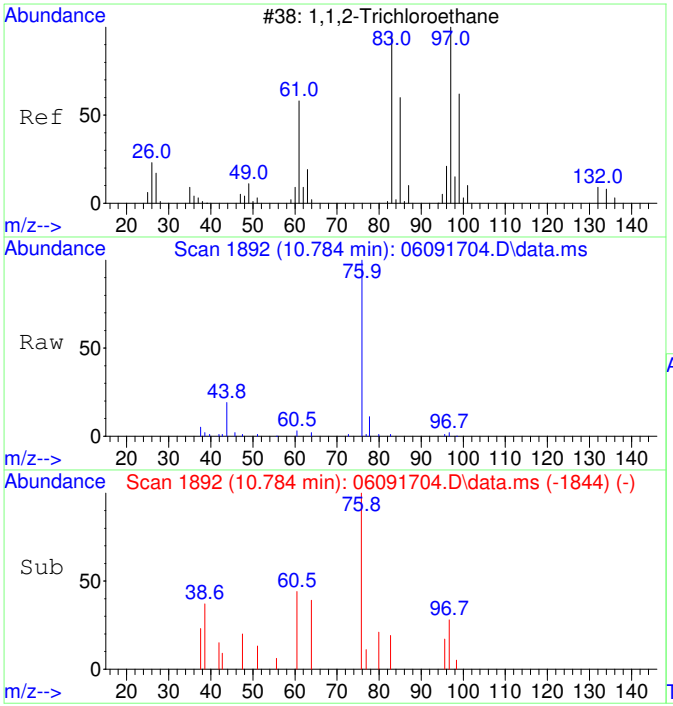


#37
Toluene SCAN
Concen: 67.30 ug/L
RT: 10.091 min Scan# 1826
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 7382

Ion	Ratio	Lower	Upper
91	100		
92	50.2	29.2	89.2
65	11.6	0.0	44.3

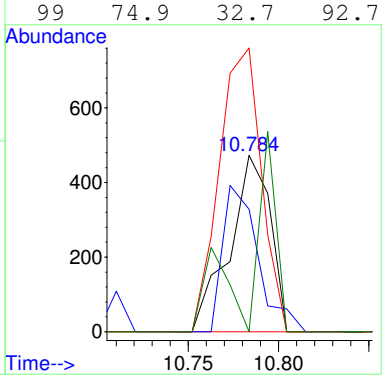


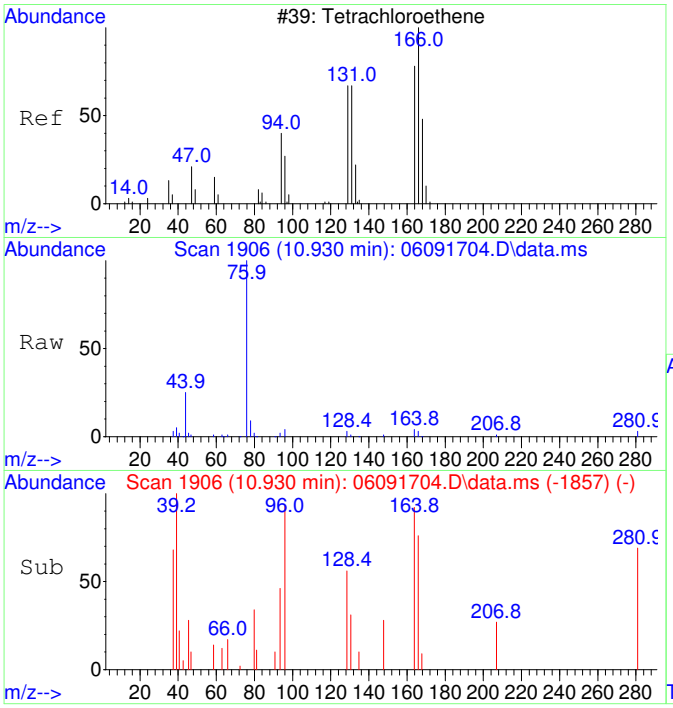


#38
1,1,2-Trichloroethane SCAN
Concen: 30.20 ug/L
RT: 10.784 min Scan# 1892
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 97 Resp: 746

Ion	Ratio	Lower	Upper
97	100		
83	0.0	57.8	117.8#
61	166.2	48.6	108.6#
99	74.9	32.7	92.7

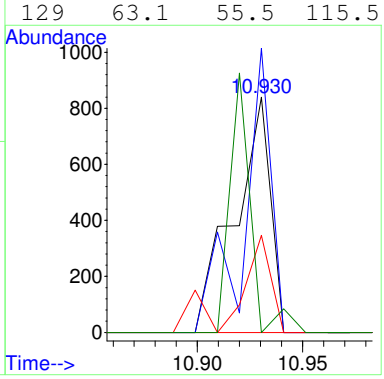


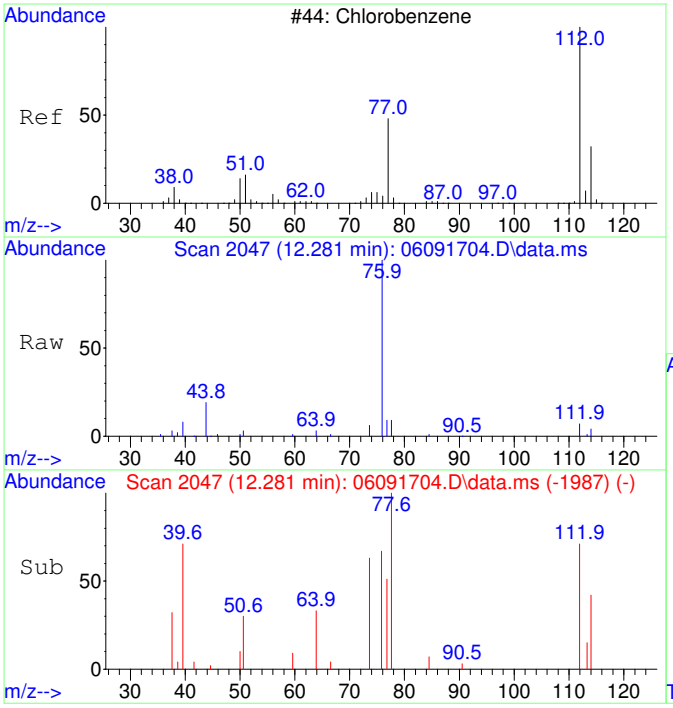


#39
Tetrachloroethene SCAN
Concen: 44.78 ug/L
RT: 10.930 min Scan# 1906
Delta R.T. 0.011 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:166 Resp: 1007

Ion	Ratio	Lower	Upper
166	100		
164	90.1	45.7	105.7
131	37.2	44.8	104.8#
129	63.1	55.5	115.5

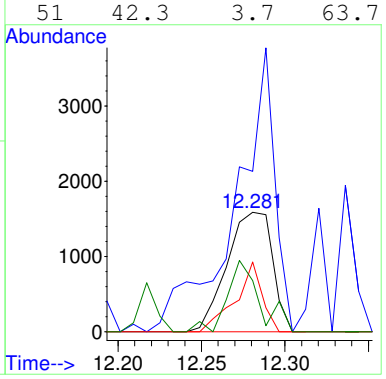


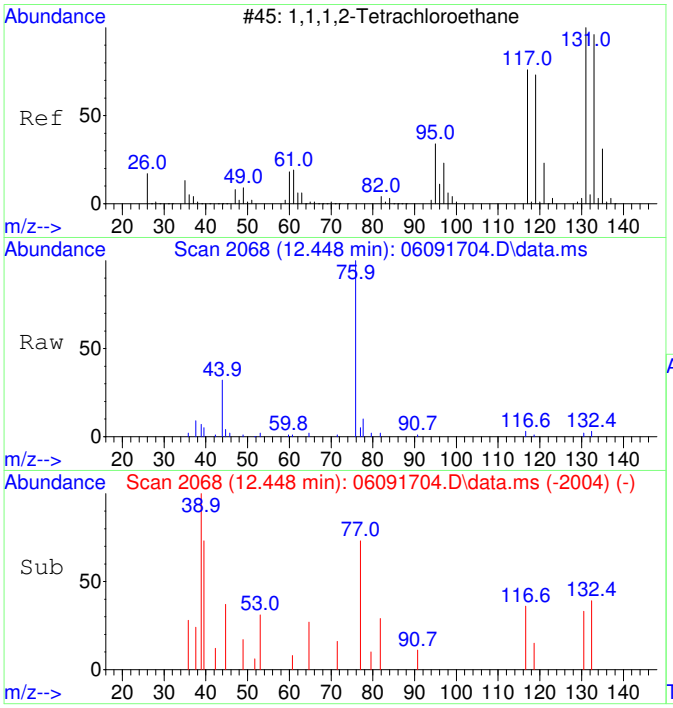


#40
Chlorobenzene SCAN
Concen: 44.80 ug/L
RT: 12.281 min Scan# 2047
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:112 Resp: 3018

Ion	Ratio	Lower	Upper
112	100		
77	205.1	35.1	95.1#
114	34.3	2.6	62.6
51	42.3	3.7	63.7

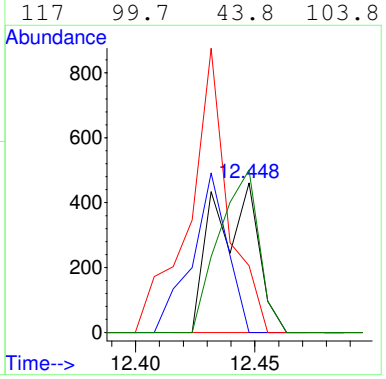


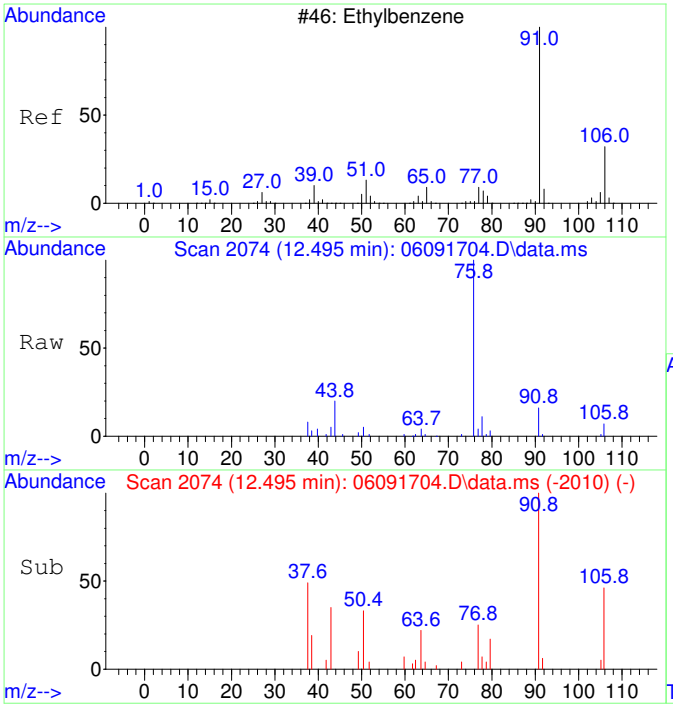


#41
1,1,1,2-Tetrachloroethane SCAN
Concen: 28.09 ug/L
RT: 12.448 min Scan# 2068
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:131 Resp: 589

Ion	Ratio	Lower	Upper
131	100		
133	85.9	63.5	123.5
119	168.3	38.0	98.0#
117	99.7	43.8	103.8

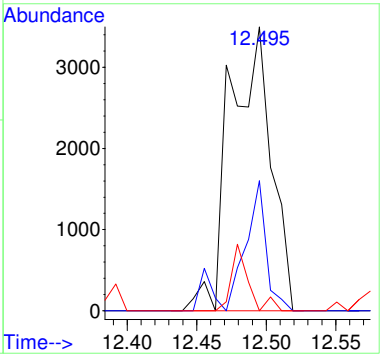


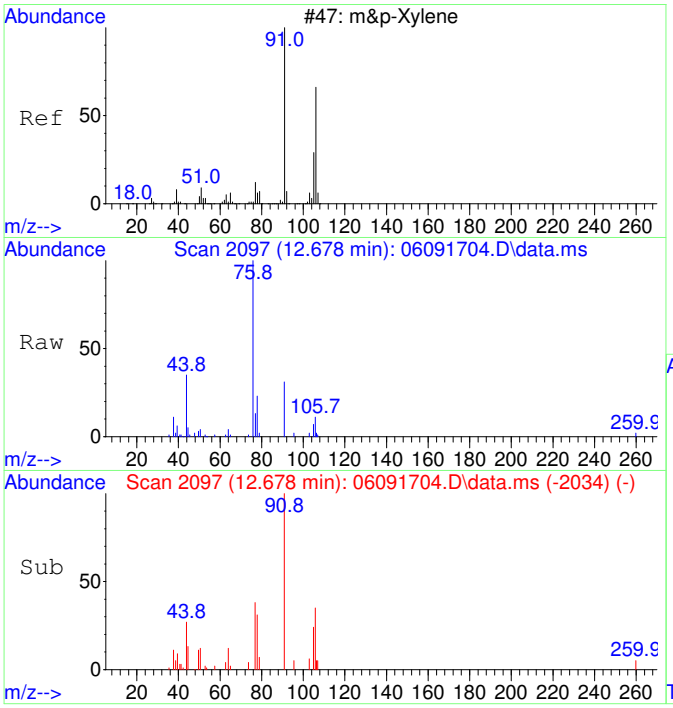


#42
Ethylbenzene SCAN
Concen: 58.77 ug/L
RT: 12.495 min Scan# 2074
Delta R.T. 0.008 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 7217

Ion	Ratio	Lower	Upper
91	100		
106	22.5	0.0	59.8
51	9.6	0.0	45.5

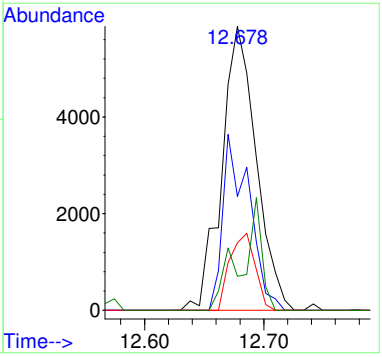


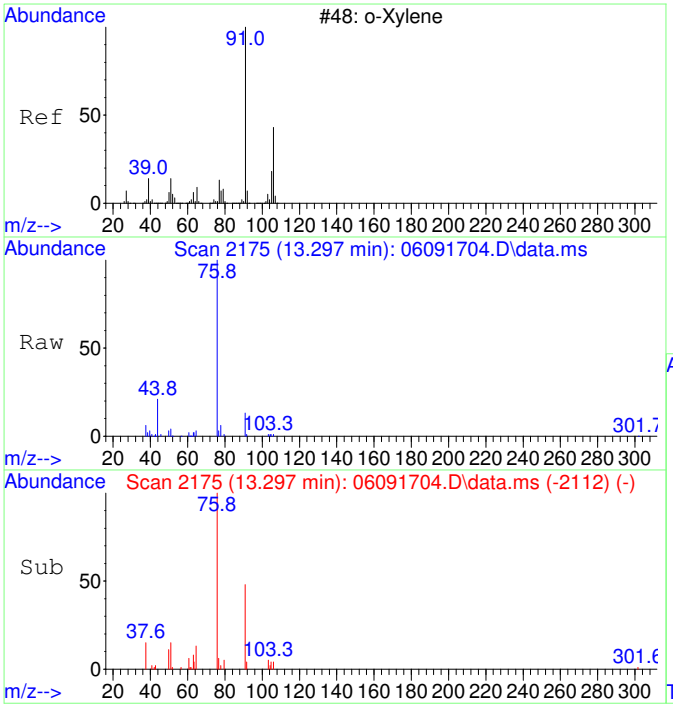


#43
m&p-Xylene SCAN
Concen: 61.87 ug/L
RT: 12.678 min Scan# 2097
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 11864

Ion	Ratio	Lower	Upper
91	100		
106	0.0	18.5	78.5#
105	19.8	0.0	51.3
51	23.9	0.0	45.7

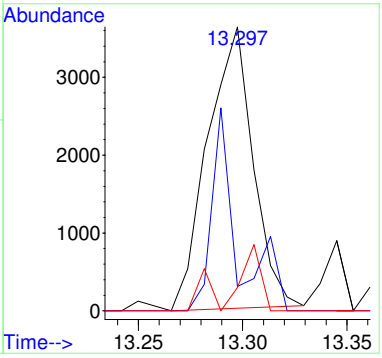


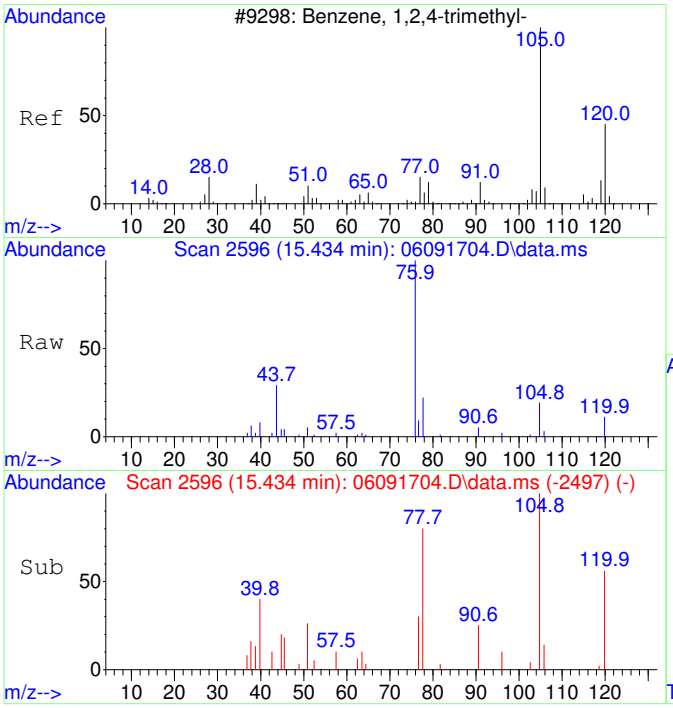


#44
o-Xylene SCAN
Concen: 55.75 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. 0.000 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion: 91 Resp: 5505

Ion	Ratio	Lower	Upper
91	100		
106	40.1	15.5	75.5
105	14.7	0.0	54.1

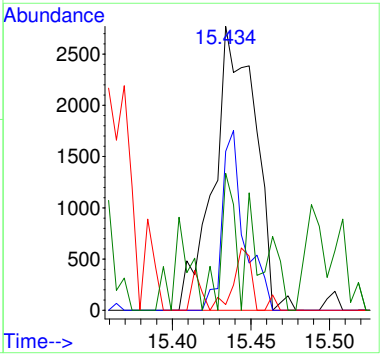


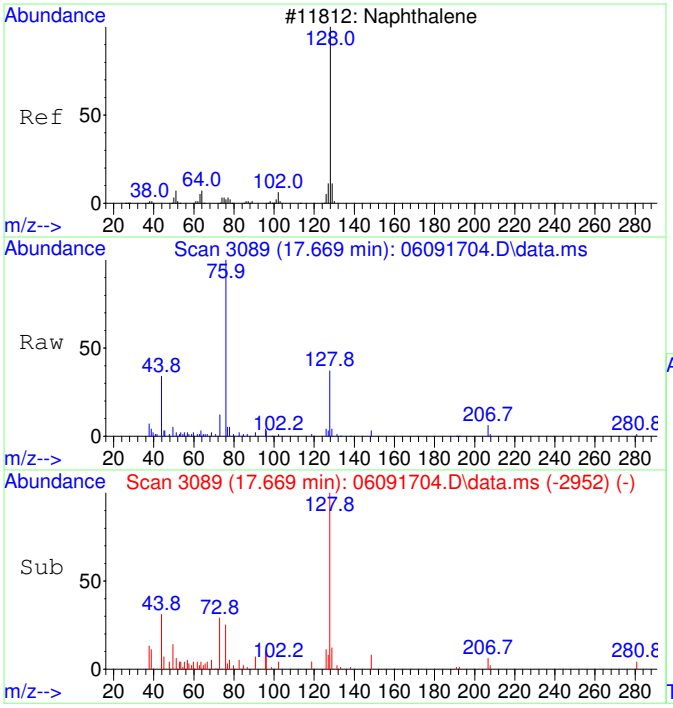


#47
1,2,4-Trimethylbenzene SCAN
Concen: 52.09 ug/L
RT: 15.434 min Scan# 2596
Delta R.T. -0.009 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:105 Resp: 5084

Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.9	72.9#
119	0.0	0.0	40.5
77	16.4	0.0	43.3

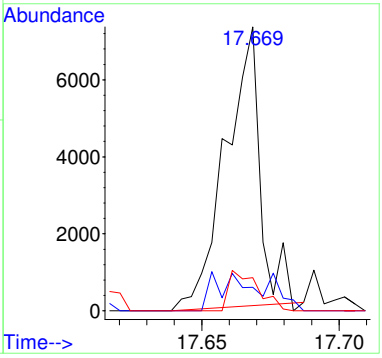




#48
Naphthalene SCAN
Concen: 47.01 ug/L
RT: 17.669 min Scan# 3089
Delta R.T. 0.009 min
Lab File: 06091704.D
Acq: 9 Jun 2017 11:38

Tgt Ion:128 Resp: 6328

Ion	Ratio	Lower	Upper
128	100		
127	19.4	0.0	43.9
129	12.3	0.0	41.0



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 17158A
Client: California Site Cleanup Section 3
Project: MEW OU3 May 2017 Investigation
Instrument ID: AG5975CV
Calibration: 1706007
Sequence: S17F037

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S17F037-CRL2	1,1-Dichloroethene	150	182	121	ug/L	60 - 140
	trans-1,2-Dichloroethene	150	168	112	ug/L	60 - 140
	cis-1,2-Dichloroethene	150	163	109	ug/L	60 - 140
	Chloroform	150	161	108	ug/L	60 - 140
	Benzene	150	180	120	ug/L	60 - 140
	Trichloroethene	150	155	103	ug/L	60 - 140
	Tetrachloroethene	150	152	101	ug/L	60 - 140
	Toluene-d8	150	152	101	ug/L	0 - 200

QLS REPORT

Instrument Name: AG5975C
Sample Name: S17F037-CRL2
Misc Info: 1717061 0.15 mg/L Benzene only
Date Acquired: 6/9/17 12:07
QLast Update: Tue Jun 06 15:10:51 2017
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
9)	Benzene	6.991	150.0	179.92	120%	60	140	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091705.D
Acq On : 9 Jun 2017 12:07
InstName : AG5975C
Operator : RH
Sample : S17F037-CRL2
Misc : 1717061 0.15 mg/L Benzene only
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 09 13:50:31 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

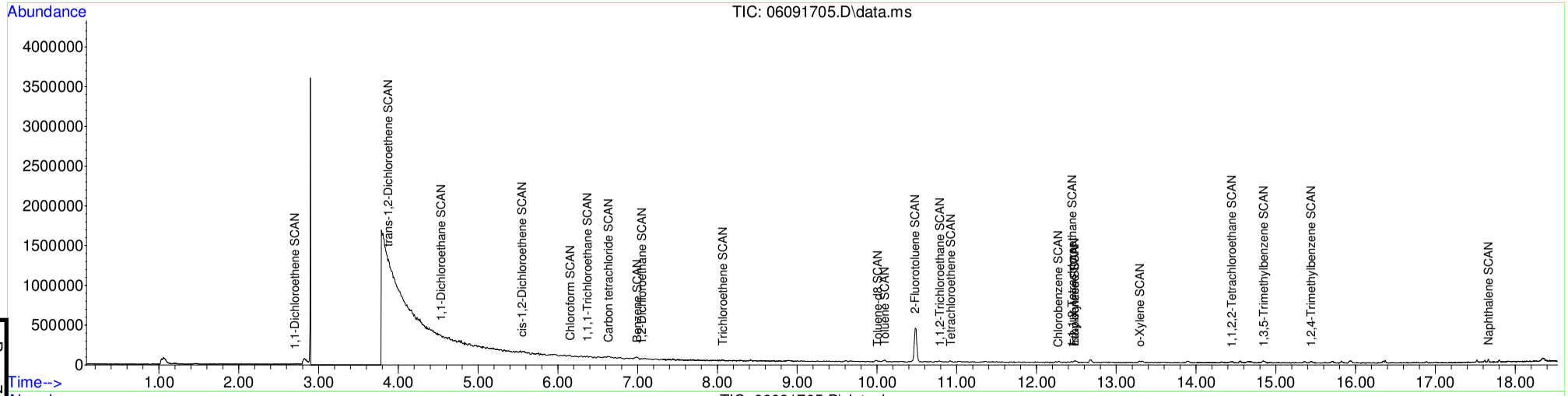
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.481	109	613718	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	15287	152.10 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery =	3.04%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.715	61	8789	181.58 ug/L	97
3] trans-1,2-Dichloroethene	3.849	61	8832	168.36 ug/L	90
4] 1,1-Dichloroethane	4.533	63	9443	167.00 ug/L	100
5] cis-1,2-Dichloroethene	5.555	61	8817	163.12 ug/L	100
6] Chloroform	6.140	83	8446	161.48 ug/L	100
7] 1,1,1-Trichloroethane	6.371	97	7465	155.40 ug/L	99
8] Carbon tetrachloride	6.626	117	6265	151.19 ug/L	97
9] Benzene	6.979	78	21915	179.92 ug/L	96
10] 1,2-Dichloroethane	7.052	62	7193	159.40 ug/L	95
11] Trichloroethene	8.058	130	4847	154.73 ug/L	99
13] Toluene	10.082	91	20663	155.25 ug/L	99
14] 1,1,2-Trichloroethane	10.774	97	4280	150.38 ug/L	98
15] Tetrachloroethene	10.921	166	5190	152.14 ug/L	99
16] Chlorobenzene	12.274	112	12950	153.17 ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.433	131	3983	143.53 ug/L	98
18] Ethylbenzene	12.481	91	21207	148.05 ug/L	99
19] m&p-Xylene	12.671	91	33050	294.12 ug/L	100
20] o-Xylene	13.291	91	17195	147.96 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	7088	143.41 ug/L	99
22] 1,3,5-Trimethylbenzene	14.855	105	16289	141.96 ug/L	99
23] 1,2,4-Trimethylbenzene	15.440	105	16546	140.66 ug/L	100
24] Naphthalene	17.662	128	26645	152.95 ug/L	99
25) 2-Fluorotoluene SCAN	10.479	109	347691	4672.70 ug/L	99
26) 1,1-Dichloroethene SCAN	2.702	61	866	27.66 ug/L	80
27) trans-1,2-Dichloroethe...	3.868	61	1982	59.32 ug/L #	30
28) 1,1-Dichloroethane SCAN	4.532	63	6300	165.38 ug/L #	46
29) cis-1,2-Dichloroethene...	5.553	61	4690	121.68 ug/L #	50
30) Chloroform SCAN	6.150	83	5720	164.58 ug/L	83
31) 1,1,1-Trichloroethane ...	6.369	97	5105	178.48 ug/L	89
32) Carbon tetrachloride SCAN	6.637	117	5384	204.48 ug/L	84
33) Benzene SCAN	6.990	78	23541	298.85 ug/L	96
34) 1,2-Dichloroethane SCAN	7.051	62	6101	179.50 ug/L #	46
35) Trichloroethene SCAN	8.066	130	747	40.95 ug/L #	67
36) Toluene-d8 SCAN	10.007	98	8265	134.59 ug/L	95
37) Toluene SCAN	10.091	91	15238	186.04 ug/L	95
38) 1,1,2-Trichloroethane ...	10.784	97	1731	93.84 ug/L #	24
39) Tetrachloroethene SCAN	10.920	166	1545	92.01 ug/L #	48
40) Chlorobenzene SCAN	12.273	112	7248	144.06 ug/L	92
41) 1,1,1,2-Tetrachloroeth...	12.440	131	1179	75.29 ug/L #	76
42) Ethylbenzene SCAN	12.479	91	14338	156.34 ug/L	85
43) m&p-Xylene SCAN	12.479	91	14338	100.13 ug/L	80
44) o-Xylene SCAN	13.290	91	11411	154.75 ug/L	86
45) 1,1,2,2-Tetrachloroeth...	14.438	83	5108	153.14 ug/L	72
46) 1,3,5-Trimethylbenzene...	14.848	105	8792	125.70 ug/L	75
47) 1,2,4-Trimethylbenzene...	15.439	105	9250	126.91 ug/L	91
48) Naphthalene SCAN	17.665	128	13064	129.96 ug/L	91

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060917\
Data File : 06091705.D
Acq On : 9 Jun 2017 12:07
InstName : AG5975C
Operator : RH
Sample : S17F037-CRL2
Misc : 1717061 0.15 mg/L Benzene only
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 09 13:50:31 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060917_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration



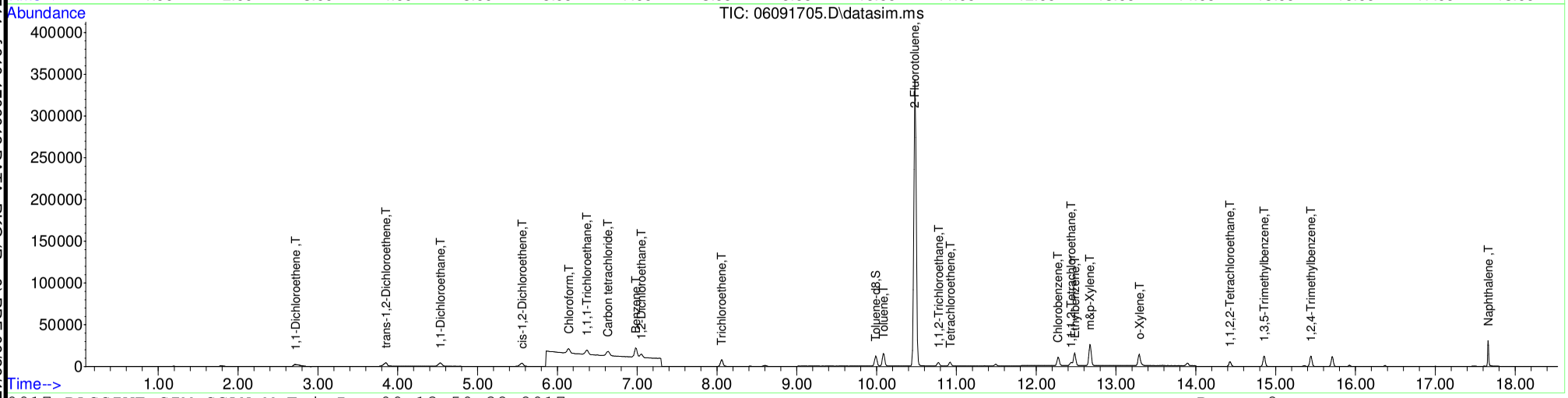


Table of Contents

CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 17158A
Client: California Site Cleanup Section 3
Project: MEW OU3 May 2017 Investigation
Instrument ID: AG5975CV
Calibration: 1706007
Sequence: S17F044

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S17F044-CRL1	1,1-Dichloroethene	50.0	56.2	112	ug/L	60 - 140
	trans-1,2-Dichloroethene	50.0	57.9	116	ug/L	60 - 140
	cis-1,2-Dichloroethene	50.0	54.5	109	ug/L	60 - 140
	Chloroform	50.0	58.7	117	ug/L	60 - 140
	Benzene	**50.0**	**78.5**	**157**	**ug/L**	**60 - 140**
	Trichloroethene	50.0	52.3	105	ug/L	60 - 140
	Tetrachloroethene	50.0	51.9	104	ug/L	60 - 140
	Toluene-d8	50.0	51.8	104	ug/L	0 - 200

QLS REPORT

Instrument Name: AG5975C
Sample Name: S17F044-CRL1
Misc Info: 1717062 0.05 mg/L
Date Acquired: 6/12/17 12:43
QLast Update: Tue Jun 06 15:10:51 2017
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.480	5000.0	5000.00	100%	60	140	pass
2)	1,1-Dichloroethene	2.711	50.0	56.24	112%	60	140	pass
3)	trans-1,2-Dichloroethene	3.869	50.0	57.88	116%	60	140	pass
4)	1,1-Dichloroethane	4.553	50.0	56.45	113%	60	140	pass
5)	cis-1,2-Dichloroethene	5.568	50.0	54.51	109%	60	140	pass
6)	Chloroform	6.152	50.0	58.74	117%	60	140	pass
7)	1,1,1-Trichloroethane	6.383	50.0	53.44	107%	60	140	pass
8)	Carbon tetrachloride	6.638	50.0	52.08	104%	60	140	pass
10)	1,2-Dichloroethane	7.064	50.0	53.99	108%	60	140	pass
11)	Trichloroethene	8.063	50.0	52.32	105%	60	140	pass
12)	Toluene-d8	9.987	50.0	51.83	104%	60	140	pass
13)	Toluene	10.092	50.0	59.18	118%	60	140	pass
14)	1,1,2-Trichloroethane	10.774	50.0	52.25	104%	60	140	pass
15)	Tetrachloroethene	10.921	50.0	51.91	104%	60	140	pass
16)	Chlorobenzene	12.274	50.0	51.73	103%	60	140	pass
17)	1,1,1,2-Tetrachloroethane	12.433	50.0	48.68	97%	60	140	pass
18)	Ethylbenzene	12.480	50.0	50.64	101%	60	140	pass
19)	m&p-Xylene	12.679	100.0	99.80	100%	60	140	pass
20)	o-Xylene	13.291	50.0	50.70	101%	60	140	pass
21)	1,1,2,2-Tetrachloroethane	14.429	50.0	48.86	98%	60	140	pass
22)	1,3,5-Trimethylbenzene	14.853	50.0	48.00	96%	60	140	pass
23)	1,2,4-Trimethylbenzene	15.439	50.0	48.23	96%	60	140	pass
24)	Naphthalene	17.661	50.0	53.22	106%	60	140	pass

Quantitation Report (Not Reviewed)

Before Manual Integration

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121704.D
Acq On : 12 Jun 2017 12:43
InstName : AG5975C
Operator : RH
Sample : S17F044-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 12 13:02:30 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

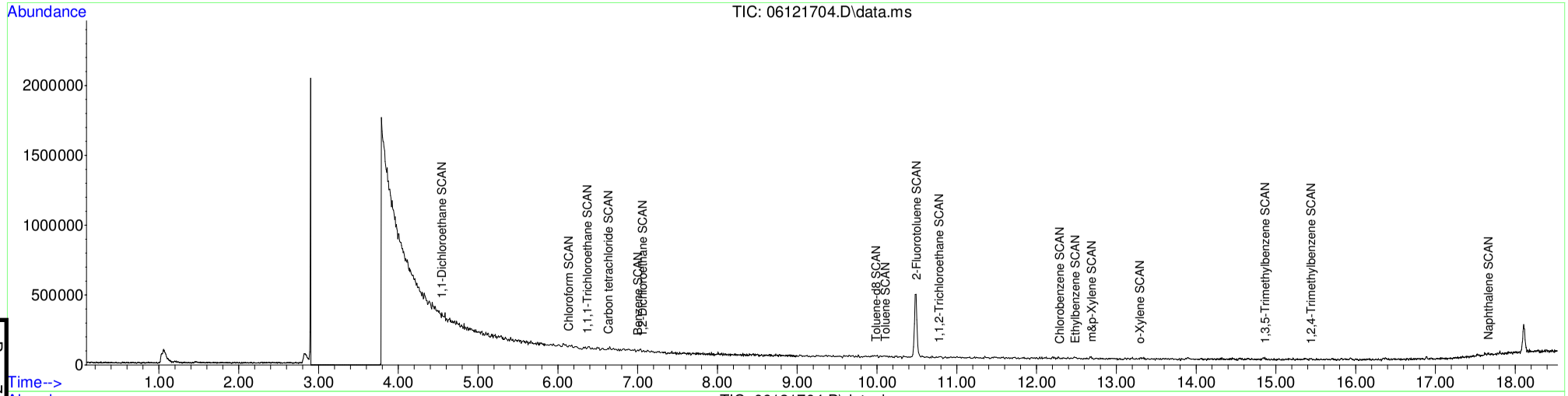
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.480	109	661990	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	9.987	98	5619	51.83	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 1.04%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	2.714	61	3392	64.97	ug/L	83
3] trans-1,2-Dichloroethene	3.849	61	3275	57.88	ug/L	88
4] 1,1-Dichloroethane	4.539	63	3443	56.45	ug/L	99
5] cis-1,2-Dichloroethene	5.554	61	3178	54.51	ug/L	99
6] Chloroform	6.139	83	3314	58.74	ug/L	99
7] 1,1,1-Trichloroethane	6.370	97	2769	53.44	ug/L	98
8] Carbon tetrachloride	6.626	117	2328	52.08	ug/L	98
9] Benzene	6.979	78	10319	78.54	ug/L	93
10] 1,2-Dichloroethane	7.052	62	2628	53.99	ug/L	97
11] Trichloroethene	8.058	130	1768	52.32	ug/L	99
13] Toluene	10.092	91	8497	59.18	ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	1604	52.25	ug/L	97
15] Tetrachloroethene	10.921	166	1910	51.91	ug/L	99
16] Chlorobenzene	12.274	112	4717	51.73	ug/L	94
17] 1,1,1,2-Tetrachloroethane	12.433	131	1457	48.68	ug/L	98
18] Ethylbenzene	12.480	91	7825	50.64	ug/L	96
19] m&p-Xylene	12.679	91	12097	99.80	ug/L	97
20] o-Xylene	13.291	91	6356	50.70	ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.429	83	2605	48.86	ug/L	97
22] 1,3,5-Trimethylbenzene	14.853	105	5941	48.00	ug/L	99
23] 1,2,4-Trimethylbenzene	15.439	105	6120	48.23	ug/L	99
24] Naphthalene	17.661	128	10001	53.22	ug/L	99
25) 2-Fluorotoluene SCAN	10.490	109	381310	4750.83	ug/L	95
28) 1,1-Dichloroethane SCAN	4.545	63	1455	35.41	ug/L #	25
30) Chloroform SCAN	6.138	83	3340	89.09	ug/L	90
31) 1,1,1-Trichloroethane ...	6.369	97	1570	50.89	ug/L #	18
32) Carbon tetrachloride SCAN	6.625	117	1665	58.62	ug/L #	39
33) Benzene SCAN	7.002	78	15596	183.55	ug/L #	67
34) 1,2-Dichloroethane SCAN	7.063	62	1715	46.78	ug/L #	43
36) Toluene-d8 SCAN	9.986	98	4833	72.96	ug/L	85
37) Toluene SCAN	10.101	91	8452	95.67	ug/L	73
38) 1,1,2-Trichloroethane ...	10.773	97	1657	83.28	ug/L #	56
40) Chlorobenzene SCAN	12.288	112	3571	65.80	ug/L #	51
42) Ethylbenzene SCAN	12.487	91	5238	52.95	ug/L	83
43) m&p-Xylene SCAN	12.686	91	8225	53.25	ug/L	89
44) o-Xylene SCAN	13.297	91	4674	58.77	ug/L	87
46) 1,3,5-Trimethylbenzene...	14.857	105	3590	47.58	ug/L	81
47) 1,2,4-Trimethylbenzene...	15.443	105	3545	45.09	ug/L #	58
48) Naphthalene SCAN	17.660	128	6622	61.07	ug/L	81

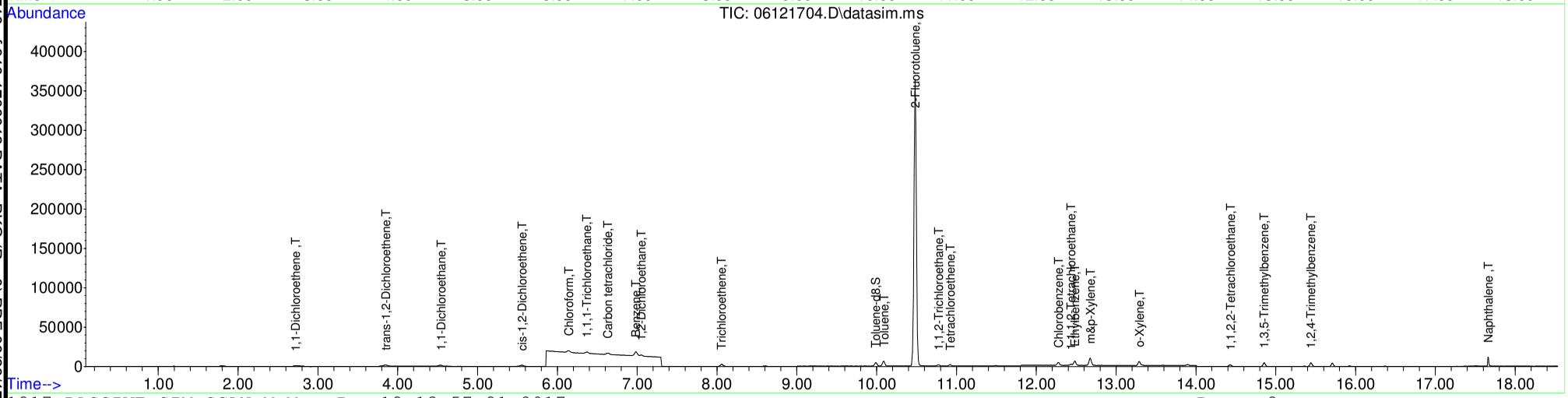
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121704.D
Acq On : 12 Jun 2017 12:43
InstName : AG5975C
Operator : RH
Sample : S17F044-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 12 13:02:30 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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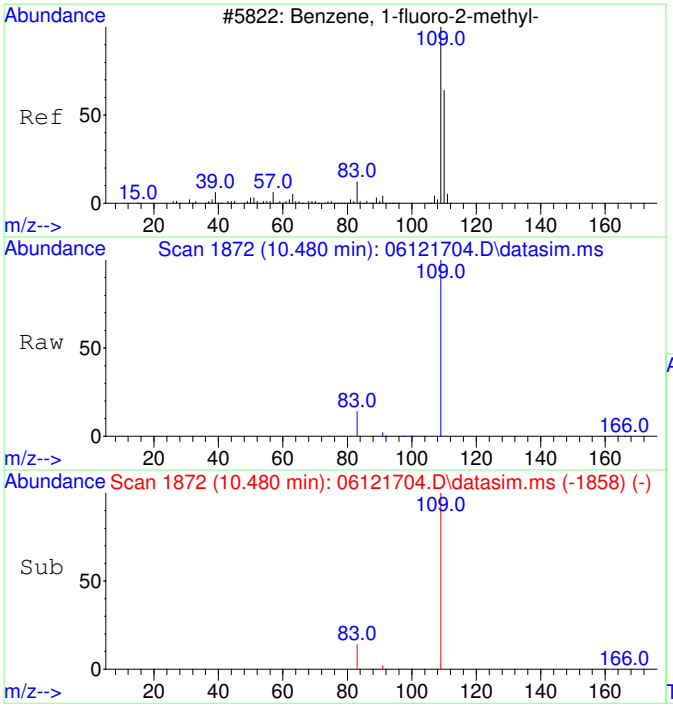
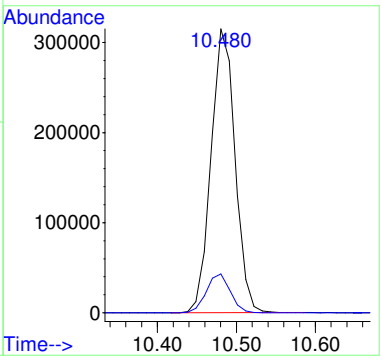
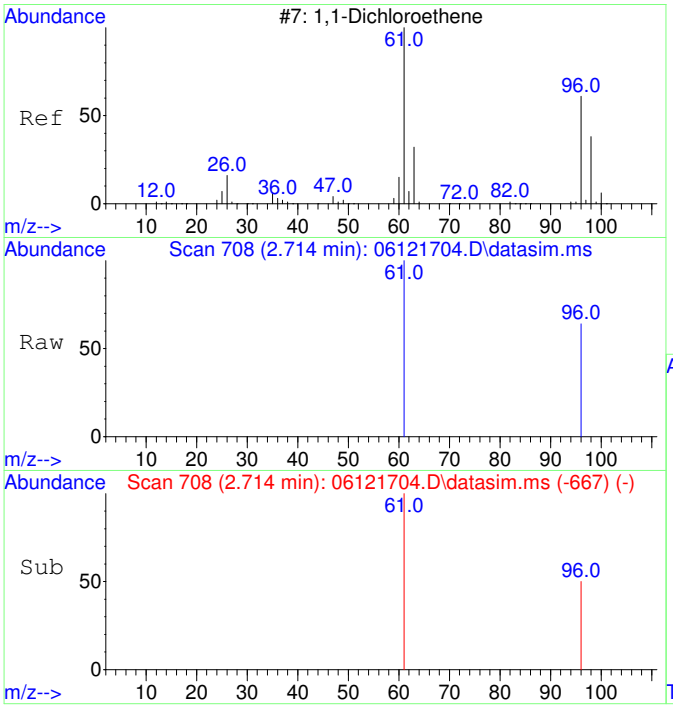


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:109 Resp: 661990

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.4

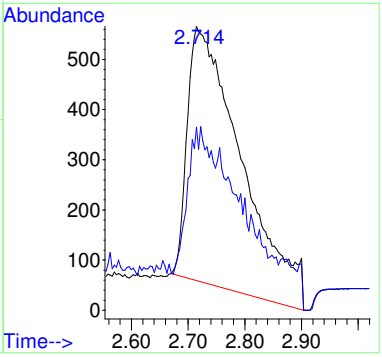




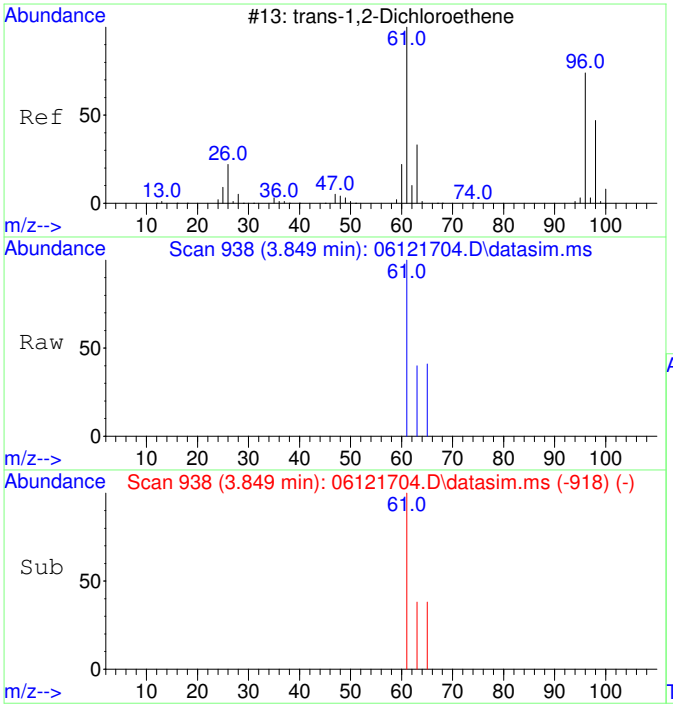
#2
1,1-Dichloroethene
Concen: 64.97 ug/L
RT: 2.714 min Scan# 708
Delta R.T. 0.004 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 61 Resp: 3392

Ion	Ratio	Lower	Upper
61	100		
96	63.8	21.8	81.8



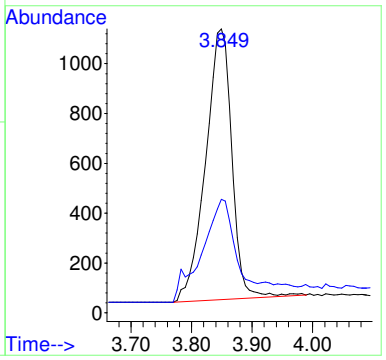
Before MI:
IMPROPER
BASELINE

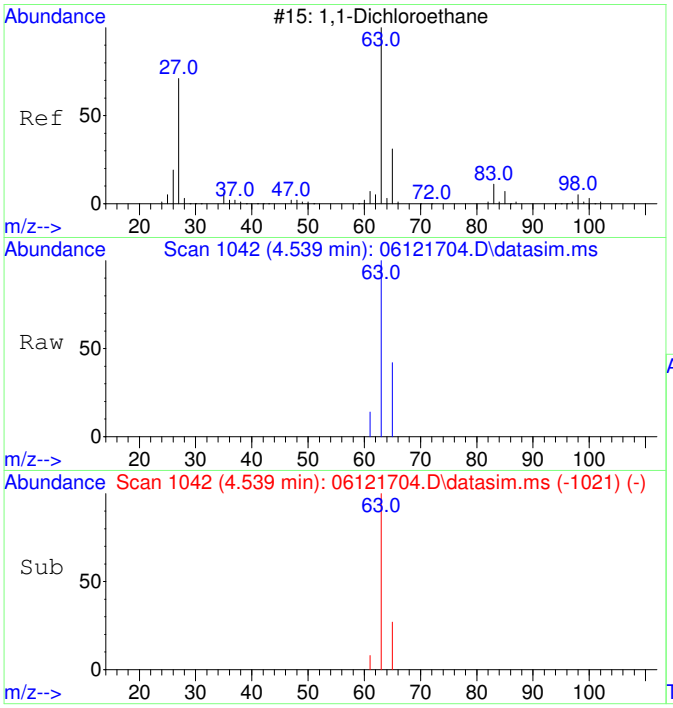


#3
trans-1,2-Dichloroethene
Concen: 57.88 ug/L
RT: 3.849 min Scan# 938
Delta R.T. -0.020 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 61 Resp: 3275

Ion	Ratio	Lower	Upper
61	100		
63	24.2	1.0	61.0

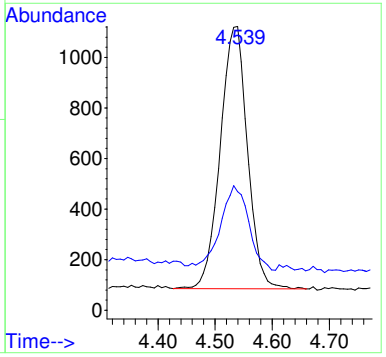


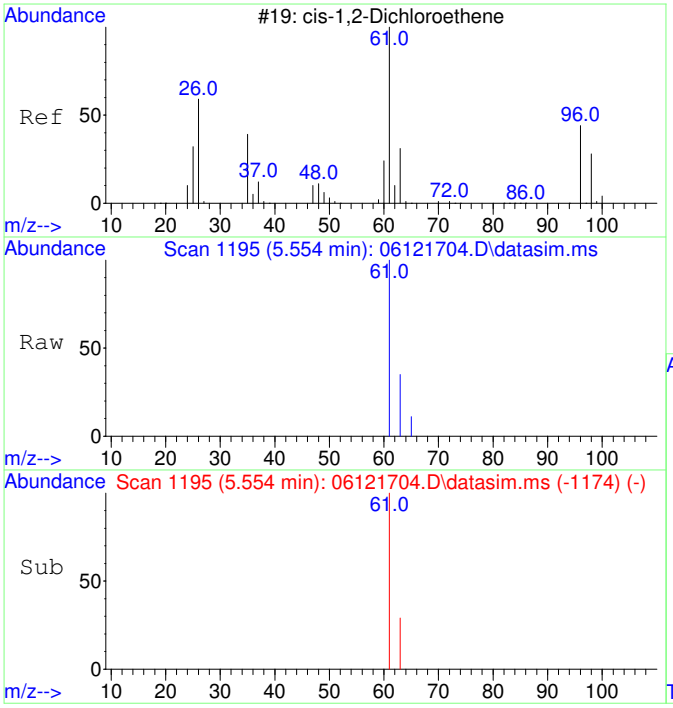


#4
1,1-Dichloroethane
Concen: 56.45 ug/L
RT: 4.539 min Scan# 1042
Delta R.T. -0.013 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 63 Resp: 3443

Ion	Ratio	Lower	Upper
63	100		
65	31.0	0.4	60.4

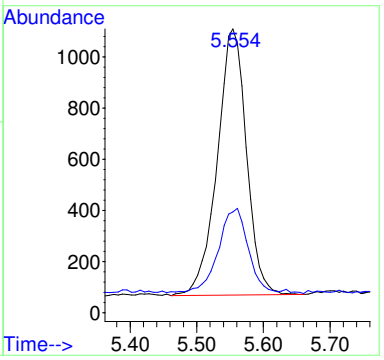


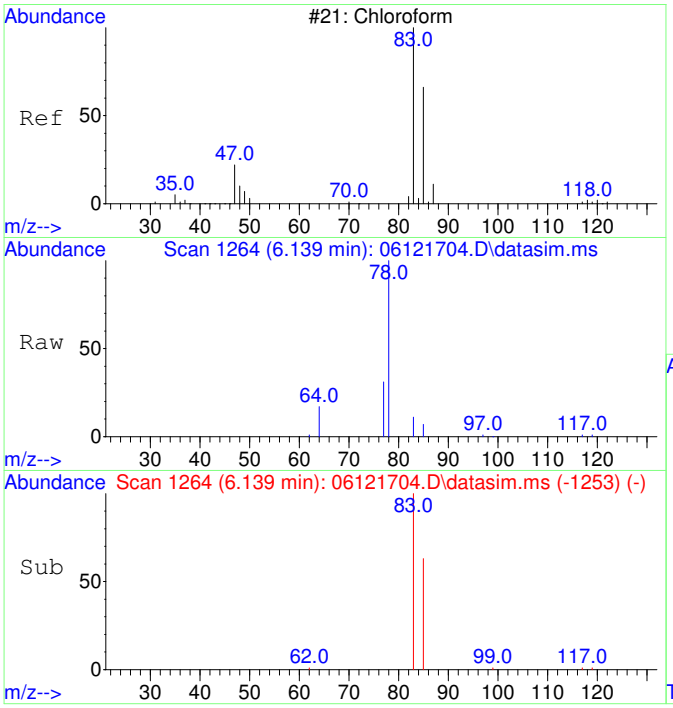


#5
cis-1,2-Dichloroethene
Concen: 54.51 ug/L
RT: 5.554 min Scan# 1195
Delta R.T. -0.013 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 61 Resp: 3178

Ion	Ratio	Lower	Upper
61	100		
63	31.5	0.9	60.9

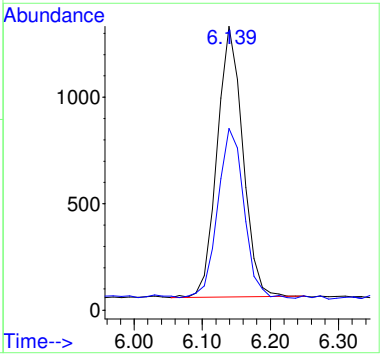


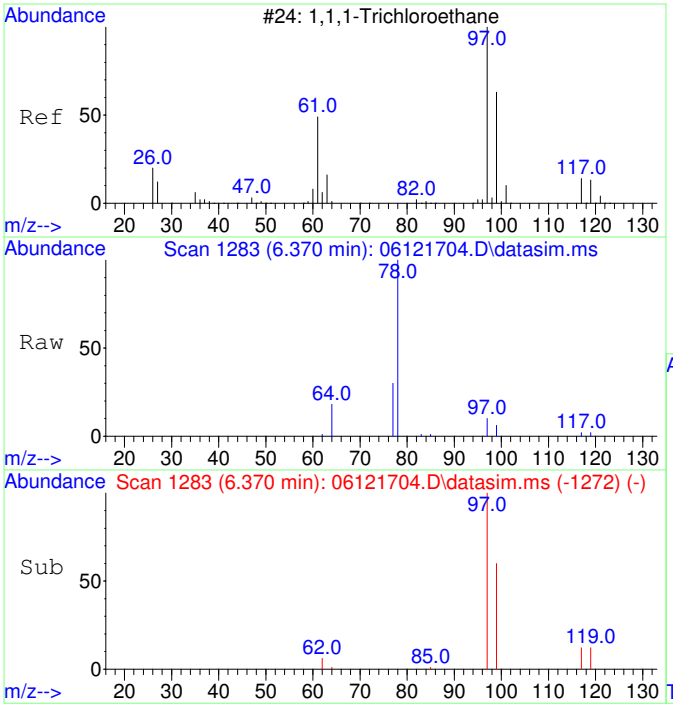


#6
Chloroform
Concen: 58.74 ug/L
RT: 6.139 min Scan# 1264
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 83 Resp: 3314

Ion	Ratio	Lower	Upper
83	100		
85	62.6	33.7	93.7

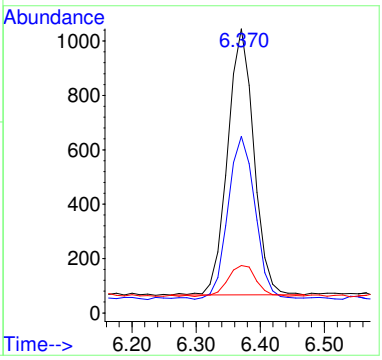


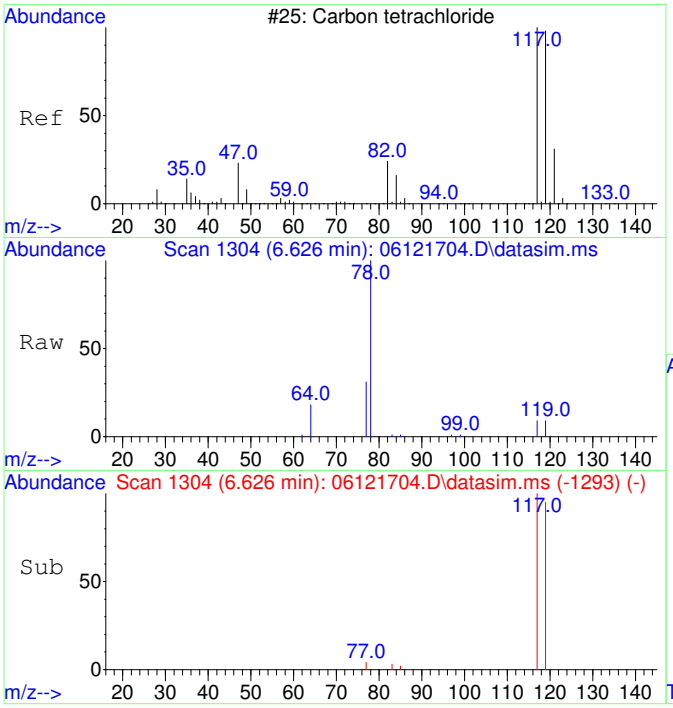


#7
1,1,1-Trichloroethane
Concen: 53.44 ug/L
RT: 6.370 min Scan# 1283
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 2769

Ion	Ratio	Lower	Upper
97	100		
99	63.0	34.3	94.3
117	12.6	0.0	42.3

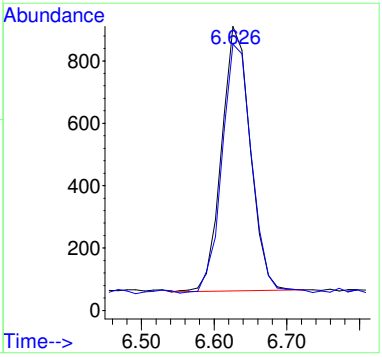


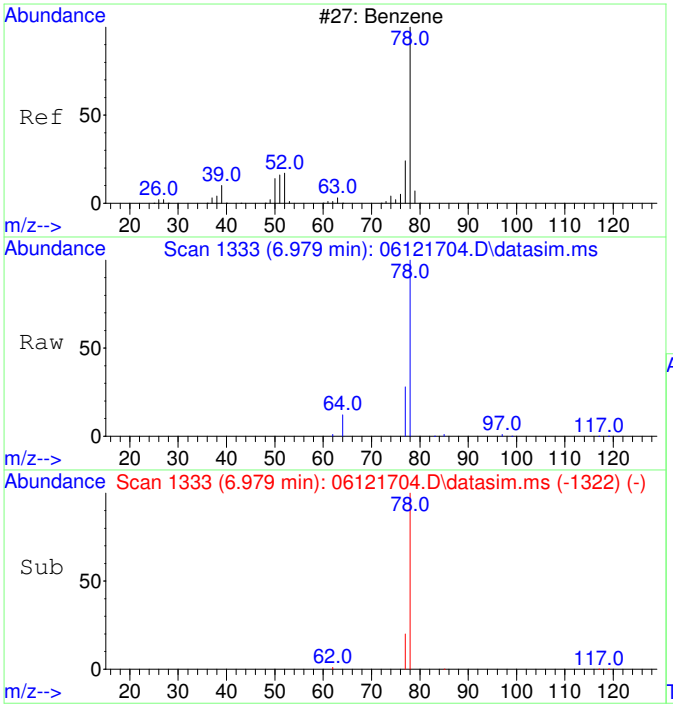


#8
Carbon tetrachloride
Concen: 52.08 ug/L
RT: 6.626 min Scan# 1304
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:117 Resp: 2328

Ion	Ratio	Lower	Upper
117	100		
119	97.3	65.5	125.5

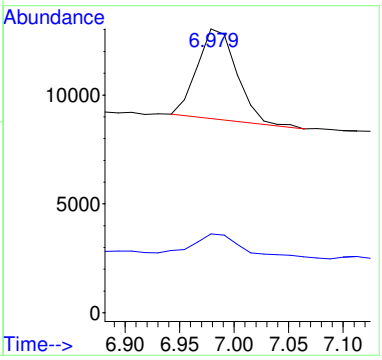


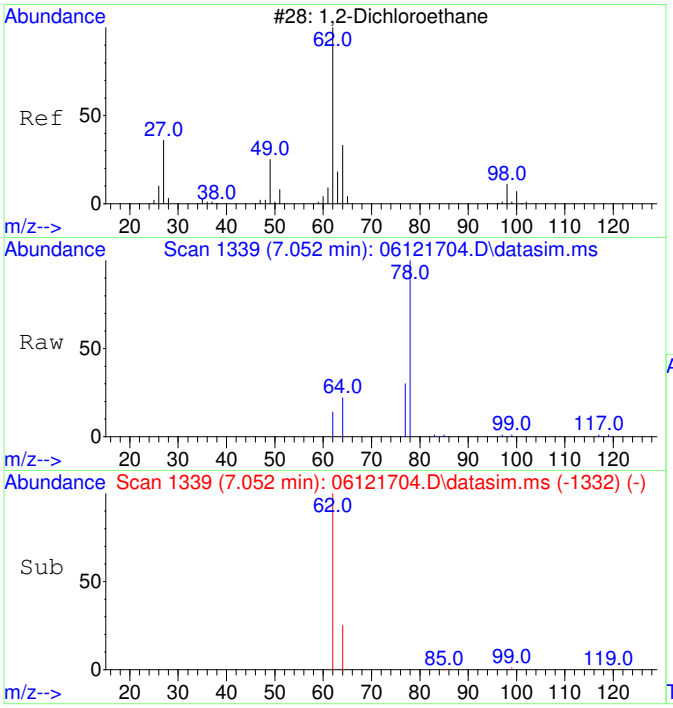


#9
Benzene
Concen: 78.54 ug/L
RT: 6.979 min Scan# 1333
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 78 Resp: 10319

Ion	Ratio	Lower	Upper
78	100		
77	26.3	0.0	53.0

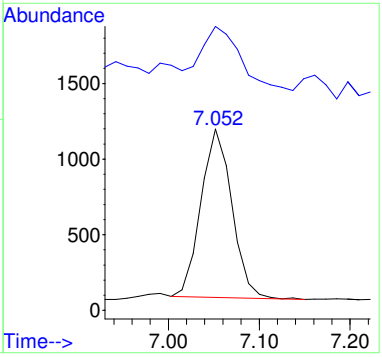


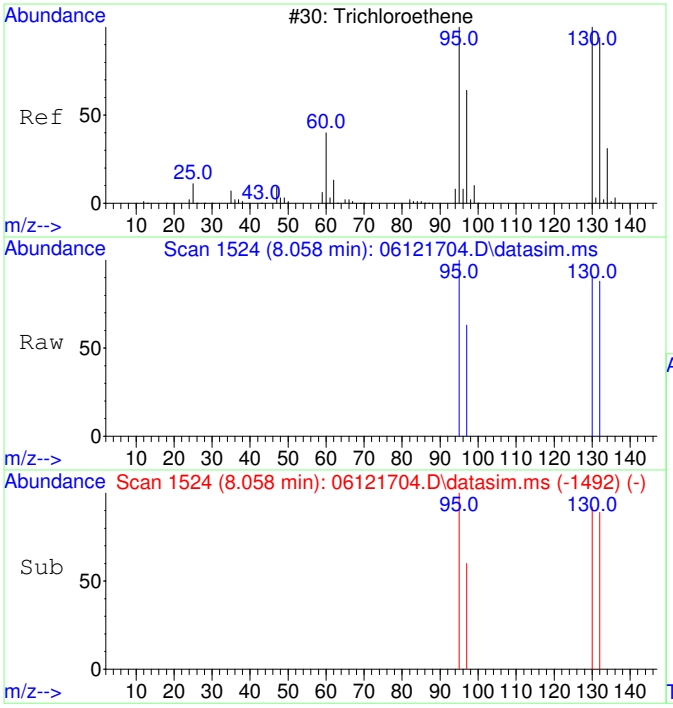


#10
1,2-Dichloroethane
Concen: 53.99 ug/L
RT: 7.052 min Scan# 1339
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 62 Resp: 2628

Ion	Ratio	Lower	Upper
62	100		
64	30.7	2.6	62.6

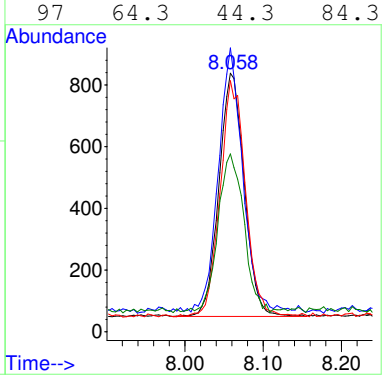


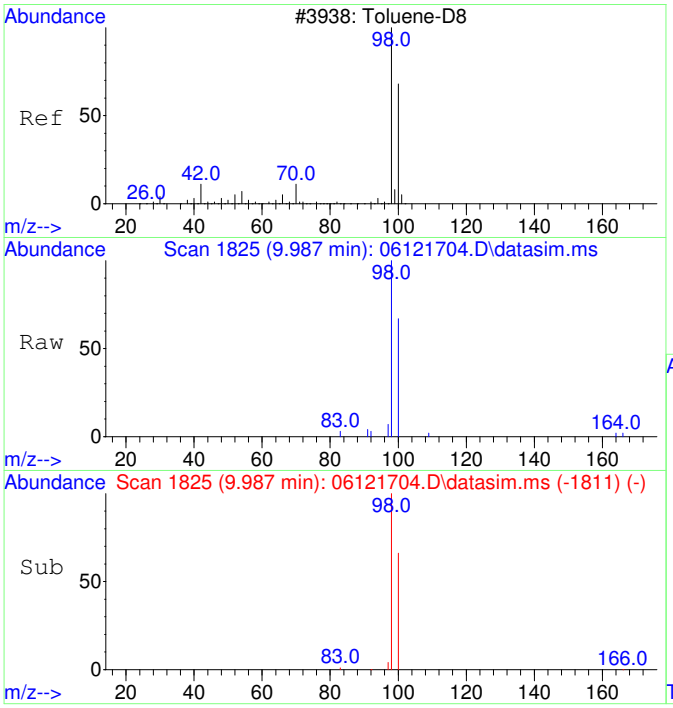


#11
Trichloroethene
Concen: 52.32 ug/L
RT: 8.058 min Scan# 1524
Delta R.T. -0.005 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:130 Resp: 1768

Ion	Ratio	Lower	Upper
130	100		
95	103.3	69.8	129.8
132	96.3	76.4	116.4
97	64.3	44.3	84.3

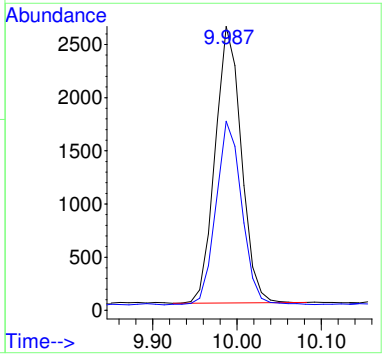


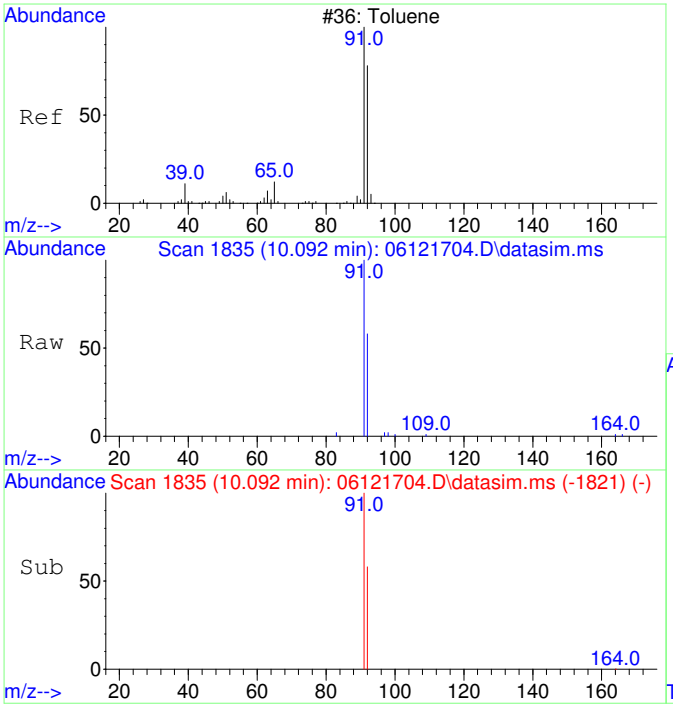


#12
Toluene-d8
Concen: 51.83 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 98 Resp: 5619

Ion	Ratio	Lower	Upper
98	100		
100	65.1	34.2	94.2

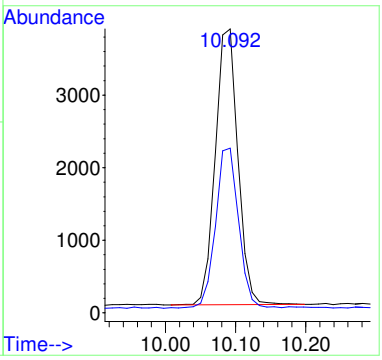


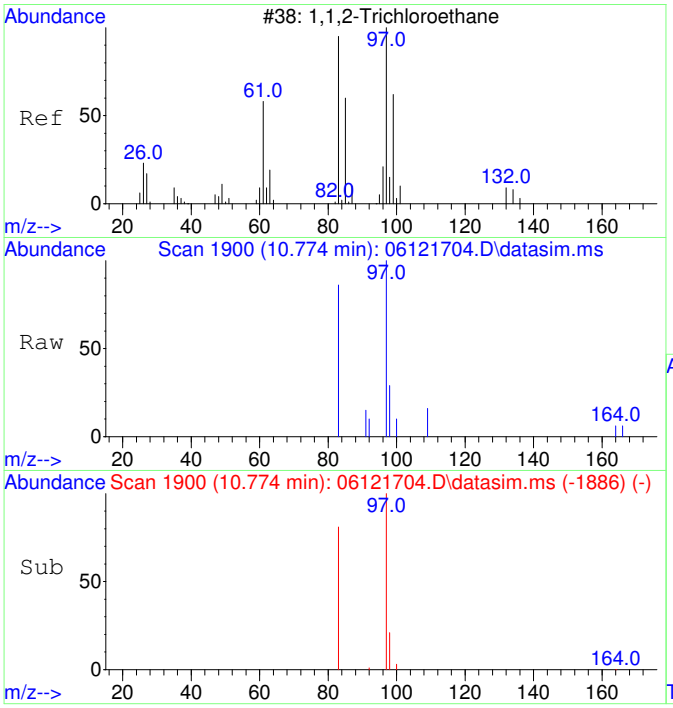


#13
Toluene
Concen: 59.18 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 8497

Ion	Ratio	Lower	Upper
91	100		
92	58.0	28.4	88.4

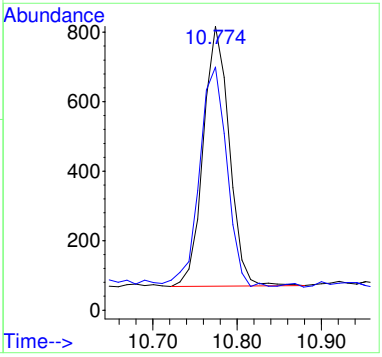


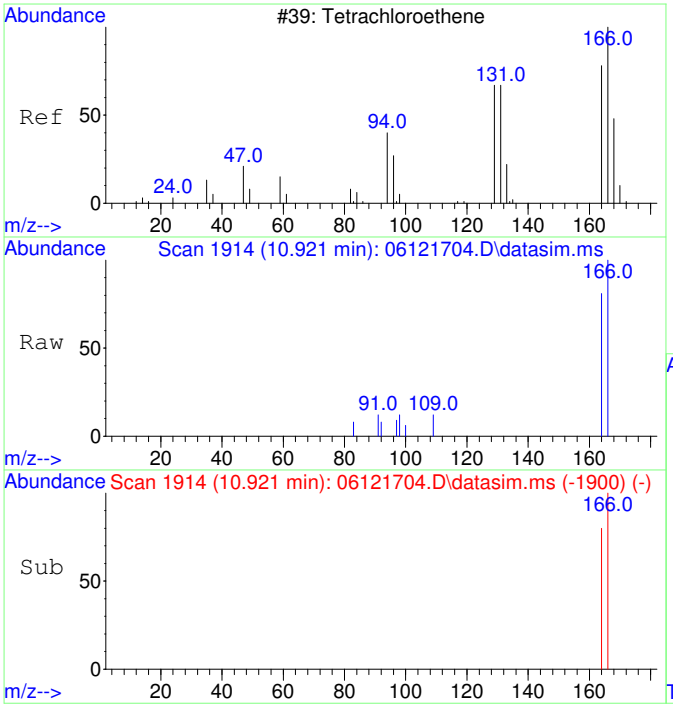


#14
1,1,2-Trichloroethane
Concen: 52.25 ug/L
RT: 10.774 min Scan# 1900
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 1604

Ion	Ratio	Lower	Upper
97	100		
83	87.1	54.5	114.5

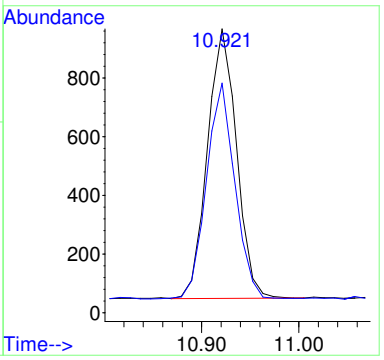


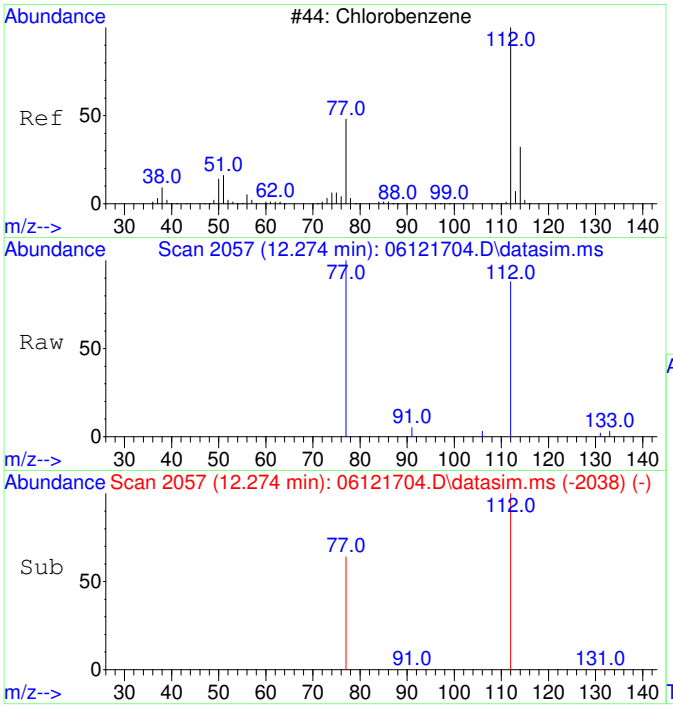


#15
Tetrachloroethene
Concen: 51.91 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:166 Resp: 1910

Ion	Ratio	Lower	Upper
166	100		
164	77.2	48.1	108.1

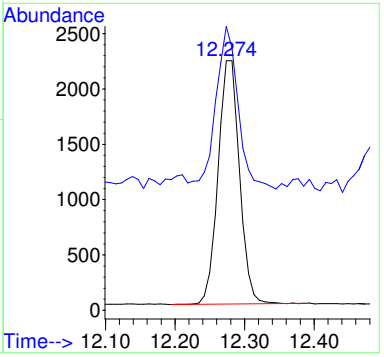


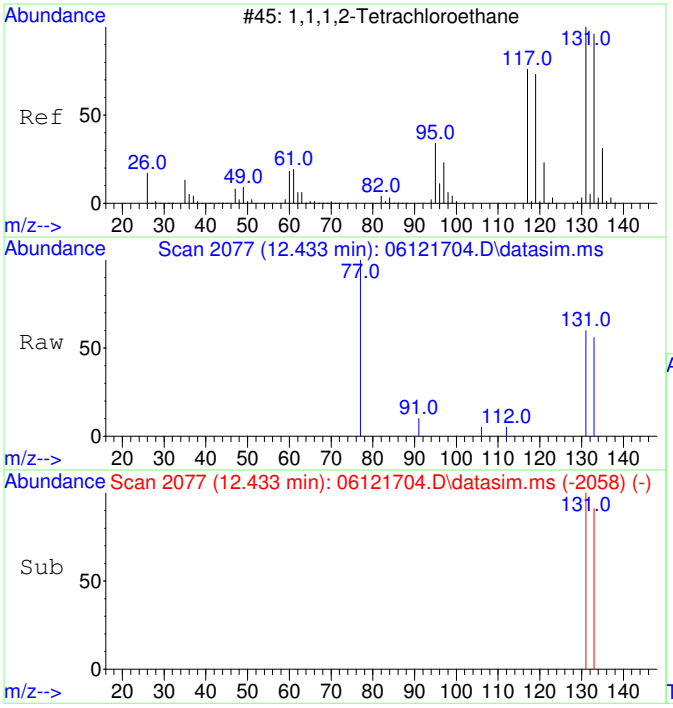


#16
Chlorobenzene
Concen: 51.73 ug/L
RT: 12.274 min Scan# 2057
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:112 Resp: 4717

Ion	Ratio	Lower	Upper
112	100		
77	63.2	28.9	88.9

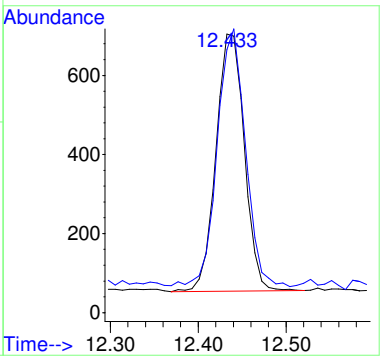


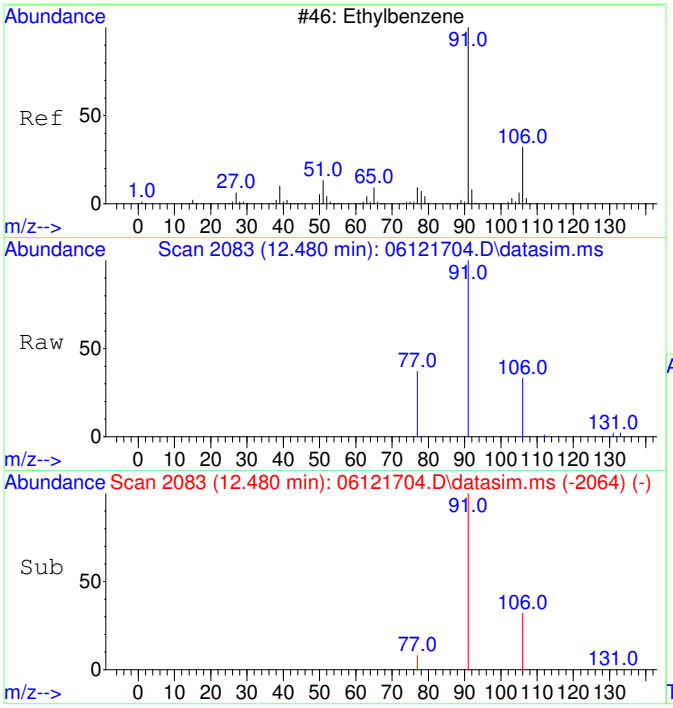


#17
1,1,1,2-Tetrachloroethane
Concen: 48.68 ug/L
RT: 12.433 min Scan# 2077
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:131 Resp: 1457

Ion	Ratio	Lower	Upper
131	100		
133	97.5	65.2	125.2

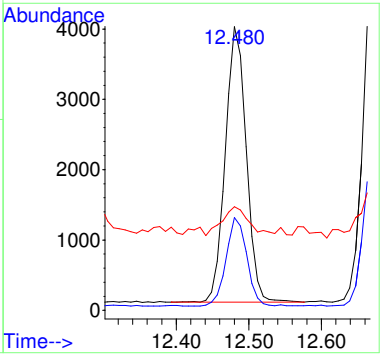


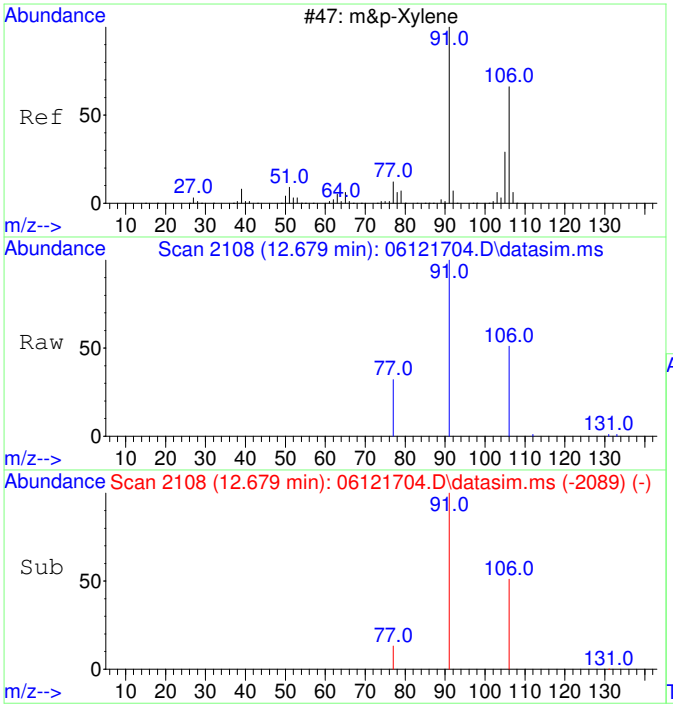


#18
Ethylbenzene
Concen: 50.64 ug/L
RT: 12.480 min Scan# 2083
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 7825

Ion	Ratio	Lower	Upper
91	100		
106	31.7	1.2	61.2
77	13.6	0.0	38.6

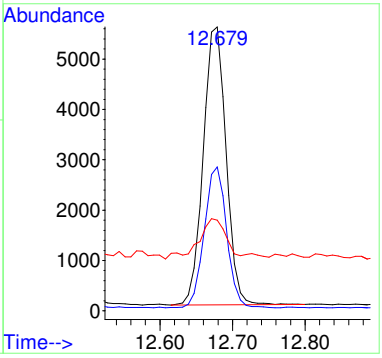


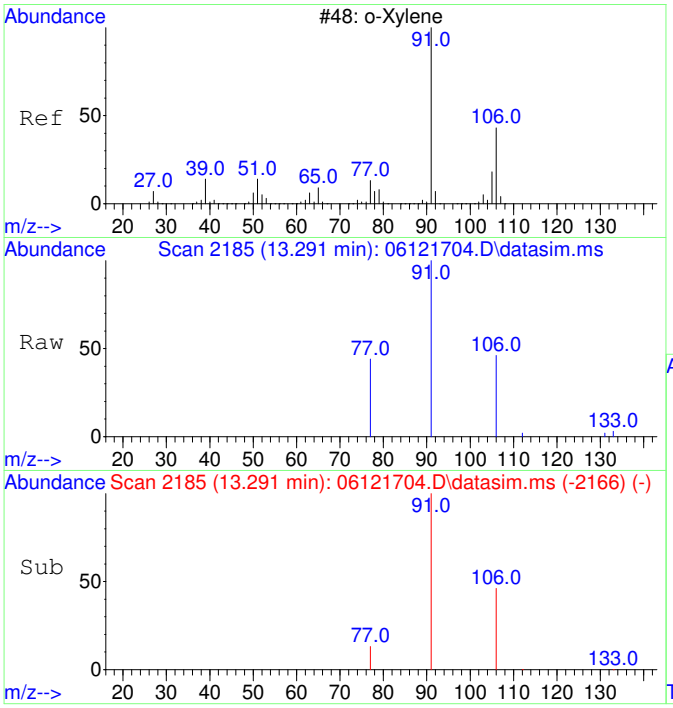


#19
m&p-Xylene
Concen: 99.80 ug/L
RT: 12.679 min Scan# 2108
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 12097

Ion	Ratio	Lower	Upper
91	100		
106	49.5	18.4	78.4
77	15.6	0.0	43.1

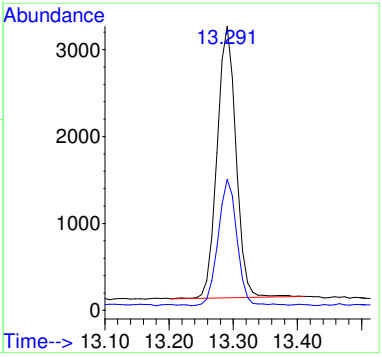


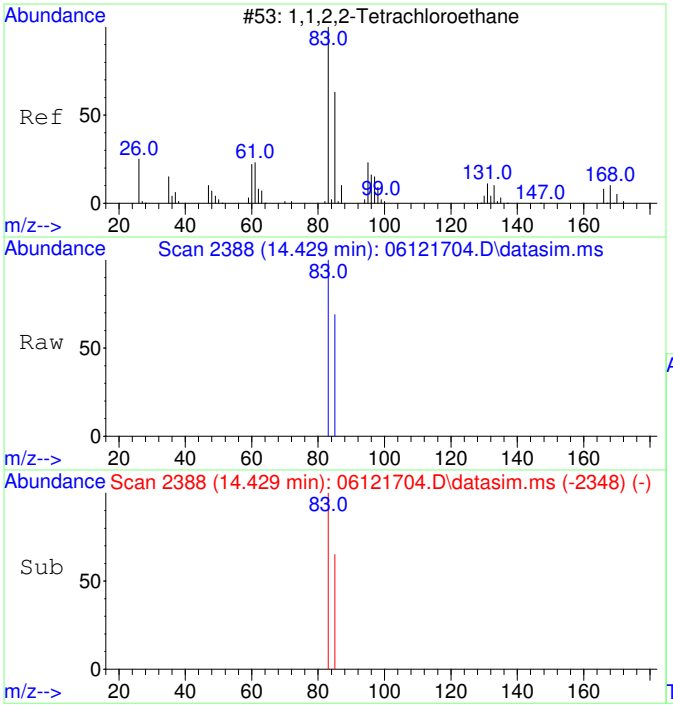


#20
o-Xylene
Concen: 50.70 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 6356

Ion	Ratio	Lower	Upper
91	100		
106	45.7	16.0	76.0

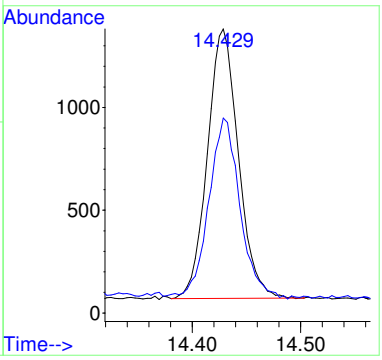


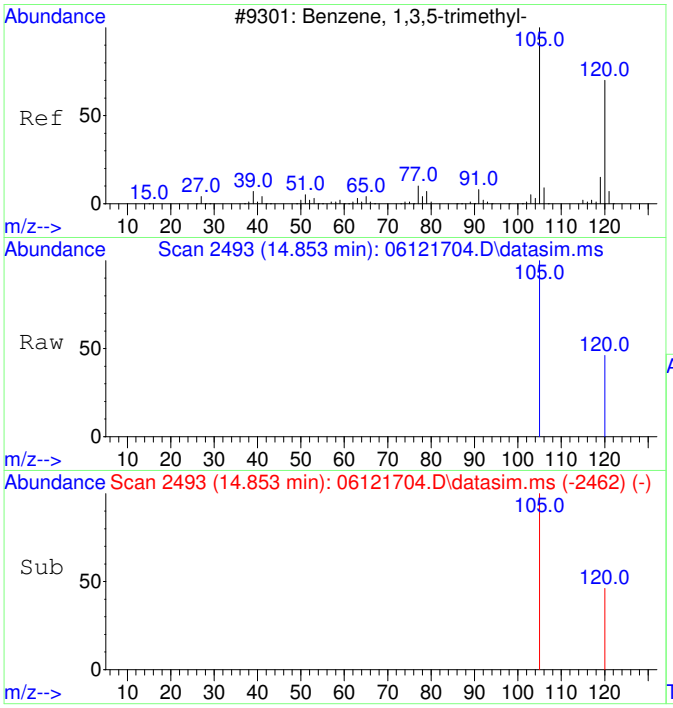


#21
1,1,2,2-Tetrachloroethane
Concen: 48.86 ug/L
RT: 14.429 min Scan# 2388
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 83 Resp: 2605

Ion	Ratio	Lower	Upper
83	100		
85	66.3	34.1	94.1

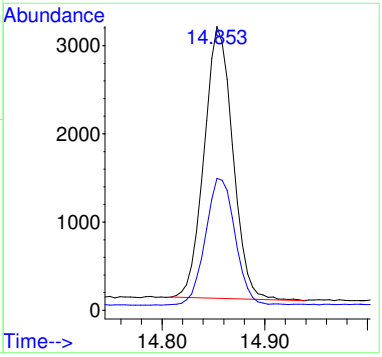


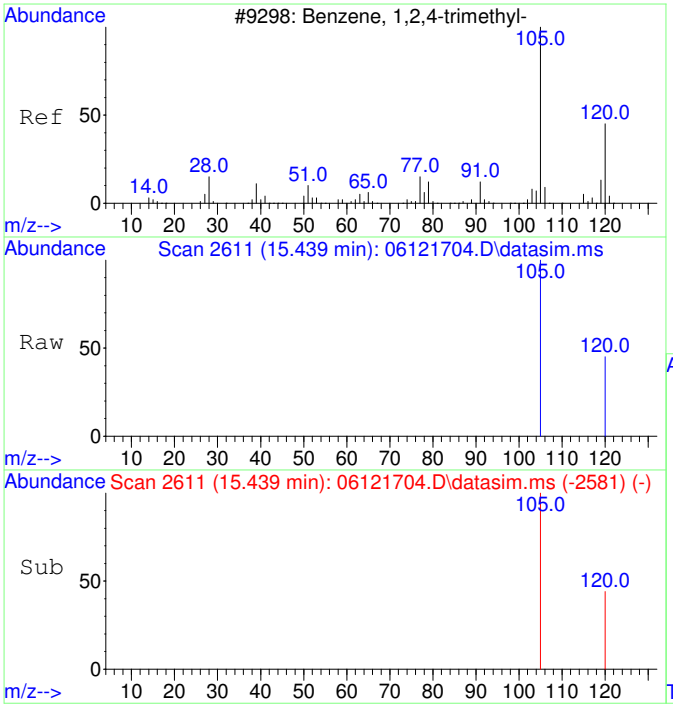


#22
1,3,5-Trimethylbenzene
Concen: 48.00 ug/L
RT: 14.853 min Scan# 2493
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 5941

Ion	Ratio	Lower	Upper
105	100		
120	48.6	18.0	78.0

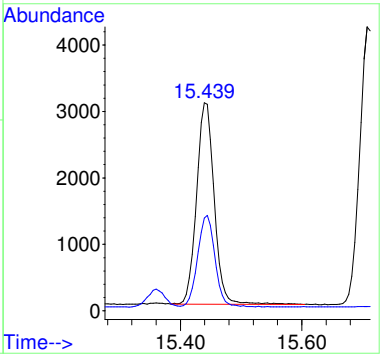


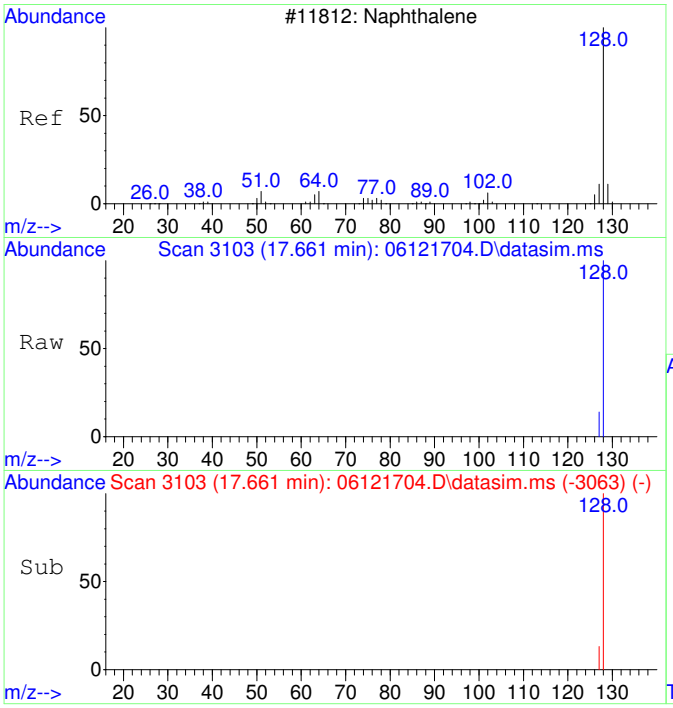


#23
1,2,4-Trimethylbenzene
Concen: 48.23 ug/L
RT: 15.439 min Scan# 2611
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 6120

Ion	Ratio	Lower	Upper
105	100		
120	43.8	14.4	74.4

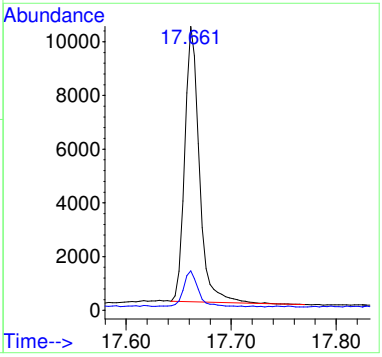


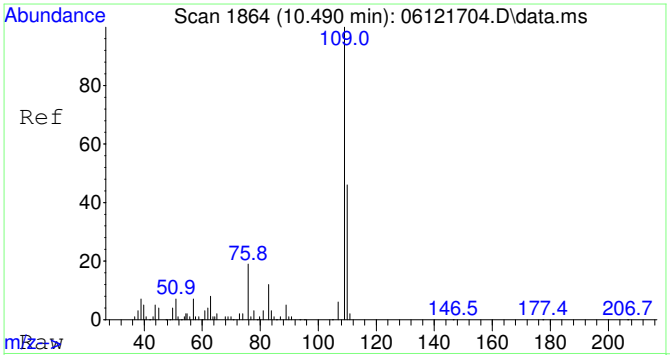


#24
Naphthalene
Concen: 53.22 ug/L
RT: 17.661 min Scan# 3103
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:128 Resp: 10001

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.7

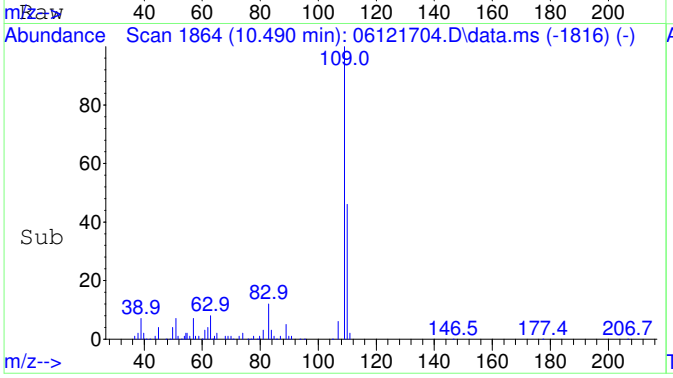


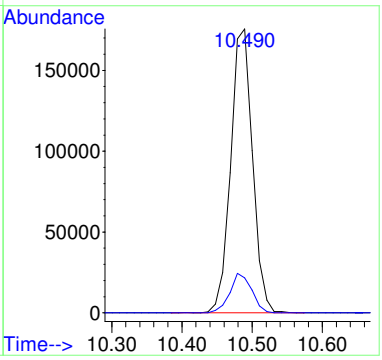


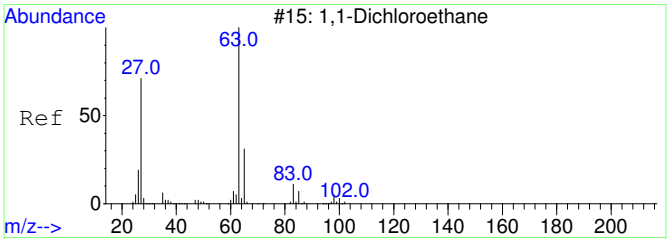
#25
2-Fluorotoluene SCAN
Concen: 4750.83 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:109 Resp: 381310

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	46.1



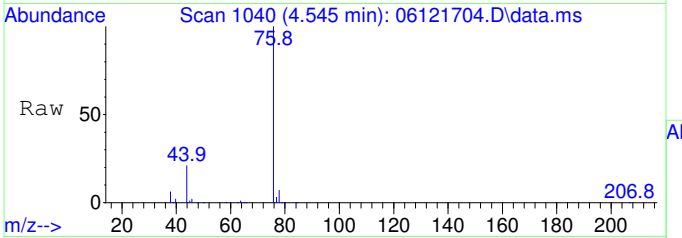


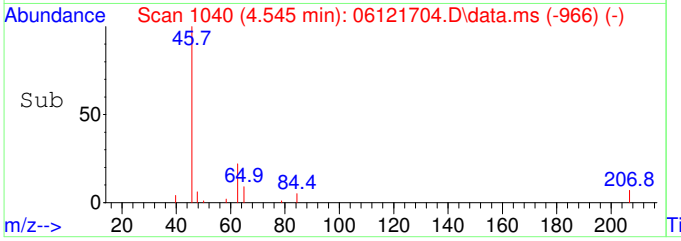


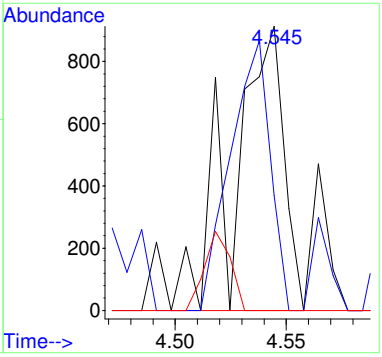
#28
1,1-Dichloroethane SCAN
Concen: 35.41 ug/L
RT: 4.545 min Scan# 1040
Delta R.T. -0.007 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

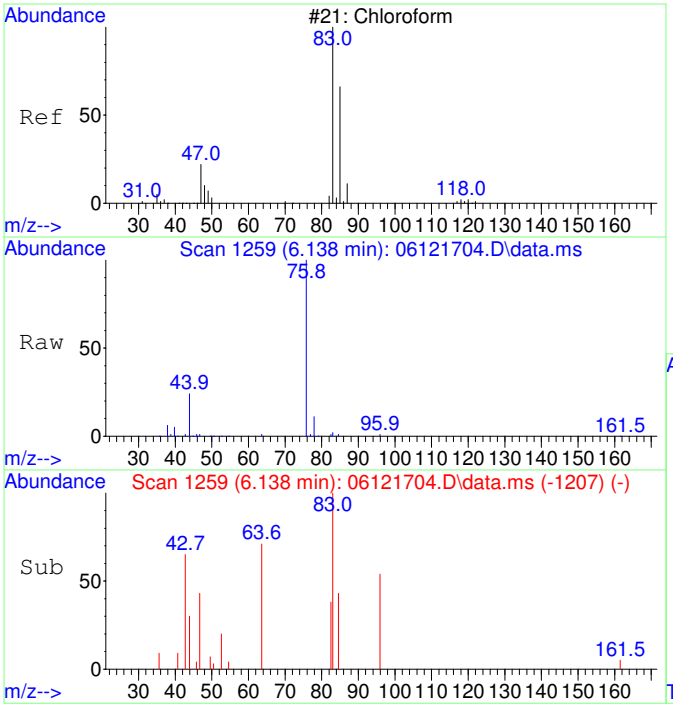
Tgt Ion: 63 Resp: 1455

Ion	Ratio	Lower	Upper
63	100		
65	74.5	1.1	61.1#
83	0.0	0.0	31.5





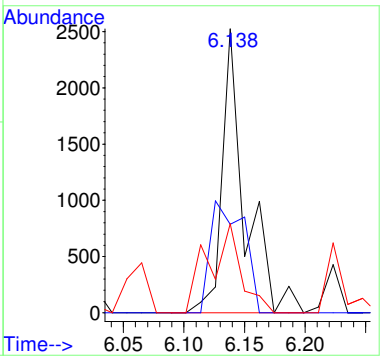


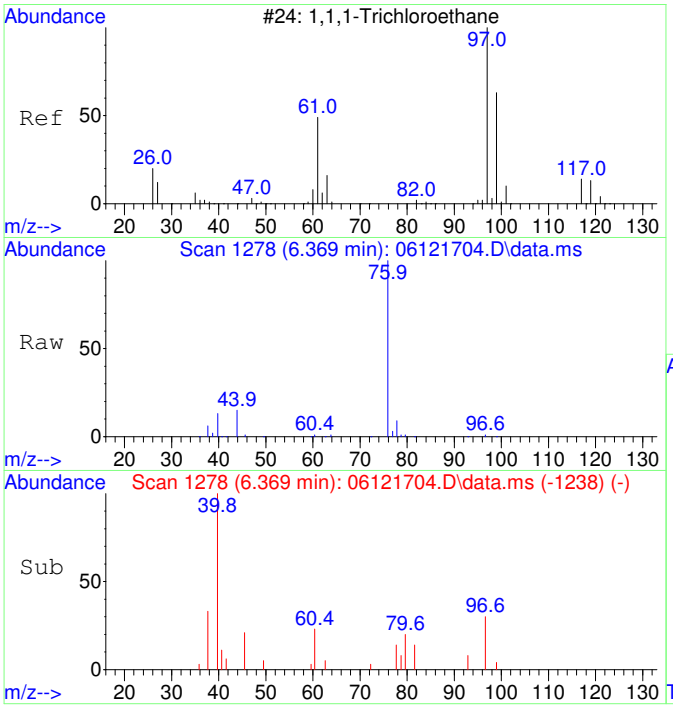


#30
Chloroform SCAN
Concen: 89.09 ug/L
RT: 6.138 min Scan# 1259
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 83 Resp: 3340

Ion	Ratio	Lower	Upper
83	100		
85	57.6	31.2	91.2
47	44.5	3.2	63.2

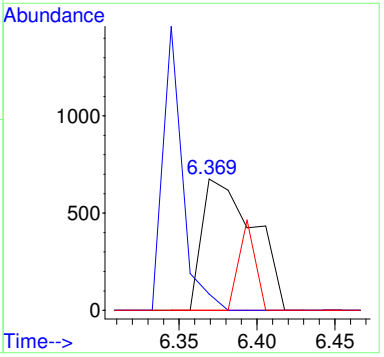


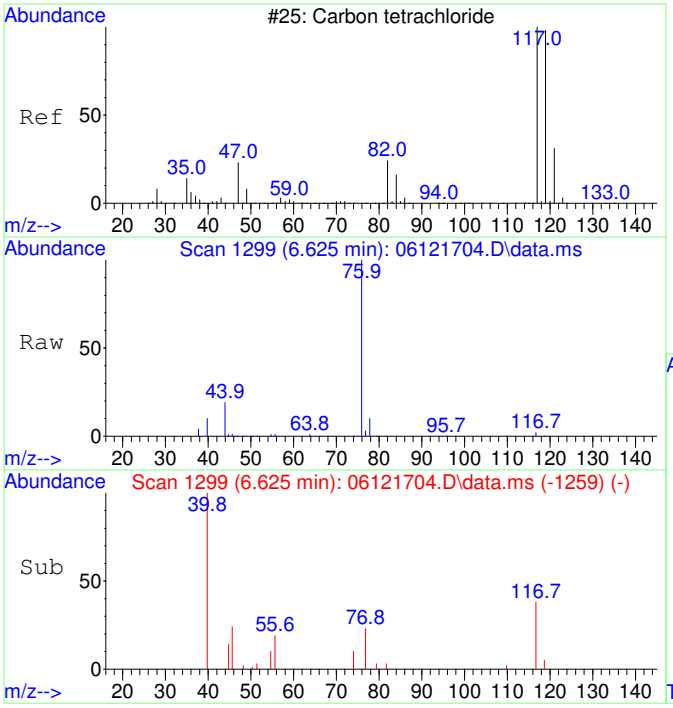


#31
1,1,1-Trichloroethane SCAN
Concen: 50.89 ug/L
RT: 6.369 min Scan# 1278
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 1570

Ion	Ratio	Lower	Upper
97	100		
99	0.0	38.7	98.7#
61	0.0	27.8	87.8#

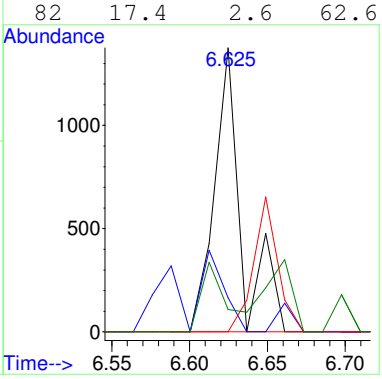


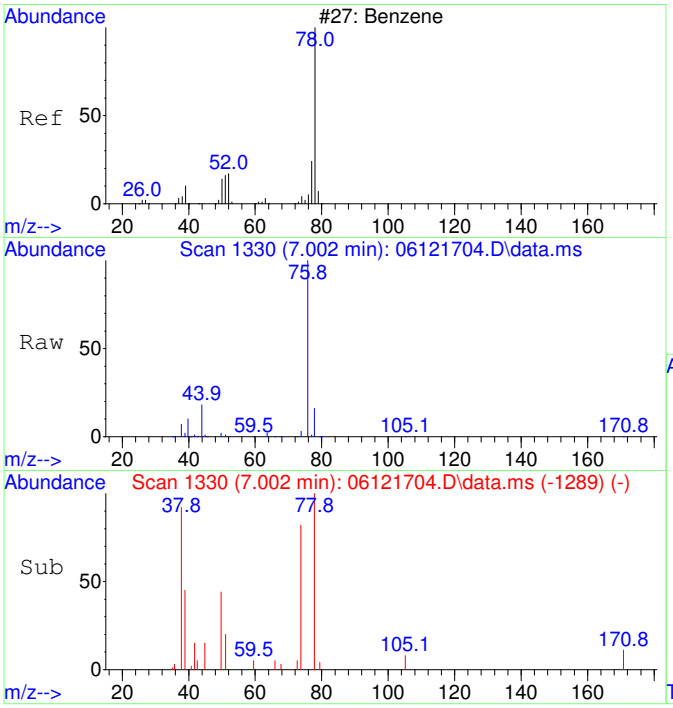


#32
Carbon tetrachloride SCAN
Concen: 58.62 ug/L
RT: 6.625 min Scan# 1299
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:117 Resp: 1665

Ion	Ratio	Lower	Upper
117	100		
119	24.6	66.8	126.8#
121	0.0	0.4	60.4#
82	17.4	2.6	62.6

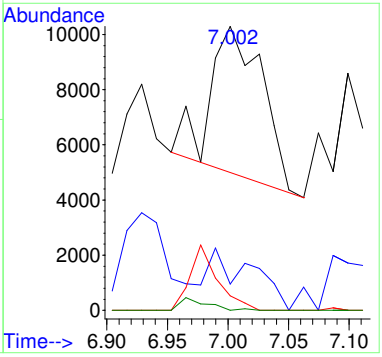


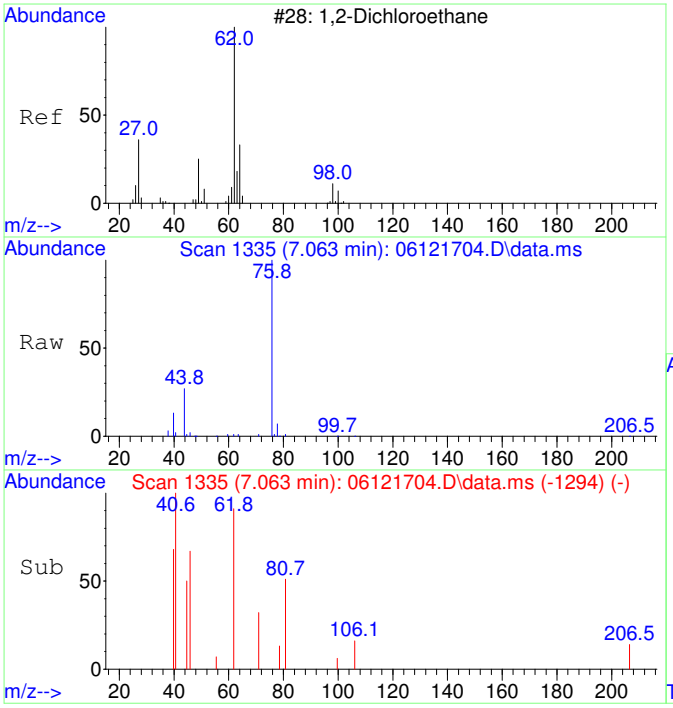


#33
Benzene SCAN
Concen: 183.55 ug/L
RT: 7.002 min Scan# 1330
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 78 Resp: 15596

Ion	Ratio	Lower	Upper
78	100		
77	21.8	0.0	55.2
51	0.0	0.0	52.4
52	0.0	0.0	53.3

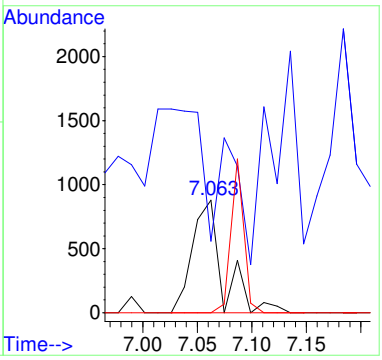


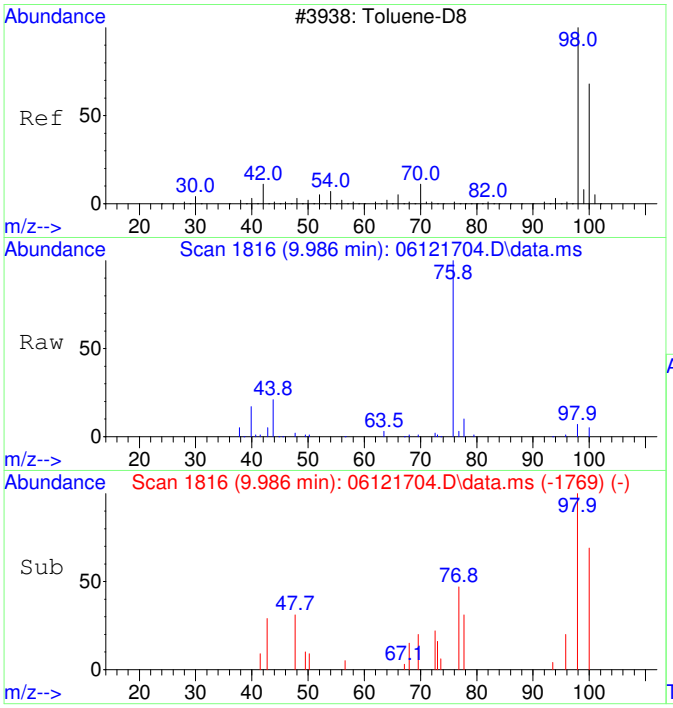


#34
1,2-Dichloroethane SCAN
Concen: 46.78 ug/L
RT: 7.063 min Scan# 1335
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 62 Resp: 1715

Ion	Ratio	Lower	Upper
62	100		
64	0.0	7.4	67.4#
49	0.0	0.0	54.8

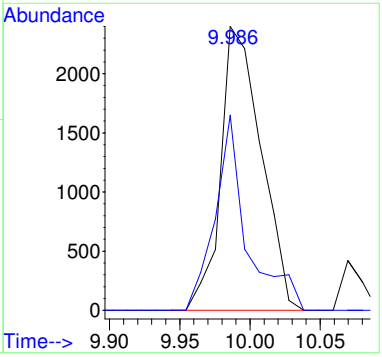


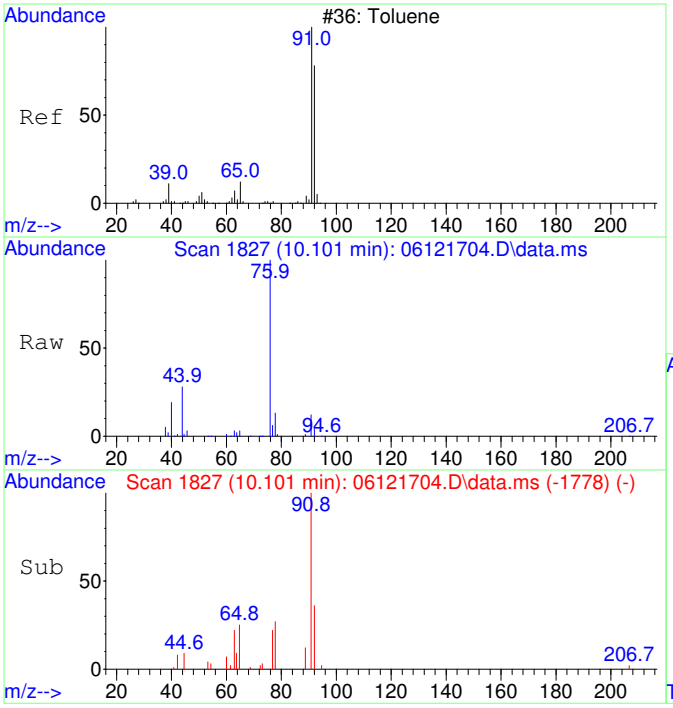


#36
Toluene-d8 SCAN
Concen: 72.96 ug/L
RT: 9.986 min Scan# 1816
Delta R.T. -0.011 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 98 Resp: 4833

Ion	Ratio	Lower	Upper
98	100		
100	54.3	36.2	96.2

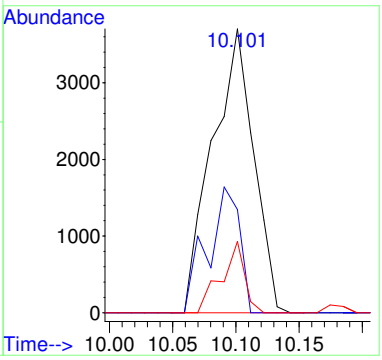


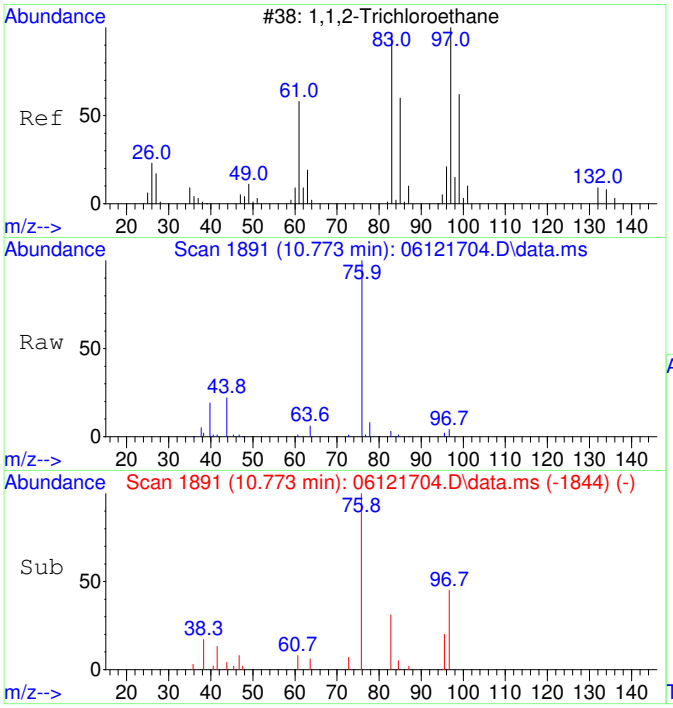


#37
Toluene SCAN
Concen: 95.67 ug/L
RT: 10.101 min Scan# 1827
Delta R.T. 0.010 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 8452

Ion	Ratio	Lower	Upper
91	100		
92	34.1	29.2	89.2
65	14.2	0.0	44.3

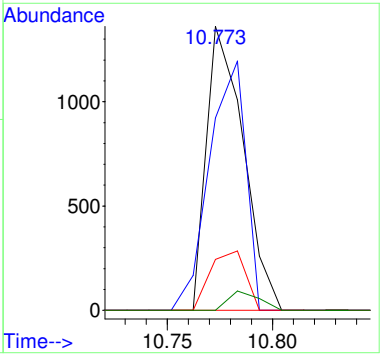


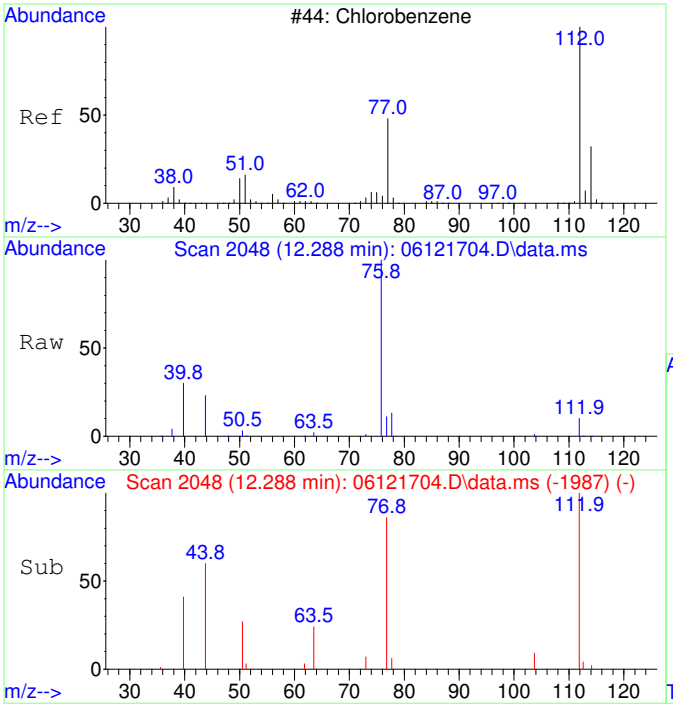


#38
1,1,2-Trichloroethane SCAN
Concen: 83.28 ug/L
RT: 10.773 min Scan# 1891
Delta R.T. -0.011 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 1657

Ion	Ratio	Lower	Upper
97	100		
83	86.8	57.8	117.8
61	20.0	48.6	108.6#
99	5.7	32.7	92.7#

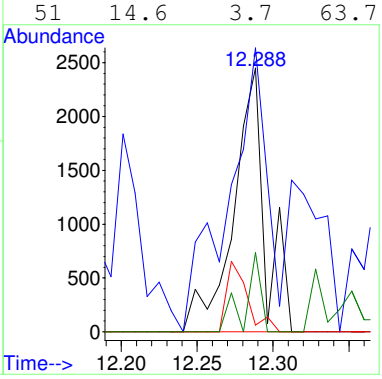


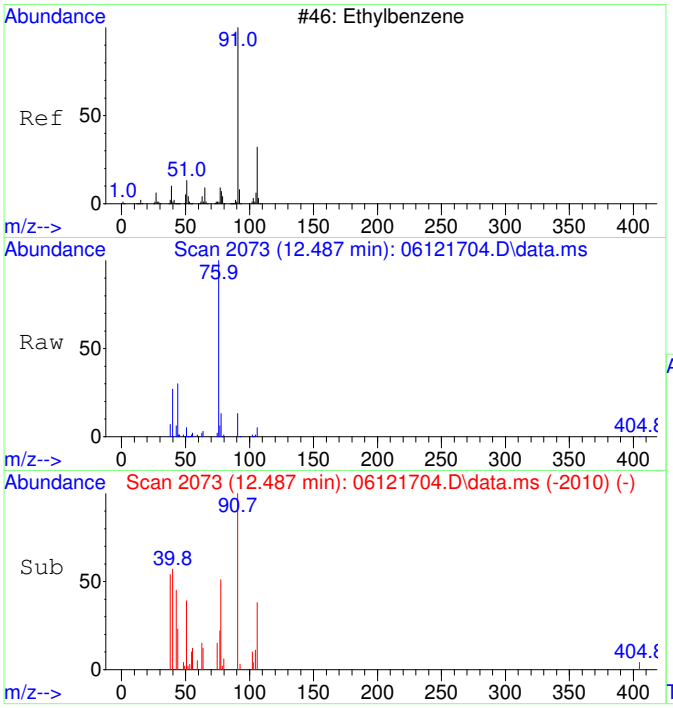


#40
Chlorobenzene SCAN
Concen: 65.80 ug/L
RT: 12.288 min Scan# 2048
Delta R.T. 0.008 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:112 Resp: 3571

Ion	Ratio	Lower	Upper
112	100		
77	118.6	35.1	95.1#
114	17.5	2.6	62.6
51	14.6	3.7	63.7

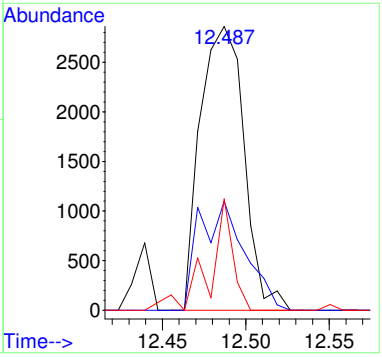


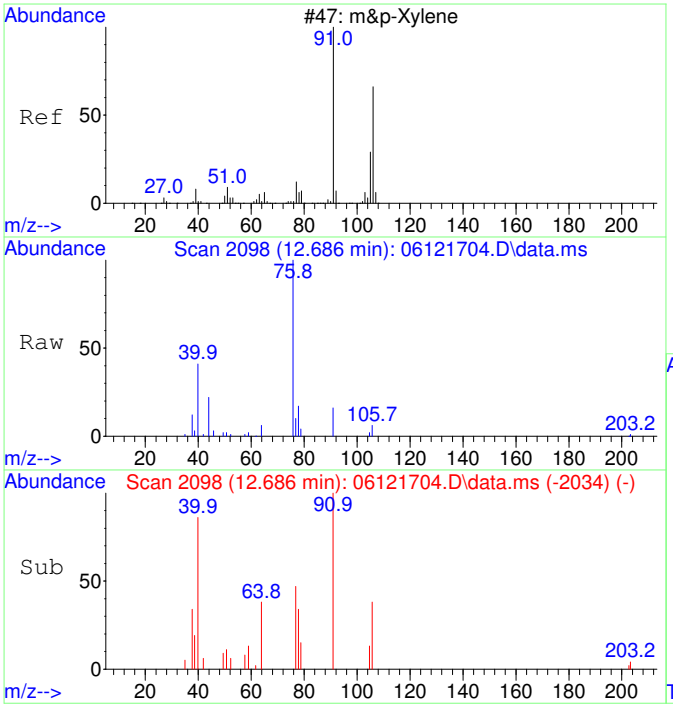


#42
Ethylbenzene SCAN
Concen: 52.95 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 5238

Ion	Ratio	Lower	Upper
91	100		
106	39.9	0.0	59.8
51	20.9	0.0	45.5

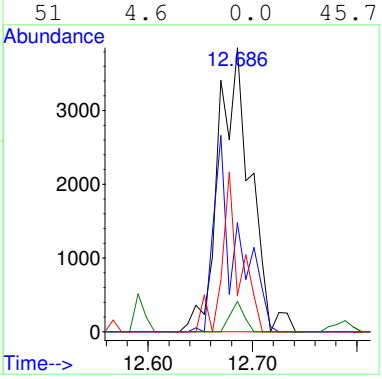


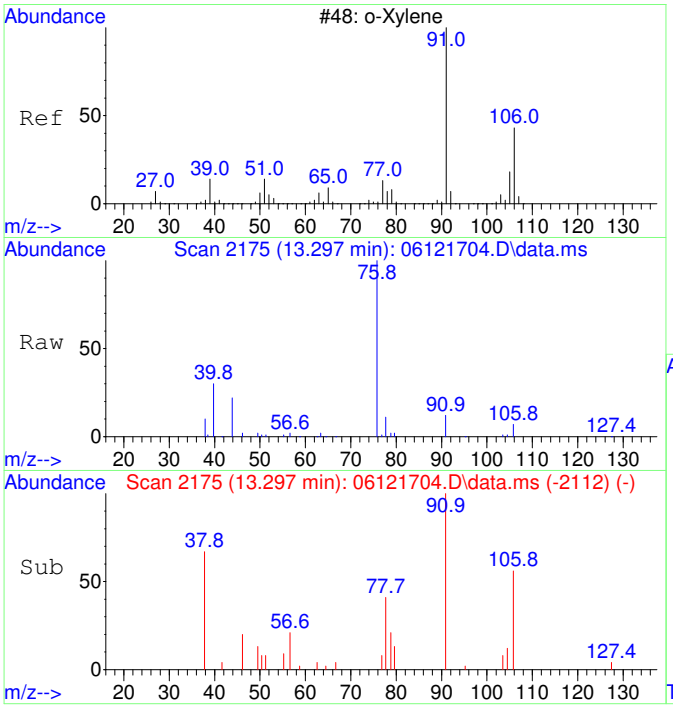


#43
m&p-Xylene SCAN
Concen: 53.25 ug/L
RT: 12.686 min Scan# 2098
Delta R.T. 0.008 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 8225

Ion	Ratio	Lower	Upper
91	100		
106	49.6	18.5	78.5
105	31.2	0.0	51.3
51	4.6	0.0	45.7

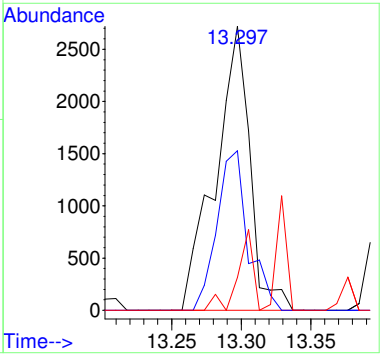


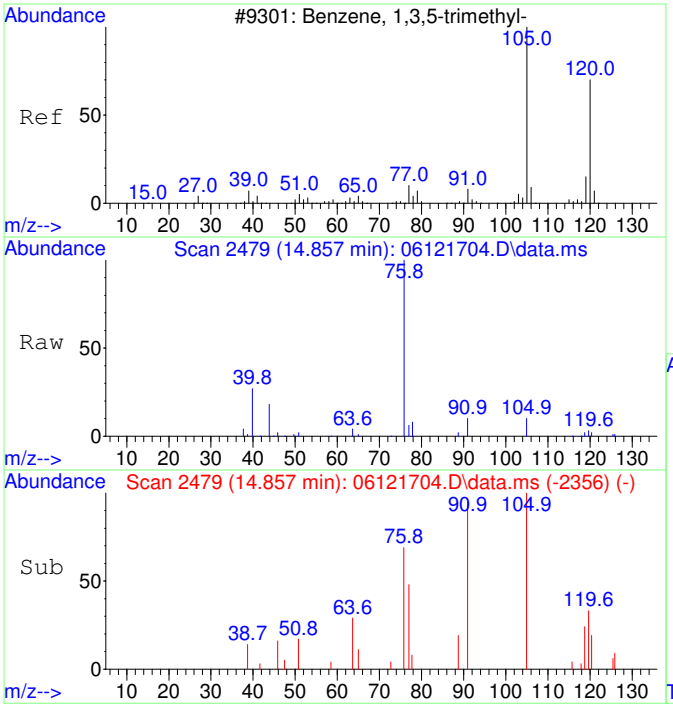


#44
o-Xylene SCAN
Concen: 58.77 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 4674

Ion	Ratio	Lower	Upper
91	100		
106	50.9	15.5	75.5
105	12.6	0.0	54.1

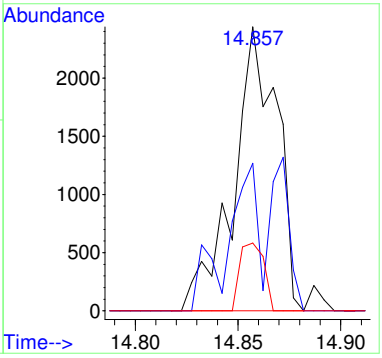


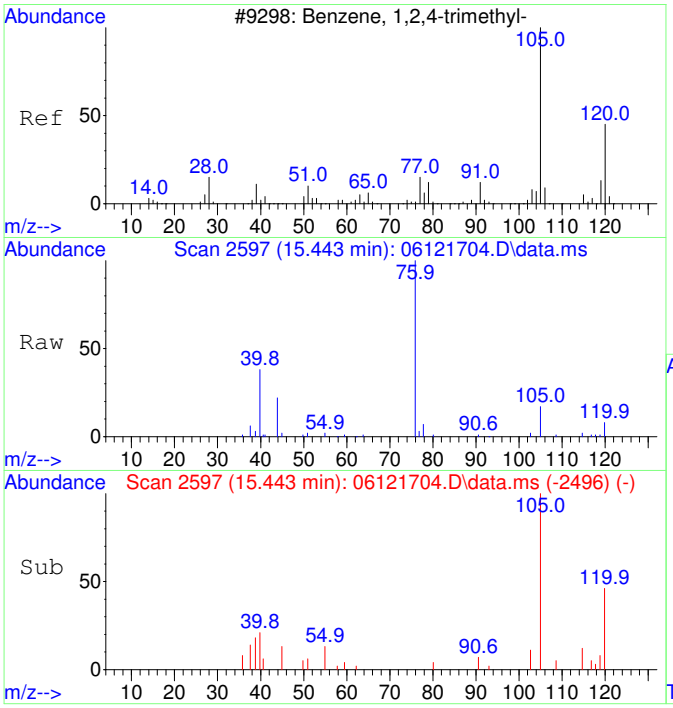


#46
1,3,5-Trimethylbenzene SCAN
Concen: 47.58 ug/L
RT: 14.857 min Scan# 2479
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 3590

Ion	Ratio	Lower	Upper
105	100		
120	31.8	17.3	77.3
119	13.3	0.0	42.7

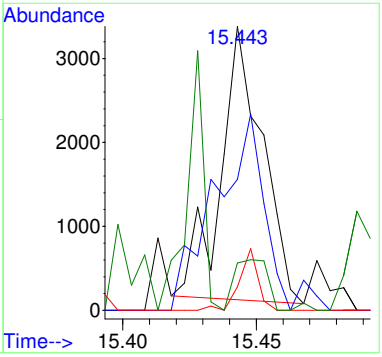


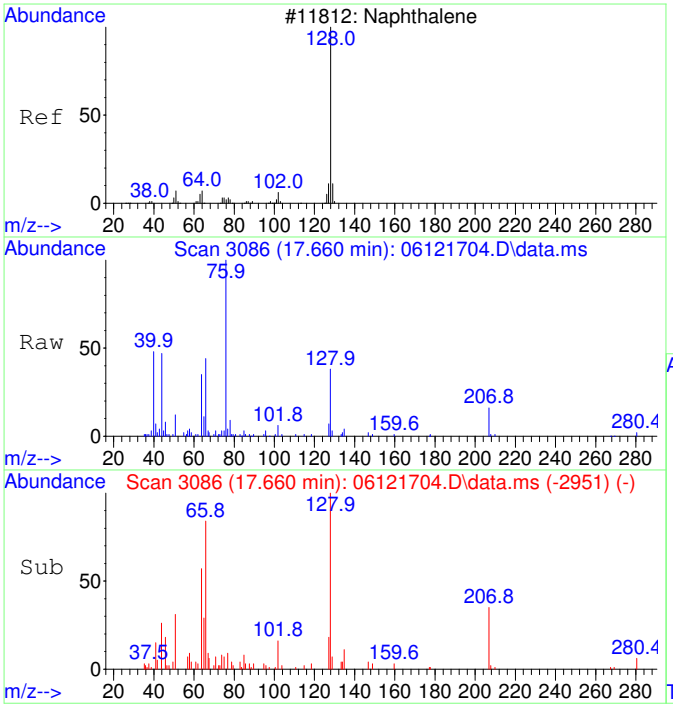


#47
1,2,4-Trimethylbenzene SCAN
Concen: 45.09 ug/L
RT: 15.443 min Scan# 2597
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 3545

Ion	Ratio	Lower	Upper
105	100		
120	83.5	12.9	72.9#
119	9.9	0.0	40.5
77	14.7	0.0	43.3

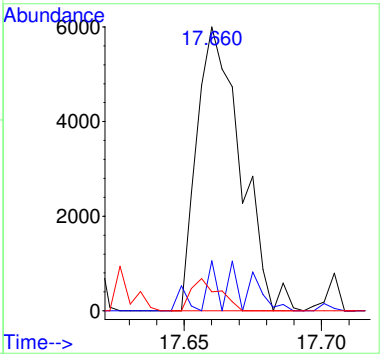




#48
Naphthalene SCAN
Concen: 61.07 ug/L
RT: 17.660 min Scan# 3086
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:128 Resp: 6622

Ion	Ratio	Lower	Upper
128	100		
127	3.5	0.0	43.9
129	7.3	0.0	41.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121704.D
Acq On : 12 Jun 2017 12:43
InstName : AG5975C
Operator : RH
Sample : S17F044-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

M.I. Performed By:
RH at 11:00 am, Jun 13, 2017

M.I. Approved By:
ZR at 11:58 am, Jun 14, 2017

Quant Time: Jun 12 13:02:30 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

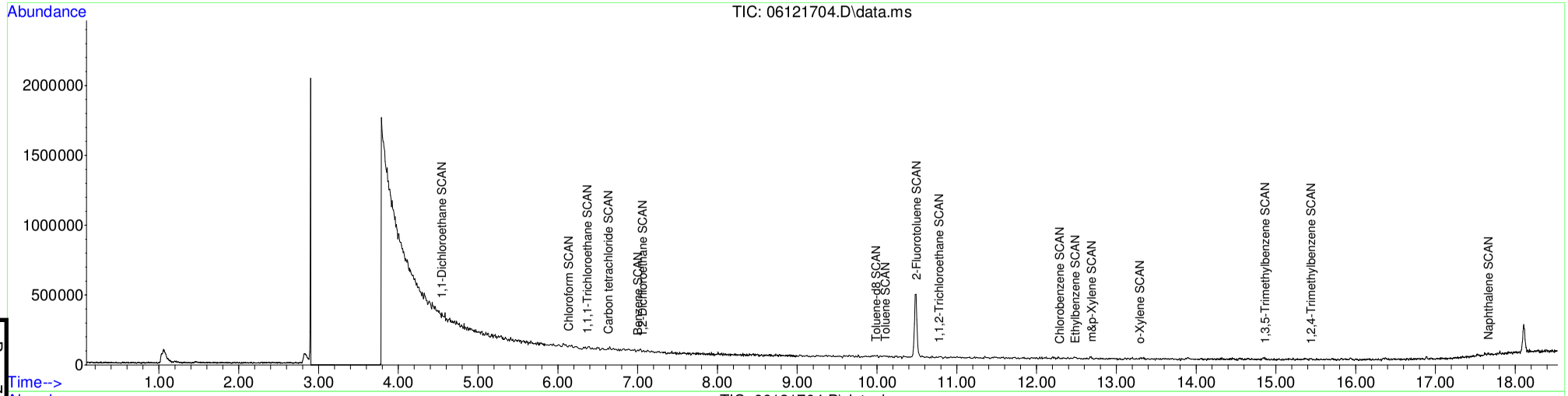
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 2-Fluorotoluene	10.480	109	661990	5000.00	ug/L	0.00
System Monitoring Compounds						
12) Toluene-d8	9.987	98	5619	51.83	ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery = 1.04%#			
Target Compounds						Qvalue
2] 1,1-Dichloroethene	2.714	61	2936m	56.24	ug/L	
3] trans-1,2-Dichloroethene	3.849	61	3275	57.88	ug/L	88
4] 1,1-Dichloroethane	4.539	63	3443	56.45	ug/L	99
5] cis-1,2-Dichloroethene	5.554	61	3178	54.51	ug/L	99
6] Chloroform	6.139	83	3314	58.74	ug/L	99
7] 1,1,1-Trichloroethane	6.370	97	2769	53.44	ug/L	98
8] Carbon tetrachloride	6.626	117	2328	52.08	ug/L	98
9] Benzene	6.979	78	10319	78.54	ug/L	93
10] 1,2-Dichloroethane	7.052	62	2628	53.99	ug/L	97
11] Trichloroethene	8.058	130	1768	52.32	ug/L	99
13] Toluene	10.092	91	8497	59.18	ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	1604	52.25	ug/L	97
15] Tetrachloroethene	10.921	166	1910	51.91	ug/L	99
16] Chlorobenzene	12.274	112	4717	51.73	ug/L	94
17] 1,1,1,2-Tetrachloroethane	12.433	131	1457	48.68	ug/L	98
18] Ethylbenzene	12.480	91	7825	50.64	ug/L	96
19] m&p-Xylene	12.679	91	12097	99.80	ug/L	97
20] o-Xylene	13.291	91	6356	50.70	ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.429	83	2605	48.86	ug/L	97
22] 1,3,5-Trimethylbenzene	14.853	105	5941	48.00	ug/L	99
23] 1,2,4-Trimethylbenzene	15.439	105	6120	48.23	ug/L	99
24] Naphthalene	17.661	128	10001	53.22	ug/L	99
25) 2-Fluorotoluene SCAN	10.490	109	381310	4750.83	ug/L	95
28) 1,1-Dichloroethane SCAN	4.545	63	1455	35.41	ug/L #	25
30) Chloroform SCAN	6.138	83	3340	89.09	ug/L	90
31) 1,1,1-Trichloroethane ...	6.369	97	1570	50.89	ug/L #	18
32) Carbon tetrachloride SCAN	6.625	117	1665	58.62	ug/L #	39
33) Benzene SCAN	7.002	78	15596	183.55	ug/L #	67
34) 1,2-Dichloroethane SCAN	7.063	62	1715	46.78	ug/L #	43
36) Toluene-d8 SCAN	9.986	98	4833	72.96	ug/L	85
37) Toluene SCAN	10.101	91	8452	95.67	ug/L	73
38) 1,1,2-Trichloroethane ...	10.773	97	1657	83.28	ug/L #	56
40) Chlorobenzene SCAN	12.288	112	3571	65.80	ug/L #	51
42) Ethylbenzene SCAN	12.487	91	5238	52.95	ug/L	83
43) m&p-Xylene SCAN	12.686	91	8225	53.25	ug/L	89
44) o-Xylene SCAN	13.297	91	4674	58.77	ug/L	87
46) 1,3,5-Trimethylbenzene...	14.857	105	3590	47.58	ug/L	81
47) 1,2,4-Trimethylbenzene...	15.443	105	3545	45.09	ug/L #	58
48) Naphthalene SCAN	17.660	128	6622	61.07	ug/L	81

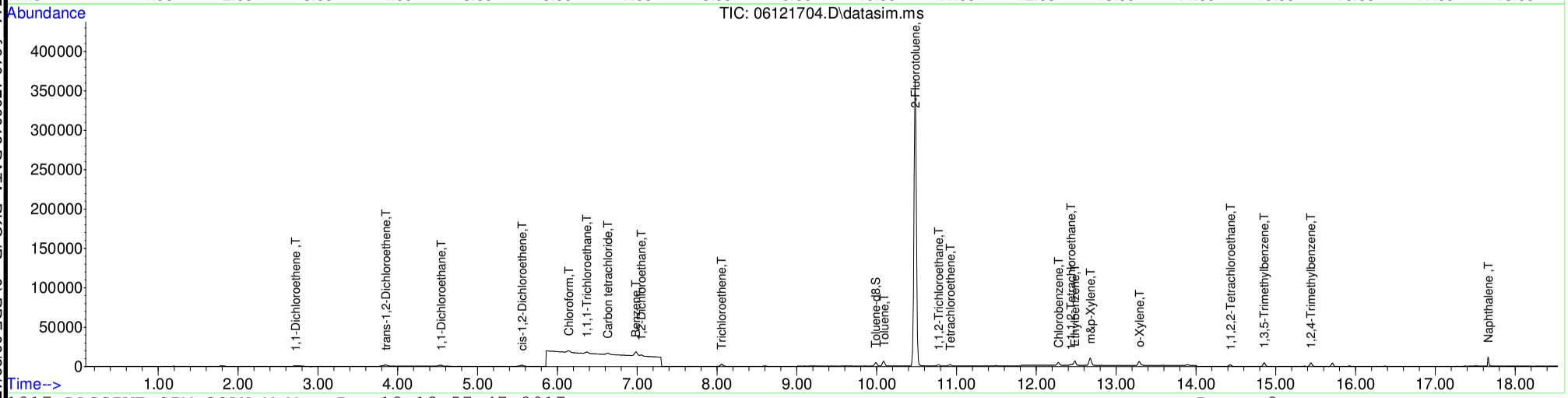
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121704.D
Acq On : 12 Jun 2017 12:43
InstName : AG5975C
Operator : RH
Sample : S17F044-CRL1
Misc : 1717062 0.05 mg/L
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 12 13:02:30 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration





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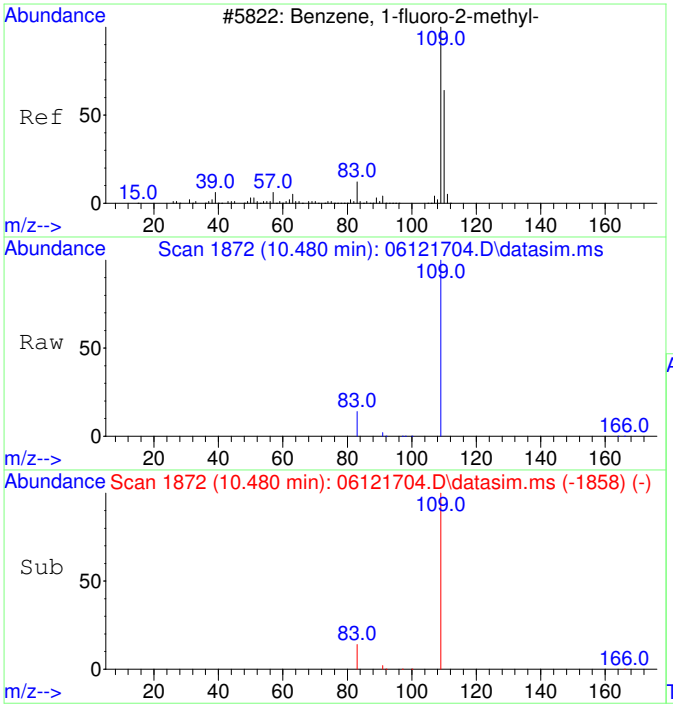
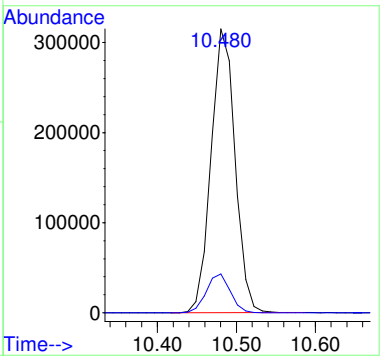
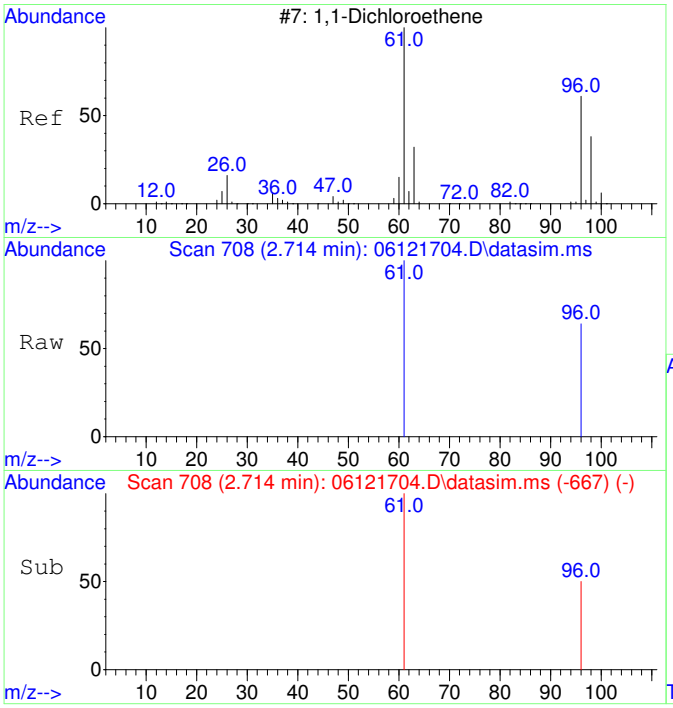


#1
2-Fluorotoluene
Concen: 5000.00 ug/L
RT: 10.480 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:109 Resp: 661990

Ion	Ratio	Lower	Upper
109	100		
83	13.5	0.0	44.4

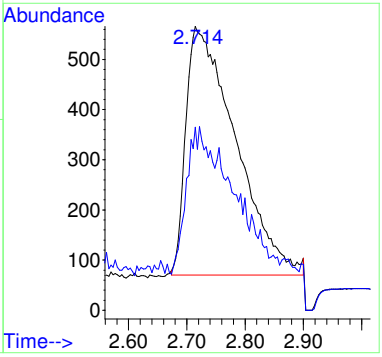


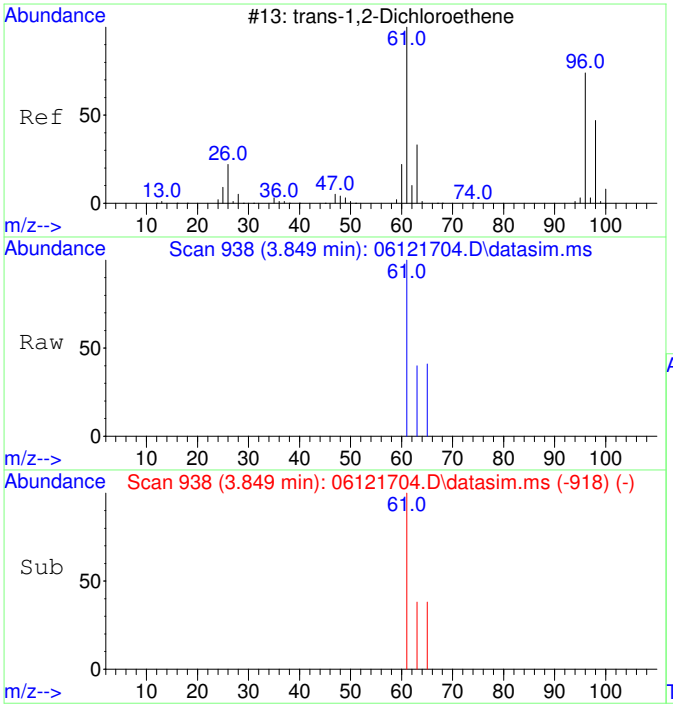


#2
1,1-Dichloroethene
Concen: 56.24 ug/L m
RT: 2.714 min Scan# 708
Delta R.T. 0.004 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 61 Resp: 2936

Ion	Ratio	Lower	Upper
61	100		
96	73.7	21.8	81.8

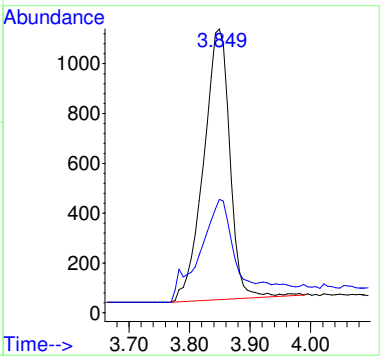


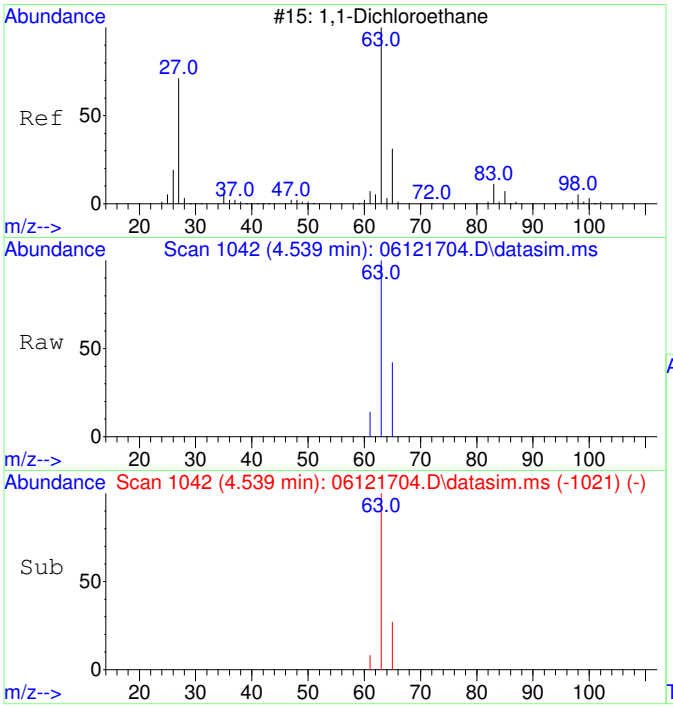


#3
trans-1,2-Dichloroethene
Concen: 57.88 ug/L
RT: 3.849 min Scan# 938
Delta R.T. -0.020 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 61 Resp: 3275

Ion	Ratio	Lower	Upper
61	100		
63	24.2	1.0	61.0

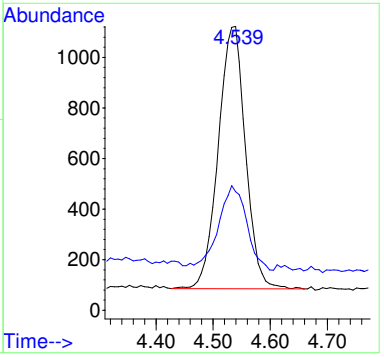


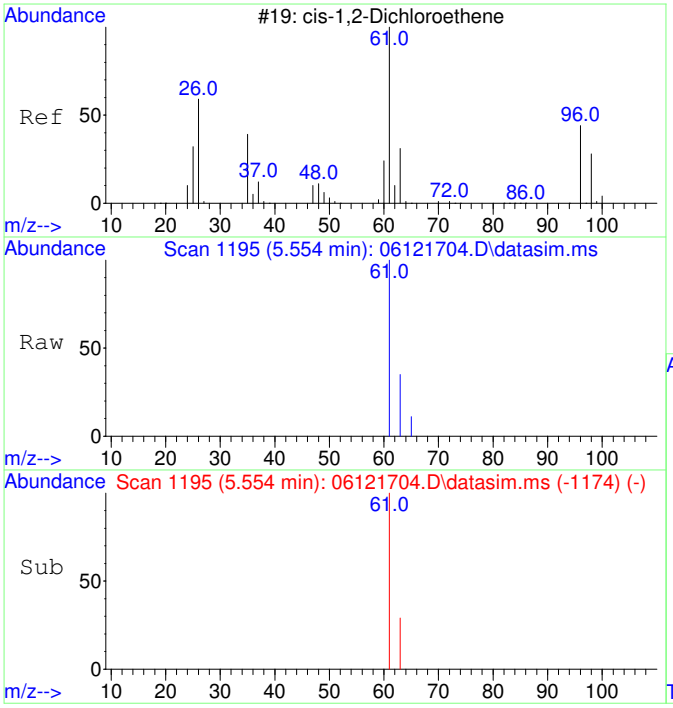


#4
1,1-Dichloroethane
Concen: 56.45 ug/L
RT: 4.539 min Scan# 1042
Delta R.T. -0.013 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 63 Resp: 3443

Ion	Ratio	Lower	Upper
63	100		
65	31.0	0.4	60.4

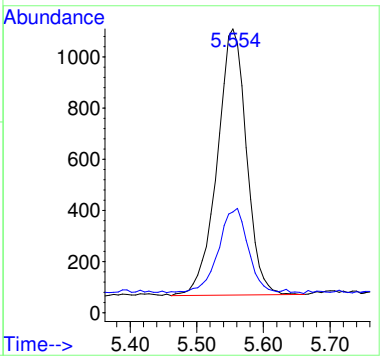


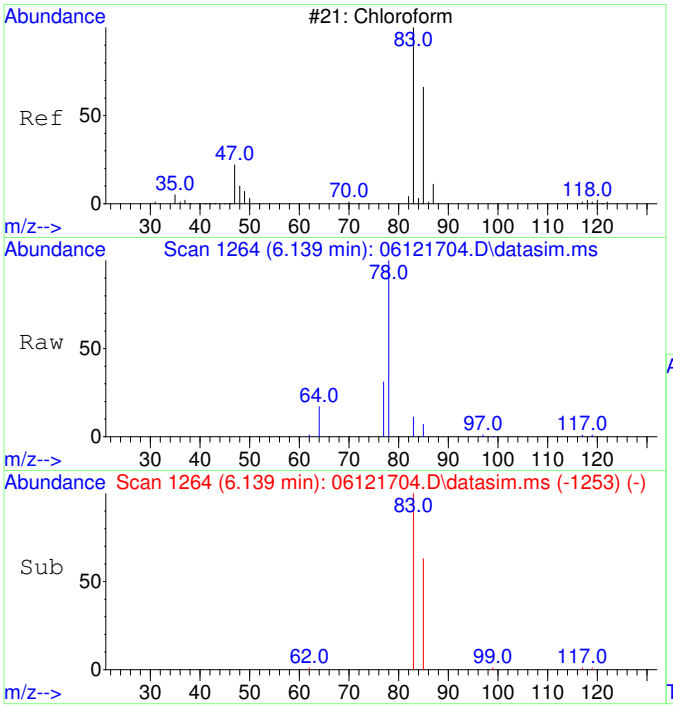


#5
cis-1,2-Dichloroethene
Concen: 54.51 ug/L
RT: 5.554 min Scan# 1195
Delta R.T. -0.013 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 61 Resp: 3178

Ion	Ratio	Lower	Upper
61	100		
63	31.5	0.9	60.9

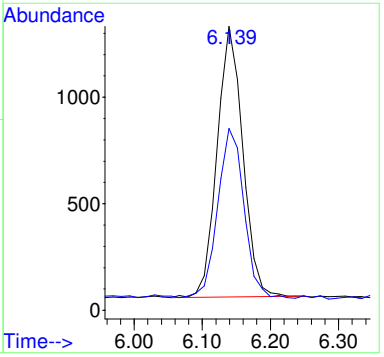


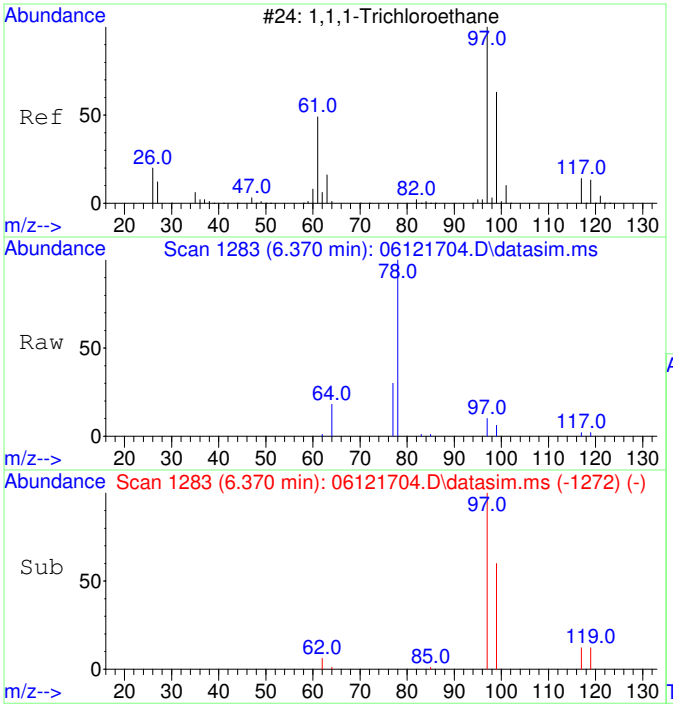


#6
Chloroform
Concen: 58.74 ug/L
RT: 6.139 min Scan# 1264
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 83 Resp: 3314

Ion	Ratio	Lower	Upper
83	100		
85	62.6	33.7	93.7

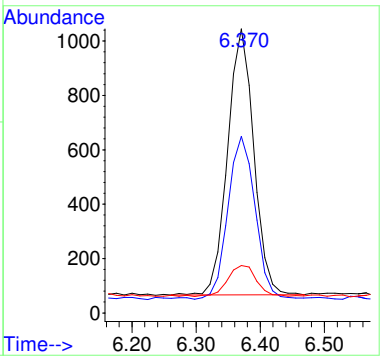


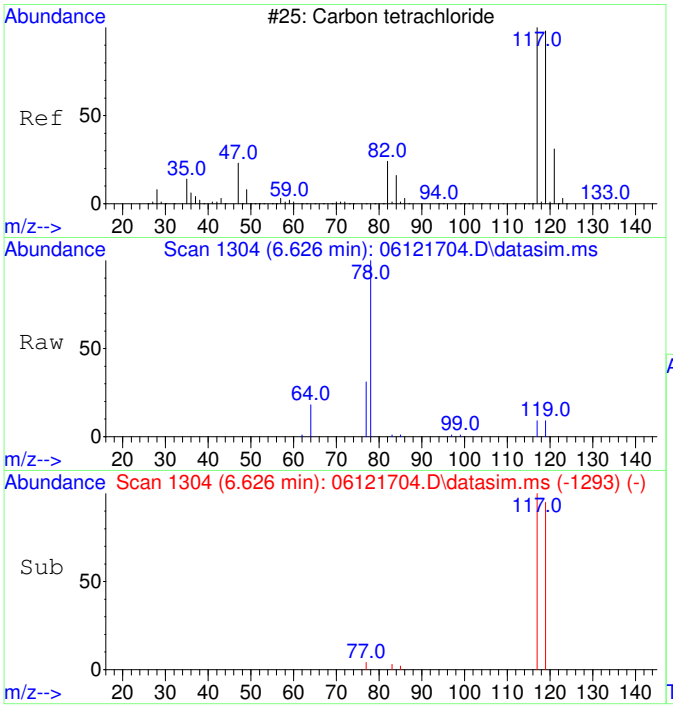


#7
1,1,1-Trichloroethane
Concen: 53.44 ug/L
RT: 6.370 min Scan# 1283
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 2769

Ion	Ratio	Lower	Upper
97	100		
99	63.0	34.3	94.3
117	12.6	0.0	42.3

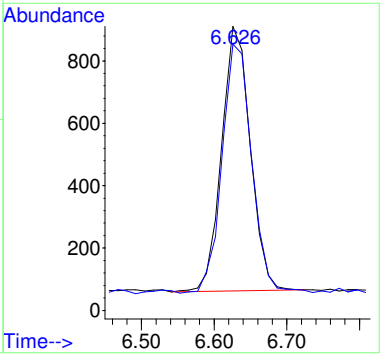


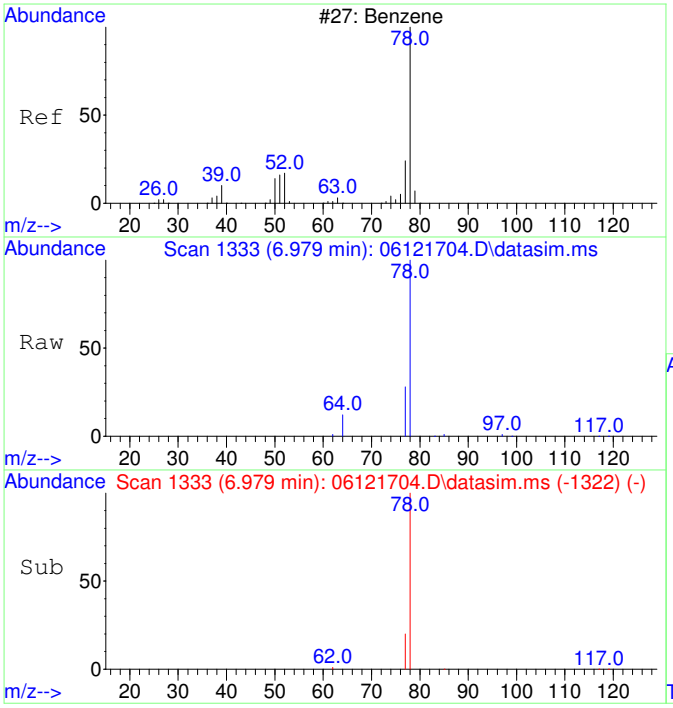


#8
Carbon tetrachloride
Concen: 52.08 ug/L
RT: 6.626 min Scan# 1304
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:117 Resp: 2328

Ion	Ratio	Lower	Upper
117	100		
119	97.3	65.5	125.5

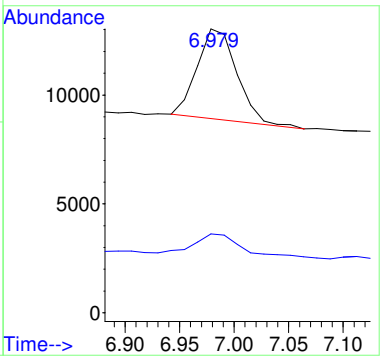


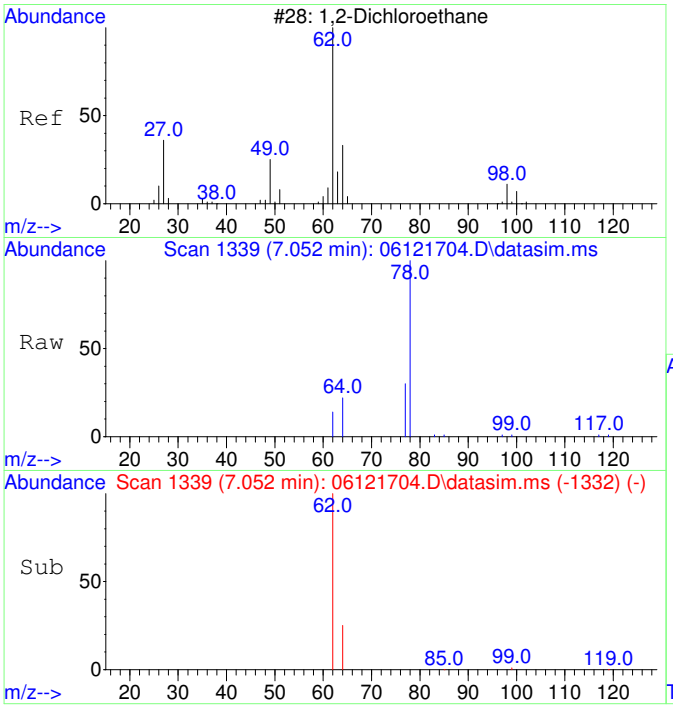


#9
Benzene
Concen: 78.54 ug/L
RT: 6.979 min Scan# 1333
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 78 Resp: 10319

Ion	Ratio	Lower	Upper
78	100		
77	26.3	0.0	53.0

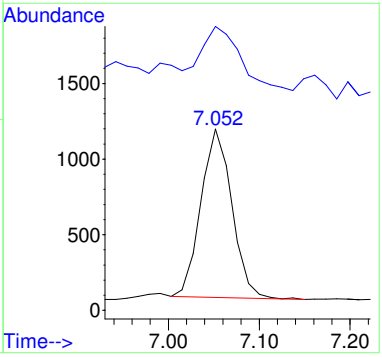


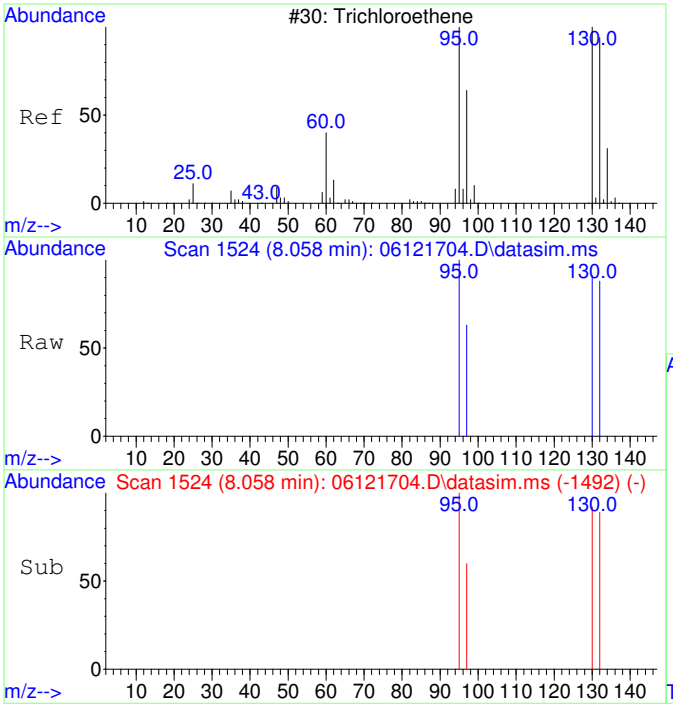


#10
1,2-Dichloroethane
Concen: 53.99 ug/L
RT: 7.052 min Scan# 1339
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 62 Resp: 2628

Ion	Ratio	Lower	Upper
62	100		
64	30.7	2.6	62.6

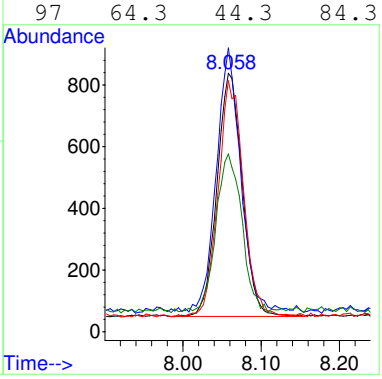


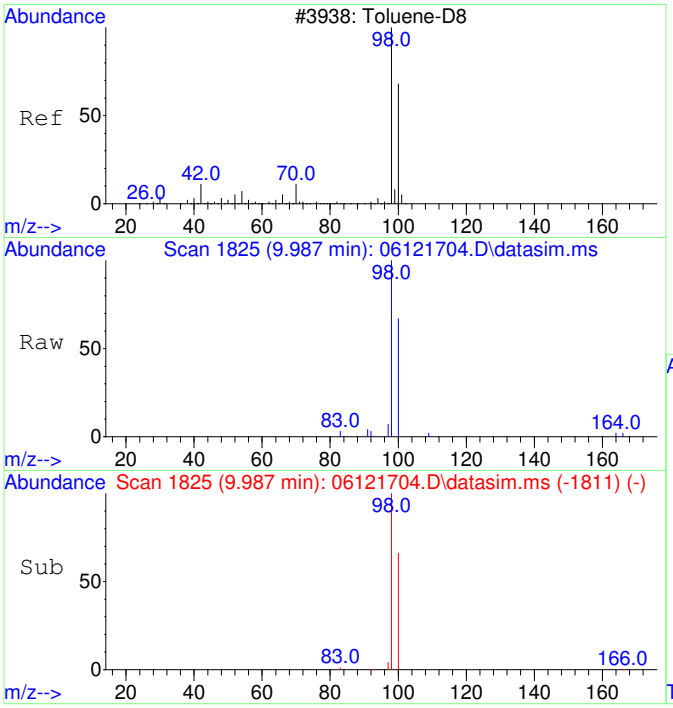


#11
Trichloroethene
Concen: 52.32 ug/L
RT: 8.058 min Scan# 1524
Delta R.T. -0.005 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:130 Resp: 1768

Ion	Ratio	Lower	Upper
130	100		
95	103.3	69.8	129.8
132	96.3	76.4	116.4
97	64.3	44.3	84.3

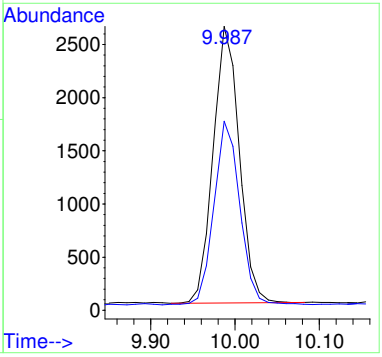


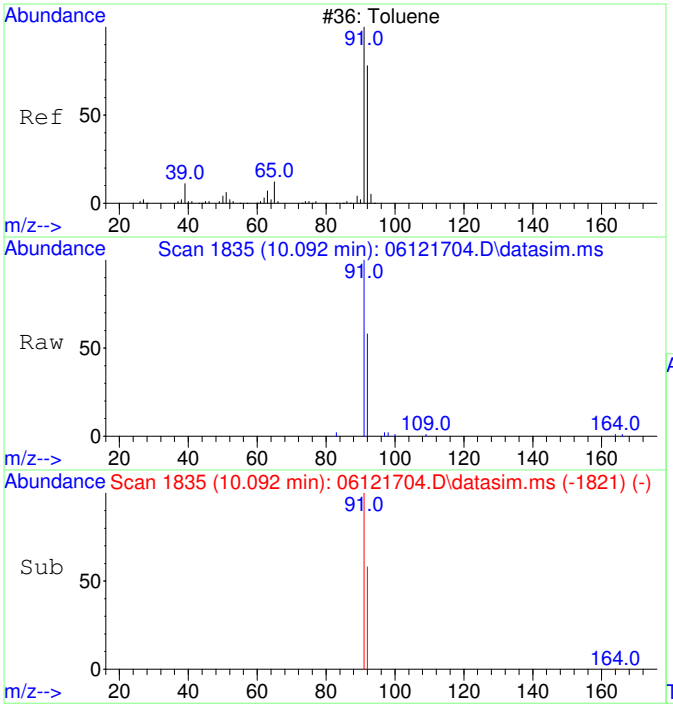


#12
Toluene-d8
Concen: 51.83 ug/L
RT: 9.987 min Scan# 1825
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 98 Resp: 5619

Ion	Ratio	Lower	Upper
98	100		
100	65.1	34.2	94.2

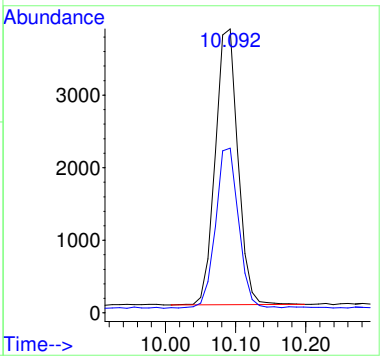


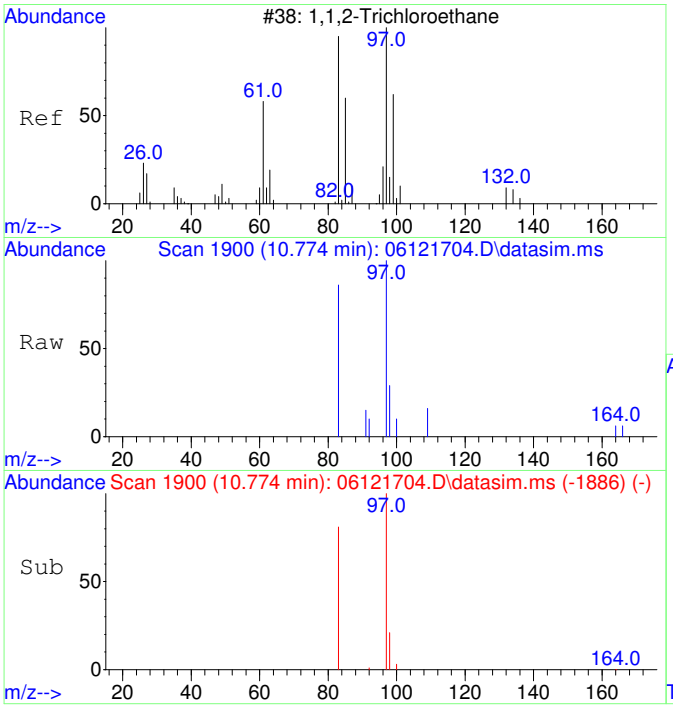


#13
Toluene
Concen: 59.18 ug/L
RT: 10.092 min Scan# 1835
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 8497

Ion	Ratio	Lower	Upper
91	100		
92	58.0	28.4	88.4

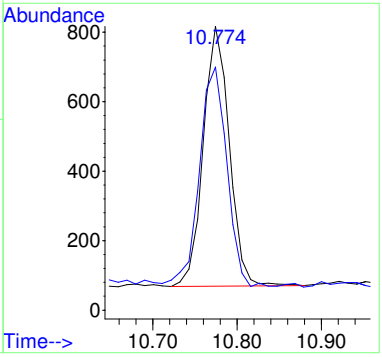


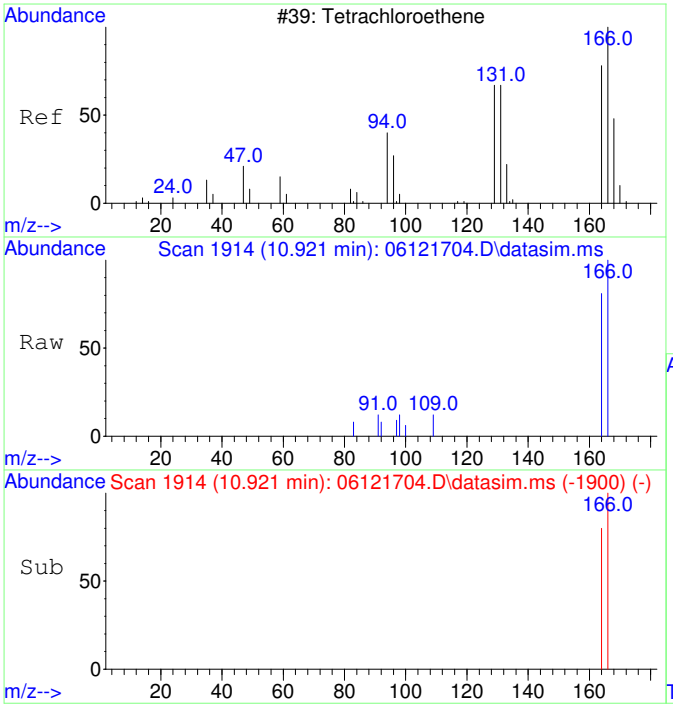


#14
1,1,2-Trichloroethane
Concen: 52.25 ug/L
RT: 10.774 min Scan# 1900
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 1604

Ion	Ratio	Lower	Upper
97	100		
83	87.1	54.5	114.5

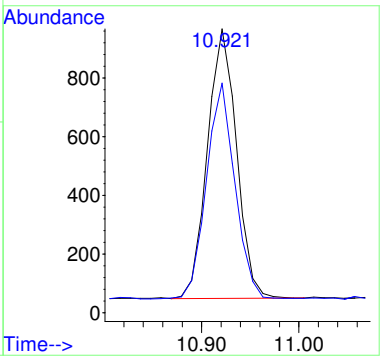


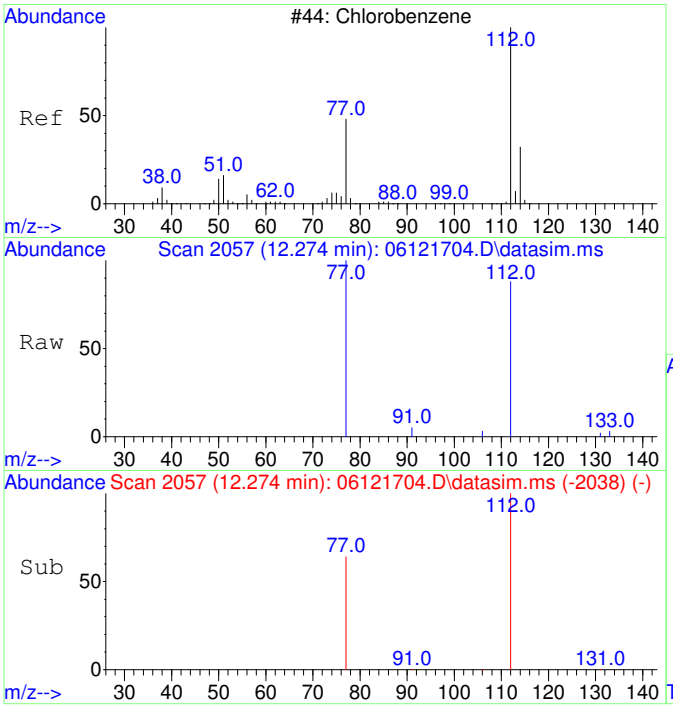


#15
Tetrachloroethene
Concen: 51.91 ug/L
RT: 10.921 min Scan# 1914
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:166 Resp: 1910

Ion	Ratio	Lower	Upper
166	100		
164	77.2	48.1	108.1

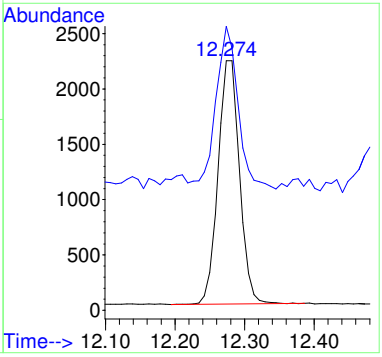


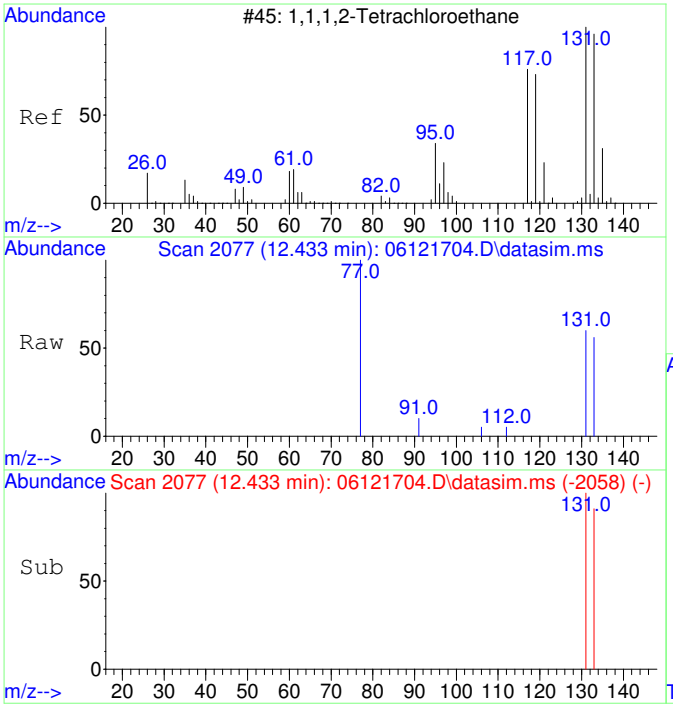


#16
Chlorobenzene
Concen: 51.73 ug/L
RT: 12.274 min Scan# 2057
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:112 Resp: 4717

Ion	Ratio	Lower	Upper
112	100		
77	63.2	28.9	88.9

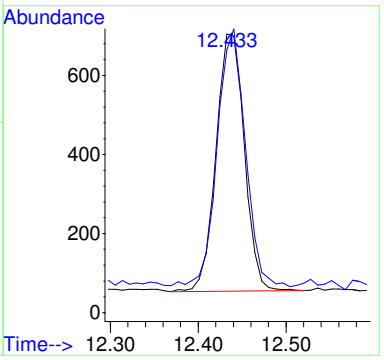


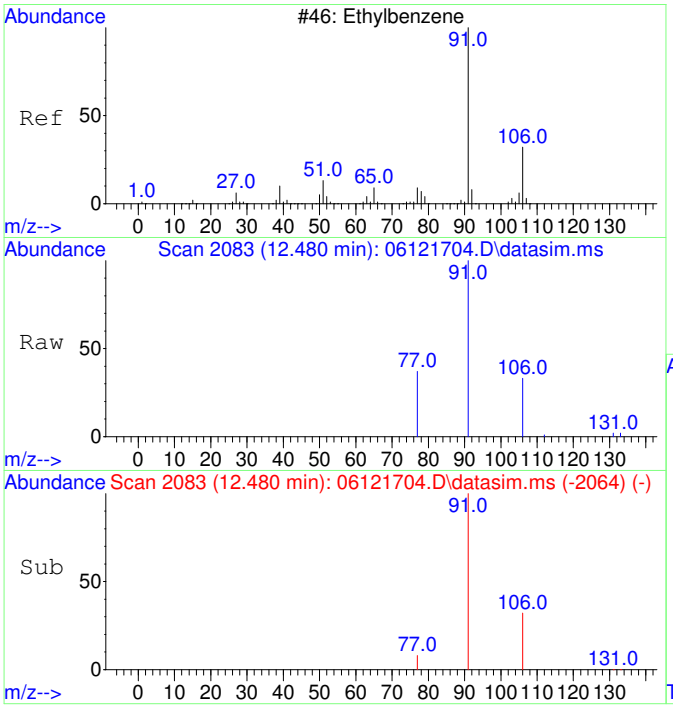


#17
1,1,1,2-Tetrachloroethane
Concen: 48.68 ug/L
RT: 12.433 min Scan# 2077
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:131 Resp: 1457

Ion	Ratio	Lower	Upper
131	100		
133	97.5	65.2	125.2

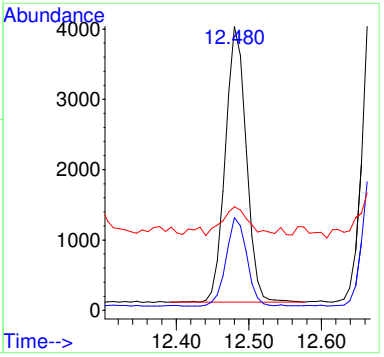


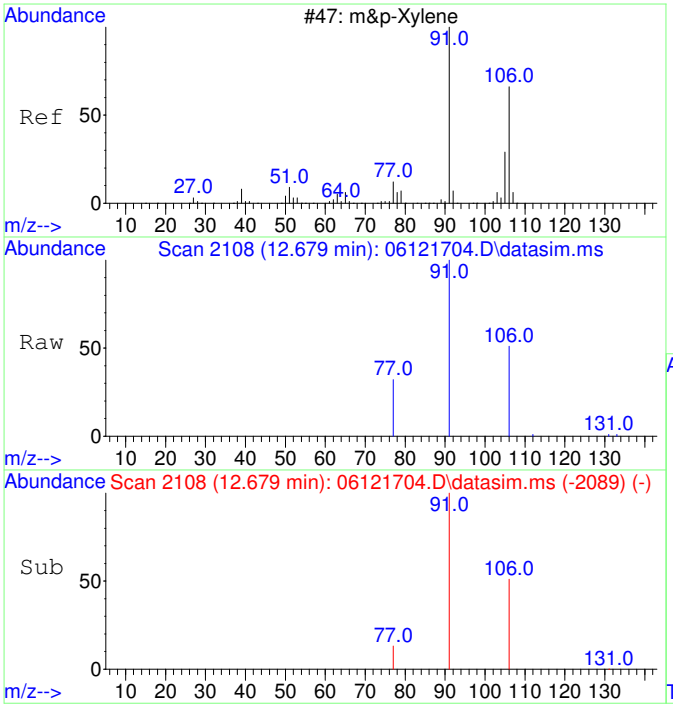


#18
Ethylbenzene
Concen: 50.64 ug/L
RT: 12.480 min Scan# 2083
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 7825

Ion	Ratio	Lower	Upper
91	100		
106	31.7	1.2	61.2
77	13.6	0.0	38.6

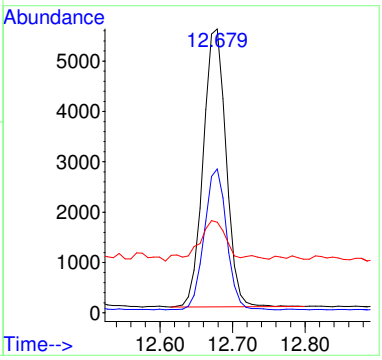


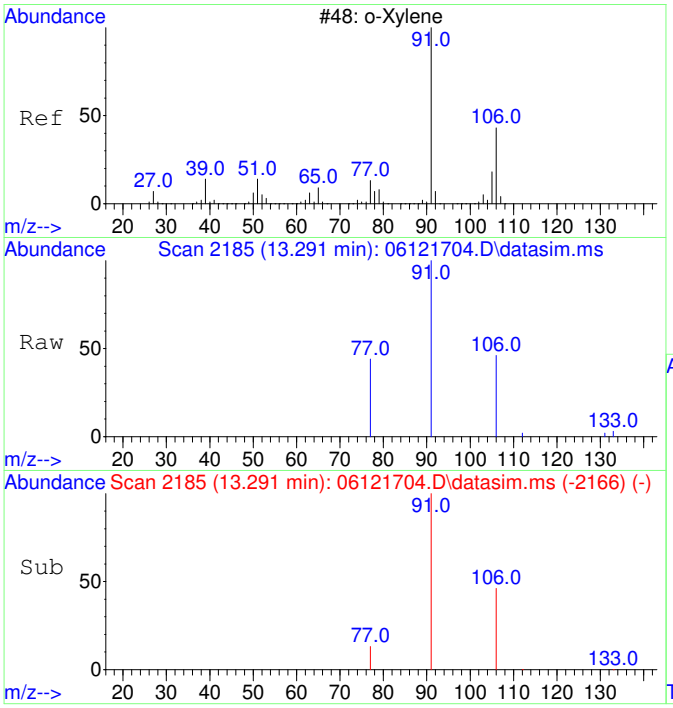


#19
m&p-Xylene
Concen: 99.80 ug/L
RT: 12.679 min Scan# 2108
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 12097

Ion	Ratio	Lower	Upper
91	100		
106	49.5	18.4	78.4
77	15.6	0.0	43.1

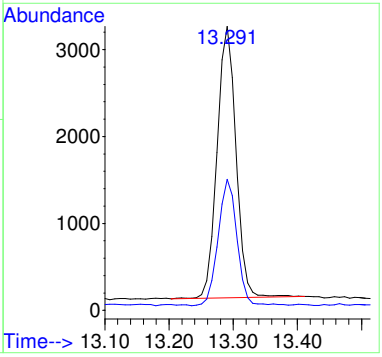


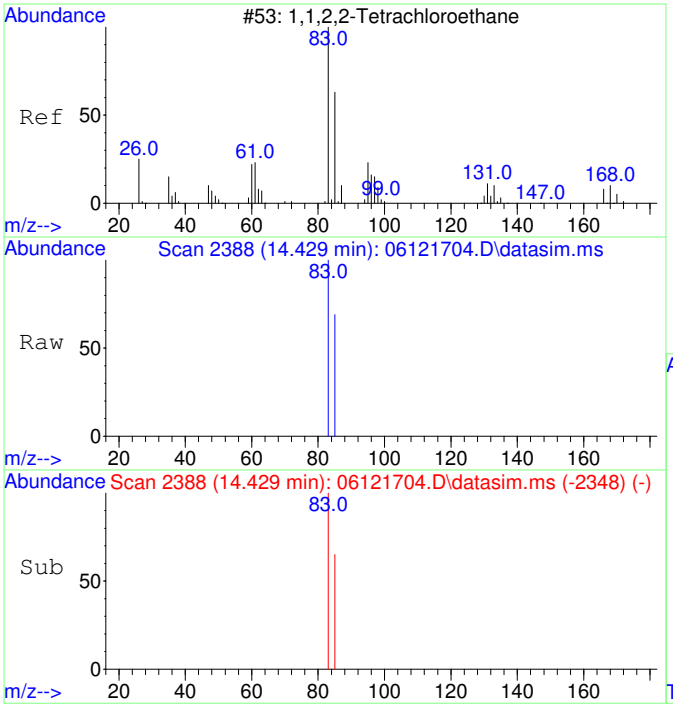


#20
o-Xylene
Concen: 50.70 ug/L
RT: 13.291 min Scan# 2185
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 6356

Ion	Ratio	Lower	Upper
91	100		
106	45.7	16.0	76.0

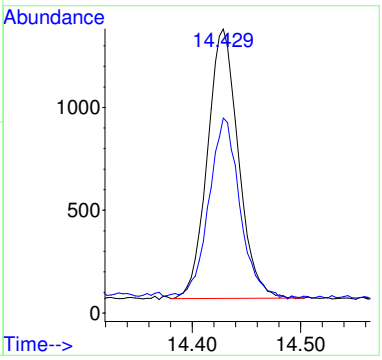


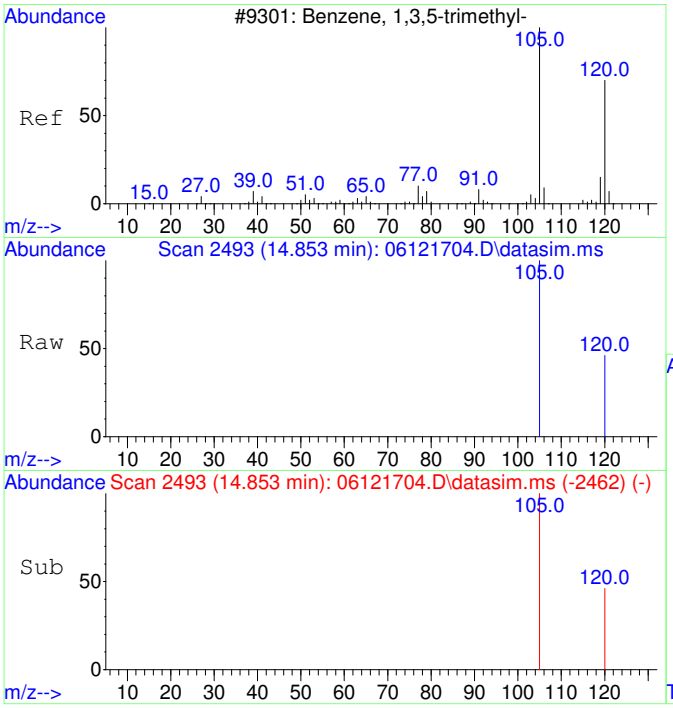


#21
1,1,2,2-Tetrachloroethane
Concen: 48.86 ug/L
RT: 14.429 min Scan# 2388
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 83 Resp: 2605

Ion	Ratio	Lower	Upper
83	100		
85	66.3	34.1	94.1

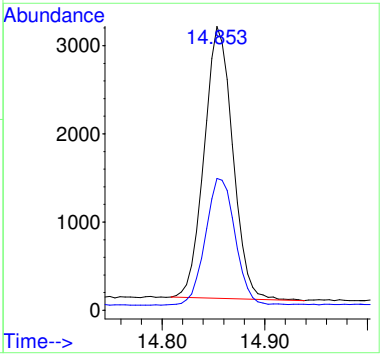


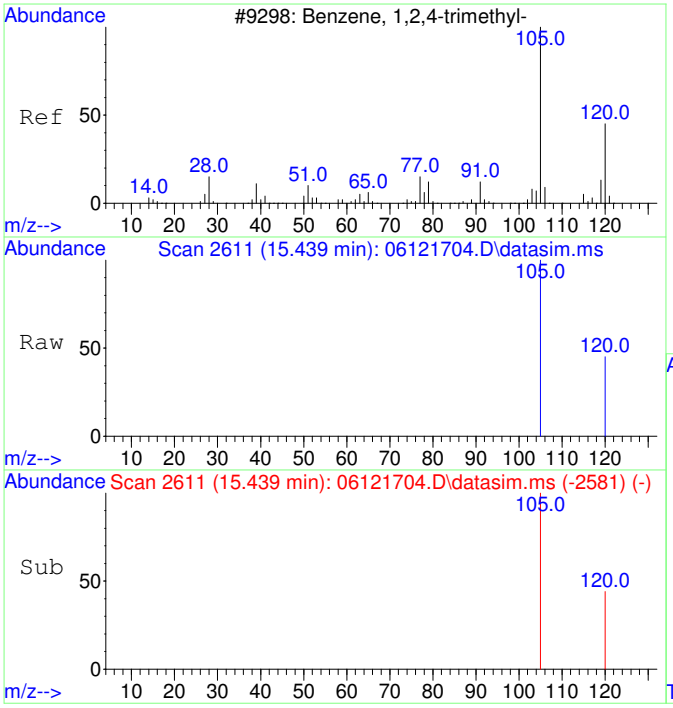


#22
1,3,5-Trimethylbenzene
Concen: 48.00 ug/L
RT: 14.853 min Scan# 2493
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 5941

Ion	Ratio	Lower	Upper
105	100		
120	48.6	18.0	78.0

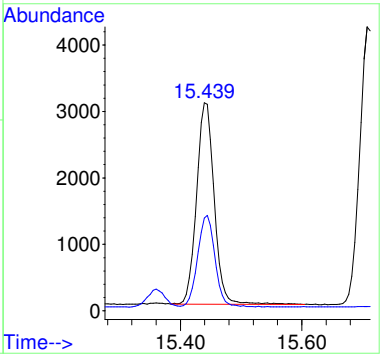


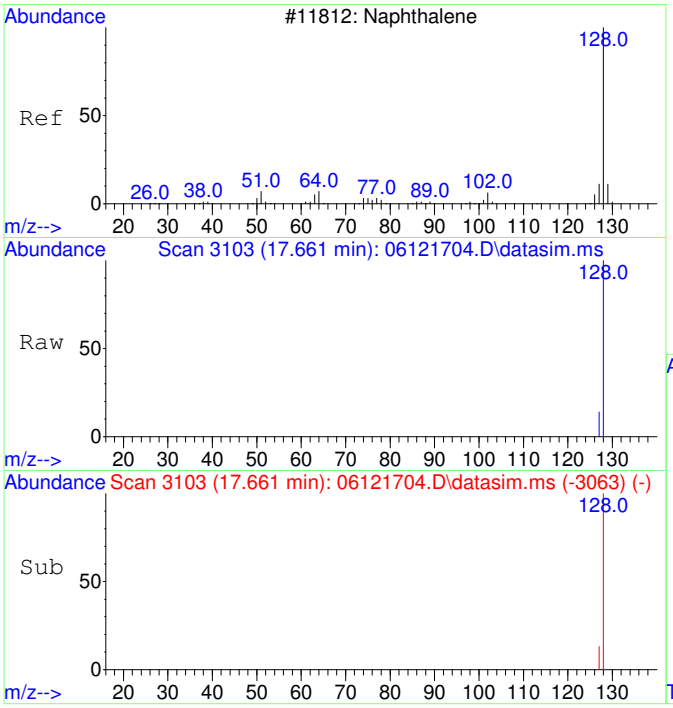


#23
1,2,4-Trimethylbenzene
Concen: 48.23 ug/L
RT: 15.439 min Scan# 2611
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 6120

Ion	Ratio	Lower	Upper
105	100		
120	43.8	14.4	74.4

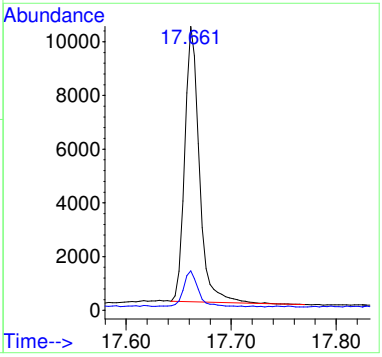


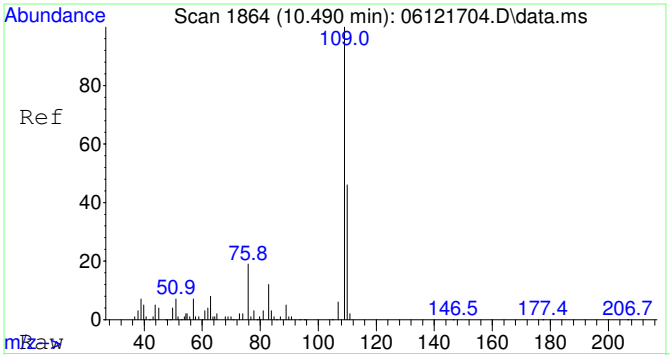


#24
Naphthalene
Concen: 53.22 ug/L
RT: 17.661 min Scan# 3103
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:128 Resp: 10001

Ion	Ratio	Lower	Upper
128	100		
127	13.2	0.0	42.7

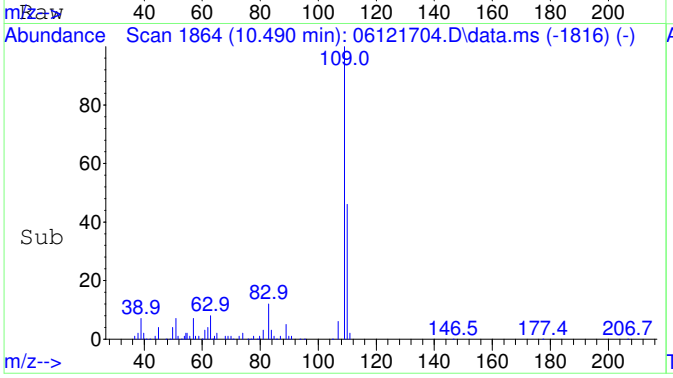


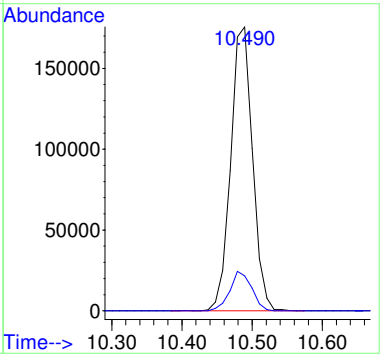


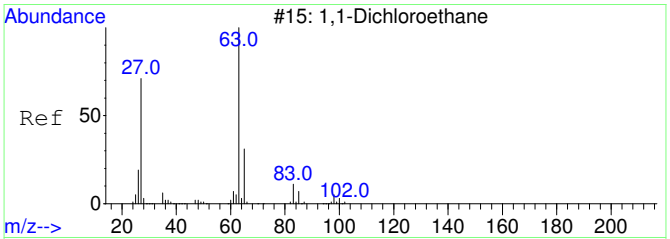
#25
2-Fluorotoluene SCAN
Concen: 4750.83 ug/L
RT: 10.490 min Scan# 1864
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:109 Resp: 381310

Ion	Ratio	Lower	Upper
109	100		
83	13.9	0.0	46.1



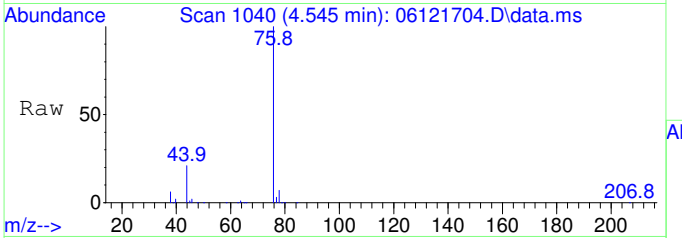


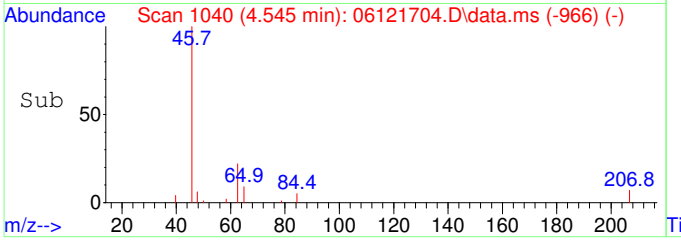


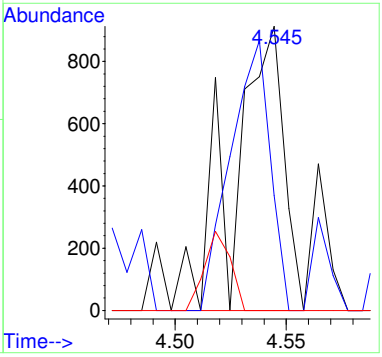
#28
1,1-Dichloroethane SCAN
Concen: 35.41 ug/L
RT: 4.545 min Scan# 1040
Delta R.T. -0.007 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

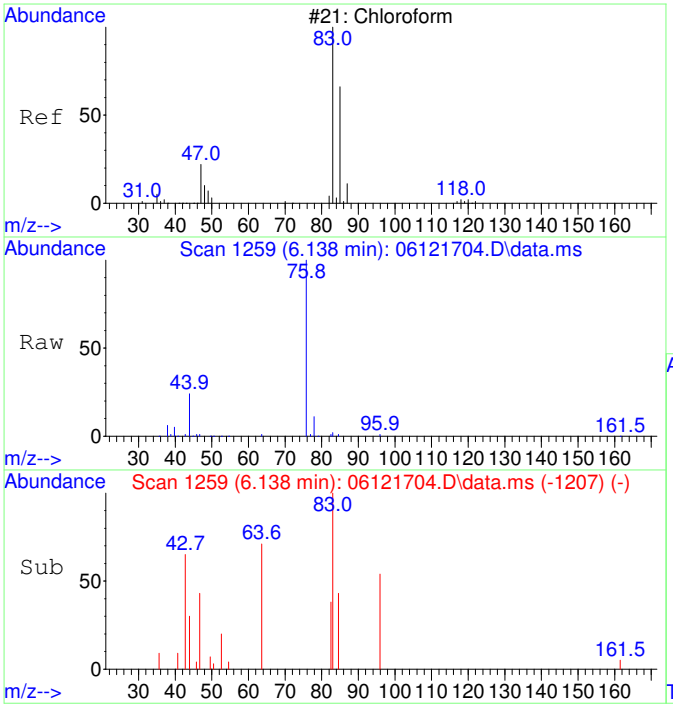
Tgt Ion: 63 Resp: 1455

Ion	Ratio	Lower	Upper
63	100		
65	74.5	1.1	61.1#
83	0.0	0.0	31.5





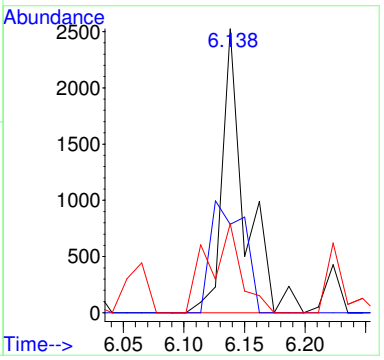


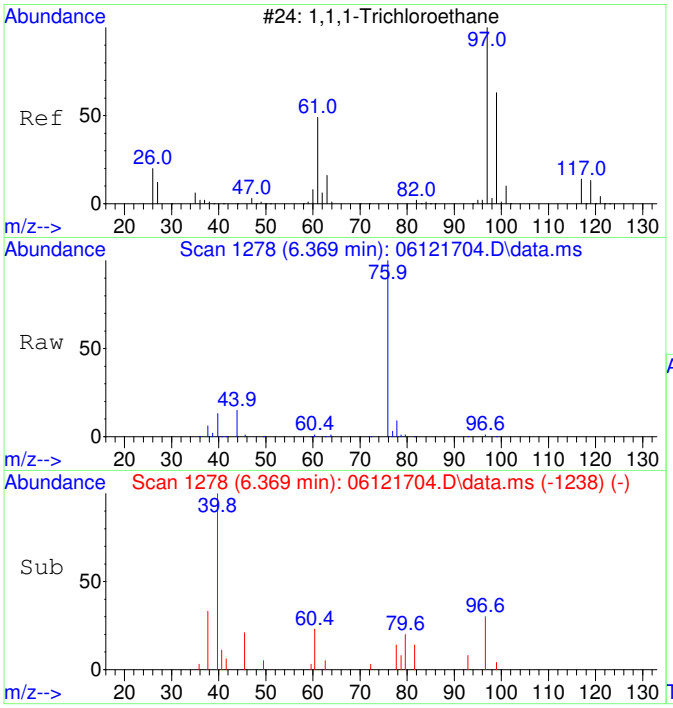


#30
Chloroform SCAN
Concen: 89.09 ug/L
RT: 6.138 min Scan# 1259
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 83 Resp: 3340

Ion	Ratio	Lower	Upper
83	100		
85	57.6	31.2	91.2
47	44.5	3.2	63.2

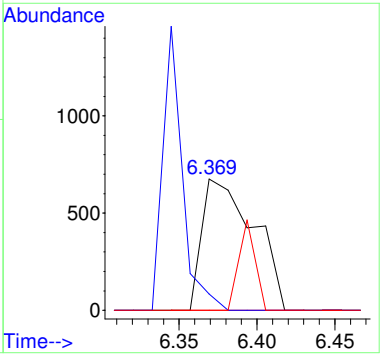


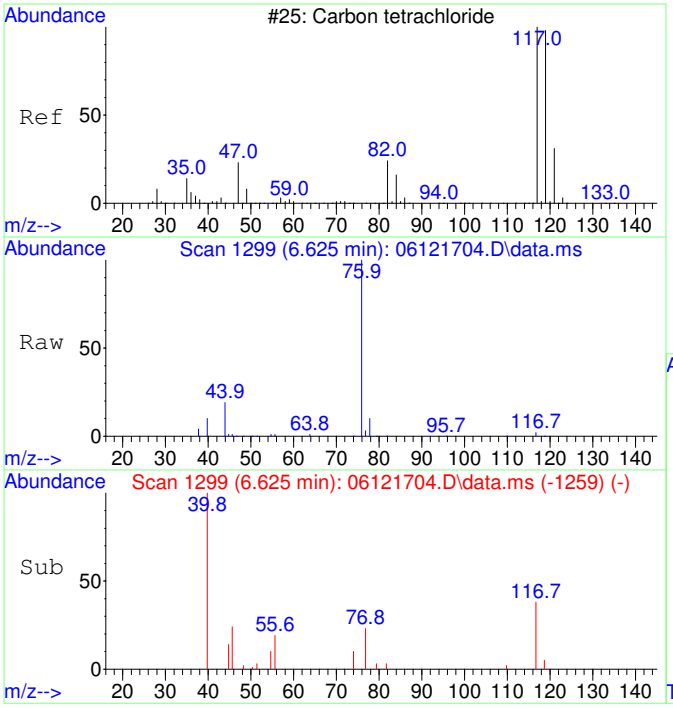


#31
1,1,1-Trichloroethane SCAN
Concen: 50.89 ug/L
RT: 6.369 min Scan# 1278
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 1570

Ion	Ratio	Lower	Upper
97	100		
99	0.0	38.7	98.7#
61	0.0	27.8	87.8#

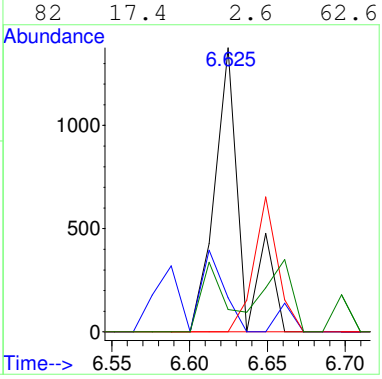


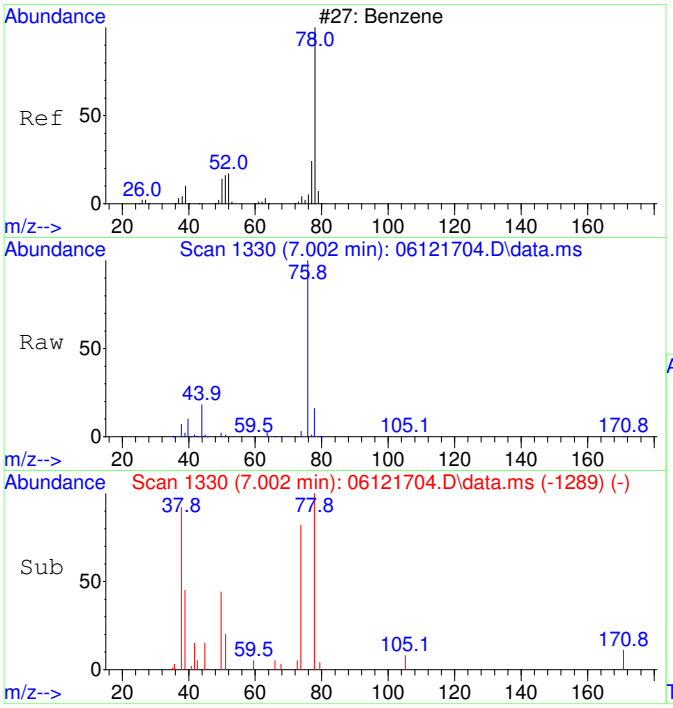


#32
Carbon tetrachloride SCAN
Concen: 58.62 ug/L
RT: 6.625 min Scan# 1299
Delta R.T. -0.012 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:117 Resp: 1665

Ion	Ratio	Lower	Upper
117	100		
119	24.6	66.8	126.8#
121	0.0	0.4	60.4#
82	17.4	2.6	62.6

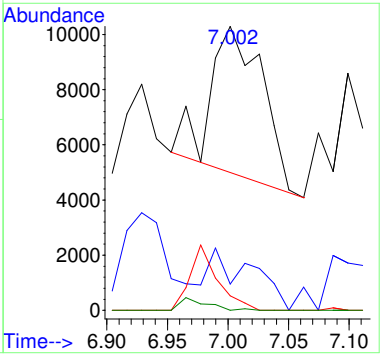


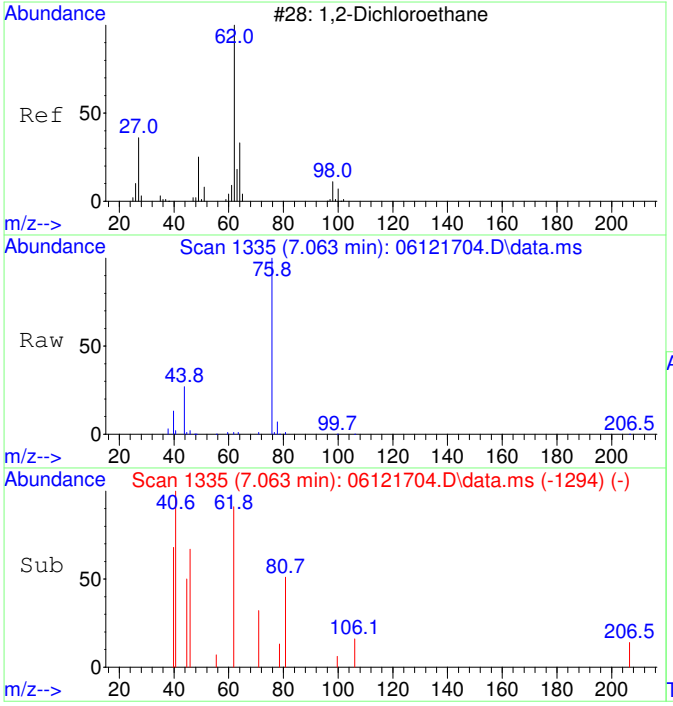


#33
Benzene SCAN
Concen: 183.55 ug/L
RT: 7.002 min Scan# 1330
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 78 Resp: 15596

Ion	Ratio	Lower	Upper
78	100		
77	21.8	0.0	55.2
51	0.0	0.0	52.4
52	0.0	0.0	53.3

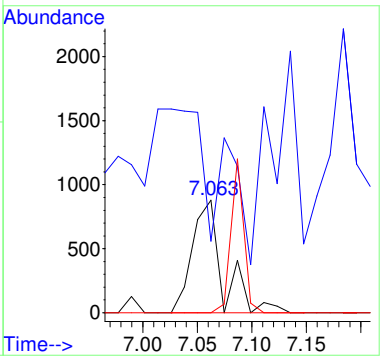


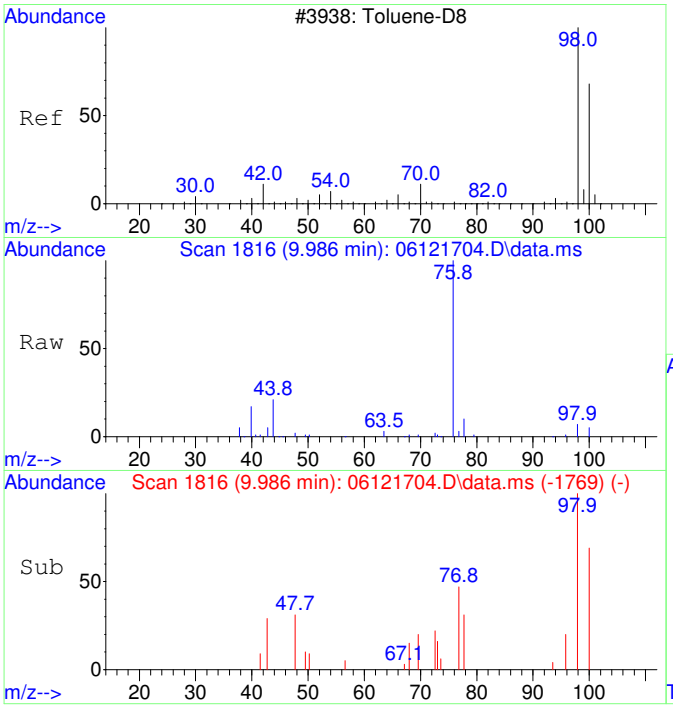


#34
1,2-Dichloroethane SCAN
Concen: 46.78 ug/L
RT: 7.063 min Scan# 1335
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 62 Resp: 1715

Ion	Ratio	Lower	Upper
62	100		
64	0.0	7.4	67.4#
49	0.0	0.0	54.8

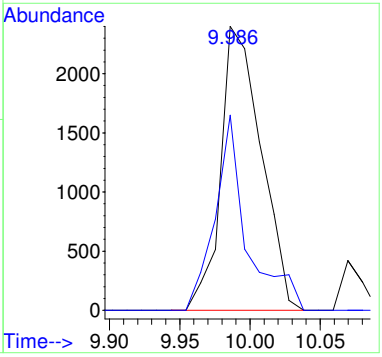


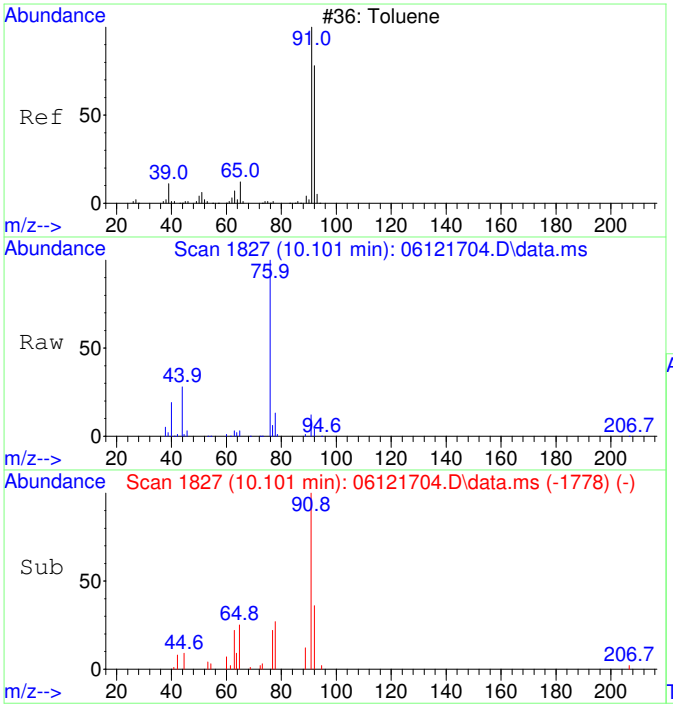


#36
Toluene-d8 SCAN
Concen: 72.96 ug/L
RT: 9.986 min Scan# 1816
Delta R.T. -0.011 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 98 Resp: 4833

Ion	Ratio	Lower	Upper
98	100		
100	54.3	36.2	96.2

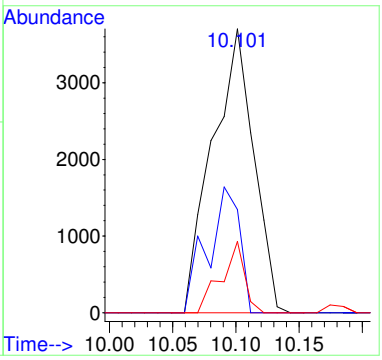


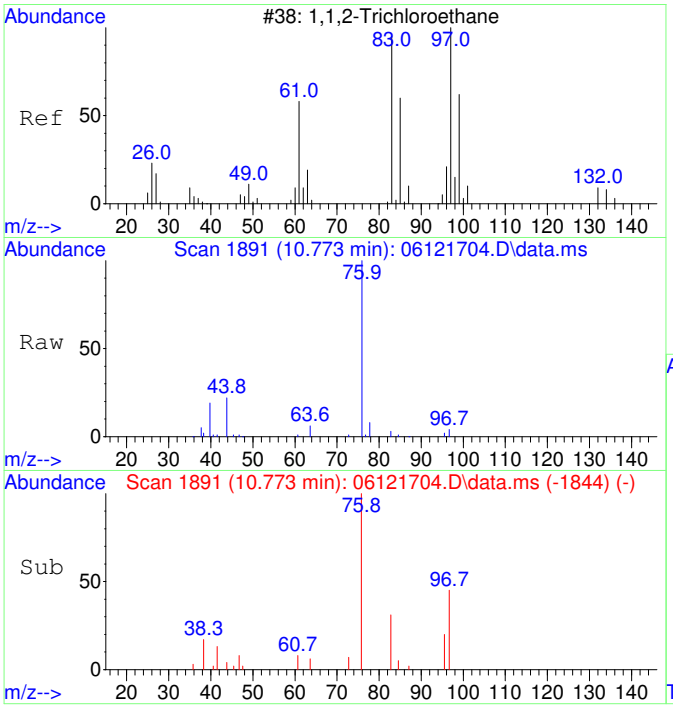


#37
Toluene SCAN
Concen: 95.67 ug/L
RT: 10.101 min Scan# 1827
Delta R.T. 0.010 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 8452

Ion	Ratio	Lower	Upper
91	100		
92	34.1	29.2	89.2
65	14.2	0.0	44.3

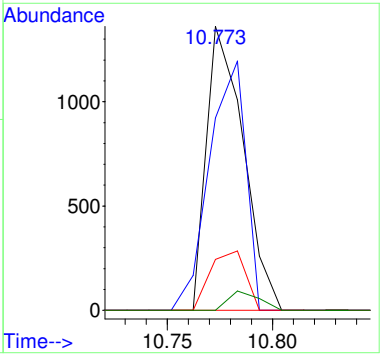


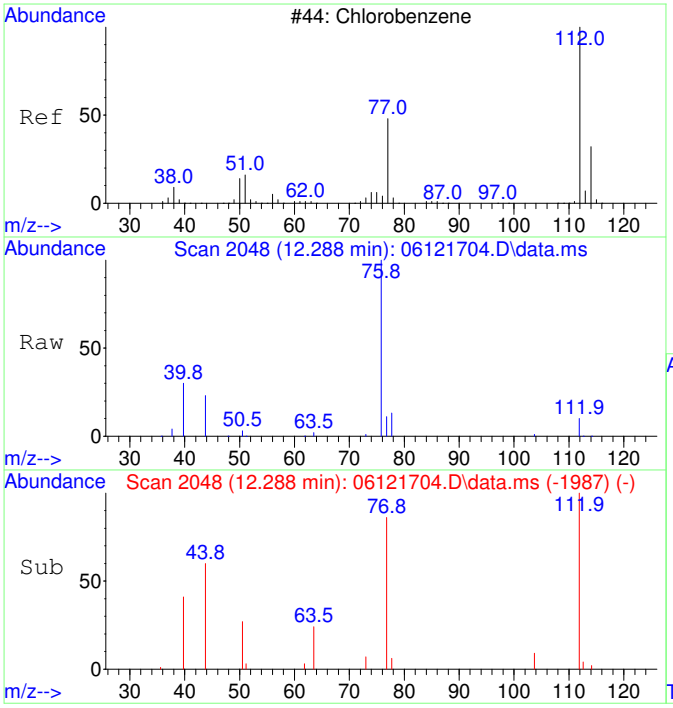


#38
1,1,2-Trichloroethane SCAN
Concen: 83.28 ug/L
RT: 10.773 min Scan# 1891
Delta R.T. -0.011 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 97 Resp: 1657

Ion	Ratio	Lower	Upper
97	100		
83	86.8	57.8	117.8
61	20.0	48.6	108.6#
99	5.7	32.7	92.7#

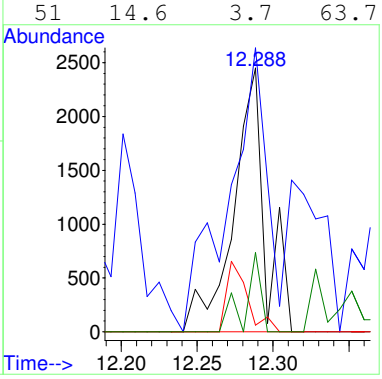


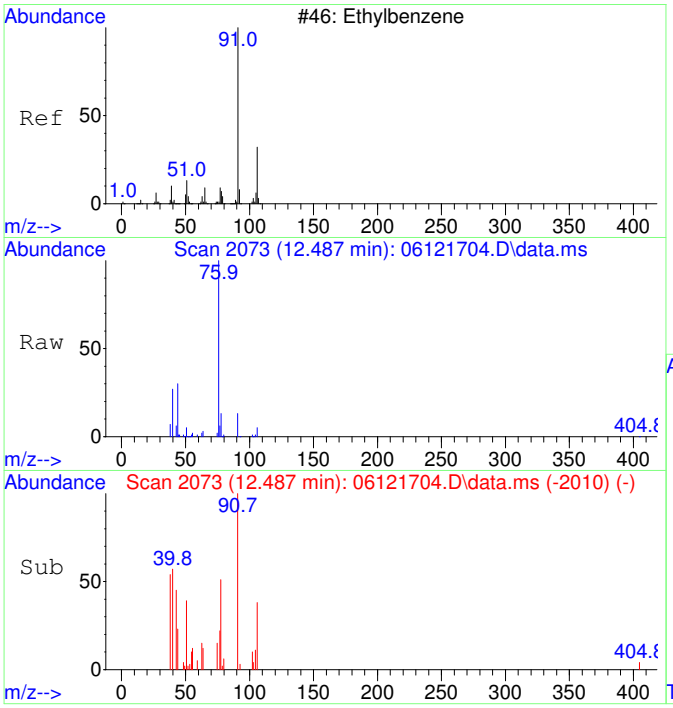


#40
Chlorobenzene SCAN
Concen: 65.80 ug/L
RT: 12.288 min Scan# 2048
Delta R.T. 0.008 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:112 Resp: 3571

Ion	Ratio	Lower	Upper
112	100		
77	118.6	35.1	95.1#
114	17.5	2.6	62.6
51	14.6	3.7	63.7

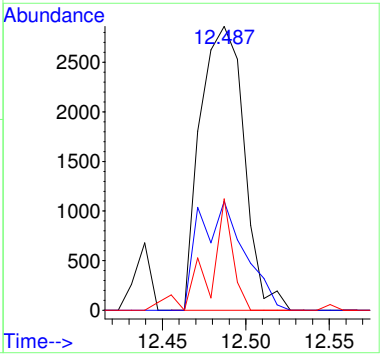


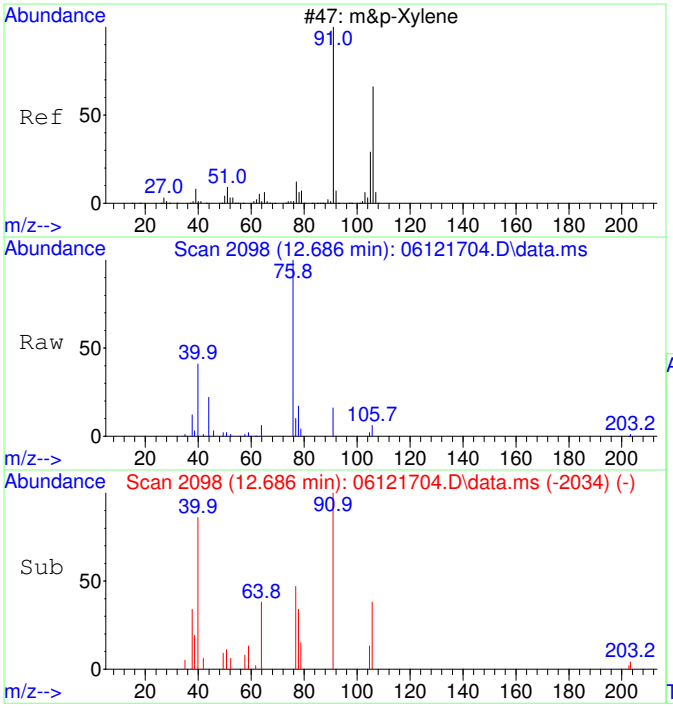


#42
Ethylbenzene SCAN
Concen: 52.95 ug/L
RT: 12.487 min Scan# 2073
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 5238

Ion	Ratio	Lower	Upper
91	100		
106	39.9	0.0	59.8
51	20.9	0.0	45.5

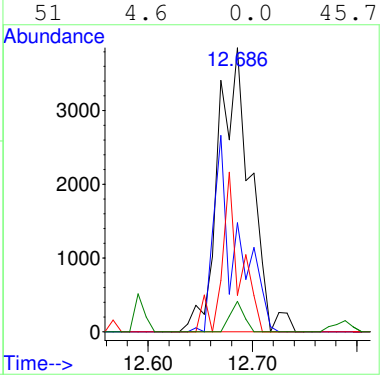


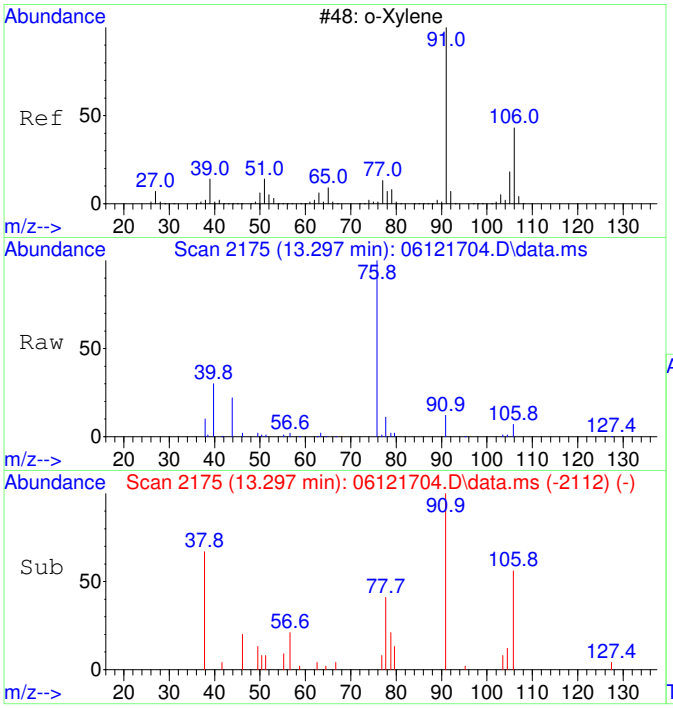


#43
m&p-Xylene SCAN
Concen: 53.25 ug/L
RT: 12.686 min Scan# 2098
Delta R.T. 0.008 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 8225

Ion	Ratio	Lower	Upper
91	100		
106	49.6	18.5	78.5
105	31.2	0.0	51.3
51	4.6	0.0	45.7

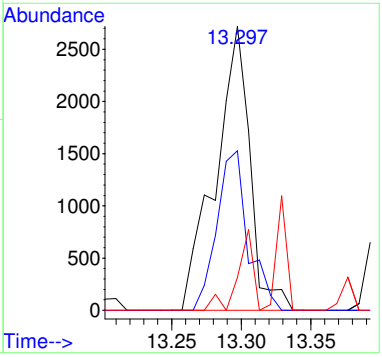


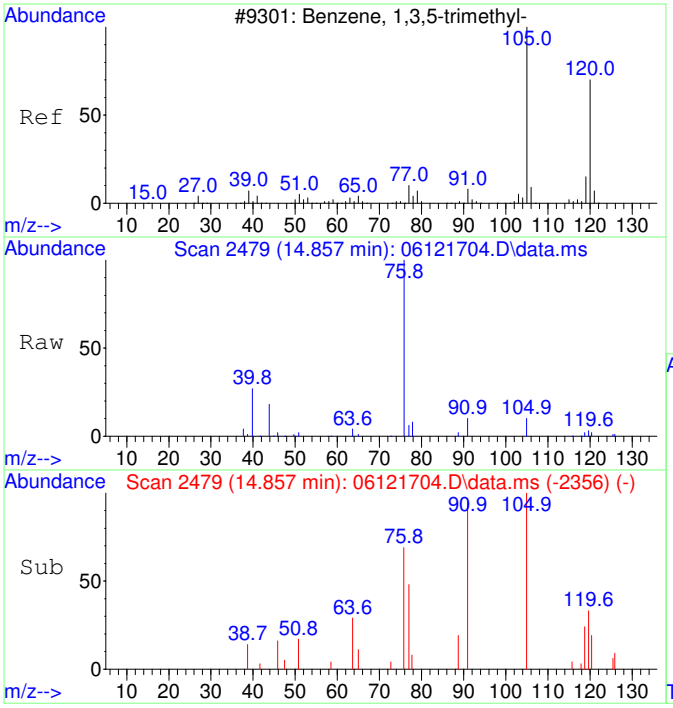


#44
o-Xylene SCAN
Concen: 58.77 ug/L
RT: 13.297 min Scan# 2175
Delta R.T. -0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion: 91 Resp: 4674

Ion	Ratio	Lower	Upper
91	100		
106	50.9	15.5	75.5
105	12.6	0.0	54.1

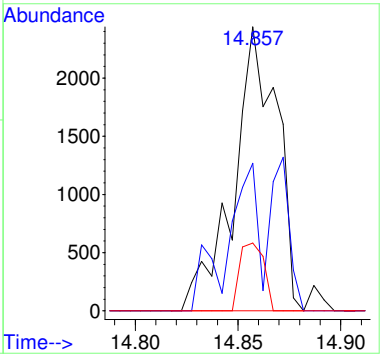


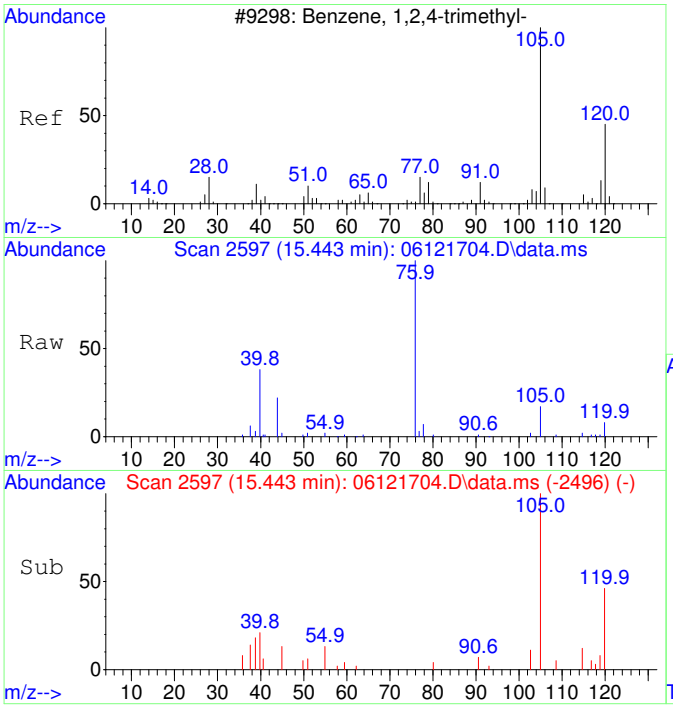


#46
1,3,5-Trimethylbenzene SCAN
Concen: 47.58 ug/L
RT: 14.857 min Scan# 2479
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 3590

Ion	Ratio	Lower	Upper
105	100		
120	31.8	17.3	77.3
119	13.3	0.0	42.7

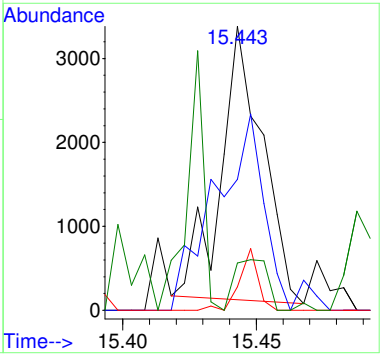


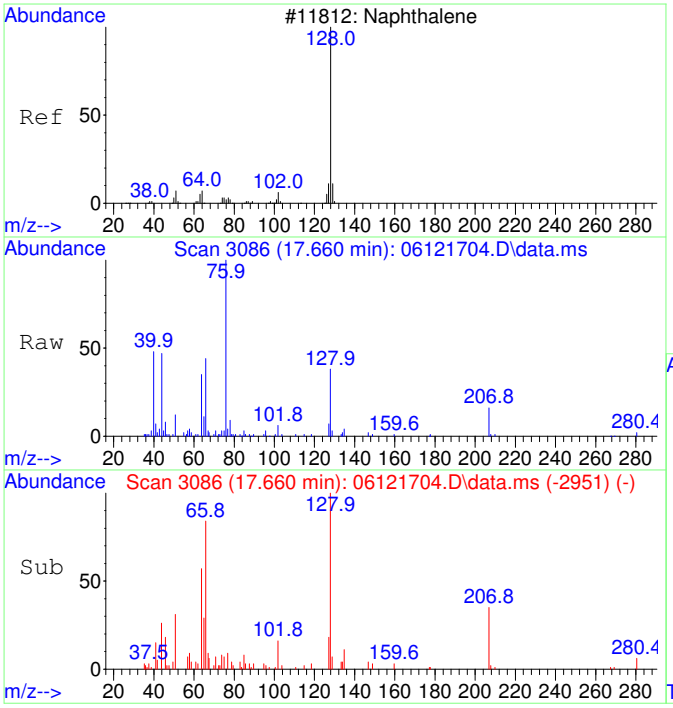


#47
1,2,4-Trimethylbenzene SCAN
Concen: 45.09 ug/L
RT: 15.443 min Scan# 2597
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:105 Resp: 3545

Ion	Ratio	Lower	Upper
105	100		
120	83.5	12.9	72.9#
119	9.9	0.0	40.5
77	14.7	0.0	43.3

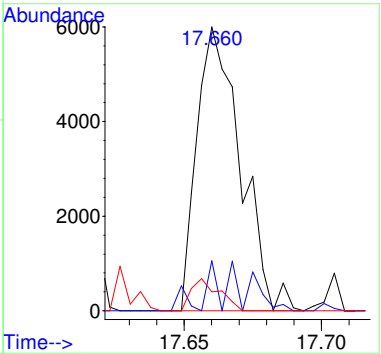




#48
Naphthalene SCAN
Concen: 61.07 ug/L
RT: 17.660 min Scan# 3086
Delta R.T. 0.000 min
Lab File: 06121704.D
Acq: 12 Jun 2017 12:43

Tgt Ion:128 Resp: 6622

Ion	Ratio	Lower	Upper
128	100		
127	3.5	0.0	43.9
129	7.3	0.0	41.0



CRDL STANDARD

Radiello D1

Laboratory: EPA Region 9 Laboratory
SDG: 17158A
Client: California Site Cleanup Section 3
Project: MEW OU3 May 2017 Investigation
Instrument ID: AG5975CV
Calibration: 1706007
Sequence: S17F044

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S17F044-CRL2	1,1-Dichloroethene	150	182	121	ug/L	60 - 140
	trans-1,2-Dichloroethene	150	167	111	ug/L	60 - 140
	cis-1,2-Dichloroethene	150	164	110	ug/L	60 - 140
	Chloroform	150	165	110	ug/L	60 - 140
	Benzene	150	184	123	ug/L	60 - 140
	Trichloroethene	150	155	103	ug/L	60 - 140
	Tetrachloroethene	150	152	101	ug/L	60 - 140
	Toluene-d8	150	153	102	ug/L	0 - 200

QLS REPORT

Instrument Name: AG5975C
Sample Name: S17F044-CRL2
Misc Info: 1717061 0.15 mg/L Benzene only
Date Acquired: 6/12/17 13:07
QLast Update: Tue Jun 06 15:10:51 2017
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
9)	Benzene	6.991	150.0	183.83	123%	60	140	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121705.D
Acq On : 12 Jun 2017 13:07
InstName : AG5975C
Operator : RH
Sample : S17F044-CRL2
Misc : 1717061 0.15 mg/L Benzene only
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 12 13:58:36 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

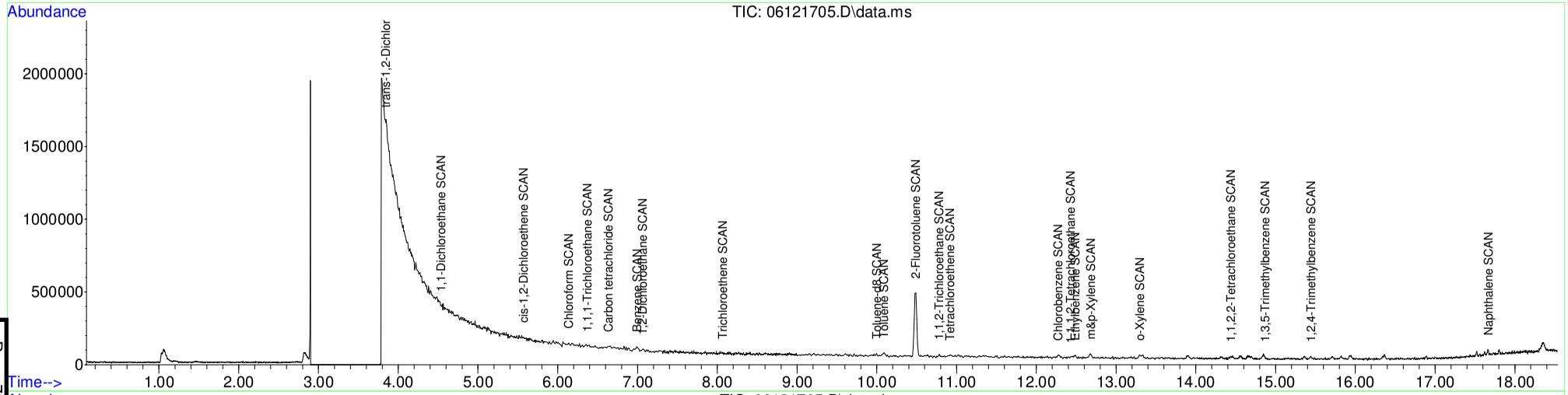
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.480	109	624483	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	15624	152.77 ug/L	0.00
Spiked Amount 5000.000	Range 70 - 130		Recovery =	3.06%#	
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.718	61	8962	181.97 ug/L	97
3] trans-1,2-Dichloroethene	3.849	61	8927	167.23 ug/L	88
4] 1,1-Dichloroethane	4.533	63	9654	167.78 ug/L	99
5] cis-1,2-Dichloroethene	5.555	61	9041	164.38 ug/L	99
6] Chloroform	6.140	83	8776	164.90 ug/L	97
7] 1,1,1-Trichloroethane	6.371	97	7707	157.67 ug/L	99
8] Carbon tetrachloride	6.626	117	6420	152.26 ug/L	99
9] Benzene	6.991	78	22784	183.83 ug/L	98
10] 1,2-Dichloroethane	7.052	62	7345	159.96 ug/L	99
11] Trichloroethene	8.058	130	4943	155.08 ug/L	99
13] Toluene	10.092	91	21164	156.27 ug/L	99
14] 1,1,2-Trichloroethane	10.774	97	4389	151.55 ug/L	100
15] Tetrachloroethene	10.921	166	5273	151.90 ug/L	99
16] Chlorobenzene	12.274	112	13119	152.50 ug/L	99
17] 1,1,1,2-Tetrachloroethane	12.433	131	4051	143.47 ug/L	98
18] Ethylbenzene	12.481	91	21520	147.65 ug/L	99
19] m&p-Xylene	12.671	91	33411	292.20 ug/L	99
20] o-Xylene	13.291	91	17286	146.18 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	7192	143.00 ug/L	100
22] 1,3,5-Trimethylbenzene	14.854	105	16320	139.77 ug/L	100
23] 1,2,4-Trimethylbenzene	15.440	105	16688	139.42 ug/L	100
24] Naphthalene	17.662	128	28020	158.07 ug/L	100
25) 2-Fluorotoluene SCAN	10.490	109	372706	4922.54 ug/L	97
27) trans-1,2-Dichloroethe...	3.841	61	5734	168.66 ug/L #	50
28) 1,1-Dichloroethane SCAN	4.538	63	7608	196.28 ug/L	56
29) cis-1,2-Dichloroethene...	5.567	61	6736	171.75 ug/L	81
30) Chloroform SCAN	6.138	83	4695	132.76 ug/L #	27
31) 1,1,1-Trichloroethane ...	6.369	97	6432	221.00 ug/L #	68
32) Carbon tetrachloride SCAN	6.637	117	4286	159.97 ug/L #	79
33) Benzene SCAN	6.990	78	24122	300.95 ug/L #	74
34) 1,2-Dichloroethane SCAN	7.063	62	5282	152.73 ug/L #	36
35) Trichloroethene SCAN	8.066	130	1311	70.63 ug/L #	31
36) Toluene-d8 SCAN	9.996	98	9137	146.22 ug/L	95
37) Toluene SCAN	10.091	91	15782	189.36 ug/L	84
38) 1,1,2-Trichloroethane ...	10.784	97	2013	107.24 ug/L #	34
39) Tetrachloroethene SCAN	10.920	166	3665	214.50 ug/L #	67
40) Chlorobenzene SCAN	12.273	112	8622	168.42 ug/L	91
41) 1,1,1,2-Tetrachloroeth...	12.424	131	1684	105.69 ug/L #	34
42) Ethylbenzene SCAN	12.487	91	15630	167.49 ug/L	82
43) m&p-Xylene SCAN	12.678	91	21732	149.15 ug/L	94
44) o-Xylene SCAN	13.297	91	9911	132.09 ug/L	72
45) 1,1,2,2-Tetrachloroeth...	14.438	83	6002	176.84 ug/L #	53
46) 1,3,5-Trimethylbenzene...	14.863	105	10042	141.10 ug/L	84
47) 1,2,4-Trimethylbenzene...	15.439	105	11034	148.77 ug/L	89
48) Naphthalene SCAN	17.665	128	12914	126.25 ug/L	77

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\061217\
Data File : 06121705.D
Acq On : 12 Jun 2017 13:07
InstName : AG5975C
Operator : RH
Sample : S17F044-CRL2
Misc : 1717061 0.15 mg/L Benzene only
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 12 13:58:36 2017
Quant Method : C:\MSDCHEM\1\RAVIOLI METHODS\2017\061217_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration



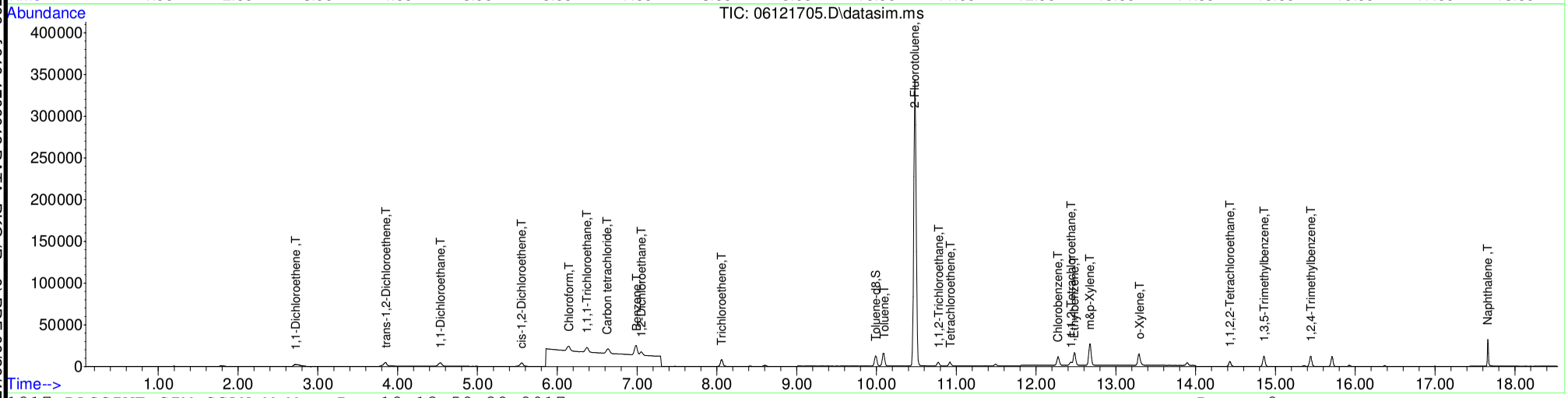


Table of Contents

SECOND SOURCE CALIBRATION CHECK

Radiello D1

Laboratory:	EPA Region 9 Laboratory	SDG:	17158A
Client:	California Site Cleanup Section 3	Project:	MEW OU3 May 2017 Investigation
Instrument ID:	AG5975CV	Calibration:	1706007
Lab File ID:	06061709.D	Calibration Date:	06/06/17 16:18
Sequence:	S17F020	Injection Date:	06/06/17
Lab Sample ID:	S17F020-SCV1	Injection Time:	14:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	SCV	ICAL	SCV	MIN (#)	SCV	LIMIT (#)
1,1-Dichloroethene	L	5000	4550	0.3943325	0.3587013		-9.0	20
trans-1,2-Dichloroethene	L	5000	4910	0.4273943	0.419838		-1.8	20
1,1-Dichloroethane	L	5000	5000	0.4606882	0.4602679		-0.09	20
cis-1,2-Dichloroethene	L	5000	4970	0.4403613	0.4374421		-0.7	20
Chloroform	L	5000	4790	0.4261171	0.407992		-4.3	20
1,1,1-Trichloroethane	L	5000	4950	0.3913579	0.3873503		-1.0	20
Carbon tetrachloride	L	5000	4890	0.3376017	0.3301868		-2.2	20
1,2-Dichloroethane	L	5000	5040	0.367646	0.3705261		0.8	20
Trichloroethene	L	5000	4870	0.255207	0.2485385		-2.6	20
Toluene	L	5000	4700	1.084364	1.019732		-6.0	20
1,1,2-Trichloroethane	L	5000	4930	0.2318792	0.2286258		-1.4	20
Tetrachloroethene	L	5000	4840	0.2779323	0.2689793		-3.2	20
Chlorobenzene	L	5000	4880	0.6887844	0.6720327		-2.4	20
1,1,1,2-Tetrachloroethane	L	5000	5020	0.2260789	0.2268947		0.4	20
Ethylbenzene	L	5000	4870	1.167004	1.136875		-2.6	20
m&p-Xylene	L	10000	9860	0.9154885	0.903035		-1.4	20
o-Xylene	L	5000	4870	0.9467982	0.9224028		-2.6	20
1,1,2,2-Tetrachloroethane	L	5000	4880	0.4026743	0.393216		-2.3	20
1,3,5-Trimethylbenzene	L	5000	5140	0.9348466	0.960643		2.8	20
1,2,4-Trimethylbenzene	L	5000	4980	0.9583733	0.9546358		-0.4	20
Naphthalene	L	5000	5320	1.4193	1.51018		6.4	20
Toluene-d8	L	5000	5010	0.8188439	0.8209664		0.3	20

SCV REPORT

Instrument Name: AG5975C
Sample Name: S17F020SCV1
Misc Info: 1717064 5 mg/L
Date Acquired: 6/6/2017
QLast Update: Tue Jun 06 15:10:51 2017
Operator: RH

#	Name	Ret Time	Amount	Concentration	%R	QC	LIMIT	STATUS
1)	2-Fluorotoluene	10.480	5000	5000.00	100%	70	130	pass
2)	1,1-Dichloroethene	2.711	5000	4548.21	91%	70	130	pass
3)	trans-1,2-Dichloroethene	3.869	5000	4911.60	98%	70	130	pass
4)	1,1-Dichloroethane	4.553	5000	4995.44	100%	70	130	pass
5)	cis-1,2-Dichloroethene	5.568	5000	4966.86	99%	70	130	pass
6)	Chloroform	6.152	5000	4787.32	96%	70	130	pass
7)	1,1,1-Trichloroethane	6.383	5000	4948.80	99%	70	130	pass
8)	Carbon tetrachloride	6.638	5000	4890.18	98%	70	130	pass
9)	Benzene	6.991	5000	4750.61	95%	70	130	pass
10)	1,2-Dichloroethane	7.064	5000	5039.17	101%	70	130	pass
11)	Trichloroethene	8.063	5000	4869.35	97%	70	130	pass
12)	Toluene-d8	9.987	5000	5012.96	100%	70	130	pass
13)	Toluene	10.092	5000	4701.98	94%	70	130	pass
14)	1,1,2-Trichloroethane	10.774	5000	4929.85	99%	70	130	pass
15)	Tetrachloroethene	10.921	5000	4838.94	97%	70	130	pass
16)	Chlorobenzene	12.274	5000	4878.40	98%	70	130	pass
17)	1,1,1,2-Tetrachloroethane	12.433	5000	5018.04	100%	70	130	pass
18)	Ethylbenzene	12.480	5000	4870.92	97%	70	130	pass
19)	m&p-Xylene	12.679	10000	9863.97	99%	70	130	pass
20)	o-Xylene	13.291	5000	4871.17	97%	70	130	pass
21)	1,1,2,2-Tetrachloroethane	14.429	5000	4882.56	98%	70	130	pass
22)	1,3,5-Trimethylbenzene	14.853	5000	5137.97	103%	70	130	pass
23)	1,2,4-Trimethylbenzene	15.439	5000	4980.50	100%	70	130	pass
24)	Naphthalene	17.661	5000	5320.16	106%	70	130	pass

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061709.D
Acq On : 6 Jun 2017 14:26
InstName : AG5975C
Operator : RH
Sample : S17F020SCV1
Misc : 1717064 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 06 15:11:19 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration

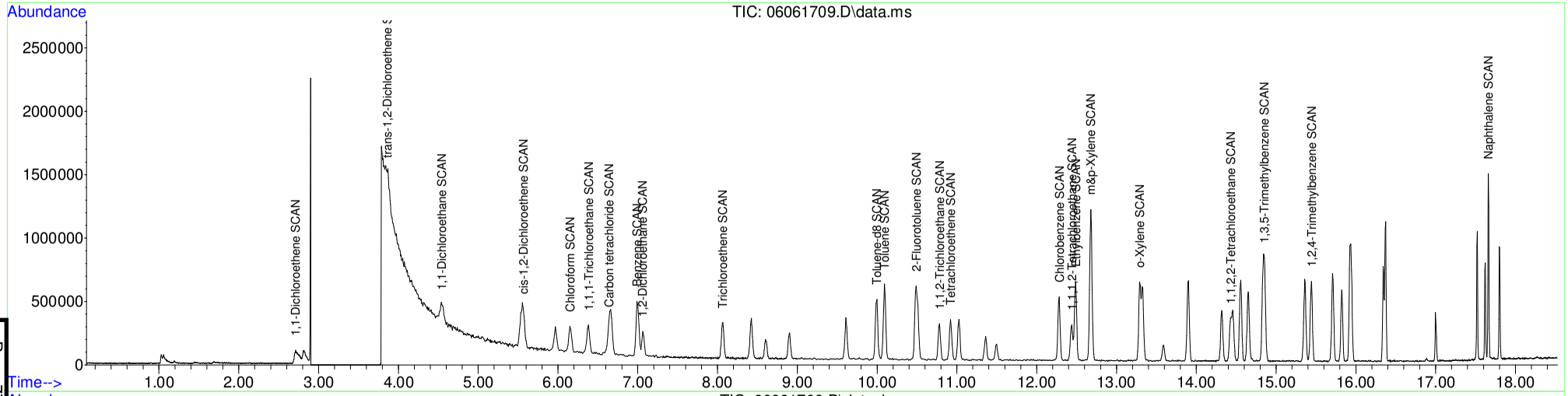
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 2-Fluorotoluene	10.481	109	706482	5000.00 ug/L	0.00
System Monitoring Compounds					
12) Toluene-d8	9.987	98	579998	5012.96 ug/L	0.00
Spiked Amount 5000.000 Range 70 - 130 Recovery = 100.26%					
Target Compounds					Qvalue
2] 1,1-Dichloroethene	2.711	61	253416	4548.21 ug/L	100
3] trans-1,2-Dichloroethene	3.863	61	296608	4911.60 ug/L	100
4] 1,1-Dichloroethane	4.546	63	325171	4995.44 ug/L	100
5] cis-1,2-Dichloroethene	5.561	61	309045	4966.86 ug/L	100
6] Chloroform	6.152	83	288239	4787.32 ug/L	99
7] 1,1,1-Trichloroethane	6.383	97	273656	4948.80 ug/L	100
8] Carbon tetrachloride	6.638	117	233271	4890.18 ug/L	99
9] Benzene	6.991	78	666099	4750.61 ug/L	100
10] 1,2-Dichloroethane	7.052	62	261770	5039.17 ug/L	100
11] Trichloroethene	8.063	130	175588	4869.35 ug/L	100
13] Toluene	10.082	91	720422	4701.98 ug/L	100
14] 1,1,2-Trichloroethane	10.774	97	161520	4929.85 ug/L	100
15] Tetrachloroethene	10.921	166	190029	4838.94 ug/L	100
16] Chlorobenzene	12.274	112	474779	4878.40 ug/L	100
17] 1,1,1,2-Tetrachloroethane	12.433	131	160297	5018.04 ug/L	100
18] Ethylbenzene	12.481	91	803182	4870.92 ug/L	100
19] m&p-Xylene	12.671	91	1275956	9863.97 ug/L	100
20] o-Xylene	13.291	91	651661	4871.17 ug/L	100
21] 1,1,2,2-Tetrachloroethane	14.428	83	277800	4882.56 ug/L	100
22] 1,3,5-Trimethylbenzene	14.855	105	678677	5137.97 ug/L	100
23] 1,2,4-Trimethylbenzene	15.440	105	674433	4980.50 ug/L	100
24] Naphthalene	17.663	128	1066915	5320.16 ug/L	100
25) 2-Fluorotoluene SCAN	10.490	109	429317	5012.10 ug/L	93
26) 1,1-Dichloroethene SCAN	2.713	61	176715	4903.35 ug/L	96
27) trans-1,2-Dichloroethe...	3.861	61	197231	5128.00 ug/L	100
28) 1,1-Dichloroethane SCAN	4.545	63	230263	5251.04 ug/L	95
29) cis-1,2-Dichloroethene...	5.567	61	222453	5013.73 ug/L	97
30) Chloroform SCAN	6.151	83	197497	4936.30 ug/L	99
31) 1,1,1-Trichloroethane ...	6.382	97	180288	5475.65 ug/L	94
32) Carbon tetrachloride SCAN	6.637	117	141494	4668.16 ug/L	95
33) Benzene SCAN	6.990	78	435023	4797.43 ug/L	98
34) 1,2-Dichloroethane SCAN	7.063	62	197356	5044.09 ug/L	92
35) Trichloroethene SCAN	8.062	130	99584	4742.32 ug/L	95
36) Toluene-d8 SCAN	9.997	98	359559	5086.21 ug/L	99
37) Toluene SCAN	10.091	91	459895	4877.59 ug/L	99
38) 1,1,2-Trichloroethane ...	10.784	97	96401	4539.68 ug/L	94
39) Tetrachloroethene SCAN	10.920	166	101660	5259.24 ug/L	96
40) Chlorobenzene SCAN	12.281	112	276786	4779.02 ug/L	97
41) 1,1,1,2-Tetrachloroeth...	12.440	131	83707	4643.82 ug/L	95
42) Ethylbenzene SCAN	12.487	91	497058	4708.12 ug/L	99
43) m&p-Xylene SCAN	12.678	91	804887	4882.94 ug/L	97
44) o-Xylene SCAN	13.290	91	401205	4726.63 ug/L	97
45) 1,1,2,2-Tetrachloroeth...	14.427	83	184185	4796.87 ug/L	98
46) 1,3,5-Trimethylbenzene...	14.853	105	400381	4972.73 ug/L	98
47) 1,2,4-Trimethylbenzene...	15.444	105	401760	4788.29 ug/L	98
48) Naphthalene SCAN	17.661	128	576534	4982.18 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\Ravioli Data\2017\060617\
Data File : 06061709.D
Acq On : 6 Jun 2017 14:26
InstName : AG5975C
Operator : RH
Sample : S17F020SCV1
Misc : 1717064 5 mg/L
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 06 15:11:19 2017
Quant Method : C:\msdchem\1\Ravioli Methods\2017\060617_PASSIVE_SIM_SCAN.M
Quant Title : Volatile Organic Analysis - Passive samplers
QLast Update : Tue Jun 06 15:10:51 2017
Response via : Initial Calibration



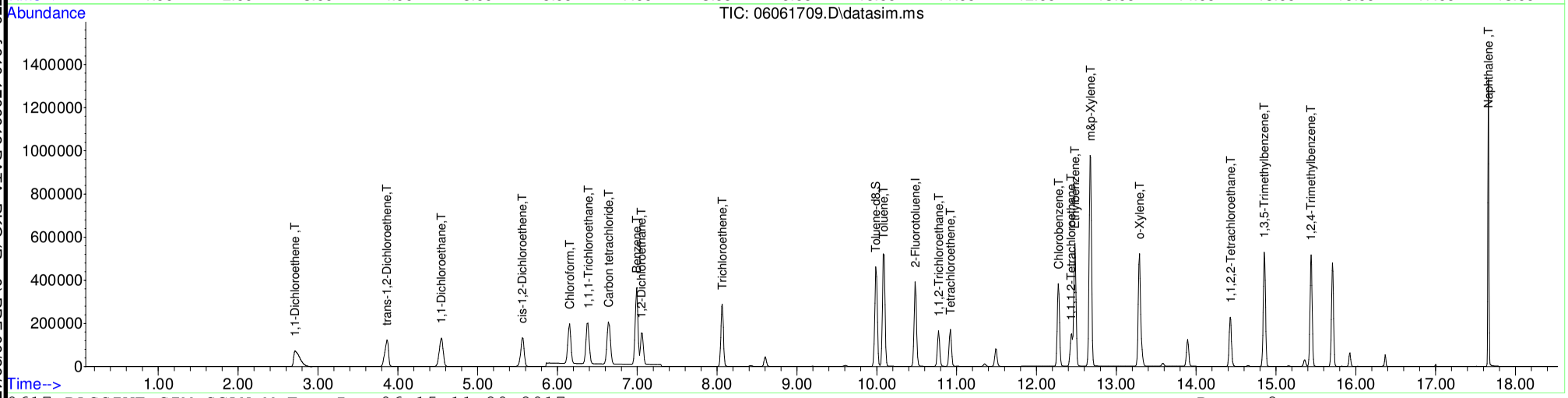


Table of Contents

Analytical Standard Record

EPA Region 9 Laboratory

1552040

Description:	VOA BFB TUNING CPD	**Expires:**	08/31/20
Standard Type:	Other Solution	**Prepared:**	08/31/15
Solvent:	Solvent Lot #	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	12/23/15 12:01 by EM
Vendor:	Restek	**Lot Numbe**	A0111332

RESTEK Cat No. 30003, , bar code# AU007641

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

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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.:** A0111332

Description : VOA Tuning Compound Mix

VOA Tuning Compound Mix 5,000µg/mL, P&T Methanol, 1mL/ampul

1552038-41
AU007638-42

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2020 **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%	5,012.0 µg/mL	+/- 29.4132	µg/mL	Gravimetric
			+/- 56.6587	µg/mL	Unstressed
			+/- 65.1581	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Analytical Standard Record

EPA Region 9 Laboratory

1618022

Description:	VOA 502.2 CAL 2000 MEGA MIX, Stock	**Expires:**	12/31/17
Standard Type:	Other Solution	**Prepared:**	04/25/16
Solvent:	MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	04/25/16 09:38 by YNB
Vendor:	Restek	**Lot Numbe**	A0115992

RESTEK, catalog # 30431, Barcode AU008084

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

1618022

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

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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.:** A0115992

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 : December 31, 2017 **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	2,002.3 µg/mL	+/- 15.3746	µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBD6170V)		+/- 90.7413	µg/mL	Unstressed
	Purity 99%		+/- 100.5728	µg/mL	Stressed
2	Methylene chloride (dichloromethane)	2,001.1 µg/mL	+/- 15.3655	µg/mL	Gravimetric
	CAS # 75-09-2 (Lot SHBF9870V)		+/- 90.6879	µg/mL	Unstressed
	Purity 99%		+/- 100.5136	µg/mL	Stressed
3	trans-1,2-Dichloroethene	2,000.4 µg/mL	+/- 15.3603	µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/- 90.6570	µg/mL	Unstressed
	Purity 99%		+/- 100.4794	µg/mL	Stressed
4	1,1-Dichloroethane	2,000.6 µg/mL	+/- 15.3620	µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 00008621)		+/- 90.6670	µg/mL	Unstressed
	Purity 99%		+/- 100.4904	µg/mL	Stressed
5	2,2-Dichloropropane	2,007.4 µg/mL	+/- 15.4144	µg/mL	Gravimetric
	CAS # 594-20-7 (Lot BCBH9246V)		+/- 90.9738	µg/mL	Unstressed
	Purity 98%		+/- 100.8304	µg/mL	Stressed
6	cis-1,2-Dichloroethene	2,009.7 µg/mL	+/- 15.4322	µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKBQ2835V)		+/- 91.0788	µg/mL	Unstressed
	Purity 99%		+/- 100.9469	µg/mL	Stressed
7	chloroform	2,001.0 µg/mL	+/- 15.3648	µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBD7581V)		+/- 90.6835	µg/mL	Unstressed
	Purity 98%		+/- 100.5087	µg/mL	Stressed

8	Bromochloromethane			2,002.7	µg/mL	+/-	15.3779	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00004559)				+/-	90.7582	µg/mL	Unstressed
	Purity 99%					+/-	100.5915	µg/mL	Stressed
9	1,1,1-trichloroethane			2,001.9	µg/mL	+/-	15.3715	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B14QT1124)				+/-	90.7232	µg/mL	Unstressed
	Purity 99%					+/-	100.5527	µg/mL	Stressed
10	1,1-Dichloropropene			2,000.2	µg/mL	+/-	15.3587	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot PR09161302)				+/-	90.6451	µg/mL	Unstressed
	Purity 98%					+/-	100.4662	µg/mL	Stressed
11	carbon tetrachloride			2,004.2	µg/mL	+/-	15.3893	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBC1410V)				+/-	90.8283	µg/mL	Unstressed
	Purity 99%					+/-	100.6693	µg/mL	Stressed
12	1,2-Dichloroethane			2,001.3	µg/mL	+/-	15.3674	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot SHBC6595V)				+/-	90.6987	µg/mL	Unstressed
	Purity 99%					+/-	100.5256	µg/mL	Stressed
13	Benzene			2,000.2	µg/mL	+/-	15.3593	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBF0424V)				+/-	90.6483	µg/mL	Unstressed
	Purity 99%					+/-	100.4697	µg/mL	Stressed
14	Trichloroethene			2,011.8	µg/mL	+/-	15.4480	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBF0943V)				+/-	91.1746	µg/mL	Unstressed
	Purity 99%					+/-	101.0530	µg/mL	Stressed
15	1,2-Dichloropropane			2,003.5	µg/mL	+/-	15.3837	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot 01113D0V)				+/-	90.7948	µg/mL	Unstressed
	Purity 99%					+/-	100.6321	µg/mL	Stressed
16	bromodichloromethane			2,000.5	µg/mL	+/-	15.3609	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot 150916JLM)				+/-	90.6607	µg/mL	Unstressed
	Purity 99%					+/-	100.4834	µg/mL	Stressed
17	Dibromomethane			2,001.1	µg/mL	+/-	15.3658	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10169264)				+/-	90.6868	µg/mL	Unstressed
	Purity 99%					+/-	100.5124	µg/mL	Stressed
18	cis-1,3-Dichloropropene			2,005.0	µg/mL	+/-	15.3958	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot 22119)				+/-	90.8664	µg/mL	Unstressed
	Purity 99%					+/-	100.7115	µg/mL	Stressed
19	Toluene			2,001.2	µg/mL	+/-	15.3668	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBF7904V)				+/-	90.6925	µg/mL	Unstressed
	Purity 99%					+/-	100.5186	µg/mL	Stressed
20	trans-1,3-Dichloropropene			2,002.8	µg/mL	+/-	15.3787	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot C579534)				+/-	90.7658	µg/mL	Unstressed
	Purity 99%					+/-	100.5999	µg/mL	Stressed
21	1,1,2-Trichloroethane			2,005.0	µg/mL	+/-	15.3953	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)				+/-	90.8637	µg/mL	Unstressed
	Purity 99%					+/-	100.7084	µg/mL	Stressed
22	1,3-Dichloropropane			2,001.0	µg/mL	+/-	15.3654	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBG2162V)				+/-	90.6845	µg/mL	Unstressed
	Purity 99%					+/-	100.5099	µg/mL	Stressed
23	Tetrachloroethene			2,004.5	µg/mL	+/-	15.3916	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBD9374V)				+/-	90.8419	µg/mL	Unstressed
	Purity 99%					+/-	100.6843	µg/mL	Stressed

24	dibromochloromethane			2,000.7	µg/mL	+/-	15.3621	µg/mL	Gravimetric
	CAS #	124-48-1	(Lot 150915JLM)			+/-	90.6675	µg/mL	Unstressed
	Purity	98%				+/-	100.4910	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)			2,000.9	µg/mL	+/-	15.3645	µg/mL	Gravimetric
	CAS #	106-93-4	(Lot BCBH3877V)			+/-	90.6789	µg/mL	Unstressed
	Purity	99%				+/-	100.5036	µg/mL	Stressed
26	Chlorobenzene			2,001.3	µg/mL	+/-	15.3669	µg/mL	Gravimetric
	CAS #	108-90-7	(Lot SHBF0505V)			+/-	90.6960	µg/mL	Unstressed
	Purity	99%				+/-	100.5226	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane			2,001.8	µg/mL	+/-	15.3714	µg/mL	Gravimetric
	CAS #	630-20-6	(Lot MKBF2316V)			+/-	90.7197	µg/mL	Unstressed
	Purity	99%				+/-	100.5488	µg/mL	Stressed
28	Ethylbenzene			2,002.0	µg/mL	+/-	15.3725	µg/mL	Gravimetric
	CAS #	100-41-4	(Lot SHBD6720V)			+/-	90.7265	µg/mL	Unstressed
	Purity	99%				+/-	100.5563	µg/mL	Stressed
29	m-Xylene			2,000.5	µg/mL	+/-	15.3616	µg/mL	Gravimetric
	CAS #	108-38-3	(Lot SHBF1720V)			+/-	90.6619	µg/mL	Unstressed
	Purity	99%				+/-	100.4847	µg/mL	Stressed
30	p-Xylene			2,000.5	µg/mL	+/-	15.3614	µg/mL	Gravimetric
	CAS #	106-42-3	(Lot SHBF3427V)			+/-	90.6607	µg/mL	Unstressed
	Purity	99%				+/-	100.4835	µg/mL	Stressed
31	o-Xylene			2,000.3	µg/mL	+/-	15.3599	µg/mL	Gravimetric
	CAS #	95-47-6	(Lot SHBC8668V)			+/-	90.6518	µg/mL	Unstressed
	Purity	98%				+/-	100.4736	µg/mL	Stressed
32	Styrene			2,000.3	µg/mL	+/-	15.3597	µg/mL	Gravimetric
	CAS #	100-42-5	(Lot 10182421)			+/-	90.6505	µg/mL	Unstressed
	Purity	99%				+/-	100.4722	µg/mL	Stressed
33	Isopropylbenzene (cumene)			2,000.1	µg/mL	+/-	15.3585	µg/mL	Gravimetric
	CAS #	98-82-8	(Lot 10169400)			+/-	90.6437	µg/mL	Unstressed
	Purity	99%				+/-	100.4647	µg/mL	Stressed
34	bromoform			2,000.8	µg/mL	+/-	15.3634	µg/mL	Gravimetric
	CAS #	75-25-2	(Lot SHBC3410V)			+/-	90.6752	µg/mL	Unstressed
	Purity	99%				+/-	100.4995	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane			2,001.9	µg/mL	+/-	15.3717	µg/mL	Gravimetric
	CAS #	79-34-5	(Lot CFA4D)			+/-	90.7241	µg/mL	Unstressed
	Purity	99%				+/-	100.5537	µg/mL	Stressed
36	1,2,3-Trichloropropane			2,000.8	µg/mL	+/-	15.3637	µg/mL	Gravimetric
	CAS #	96-18-4	(Lot 1428739V)			+/-	90.6743	µg/mL	Unstressed
	Purity	99%				+/-	100.4986	µg/mL	Stressed
37	n-Propylbenzene			2,000.3	µg/mL	+/-	15.3599	µg/mL	Gravimetric
	CAS #	103-65-1	(Lot MKBQ8049V)			+/-	90.6517	µg/mL	Unstressed
	Purity	99%				+/-	100.4734	µg/mL	Stressed
38	Bromobenzene			2,001.3	µg/mL	+/-	15.3673	µg/mL	Gravimetric
	CAS #	108-86-1	(Lot MKBD4032V)			+/-	90.6959	µg/mL	Unstressed
	Purity	99%				+/-	100.5224	µg/mL	Stressed
39	1,3,5-Trimethylbenzene			2,000.6	µg/mL	+/-	15.3624	µg/mL	Gravimetric
	CAS #	108-67-8	(Lot BCBJ3305V)			+/-	90.6664	µg/mL	Unstressed
	Purity	99%				+/-	100.4898	µg/mL	Stressed

40	2-Chlorotoluene			2,000.9	µg/mL	+/-	15.3641	µg/mL	Gravimetric
	CAS #	95-49-8	(Lot MKBH8892V)			+/-	90.6766	µg/mL	Unstressed
	Purity	99%				+/-	100.5011	µg/mL	Stressed
41	4-Chlorotoluene			2,000.5	µg/mL	+/-	15.3616	µg/mL	Gravimetric
	CAS #	106-43-4	(Lot MKBB7205V)			+/-	90.6619	µg/mL	Unstressed
	Purity	99%				+/-	100.4847	µg/mL	Stressed
42	1,2,4-Trimethylbenzene			2,000.4	µg/mL	+/-	15.3608	µg/mL	Gravimetric
	CAS #	95-63-6	(Lot MKBJ6229V)			+/-	90.6573	µg/mL	Unstressed
	Purity	98%				+/-	100.4797	µg/mL	Stressed
43	sec-Butylbenzene			2,000.1	µg/mL	+/-	15.3585	µg/mL	Gravimetric
	CAS #	135-98-8	(Lot MKBK3151V)			+/-	90.6437	µg/mL	Unstressed
	Purity	99%				+/-	100.4647	µg/mL	Stressed
44	p-Isopropyltoluene (p-Cymene)			2,000.7	µg/mL	+/-	15.3627	µg/mL	Gravimetric
	CAS #	99-87-6	(Lot MKBK4439V)			+/-	90.6687	µg/mL	Unstressed
	Purity	99%				+/-	100.4923	µg/mL	Stressed
45	1,3-Dichlorobenzene			2,002.7	µg/mL	+/-	15.3777	µg/mL	Gravimetric
	CAS #	541-73-1	(Lot BCBC1891V)			+/-	90.7595	µg/mL	Unstressed
	Purity	99%				+/-	100.5929	µg/mL	Stressed
46	1,4-Dichlorobenzene			2,002.6	µg/mL	+/-	15.3767	µg/mL	Gravimetric
	CAS #	106-46-7	(Lot MKBS1350V)			+/-	90.7540	µg/mL	Unstressed
	Purity	99%				+/-	100.5869	µg/mL	Stressed
47	n-Butylbenzene			2,000.3	µg/mL	+/-	15.3600	µg/mL	Gravimetric
	CAS #	104-51-8	(Lot 09418JJV)			+/-	90.6528	µg/mL	Unstressed
	Purity	99%				+/-	100.4747	µg/mL	Stressed
48	tert-Butylbenzene			2,001.1	µg/mL	+/-	15.3658	µg/mL	Gravimetric
	CAS #	98-06-6	(Lot S52237V)			+/-	90.6868	µg/mL	Unstressed
	Purity	99%				+/-	100.5124	µg/mL	Stressed
49	1,2-Dichlorobenzene			2,002.9	µg/mL	+/-	15.3794	µg/mL	Gravimetric
	CAS #	95-50-1	(Lot SHBD7331V)			+/-	90.7694	µg/mL	Unstressed
	Purity	99%				+/-	100.6040	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane			2,000.8	µg/mL	+/-	15.3639	µg/mL	Gravimetric
	CAS #	96-12-8	(Lot 150618JLM)			+/-	90.6755	µg/mL	Unstressed
	Purity	99%				+/-	100.4998	µg/mL	Stressed
51	1,2,4-Trichlorobenzene			2,000.4	µg/mL	+/-	15.3603	µg/mL	Gravimetric
	CAS #	120-82-1	(Lot SHBC5541V)			+/-	90.6540	µg/mL	Unstressed
	Purity	98%				+/-	100.4760	µg/mL	Stressed
52	Hexachlorobutadiene			1,999.9	µg/mL	+/-	15.3569	µg/mL	Gravimetric
	CAS #	87-68-3	(Lot J31X013)			+/-	90.6340	µg/mL	Unstressed
	Purity	98%				+/-	100.4539	µg/mL	Stressed
53	Naphthalene			2,000.3	µg/mL	+/-	15.3599	µg/mL	Gravimetric
	CAS #	91-20-3	(Lot MKBH4351V)			+/-	90.6517	µg/mL	Unstressed
	Purity	99%				+/-	100.4734	µg/mL	Stressed
54	1,2,3-Trichlorobenzene			2,000.0	µg/mL	+/-	15.3577	µg/mL	Gravimetric
	CAS #	87-61-6	(Lot 12912PFV)			+/-	90.6392	µg/mL	Unstressed
	Purity	99%				+/-	100.4596	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)

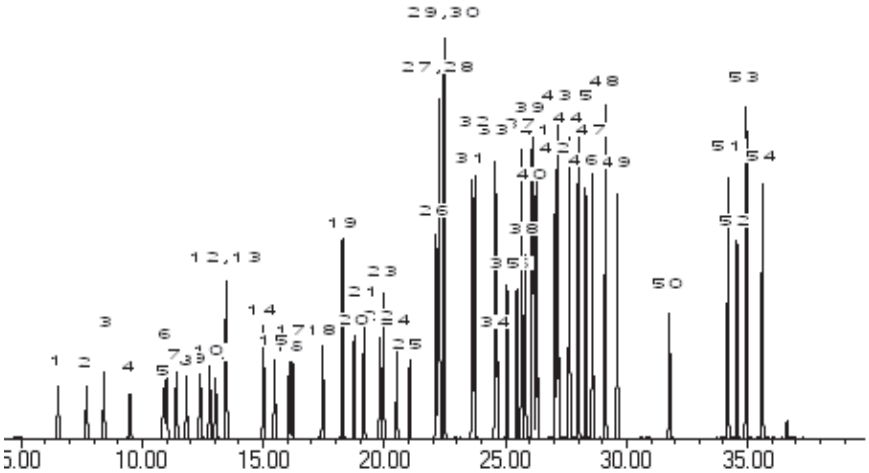
Carrier Gas:
helium-constant pressure 30 psi

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.

Cheryl Graham - Mix Technician

Date Mixed: 15-Dec-2015 **Balance:** 1125113331

Amanda Miller - QC Analyst

Date Passed: 18-Dec-2015

Manufactured under Restek's ISO 9001:2008 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 Guides 34 and 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:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- 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

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

1639097

Description:	Toluene-d8	**Expires:**	05/31/19
Standard Type:	Other Solution	**Prepared:**	09/22/16
Solvent:	na	**Prepared By:**	Bob Hopeman
Final Volume (mls):	0.1	**Department:**	Volatiles
Vials:	1	**Last Edit:**	09/22/16 11:51 by RH
Vendor:	Supelco	**Lot Numbe**	LC20793V

Aldrich; Cat # 44-2809, bar code #AU008467

Analyte	CAS Number	Concentration (ppm)
Toluene-d8	2037-26-5	1000000

Certificate of Analysis

DESCRIPTION: Toluene-d8

MFG. DATE: May 2016

CATALOG NO.: 442809 (1)

LOT NO.: LC20793V

EXP. DATE: May 2019

CAS NUMBER: 2037-26-5

MOLECULAR FORMULA: C7D8

MOLECULAR WEIGHT: 100.21

PHYSICAL PROPERTIES	ASSAY	
FTIR	Matches: SUPELCO	Lib. No.: USER1 37
GC - Mass Spec	Matches: NIST	Lib. No.: 3888
Purity (2)	98.6%	

(1) This product is packaged from R471390 Lot number LC11825.

(2) Determined by GC-FID unless otherwise noted.

Duane Funk

Duane Funk
Quality Manager

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Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Analytical Standard Record

EPA Region 9 Laboratory

1652069

Description:	passive air WORKING BFB 25 mg/L	Expires:	06/20/17
Standard Type:	MS Tune Solution	Prepared:	12/20/16
Solvent:	CS2	Prepared By:	Tatyana Dadiomov
Final Volume (mls):	5	Department:	Volatiles
Vials:	1	Last Edit:	12/21/16 06:44 by TD

Analyte	CAS Number	Concentration	Units
4-Bromofluorobenzene	460-00-4	25	ppm

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1552040	VOA BFB TUNING CPD	08/31/15	** Vendor **	08/31/20	12/23/15 12:01 by EM	0.025

Reviewed By Date

Analytical Standard Record

EPA Region 9 Laboratory

1716096

Description:	VOA 502/524 VOC Mix, Stock	**Expires:**	08/31/18
Standard Type:	Other Solution	**Prepared:**	04/19/17
Solvent:	MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1.15	**Department:**	Volatiles
Vials:	1	**Last Edit:**	04/19/17 11:24 by YNB
Vendor:	Supelco	**Lot Numbe**	LC22531V

Supelco, Cat # 502111, Lot# LC22531V, bar code AU009079

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

1716096

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

DESCRIPTION: 502/524 Volatile Organics Calibration Mix

CATALOG NO.: 502111
LOT NO.: LC22531V

MFG DATE: Aug-2016
EXPIRATION DATE: Aug-2018

SOLVENT: METHANOL

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
BENZENE	71-43-2	99.9	2000	1959	+/-	6.8	LC03683
BROMOBENZENE	108-86-1	99.5	2000	1974	+/-	7.5	LB99843
BROMOCHLOROMETHANE	74-97-5	99.3	2000	1944	+/-	24.1	LB39040
BROMODICHLOROMETHANE	75-27-4	98.3	2000	1939	+/-	11.0	LC08591
BROMOFORM	75-25-2	99.9	2000	1965	+/-	13.1	LB80493
CARBON TETRACHLORIDE	56-23-5	99.9	2000	1961	+/-	48.8	LA55583
CHLOROBENZENE	108-90-7	99.9	2000	1964	+/-	10.1	LC05550
CHLOROFORM	67-66-3	98.2	2000	1964	+/-	13.6	LB97804
CIS 1,3-DICHLOROPROPENE (Z)	10061-01-5	99.9	2000	1960	+/-	4.4	LC20110
CIS-1,2-DICHLOROETHYLENE	156-59-2	99.3	2000	1937	+/-	25.3	LB80945
CUMENE	98-82-8	99.9	2001	1966	+/-	8.2	LB89580
DIBROMOCHLOROMETHANE	124-48-1	95.2	2000	1964	+/-	8.9	LB89245
DIBROMOMETHANE	74-95-3	98.9	2000	1948	+/-	11.6	LB81118
DICHLOROMETHANE	75-09-2	99.9	2000	1968	+/-	64.8	LC17906
ETHYLBENZENE	100-41-4	99.9	2000	1961	+/-	5.4	LB69556
HEXACHLOROBUTADIENE	87-68-3	96.6	2000	2047	+/-	26.7	LC19488
M-XYLENE (5)	108-38-3	99.9	2000	*****			LB87531
N-BUTYLBENZENE	104-51-8	99.9	2000	1982	+/-	17.0	LB81630
N-PROPYLBENZENE	103-65-1	99.9	2000	1954	+/-	10.7	LC15896

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, based upon balance and Class A volumetric glassware tolerances. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

AU009079	1716096
80	097
81	098
82	099
83	100

Duane Funk

Duane Funk
Quality Manager

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SUPELCO
Solutions within.
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: 502/524 Volatile Organics Calibration Mix

CATALOG NO.: 502111
LOT NO.: LC22531V

MFG DATE: Aug-2016
EXPIRATION DATE: Aug-2018

SOLVENT: METHANOL

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
NAPHTHALENE	91-20-3	99.9	2000	1991	+/-	22.7	LB83148
O-XYLENE	95-47-6	99.9	2001	1982	+/-	6.6	LB63785
P-ISOPROPYLTOLUENE	99-87-6	99.2	2000	1971	+/-	12.7	LB40003
P-XYLENE (5)	106-42-3	99.9	2000	*****			LB73203
SEC-BUTYLBENZENE	135-98-8	99.8	2000	1971	+/-	11.5	LB77150
STYRENE	100-42-5	99.9	2001	1971	+/-	9.0	LC17632
TERT-BUTYLBENZENE	98-06-6	99.8	2000	1966	+/-	13.2	LB40373
TETRACHLOROETHENE	127-18-4	99.9	2000	1985	+/-	11.6	LB67182
TOLUENE	108-88-3	99.9	2000	1954	+/-	9.2	LC14689
TRANS 1,3-DICHLOROPROPENE (E)	10061-02-6	99.3	2000	1950	+/-	13.8	LC11733
TRANS-1,2-DICHLOROETHYLENE	156-60-5	99.6	2000	1956	+/-	87.3	LB82639
TRICHLOROETHYLENE	79-01-6	98.4	2000	1954	+/-	30.7	LB56674
1,1-DICHLOROETHANE	75-34-3	98.0	2000	1983	+/-	50.0	LB68167
1,1-DICHLOROETHYLENE	75-35-4	99.9	2000	1843	+/-	125.5	LC08188
1,1-DICHLOROPROPENE	563-58-6	99.9	2000	1952	+/-	47.8	LC11148
1,1,1-TRICHLOROETHANE	71-55-6	97.2	2000	1939	+/-	32.9	LC06533
1,1,1,2-TETRACHLOROETHANE	630-20-6	99.9	2001	1990	+/-	10.4	LC14810
1,1,2-TRICHLOROETHANE	79-00-5	99.9	2001	1962	+/-	12.7	LB87978
1,1,2,2-TETRACHLOROETHANE	79-34-5	99.9	2000	1969	+/-	15.4	LB51327

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, based upon balance and Class A volumetric glassware tolerances. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Duane Funk

Duane Funk
Quality Manager

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SUPELCO
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595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

Certificate of Analysis

DESCRIPTION: 502/524 Volatile Organics Calibration Mix

CATALOG NO.: 502111
LOT NO.: LC22531V

MFG DATE: Aug-2016
EXPIRATION DATE: Aug-2018

SOLVENT: METHANOL

ANALYTE (1)	CAS NUMBER	PERCENT PURITY(2)	WEIGHT(3) CONCENTRATION	ANALYTICAL(4) CONCENTRATION		STD DEV	SUPELCO LOT NO
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	98.1	2000	1985	+/-	35.5	LB06608
1,2-DIBROMOETHANE	106-93-4	99.1	2000	1957	+/-	10.8	LB42792
1,2-DICHLOROBENZENE	95-50-1	99.5	2000	1980	+/-	13.7	LB58923
1,2-DICHLOROETHANE	107-06-2	99.9	2000	1960	+/-	32.6	LB74294
1,2-DICHLOROPROPANE	78-87-5	99.9	2000	1966	+/-	8.6	LC14320
1,2,3-TRICHLOROBENZENE	87-61-6	99.9	2000	2009	+/-	25.5	LA50762
1,2,3-TRICHLOROPROPANE	96-18-4	99.4	2000	1976	+/-	14.3	LB82841
1,2,4-TRICHLOROBENZENE	120-82-1	99.4	2000	1986	+/-	22.6	LB48083
1,2,4-TRIMETHYLBENZENE	95-63-6	98.8	2000	1978	+/-	11.1	LB97224
1,3-DICHLOROBENZENE	541-73-1	99.9	2001	1981	+/-	9.4	LB68066
1,3-DICHLOROPROPANE	142-28-9	99.9	2000	1956	+/-	8.8	LC10811
1,3,5-TRIMETHYLBENZENE	108-67-8	99.3	2000	1969	+/-	9.8	LB82157
1,4-DICHLOROBENZENE	106-46-7	99.9	2000	1973	+/-	11.0	LB90630
2-CHLOROTOLUENE	95-49-8	99.9	2000	1970	+/-	11.2	LC01464
2,2-DICHLOROPROPANE	594-20-7	99.9	2000	1946	+/-	32.2	LC11610
4-CHLOROTOLUENE	106-43-4	99.9	2000	1965	+/-	10.6	LC02742

(1) Listed in alphabetical order.
(2) Determined by capillary GC-FID, unless otherwise noted.
(3) NIST traceable weights are used to verify balance calibration with the preparation of each lot. Concentration of analyte in solution is ug/ml +/- 0.5%, based upon balance and Class A volumetric glassware tolerances. Weights are corrected for analytes less than 98% pure.
(4) Determined by chromatographic analysis against an independently prepared reference lot. Mean of replicate injections.
(5) These products coelute and are not quantified in the final mix.

Duane Funk

Duane Funk
Quality Manager

Supelco warrants that its products conform to the information contained in this publication. Purchaser must determine the suitability of the product for its particular use. Please see the latest catalog or order invoice and packing slip for additional terms and conditions of sale.
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SUPELCO
Solutions within.™
595 North Harrison Road
Bellefonte, PA 16823-0048 USA
Phone (814) 359-3441

This Data Sheet Contains Important Information About The Product.

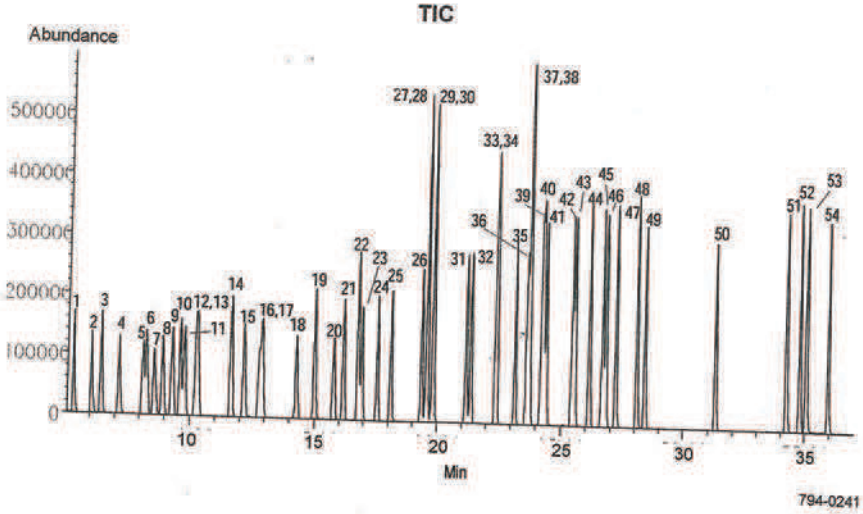
502/524 Volatile Organics Calibration Mix

Catalog No. 502111

This mixture contains 2000µg/mL of each of the following components in methanol:

1. 1,1-Dichloroethylene
2. Methylene chloride
3. trans-1,2-Dichloroethylene
4. 1,1-Dichloroethane
5. 2,2-Dichloropropane
6. cis-1,2-Dichloroethylene
7. Chloroform
8. Bromochloromethane
9. 1,1,1-Trichloroethane
10. 1,1-Dichloropropene
11. Carbon tetrachloride
12. 1,2-Dichloroethane
13. Benzene
14. Trichloroethylene
15. 1,2-Dichloropropane
16. Bromodichloromethane
17. Dibromomethane
18. cis-1,3-Dichloropropene
19. Toluene
20. trans-1,3-Dichloropropene
21. 1,1,2-Trichloroethane
22. Tetrachloroethylene
23. 1,3-Dichloropropane
24. Dibromochloromethane
25. 1,2-Dibromoethane
26. Chlorobenzene
27. Ethylbenzene
28. 1,1,1,2-Tetrachloroethane
29. m-Xylene
30. p-Xylene
31. o-Xylene
32. Styrene
33. Bromoform
34. Isopropylbenzene
35. 1,1,2,2-Tetrachloroethane
36. 1,2,3-Trichloropropane
37. Bromobenzene
38. n-Propylbenzene
39. 2-Chlorotoluene
40. 1,3,5-Trimethylbenzene
41. 4-Chlorotoluene
42. tert-Butylbenzene
43. 1,2,4-Trimethylbenzene
44. sec-Butylbenzene
45. p-Isopropyltoluene
46. 1,3-Dichlorobenzene
47. 1,4-Dichlorobenzene
48. n-Butylbenzene
49. 1,2-Dichlorobenzene
50. 1,2-Dibromo-3-chloropropane
51. 1,2,4-Trichlorobenzene
52. Hexachlorobutadiene
53. Naphthalene
54. 1,2,3-Trichlorobenzene

TIC



Column: **VOCOL™, 105m x 0.53mm ID, 1.0µm film**
Oven: 35°C (4 min) to 200°C at 4°C/min
Carrier: helium, 15mL/min
Det.: MS (m/z = 35-260, 0.4 sec/scan)

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SUPELCO
Bellefonte, PA

Analytical Standard Record

EPA Region 9 Laboratory

1717053

Description:	Passive indoor air Surrogate Stock	**Expires:**	10/27/17
Standard Type:	Other Solution	**Prepared:**	04/27/17
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	2	**Department:**	Volatiles
Vials:	1	**Last Edit:**	04/27/17 08:51 by RH
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)
1639097	Toluene-d8	09/22/16	Bob Hopeman	05/31/19	09/22/16 14:33 by RH	0.02

Analytical Standard Record

EPA Region 9 Laboratory

1717054

Description:	Passive indoor air Internal Standard Stock	**Expires:**	10/27/17
Standard Type:	Other Solution	**Prepared:**	04/27/17
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	2	**Department:**	Volatiles
Vials:	1	**Last Edit:**	04/27/17 08:51 by RH
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-Fluorotlouene	09/22/16	** Vendor **	12/31/29	09/22/16 11:46 by RH	0.02

Analytical Standard Record

EPA Region 9 Laboratory

1717055

Description:	Passive air Surrogate/I.S. Working solutio	**Expires:**	10/27/17
Standard Type:	Surrogate Spike	**Prepared:**	04/27/17
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	25	**Department:**	Volatiles
Vials:	1	**Last Edit:**	04/27/17 08:51 by RH
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)
1717054	Passive indoor air Internal Standard Sto	04/27/17	Bob Hopeman	10/27/17	04/27/17 08:51 by RH	0.5
1717053	Passive indoor air Surrogate Stock	04/27/17	Bob Hopeman	10/27/17	04/27/17 08:51 by RH	0.5

Analytical Standard Record

EPA Region 9 Laboratory

1717056

Description:	Passive indoor air stock std 50	**Expires:**	10/27/17
Standard Type:	Analyte Spike	**Prepared:**	04/27/17
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	04/27/17 08:52 by RH
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

1717056

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)
1618022	VOA 502.2 CAL 2000 MEGA MIX, St	04/25/16	** Vendor **	12/31/17	04/25/16 09:38 by YNB	0.25
1717053	Passive indoor air Surrogate Stock	04/27/17	Bob Hopeman	10/27/17	04/27/17 08:51 by RH	0.05

Analytical Standard Record

EPA Region 9 Laboratory

1717057

Description:	Passive indoor air 25	**Expires:**	10/27/17
Standard Type:	Other Solution	**Prepared:**	04/27/17
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	05/09/17 10:01 by ZAR
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
Toluene-d8	2037-26-5	25
Toluene	108-88-3	25
Tetrachloroethene	127-18-4	25

Analytical Standard Record

EPA Region 9 Laboratory

1717057

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	(ml
1717054	Passive indoor air Internal Standard Sto	04/27/17	Bob Hopeman	10/27/17	04/27/17 08:51 by RH	0.0(
1717056	Passive indoor air stock std 50	04/27/17	Bob Hopeman	10/27/17	05/01/17 10:08 by RH	

Analytical Standard Record

EPA Region 9 Laboratory

1717058

Description:	Passive indoor air 10	**Expires:**	10/27/17
Standard Type:	Other Solution	**Prepared:**	04/27/17
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	04/27/17 09:06 by RH
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

1717058

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)
1717054	Passive indoor air Internal Standard Sto	04/27/17	Bob Hopeman	10/27/17	04/27/17 08:51 by RH	0.005
1717056	Passive indoor air stock std 50	04/27/17	Bob Hopeman	10/27/17	04/27/17 09:06 by RH	2

Analytical Standard Record

EPA Region 9 Laboratory

1717059

Description:	Passive indoor air 5	**Expires:**	10/27/17
Standard Type:	Other Solution	**Prepared:**	04/27/17
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	04/27/17 09:06 by RH
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

1717059

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)
1717056	Passive indoor air stock std 50	04/27/17	Bob Hopeman	10/27/17	04/27/17 09:06 by RH	1
1717054	Passive indoor air Internal Standard Sto	04/27/17	Bob Hopeman	10/27/17	04/27/17 08:51 by RH	0.005

Analytical Standard Record

EPA Region 9 Laboratory

1717060

Description:	Passive indoor air 1	**Expires:**	10/27/17
Standard Type:	Other Solution	**Prepared:**	04/27/17
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	04/27/17 09:06 by RH
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

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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)
1717054	Passive indoor air Internal Standard Sto	04/27/17	Bob Hopeman	10/27/17	04/27/17 08:51 by RH	0.005
1717056	Passive indoor air stock std 50	04/27/17	Bob Hopeman	10/27/17	04/27/17 09:06 by RH	0.2

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1717061

Description:	Passive indoor air 0.15	**Expires:**	10/27/17
Standard Type:	Other Solution	**Prepared:**	04/27/17
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	04/27/17 09:06 by RH
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

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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)
1717054	Passive indoor air Internal Standard Sto	04/27/17	Bob Hopeman	10/27/17	04/27/17 08:51 by RH	0.005
1717056	Passive indoor air stock std 50	04/27/17	Bob Hopeman	10/27/17	04/27/17 09:06 by RH	0.03

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1717062

Description:	Passive indoor air 0.05	**Expires:**	10/27/17
Standard Type:	Other Solution	**Prepared:**	04/27/17
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	05/02/17 14:09 by RH
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
Toluene-d8	2037-26-5	0.05
Toluene	108-88-3	0.05
Tetrachloroethene	127-18-4	0.05

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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	(ml
1717054	Passive indoor air Internal Standard Sto	04/27/17	Bob Hopeman	10/27/17	04/27/17 08:51 by RH	0.00
1717056	Passive indoor air stock std 50	04/27/17	Bob Hopeman	10/27/17	05/01/17 10:08 by RH	0.0

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1717064

Description:	Passive indoor air SCV	**Expires:**	10/27/17
Standard Type:	Other Solution	**Prepared:**	04/27/17
Solvent:	CS2	**Prepared By:**	Bob Hopeman
Final Volume (mls):	10	**Department:**	Volatiles
Vials:	1	**Last Edit:**	04/27/17 10:17 by RH
Vendor:	*Prepared*	**Lot Numbe**	1705143

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

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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)
1716096	VOA 502/524 VOC Mix, Stock	04/19/17	** Vendor **	10/27/17	04/27/17 09:06 by RH	0.025
1717055	Passive air Surrogate/I.S. Working solu	04/27/17	Bob Hopeman	10/27/17	04/27/17 08:51 by RH	0.25